



MUFF WIGGLER

Harder, Faster, Stronger

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[Profile](#) [You have no new messages](#) [Log out](#) [Tombola]

Information



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[PROJECT] Music Thing Spring Reverb

[newtopic](#) [postreply](#)

MUFF WIGGLER Forum Index -> Music Tech DIY

Author

[PROJECT] Music Thing Spring Reverb

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

 Posts: 1322
Location: London, England

□ Posted: Sat Oct 26, 2013 2:33 am Post subject: [PROJECT] Music Thing Spring Reverb

The Music Thing Spring Reverb is a flexible, easy-to-build voltage controlled 6HP mono spring reverb module.

- Works with a variety of spring reverb tanks (including the A199 mini tank), or with the Accutronics BTDR-2 reverb "brick"™ designed
- Two cheap PCB panel designs - one with front panel sockets for the reverb tank
- Vactrol crossfade between dry and wet
- Tilt EQ on the reverb send to tune the voice of the reverb
- X-Fade input so the module can also be used as a standalone vactrol crossfader (crossfade demo video)
- Attenuverter on the crossfade CV input

All the details are on the [Music Thing Spring Reverb Project Page](#) including:

- Big instruction & build manual that will answer all your questions (PDF)
- Schematic (PDF)
- Eagle and Gerber files, front panel specifications, a Mouser BOM etc

THONK will be offering PCBs and panels

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Last edited by Tombola on Mon Oct 28, 2013 3:53 pm; edited 4 times in total

[Back to top](#)

[profile](#) [pm](#)

waveglider
Ultra Wiggler



Joined: 28 Feb 2013
Last Visit: 22 Jan 2015

 Posts: 751
Location: Oakland

□ Posted: Sat Oct 26, 2013 2:44 am Post subject:

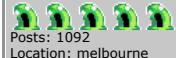
Excellent 

nice redesign on your site too!

[My Modular](#) | [My Audio](#)

[Back to top](#)[profile](#)[pm](#)**diablojoy**

Super Deluxe Wiggler

Joined: 22 Jan 2010
Last Visit: 07 Jan 2015

Posts: 1092

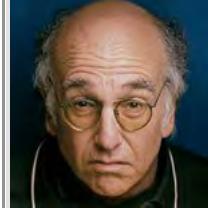
Location: melbourne

[Back to top](#)[Posted: Sat Oct 26, 2013 3:00 am](#) Post subject:

orsm tom

I actually have a few reverb bricks sitting in my parts bin
might just have to try this out.[Back to top](#)[profile](#)[pm](#)**Isaiah**

Super Deluxe Wiggler

Joined: 02 Jun 2010
Last Visit: 22 Jan 2015

Posts: 1295

[Posted: Sat Oct 26, 2013 3:28 am](#) Post subject:

Excellent work, Tom!

I only discovered this project earlier in the week and it's the perfect final piece in my modular puzzle.

A few questions:

Is the small blue reverb tank shown in the build document available yet?
Could you share details please?The panel documents show the co-ordinates and diameters of all the panel-mounted components.
Could you tell me the co-ordinates of the PCB mounting holes relative to these please?
I'd like to mount the PCB sandwich parallel to the panel but using stand-offs.

Do you know if Thonk will be keeping stock of the Spring PCBs, like your Turing Machine?

Thanks for making this project available!

Wedding Sale! UK/EU

Moog MF-103

PCB Backlog

[Back to top](#)[profile](#)[pm](#)**Tombola**

Super Deluxe Wiggler

[Posted: Sat Oct 26, 2013 4:19 am](#) Post subject:**Isaiah wrote:**Is the small blue reverb tank shown in the build document available yet?
Could you share details please?It's on the Accutronics site: http://www.accutronicsreverb.com/main/?skin=sub01_08.html
I think they'll sell direct and they're looking for retailers.**Isaiah wrote:**The panel documents show the co-ordinates and diameters of all the panel-mounted components.
Could you tell me the co-ordinates of the PCB mounting holes relative to these please?
I'd like to mount the PCB sandwich parallel to the panel but using stand-offs.Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322

Location: London, England

Sorry, I don't have that information - I'd have to go back to the Eagle files and do a bit of maths.

Isaiah wrote:

Do you know if Thonk will be keeping stock of the Spring PCBs, like your Turing Machine?

I can't speak for Steven, but I think that's what he's planning.

<http://musicthing.co.uk/modular/>**The Music Thing Module Generator®**[Back to top](#)[profile](#)[pm](#)**Tombola**

Super Deluxe Wiggler

[Posted: Sat Oct 26, 2013 4:21 am](#) Post subject:

Here's a video showing the crossfade mode; mixing between Fold and Square outputs from a DPO

<http://musicthing.co.uk/modular/>**The Music Thing Module Generator®**Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322

Location: London, England

[Back to top](#)[profile](#) [pm](#)**mystica**
4 million volt wiggler

Posted: Sat Oct 26, 2013 4:26 am Post subject:

all the demos sound absolutely fantastic. very keen for this, the crossfader functionality is a great bonus too. nice work

Joined: 13 Jul 2011
Last Visit: 27 Dec 2014

Posts: 621

[Back to top](#)[profile](#) [pm](#)**regenbot**
Super Deluxe Wiggler

Posted: Sat Oct 26, 2013 4:43 am Post subject:

perfect

sounds
drawings
free musicJoined: 21 Aug 2010
Last Visit: 22 Jan 2015 Posts: 1029
Location: Finland[Back to top](#)[profile](#) [pm](#)**Spip**
Common WigglerJoined: 19 Jun 2013
Last Visit: 01 Jan 2015

Posts: 159

Posted: Sat Oct 26, 2013 5:01 am Post subject:

Really nice

Is it possible to buy the PCBs ? Will you make them or someone else, maybe ?

[Back to top](#)[profile](#) [pm](#)**Spip**
Common WigglerJoined: 19 Jun 2013
Last Visit: 01 Jan 2015

Posts: 159

Posted: Sat Oct 26, 2013 6:10 am Post subject:

After a quick look at the BOM, I don't see the vactrols Silonex 32SR3 and VTL5C3 in the list ?
Am I missing something ?

I already have almost all the other parts though !

[Back to top](#)[profile](#) [pm](#)**Tombola**
Super Deluxe Wiggler

Posted: Sat Oct 26, 2013 6:22 am Post subject:

Spip wrote:After a quick look at the BOM, I don't see the vactrols Silonex 32SR3 and VTL5C3 in the list ?
Am I missing something ?

I already have almost all the other parts though !

Sorry, Mouser don't sell vactrols at all (or any LDRs). You can get VTL5C3s from Thonk or the Silonex from Farnell.

If you have the choice and you're going to the the x-fade mode at all, I'd choose the VTL5C3 - it's smoother and slower response.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Last edited by Tombola on Sat Oct 26, 2013 6:44 am; edited 2 times in total

[Back to top](#)[profile](#) [pm](#)**Monobass**
thonk.co.uk

Posted: Sat Oct 26, 2013 6:32 am Post subject:



Music
Thing
Modular

Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

SPRING REVERB

WWW.THONK.CO.UK

WWW.MUSICTHING.CO.UK

THONK
MUSIC THING
WWW.THONK.CO.UK



Option A - Spring Tank RCA Phono sockets on rear.

Depth - 42.5mm, allow **56mm** using typical right-angled phono plug.



Option B - Spring Tank RCA Phono sockets on front.

Depth - 39mm without digital brick
41mm with horizontal brick (as above)
55mm with vertical brick

As well as purchasing the module kit from **Thonk** you also need to buy a **spring tank** or **Accutronics digital brick** (or both!) from eBay, Amazon, SmallBear, Banzai, Mammoth, HotRox.



Recommended Analogue tanks

Accutronics 9EB2C1B
Belton BMN3BB2C1B (Doepfer A-199)

Recommended Digital Bricks

Accutronics BTDR-2H
Accutronics BTDR-2V

I've made PCB and parts orders for kits so its all well underway.

Will have 4 panel options.

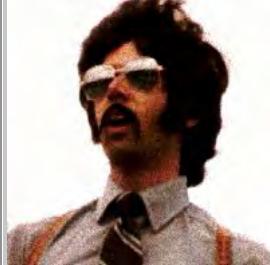
Aluminium panel - Tank connection on front
Aluminium panel - Tank connection on back
Low cost PCB panel - Tank connection on front
Low cost PCB panel - Tank connection on back

Thonk - Modular Synth DIY + Eurorack Accessories Store

Last edited by Monobass on Tue Nov 26, 2013 12:18 pm; edited 2 times in total

[Back to top](#)

rosch
roadkill



Joined: 23 Dec 2010
Last Visit: 07 Jan 2015

Posts: 627
Location: doucheland

Posted: Sat Oct 26, 2013 6:53 am Post subject:

this is cool! so i can also use the bricks!
just perfect to build more than one 😊

[Back to top](#)

Isaiah
Super Deluxe Wiggler



Joined: 02 Jun 2010
Last Visit: 22 Jan 2015

Posts: 1295

Posted: Sat Oct 26, 2013 7:21 am Post subject:

Monobass



Will you also stock just the PCBs?

Wedding Sale! UK/EU
Moog MF-103
PCB Backlog

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287

Posted: Sat Oct 26, 2013 8:37 am Post subject:

Yup 😊

Thonk - Modular Synth DIY + Eurorack Accessories Store

Location: Brighton, UK

[Back to top](#)

Spir

Common Wiggler

Joined: 19 Jun 2013
Last Visit: 01 Jan 2015



Posts: 159

□ Posted: Sat Oct 26, 2013 8:44 am Post subject:

@Tombola : Thanks. It seems that Thonk will also sell the PCBs. That's handy.

@Monobass : I don't see them on your site. Any idea of the prices for just the PCBs (and some vactrols).

[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

□ Posted: Sat Oct 26, 2013 8:46 am Post subject:

It'll be 3-4 weeks until they're in stock. Will have prices a day or so before they are in stock.

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

Spir

Common Wiggler

Joined: 19 Jun 2013
Last Visit: 01 Jan 2015



Posts: 159

□ Posted: Sat Oct 26, 2013 9:00 am Post subject:

Ok. Thanks !

[Back to top](#)

jasonh23

Learning to Wiggle

Joined: 21 Jul 2013
Last Visit: 29 Nov 2013



Posts: 38

□ Posted: Sat Oct 26, 2013 10:41 am Post subject:

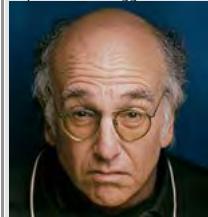


Sounds fantastic!

[Back to top](#)

Isaiah

Super Deluxe Wiggler



Joined: 02 Jun 2010
Last Visit: 22 Jan 2015



Posts: 1295

□ Posted: Sat Oct 26, 2013 12:26 pm Post subject:

Tombola

Thanks for all the information
I'm looking forward to using this!

Tombola wrote:

Isaiah wrote:

The panel documents show the co-ordinates and diameters of all the panel-mounted components.
Could you tell me the co-ordinates of the PCB mounting holes relative to these please?
I'd like to mount the PCB sandwich parallel to the panel but using stand-offs.

Sorry, I don't have that information - I'd have to go back to the Eagle files and do a bit of maths.

If there's any chance somebody could check the files I would be most grateful.

Thanks!

Wedding Sale! UK/EU
Moog MF-103
PCB Backlog

[Back to top](#)

Thinksyncopated
Common Wiggler

Joined: 15 Jul 2013
Last Visit: 23 Sep 2014

Monobass wrote:



Posts: 167

It'll be 3-4 weeks until they're in stock. Will have prices a day or so before they are in stock.

Cool! I'll be in for it for sure. Have an A-199 but want the CV features in this.

[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

□ Posted: Sat Oct 26, 2013 3:00 pm Post subject:

It leaves the 199 in the dust of its wake 😊

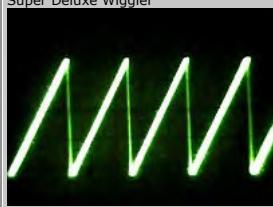
It makes the 199 tank sound hi-fi too 🎵

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[Back to top](#)

logicgate

Super Deluxe Wiggler



Joined: 30 May 2012
Last Visit: 29 Dec 2014



Posts: 1429

Location: Paranoid City

□ Posted: Sat Oct 26, 2013 4:14 pm Post subject:

are you storing the tanks too, mate? I mean, they will be in the kit?

[Back to top](#)

Thinksyncopated

Common Wiggler

Joined: 15 Jul 2013
Last Visit: 23 Sep 2014



Posts: 167

□ Posted: Sat Oct 26, 2013 6:29 pm Post subject:

Monobass wrote:

It leaves the 199 in the dust of its wake 😊

It makes the 199 tank sound hi-fi too 🎵

Haha in what sense do you mean that? (Re: making the 199 tank sound hifi)

[Back to top](#)

Tombola

Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

□ Posted: Sat Oct 26, 2013 6:50 pm Post subject:

Thinksyncopated wrote:

Monobass wrote:

It makes the 199 tank sound hi-fi too 🎵

Haha in what sense do you mean that? (Re: making the 199 tank sound hifi)

I think he means that you can plug the reverb tank from a A199 into the Music Thing module, and you'll get a cleaner, sharper, more bass,

I haven't been able to try it myself, but the intention of this module is to provide a warm, deep, clear reverb which can then be messed up

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

falafelbiels

still learning to wiggle

□ Posted: Sat Oct 26, 2013 8:28 pm Post subject:

I love it already...



Joined: 04 Aug 2009
Last Visit: 07 Jan 2015

Posts: 3552
Location: Rotterdam, son

[Back to top](#)

[profile](#) [pm](#)

Spandex
Lovely cloakroom, lovely cloaks



Joined: 16 Oct 2011
Last Visit: 15 Dec 2014

Posts: 257
Location: Nottingham, UK

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Posted: Sun Oct 27, 2013 1:48 am Post subject:](#)

logicgate wrote:

are you storing the tanks too, mate? I mean, they will be in the kit?

Not for the first run as they are very easily available elsewhere and I'll be focussing on Frontpanel, component and PCB inventory.

From the manual:

Tombola wrote:

4a: Which Tank?

Short version: If you're buying a new tank, I'd recommend one of these fairly common models:

Accutronics 9EB2C1B A big 17" long reverb tank with six springs.

Accutronics 8EB2C1B A smaller 10" version with three springs. This is the tank from a Fender Blues Junior amp, so is very common.

Other makes with the same number (i.e. MOD 8EB2C1B) will work in the same way. The Ruby 3EB2C1B also looks nice.

I bought the 9EB2C1B from hotroxuk and it sounds and works great (came 2 days after order too).

UK - <http://www.hotroxuk.com/accutronics-reverb-tank-17-long-9eb2c1b.html>

USA - <http://www.amazon.com/Accutronics-9EB2C1B-Reverb-Tank/dp/B0043FN4A6>

Germany - <http://www.banzaimusic.com/Accutronics-9EB2C1B.html>

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

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monno
Learning to Wiggle

Joined: 02 Feb 2013
Last Visit: 06 Jan 2015

Posts: 31
Location: Denmark

[Posted: Sun Oct 27, 2013 4:43 am Post subject:](#)

I am a sucker for all things spring reverb and was planning on adding the Doepfer module to my collection. It's obviously taken a backseat looking forward to building it!

[Back to top](#)

[profile](#) [pm](#)

Karl_Joseph
Wiggling with Experience

Joined: 08 Oct 2012

Tombola wrote:

Last Visit: 05 Jan 2015



Posts: 412

Location: Minneapolis

The Music Thing Spring Reverb is a flexible, easy-to-build voltage controlled 6HP DIY mono spring reverb module.
- Works with a variety of spring reverb tanks (including the A199 mini tank), or with the Accutronics BTDR-2 reverb "brick" designed by
- Two cheap PCB panel designs - one with front panel sockets for the reverb tank
- Vactrol crossfade between dry and wet
- Tilt EQ on the reverb send to tune the voice of the reverb
- X-Fade input so the module can also be used as a standalone vactrol crossfader (crossfade demo)
- Attenuverter on the crossfade CV input

All the details are on the Music Thing Spring Reverb Project Page including:
- Big instruction & build manual that will answer all your questions (PDF)
- Schematic (PDF)
- Eagle and Gerber files, front panel specifications, a Mouser BOM etc

THONK will be offering PCBs and panels

Which tank did you use for this demo? It's the one I want! sounds amazing!!!

- KARL

[Back to top](#)

[profile](#) [pm](#)

Tombola
Super Deluxe Wiggler



□ Posted: Sun Oct 27, 2013 2:41 pm Post subject:

Thanks Karl_Joseph, the demo video is a 9EB2C1B sitting on top of my low cost case - there's a little bit of audible hum in the demo that is further from the transformer.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

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paul_exp
Common Wiggler

□ Posted: Sun Oct 27, 2013 2:54 pm Post subject:

Are there demos of the delay chip brick? And @thonk - will you be selling those?

Either way, very excited about this...

[Back to top](#)

[profile](#) [pm](#)

bartleby
Veteran Wiggler

□ Posted: Sun Oct 27, 2013 2:57 pm Post subject:

paul_exp wrote:

Are there demos of the delay chip brick?

yeah, i was wondering about that, too.

wtb (eu): dixie, doepfer a-133, es disting, ryk m185.

[Back to top](#)

[profile](#) [pm](#)

Monobass
thonk.co.uk



□ Posted: Sun Oct 27, 2013 3:04 pm Post subject:

I actually just ordered one of the bricks to test.

I won't be stocking these initially either, again like the springs they are really easy to pick up from big web stores and ebay. I'd rather focus now. This could change with later runs.

Thonk - Modular Synth DIY + Eurorack Accessories Store

Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

[Back to top](#)

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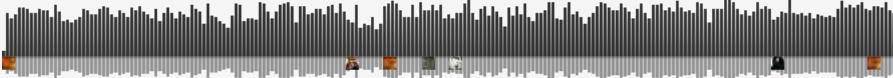
Tombola
Super Deluxe Wiggler

□ Posted: Sun Oct 27, 2013 3:30 pm Post subject:

Here's a demo of the spring compared with the brick:



MusicThing
Real Spring Reverb vs Belton BTDR-2H



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

clusterchord

Veteran Wiggler



Joined: 07 Sep 2010
Last Visit: 07 Jan 2015



Posts: 729
Location: Zagreb, Croatia

Posted: Sun Oct 27, 2013 11:50 pm Post subject:

i see one can order the reverb TYPE 9 with specified input and output impedance on accutronics site..

DIGIT #2 - INPUT IMPEDANCE
A = 10 Ohm
B = 190 Ohm
C = 240 Ohm
D = 310 Ohm
E = 800 Ohm
F = 1925 Ohm

DIGIT #3 - OUTPUT IMPEDANCE
A = 600 Ohm
B = 2575 Ohm
C = 12000 Ohm

could someone tell me what impedances should i select if i want to:

- integrate into euro modular, and use with the Music Thing module ?
- make a standalone studio device with neutrik XLRs and some electronic balancing de-balancing (5534 for example) ?

they also offer different specified decay times... i gather they are made different, not changeable by the user..

by the way, has anyone of you spring reverb aficionados experimented with splitting the signal into freq ranges via crossover, feeding two or more springs? Fairchild did (allegedly) ?

seems it allows the high freq response to sound more naturally without being so disturbed with rumbling of the spring for lower freq - sorta compression... .

thanks

rgrds
tom

www.babic.com
nimbus dei @ myspace

euro: 109615 109627

WTB: Dixie v1 - Mungo w0 - stg com

FS: MN Echophon - Waldorf Microwave - Maxon PT9 Pro+ phaser - polyDAC midi PCB 5U

[Back to top](#)

paul_exp

Common Wiggler

Joined: 11 Oct 2012
Last Visit: 15 Sep 2014



Posts: 152

Posted: Mon Oct 28, 2013 3:30 am Post subject:

Thanks for the brick demo tom. It's very cool, and now I'm torn as to which to get... Both sound cool in their own way...

[Back to top](#)

Tombola

Super Deluxe Wiggler

Posted: Mon Oct 28, 2013 4:15 am Post subject:

paul_exp wrote:

Thanks for the brick demo tom. It's very cool, and now I'm torn as to which to get... Both sound cool in their own way...



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

You can make it switchable - build both parts of the circuit and attach a SPDT on/none/on switch to the jumper. If you did a rear-mounted in one of the holes on the 6-socket panel, use the other for a 100% wet or dry EQ output

Theres a little bit of space there:



ps: I've moved the logos and labels around a little for the published panels, and if you ask Seeed studio they'll put the serial number on the

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Last edited by Tombola on Mon Oct 28, 2013 4:33 am; edited 1 time in total

[Back to top](#)

Tombola
Super Deluxe Wiggler

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

D Posted: Mon Oct 28, 2013 4:25 am Post subject:
clusterchord wrote:

i see one can order the reverb TYPE 9 with specified input and output impedance on accutronics site..

DIGIT #2 - INPUT IMPEDANCE

A = 10 Ohm
B = 190 Ohm
C = 240 Ohm
D = 310 Ohm
E = 800 Ohm
F = 1925 Ohm

DIGIT #3 - OUTPUT IMPEDANCE

A = 600 Ohm
B = 2575 Ohm
C = 12000 Ohm

could someone tell me what impedances should i select if i want to:

- a) integrate into euro modular, and use with the Music Thing module ?

A 9EB2C1B is 800 Ohm input (E) and 2575 Ohm output (B)

clusterchord wrote:

- b) make a standalone studio device with neutrik XLRs and some electronic balancing de-balancing (5534 for example) ?

I don't know how you'd do that. You might look at the Zerotronics passive system: <http://zerotronics.com/coolSprings/index.html> - transform to integrate with line-in / mic-out. SPENDY!

clusterchord wrote:

by the way, has anyone of you spring reverb aficionados experimented with splitting the signal into freq ranges via crossover, feeding two or Fairchild did (allegedly) ?

seems it allows the high freq response to sound more naturally without being so disturbed with rumbling of the spring for lower freq - sorta v for compression... .

The 'tilt' control on this module is cruder solution to the same problem - it's flat at 12 o'clock, at 5 o'clock it fairly smoothly boosts frequency, at 0'o'clock it does the opposite, cutting above 1khz, boosting below.

The EQ only acts on the reverb send - has no effect on the dry output.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

Nantonos
Super Deluxe Wiggler

Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

D Posted: Mon Oct 28, 2013 5:33 am Post subject:
clusterchord wrote:

- b) make a standalone studio device with neutrik XLRs and some electronic balancing de-balancing (5534 for example) ?

If you wanted to run balanced lines to and from the modular to a reverb, it would be better to have the reverb drive circuit after debalancing (at least some of) the recovery circuit close to the reverb too, to boost the very small signal and avoid hum pickup, before converting to balanced.

In which case, the input and output impedances would be isolated from the balancing/debalancing circuitry anyway.

Rather than hack something up with opamps, there are dedicated chips for the task, such as THAT 1646 line driver (datasheet) and THAT 1647. These will give you a high common mode rejection, low noise and low distortion.

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

rosch
roadkill

D Posted: Mon Oct 28, 2013 11:45 am Post subject:

thanks for that cool project. just ordered my tank from banzai



Joined: 23 Dec 2010
Last Visit: 07 Jan 2015



Posts: 627
Location: doucheland

[Back to top](#)

bartleby
Veteran Wiggler

Joined: 20 Oct 2010
Last Visit: 21 Jan 2015



Posts: 738
Location: berlin

Tombola wrote:

You can make it switchable - build both parts of the circuit and attach a SPDT on/none/on switch to the jumper.

very cool!

i love the sound of my two a199 with chinese accutronics 8bb3c1b clones - but the cv crossfade makes this much cooler! looking forward to

wtb (eu): dixie, doepfer a-133, es disting, ryk m185.

[Back to top](#)

harolddonnelly
Veteran Wiggler

Joined: 13 Mar 2009
Last Visit: 02 Jan 2015



Posts: 521
Location: Vancouver, BC

Thanks for this project, just one quick question, I apologize if it has been covered already.

Is the CV control input, for the control of Wet and Dry or the Reverb Amount?

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

CV is for the wet dry

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[Back to top](#)

harolddonnelly
Veteran Wiggler

Joined: 13 Mar 2009
Last Visit: 02 Jan 2015

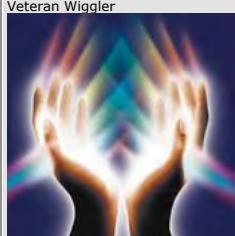


Posts: 521
Location: Vancouver, BC

Great thanks!

[Back to top](#)

Stab Frenzy
Veteran Wiggler



Joined: 03 Mar 2010
Last Visit: 22 Jan 2015



Posts: 545
Location: Melbourne

[Back to top](#)

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parasitk
I Play Loco Gigs



Joined: 15 May 2008
Last Visit: 15 Jun 2014

Posts: 4848
Location: Los Angeles

[Back to top](#)

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jgb
Wiggling with Experience



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015

Posts: 313
Location: Göteborg, Sweden

[Back to top](#)

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BBlack
Wiggling with Experience

Joined: 10 Nov 2012
Last Visit: 31 Oct 2014

Posts: 316

□ Posted: Tue Oct 29, 2013 9:27 am Post subject:

Hey, cool!

I'm in the market currently for a spring verb module, this might fit the bill... Been looking at CGS's kit, and of course the Neural Agonizer, b
Accutronics tank laying around..

Hoping for 15V capability... going to search.

[Back to top](#)

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4130photo
Wiggling with Experience



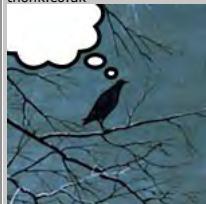
Joined: 27 Nov 2012
Last Visit: 01 Jan 2015

Posts: 462
Location: Bonn / Germany

[Back to top](#)

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Monobass
thonk.co.uk



□ Posted: Wed Oct 30, 2013 3:12 pm Post subject:

This is a really nice project to solder, really well laid out with plenty of room.

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Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

[Back to top](#)

Karl_Joseph

Wiggling with Experience

Posted: Wed Oct 30, 2013 10:07 pm Post subject:

I check this thread daily in anticipation.

- KARL

Joined: 08 Oct 2012

Last Visit: 05 Jan 2015



Posts: 412

Location: Minneapolis

[Back to top](#)

Baszline

Common Wigglar



Joined: 26 Dec 2010

Last Visit: 06 Jan 2015



Posts: 170

Location: The Netherlands

Posted: Thu Oct 31, 2013 7:55 am Post subject:

I'm looking forward to build the spring reverb module!! 😊

I'm wondering what kind of spring reverbs you can use for this project. Banzai offers a lot of them and can't really figure out which ones are etc)

I can't fit in the 17" reverb tank (Accutronics 9EB2C1B) and don't want to go for the digital one (BTDR-2).

Now I've found a 9.25" one which will fit my modular case nicely but am wondering if this one is ok to use. It seems to have the same spec looking right. 🤔

<http://www.banzaimusic.com/Accutronics-8EB2C1B.html>

Hooked on hardware

<https://soundcloud.com/colophonrecords>

<http://www.arp2600.nl>

[Back to top](#)

Monobass

thonk.co.uk



Posted: Thu Oct 31, 2013 8:14 am Post subject:

8EB2C1B - It's the same impedance so I think it'll be just as good 😊

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Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

[Back to top](#)

Monobass

thonk.co.uk



Posted: Thu Oct 31, 2013 8:38 am Post subject:

Karl_Joseph wrote:

I check this thread daily in anticipation.

the box is filling!

Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK



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[Back to top](#)

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Baszline

Common Wiggler



Joined: 26 Dec 2010
Last Visit: 06 Jan 2015



Posts: 170
Location: The Netherlands

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[posted](#): Thu Oct 31, 2013 8:43 am Post subject:



Hooked on hardware

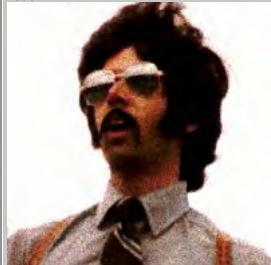
<https://soundcloud.com/colophonrecords>

<http://www.arp2600.nl>

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rosch

roadkill



Joined: 23 Dec 2010
Last Visit: 07 Jan 2015



Posts: 627
Location: doucheland

[Back to top](#)

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xahdrez

Common Wiggler



Joined: 03 Apr 2013
Last Visit: 07 Jan 2015



Posts: 141
Location: London

[Back to top](#)

[profile](#) [pm](#)

BBlack

Wiggling with Experience

Joined: 10 Nov 2012
Last Visit: 31 Oct 2014

[posted](#): Thu Oct 31, 2013 10:13 am Post subject:

Any word of +/-15v compatibility?



Posts: 316

[Back to top](#)

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ootini

Ultra Wiggler



Posted: Thu Oct 31, 2013 10:34 am Post subject:

i'm gonna take the plunge with this!

is there any merit to wiring 2 spring tanks up to this? is the input/output impedance calculation a simple matter of adding impedances? could used to dial in the final reverb sound?

<http://furtherrecords.org/album/sample-hold>

Joined: 23 Mar 2010

Last Visit: 07 Jan 2015



Posts: 829

Location: Dublin, Ireland

[Back to top](#)

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Waz

Wiggling with Scurvy



Posted: Thu Oct 31, 2013 3:08 pm Post subject:

Can I get on some kind of list for the 1st run of these? I'd like a front mount panel one!

Joined: 02 Mar 2009

Last Visit: 07 Jan 2015



Posts: 2548

Location: Detroit

[Back to top](#)

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parasitk

I Play Loco Gigs



Posted: Thu Oct 31, 2013 3:10 pm Post subject:

BBlack wrote:

Any word of +/-15v compatibility?

[I, Parasite | Synth fuckery on Soundcloud](#)

dkcg wrote:

But in the end, it felt like I was playing WiiSoundMasterJedi.

Joined: 15 May 2008

Last Visit: 15 Jun 2014



Posts: 4848

Location: Los Angeles

[Back to top](#)

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diabolojoy

Super Deluxe Wiggler

Joined: 22 Jan 2010

Last Visit: 07 Jan 2015



Posts: 1092

Location: melbourne

Posted: Thu Oct 31, 2013 3:36 pm Post subject:

for those that are looking for the BTDR-2 bricks

<http://www.smallbearlec.com/servlet/Detail?no=1211>

[Back to top](#)

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Monobass

thonk.co.uk

Posted: Thu Oct 31, 2013 4:22 pm Post subject:

I might try and power on 15v this weekend, it shouldn't catch fire 😊 there might be some gain balancing issues.

I'll create a product page with a wishlist option next week. There should be two runs before xmas.



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

NorthernLightX
Common Wiggler

Joined: 23 Sep 2012
Last Visit: 04 Nov 2014

Posts: 78
Location: Nederland

[Back to top](#)

Monobass
thonk.co.uk

Joined: 29 May 2009

Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Joined: 29 May 2009

Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

paperCUT
Wiggling with Experience

Looks fantastic, I'm sold! Looks like you could also squeeze a small toggle switch above the main wet/dry knob to select between the brick

You'd be crazy to build this and not add the brick since everything except a switch is on board. Great design 😊

Latest track <https://soundcloud.com/tensiontype/alien-traitor>

Joined: 12 Mar 2011
Last Visit: 02 Jan 2015

Posts: 389
Location: Frankfurt

[Back to top](#)

Monobass
thonk.co.uk

Joined: 29 May 2009

Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Something like a 4hp expander with a panel mounted switch and feedback options would actually be a relatively straightforward thing I think

New image of main module -

Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

SPRING REVERB



**Music
Thing
Modular**



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Last edited by Monobass on Wed Nov 20, 2013 6:32 am; edited 1 time in total

[Back to top](#)

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a100user
All the gear, no idea!



Joined: 13 Mar 2008
Last Visit: 08 Jan 2015

Posts: 2811
Location: Southern England

Posted: Fri Nov 01, 2013 10:52 am Post subject:

Monobass wrote:

I might try and power on 15v this weekend, it shouldn't catch fire 😊 there might be some gain balancing issues.
I'll create a product page with a wishlist option next week. There should be two runs before xmas.

Thanks Steve I'm really interested in the results so my Bug can be sprung 😊

[Back to top](#)

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Karl_Joseph
Wiggling with Experience

Joined: 08 Oct 2012
Last Visit: 05 Jan 2015

Posts: 412
Location: Minneapolis

Posted: Fri Nov 01, 2013 10:54 am Post subject:

Monobass wrote:

Karl_Joseph wrote:
I check this thread daily in anticipation.

the box is filling!



I want some ! ! !

- KARL

[Back to top](#)

a100user
All the gear, no idea!



Joined: 13 Mar 2008
Last Visit: 08 Jan 2015


Posts: 2811
Location: Southern England

Posted: Fri Nov 01, 2013 2:44 pm Post subject:

Out of interest Steve, will you have kits ready for Brighton?

If the 15V test works out I'd like to get on this ASAP.

Thanks

David

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015


Posts: 8287
Location: Brighton, UK

Posted: Fri Nov 01, 2013 3:02 pm Post subject:

It's certainly not impossible 😊 I think the Aluminium panels might be a stretch for then but I'm guessing you won't need one for your bug!

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[Back to top](#)

Nantonos
Super Deluxe Wiggle

Posted: Fri Nov 01, 2013 4:45 pm Post subject:

I'm curious about this comment in the documentation:

Quote:

Unfortunately, I had little luck with the 5532 in the critical spring recovery circuit, where the lower noise would be helpful.



what was wrong with it in that position?

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

 Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

a100user

All the gear, no idea!



Joined: 13 Mar 2008
Last Visit: 08 Jan 2015

     Posts: 2811
Location: Southern England

[Back to top](#)

Tombola

Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

   Posts: 1322
Location: London, England

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[Back to top](#)

Nantonos

Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

 Posts: 1024
Location: Côte d'Azur, France

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

Tombola

Super Deluxe Wiggler

   Posted: Sun Nov 03, 2013 1:26 pm Post subject:

Nantonos wrote:

Tombola wrote:

emory, it didn't work at all well, I think it needs the high impedance FET input stage on a TL07*



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015
 Posts: 1322
Location: London, England

Thanks. That makes sense; the 5532 datasheet gives an input impedance of 300k (typ) 30k(!) min and seems to be optimised for very low output impedance sources, and drives low (600R) impedance loads. On the other hand, the 5532 has a noise of 5nV/vHz for TL072.

While the reverb tank has pretty high output impedance (2k575 for the Type 9 "B"). So you are picking up a low level signal from

Perhaps the OPA2227PA (input impedance 10M, noise 3nV/vHz) would work well here? Its lower input impedance than 072 but higher noise than either.

I notice that the other half is used for the reverb drive, I don't know if that has particular requirements like high current output. I guess there aren't any particular issues there.

I was tempted to build the spring section with single op amps to allow endless rolling, but decided it was probably a niche interest... I did experiment with a OPA551 drive chip, recommended by Roy Mallory, but in the end I couldn't hear a difference, and it's £4 vs 40p...

<http://musicthing.co.uk/modular/>

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[Back to top](#)

Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

 Posts: 1024
Location: Côte d'Azur, France

Posted: Sun Nov 03, 2013 5:29 pm Post subject:

Tombola wrote:

Nantonos wrote:

Perhaps the OPA2227PA (input impedance 10M, noise 3nV/vHz) would work well here? Its lower input impedance than 072 but higher noise than either.

I was tempted to build the spring section with single op amps to allow endless rolling, but decided it was probably a niche interest...

The OPA2227PA is a dual, with the identical pinout to the 072.

Tombola wrote:

I did experiment with a OPA551 drive chip, recommended by Roy Mallory, but in the end I couldn't hear a difference, and it's £4 vs 40p...

In the same circuit? You wouldn't, as that circuit takes no advantage of the high voltage ($\pm 30V$) and high current (200mA) capabilities. All specs (15nV/vHz, very similar to the 072 18nV/vHz).

[ondes](#) | [current rack](#)

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

jgb
Wiggling with Experience



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015

 Posts: 313
Location: Göteborg, Sweden

Posted: Mon Nov 04, 2013 5:11 am Post subject:

Is it possible to change the impedance to accommodate other tanks than the recommended ones?

Taking care of 99musik.se since 2002 | Dub techno/techno/acid | Misc/modular | Modular

[Back to top](#)

Tombola
Super Deluxe Wiggler



Posted: Mon Nov 04, 2013 5:53 am Post subject:

jgb wrote:

Is it possible to change the impedance to accommodate other tanks than the recommended ones?

It may be - I don't have any to test

On the input side - as it says in the documentation, lower impedance may be hard to drive with a tl072, higher impedance should work ok, trimmer.

On the output side, I didn't have any different tanks to test at all - you'd have to experiment with R4 and R6 - perhaps replace R6 with a 10k

Please report back any findings!

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

 Posts: 1322
Location: London, England

<http://musicthing.co.uk/modular/>

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[Back to top](#)

jgb
Wiggling with Experience



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015



Posts: 313
Location: Göteborg, Sweden

Posted: Mon Nov 04, 2013 6:01 am Post subject:

Tombola wrote:

jgb wrote:

Is it possible to change the impedance to accommodate other tanks than the recommended ones?

It may be - I don't have any to test

On the input side - as it says in the documentation, lower impedance may be hard to drive with a tl072, higher impedance should 100k vs 10k trimmer.

On the output side, I didn't have any different tanks to test at all - you'd have to experiment with R4 and R6 - perhaps replace R6

Please report back any findings!

If a TL072 cannot drive the tank, could it be replaced with another pin equivalent op amp? I assume there are others that can deliver more
<https://www.google.de/search?q=tl072+equivalent> gives quite a few suggestions.

Will hopefully be able to try this later and report on the results!

Taking care of 99musik.se since 2002 | Dub techno/techno/acid | Misc/modular | Modular

[Back to top](#)

mush
Common Wiggler



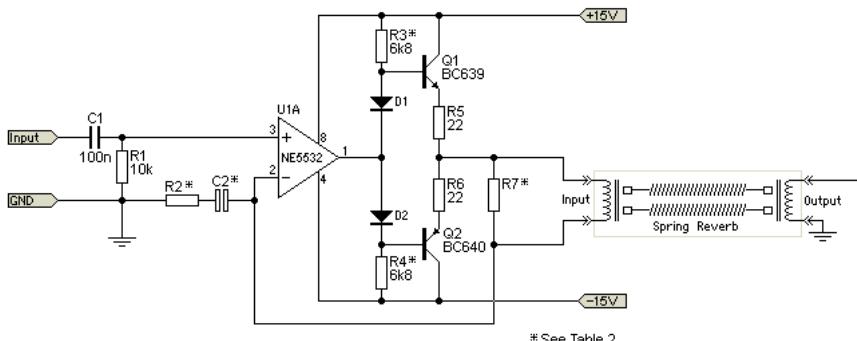
Joined: 28 Sep 2010
Last Visit: 08 Jan 2015



Posts: 167
Location: Copenhagen, Denmark

Posted: Mon Nov 04, 2013 6:07 am Post subject:

I've used this circuit for AB tanks with great success. I've never managed to get Tom's to work with 8 ohm or 10 ohm tanks.



<http://sound.westhost.com/articles/reverb.htm>

[Back to top](#)

Tombola
Super Deluxe Wiggler



Posted: Mon Nov 04, 2013 6:38 am Post subject:

@mush - that seems right, I tried that circuit with 150/800 ohm tanks and it was OK, but no better than the single TL07*. For lower impedance transistors must be essential

This module design is very modular - you could replace the rear PCB with a little drive/recover circuit (& power inlet) built on perfboard, an knobs etc. There is a 5 pin connection between the front & rear boards that gives +12v, -12v, GND, send and return.

<http://musicthing.co.uk/modular/>

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Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

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craigwilliamsmusic
Common Wiggler



Joined: 28 Feb 2013
Last Visit: 18 Dec 2014



Posts: 57

[Back to top](#)

[profile](#) [pm](#)

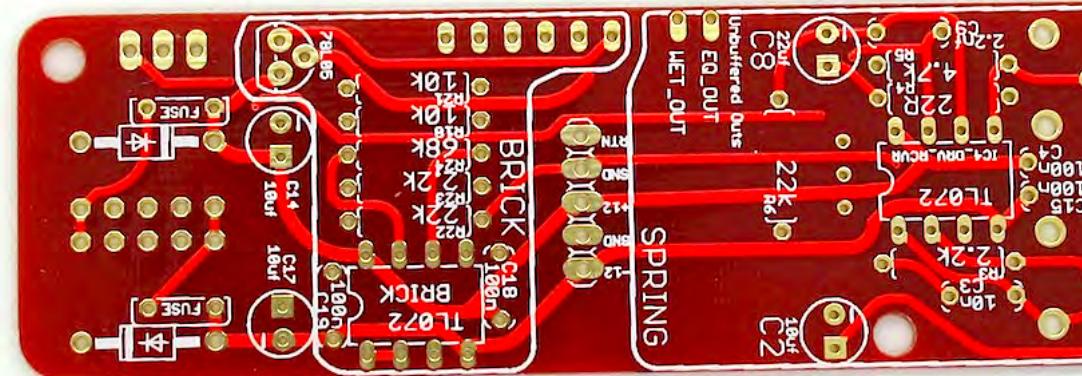
Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK



[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Mon Nov 11, 2013 4:49 pm Post subject:

prices? not yet.

release date? November.

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Mon Nov 11, 2013 4:56 pm Post subject:

Yes!!!

+++
My links: youtubez's// blogz's// soundcloudz's// soundcloudz's's// Brighton Modular Meets// instagrammmzz// flickrz//
+++

Joined: 28 Dec 2010
Last Visit: 07 Jan 2015

Posts: 667
Location: Hove

[Back to top](#)

Isaiah
Super Deluxe Wiggler



Joined: 02 Jun 2010
Last Visit: 22 Jan 2015

Posts: 1295

Posted: Mon Nov 11, 2013 5:38 pm Post subject:

Monobass

Joined the wishlist

Could you post the co-ordinates of the mounting holes relative to the holes for the pot shafts please?
I've designed my own panel and would like to mount the PCB-sandwich to the panel with stand-offs.

Wedding Sale! UK/EU
Moog MF-103
PCB Backlog

[Back to top](#)

heapish
Wiggling with Experience

Posted: Mon Nov 11, 2013 6:19 pm Post subject:

Joined: 11 Mar 2013
Last Visit: 22 Jan 2015



Posts: 288
Location: Lancashire UK



[Back to top](#)

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parasitk
I Play Loco Gigs



Joined: 15 May 2008
Last Visit: 15 Jun 2014

Posts: 4848
Location: Lost Angeles

Monobass wrote:

prices? not yet.

release date? November.

cough 15v?

[I, Parasite | Synth fuckery on Soundcloud](#)

dkcg wrote:

But in the end, it felt like I was playing WiiSoundMasterJedi.

[Back to top](#)

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jasonh23
Learning to Wiggle

Joined: 21 Jul 2013
Last Visit: 29 Nov 2013

Posts: 38

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Isaiah wrote:

Monobass

Joined the wishlist

Could you post the co-ordinates of the mounting holes relative to the holes for the pot shafts please?
I've designed my own panel and would like to mount the PCB-sandwich to the panel with stand-offs.

Best way is from the eagle board layout file or download a Gerber viewer

http://musicthing.co.uk/modular/wp-content/uploads/2013/10/SpringRever_b_v2_1.zip

Will do more documentation later.

15v testing hasn't managed to make it near the top of my infinite to-do list yet 😊

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[Back to top](#)

vurma
Wiggling with Experience



Joined: 25 Apr 2013
Last Visit: 08 Jan 2015

Posts: 260

[Posted: Tue Nov 12, 2013 2:22 am Post subject:](#)

Finally a good reason to go for a stereo reverb setup! ^^

Data-as-data: <https://github.com/Vurma>

Location: Uppsala, Sweden

[Back to top](#)

knob_alchemist
Common Wiggler



Joined: 22 Jan 2012
Last Visit: 07 Jan 2015



Posts: 246
Location: Bolzano, Italy

[Back to top](#)

Posted: Tue Nov 12, 2013 6:23 am Post subject:

Tombola wrote:

Here's a demo of the spring compared with the brick:

[s]<http://soundcloud.com/musiching/real-spring-reverb-vs-belton>[/s]

Real spring sound more interesting...if I put the module in a lower row of a doepfer lowcost case can I put the spring behind the module?

<http://knobalchemist.net>

http://mixcloud.com/knob_alchemist

http://soundcloud.com/knob_alchemist



ootini

Ultra Wiggler



Joined: 23 Mar 2010
Last Visit: 07 Jan 2015



Posts: 829
Location: Dublin, Ireland

[Back to top](#)

Posted: Tue Nov 12, 2013 6:25 am Post subject:

is there an alu panel planned for this?

<http://furtherrecords.org/album/sample-hold>



Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Tue Nov 12, 2013 7:13 am Post subject:

ootini wrote:

is there an alu panel planned for this?

Yes, its in production but they won't be ready until a week or two after the first run goes on sale. I have plenty of the PCB panels which are I've planned this kit in a way where there shouldn't be any extended periods of it going out of stock.

One thing to note, on the panel with the tank connection on the front, the PCB front panel and the aluminium front panel use different type

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onlyHzwhenI...

Common Wiggler



Joined: 20 May 2013
Last Visit: 08 Jan 2015



Posts: 85

Posted: Tue Nov 12, 2013 8:04 pm Post subject:

paperCUT wrote:

Looks fantastic, I'm sold! Looks like you could also squeeze a small toggle switch above the main wet/dry knob to select between the brick ar

You'd be crazy to build this and not add the brick since everything except a switch is on board. Great design 😊

Monobass wrote:

Something like a 4hp expander with a panel mounted switch and feedback options would actually be a relatively straightforward thing I think

Any chance of a single panel solution? I'd guess it would make sense to have it as an add on, so folks could chose front or rear RCAs, not h But it does seem like a daughter-board with buffers for dedicated wet/ dry outs, the spring/ brick switch, and the feedback controls behind Could hide the part of the brick that overhangs behind the wider panel.

I'm in either way, just thinking out loud.

-JT

EDIT: Should have said that I think it's great that there are panels coming. Certainly I will want whatever is made, was just sorta wishing f piss on what seems like a great product idea, and am sorry if it had that effect.

[Back to top](#)

Tombola

Super Deluxe Wiggler

Posted: Wed Nov 13, 2013 5:44 am Post subject:

onlyHzwhenI... wrote:



Any chance of a single panel solution?

If I was hacking it, I'd suggest:

Use the 6hp panel, mount the spring out the back, use the two extra holes at the bottom:

- 1) switch for spring/tank
- 2) Unbuffered output for 100% wet, which will *probably* be OK, and would make feedback patching easier.
- If it's unbufferedness proves a problem, you could do a really messy hack with a TL071 and a few wires stealing power from somewhere f

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

<http://musicthing.co.uk/modular/>

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[Back to top](#)

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patilon
Veteran Wiggler



Posted: Wed Nov 13, 2013 8:06 am Post subject:

i thought i read somewhere that the module already has a 100% wet output?

to be honest.. i didn't get how you get into standalone crossfading mode - as seen in the video.. as how i understood it, the X-Fade jack is signal, so no reverb at all then OR as 100% wet output depending if you connect an audio signal to this jack or a cable which from there goes to a mixer (no idea if or how this double-function could work.. it's just how i understood it).

apart from that... not sure for which version to decide (RCA in front or not) i'm definitely planning to sell my a-199 for this one. also i really like addition to the normal spring reverb sound!

www.myspace.com/reejklynur www.myspace.com/reejklynurmotionpictures

Joined: 25 Aug 2011
Last Visit: 08 Jan 2015



Posts: 590
Location: Germany

[Back to top](#)

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Tombola
Super Deluxe Wiggler



Posted: Wed Nov 13, 2013 9:04 am Post subject:

patilon wrote:

to be honest.. i didn't get how you get into standalone crossfading mode - as seen in the video.. as how i understood it, the X-Fade jack works with audio-signal, so no reverb at all then OR as 100% wet output depending if you connect an audio signal to this jack or a cable which from there goes to something like a mixer (no idea if or how this double-function could work.. it's just how i understood it).

Originally, I built the top-left socket as a 100% wet output - you may have seen a prototype shot. But I was playing with the vactrol x-fade module in my system, so I replaced the 100% wet OUTPUT with a x-fade INPUT.

When the x-fade input is used, you can't hear reverb at all.

Why did I do this? It's quite easy to set the blend output to 100% wet and externally patch feedback loops etc - so the 100% wet output is no way to externally patch into the x-fade function without the x-fade input, so it is less redundant.

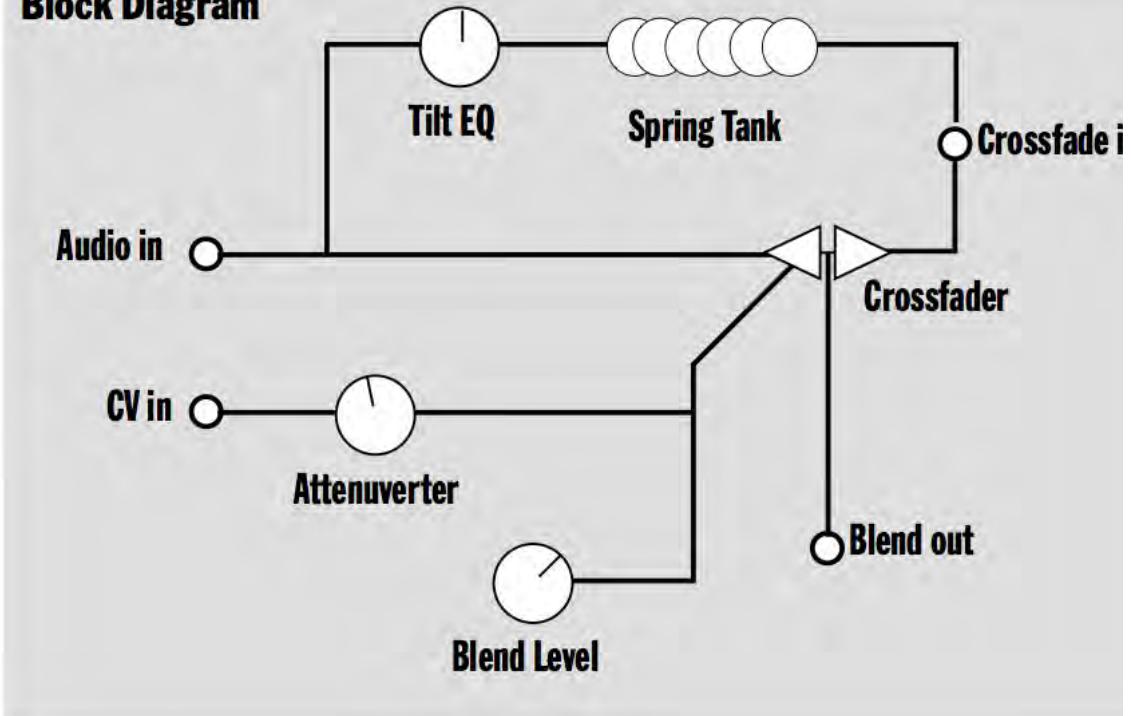
Here's the block diagram:

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

Block Diagram



<http://musicthing.co.uk/modular/>

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[Back to top](#)

pation
Veteran Wiggler



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

Posts: 590
Location: Germany

[Back to top](#)

a100user
All the gear, no idea!



Joined: 13 Mar 2008
Last Visit: 08 Jan 2015

Posts: 2811
Location: Southern England

[Back to top](#)

Tombola
Super Deluxe Wiggler

[Post](#) [Posted: Wed Nov 13, 2013 9:40 am](#) Post subject:

a100user wrote:

Any news on if this module will run at 15V?

I'm thinking specifically with the brick version but either way.

thanks



Brick version has a 5v regulator to power the brick itself, so that will be fine. Everything else is standard op amps which will run at either 1e part of which is derived from the Verbos circuit here, designed for 15v. You might want to increase the LED protection resistor - R11 - from

BUT - I haven't tested it!

<http://musicthing.co.uk/modular/>

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Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

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knob_alchemist
Common Wiggler



Posted: Wed Nov 13, 2013 12:42 pm Post subject:

Real spring sound more interesting...if I put the module in a lower row of a doepfer lowcost case can I put the spring behind the module, m case with a double-sided tape?

It's there enough space? and is that a good solution?

<http://knobalchemist.net>
http://mixcloud.com/knob_alchemist
http://soundcloud.com/knob_alchemist

Joined: 22 Jan 2012
Last Visit: 07 Jan 2015



Posts: 246
Location: Bolzano, Italy

[Back to top](#)

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Monobass
thonk.co.uk



Posted: Wed Nov 13, 2013 12:46 pm Post subject:

I reckon there will be space depth wise, but be prepared for trial and error in finding a spot where its not noisy.

I'd advise having the tank external for sound quality, it really depends on the specific case.

Thonk - Modular Synth DIY + Eurorack Accessories Store

Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

[Back to top](#)

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a100user
All the gear, no idea!



Posted: Wed Nov 13, 2013 1:36 pm Post subject:

Tombola wrote:

a100user wrote:

Any news on if this module will run at 15V?

I'm thinking specifically with the brick version but either way.

thanks

Brick version has a 5v regulator to power the brick itself, so that will be fine. Everything else is standard op amps which will run at 15V - the drive part of which is derived from the Verbos circuit here, designed for 15v. You might want to increase the LED protection resistor to 4.7k.

BUT - I haven't tested it!

Many thanks that's close enough for me to push ahead. Looking forward to trying it out.

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[Back to top](#)

fluxmonkey
Super Deluxe Wiggler

Posted: Wed Nov 13, 2013 1:37 pm Post subject:

Monobass wrote:

I'd advise having the tank external for sound quality, it really depends on the specific case.



i think this might be particularly true for switching power supplies. switchers have come a long way in terms of getting cleaner, but those I guess, will be interesting to see what folks' experiences are.

www.fluxmonkey.com

please email (rather than PM) with any direct correspondence

Joined: 18 Oct 2008
Last Visit: 21 Jan 2015



Posts: 1554

[Back to top](#)

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

Posted: Wed Nov 13, 2013 1:40 pm Post subject:

knob_alchemist wrote:

Real spring sound more interesting...if I put the module in a lower row of a doepfer lowcost case can I put the spring behind the module, maybe the case with a double-sided tape?
It's there enough space? and is that a good solution?

I have a Doepfer Low Cost case, and ideally I wouldn't put it on the bottom row - that's right next to the transformer, and it might create a

In my demo video, the long spring is sitting on top of the 9U low cost case - you can hear there is still a bit of hum, but it's not too bad - ALL patching, which is sort of cool, sort of annoying.

Ideally; drill a hole in the back of your case, run a cable out, mount the spring on a wall or perhaps on the floor under your desk, somewhere do, but really good once it's done and you've forgotten about it.

As i said in the docs, moving the tank through 90 degrees (on any axis) can help hum noise a lot

<http://musicthing.co.uk/modular/>

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[Back to top](#)

onlyHzwhenI...
Common Wiggler



Joined: 20 May 2013
Last Visit: 08 Jan 2015



Posts: 85

Posted: Thu Nov 14, 2013 12:48 pm Post subject:

Tombola wrote:

onlyHzwhenI... wrote:

Any chance of a single panel solution?

If I was hacking it, I'd suggest:

Use the 6hp panel, mount the spring out the back, use the two extra holes at the bottom:

- 1) switch for spring/tank
- 2) Unbuffered output for 100% wet, which will *probably* be OK, and would make feedback patching easier.
- If it's unbufferedness proves a problem, you could do a really messy hack with a TL071 and a few wires stealing power from somewhere

That's what I wanted to hear! Somehow when I looked at the pics of the panel I missed that the front phono jack option wasn't board mounted on the front panel.

I'll still have to wrap my head around the simplest, smallest feedbacker, but that's not on you. I need to learn to patch that sort of stuff and suggestions if anybody knows a module/ thread that can make such patches easy; I'd love to have a patch as easy as a mixer's auxes with

Either way this verb looks the business, and sounds fantastic. I like the idea of being able to use the spring when practical, i.e. when carrying it (if external), etc.; and still have the digital version as a backup, a 'known good', skiff friendly option. And damn (known) good at that!

Thanks for this project **Tombola** and **Monobass**!

-JT

[Back to top](#)

Tombola
Super Deluxe Wiggler



Posted: Thu Nov 14, 2013 12:59 pm Post subject:

Here's a quick feedback patch I did a while back when the circuit was on breadboard. From memory...

Bandpass output from A Sys AS110 multimode filter -> Spring input
Spring output (at 100% wet) -> AS110 input & Mult -> final mixer input
Another sound source -> AS110 input 2

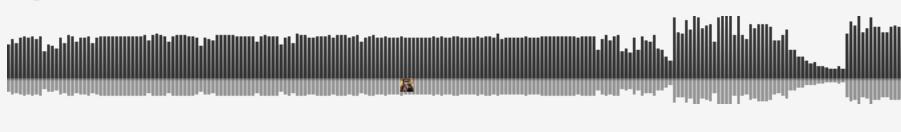
= madness:

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015


Posts: 1322
Location: London, England



 MusicThing
Spring feedback

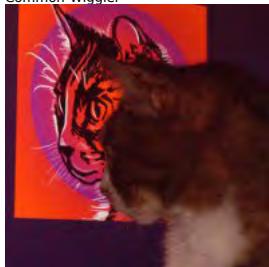


<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)


onlyHzwhenI...
Common Wiggler



Joined: 20 May 2013
Last Visit: 08 Jan 2015


Posts: 85

Posted: Thu Nov 14, 2013 3:47 pm Post subject:

Tombola wrote:

Here's a quick feedback patch I did a while back when the circuit was on breadboard. From memory...

Bandpass output from A Sys AS110 multimode filter -> Spring input
Spring output (at 100% wet) -> AS110 input & Mult -> final mixer input
Another sound source -> AS110 input 2

= madness:

[s][http://soundcloud.com/musicthing/spring-feedback\[/s\]](http://soundcloud.com/musicthing/spring-feedback[/s])

Thanks, that sounds great, looks super easy.

Also listened to Spring Reverb vs Echophon. My work often requires me to drive several hours late at night after a 14-16 hr day, dead tired to loud noises. Somehow this track sounds almost exactly like what I hear in my head at such moments! 

And the sick thing is, now I'm wondering if maybe I'll need several Music Thing verbs -- not just for stereo options, but for series apps! What a sales pitch!

~JT

[Back to top](#) 

Karl_Joseph
Wiggling with Experience

Joined: 08 Oct 2012
Last Visit: 05 Jan 2015


Posts: 412
Location: Minneapolis

Posted: Fri Nov 15, 2013 12:17 pm Post subject:

Monobass wrote:

oootini wrote:

is there an alu panel planned for this?

Yes, its in production but they won't be ready until a week or two after the first run goes on sale. I have plenty of the PCB panels sturdy and look great. I've planned this kit in a way where there shouldn't be any extended periods of it going out of stock.

One thing to note, on the panel with the tank connection on the front, the PCB front panel and aluminium front panel use different types of phono connectors.

I'm confused about this. What does that mean for me? Will this be addressed in the build docs?

Also, I want PCB and Aluminum Panel with front panel RCA connectors, will they be available at the same time? Can I order the first run and ship? I can wait barely.

- KARL

[Back to top](#) 

Tombola
Super Deluxe Wiggler

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015


Posts: 1322
Location: London, England

Posted: Fri Nov 15, 2013 5:52 pm Post subject:

"What does that mean for me? Will this be addressed in the build docs?"

Yes, it is detailed in the PDFs about the panels.

Normal panel mount phono sockets connect their ground pin to the panel they're mounted on (just as most 3.5mm and quarter inch socket)

However, in this design the ground being sent to the spring should be isolated from the one coming back from the spring. So, PCB material no connection.

BUT, if you used normal sockets on an aluminium panel, there would be a short, so you need isolated sockets, which have a plastic insulation panel. (You can see this kind of socket in the double tank in a Hammond enclosure in the main build doc)

<http://musicthing.co.uk/modular/>

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[Back to top](#)

EMwhite
Super Deluxe Wiggler

Posted: Fri Nov 15, 2013 6:16 pm Post subject:



May or may not be related but when I built Tom's original design (the rough schematic that he posted here a year ago) I was getting very poor ground noise. Driving me nuts.

I'm not sure how closely this new design resembles the original but the problem I had was that the common ground on the send/rec RCA jacks was driving me nuts.

As soon as I isolated them (discreet sleeve connections), the issues went away and everything worked swimmingly.

Beware of programmers with screwdrivers...

Joined: 08 Feb 2012
Last Visit: 07 Jan 2015

Posts: 1602
Location: NY Metro area

[Back to top](#)

BBlack
Wiggling with Experience

Joined: 10 Nov 2012
Last Visit: 31 Oct 2014

Posts: 316

[Back to top](#)

Posted: Fri Nov 15, 2013 8:13 pm Post subject:

I'm on 15v and will likely be buying this regardless, but an official test at 15v would allow some peace of mind!

Much appreciated if possible!



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

Posted: Sat Nov 16, 2013 12:15 pm Post subject:

EMwhite wrote:

May or may not be related but when I built Tom's original design (the rough schematic that he posted here a year ago) I was getting very poor ground noise. Driving me nuts.

I'm not sure how closely this new design resembles the original but the problem I had was that the common ground on the send/rec RCA jacks was driving me nuts.

As soon as I isolated them (discreet sleeve connections), the issues went away and everything worked swimmingly.

Yep, this is a similar circuit, and common ground definitely won't work here.

This picture explains - left hand is not isolated, should only be used on non-conductive panel for this circuit. Right hand is isolated, can be used on conductive panel.



<http://musicthing.co.uk/modular/>

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[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Sat Nov 16, 2013 5:48 pm Post subject:

BBlack wrote:

I'm on 15v and will likely be buying this regardless, but an official test at 15v would allow some peace of mind!

Much appreciated if possible!

To date I have only completely assembled one kit.... and that went to a native 15v wiggler who will be performing testing

Thonk - Modular Synth DIY + Eurorack Accessories Store

Karl Joseph
Wiggling with Experience

Joined: 08 Oct 2012
Last Visit: 05 Jan 2015

 Posts: 412
Location: Minneapolis

Tombola wrote:

"What does that mean for me? Will this be addressed in the build docs?"

Yes, it is detailed in the PDFs about the panels.

Normal panel mount phono sockets connect their ground pin to the panel they're mounted on (just as most 3.5mm and quarter inch sockets)

However, in this design the ground being sent to the spring should be isolated from the one coming back from the spring. So, PCB material is there is no connection.

BUT, if you used normal sockets on an aluminium panel, there would be a short, so you need isolated sockets, which have a plastic insulating the panel. (You can see this kind of socket in the double tank in a Hammond enclosure in the main build doc)

Will the isolated jacks be included with the front panel RCA connection kit?

- KARL

[Back to top](#)



Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

Karl_Joseph wrote:

Will the isolated jacks be included with the front panel RCA connection kit?

Yes both with the full kit that requires them and also available as an option with the separate 'front loading' alu panel.

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[Back to top](#)



BBBlack
Wiggling with Experience

Joined: 10 Nov 2012
Last Visit: 31 Oct 2014

 Posts: 316

Monobass wrote:

BBBlack wrote:
I'm on 15v and will likely be buying this regardless, but an official test at 15v would allow some peace of mind!

Much appreciated if possible!

To date I have only completely assembled one kit.... and that went to a native 15v wiggler who will be performing testing 😊



[Back to top](#)



horstronic
Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

 Posts: 756
Location: Germany

Quote:

Here's a quick feedback patch I did a while back when the circuit was on breadboard. From memory...

Bandpass output from A Sys AS110 multimode filter -> Spring input
Spring output (at 100% wet) -> AS110 input & Mult -> final mixer input
Another sound source -> AS110 input 2

= madness:

[s]http://soundcloud.com/musicthing/spring-feedback[/s]

Dope!!!

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

[Back to top](#)



Plop
Wiggling with Experience





Posted: Sun Nov 17, 2013 3:45 pm Post subject:

Got a couple of Silonex vactrols left from an other project and was wondering what to do with them. But now I foresee some spring reverb

Joined: 06 Mar 2010
Last Visit: 23 Nov 2014



Posts: 253

Location: Utrecht, Netherlands

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

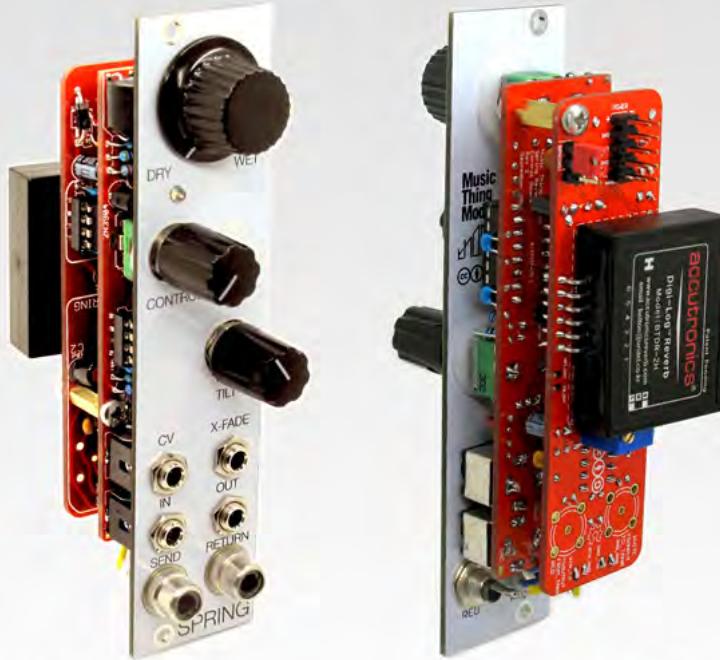


Posts: 8287

Location: Brighton, UK

Posted: Wed Nov 20, 2013 6:30 am Post subject:

SPRING REVERB



**Music
Thing
Modular**



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[Back to top](#)

themanthatwasused

I don't speak that language anyway



Joined: 22 Aug 2011
Last Visit: 07 Jan 2015



Posts: 688
Location: Philippines

Posted: Wed Nov 20, 2013 6:41 am Post subject:

thats...



BLOG
BANDCAMP
PHOTOBLOG

[Back to top](#)

mckenic

pew!pew!pew!kthnxbye!



Posted: Wed Nov 20, 2013 7:04 am Post subject:

Sorry for the stupid question - Im sure the info is there somewhere so I apologize...

If I was going for the brick (or wanted the RCA connectors coming out the back of the module) - is there a panel without the front mounted

Thanks - VERY excited about this!



Album Teaser Video

mCKENIC.cOM | mCKENIC Soundcloud

Joined: 06 Aug 2010

Last Visit: 07 Jan 2015



Posts: 5029

Location: Limerick, Ireland

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[profile](#) | [pm](#)

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011

Last Visit: 22 Jan 2015



Posts: 1322

Location: London, England

mckenic wrote:

Sorry for the stupid question - Im sure the info is there somewhere so I apologize...

If I was going for the brick (or wanted the RCA connectors coming out the back of the module) - is there a panel without the front mounted h

Thanks - VERY excited about this!



Yes, there is!

<http://musicthing.co.uk/modular/>

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[Back to top](#)

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Monobass

thonk.co.uk



Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

Posted: Wed Nov 20, 2013 7:29 am **Post subject:**

I'll try and get photos of that option up this week too. Have to make one first 😊

The module pictured is exactly what will ship in the Thonk kits, built a proto yesterday and it's working great.

I'm so much more into the brick sound than I thought I would be! It's pretty edgy and psychedelic. A really nice option compared to the dif

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mckenic

pew!pew!pew!kthnxbye!



Joined: 06 Aug 2010

Last Visit: 07 Jan 2015



Posts: 5029

Location: Limerick, Ireland

[Back to top](#)

Posted: Wed Nov 20, 2013 7:30 am **Post subject:**

Brilliant! Many thanks sir!

Album Teaser Video

[mCKENIC.cOM](#) | [mCKENIC Soundcloud](#)

Joined: 29 May 2009

Last Visit: 06 Jan 2015

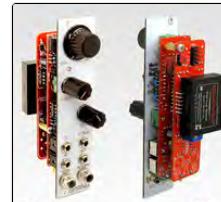


Posts: 8287

Location: Brighton, UK

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Posted: Wed Nov 20, 2013 8:09 am **Post subject:**

 Thonk Synth DIY
Music Thing Modular - Spring Reverb - Digital vs Analog

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[Back to top](#)

mckenic
pew!pew!pew!kthnxbye!



Joined: 06 Aug 2010
Last Visit: 07 Jan 2015

Posts: 5029
Location: Limerick, Ireland

[Back to top](#)

Waz
Wiggling with Scurvy



Joined: 02 Mar 2009
Last Visit: 07 Jan 2015

Posts: 2548
Location: Detroit

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

nihilist
Wiggling with Experience



Joined: 24 Jan 2011
Last Visit: 07 Jan 2015

Posts: 273
Location: USA

[Back to top](#)

Monobass
thonk.co.uk

[Posted: Wed Nov 20, 2013 8:30 am Post subject:](#)

when will these be available?

www.nihilistrecords.net

looking like next week

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

[Back to top](#)

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Karl_Joseph
Wiggling with Experience

Joined: 08 Oct 2012
Last Visit: 05 Jan 2015

 Posts: 412
Location: Minneapolis

 Posted: Wed Nov 20, 2013 4:53 pm Post subject:

Monobass wrote:

looking like next week

Payday is next week! I might be "down for 2" of these depending on price.

- KARL

[!\[\]\(eb4b4fe1f21b0a633a66c75741033185_img.jpg\)](#) [!\[\]\(45900352c7e5f4f5885c848676186e41_img.jpg\) profile](#) [!\[\]\(00d94199ac76a29e9fd37bee4c7f42c9_img.jpg\) pm](#)

sync24
Veteran Wiggler



Joined: 28 Dec 2010
Last Visit: 07 Jan 2015

 Posts: 667
Location: Hove

[Back to top](#)

[!\[\]\(353b4b81c757811a0850e5590681510b_img.jpg\)](#) [!\[\]\(fbed7071f712a056f757503f8ce013e5_img.jpg\) profile](#) [!\[\]\(b34fb6644b15aedb6fd915059695476b_img.jpg\) pm](#)

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

 Posts: 164

 Posted: Wed Nov 20, 2013 7:08 pm Post subject:

Whoa! This looks great. I too would want to have a switch to do both options and run the rca internal. This is exactly what I've been looking

[Back to top](#)

[!\[\]\(67f3257ac6a4b00a7a92a247b8c85b22_img.jpg\)](#) [!\[\]\(149fadaf138cb68cb3722cc783a559a1_img.jpg\) profile](#) [!\[\]\(74a7fcbc9fe5a49cd5840f81780989bd_img.jpg\) pm](#)

ootini
Ultra Wiggler



 Posted: Thu Nov 21, 2013 1:12 pm Post subject:

is the white solder mask style faceplate the final design for the first thonk edition? or is that prototype?

<http://furtherrecords.org/album/sample-hold>

Joined: 23 Mar 2010
Last Visit: 07 Jan 2015

 Posts: 829
Location: Dublin, Ireland

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

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Posted: Thu Nov 21, 2013 1:15 pm Post subject:

ootini wrote:

is the white solder mask style faceplate the final design for the first thonk edition? or is that prototype?

For the imminent run yes, aluminum panels are also in production.

I should stress that the Panel is made from PCB material but does not form part of the circuit, so think Bugbrand rather than Blue Lantern.

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[Back to top](#)

Spir
Common Wiggler

Joined: 19 Jun 2013
Last Visit: 01 Jan 2015

Posts: 159

[profile](#) | [pm](#) | [email](#)

Posted: Thu Nov 21, 2013 3:47 pm Post subject:

Any idea for pricing ?

And will the PCBs be available right now or is it kit only ?

[Back to top](#)

heapish
Wiggling with Experience

Joined: 11 Mar 2013
Last Visit: 22 Jan 2015

Posts: 288
Location: Lancashire UK

[profile](#) | [pm](#)

Posted: Thu Nov 21, 2013 4:21 pm Post subject:

Monobass wrote:

yup, it's easy to hook up a switch and bring it out somewhere so you can have either/or.

Ace. Think I'm gunna do this.

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Thu Nov 21, 2013 4:40 pm Post subject:

* full kits
* pcbs
* panels

all available individually

I'll let the kit run for a couple of days first and then the separate PCBs + Panels follow a couple of days later, otherwise I just get overwhelmed.

I know no one ever believes me, but I don't work out the prices until an hour before I put them on sale! My gut reaction from my total sper owners aren't going to be shocked by the price, put it that way.

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[Back to top](#)

woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

[profile](#) | [pm](#) | [email](#)

Posted: Thu Nov 21, 2013 4:57 pm Post subject:

I believe 😊

It will be hard to choose between the brick or tank.

In for two 😊



Posts: 801

Location: UK

[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

Posted: Mon Nov 25, 2013 3:46 am Post subject:

Preliminary tests suggest there is no difference in operation between 12v and 15v

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[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

Posted: Mon Nov 25, 2013 11:51 am Post subject:

ok full thumbs up on 15v

Regulator runs warmer as expected, but not hot and well within spec.

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[Back to top](#)

horstronic

Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015



Posts: 756

Location: Germany

Posted: Mon Nov 25, 2013 1:49 pm Post subject:

Monobass wrote:

looking like next week

Yay! Can't wait!

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

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Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

Posted: Mon Nov 25, 2013 1:59 pm Post subject:

Update on the alu panels, as previously mentioned they won't be back from the factory in time for this first run going on sale this week.

The first one should be on sale this year though, which is the aluminium panel for use with either the digital brick only OR the spring tank c

Need to trial a few different isolated phono sockets for the alu panel with spring tank connection on the front.

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[Back to top](#)

horstronic

Ultra Wiggler

Monobass wrote:



Update on the alu panels, a previously mentioned they won't be back from the factory in time for this first run going on sale this week.

Does that mean that you are selling kits without panels first?

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

Posts: 756
Location: Germany

[Back to top](#)

Posted: Mon Nov 25, 2013 2:05 pm Post subject:

no, read back through the thread, it's the panels shown in this image which are the lower cost white PCB versions. Similar prices to the Tur higher quality & sturdy, and pots are bolted to it.

They look really good, I think they're of comparable functional quality to Aluminium panels personally, a much cleaner look and actually eas requirements to do with grounding on the spring tank send and return (they can't share a ground).



Thonk - Modular Synth DIY + Eurorack Accessories Store



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Mon Nov 25, 2013 2:59 pm Post subject:

Sorry, didn't see that.

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

Posts: 756
Location: Germany

[Back to top](#)

Posted: Mon Nov 25, 2013 3:23 pm Post subject:

Davies 1600 and 1900 knobs (Buchla and Serge)

I just can't help imagining that this would be better with vactrols



Joined: 07 Nov 2008
Last Visit: 22 Jan 2015

Posts: 3408
Location: Los Angeles

[Back to top](#)

Posted: Mon Nov 25, 2013 3:29 pm Post subject:

best of both worlds

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

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Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Mon Nov 25, 2013 6:29 pm Post subject:

ok.. price for the full kit - 53 GBP (approx 64 EUR / 72 USD)

(GBP + EUR prices include VAT)

That includes everything to use brick and/or spring tank, with either front panel (phonos on front or back) but doesn't include the digital br

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horstronic

Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

Posts: 756
Location: Germany

Posted: Mon Nov 25, 2013 6:33 pm Post subject:



WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

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Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Mon Nov 25, 2013 6:54 pm Post subject:

Two places I can personally vouch for in the uk

Digital Brick (UK)

Real Spring Tank (UK)

In Germany

Real Spring Tank (DE - Banzai normally pretty quick)

In USA

Real Spring Tank (USA - I have not used this supplier personally)

Digital Brick (USA - Mammoth)

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Last edited by Monobass on Mon Nov 25, 2013 7:01 pm; edited 3 times in total

[Back to top](#)

Tombola

Super Deluxe Wiggler



Posted: Mon Nov 25, 2013 6:58 pm Post subject:

I just noticed that you coordinated the jumper colour with the PCB.



<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

[Back to top](#)

Monobass

thonk.co.uk

Posted: Mon Nov 25, 2013 7:02 pm Post subject:

heheh. yes. Although so anyone doesn't get disappointed, the 'first pressings' actually come with a super limited Ed. BLACK jumper



So I think the first batch will go for sale on Thursday, Friday latest.

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

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Posted: Mon Nov 25, 2013 7:18 pm Post subject:

PCBs and Panel sets will go for sale the start of next week once I've broken the back of the kit orders.

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

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Posted: Tue Nov 26, 2013 5:01 am Post subject:

can't wait to order mine!
any comparison between 9EB2C1B and 8EB2C1B somewhere?

<https://soundcloud.com/evn734c>
<https://soundcloud.com/temposlope>

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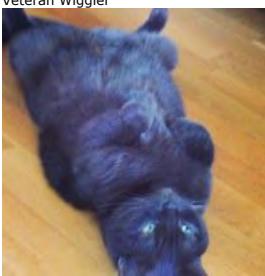
Posted: Tue Nov 26, 2013 6:18 am Post subject:

Just got two long bricks from the UK supplier! Can't wait to order these kits. Oyeah I need 2 kits (I suppose!).

-J

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

Posts: 596
Location: Sweden

[Back to top](#)

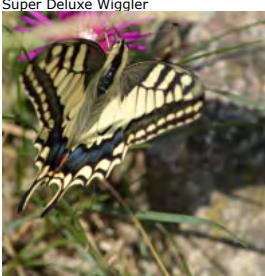
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Posted: Tue Nov 26, 2013 6:22 am Post subject:

Mentioned in other threads:

http://www.tubeampdoctor.com/catalog.php?category_id=32&mySID=LNo6f5qy_rEPUUPQG1J6sG0

Never got to the point of ordering a bigger tank for the A-199, will have to do some ordering now anyway 😊



Joined: 27 Dec 2010
Last Visit: 08 Jan 2015

Posts: 1327
Location: Belgium

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Monobass



Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

[Back to top](#)

□ Posted: Tue Nov 26, 2013 6:29 am Post subject:

It's worth remembering that the tank for the Doepfer sounds *great* with the Music Thing Modular Spring Reverb module.

Whether you like the lo-fi sound of the Doepfer or not, what I've found in a side by side comparison is that the lo-fi nature comes from the

Also I found the difference in sound between the smaller Doepfer tank and the longer 17" version that is often recommended as an upgrade module that makes 90% of the difference in sound. The only exception really being the decay time, but contrary to popular belief that is no length of the tank..

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vurma

Wiggling with Experience

□ Posted: Tue Nov 26, 2013 9:44 am Post subject:

Please keep us updated on the exact time of release. I expect these kits to vaporize pretty quickly and I want in.

Data-as-data: <https://github.com/Vurma>

Joined: 25 Apr 2013

Last Visit: 08 Jan 2015



Posts: 260

Location: Uppsala, Sweden

[Back to top](#)

Monobass

thonk.co.uk

□ Posted: Tue Nov 26, 2013 9:46 am Post subject:

I'm pretty sure it's going to be Thursday morning.

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Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

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Monobass

thonk.co.uk

□ Posted: Tue Nov 26, 2013 10:30 am Post subject:

SmallBear also have the Brick

<http://www.smallbearalec.com/servlet/Detail?no=1211>

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Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

[Back to top](#)

Monobass

thonk.co.uk

□ Posted: Tue Nov 26, 2013 10:45 am Post subject:

Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK



**Option A - Spring Tank RCA
Phono sockets on rear.**

Depth - 42.5mm, allow **56mm** using typical right-angled phono plug.

**Option B - Spring Tank RCA
Phono sockets on front.**

Depth - 39mm without digital brick
41mm with horizontal brick (as above)
55mm with vertical brick

As well as purchasing the module kit from **Thonk** you also need to buy a **spring tank** or **Accutronics digital brick** (or both!) from eBay, Amazon, SmallBear, Banzai, Mammoth, HotRox.



Recommended Analogue tanks

Accutronics 9EB2C1B
Belton BMN3BB2C1B (Doepfer A-199)

Recommended Digital Bricks

Accutronics BTDR-2H
Accutronics BTDR-2V

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Last edited by Monobass on Tue Nov 26, 2013 12:15 pm; edited 1 time in total

[Back to top](#)

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Tombola
Super Deluxe Wiggler

Posted: Tue Nov 26, 2013 11:49 am Post subject:

Monobass wrote:

Also I found the difference in sound... is pretty subtle...



Second this - I ended up writing a whole bit in the manual about sound:

Using the module, and how to get the best possible sound

I'm very happy with how this circuit sounds, particularly in this demo: But it's not always easy to coax such smooth tones from a spring.

Don't assume there is a fault with your module if you don't immediately get this kind of sound - I made that mistake a few times or

Here's what I've learned about getting a good, rich, warm, clean sound:

Joined: 23 Jan 2011

Last Visit: 22 Jan 2015



Posts: 1322

Location: London, England

What you get out depends on what you put in. By far the biggest factor in the tone of the reverb is - obviously - the tone being fed into it. Smooth mushy sound over whatever you run into them. This isn't like that at all. Remember that it's a physical system moving abc springs.

I've found that smooth, clean, FM-ed sinewaves work very well with the springs. On a scope, the output looks similar to the input, but square waves try to bash the springs about. There's no way that a magnet can move a spring in anything like a square wave, so the sound is a square wave. On a scope, it's more like a filter or waveshaper.

Small changes in the input sound can be amplified and enhanced by the reverb.

Choice of spring tank is not absolutely critical. Big long six spring tanks will sound bigger than small tanks, but I've found that - at least - it's important than the other factors in this list. I got pretty good reverb from the tiny plastic-boxed new reverb that Belton are developing. You can have tank to some extent.

Hum is caused (and can often be cured) by the exact position of the tank. A reverb tank is not unlike a big, highly amplified single-coil guitar hum, particularly from transformers but probably also from dimmer switches or fluorescent tubes. That hum can often be stopped complete source or - often more practically - by just changing the position of the tank. Try shifting it through 90 degrees - on whichever axis is practical want to mount your tank inside a case, experiment with the exact position to find the quietest spot before fixing anything.

Noise (hiss, white noise, not hum) is caused by the high-gain op amp in the recovery section. I've tried to reduce it as far as possible but tried two lower-gain op amps in series, which seriously increased the noise. It may be that using other dual op-amps could reduce this noise, adding mojo.

Spring reverb is chaotic and hard to predict. Spring reverb is a strange, gnarly, physical effect. When I tried to calibrate and measure this for example, 400hz, might barely excite the springs at all, while a sine at 405hz would bust them into fuzzy overdrive. Change a component

<http://musicthing.co.uk/modular/>

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[Back to top](#)

nihilist
Wiggling with Experience



Joined: 24 Jan 2011

Last Visit: 07 Jan 2015



Posts: 273

Location: USA

Posted: Tue Nov 26, 2013 1:12 pm Post subject:

two questions,

When using accu brick, mounted in rear,
what is the benefit of the option B, with front sockets?

Also,

when are these available?

www.nihilistrecords.net

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

Posted: Tue Nov 26, 2013 1:20 pm Post subject:

Thursday.

If you want brick only then select the panel with rear sockets, you won't need them although they're still included in the kit.

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[Back to top](#)

Rick Burnett
Common Wiggler

Posted: Tue Nov 26, 2013 2:06 pm Post subject:

Ordered both brick and tank 😊 Can't wait to play with this.



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

[Back to top](#)

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

[Back to top](#)

Posted: Tue Nov 26, 2013 3:44 pm Post subject:

nihilist wrote:

When using accu brick, mounted in rear,
what is the benefit of the option B, with front sockets?

You wouldn't want the phono sockets, but you could - if you like busy panels with incorrect labels - put in two 3.5mm sockets with the EQ C unbuffered, so plugging stuff into them could change the way the rest of the module sounds, but it should work OK.

<http://musicthing.co.uk/modular/>

[Back to top](#)

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Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

Posted: Tue Nov 26, 2013 3:51 pm Post subject:

[dupe]

Last edited by Stinktier86 on Tue Nov 26, 2013 4:00 pm; edited 1 time in total

[Back to top](#)

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Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

Posted: Tue Nov 26, 2013 3:59 pm Post subject:

Monobass wrote:

ok.. price for the full kit - 53 GBP (approx 64 EUR / 72 USD)

(GBP + EUR prices include VAT)

That includes everything to use brick and/or spring tank, with either front panel (phonos on front or back) but doesn't include the digital bric

-Does this include vactrols, too?

Already got an a-199 (plus its springs), still figuring out whether i should order one or two kits thurs/fri...

The manual describes 'hacking' the tl072 buffers in order to make the extra outs buffered. Sorry, this will be my first build since i did BYOC
Someone up for explaining to a newbie?

Last edited by Stinktier86 on Tue Nov 26, 2013 4:00 pm; edited 1 time in total

[Back to top](#)

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Tombola
Super Deluxe Wiggler

Stinktier86 wrote:

The manual describes 'hacking' the tl072 buffers in order to make the extra outs buffered.

If you build the spring but not the brick, there is a space for a TL072 in the brick part of the circuit board. I'd put a socket there, then take



1,2,3,5,6,7, so only the power pins (4 and 8) stick down into the socket. Place it in the socket to hold steady.

Then, you can create super-simple buffers. Fold & solder pins 1 and 2 together, then do the same for 6 and 7.

Run a signal into 3 (or 5) and it will come out of 1/2 (or 6/7) buffered. You'll have a bunch of ugly wires over the back of your board, so it's not a great idea.

The pinout is here: http://www.ece.usu.edu/ece_store/spec/tl072.pdf

And you're creating two unity gain op amp buffers: http://en.wikipedia.org/wiki/File:Op-Amp_Unity-Gain_Buffer.svg

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

Posted: Tue Nov 26, 2013 4:23 pm Post subject:

Thanks - made things much more clear!

Additionally, i'm going to vactrolize that tilt potentiometer. Imagine CVed movement on the tilt while using feedback. It's a killer. I've done some work on it and the results will be more pleasing since it is a lo/hi tilt rather than the usual high freq rolloff.



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014



Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

Posted: Tue Nov 26, 2013 4:24 pm Post subject:

Stinktier86 wrote:

Monobass wrote:

ok.. price for the full kit - 53 GBP (approx 64 EUR / 72 USD)

(GBP + EUR prices include VAT)

That includes everything to use brick and/or spring tank, with either front panel (phonos on front or back) but doesn't include the digital brick.



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

-Does this include vactrols, too?

yep everything other than the digital brick or spring tank, right down to the rack screws and power cable.

Oh and another little improvement to Thonk kits, the resistors now have the number written on the Bag, R1, R2 etc.



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[Back to top](#)

vurma
Wiggling with Experience

Posted: Tue Nov 26, 2013 4:44 pm Post subject:

Stinktier86 wrote:

Thanks - made things much more clear!

Additionally, i'm going to vactrolize that tilt potentiometer. Imagine CVed movement on the tilt while using feedback. It's a killer. I've done it results will be more pleasing since it is a lo/hi tilt rather than the usual high freq rolloff.

Joined: 25 Apr 2013
Last Visit: 08 Jan 2015

Posts: 260
Location: Uppsala, Sweden

Hey that's not a bad idea actually. I will have spare vacs since they are included in the kit.

Data-as-data: <https://github.com/Vurma>

[Back to top](#)

cane creek
Wiggling with Experience

Posted: Tue Nov 26, 2013 4:44 pm Post subject:

I'm going for brick but not sure which decay time

Medium 2.5s or Long 2.85s ?

canecreek.co.uk
'Ambient Glitch' sample library by cane creek

Joined: 26 May 2012
Last Visit: 07 Jan 2015

Posts: 499
Location: Middlesbrough UK

[Back to top](#)

Monobass

Posted: Tue Nov 26, 2013 4:46 pm Post subject:



Joined: 29 May 2009
Last Visit: 06 Jan 2015
 Posts: 8287
Location: Brighton, UK

The one in this demo is the Medium, I've not tried the long.

Thonk Synth DIY
Music Thing Modular - Spring Reverb - Digital vs Analog

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MindSnared
Common Wiggle



Joined: 07 Feb 2012
Last Visit: 27 Dec 2014
 Posts: 133
Location: SE

Posted: Tue Nov 26, 2013 4:47 pm Post subject:

Very much enjoy the sound of this, hope to be able to get a kit soon.

[Back to top](#)

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cane creek
Wiggling with Experience



Joined: 26 May 2012
Last Visit: 07 Jan 2015
 Posts: 499
Location: Middlesbrough UK

Posted: Tue Nov 26, 2013 4:53 pm Post subject:

Monobass wrote:

The one in this demo is the Medium, I've not tried the long.

Thanks for speedy reply, just ordered a Medium 😊

canecreek.co.uk
'Ambient Glitch' sample library by cane creek

Joined: 26 Aug 2012
Last Visit: 28 Dec 2014
 Posts: 499
Location: Middlesbrough UK

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Stinktier86
Veteran Wiggle



Posted: Tue Nov 26, 2013 5:11 pm Post subject:

vurma wrote:

Stinktier86 wrote:

Thanks - made things much more clear!

Additionally, i'm going to vactrolize that tilt potentiometer. Imagine CVed movement on the tilt while using feedback. It's a killer. I'm imagining the results will be more pleasing since it is a lo/hi tilt rather than the usual high freq rolloff.

Hey that's not a bad idea actually. I will have spare vacs since they are included in the kit.

Joined: 26 Aug 2012
Last Visit: 28 Dec 2014



Posts: 741
Location: Gothenburg, Sweden

Poor man's resonator. 😊 I'm using the prebuilt A-101-9 Universal vactrol module for further control, but it's no necessity. Don't forget to or such). Can't provide audio examples as it is (currently in the process of moving), sorry for that.

[Back to top](#)

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Tombola

Super Deluxe Wiggler



Posted: Tue Nov 26, 2013 5:15 pm Post subject:

Re: vactrol on the tilt EQ - you'd have to calibrate it just right, because the flat setting is right in the middle - ie 25k if it's a 50k pot - other tinny or really bassy. Not sure how you'd do that.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

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diabolojoy

Super Deluxe Wiggler

Joined: 22 Jan 2010
Last Visit: 07 Jan 2015



Posts: 1092
Location: melbourne

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woodster

Ultra Wiggler



Posted: Tue Nov 26, 2013 7:06 pm Post subject:

I think the answer will be yes

Joined: 05 Mar 2012
Last Visit: 07 Jan 2015



Posts: 801
Location: UK

[Back to top](#)

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Stinktier86

Veteran Wiggler



Posted: Tue Nov 26, 2013 8:23 pm Post subject:

Tombola wrote:

Re: vactrol on the tilt EQ - you'd have to calibrate it just right, because the flat setting is right in the middle - ie 25k if it's a 50k pot - otherw really tinny or really bassy. Not sure how you'd do that.

I've found the universal vactrol module versatile for this reason. Since each vactrol channel has its own pair of manual/offset and attenuver correct dark/light resistance is easier than if i had to hardwire the desired extra resistance to a vactrol for each pot i wanted to vactrolize. A find it worth it.

Joined: 26 Aug 2012
Last Visit: 28 Dec 2014



Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

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sduck
WTF?



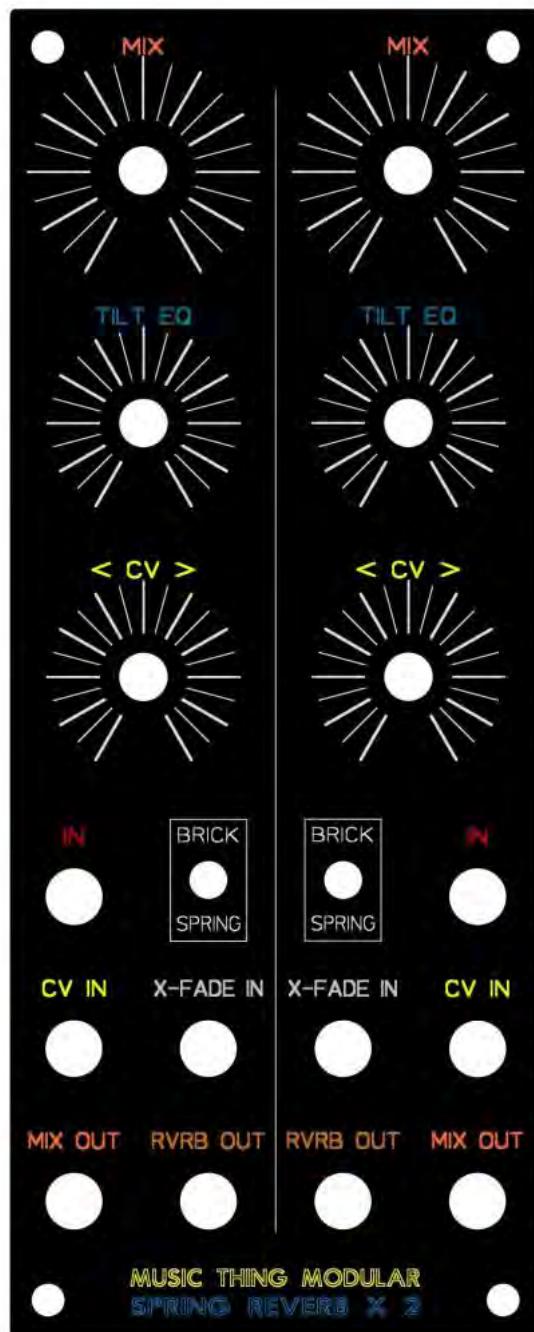
Joined: 18 Feb 2009
Last Visit: 22 Jan 2015



Posts: 7177
Location: Vortexexaion, TN, USA

Posted: Wed Nov 27, 2013 12:13 am Post subject:

Here's my plan:



Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Wed Nov 27, 2013 2:39 am Post subject:

diabolojoy wrote:

hey monobass
dont know if this has been asked before but will you be offering just PCB or PCB and panels options in your shop at any stage ?

Yep next week

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Dirty_Bill
Wiggling with Experience



Joined: 11 May 2012
Last Visit: 22 Jan 2015

Posts: 433
Location: Alameda, The Island City

Posted: Wed Nov 27, 2013 4:12 am Post subject:

sduck wrote:

Here's my plan:



Yep, gotta be Stereo!

[Back to top](#)

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EMwhite
Super Deluxe Wiggler

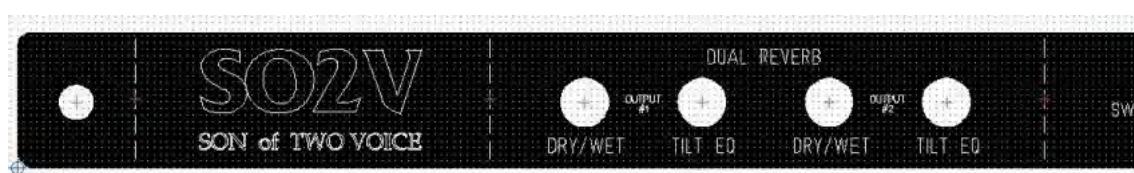


Joined: 08 Feb 2012
Last Visit: 07 Jan 2015

Posts: 1602
Location: NY Metro area

Posted: Wed Nov 27, 2013 2:27 pm Post subject:

My plan - integrated with SEMs; already got the panel back... just... need... boards...



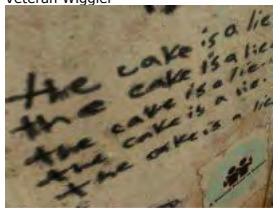
Beware of programmers with screwdrivers...

[Back to top](#)

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daluxer

Veteran Wiggler



Posted: Thu Nov 28, 2013 8:29 am Post subject:

analog vs digital reverb tank.. i can barely hear a difference.. any tips/recommendations on which to choose?

Joined: 17 Nov 2012
Last Visit: 07 Jan 2015



Posts: 721
Location: Berlin

[Back to top](#)

Tombola
Super Deluxe Wiggler



Posted: Thu Nov 28, 2013 8:42 am Post subject:

daluxer wrote:

analog vs digital reverb tank.. i can barely hear a difference.. any tips/recommendations on which to choose?

I think analogue sounds a lot better, but is physically a lot more fiddly - placing the tank, cables etc. If you like the brick, it's super easy an

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

Stinktier86
Veteran Wiggler



Posted: Thu Nov 28, 2013 8:44 am Post subject:

Ordered two for stereo goodness.

Quote:

analog vs digital reverb tank.. i can barely hear a difference.. any tips/recommendations on which to choose?

Squares and other waves are not easily reproduced through media like springs, strings, plates etc. You will get a diffuse, overtone rich reverb near perfect copies of the sound, thus the reverbtail will be more close sounding to the original source. Both has its benefits but depending between mechanical and digital reverbs.

Springs also have a certain inert response to sudden sounds which result in a swelling, sometime resonant sweeping sound. Often subtle, a beautiful effect to exploit.

Edit: Digital may also be better for live situations, where you want your reverb under control.

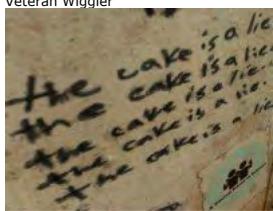
Joined: 26 Aug 2012
Last Visit: 28 Dec 2014



Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

daluxer
Veteran Wiggler



Posted: Thu Nov 28, 2013 9:43 am Post subject:

Of course there is a difference, i just wasnt hearing it in the demo.

But i get your point. Thanks for the replies.., not sure what to go for..since its my first (synth) project i might be going for the digital, tho i

Joined: 17 Nov 2012
Last Visit: 07 Jan 2015



Posts: 721
Location: Berlin

[Back to top](#)

mckenic
pew!pew!pew!kthnxbye!



Posted: Thu Nov 28, 2013 9:58 am Post subject:

Thank you Thonk & MusicThing!!!

Album Teaser Video

[mCKENIC.cOM](#) | [mCKENIC Soundcloud](#)

Joined: 06 Aug 2010
Last Visit: 07 Jan 2015


Posts: 5029
Location: Limerick, Ireland

[Back to top](#)

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Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014


Posts: 741
Location: Gothenburg, Sweden

□ Posted: Thu Nov 28, 2013 10:02 am Post subject:

Here's a pros/cons list, the way i view it:

Digital block:

- +Consistent behaviour independent of placement and environment;
- +therefore good for mobile rigs
- +Can take any signal and put out a good, clean reverb, even with 'unnatural' harmonic content.
- no means of manual manipulation
- sound is non-reactive to dynamic and harmonic changes, which gives a somewhat 'static' feel
- not so many options; just different decay times in different blocks.

Spring tank:

- +highly reactive, warm, inert sound.
- +exploiting resonance is more rewarding
- works best on material with even or low harmonic content, unless you like the sound of fuzzy mud.
- +switching tanks for longer/shorter decay and/or varied harmonic characteristics is as easy as changing socks. Albeit a tad more expensive
- prone to picking up noise/hum/hiss, unless placement is right.
- works bad with switching regulators for the same reason. hum, hiss...
- potentially works bad on small live stages with strong magnetic fields.
- prone to extreme resonance at some notes but not on others. More often a con than a pro.

Some things in these lists may vary in weight depending on production/playing style.

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015


Posts: 8287
Location: Brighton, UK

□ Posted: Thu Nov 28, 2013 10:23 am Post subject:

daluxer wrote:

Of course there is a difference, i just wasnt hearing it in the demo.

I think you need to rethink your listening environment or monitoring chain, they sound remarkably different to me! (That's not a qualitative

Thonk Synth DIY
Music Thing Modular - Spring Reverb - Digital vs Analog

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[Back to top](#)

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015


Posts: 1322
Location: London, England

□ Posted: Thu Nov 28, 2013 10:40 am Post subject:

Another version of the same experiment; starts with real spring:

MusicThing
Real Spring Reverb vs Belton BTDR-2H

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<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

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337is
Ultra Wiggler

□ Posted: Thu Nov 28, 2013 11:17 am Post subject:

 I just ordered a panel A kit option from Thonk as well as an Accutronics 9EB2C1B Reverb Tank and a Belton BTDR-2H-S Digital Reverb ! thread to learn how I can do this upgrade mentioned in the manual:

Quote:

"It is possible to build both spring and brick circuits, then attach a simple SPDT switch to the jumper to switch between the two reverb types.



So, so, so excited. This will be my first proper Eurorack DIY building experience. I've done a few non-module practice kits with my wife to 4 successful builds so far, hopefully this will make a fourth.



Edit: Maths

SCloud MGrid

Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

 Posts: 928
Location: SW MI

[Back to top](#)



Posted: Thu Nov 28, 2013 11:19 am Post subject:

Thanks! I think this kit will be a very good beginner soldering experience, it's really nicely laid out, only a tiny bit of wiring.

Easier than a Turing Machine to build I reckon and plenty of people built that successfully as their first ever kit.

Thonk - Modular Synth DIY + Eurorack Accessories Store



Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

[Back to top](#)



Posted: Thu Nov 28, 2013 11:46 am Post subject:

337is wrote:

Now I need to read through this thread to learn how I can do this upgrade mentioned in the manual:

Quote:

"It is possible to build both spring and brick circuits, then attach a simple SPDT switch to the jumper to switch between the two rev



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015

 Posts: 7177
Location: Vortexexaion, TN, USA

[Back to top](#)



Posted: Thu Nov 28, 2013 12:40 pm Post subject:

Can't wait to order!

Not seeing PCBs by themselves on Thonk at the moment.. Is there anyone in particular that should be contacted regarding naked boards?

Joined: 10 Nov 2012
Last Visit: 31 Oct 2014

 Posts: 316

[Back to top](#)



Posted: Thu Nov 28, 2013 12:52 pm Post subject:

I'll have loose boards for sale next week 

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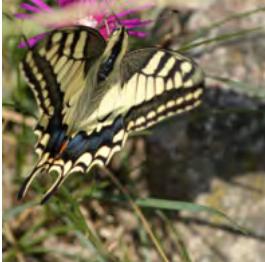


Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Rigo
Super Deluxe Wiggler



Joined: 27 Dec 2010
Last Visit: 08 Jan 2015

Posts: 1327
Location: Belgium

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Posted: Thu Nov 28, 2013 2:11 pm](#) Post subject:

Quote:

It's easy! Just build up both sections of the rear board. Wire the switch so that the center lug is attached to the center connector on the jump connections to their respective outer lugs. Then all you have to do is make sure you have both reverb options connected, and it'll work!

That doesn't sound too difficult at all ... I'll no need to figure out which switch I can easily pick up Stateside (I've ordered from Mouser before the front panel).

I'm also interested in possibly attempting the other mods mentioned in the manual ... breaking out the 100% wet and dry portions of the switch with specific Mouser parts?

Thanks for the encouragement **sduck!**

[/quote]

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde, vonbonenstein, & soundwave106

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Posted: Thu Nov 28, 2013 2:13 pm](#) Post subject:

Quote:

Thanks! I think this kit will be a very good beginner soldering experience, it's really nicely laid out, only a tiny bit of wiring.

Easier than a Turing Machine to build I reckon and plenty of people built that successfully as their first ever kit.

That is exciting news and helps a lot with my DIY intimidation factor. Thank you.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde, vonbonenstein, & soundwave106

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Thu Nov 28, 2013 2:29 pm Post subject:

So I'm pretty sure I will do a 4hp expander that will have the analog/digital switch, the 100% wet and dry out & feedback loop with attenuator.

But I reckon we're looking at Feb/March for that.

Thonk - Modular Synth DIY + Eurorack Accessories Store

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Thu Nov 28, 2013 2:31 pm Post subject:

Any of these switches will work, They're ordered so the cheapest are first

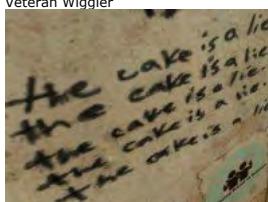
<http://uk.mouser.com/Search/Refine.aspx?Keyword=SPDT+toggle&Ns=Pricing%7c0&FS=True>

US version - <http://www2.mouser.com/Search/Refine.aspx?Keyword=spdt+toggle&Ns=Price%7c0&FS=True>

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[Back to top](#)

daluxer
Veteran Wiggler



Joined: 17 Nov 2012
Last Visit: 07 Jan 2015

Posts: 721
Location: Berlin

Posted: Thu Nov 28, 2013 2:40 pm Post subject:

wiring

[Back to top](#)

Stinktier86
Veteran Wiggler



Posted: Thu Nov 28, 2013 2:43 pm Post subject:

Yay for expanders!

Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

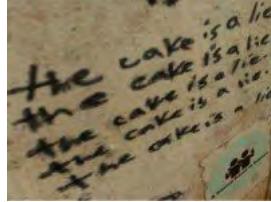


Posts: 741
Location: Gothenburg, Sweden

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daluexer
Veteran Wiggler



Joined: 17 Nov 2012
Last Visit: 07 Jan 2015



Posts: 721
Location: Berlin

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Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015



Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

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horstronic
Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015



Posts: 756
Location: Germany

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BBlack
Wiggling with Experience

Joined: 10 Nov 2012
Last Visit: 31 Oct 2014



Posts: 316



[Back to top](#)

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Posted: Thu Nov 28, 2013 2:51 pm Post subject:

Monobass/Thonk, would you mind adding it to modulargrid?

Posted: Thu Nov 28, 2013 3:17 pm Post subject:

Monobass wrote:

So I'm pretty sure I will do a 4hp expander that will have the analog/digital switch, the 100% wet and dry out & feedback loop with attenuator of.

Now he tells me. Well anyway, *ordered*, with the RCA-jack front panel onto which I can bodge a 100% wet out and a digital/spring switch.

Got the medium BTDR-2H and a Tube Amp Doctor 9EB2C1B.

Plan to put a little stripboard 072 buffer hanging precariously off the back of the wet output.

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[User profile](#) | [Send pm](#)

Posted: Thu Nov 28, 2013 4:04 pm Post subject:

Monobass wrote:

So I'm pretty sure I will do a 4hp expander that will have the analog/digital switch, the 100% wet and dry out & feedback loop with attenuator of.

But I reckon we're looking at Feb/March for that.

This is gonna be awesome!

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

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Posted: Thu Nov 28, 2013 4:55 pm Post subject:

Monobass wrote:

I'll have loose boards for sale next week 😊

[User profile](#) | [Send pm](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

clusterchord
Veteran Wiggler



Joined: 07 Sep 2010
Last Visit: 07 Jan 2015

Posts: 729
Location: Zagreb, Croatia

Posted: Thu Nov 28, 2013 5:32 pm Post subject:

Nantonos wrote:

Monobass wrote:

So I'm pretty sure I will do a 4hp expander that will have the analog/digital switch, the 100% wet and dry out & feedback loop with break into the path of.

Now he tells me. Well anyway, *ordered*, with the RCA-jack front panel onto which I can bodge a 100% wet out and a digital/sprir

Well I did mention it a few pages back too

But you guys will always be able to react quicker to things like this than I can be producing kits, and I'm interested to see what people do v

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Posted: Thu Nov 28, 2013 9:47 pm Post subject:

Monobass wrote:

So I'm pretty sure I will do a 4hp expander that will have the analog/digital switch, the 100% wet and dry out & feedback loop with attenuat of.

But I reckon we're looking at Feb/March for that.

hooray for the expander - this deal gets better by the minute i've spent last cpl of pages straining my brain, wondering how to pull th stuff like a199 can and insert stuff into the loop..

i wonder what would happen if i connected an analog guitar pedal like phaser to the RCA jacks (typical input is 500k - 1M, output 10kOhm) interface for pedals if it worked. are the figures for the input and output impedance at RCA jacks known?

i also find the difference btwn the digi brick and the spring unmistakeable, but i'm considerg getting two different sounding springs, maybe and add a switch for this.

one thing puzzles me tho; after reading your quick manual on behaviour of spring tanks and inherent hiss, positioning etc, i wonder about t posted:

they show marked difference in character and level of background noise. the first example (Thonk kit) exhibits some kind of sharp buzzing second example (alough tad darker and lower in volume) behaves as it should - smooth and acceptably quiet. earlier Tombola examples lil exhibit the buzz. i mean, i got some springs in the studio, and there's no buzz like that either.

can this be avoided, and what is it dependant on?

what confuses me further is - the buzzing is present on both the digital and analog reverb portions of the first example, so it obviously isn't spring reverb.

Monobass wrote:

The one in this demo is the Medium, I've not tried the long.
[s]<http://soundcloud.com/thonksynth/music-thing-modular-spring>[/s]

Tombola wrote:

Another version of the same experimenter; starts with real spring:
[s]<http://soundcloud.com/musictesting/real-spring-reverb-vs-belton>[/s]

thanks

www.babic.com/
nimbus dei @ myspace

euro: 109615 109627

WTB: Dixie v1 - Mungo w0 - stg com

FS: MN Echophon - Waldorf Microwave - Maxon PT9 Pro+ phaser - polyDAC midi PCB 5U

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[Back to top](#)

337is
Ultra Wiggler

Posted: Fri Nov 29, 2013 8:15 am Post subject:

Quote:

So I'm pretty sure I will do a 4hp expander that will have the analog/digital switch, the 100% wet and dry out & feedback loop with attenuat of.

But I reckon we're looking at Feb/March for that.



This sounds promising. If I build the kit now and wait for your expansion kit in the spring, do you think it'd be easy to mate the pair later?] that's the case. 😊

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

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Posted: Fri Nov 29, 2013 8:15 am Post subject:

Quote:

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Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

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Posted: Fri Nov 29, 2013 8:16 am Post subject:

Well, my excuse for a second duplicate post is the food stupor I'm stumbling around in after American Thanksgiving ... seconds was the orc

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)

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Posted: Fri Nov 29, 2013 10:19 am Post subject:

daluxer wrote:

Monobass/Thonk, would you mind adding it to modulargrid?

Lots of panel photos around but none that are square-on.

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

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Posted: Fri Nov 29, 2013 10:46 am Post subject:

clusterchord wrote:

one thing puzzles me tho; after reading your quick manual on behaviour of spring tanks and inherent hiss, positioning etc, i wonder about thi

Monobass
thonk.co.uk



posted:

are you talking about an intermittent buzzing? there are certainly parts where the pitch of the oscillator goes so low it's buzzing. Can you p it's particularly present?

Thonk - Modular Synth DIY + Eurorack Accessories Store

Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

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Posted: Fri Nov 29, 2013 10:47 am Post subject:

337is wrote:

Quote:

So I'm pretty sure I will do a 4hp expander that will have the analog/digital switch, the 100% wet and dry out & feedback loop with break into the path of.

But I reckon we're looking at Feb/March for that.

This sounds promising. If I build the kit now and wait for your expansion kit in the spring, do you think it'd be easy to mate the p my own mods if that's the case. 😊

yeah it'll be easy to integrate whether you do anything or not 😊

Thonk - Modular Synth DIY + Eurorack Accessories Store

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Posted: Fri Nov 29, 2013 11:04 am Post subject:

clusterchord wrote:

i wonder what would happen if i connected an analog guitar pedal like phaser to the RCA jacks (typical input is 500k - 1M, output 10kOhm) : modular interface for pedals if it worked. are the figures for the input and output impedance at RCA jacks known?

The drive circuitry for the spring reverb is a constant current drive and I don't think it would really be suitable for a guitar pedal which is ex high impedance. You might be better driving the pedal from a resistive divider to get it down to pedal-compatible levels and to give a high honest.

An output impedance of 10k is higher than usual for modular, but the recovery circuit is also expecting a high impedance and low level sign so it might work. However, the spring transducer is reactive: the output impedance (2.575 kΩ at 1kHz) and the DC output resistance (215

Are the guitar pedal impedances resistive, and if not are they quoted at a particular frequency?

Because of the two-board approch on this module, keeping the front vactrol mixer board and making a new, guitar pedal driver/recovery re you might want to use rear-panel connectors to case-mounted 1/4" TS jack sockets, as a more usual guitar pedal interface.

[ondes](#) | [current rack](#)

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

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Posted: Sat Nov 30, 2013 4:58 am Post subject:

Nantonos wrote:

clusterchord wrote:

i wonder what would happen if i connected an analog guitar pedal like phaser to the RCA jacks (typical input is 500k - 1M, output 1 like the ideal modular interface for pedals if it worked. are the figures for the input and output impedance at RCA jacks known?



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

The drive circuitry for the spring reverb is a constant current drive and I don't think it would really be suitable for a guitar pedal v voltage signal from a high impedance. You might be better driving the pedal from a resistive divider to get it down to pedal-comp output impedance. 🤔 not sure to be honest.

An output impedance of 10k is higher than usual for modular, but the recovery circuit is also expecting a high impedance and low up to modular levels, so it might work. However, the spring transducer is reactive: the output impedance (2.575 kΩ at 1kHz) and Ω) are very different.

Are the guitar pedal impedances resistive, and if not are they quoted at a particular frequency?

Because of the two-board approch on this module, keeping the front vactrol mixer board and making a new, guitar pedal driver/r interesting option. Though you might want to use rear-panel connectors to case-mounted 1/4" TS jack sockets, as a more usual c

Definitely don't try to use the spring drive/return to drive guitar pedals, but you could build a simple circuit on perfboard (like the Ken Ston the 5 pin header in this module - replacing the rear board - then you'd have CV-able and EQ-able send out to your stompboxes.

That's a great idea, I might try it...

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

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tronabetes
Wiggling with Experience



Joined: 03 Dec 2011
Last Visit: 07 Jan 2015

Posts: 352
Location: Chicago, IL

Posted: Sat Nov 30, 2013 2:18 pm Post subject:

damn, just went to get this... out of stock 😞

[Back to top](#)

clusterchord
Veteran Wiggler



Joined: 07 Sep 2010
Last Visit: 07 Jan 2015

Posts: 729
Location: Zagreb, Croatia

Posted: Sat Nov 30, 2013 2:21 pm Post subject:

Monobass wrote:

clusterchord wrote:

one thing puzzles me tho; after reading your quick manual on behaviour of spring tanks and inherent hiss, positioning etc, i wonder examples you guys posted posted:

are you talking about an intermittent buzzing? there are certainly parts where the pitch of the oscillator goes so low it's buzzing. i file where you feel it's particularly present?

well it's present all the time.

however now that you mention it, after careful re-listening it seems there's some in the source signal (in the DRY passages). what confused passages, so i thought its coming from reverb circuitry or there's some grounding issue..

sounds we make on analogs are sometimes so close in character to noise or grounding artifacts that it can be hard to tell what is what.

edit: crap, now its out of stock. so soon? 😞

Tombola wrote:

Nantonos wrote:

The drive circuitry for the spring reverb is a constant current drive and I don't think it would really be suitable for a guitar pedal wh voltage signal from a high impedance. You might be better driving the pedal from a resistive divider to get it down to pedal-compat high output impedance. 😊 not sure to be honest.

An output impedance of 10k is higher than usual for modular, but the recovery circuit is also expecting a high impedance and low level boosted up to modular levels, so it might work. However, the spring transducer is reactive: the output impedance (2.575 kΩ at 1kΩ resistance (215 Ω) are very different.

Are the guitar pedal impedances resistive, and if not are they quoted at a particular frequency?

Because of the two-board approach on this module, keeping the front vactrol mixer board and making a new, guitar pedal driver/rec interesting option. Though you might want to use rear-panel connectors to case-mounted 1/4" TS jack sockets, as a more usual guitar

Definitely don't try to use the spring drive/return to drive guitar pedals, but you could build a simple circuit on perfboard (like the and connect it to the 5 pin header in this module - replacing the rear board - then you'd have CV-able and EQ-able send out to your stompboxes).

That's a great idea, I might try it...

thanks Nantonos and Tombola, for clearing that up.

yes a version of this module geared specifically for pedals would be AWESOME. and solve an everpresent problem in connecting these two modules. it could be put to good use.

tho, im not sure if CGS circuit can accommodate various scenarios in pedal world. something involving a transformer should work best, like

switch for two different output impedances that would be even better, so you can emulate passive pickup (6 - 10k output Z) like strat and t pickups, for example. going back input of 1M seems to be standard (on preamps, on git amps).

beside the cv and xf controls, think ideally there should be a pot for attenuation of output and gain control on input.

thanks



euro: 109615 109627

WTB: Dixie v1 - Mungo w0 - stg com

FS: MN Echophon - Waldorf Microwave - Maxon PT9 Pro+ phaser - polyDAC midi PCB 5U

Last edited by clusterchord on Sat Nov 30, 2013 2:31 pm; edited 2 times in total

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Sat Nov 30, 2013 2:29 pm Post subject:

tronabetes wrote:

damn, just went to get this... out of stock ☹

clusterchord wrote:

edit: crap, now its out of stock. so soon? 🙁

Still plenty of stock *without* knobs in both panel types.

I've had a supply delay in my restock of the regular black davies 1900hs.

Thonk - Modular Synth DIY + Eurorack Accessories Store

Last edited by Monobass on Sat Nov 30, 2013 2:36 pm; edited 1 time in total

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Sat Nov 30, 2013 2:31 pm Post subject:

If anyone wants to order the 'no knobs' version but also grab the bigger wet/dry knob off me then drop me a PM with your order number... order the no knobs version... but have me ship it with all the knobs but in very late December, then let me know about that too.

Thonk - Modular Synth DIY + Eurorack Accessories Store

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tronabetes
Wigglng with Experience



Joined: 03 Dec 2011
Last Visit: 07 Jan 2015

Posts: 352
Location: Chicago, IL

Posted: Sat Nov 30, 2013 3:08 pm Post subject:

ah, didn't see that.

cool!, ordered.

Joined: 03 Dec 2011
Last Visit: 07 Jan 2015

Posts: 352
Location: Chicago, IL

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sabasan
Common Wigglger



Joined: 25 Jul 2008
Last Visit: 07 Jan 2015

Posted: Sat Nov 30, 2013 4:49 pm Post subject:

could I put the Accutronics 9EB2C1B
inside the deeper portable case ???
thanks



Posts: 150

[Back to top](#)

sam
Wiggling with Experience



Joined: 09 Jun 2009
Last Visit: 30 Dec 2014

Posts: 317
Location: Sur la route!

□ Posted: Sat Nov 30, 2013 5:49 pm Post subject:

sabasan wrote:

could I put the Accutronics 9EB2C1B
inside the deeper portable case ???
thanks

In my experience with various Spring Reverbs, it is not a good idea to have it next to power supply or circuits and to not be able to move external cinch connectors kit.

That's a thing to consider.

https://soundcloud.com/slo_man/insomnia-slo-man-feat-bunnie

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

□ Posted: Sat Nov 30, 2013 6:42 pm Post subject:

Quote:

yeah it'll be easy to integrate whether you do anything or not

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

horstronic
Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

Posts: 756
Location: Germany

□ Posted: Sun Dec 01, 2013 4:47 pm Post subject:

Just ordered my Kit
So from now on I'm sitting at the window, waiting for the postman 😊

How long does it usually take to get a kit to germany?
Can't wait!

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

□ Posted: Sun Dec 01, 2013 4:54 pm Post subject:

These start shipping Tues-Weds, I don't usually do it but I'll be prioritising shipping to my most far-flung customers first (Australia, Japan, I
The idea being that everyone who ordered should get it before xmas.

I reckon anyone who has already ordered in Germany should get it by the 13th December latest.... but shipping is already taking plenty long

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[Back to top](#)

horstronic
Ultra Wiggler

□ Posted: Sun Dec 01, 2013 5:01 pm Post subject:

Monobass wrote:

I reckon anyone who has already ordered in Germany should get it by the 13th December latest.... but shipping is already taking plenty long



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

Posts: 756
Location: Germany

Awesome !!!

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

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radiokoala
must. build. jacuzzi

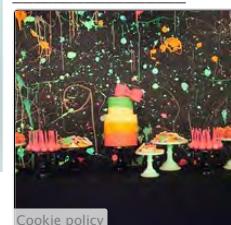


Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

Posted: Tue Dec 03, 2013 4:25 am Post subject:

This is going to be my second DIY project - looking very much forward building it! Really enjoying that it could be used as an x-fader too - I lot of difference in my small 3U system 😊 Only thing left to do is wait for PCB/panel option to appear - kits are cool, but part of fun for me



radiokoala
Birthday Session



[Back to top](#)

[profile](#) [pm](#)

Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741
Location: Gothenburg, Sweden

radiokoala wrote:

This is going to be my second DIY project - looking very much forward building it! Really enjoying that it could be used as an x-fader too - re make a lot of difference in my small 3U system 😊 Only thing left to do is wait for PCB/panel option to appear - kits are cool, but part of fur store. 😊

USER TIP: More than that! Plug a dummy into the x-fade, which will break the connection and you'll have a vactrol ducker (ie. crude sidechain) an amplitude follower, such as the a-119 ext. in. With a subtle slew in-between, one should be able to get some nice pumping/breathing dynamics.

EDIT: With the same signal going into the a-119 (then slewed) and the reverb in this particular setup, you actually have all the key elements

Last edited by Stinktier86 on Tue Dec 03, 2013 6:10 am; edited 1 time in total

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Stinktier86 wrote:

USER TIP: More than that! Plug a dummy into the x-fade, which will break the connection and you'll have a vactrol ducker (ie. crude sidechain) requires an amplitude follower, such as the a-119 ext. in. With a subtle slew in-between, one should be able to get some nice pumping/breathin



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[Back to top](#)
radiokoala
must. build. jacuzzi

Posted: Tue Dec 03, 2013 6:26 am Post subject:

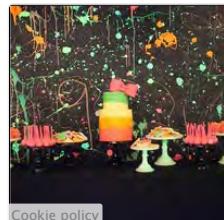
Great irony in that is it was me who contributed a vactrol ducker patch to the Positronic Transient Gate patchbook 😊



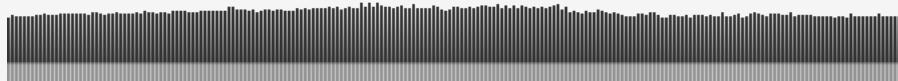
Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

Well, still great suggestion - I will be able to do it more than one way now!!!



radiokoala
Birthday Session



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Soundcloud

[Back to top](#)

Zergon
Common Wigglar



Joined: 09 Nov 2010
Last Visit: 06 Jan 2015

Posts: 171
Location: Slovenia

Posted: Tue Dec 03, 2013 6:33 am Post subject:

wow, cool!

<http://soundcloud.com/zergonn>

[Back to top](#)

CometxYh1n1egyPt
Common Wigglar

Joined: 25 Mar 2011
Last Visit: 02 Dec 2014

Posts: 122

Posted: Tue Dec 03, 2013 9:45 am Post subject:

I already ordered one but was wondering if there are plans to do another run of these once they sell out in the future??

Thanks,
Luke

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Tue Dec 03, 2013 9:53 am Post subject:

CometxYh1n1egyPt wrote:

I already ordered one but was wondering if there are plans to do another run of these once they sell out in the future??

Thanks,
Luke

yeah there is.

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[Back to top](#)

CometxYh1n1egyPt
Common Wigglar

Joined: 25 Mar 2011
Last Visit: 02 Dec 2014

Posts: 122

Monobass wrote:

CometxYh1n1egyPt wrote:

I already ordered one but was wondering if there are plans to do another run of these once they sell out in the future??

Thanks,
Luke

yeah there is.

Great to know. I'll definitely want to build more of them in the future

[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Tue Dec 03, 2013 10:38 am Post subject:

The kits will come in and out of stock, quite hard to negate that with only one pair of hands, the PCBs should be less interrupted once this is

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

Posted: Tue Dec 03, 2013 10:27 pm Post subject:

OOh, I see this is a real module, now.

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

Peake
I'm in ur DIY. Filling cases with Buchla



Do you have any aspirin?

Joined: 07 Nov 2008
Last Visit: 22 Jan 2015

Posts: 3408
Location: Los Angeles

[Back to top](#)

Posted: Wed Dec 04, 2013 12:13 am Post subject:



I just can't help imagining that this would be better with vactrols

Joined: 07 Nov 2008
Last Visit: 22 Jan 2015

Posts: 3408
Location: Los Angeles

[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009

Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Wed Dec 04, 2013 1:58 am Post subject:

Nantonos wrote:

OOh, I see this is a real module, now.

Thanks to yvnb for doing that. I'll get a better image when I get a chance.

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Joined: 29 May 2009

Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Wed Dec 04, 2013 12:02 pm Post subject:

Is the current draw on -12V really zero? I know that some of the circuitry is on +5V so the draw on +12V will be greater if it is feeding a -amp buffers drinking from the -12V rail?

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

 Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

 Posts: 1322
Location: London, England

 Posted: Wed Dec 04, 2013 12:17 pm Post subject:

Nantonos wrote:

Is the current draw on -12V really zero? I know that some of the circuitry is on +5V so the draw on +12V will be greater if it is feeding a +5 op amp buffers drinking from the -12V rail?

That's right, but I don't remember exactly what the -12v draw was.

The +5v only applies for the Brick, not the Spring. I know that the Brick draws a considerable amount of current - the datasheet says 60-110mA for the whole module.

The spring was much lower - 25mA overall.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

 Posts: 1024
Location: Côte d'Azur, France

 Posted: Wed Dec 04, 2013 6:22 pm Post subject:

Tombola wrote:

Nantonos wrote:

Is the current draw on -12V really zero? I know that some of the circuitry is on +5V so the draw on +12V will be greater if it is feeding a +5 op amp buffers drinking from the -12V rail?

That's right, but I don't remember exactly what the -12v draw was.

The +5v only applies for the Brick, not the Spring. I know that the Brick draws a considerable amount of current - the datasheet says 60-110mA for the whole module.

The spring was much lower - 25mA overall.

I just added the clarifying text, will hold off on the module duplication for now.

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

EMwhite
Super Deluxe Wiggler



 Posted: Wed Dec 04, 2013 10:34 pm Post subject:

Eagerly awaiting availability of the bare boards so I can buy qty. 6 or 7. (I think I read tomorrow or Friday) but the point of this is to suggest a candidate for DIY project of the year again.

Still get tons of use out of my Turing + Pulses add-on; amazing attention to detail and the reverb looks to be more of the same, can't wait

Beware of programmers with screwdrivers...

Joined: 08 Feb 2012
Last Visit: 07 Jan 2015

 Posts: 1602
Location: NY Metro area

[Back to top](#)[profile](#) [pm](#)**Spip**
Common WigglerJoined: 19 Jun 2013
Last Visit: 01 Jan 2015 Posts: 159**EMwhite wrote:**

Eagerly awaiting availability of the bare boards...

+1 [Back to top](#)[profile](#) [pm](#)**BBlack**
Wiggling with ExperienceJoined: 10 Nov 2012
Last Visit: 31 Oct 2014 Posts: 316**Spip wrote:****EMwhite wrote:**

Eagerly awaiting availability of the bare boards...

+1 

I too, yes indeed!

[Back to top](#)[profile](#) [pm](#)**broon_777**
Learning to WiggleJoined: 23 Mar 2013
Last Visit: 07 Jan 2015 Posts: 31
Location: Leeds, UK

I got my kit yesterday morning and in a fit of excitement (impatience?) put it together right away...calibrated with reverb tank as per instru sounded absolutely fantastic with the modular (and even more so with a guitar) but I started getting distortions and cut outs after a few mi swapped a few out...even replaced one of the jacks.. but problem only stopped when I pushed the OUT jack to the right slightly. Tip brush signal came right back...

When I took it apart it to check socket again it looks like the metal ground shield covering the socket was slightly touching the MIX output & the output to short out. Swapped the jack & made sure there was a little more clearance this time and all seems well again.

Hope this helps if anyone has a similar issue when they build theirs from the kit...

Many thanks to Tombola for this amazing reverb project / documentation and thanks to Monobass for the excellent kit!!

It is easily the best sounding spring reverb I have ever used and was a breeze to put together (apart from my jack blunder!)

[Back to top](#)[profile](#) [pm](#)**337is**
Ultra WigglerJoined: 29 Feb 2012
Last Visit: 22 Jan 2015 Posts: 928
Location: SW MI**337is**
Ultra Wiggler

So, perhaps some of you are better mental visualizers than I am. I was really surprised how big the spring tank is compared to the digital t the sizes of the two which I took delivery of yesterday. Now just need the kit from Thonk (which is winging it's way across the Atlantic as I



SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

radiokoala
must. build. jacuzzi



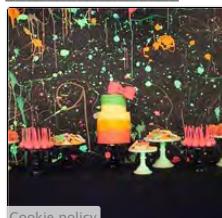
Joined: 18 Oct 2011
Last Visit: 22 Jan 2015



Posts: 1530

Posted: Fri Dec 06, 2013 8:08 am Post subject:

Yea, this tank is huge. It looks like you can screw your 2U modules directly into it 😊



radiokoala
Birthday Session



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[Back to top](#)

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EMwhite
Super Deluxe Wiggler



Joined: 08 Feb 2012
Last Visit: 07 Jan 2015

Posts: 1602
Location: NY Metro area

[Back to top](#)

Posted: Fri Dec 06, 2013 8:17 am Post subject:

The 8EB2C1B is 1" narrower and nearly 1/2 the length. May be a better choice depending on space constraints. I bought the MOD but it's b
I haven't tried it with this MusicThing driver, only with the DIY version that Tom published here a year ago. I'm sure an A/B would yield a d
use it in my DIY guitar pedal based on the new board once made available.

Beware of programmers with screwdrivers...

Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

Posted: Fri Dec 06, 2013 8:23 am Post subject:

No real complaint on my part about the size of the tank as my Goike case will easily accommodate it. Might even be able to squeeze in two
I'd share my findings for those who might find it useful.

Good to know about the smaller tanks too. :-)

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde, vonbonenstein, & soundwave106



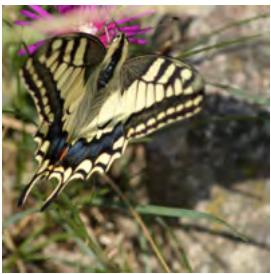
Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[profile](#) [pm](#)

Rigo
Super Deluxe Wiggler

Posted: Fri Dec 06, 2013 8:43 am Post subject:



Joined: 27 Dec 2010
Last Visit: 08 Jan 2015

Posts: 1327
Location: Belgium

337is wrote:

So, perhaps some of you are better mental visualizers than I am. I was really surprised how big the spring tank is compared to the digital bri comparing the sizes of the two which I took delivery of yesterday. Now just need the kit from Thonk (which is winging it's way across the Atla afoot!



For some strange reasons the same things arrived at my home this week 😊

[Back to top](#)

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Posted: Fri Dec 06, 2013 8:50 am Post subject:

Must be great minds thinking alike Rigo! 😊

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)

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patilon
Veteran Wiggler



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015



Posts: 590
Location: Germany

□ Posted: Fri Dec 06, 2013 9:24 am Post subject:

have some questions...

>Vactrol (VTL5C3) crossfade between dry and wet (vactrol circuits are >variable in their ability to go completely 100% wet, like the Make I so it actually doesn't go 100% wet? ☺

anywhere in this thread it was talked about two different vactrols (slower/faster). which one is now included within the kit?

I'd be interested in a Front RCA Panel but with installation of the RCA-Jacks at the pcb (using the hole at the panel for wet-output and a t which are included in the Front RCA Panel Kit appropriate for pcb mount as well?

any opinions about the longer/shorter decay brick-versions so far?

thanks!

www.myspace.com/reejklynur www.myspace.com/reejklynurmotionpictures

[Back to top](#)

Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014



Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

□ Posted: Fri Dec 06, 2013 9:51 am Post subject:

Haven't ordered bricks yet but i think i'd like to have as short decay as possible, to diffentiate them from my long decay springs. Not sure, i

Joined: 26 Aug 2012
Last Visit: 28 Dec 2014



Posts: 741
Location: Gothenburg, Sweden

radiokoala
must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015



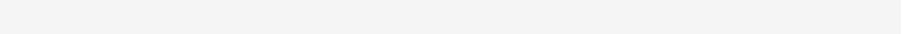
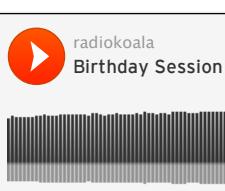
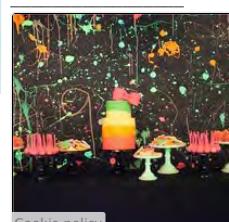
Posts: 1530

□ Posted: Fri Dec 06, 2013 10:09 am Post subject:

Stinktier86 wrote:

Haven't ordered bricks yet but i think i'd like to have as short decay as possible, to diffentiate them from my long decay springs. Not sure, th

Then one advice: on ebay there are options for medium and long decay times, however if you get one from e.g here, it will be a short (2.0 options ☺



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[Back to top](#)

patilon
Veteran Wiggler

□ Posted: Fri Dec 06, 2013 10:35 am Post subject:

i found the sound-examples (brick vs. spring) totally different regarding the transparency (total apart from the decay), but having a 4 way and the spring would be quite amazing ☺

**Quote:**

however if you get one from e.g here, it will be a short (2.0 sec) version

thanks radiokoala, great tipp! will save me the extra-shipping costs from uk

www.myspace.com/reejklynur www.myspace.com/reejklynurmotionpictures

Joined: 25 Aug 2011
Last Visit: 08 Jan 2015



Posts: 590
Location: Germany

[Back to top](#)

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015



Posts: 164

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

Posted: Fri Dec 06, 2013 10:56 am Post subject:

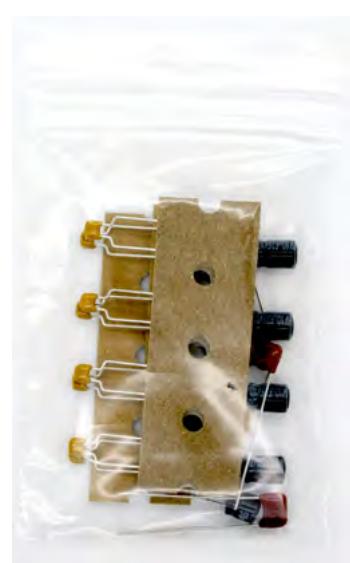
337is wrote:

Must be great minds thinking alike Rigo! 😊

Mine arrived as well, and given I bought both, I was thinking the same thing, haha. Can't wait for the kit to get here and put it all together!

Posted: Fri Dec 06, 2013 11:36 am Post subject:

The Thonk build doc will probably be ready next week (a bit earlier than expected), in the meantime this will help



10uF x4

C2, C12, C14, C17



33nF x2
C6, C7



22uF x1
C8

100n x8

C4, C5, C10, C11, C15, C16, C18, C19



FUSE x2

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[Back to top](#)[profile](#) [pm](#) [email](#)**sduck**
WTF?Joined: 18 Feb 2009
Last Visit: 22 Jan 2015Posts: 7177
Location: Vortexexiaon, TN, USA

Posted: Fri Dec 06, 2013 12:28 pm Post subject:

patilon wrote:

have some questions...

>Vactrol (VTL5C3) crossfade between dry and wet (vactrol circuits are >variable in their ability to go completely 100% wet, like the Make No so it actually doesn't go 100% wet?)

Out of the box the mix control doesn't go 100% wet. This is apparently the result of a design compromise - you can have a mix control that doesn't go 100% wet, or you can have it go to 100% (or closer to 100%) wet, but the fade range is much smaller and harder to control. Yc value of R11 - it's 2.2K stock, but if you lower it the led in the vactrol (and the outboard one) light up more, which affects the mix. I experi you're planning on using the X-fade function a lot, having better control over the mix wins out (for me at least), so I went back to the 2.2K

There is an option for a separate full wet output on the pcb though. I've brought that to the front panel in my design.

patilon wrote:

anywhere in this thread it was talked about two different vactrols (slower/faster). which one is now included within the kit?

If it's still a VTL5C3, it's a fast one. That's what I got.

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

[Back to top](#)[profile](#) [pm](#)**Monobass**
thonk.co.ukJoined: 29 May 2009
Last Visit: 06 Jan 2015Posts: 8287
Location: Brighton, UK

Posted: Fri Dec 06, 2013 12:49 pm Post subject:

The Thonk kit ships with a VTL5C3.

The planned expander will bring a buffered wet out to the panel.

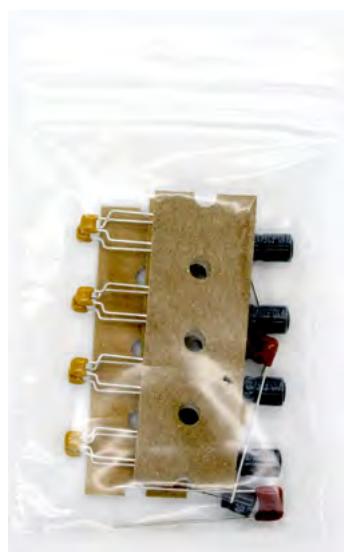
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thonk.co.ukJoined: 29 May 2009
Last Visit: 06 Jan 2015Posts: 8287
Location: Brighton, UK

Posted: Fri Dec 06, 2013 12:55 pm Post subject:

Build pics in lieu of the build document (coming the end of next week).

If you're not sure about anything you should wait for the build doc.

**10uF x4**

C2, C12, C14, C17

33nF x2

C6, C7

22uF x1

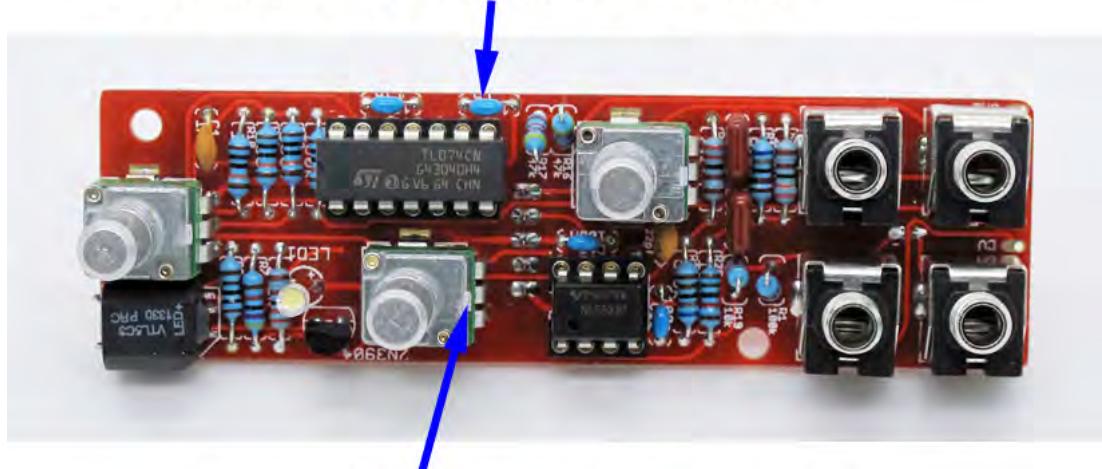
C8

100n x8

C4, C5, C10, C11, C15, C16, C18, C19

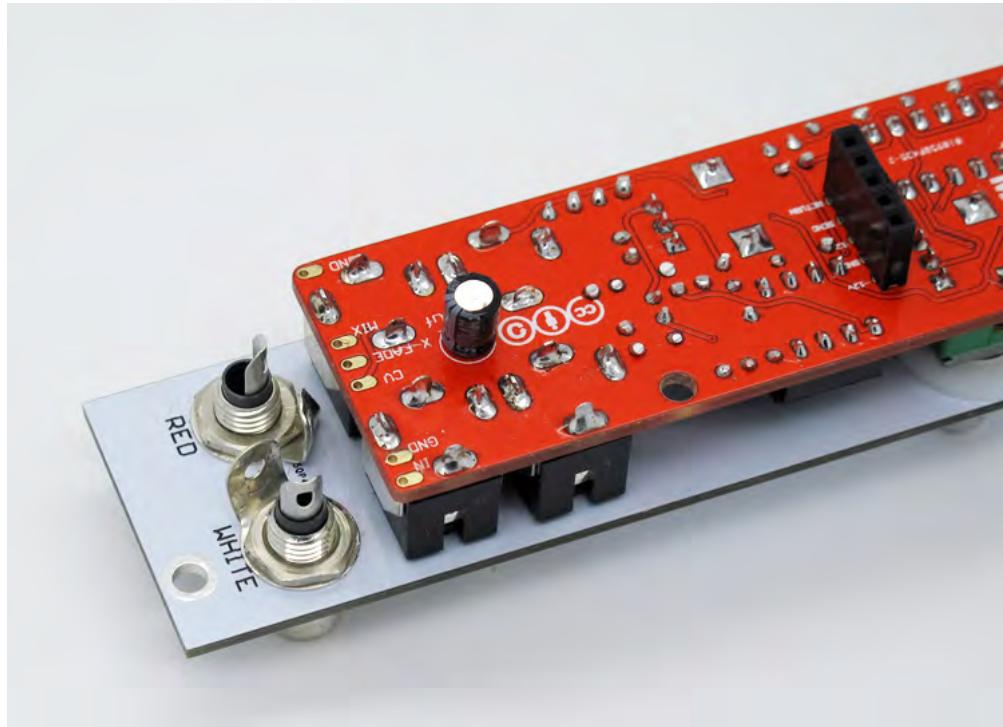
FUSE x2

**100n capacitors shown as blue here,
in Thonk kit they are mustard coloured.**

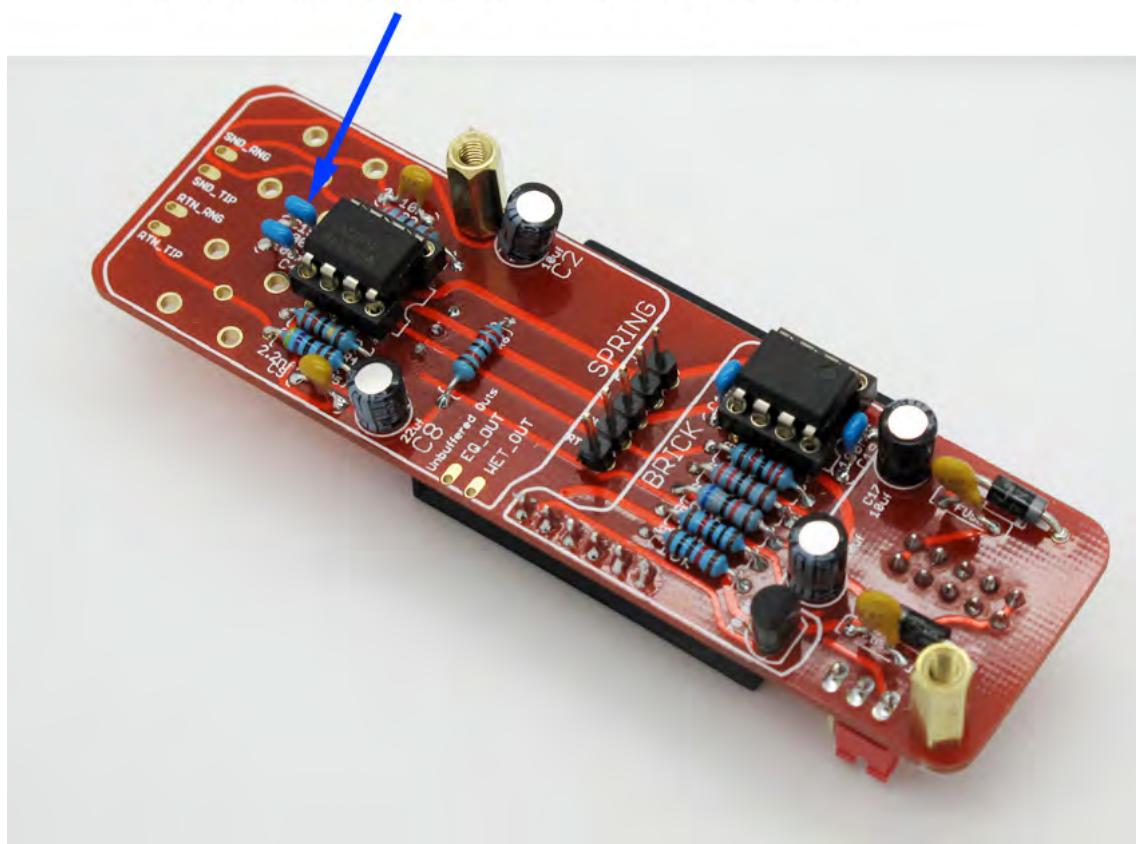


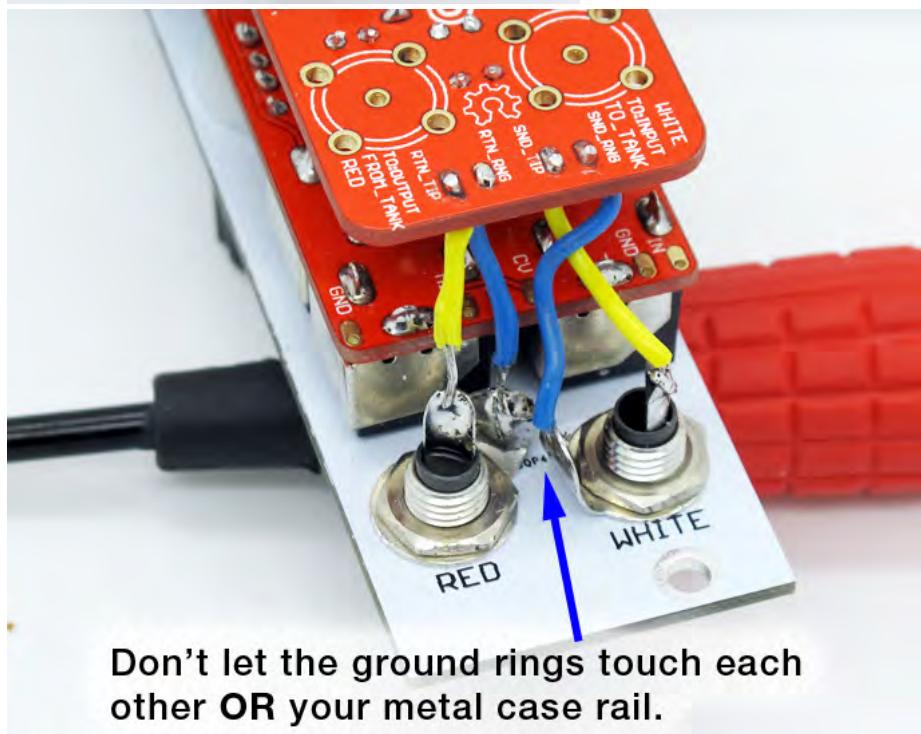
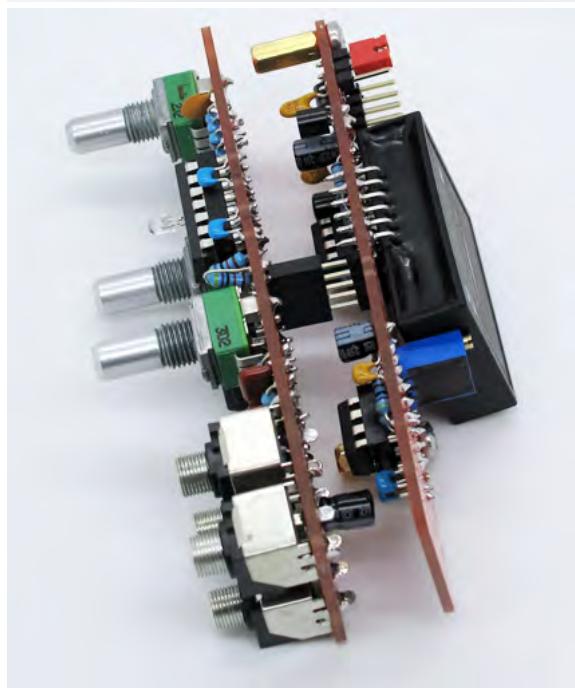
**Remove tabs from pots, place white
plastic washer between pot and board**





100n capacitors shown as blue here,
in Thonk kit they are mustard coloured.





Don't let the ground rings touch each other OR your metal case rail.

[Back to top](#)

patilon
Veteran Wiggler



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

Posts: 590
Location: Germany

Posted: Fri Dec 06, 2013 1:06 pm Post subject:

thanks!

i posted another question about the rca-jacks, if someone knows!?

Quote:

I'd be interested in a Front RCA Panel but with installation of the RCA-Jacks at the pcb (using the hole at the panel for wet-output and a tar jacks which are included in the Front RCA Panel Kit appropriate for pcb mount as well?

www.myspace.com/reejklynur www.myspace.com/reejklynurmotionpictures

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

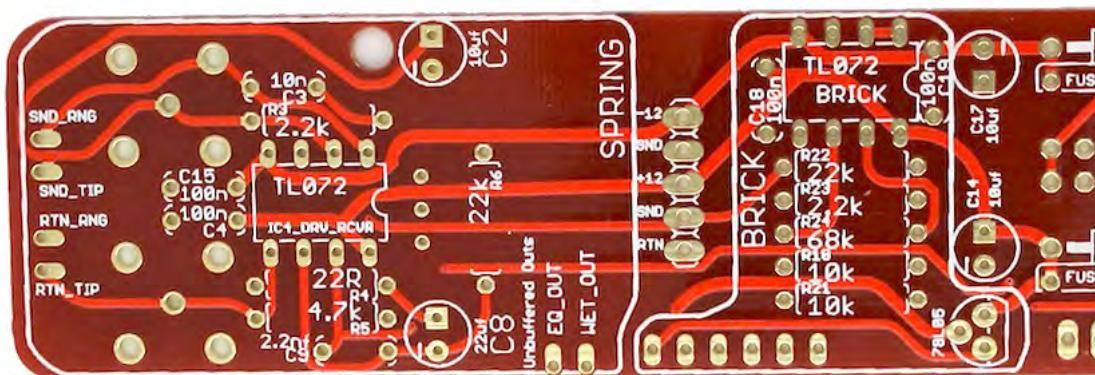
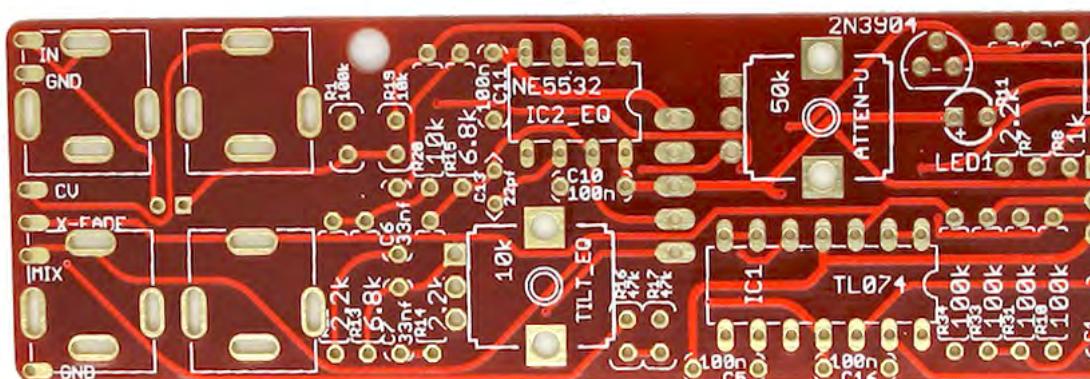
Posts: 8287
Location: Brighton, UK

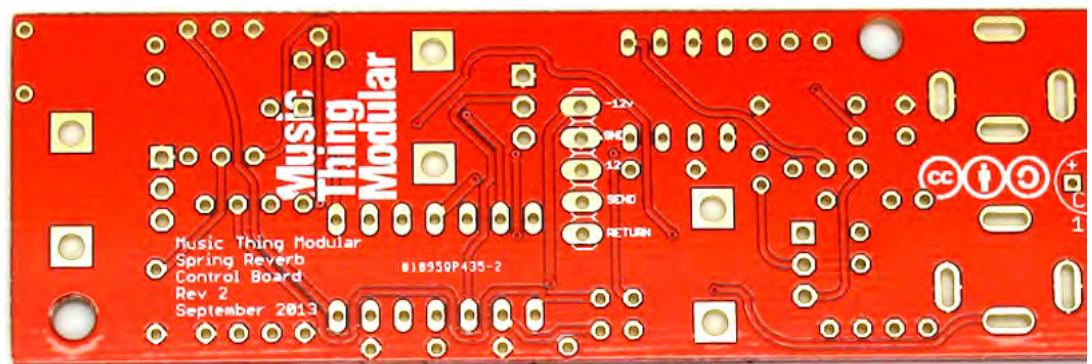
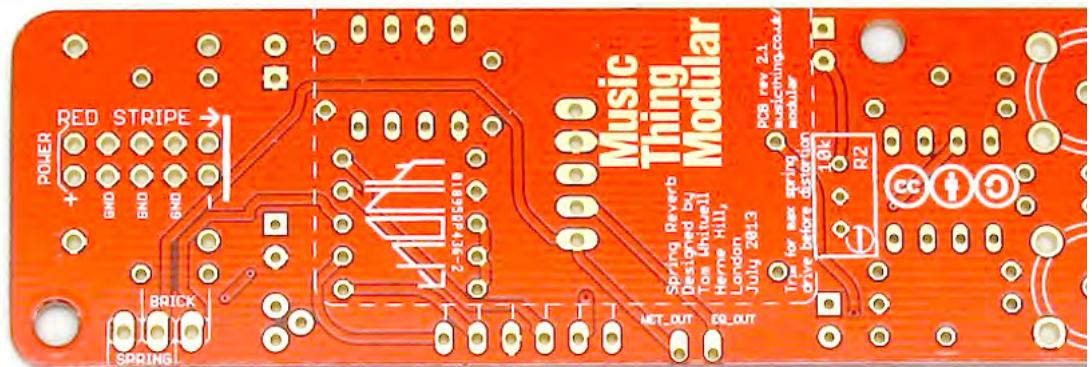
Posted: Fri Dec 06, 2013 1:17 pm Post subject:

loose PCBs now for sale too

<http://www.thonk.co.uk/shop/music-thing-modular-spring-pcb-set/>

Loose Euro panel restock coming in Jan.





Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

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BBlack
Wiggling with Experience

Joined: 10 Nov 2012
Last Visit: 31 Oct 2014

Posts: 316

[Back to top](#)

Posted: Fri Dec 06, 2013 1:32 pm Post subject:

Bought me some boards!

Been quite excited for this for some time - much thanks to all involved.

[profile](#) [pm](#)

Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: CÃ'te d'Azur, France

Posted: Fri Dec 06, 2013 1:49 pm Post subject:

patilon wrote:

thanks!

i posted another question about the rca-jacks, if someone knows!?

Quote:

I'd be interested in a Front RCA Panel but with installation of the RCA-Jacks at the pcb (using the hole at the panel for wet-output are these RCA jacks which are included in the Front RCA Panel Kit appropriate for pcb mount as well?)

Oh, good question; I had simply assumed they would fit and looking at these photos the panel mount and PCB-mount RCA jack sockets are although since this is inside the case I could just solder on shielded cable direct to the pcb-mount pads and use the sockets on the other end small panel.

[ondes | current rack](#)

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

Nantonos
 Super Deluxe Wiggler

 Joined: 03 Mar 2013
 Last Visit: 22 Jan 2015

 Posts: 1024
 Location: Côte d'Azur, France

□ Posted: Fri Dec 06, 2013 1:51 pm Post subject:

radiokoala wrote:**Stinktier86 wrote:**

Haven't ordered bricks yet but i think i'd like to have as short decay as possible, to diffentiate them from my long decay springs. Nc

Then one advice: on ebay there are options for medium and long decay times, however if you get one from e.g here, it will be a s opposed to 2.5 & 2.8 sec options 😊

[Back to top](#)

Monobass
 thonk.co.uk

 Joined: 29 May 2009
 Last Visit: 06 Jan 2015

 Posts: 8287
 Location: Brighton, UK

□ Posted: Fri Dec 06, 2013 1:54 pm Post subject:

The kits only include the RCA jacks relevant to the panel you are buying. You can of course buy the rear type loose from Mouser. I may buy not a high priority for me.

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[Back to top](#)

radiokoala
 must. build. jacuzzi

 Joined: 18 Oct 2011
 Last Visit: 22 Jan 2015

 Posts: 1530

□ Posted: Fri Dec 06, 2013 2:16 pm Post subject:

Yahoo! Sick 😊 BTW: How much for a panel?


radiokoala
Birthday Session



 / Analog & modular videos /
 Soundcloud
[Back to top](#)

Monobass
 thonk.co.uk

 Joined: 29 May 2009
 Last Visit: 06 Jan 2015

 Posts: 8287
 Location: Brighton, UK

□ Posted: Fri Dec 06, 2013 2:27 pm Post subject:

When I sell loose panels the PCB type will be 5.5 GBP (approx \$9)

The aluminium panels (rear jacks) will be approx 12 GBP, 20 USD.

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[Back to top](#)

Rick Burnett
Common Wiggler

Joined: 07 Nov 2012
Last Visit: 06 Jan 2015


Posts: 164

[Back to top](#)

Tombola
Super Deluxe Wiggler

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015
Posts: 1322
Location: London, England[Back to top](#)

radiokoala
must. build. jacuzzi

Joined: 18 Oct 2011
Last Visit: 22 Jan 2015


Posts: 1530

[Post subject:](#)
Nantonos wrote:

I wonder if these bricks would be okay socketed, so you could plug different ones in? At £14.49 its inexpensive to try a different one. I hav

Yes, you can socket them with a length of female header - works pretty well

<http://musicthing.co.uk/modular/>

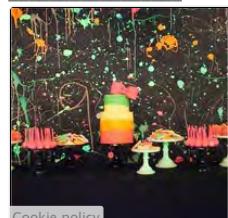
The Music Thing Module Generator®

[Post subject:](#)
Monobass wrote:

When I sell loose panels the PCB type will be 5.5 GBP (approx \$9)

The aluminium panels (rear jacks) will be approx 12 GBP, 20 USD.

Great, I think I'll wait until you have both (and 2 small black davies!) online and then make an order. Any way, I am going to go for a stroll and hopefully will find all I need for this project and be prepared 😊


▶ radiokoala
Birthday Session


/ Analog & modular videos /
[Soundcloud](#)

[Back to top](#)

Monobass
thonk.co.uk

Joined: 29 May 2009
Last Visit: 06 Jan 2015

[Post subject:](#)
Rick Burnett wrote:

I am going to do both the tank and the brick, which had me wondering, do I need to order additional parts before my kit comes in to do both between them?)

I remember reading that you only needed to populate the portion depending on which reverb you were using.

And if this is the case, do you have a part list for what I'd need to order additionally (again other than my switch) to do both?

I Included everything for both the spring and brick, so you need nothing other than the brick or tank itself (and the switch if you want it).

At first I was going to offer options to buy a kit for one or the other or both, but frankly this kit is already such great value it didn't make m

Posts: 8287
Location: Brighton, UK

longer to pack and sort... and experience has taught me that always just leads to more waiting and 'out of stock' periods.

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

Posted: Fri Dec 06, 2013 3:12 pm Post subject:

Tombola wrote:

Nantonos wrote:

I wonder if these bricks would be okay socketed, so you could plug different ones in? At ~14.49 its inexpensive to try a different c

Yes, you can socket them with a length of female header - works pretty well

Cool, thanks for the confirmation. I assumed it would work but some components don't like the extra inductance and stray capacitance that

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

Posted: Fri Dec 06, 2013 3:30 pm Post subject:

Monobass wrote:

I Included everything for both the spring and brick, so you need nothing other than the brick or tank itself (and the switch if you want it).

At first I was going to offer options to buy a kit for one or the other or both, but frankly this kit is already such great value it didn't make much longer to pack and sort... and experience has taught me that always just leads to more waiting and 'out of stock' periods.

That's excellent! Thanks.

I see in the schematic that it's a jumper setting to select between them. I guess I could build a simple attenuator circuit as well and sum before feeding the signal back in.

Anything like this going to happen on the expander?

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Fri Dec 06, 2013 3:34 pm Post subject:

Hmmm, interested to hear tom's thoughts on a digital/analog mix...

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[Back to top](#)

Sip
Common Wiggler

Posted: Fri Dec 06, 2013 4:06 pm Post subject:

Monobass wrote:

loose PCBs now for sale too

<http://www.thonk.co.uk/shop/music-thing-modular-spring-pcb-set/>

2 sets of PCB ordered with their vactrols 🎉🎉🎉

[Back to top](#)

Tombola
Super Deluxe Wiggler

Posted: Sat Dec 07, 2013 5:34 am Post subject:

Monobass wrote:



Hmmm, interested to hear tom's thoughts on a digital/analog mix...

If I get a chance, I'll have a look at this - can't see why it wouldn't work. I'll also take a look at CV-able feedback, see if there's a way to tu

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014



Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

jgb
Wiggling with Experience



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015



Posts: 313
Location: Göteborg, Sweden

[Back to top](#)

Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014



Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

Flux302
Wiggling with Experience



Joined: 11 Jun 2013
Last Visit: 29 Dec 2014



Posts: 301

Hmmm, interested to hear tom's thoughts on a digital/analog mix...

If I get a chance, I'll have a look at this - can't see why it wouldn't work. I'll also take a look at CV-able feedback, see if there's a way to tu

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Posted: Sat Dec 07, 2013 8:18 am Post subject:

Tombola wrote:

Monobass wrote:

Hmmm, interested to hear tom's thoughts on a digital/analog mix...

If I get a chance, I'll have a look at this - can't see why it wouldn't work. I'll also take a look at CV-able feedback, see if there's a xyz fader

Fantastic! These efforts are so much appreciated.

Posted: Sat Dec 07, 2013 11:54 am Post subject:

Damn! I missed the kits. :(Will there be more of them? When? I better start saving money now...

Taking care of 99musik.se since 2002 | Dub techno/techno/acid | Misc/modular | Modular

Posted: Sat Dec 07, 2013 1:05 pm Post subject:

jgb wrote:

Damn! I missed the kits. :(Will there be more of them? When? I better start saving money now...

Kits (panel b option) are still in stock, if that's an alternative for you.

Posted: Mon Dec 09, 2013 6:20 pm Post subject:

Just bought my kit today! 🎉 very much interested in an expander as well if it should come. I think I may also want to set up a switch fc

Thanks so much for the hard work put into this! 🎉

Location: Delaware (near Philly)

[Back to top](#)

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Joined: 07 Nov 2010
Last Visit: 22 Jan 2015



Posted: Tue Dec 10, 2013 3:28 am Post subject:

Stinktier86 wrote:

Kits (panel b option) are still in stock, if that's an alternative for you.

Panel a option is back in stock, now I have bought two of them, plus two digital bricks. Will check out my reverb tanks (I already have 5-6

Christmas is saved, daddy's is adding to the backlog! 😊

Taking care of 99musik.se since 2002 | Dub techno/techno/acid | Misc/modular | Modular

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[profile](#) [pm](#)



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posted: Tue Dec 10, 2013 12:39 pm Post subject:

WOOT!



The mailman braved sub-zero temps to deliver this today. Can't wait to start my build.

Thank you Thonk, and Music Thing! 😊



SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Tue Dec 10, 2013 1:55 pm Post subject:

The Aluminium panel version (rear RCAs) is in stock now too, not shipping until early January though. Loose panels coming Jan 2014 too.

<http://www.thonk.co.uk/shop/springverbkit/>

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

Monobass
thonk.co.uk

Posted: Wed Dec 11, 2013 4:24 am Post subject:

Yeah I did, so did Tombola I think.

I'm wondering if they're out of stock, we've probably created quite a bump in demand.

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

[Back to top](#)

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djthopa
Super Deluxe Wiggler



Joined: 22 Mar 2012
Last Visit: 21 Jan 2015

 Posts: 1026
Location: Somewhere between a nappy and a wire

 Posted: Wed Dec 11, 2013 4:26 am Post subject:

Thanks for the reply.

I just checked my junk email folder and had an email from them saying they are looking into it.

Hopefully its been posted!

Thopa

Website: <http://www.djthopa.net>
Soundcloud: <http://soundcloud.com/djthopa>

[Back to top](#)

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algo
Common Wiggler

Joined: 09 Mar 2013
Last Visit: 22 Jan 2015

 Posts: 189
Location: UK

 Posted: Wed Dec 11, 2013 5:19 am Post subject:

Just to confirm...if I go for Panel B with the RCAs on the front, I can have the brick installed in the rear, then use the RCAs to connect the an:

When the expander comes out I will be able to switch between them or connect a toggle myself?

<http://www.soundcloud.com/a-l-g-o>

[Back to top](#)

[!\[\]\(43f8fb292094c51ca61486d41e2846ab_img.jpg\)](#) [!\[\]\(8238968d6c10ae979f4dababeea9748b_img.jpg\) profile](#) [!\[\]\(2119cfddbe0e92e4a9be13ccaf5e0b8b_img.jpg\) pm](#)

Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

 Posts: 741
Location: Gothenburg, Sweden

 Posted: Wed Dec 11, 2013 6:01 am Post subject:

algo wrote:

Just to confirm...if I go for Panel B with the RCAs on the front, I can have the brick installed in the rear, then use the RCAs to connect the an:

When the expander comes out I will be able to switch between them or connect a toggle myself?

Yes! There's a jumper on the PCB which decides if the brick or the tank is being used. Installing a two-way switch to this jumper for on-pan provided you find suitable panel space to put a switch on to.

The switch is by no means necessary for you to install both solutions, it just makes everyday handling a bit more comfortable.

Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

 Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

[!\[\]\(07d036c0a2468df577414b15604e600e_img.jpg\)](#) [!\[\]\(60039634592bd393691f0b8fa40c86d9_img.jpg\) profile](#) [!\[\]\(357111b56dd1a93b341d51ff45a02d9a_img.jpg\) pm](#)

algo
Common Wiggler

Joined: 09 Mar 2013
Last Visit: 22 Jan 2015

 Posts: 189
Location: UK

 Posted: Wed Dec 11, 2013 6:24 am Post subject:

Great, thanks Stinktier86 😊

<http://www.soundcloud.com/a-l-g-o>

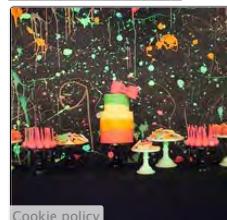
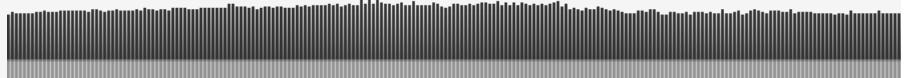
[Back to top](#)[profile](#) | [pm](#)**radiokoala**
must. build. jacuzziJoined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

Posted: Wed Dec 11, 2013 6:31 am Post subject:

Some news on my front: went and bought most of the components today... want to say thanks for designing this project so that it uses the all was well within reach in a store

The only exceptions were 1N4001 diodes (x2) and .2a PTC fuse (x2) - any possible substitutions? Maybe just use LED/diode/thin wire inste.

Thanks,
Igor **radiokoala**
Birthday Session[Cookie policy](#) / Analog & modular videos /
Soundcloud[Back to top](#)[profile](#) | [pm](#)**NorthernLightX**
Common WigglerJoined: 23 Sep 2012
Last Visit: 04 Nov 2014 Posts: 78
Location: Nederland[Back to top](#)

Posted: Wed Dec 11, 2013 7:17 am Post subject:

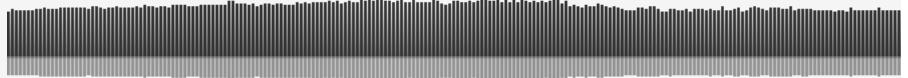
1N4001 are standard rectifier diodes, you can often substitute any 1N400x value.

radiokoala
must. build. jacuzziJoined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

Posted: Wed Dec 11, 2013 7:34 am Post subject:

Thx, maybe they don't have 1N400 anything, but I know for sure they have stock full of 1N4148. Will these do?

 **radiokoala**
Birthday Session[Cookie policy](#) / Analog & modular videos /
Soundcloud[Back to top](#)[profile](#) | [pm](#)**Nantonos**
Super Deluxe WigglerJoined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posted: Wed Dec 11, 2013 8:54 am Post subject:

radiokoala wrote:

Thx, maybe they don't have 1N400 anything, but I know for sure they have stock full of 1N4148. Will these do?

No, those are signal diodes (and have skinny little leads and low current rating) while rectifier diodes have big thick leads and higher currer

1N4148:
Forward Surge Current Ifsm Max: 2A

1N4001:
Forward Surge Current Ifsm Max: 30A

Posts: 1024
Location: CÃ'te d'Azur, France

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

Posted: Wed Dec 11, 2013 11:39 am Post subject:

@radiokoala

That's the reverse polarity protection

You have two choices:

Order from somewhere else

Or: bypass it: leave the diodes out and replace the fuse with wire.

Do not do it the other way around!

Do not connect your module the wrong way around, either.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

L.C.O.
Super Deluxe Wiggler



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015



Posts: 1253
Location: usa

Posted: Wed Dec 11, 2013 7:30 pm Post subject:

So, i too have received the kit.

What can i start assembling now, before complete instructions are available? Anybody has any recommendations?

/// w o r k ///

[Back to top](#)

ruidobello
Learning to Wiggle



Joined: 10 Sep 2012
Last Visit: 05 Jan 2015



Posts: 32
Location: San Francisco

Posted: Wed Dec 11, 2013 10:25 pm Post subject:

Just arriving home and my kit is here!!!

I know what I'm doing tonight!!!

Thank you to all involved!

[Back to top](#)

sduck
WTF?



Posted: Wed Dec 11, 2013 11:21 pm Post subject:

L.C.O. wrote:

So, i too have received the kit.

What can i start assembling now, before complete instructions are available? Anybody has any recommendations?

?? Do you have the docs that are available on the website? That's pretty much all you need. There's not a lot of parts, and it's clearly labeled step by step instructions. Read everything in the docs, take long looks at the pics, and it should be pretty clear how to proceed.

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

Joined: 18 Feb 2009
Last Visit: 22 Jan 2015



Posts: 7177
Location: Vortexexiaon, TN, USA

[Back to top](#)

johnchantler

Common Wiggler



Joined: 17 Dec 2008
Last Visit: 06 Jan 2015



Posts: 167

[Back to top](#)

Posted: Thu Dec 12, 2013 3:05 am Post subject:

got mine. all built and working.

www.inventingzero.net

Joined: 20 Jan 2013
Last Visit: 05 Jan 2015



Posts: 1253
Location: usa

[Back to top](#)

Posted: Thu Dec 12, 2013 8:50 am Post subject:

sduck wrote:

L.C.O. wrote:

So, i too have received the kit.
What can i start assembling now, before complete instructions are available? Anybody has any recommendations?

?? Do you have the docs that are available on the website? That's pretty much all you need. There's not a lot of parts, and it's cle
Hope you don't need step by step instructions. Read everything in the docs, take long looks at the pics, and it should be pretty cl

great!
/ / / w o r k / / /

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337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928
Location: SW MI

[Back to top](#)

Posted: Thu Dec 12, 2013 9:17 am Post subject:

I'm itching to start too ... but, as I'm a total N00B to this world, I was thinking I should wait until the Thonk material is ready. It seems like
rookies. I think I'd benefit from the extra hand holding.

Or, am I being too big of a baby and should I hop in with the pictures and documents that are currently available?

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde
vonbonenstein, & soundwave106

Joined: 03 Mar 2013
Last Visit: 22 Jan 2015



Posts: 1024
Location: CÃ´t d'Azur, France

[profile](#) [pm](#)

Posted: Thu Dec 12, 2013 10:28 am Post subject:

Monobass wrote:

These start shipping Tues-Weds, I don't usually do it but I'll be prioritising shipping to my most far-flung customers first (Australia, Japan, Br
The idea being that everyone who ordered should get it before xmas.

I reckon anyone who has already ordered in Germany should get it by the 13th December latest.... but shipping is already taking plenty long

So, now that folks from the US are reporting their kits arriving, I'm wondering if kits have been shipped to the lower priority (nearer the UK

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps

Joined: 03 Mar 2013
Last Visit: 22 Jan 2015



Posts: 1024
Location: CÃ´t d'Azur, France

[Back to top](#)

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Posted: Thu Dec 12, 2013 11:10 am Post subject:

Nantonos wrote:

Monobass wrote:

These start shipping Tues-Weds, I don't usually do it but I'll be prioritising shipping to my most far-flung customers first (Australia,
The idea being that everyone who ordered should get it before xmas.

I reckon anyone who has already ordered in Germany should get it by the 13th December latest.... but shipping is already taking pl
month ago.



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

So, now that folks from the US are reporting their kits arriving, I'm wondering if kits have been shipped to the lower priority (nea



Posts: 756
Location: Germany

I was wondering about that, too...

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

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youtube

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Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014



Posts: 741
Location: Gothenburg, Sweden

□ Posted: Thu Dec 12, 2013 12:04 pm Post subject:

Thonk,

I got my parcel today, but it did only contain one kit, and i ordered two! 😦

Trying to troubleshoot this one. Do each kit come in a separate parcel?

[Back to top](#)

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L.C.O.
Super Deluxe Wiggler



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015



Posts: 1253
Location: usa

□ Posted: Thu Dec 12, 2013 3:55 pm Post subject:

I think I will go with the all blue ensemble...





... but the red and white looks nice too!

/ / / w o r k / / /

[profile](#) [4:32 pm](#)

[Back to top](#)

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

[profile](#) [4:32 pm](#)

Posted: Thu Dec 12, 2013 4:32 pm Post subject:

Given that it contains a vactrol x-fader distantly related to the one in the music easel, I think you're safe to go with the blue...

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

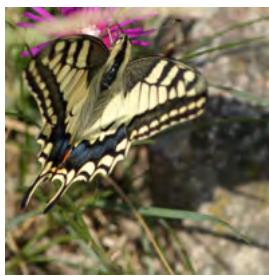
Rigo
Super Deluxe Wiggler

[profile](#) [4:43 pm](#)

Posted: Thu Dec 12, 2013 4:43 pm Post subject:

horstronic wrote:

I was wondering about that, too...



Mine arrived this week on Tuesday, but since I wasn't home I had to go and take it on Wednesday. But I ordered quite fast after the messa

Joined: 27 Dec 2010
Last Visit: 08 Jan 2015



Posts: 1327
Location: Belgium

[Back to top](#)

Chopper28
Common Wiggler

Joined: 13 Jan 2012
Last Visit: 26 Dec 2014



Posts: 94
Location: Scotland

[Back to top](#)

My order here in the UK arrived today 😊 But with all my Christmas stuff still to do, don't know when it will get built 🚧

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015



Posts: 164

[Back to top](#)

grizzle
Learning to Wiggle



Joined: 26 Feb 2011
Last Visit: 22 Jan 2015



Posts: 35

Received my kit, built it, and it sounds amazing! I'm using the long brick and it sounds super cool. Once I get my hands on a spring I'm going to hear both the spring and the brick together!

Thanks for a great reverb!

alex

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

Stinktier86 wrote:

Thonk,

I got my parcel today, but it did only contain one kit, and i ordered two! 😊

Trying to troubleshoot this one. Do each kit come in a separate parcel?

No I just most likely made a mistake there if it was a single order, can you drop me an email or PM me your order details and I'll get the order sorted.

On the order front, well it's not a lie to say I've been overwhelmed, I've been shipping constantly, every day, for two weeks now. I've shipped over 100 orders since the 1st of December. I think I'll be up to date with all current orders shipped by Saturday, Monday at the latest.

[Back to top](#)

[!\[\]\(5a0af43f4780d48f5b6795d988c33aea_img.jpg\) profile](#) [!\[\]\(7d77caa2414d8dca76deac1bae771e18_img.jpg\) pm](#) [!\[\]\(93049ad437fca092cb3b32dcc667d4e6_img.jpg\) email](#)

horstronic
Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

 Posts: 756
Location: Germany

Posted: Thu Dec 12, 2013 7:29 pm Post subject:

Monobass wrote:

Thonk,

I got my parcel today, but it did only contain one kit, and i ordered two! 

Trying to troubleshoot this one. Do each kit come in a separate parcel?

No I just most likely made a mistake there if it was a single order, can you drop me an email or PM me your order details and I'll straight away.

On the order front, well it's not a lie to say I've been overwhelmed, I've been shipping constantly, every day, for two weeks now. order 3299 now and I think I'll be up to date with all current orders shipped by Saturday, monday at the latest.

 Yay, that means my one is on the way 

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

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[!\[\]\(26b807e4288fcf72c2273936e73762d6_img.jpg\) profile](#) [!\[\]\(45691db37003d715a7c440cb9b007a20_img.jpg\) pm](#)

L.C.O.
Super Deluxe Wiggler



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

 Posts: 1253
Location: usa

Posted: Thu Dec 12, 2013 8:30 pm Post subject:

Which leg of the LED is + ?

/ / / w o r k / / /

[Back to top](#)

[!\[\]\(502a9f0dac1b7d132efbd614e51b2f48_img.jpg\) profile](#) [!\[\]\(b60d4c026516eabf1ab3171d25d7ca32_img.jpg\) pm](#)

grizzle
Learning to Wiggle



Joined: 26 Feb 2011
Last Visit: 22 Jan 2015

 Posts: 35

Posted: Thu Dec 12, 2013 8:45 pm Post subject:

The longer leg is the positive one.

[Back to top](#)

[!\[\]\(373a6c9c8cb3bb2d03581877991ab3c3_img.jpg\) profile](#) [!\[\]\(88181b21f1b7fd92f7ae4104d922d228_img.jpg\) pm](#)

L.C.O.
Super Deluxe Wiggler



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

 Posts: 1253
Location: usa

Posted: Thu Dec 12, 2013 10:29 pm Post subject:

grizzle wrote:

The longer leg is the positive one.

Thanks,

/ / / w o r k / / /

[Back to top](#)

[!\[\]\(dc3ea974470db16f8b36a7ae7a819461_img.jpg\) profile](#) [!\[\]\(31bc9ae6baf5a4a4832b7d69f23c9241_img.jpg\) pm](#)

sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015



Posts: 7177
Location: Vortexexaion, TN, USA

Posted: Thu Dec 12, 2013 11:40 pm Post subject:

Ah, you still haven't downloaded the build docs? Get them here http://musicthing.co.uk/modular/?page_id=579 - your led question is answered useful stuff.

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farcical cloud of sound touyube

[Back to top](#)

L.C.O.
Super Deluxe Wiggler



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015



Posts: 1253
Location: usa

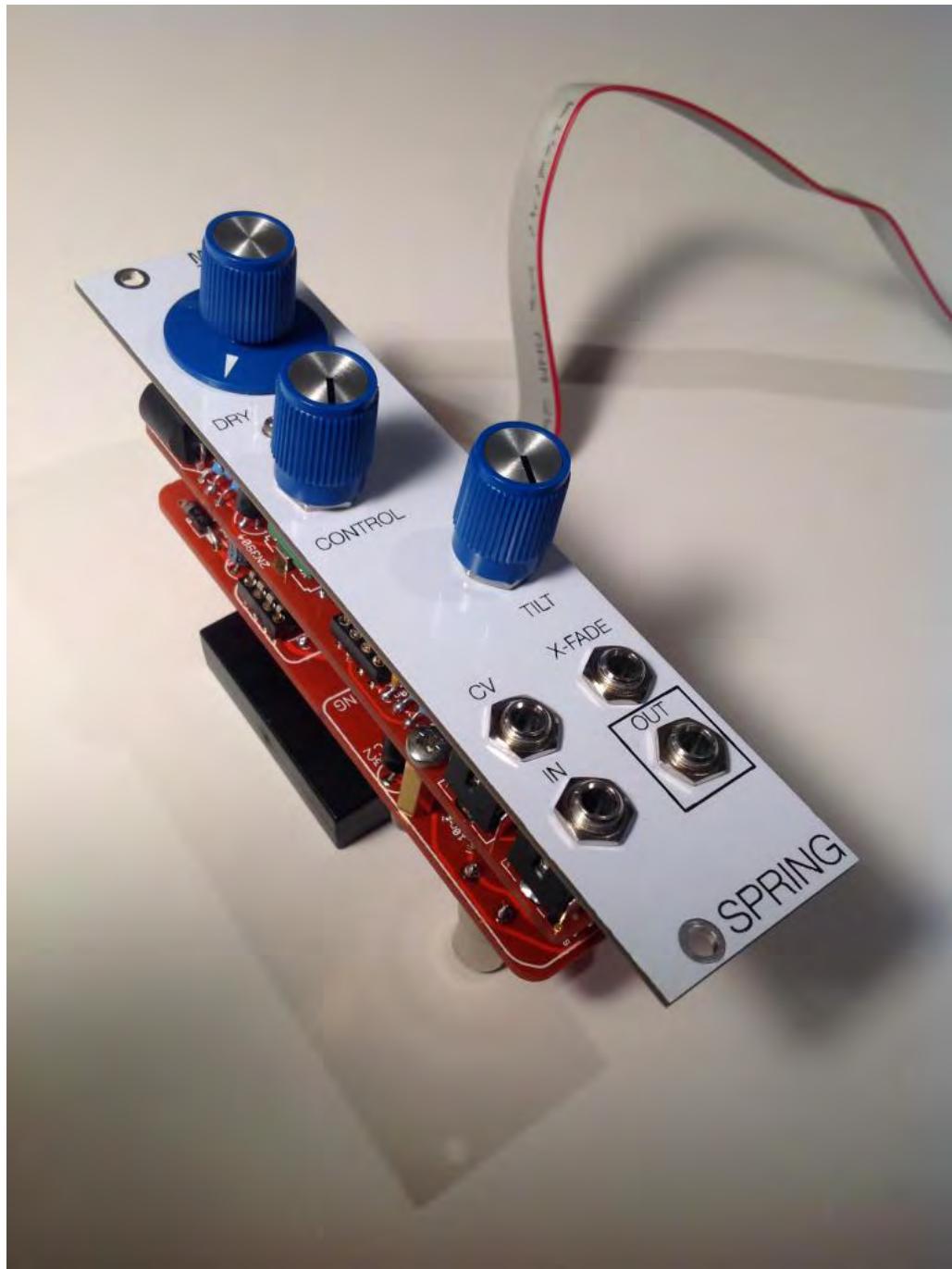
Posted: Fri Dec 13, 2013 2:53 am Post subject:

sduck wrote:

Ah, you still haven't downloaded the build docs? Get them here http://musicthing.co.uk/modular/?page_id=579 - your led question is answered useful stuff.

You know, i did find all these files, but somehow do not see the LED info.
In any case i finished the build. And a lovely piece it is!

For now just with the brick, but i think i will get a tank as well, and perhaps add a front panel switch later. there seems to be a little room for the front RCA plugs would have been...)



/ / / w o r k / / /

[Back to top](#)

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Tombola
Super Deluxe Wiggler



Posted: Fri Dec 13, 2013 3:31 am Post subject:

@LCO Looks great! So exciting to see these in the wild.

Just make sure a switch will fit without touching the case. On the other panel, the entire module is moved up a bit to make space for the fr

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

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radiokoala
must. build. jacuzzi



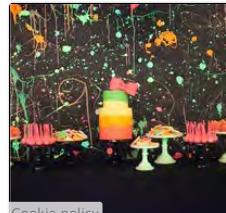
Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

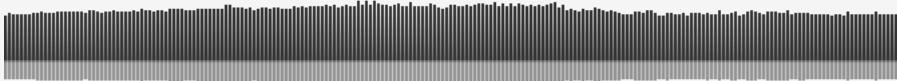
Posted: Fri Dec 13, 2013 4:13 am Post subject:

Will aluminum panel also have a blue logo?

Looks great in the flesh BTW!



radiokoala
Birthday Session



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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Fri Dec 13, 2013 5:19 am Post subject:

The Aluminium panel has black print, like the one pictured above.

Or did you mean blue knobs?

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

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patilon
Veteran Wiggler



Posted: Fri Dec 13, 2013 5:22 am Post subject:

@ L.C.O.

the blue ones look totally great! is it possible to get these knobs anywhere?

Front RCA Kit now out of stock.. if someone from EU happened to have bought more than he needed.. i'd like one!

[www.myspace.com/reejklynur](#) [www.myspace.com/reejkynurmotionpictures](#)

Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

Posts: 590
Location: Germany

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Monobass
thonk.co.uk



Posted: Fri Dec 13, 2013 5:29 am Post subject:

Xpander often does group buys on the blue rogan knobs

The front RCA kit will be back in stock in Jan. If it wasn't Xmas then I'd probably be able to keep it all in stock for a while but everything s/c

[Thonk - Modular Synth DIY + Eurorack Accessories Store](#)

Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

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radiokoala

Posted: Fri Dec 13, 2013 5:44 am Post subject:

must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

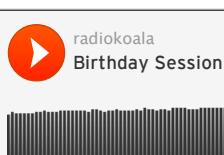
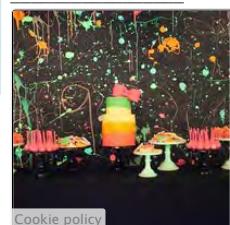
Posts: 1530

Monobass wrote:

The Aluminium panel has black print, like the one pictured above.

Or did you mean blue knobs?

Music Thing Modular is written in blue (as shown on a page 32 photos). That's what I meant by logo.



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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

[Posted: Fri Dec 13, 2013 5:55 am](#) Post subject:

Ah sorry, I see what you mean, not it's silver. It must just be a reflection.

[Thonk - Modular Synth DIY + Eurorack Accessories Store](#)

Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741

Location: Gothenburg, Sweden

[Back to top](#)

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Stinktier86
Veteran Wiggler



[Posted: Fri Dec 13, 2013 6:15 am](#) Post subject:

Thanks for sorting out my issue so quickly! Can't think of how customer service could be better in any way.

Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741

Location: Gothenburg, Sweden

[Back to top](#)

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Tombola
Super Deluxe Wiggler



[Posted: Fri Dec 13, 2013 7:10 am](#) Post subject:

Logo colour is user selectable, depending on the t-shirt worn while patching

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

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horstronic
Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015



Posts: 756
Location: Germany

Tombola wrote:

Logo colour is user selectable, depending on the t-shirt worn while patching



WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

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Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015



Posts: 1024
Location: Côte d'Azur, France

Monobass wrote:

On the order front, well it's not a lie to say I've been overwhelmed, I've been shipping constantly, every day, for two weeks now.

Fair enough. I was more worried that it shipped and had gone astray to be honest.

Monobass wrote:

I've shipped everything up to order 3299 now and I think I'll be up to date with all current orders shipped by Saturday, monday at the latest.

OK. I'm #3209. I got an email on the 11th saying "I've informed roughly 50% of people of their tracking codes so far". I must be in the oth

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

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mechie
Wiggling with Experience



Joined: 20 Jan 2011
Last Visit: 07 Jan 2015



Posts: 259
Location: North Lincs, UK

mechie wrote:

Got mine mid-day yesterday - built it last night (about 2 hours)
Having fun with the long delay brick.

Wondering if I should have bought a pair 😊

During build I did manage to lose a PCB mounting screw and found that one pot nut is different to the others ... so ...

I have a screw loose and my nuts are different sizes 😊

[Back to top](#)

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337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928
Location: SW MI

Quote:

I have a screw loose and my nuts are different sizes

Quote:

built it last night (about 2 hours)

mechie, thank you for the specific details. On a scale of 1-10 how would you rate:

- A) Your previous DIY experience/abilities
- B) The difficulty of assembling this kit

Thanks!

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

D Posted: Fri Dec 13, 2013 9:15 am Post subject:
mechie wrote:

Got mine mid-day yesterday - built it last night (about 2 hours)
Having fun with the long delay brick.

Wondering if I should have bought a pair

During build I did manage to lose a PCB mounting screw and found that one pot nut is different to the others ... so ...

I have a screw loose and my nuts are different sizes

Ah ok, they pots may well have been purchased from different sources, but the nut that was different worked fine on he pot it was originally

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[Back to top](#)

mechie

Wiggling with Experience



Joined: 20 Jan 2011

Last Visit: 07 Jan 2015



Posts: 259

Location: North Lincs, UK

D Posted: Fri Dec 13, 2013 9:44 am Post subject:
337is wrote:

mechie, thank you for the specific details. On a scale of 1-10 how would you rate:

- A) Your previous DIY experience/abilities
- B) The difficulty of assembling this kit

Thanks!

A)

I have done electronics as a hobby for decades now, my first synth was a Practical Electronics Minisonic, built during a school summer holid
I do a lot of building, kit and matrix board, and consider myself as pretty competent (but pride comes before a fall?)
A sample of the insanity I have been responsible for can be seen >HERE<
I would rate this kit as maybe an intermediate, not difficult, just a bit fiddly with things on both sides of both PCBs.

B)

I would say the kit is not too bad IF you stay focussed and methodical, as it says in the build doc, you need to concentrate on BOTH sides c
very helpful IF you read it, but look at the supplied photos in this thread as well as the build doc! Check before soldering!

Monobass wrote:

Ah ok, they pots may well have been purchased from different sources, but the nut that was different worked fine on he pot it was originally

Absolutely, no problem - just a short "WTF" moment whilst I got a grip on reality! Maybe pushing to get it finished a bit too fast????
The screw must be on the floor somewhere, I have a bag of 100 from RS so no dramas there - the original still counts as 'a loose screw' tho

[Back to top](#)

sduck

WTF?



Joined: 18 Feb 2009

Last Visit: 22 Jan 2015



Posts: 7177

Location: Vortexexia, TN, USA

D Posted: Fri Dec 13, 2013 9:56 am Post subject:
L.C.O. wrote:**sduck wrote:**

Ah, you still haven't downloaded the build docs? Get them here http://musicthing.co.uk/modular/?page_id=579 - your led question along with a ton of other useful stuff.

You know, i did find all these files, but somehow do not see the LED info.
In any case i finished the build. And a lovely piece it is!

It looks great!

And sorry for being a smartass. I was having one of those tired/cranky moments. Sometimes I forget how many times I've asked the same

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc
flickr cloud of sound touyube

[Back to top](#)

337is

Ultra Wiggler

D Posted: Fri Dec 13, 2013 11:26 am Post subject:



Super helpful details **mechie**, thank you very much. :-)

And WOW to your build link. Intense and impressive.

EDIT: tez spellerzings

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)

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Posted: Fri Dec 13, 2013 12:10 pm Post subject:

Quote:

Xpander often does group buys on the blue rogan knobs

The front RCA kit will be back in stock in Jan. If it wasn't Xmas then I'd probably be able to keep it all in stock for a while but everything slow

thanks Monobass!! 😊



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

Posts: 590
Location: Germany

[Back to top](#)

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Posted: Fri Dec 13, 2013 4:12 pm Post subject:

Finished up my dual version - 5U MOTM format. Sounds great! I added some normalizations - the left side inputs for the main signal and the other side. And there's the buffer circuit for the direct wet out Tombola suggested a few pages back.



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015

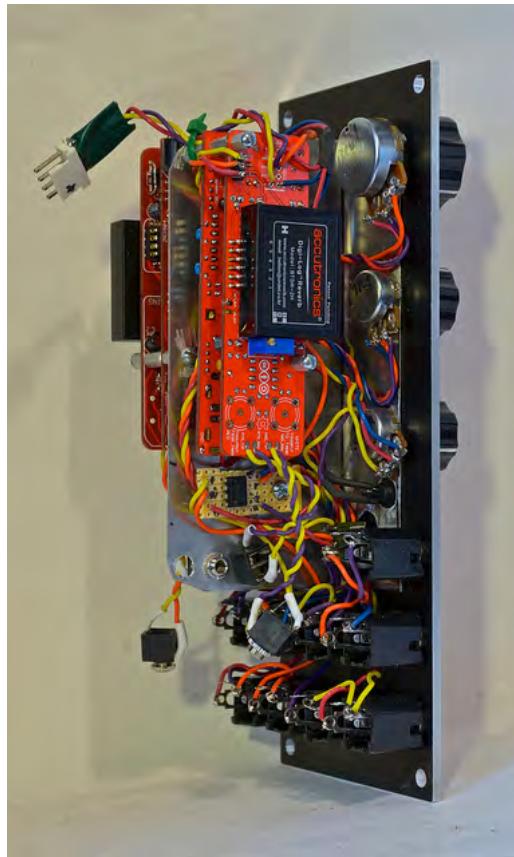
Posts: 7177
Location: Vortexexiaon, TN, USA



Thonk Music Thing Dual Spring Reverb front by sduck409, on Flickr



Thonk Music Thing Dual Spring Reverb profile by sduck409, on Flickr



Thonk Music Thing Dual Spring Reverb back by sduck409, on Flickr

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Fri Dec 13, 2013 4:31 pm Post subject:

Great work Sduck!

Thonk - Modular Synth DIY + Eurorack Accessories Store

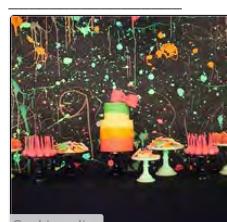
Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

[Back to top](#)

Posted: Fri Dec 13, 2013 4:41 pm Post subject:

Cool as hell.



[radiokoala](#)
[Birthday Session](#)



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[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

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Posted: Fri Dec 13, 2013 5:59 pm Post subject:

That is a thing of beauty **sduck!**

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

337is
Ultra Wiggler

Posted: Fri Dec 13, 2013 6:11 pm Post subject:

Tombola

Quote:

Yes, you can socket them with a length of female header - works pretty well



So, I'm in the middle of my build and thinking about this ... I so wet behind the DIY ears that I need to ask what might be an obvious question like what is used to power eurorack modules? Would I essentially be taking some ribbon cable, stripping six of the strands, and using some cables? Or is there a special female header and cable needed to do this socket option? Not sure I'll get another brick, but figure it's not a bad idea to ask.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde, vonbonenstein, & soundwave106

Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)

Tombola
Super Deluxe Wiggler



Posted: Fri Dec 13, 2013 6:37 pm Post subject:

No, It's much simpler than that. You need a bit of what is called 'single row sockets' on this page: <http://www.bitsbox.co.uk/connectors/he...>

It's the same thing that connects the front board to the back board.

You solder that into the PCB and the brick will go into that.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

[Back to top](#)

L.C.O.
Super Deluxe Wiggler



Posted: Fri Dec 13, 2013 7:39 pm Post subject:

Tombola wrote:

No, It's much simpler than that. You need a bit of what is called 'single row sockets' on this page: <http://www.bitsbox.co.uk/connectors/he...>

It's the same thing that connects the front board to the back board.

You solder that into the PCB and the brick will go into that.

i should have done that!

: -)

Would be fun to try different versions of the brick.

But, the deed is done now. i soldered it in. Mine was the Long decay version.

incidentally, i also have a brand new unopened brick with Short decay version reverb if anyone is interested: i'd be happy to let that one go

Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

Posts: 1253
Location: usa



/// w o r k ///

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337is
Ultra Wiggler



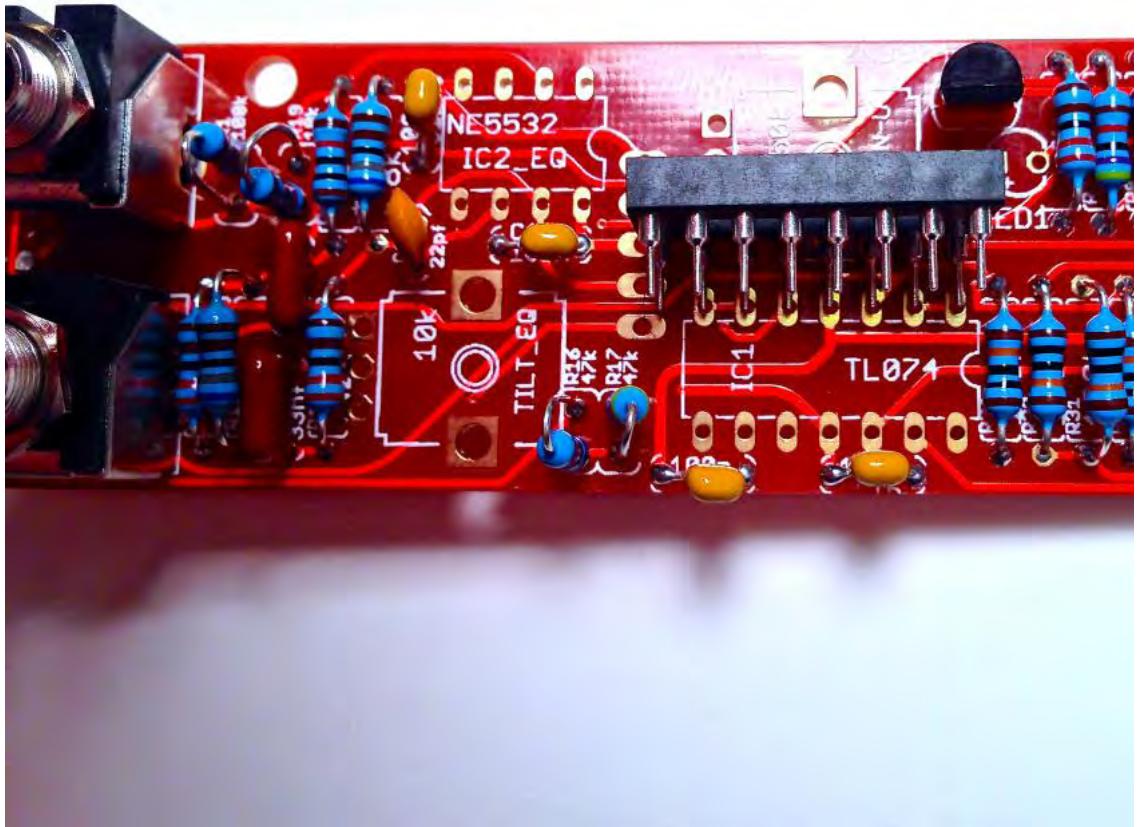
Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

Posted: Fri Dec 13, 2013 8:21 pm Post subject:

Thank you **Tombola!** I might look to secure that part somewhere Stateside.

On a more troubling note, I've run into a complication in my build where I'm pretty sure I have a wrong part. I've taken a picture to try and



I don't even really know for sure what this part is called. But it has 8 pairs of legs on it and the board only has seven pairs of holes for it. Like it has seven pairs of legs. There seems to be enough physical space on the PCB to allow for the 8 hole base. Could I just snip the end pair or something?

Apologies for my n00bieness.

Edit: I like pears.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

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taylor12k
Veteran Wiggler

Posted: Fri Dec 13, 2013 8:33 pm Post subject:

i've run into a problem, too. i seem to be missing one of the 1k resistors. there's clearly two of them on the board (R7 and R8) but i had on oh, but wait.. now i notice that there's a 47k resistor that's labelled on the bag as R7... so i assume this 47k is supposed to go in that 1k R7

thanks for the help!

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

Posts: 666
Location: pound ridge, ny

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337is
Ultra Wiggler

Posted: Fri Dec 13, 2013 8:36 pm Post subject:

Hey **taylor12k**, I can't help with the question you have, but it pleases me to know that we're both working on this project at the same time!

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

 Posts: 928
Location: SW MI

[Back to top](#)

horstronic
Ultra Wiggle



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

 Posts: 756
Location: Germany

[Back to top](#)

taylor12k
Veteran Wiggle



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

 Posts: 666
Location: pound ridge, ny

[Back to top](#)

taylor12k
Veteran Wiggle



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

 Posts: 666
Location: pound ridge, ny

 Posted: Fri Dec 13, 2013 9:13 pm Post subject:

taylor12k wrote:

i've run into a problem, too. i seem to be missing one of the 1k resistors. there's clearly two of them on the board (R7 and R8) but i had only oh, but wait.. now i notice that there's a 47k resistor that's labelled on the bag as R7... so i assume this 47k i supposed to go in that 1k R7 sl thanks for the help!

The value of R7 depends on what vactrol you're using. If you're using a Silinox 32SR3, it's 470Ω , if you're using a VTL5C3, it's 47k. As you seem to use the kit, you probably have a VTL5C3 and the 47k one is just right.

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

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taylor12k
Veteran Wiggle

 Posted: Fri Dec 13, 2013 9:23 pm Post subject:

yeah, it's the kit... so i'll go ahead and put it in.. thanks!

horstronic wrote:

taylor12k wrote:

i've run into a problem, too. i seem to be missing one of the 1k resistors. there's clearly two of them on the board (R7 and R8) but but it was labelled R8 oh, but wait.. now i notice that there's a 47k resistor that's labelled on the bag as R7... so i assume this 47k i supposed to go in the thanks for the help!

The value of R7 depends on what vactrol you're using. If you're using a Silinox 32SR3, it's 470Ω , if you're using a VTL5C3, it's 47k. As you seem to use the kit, you probably have a VTL5C3 and the 47k one is just right.

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

[Back to top](#)

taylor12k
Veteran Wiggle

 Posted: Fri Dec 13, 2013 9:24 pm Post subject:

i hope you get some great sounds out of it!

337is wrote:

Hey **taylor12k**, I can't help with the question you have, but it pleases me to know that we're both working on this project at the same time. beautifully.

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

 Posts: 666
Location: pound ridge, ny

[Back to top](#)

|

horstronic
Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

Posts: 756
Location: Germany

Posted: Fri Dec 13, 2013 9:26 pm Post subject:

taylor12k wrote:

yeah, it's the kit... so i'll go ahead and put it in.. thanks!

horstronic wrote:

taylor12k wrote:

i've run into a problem, too. i seem to be missing one of the 1k resistors. there's clearly two of them on the board (R7 and only one 1k bag and it was labelled R8)

oh, but wait.. now i notice that there's a 47k resistor that's labelled on the bag as R7... so i assume this 47k is supposed to slot?

thanks for the help!

The value of R7 depends on what vactrol you're using. If you're using a Silinox 32SR3, it's 470Ω , if you're using a VTL5C As you seem to use the kit, you probably have a VTL5C3 and the 47k one is just right.

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

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|

taylor12k
Veteran Wiggler



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

Posts: 666
Location: pound ridge, ny

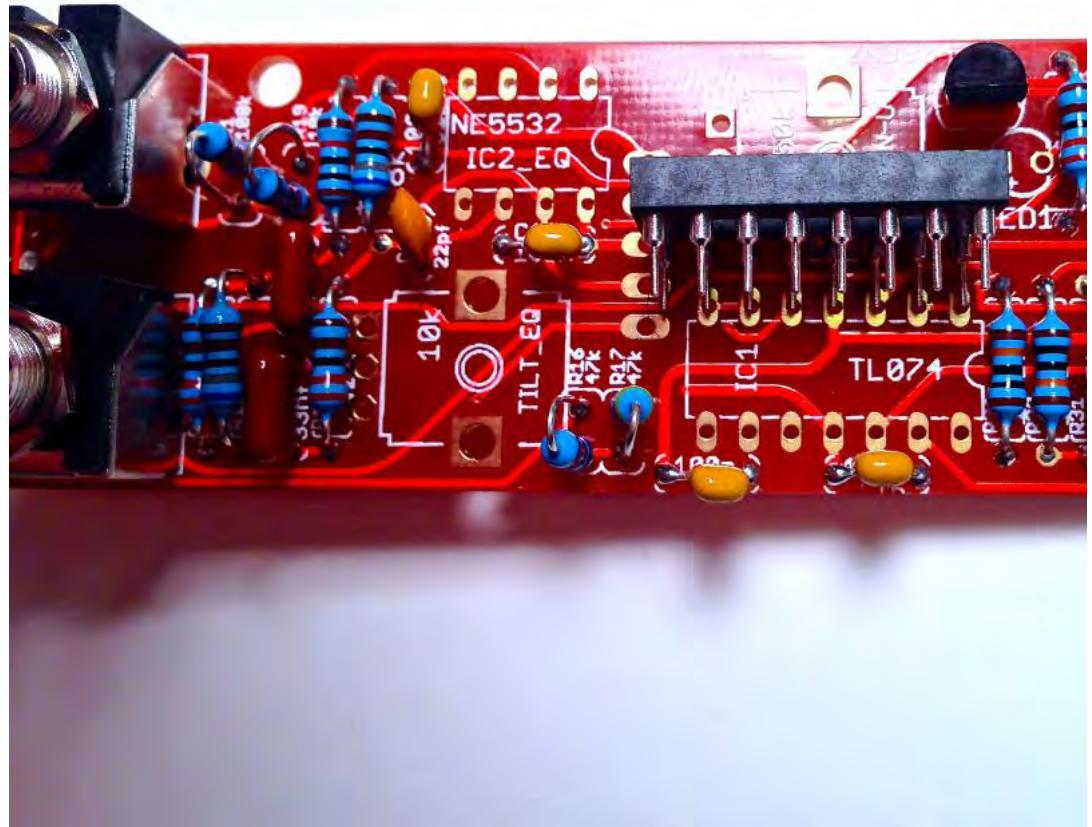
Posted: Fri Dec 13, 2013 10:00 pm Post subject:

i'm at this part now, with the same concern... 8/16 pin component but only 7/14 holes in the board... what did you do??

337is wrote:

Thank you **Tombola!** I might look to secure that part somewhere Stateside.

On a more troubling note, I've run into a complication in my build where I'm pretty sure I have a wrong part. I've taken a picture to try and best



I don't even really know for sure what this part is called. But it has 8 pairs of legs on it and the board only has seven pairs of holes for it. Likewise has seven pairs of legs. There seems to be enough physical space on the PCB to allow for the 8 hole base. Could I just snip the end pair of legs or

Apologies for my n00bieness.

Edit: I like pears.

<http://www.taylordeupree.com>

<http://www.12k.com>

<http://twitter.com/taylor12k>

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flocked
Common Wiggle

Joined: 05 May 2013
Last Visit: 27 Dec 2014

 Posts: 155

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[profile](#) [pm](#)

[Posted: Fri Dec 13, 2013 10:29 pm](#) Post subject:

Could anyone record a comparison between the a199 and this? Would be awesome 😊

mckenic
pew!pew!pew!kthnxbye!

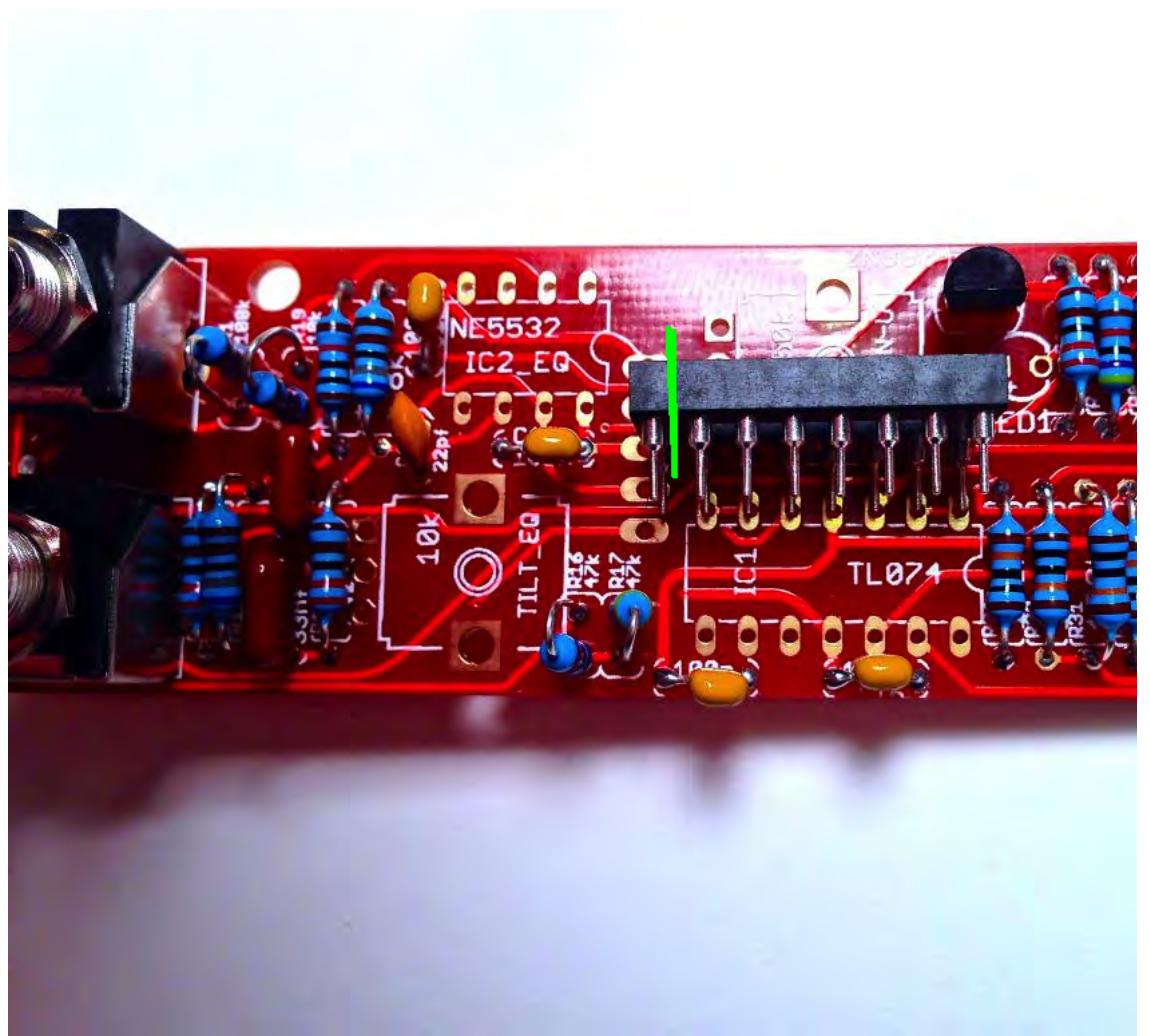


Joined: 06 Aug 2010
Last Visit: 07 Jan 2015

 Posts: 5029
Location: Limerick, Ireland

[Posted: Fri Dec 13, 2013 10:56 pm](#) Post subject:

For the TL074 socket - I would just cut off the plastic & the last two legs (the last one on either side - the end opposite the notch) and sold



All it is doing is holding the 14pin IC, its convenient to use the socket (for changing chips/repair) as its a nightmare to desolder the chip if i prolly just pop out the last metal legs on either side and use the socket as-is if there is space between components.

Album Teaser Video

mCKENIC.cOM | mCKENIC Soundcloud

[Back to top](#)

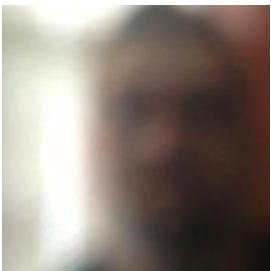
mikecameron
Thread Killer

Posted: Fri Dec 13, 2013 10:57 pm Post subject:

337is wrote:

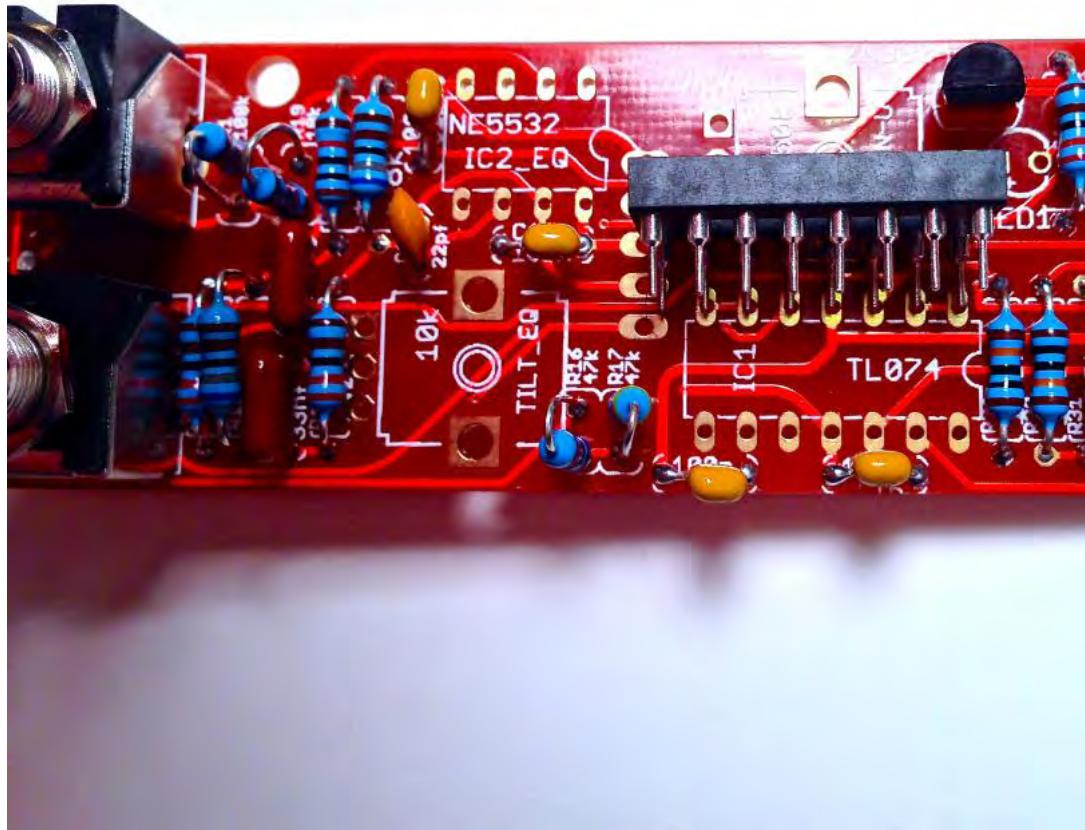
Thank you **Tombola!** I might look to secure that part somewhere Stateside.

On a more troubling note, I've run into a complication in my build where I'm pretty sure I have a wrong part. I've taken a picture to try and best



Joined: 20 Nov 2010
Last Visit: 22 Jan 2015

Posts: 808
Location: Peoria, IL



I don't even really know for sure what this part is called. But it has 8 pairs of legs on it and the board only has seven pairs of holes for it. Likewise has seven pairs of legs. There seems to be enough physical space on the PCB to allow for the 8 hole base. Could I just snip the end pair of legs or

Apologies for my n00bieness.

Edit: I like pears.

That's an IC socket. You can snip off 2 of the legs (on the end without the indentation). If you think this will damage the plastic beyond the pins back through the top to remove them. It looks like there's room on the board for the extra 2 holes to just 'hang out'

edit: Yeah, I mean, what he ^ said.

Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)

[taylor12k wrote:](#)

i'm at this part now, with the same concern... 8/16 pin component but only 7/14 holes in the board... what did you do??

I finished all the other bits I could except this and am waiting to hear more. It's late in the UK so I reckon we might not hear anything until tonight! :-)

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

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337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)

[Posted: Fri Dec 13, 2013 11:03 pm](#) Post subject:
Ohh, **mckenic** and **mikecameron** you are really tempting me to live wildly! Nervous as a rookie but really tempted 😊

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

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taylor12k
Veteran Wiggler



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

Posts: 666
Location: pound ridge, ny

[Back to top](#)

[Posted: Fri Dec 13, 2013 11:07 pm](#) Post subject:

thanks.. i'll just snip the legs off..there's room for the entire socket.!

almost done!

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

Posts: 1253
Location: usa

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L.C.O.
Super Deluxe Wiggler



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

Posts: 1253
Location: usa

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[Posted: Fri Dec 13, 2013 11:30 pm](#) Post subject:

i had the same mis-matched part.

i ended up just cutting off two legs from whichever end.

i installed mine so that it overlapped one of the resistors, but after the fact realized that i could have left the extra, unused plastic hanging a little extra room there. just like in the picture posted earlier. just cut off the two legs on the left side, and leave the plastic intact.

There is also an interesting kink that i encountered which. involves the jack socket installation. i think Steve will be posting something about observed when installing the jack inputs that in my case caused signal dropouts. Took all day today to troubleshoot, but in the end problem

/ / / w o r k / / /

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taylor12k
Veteran Wiggler

[Posted: Fri Dec 13, 2013 11:45 pm](#) Post subject:

damn!..

the module is done... plugged in (yikes that LED is bright) and it passes signal and the filter/tilt works.. but i'm not getting any reverb.

i've build the brick version (but put all of the components in for the spring as well) and have the jumper in the correct spot.

just not getting any reverb... all dry.



will have to inspect in the morning.

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

Joined: 13 Feb 2011
Last Visit: 07 Jan 2015



Posts: 666
Location: pound ridge, ny

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928
Location: SW MI

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928
Location: SW MI

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

[Back to top](#)

Monobass
thonk.co.uk

Posted: Sat Dec 14, 2013 6:07 am Post subject:

Thanks 337is, the pleasure goes both ways!

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Woot! Snippage worked and I'm getting great reverb from the brick! I agree that the LED is super bright.

I'm going to try hooking up the full analogue tank now.

Sorry yours isn't behaving quite yet Taylor, and I hope it's a quick fix in the AM.

Thank you all for the help. It sounds great!

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

337is
Ultra Wiggler

Posted: Sat Dec 14, 2013 1:00 am Post subject:

Last post from a happy me. First synth kit built. YAY! My wife and I worked on it for about eight hours. We were slow, deliberate, and chec

The most complicated kit we'd built before now was an LED PCB Christmas tree. This was quite the step up in difficulty. But the AMAZING F combined with the build documentation, the pictures, and the friendly help in this thread helped to create an AWESOME first time build exp working. Tomorrow morning with fresh eyes and ears we'll go through the calibration process and mount the tank in the case.

Monobass and **Tombola**, your creativity and initiative has help to make me a happier person. Ever since I heard Peter Namlook's work wi with a joystick and a spring reverb. Your kit with my Planar makes my case closer to my dream synth than I ever imagined I might get. Th

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

Monobass
thonk.co.uk

Posted: Sat Dec 14, 2013 6:05 am Post subject:

Ugh, sorry guys. Looks like i shipped around 15 kits with 16 pin sockets instead of 14 pin.

Cutting them down is totally fine, but if you'd prefer not to do that then I'm happy to send a new one for free or send a round for that part.

[Thonk - Modular Synth DIY + Eurorack Accessories Store](#)

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Monobass
thonk.co.uk

Posted: Sat Dec 14, 2013 6:07 am Post subject:

Thanks 337is, the pleasure goes both ways!

[Thonk - Modular Synth DIY + Eurorack Accessories Store](#)



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Sat Dec 14, 2013 6:13 am Post subject:

Oh and if you don't like the LED brightness, try white nail polish.
The part i selected is actually less bright than the one tombola recommends as I don't like them too bright either.

Often you can change a resistor to reduce brightness but with this kit its not recommended as it'll also affect the brightness of the LED in the wet/dry knob.

[Thonk - Modular Synth DIY + Eurorack Accessories Store](#)

taylor12k
Veteran Wiggler



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

Posts: 666
Location: pound ridge, ny

[Back to top](#)

Posted: Sat Dec 14, 2013 7:15 am Post subject:

we can just snip two pins off, yes? no need to break the plastic or remove the metal of the extra pins entirely?

Monobass wrote:

Ugh, sorry guys. Looks like I shipped around 15 kits with 16 pin sockets instead of 14 pin.

Cutting them down is totally fine, but if you'd prefer not to do that then I'm happy to send a new one for free or send a refund for that part.

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

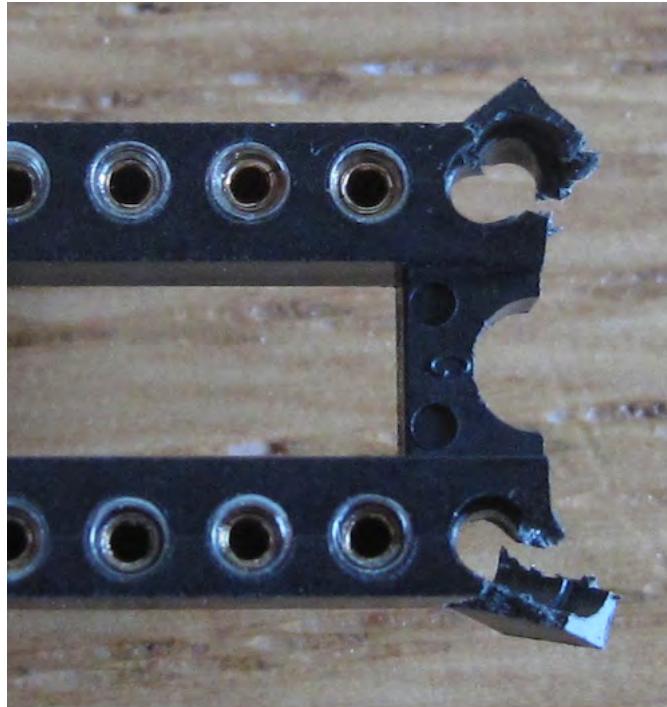
Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Sat Dec 14, 2013 7:34 am Post subject:

My advice to do it safely is nibble away at the end with the notch in like this, the pins pop out easily.



Then you can tidy it a little if you want to, but it's best not to go too near to the other pins.

You can do it the other end too, but there's more chance of breaking the 'bridge' between the two rows that end.

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

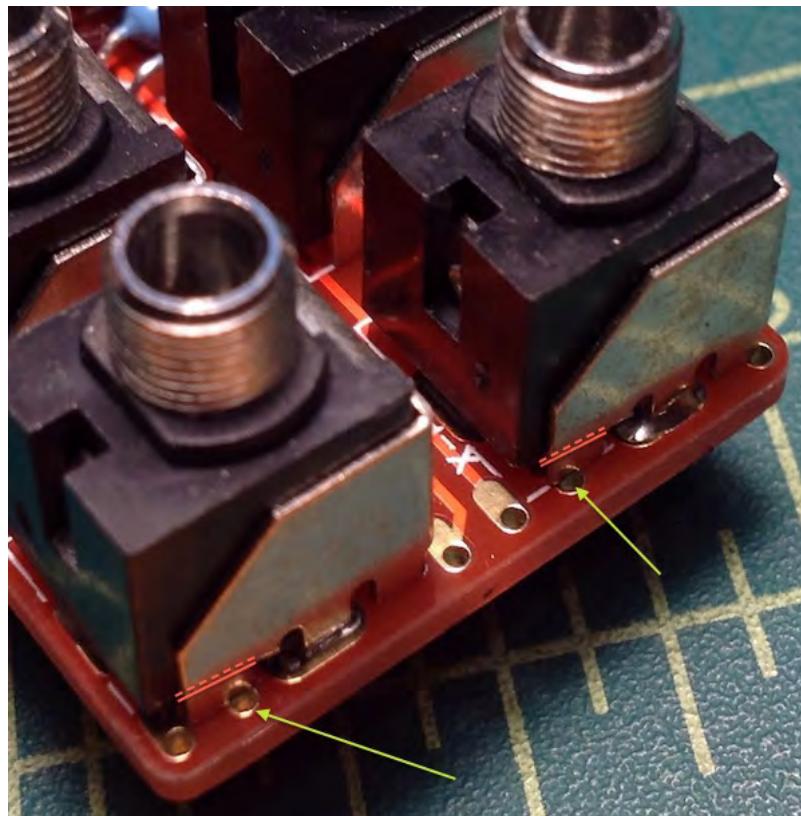
Posts: 8287
Location: Brighton, UK

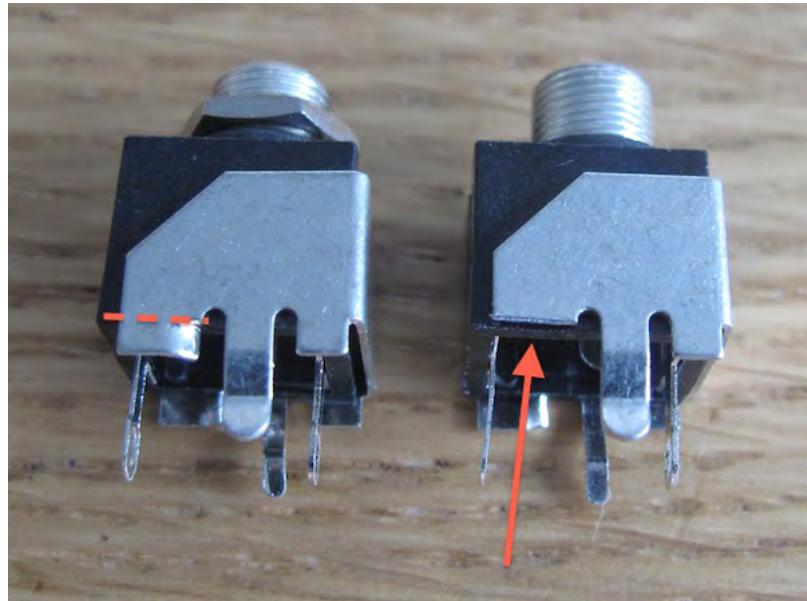
Posted: Sat Dec 14, 2013 7:47 am Post subject:

Another builders tip, one wiggler has a problem with intermittent connections on the input & output jacks. To solve this he snipped a little t away (this only applies to the input and output jacks, not X-fade or CV) as they were shorting the wiring pads at the bottom of the PCB to ground.

I haven't had this problem in any of my builds, nor has Tombola and no one else reported it to date, I think it's because generally the jacks are advisable with jacks and pots to place them in the PCB without soldering, then tighten the panel on with the nuts, solder them all, then rerun the wires.

If you have this problem it isn't a danger to the circuit, it just simply dumps the signal straight to ground.





You can do it easily enough with the jacks in place with a pair of snips, but you can also just bend it up a little out of the way.

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[Back to top](#)

taylor12k
Veteran Wiggler



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015



Posts: 666
Location: pound ridge, ny

Posted: Sat Dec 14, 2013 8:08 am Post subject:

is it ok tho if we just snip the pins? and leave a little metal bit inside the hole?\

i've already soldered mine in.. so to take it out to break off the plastic will be a pain in the ass.

i'm trying to figure out why everything on my module works except the reverb! i can't get any wet reverb signal

Monobass wrote:

My advice to do it safely is nibble away at the end with the notch in like this, the pins pop out easily.
Then you can tidy it a little if you want to, but it's best not to go too near to the other pins.

You can do it the other end too, but there's more chance of breaking the 'bridge' between the two rows that end.

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

Posted: Sat Dec 14, 2013 8:12 am Post subject:

taylor12k wrote:

is it ok tho if we just snip the pins? and leave a little metal bit inside the hole?

yes, you'd want to avoid them touching anything... but they're isolated so it probably wouldn't do anything even if they were.

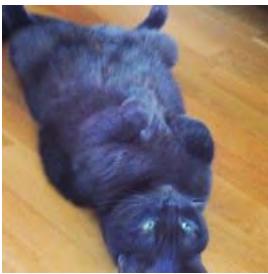
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[Back to top](#)

Jonachi
Veteran Wiggler

Posted: Sat Dec 14, 2013 8:55 am Post subject:

What color are the LEDS in the kits? I usually use purple or pink and would love to continue to do that. I have plenty of them laying around



I'm allergic to nuts!

<http://varmusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

Posts: 596
Location: Sweden

[Back to top](#)

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radiokoala
must. build. jacuzzi

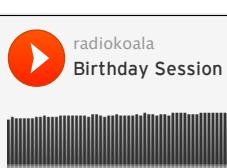
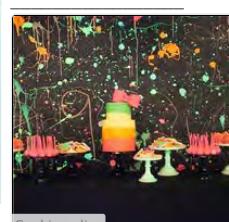


Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

Posted: Sat Dec 14, 2013 8:57 am Post subject:

White.



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radiokoala
Birthday Session

[Back to top](#)

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337is
Ultra Wigglar



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

Posted: Sat Dec 14, 2013 12:25 pm Post subject:

Monobass wrote:

Cutting them down is totally fine, but if you'd prefer not to do that then I'm happy to send a new one for free or send a reund for that part.

This = Quality. Upstanding man and great company. Thank you for the solid work and for standing by your business so directly. I couldn't t

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde, vonbonenstein, & soundwave106

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Tombola
Super Deluxe Wigglar



Posted: Sat Dec 14, 2013 12:30 pm Post subject:

@jonachi - changing the LED shouldn't be a problem. It's in series with the vactrol LED which is why you can't really change the protection also work.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

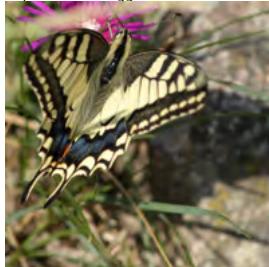
Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322

Location: London, England

[Back to top](#)

Rigo
Super Deluxe Wiggler



Joined: 27 Dec 2010
Last Visit: 08 Jan 2015



Posts: 1327
Location: Belgium

Posted: Sat Dec 14, 2013 1:41 pm Post subject:

Monobass wrote:

Ugh, sorry guys. Looks like I shipped around 15 kits with 16 pin sockets instead of 14 pin.

Cutting them down is totally fine, but if you'd prefer not to do that then I'm happy to send a new one for free or send a refund for that part.

Didn't start to build yet, but did check the socket ... and it's the wrong one as well. So I just changed it with a 14 pin one, no need for send

[Back to top](#)

sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015



Posts: 7177
Location: Vortexexia, TN, USA

Posted: Sat Dec 14, 2013 1:54 pm Post subject:

I also got one of the 16 pin sockets - if you just clip off the leads on the non-notched end the parts that are left won't touch anything, as I do. You might want to solder in the 5 pin connector before the socket though. (normally I'd have a few spare sockets on hand, but this time I don't.)

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farcical cloud of sound bytes.

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

Posted: Sat Dec 14, 2013 2:01 pm Post subject:

This is my socket WWII.

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

Rigo
Super Deluxe Wiggler



Posted: Sat Dec 14, 2013 2:15 pm Post subject:

Monobass wrote:

This is my socket WWII.

Turn it into an opportunity ... Convince people how convenient it can be to have a nice collection of sockets at home 😊

Joined: 27 Dec 2010
Last Visit: 08 Jan 2015



Posts: 1327

Location: Belgium

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928

Location: SW MI

[Back to top](#)

sammy123
Veteran Wiggler

Joined: 24 Mar 2013
Last Visit: 07 Jan 2015

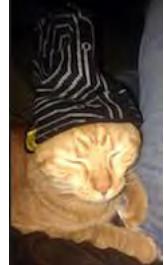


Posts: 630

Location: MKE

[Back to top](#)

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015



Posts: 164

[Back to top](#)

L.C.O.
Super Deluxe Wiggler



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015



Posts: 1253

Location: usa

[Back to top](#)

davidh
Wiggling with Experience



Joined: 06 Dec 2010

Posted: Sat Dec 14, 2013 2:25 pm Post subject:

I know you're all probably fatiguing of my constant chatter on this build, but I've had so much fun and am thrilled with the results. Just want one video and then I'll simmer down. 😊

Hmmm...well the picture uploading feature appears to be busted at the mo. So maybe I'll post a few build pics later. In the meantime here's the feedback patch mentioned in the build tutorial:

I think my woofer was overwhelmed. ;-)

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde, vonbonenstein, & soundwave106

Posted: Sat Dec 14, 2013 2:28 pm Post subject:

Haha. Nice 😊

Posted: Sat Dec 14, 2013 5:09 pm Post subject:

I got the 16 pins as well but trimmed it down, no problem.

Brick works perfect, tank refuses to work. I bought the recommended tank from the guide and RCA from the place for it.

I adjust the R and nothing changes. I double checked and reflowed all solder joints for the spring. I swapped ICs with the brick circuit. I'm just not sure what the check next.

When the white is attached (out to tank) to the reverb, I feel the springs moving a bit. (vibration) when I use a VCA and a tight pulse to hit

Ideas?

(And yes, the jumper is on the correct setting for spring)

Posted: Sat Dec 14, 2013 5:54 pm Post subject:

337is wrote:

I know you're all probably fatiguing of my constant chatter on this build, but I've had so much fun and am thrilled with the results. Just want one video and then I'll simmer down. 😊

Hmmm...well the picture uploading feature appears to be busted at the mo. So maybe I'll post a few build pics later. In the meantime here's the feedback patch mentioned in the build tutorial:

I think my woofer was overwhelmed. ;-)

GÃ¼Ã¼d one, :-)

/ / / w o r k / / /

Posted: Sat Dec 14, 2013 6:16 pm Post subject:

just built my twin spring, with big tanks, so fresh 😊

love those big knobs by the way 😊

Last Visit: 08 Jan 2015



Posts: 318

Location: Europe/FR/Alsace

[Back to top](#)

337is

Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928

Location: SW MI

[Back to top](#)

rico loverde

Super Deluxe Wiggler

<http://dreytnien.bandcamp.com/>
<http://www.youtube.com/user/heodesalciphron>

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Posted: Sat Dec 14, 2013 10:17 pm Post subject:

Dang **davidh**, those are some SWEET sounds you're pulling out of that set up. Well done. Love the part around the 6 minute part of the fire flying by in the cave in your second video! 😊

What's the module to the left of the Spring reverbs? The one with the blue LED diamond? I don't think I've ever seen it before.

After calibrating my spring reverb (a process that was a lot easier than I anticipated), and a day of playing with it, I'm even more smitten I love the Tilt feature. It really colors the sound in beautiful ways; from dark and woody to airy and sparkly.

Thanks for the tip on toning down the LED **Monobass**, but I actually like it bright. I feel like I'm looking into revelation when I peer down a

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

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Posted: Sat Dec 14, 2013 11:08 pm Post subject:

built mine today. took about 1.5 hours. just wanted to give Thonk/Monobass some props for an awesome kit. Everything was packaged and to build. The reverb itself sounds awesome, I did a tan and a brick and added a switch in place of the jumper. Works great.

Quick question for you guys reading this. I got some rca cables when i ordered my tank, they have a white jack, red jack, and another thin I'm assuming is for ground? the tank seems to be fine without the wire connected. am i missing something here? should it be connected?

once again, many thanks to Monobass for the great kit!!!!!! 🎉

works for Darkplace Manufacturing

Joined: 06 Aug 2010
Last Visit: 21 Jan 2015



Posts: 3823

Location: Portland, Oregon

[Back to top](#)

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Posted: Sat Dec 14, 2013 11:32 pm Post subject:

Hey Rico,
how did you end up installing the switch?
Any chance you could post some pictures how you installed it?

/ / / w o r k / / /

Joined: 20 Jan 2013
Last Visit: 05 Jan 2015



Posts: 1253

Location: usa

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Posted: Sat Dec 14, 2013 11:42 pm Post subject:

Could anyone please record a comparison between the a199 and this? Would be awesome 😊

Joined: 05 May 2013
Last Visit: 27 Dec 2014



Posts: 155

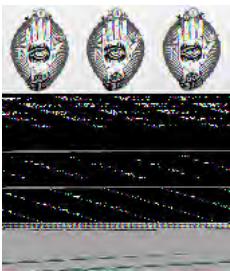
[Back to top](#)

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Posted: Sat Dec 14, 2013 11:49 pm Post subject:

the switch was pretty straight forward. ill post pics tomorrow. theres 3 holes on the pcb
1 for tank
2 middle hole
3 for brick

i wired the middle hole to the center lug of the switch, and holes 1 and 3 to the other two lugs on the switch



works for Darkplace Manufacturing

Joined: 06 Aug 2010
Last Visit: 21 Jan 2015



Posts: 3823
Location: Portland, Oregon

[Back to top](#)

L.C.O.
Super Deluxe Wiggler



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015



Posts: 1253
Location: usa

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rico loverde
Super Deluxe Wiggler

L.C.O. wrote:

rico loverde wrote:

the switch was pretty straight forward. ill post pics tomorrow. theres 3 holes on the pcb
1 for tank
2 middle hole
3 for brick

i wired the middle hole to the center lug of the switch, and holes 1 and 3 to the other two lugs on the switch

Right, i was interested in how you mounted the actual switch on the panel!
:-)

/ / / w o r k / / /

Joined: 06 Aug 2010
Last Visit: 21 Jan 2015



Posts: 3823
Location: Portland, Oregon

L.C.O. wrote:

rico loverde wrote:

the switch was pretty straight forward. ill post pics tomorrow. theres 3 holes on the pcb
1 for tank
2 middle hole
3 for brick

i wired the middle hole to the center lug of the switch, and holes 1 and 3 to the other two lugs on the switch

Right, i was interested in how you mounted the actual switch on the panel!
:-)

haha sorryâ€œi haven't gotten there yet. will do that tomorrow. i have a pretty small switch but even with that the fit might be tight. thinkin the other mods mentioned a few pages back brought out. or maybe just doing an 8hp custom panel at some point. if i find a good spot for

edit: it looks like i may be able to fit just left and up from the big knob. theres just enough room between the rack rail and the pcb

works for Darkplace Manufacturing

[Back to top](#)

davidh
Wiggling with Experience



Joined: 06 Dec 2010
Last Visit: 08 Jan 2015



Posts: 318
Location: Europe/FR/Alsace

337is wrote:

What's the module to the left of the Spring reverbs? The one with the blue LED diamond? I don't think I've ever seen it before.

it is my homemade vco based on Renâ€œ Schmitz cmos vco and a ring modulator, i shared the notes : <http://www.dendrobate-magnetique.com>

337is wrote:

I love the Tilt feature. It really colors the sound in beautiful ways; from dark and woody to airy and sparkly.

totally agree here, the Tilt is beautiull 😊

<http://dreytnien.bandcamp.com/>
<http://www.youtube.com/user/heodesalciphron>

[Back to top](#)

337is
Ultra Wiggler

[Posted: Sun Dec 15, 2013 10:14 am Post subject:](#)

Congrats on finishing your build **rico loverde!** :-)

flocked, if I had the a199 I'd be happy to comply, but currently I only have the Music Thing. Perhaps another wiggler will be able to help o



davidh wrote:

it is my homemade vco based on René Schmitz cmos vco and a ring modulator, i shared the notes : <http://www.dendrobate-magnetique.org/4069-vco-am>

It is BEAUTIFUL to look at and the sounds, as far as I could tell deep in your mix, are lovely too. Thanks for the leads and extra information

Alright, it seems the picture upload feature is working again, so here are the last few from my build experience:

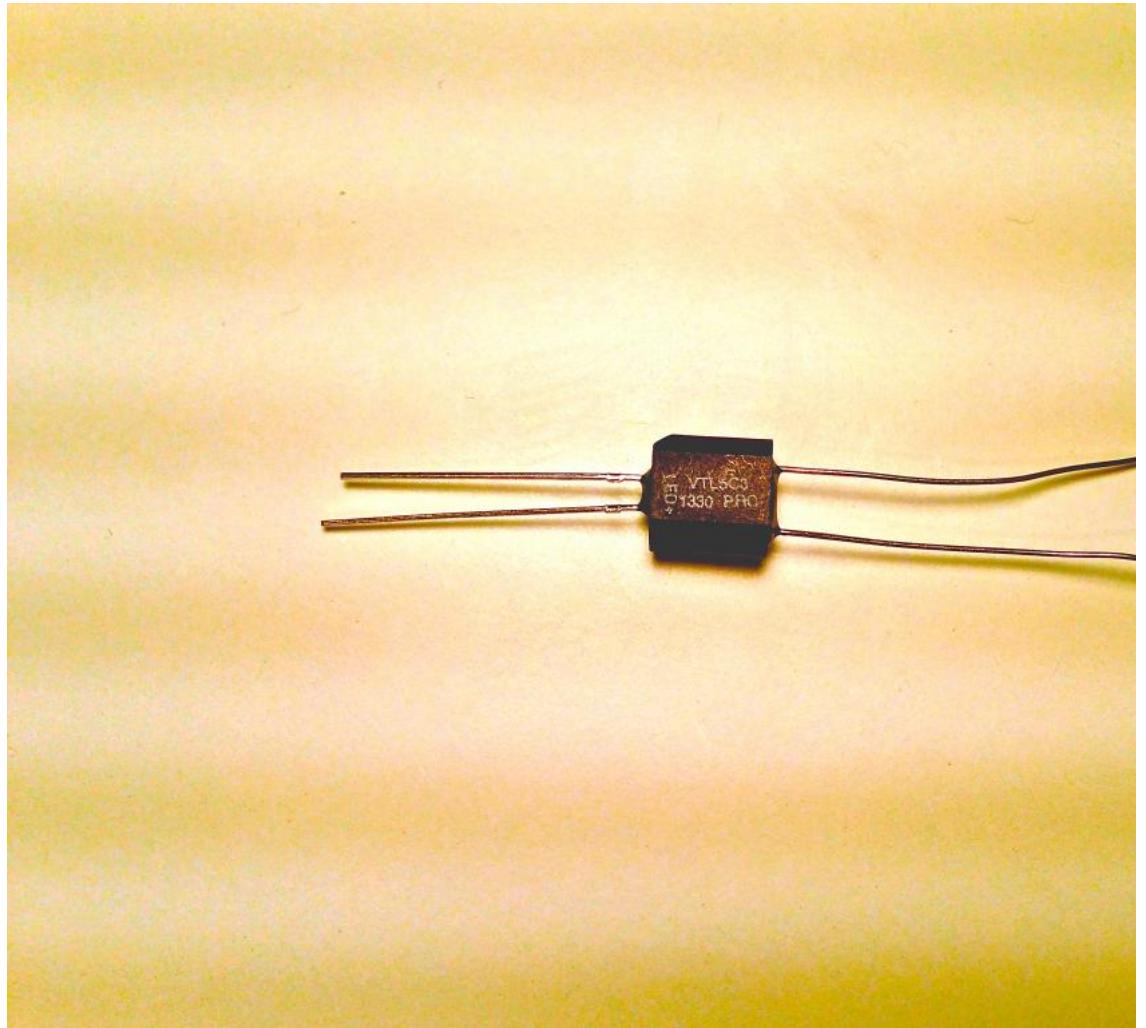
The box open and ready on the table:



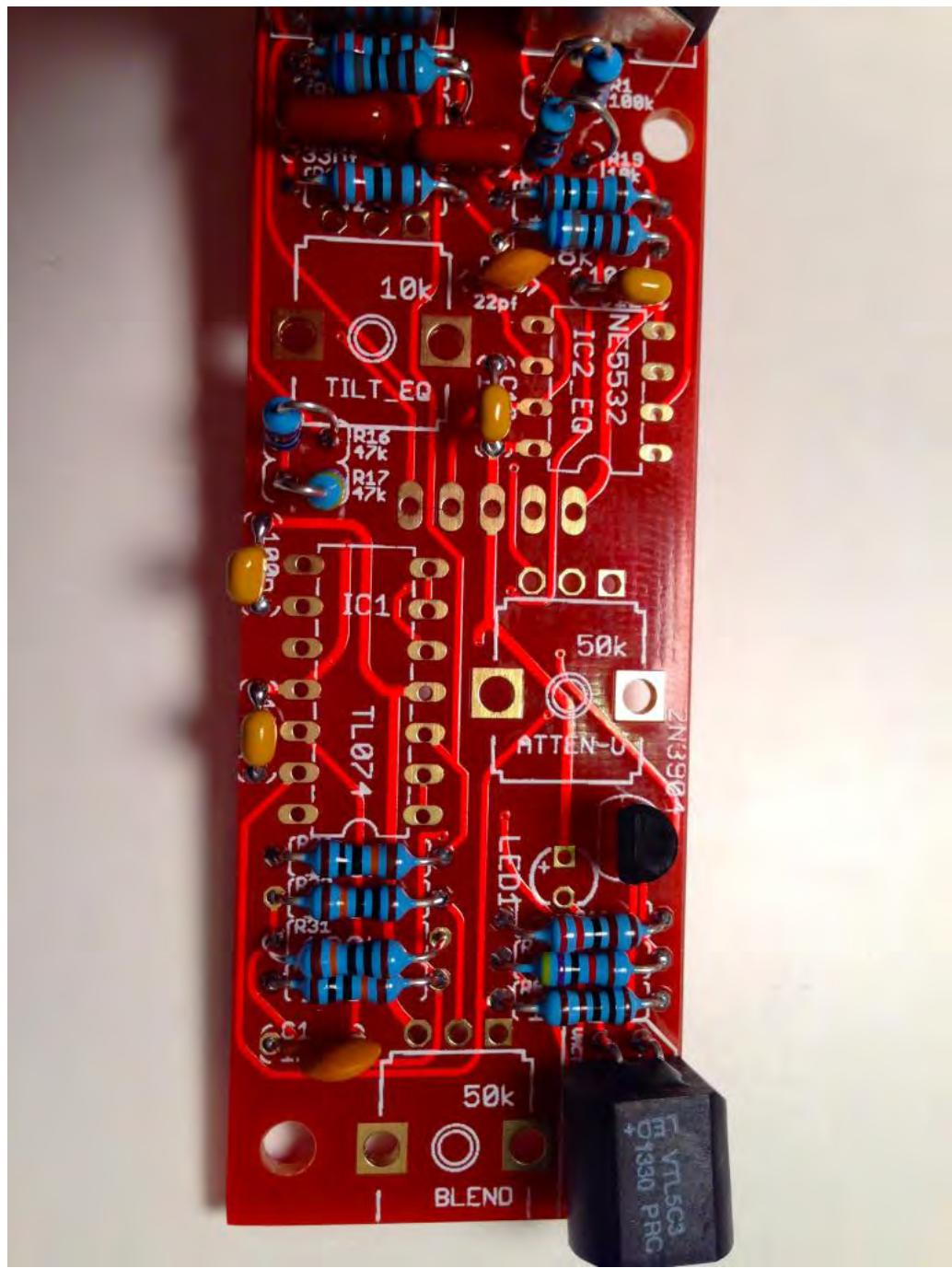
Thonk kit bags spread out and iPad open to the Music Thing pdf documentation and pictures from Thonk for easy reference during the build



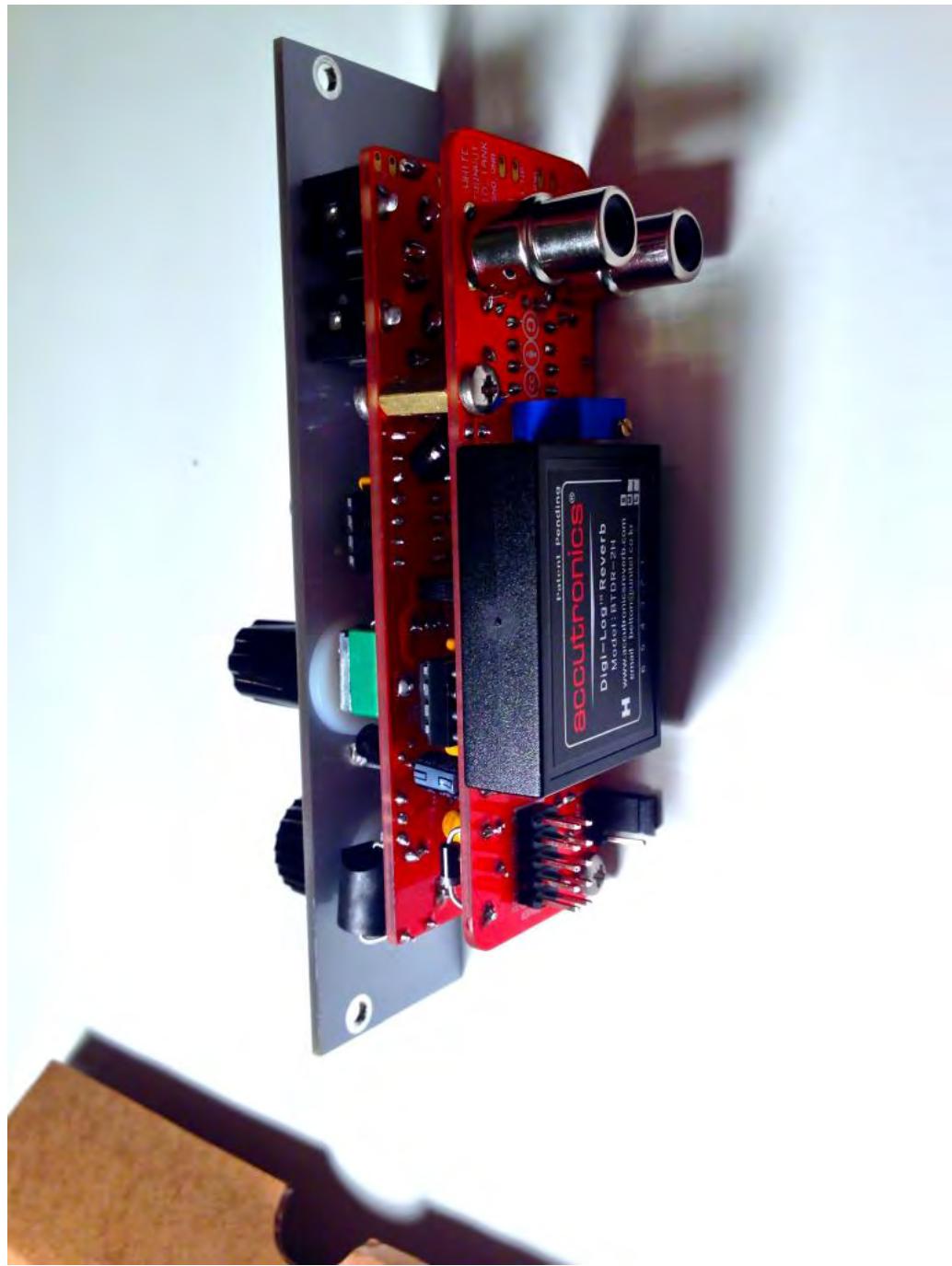
The first time I've seen/held a mythical vactrol:



Perhaps 30% through the build:



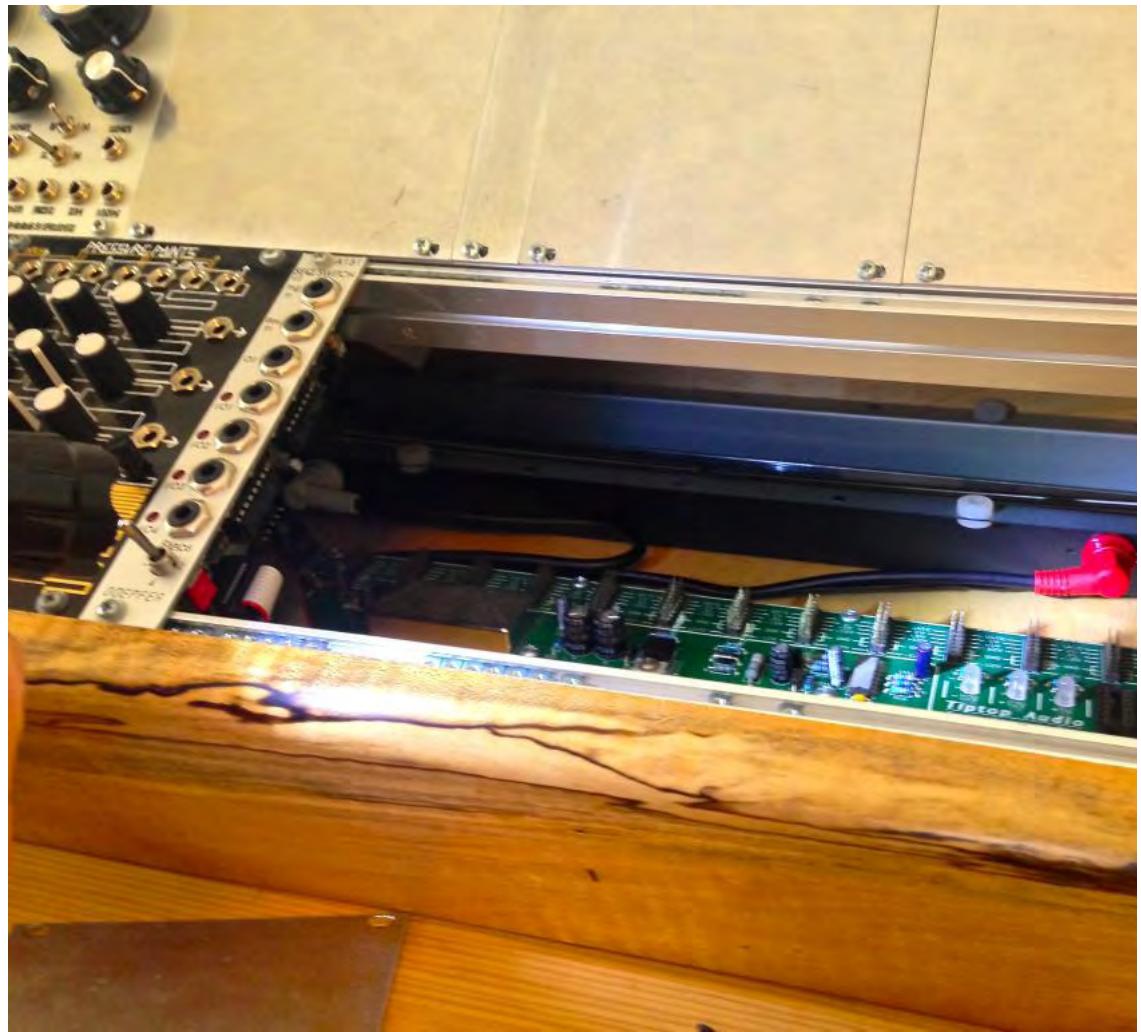
Completed (backside):



Completed (frontside):



17" srping reverb tank in situ in rear right corner of my Goike case:



Awesome. Now I have a pseudo EMS set up. Anyone here familiar with how the joystick and reverb tank on the Synthi or VCS3 interact with envelope, joystick, reverb sort of patch. I have the Planar as my joystick if that matters.

Thanks again, each of you! 😊

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

[profile](#) [pm](#)

Posted: Sun Dec 15, 2013 11:03 am Post subject:

The VCS3 joystick is just patchable to wherever. I can't remember if it's passive or active. What it does depends on how you've patched it.

edit: Now I remember, it's an active stick. Puts out something weird like 0-6.7v. It's easily patchable to a lot of things, so zany combination

Nice pictures! Are you going to leave your tank upside down like that? I know they make them in an upside down configuration, but the way got that. Perhaps you're just having fun with fondling your springs ala ekdahl...



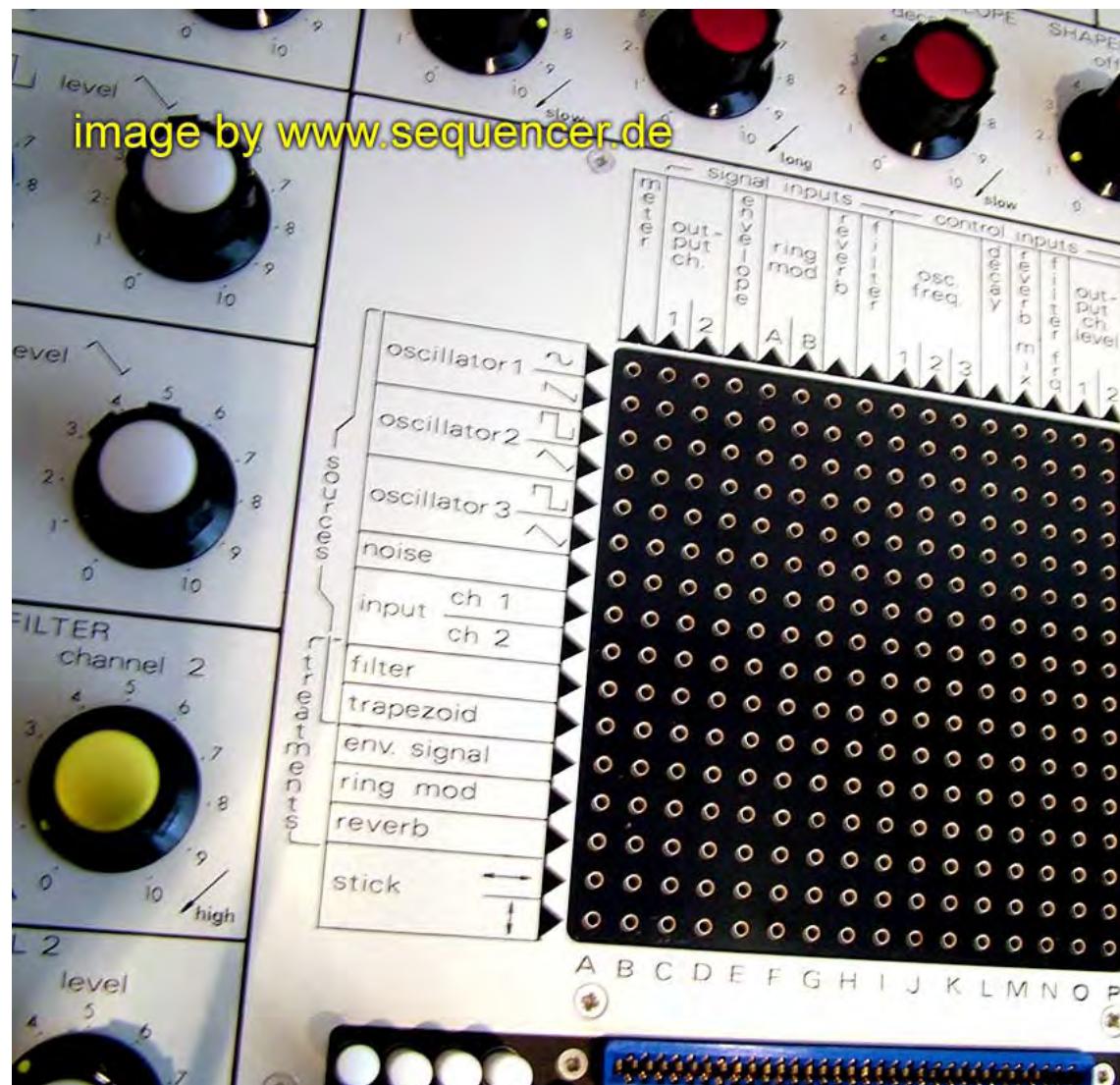
Joined: 18 Feb 2009

Last Visit: 22 Jan 2015



Posts: 7177

Location: Vortexexaion, TN, USA



Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

[Back to top](#)

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337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928
Location: SW MI

Posted: Sun Dec 15, 2013 11:24 am Post subject:

sduck wrote:

Nice pictures! Are you going to leave your tank upside down like that? I know they make them in an upside down configuration, but the way you got that. Perhaps your just having fun with fondling your springs ala ekdahl...

Thanks! And lol, I didn't know it was upside down. I'm totally new to this spring concept. I noticed that there was a small piece of foam inside the fact that the springs seemed to rest on it from time to time. I thought that might introduce odd harmonics (like what happens when a guitar is tuned, "well, the designers know best." They probably thought I'd be smart enough to figure out the proper orientation. lol again.

Thank you too for the pointers on the EMS style of joystickery. Gonna' flip the tank and play a bit.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde

vonbonenstein, & soundwave106

[Back to top](#)

taylor12k
Veteran Wiggler



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

Posts: 666

Location: pound ridge, ny

Posted: Sun Dec 15, 2013 12:20 pm Post subject:

my reverb still isn't working.. and i'm hoping to get some help. here's the rundown:

1. after i built the brick the in/out worked and the tilt filter worked, but no reverb. (yes, i had the jumper in the right place)
2. i installed the rear rca jacks and hooked it up to a tank to test the springs
3. nothing.
4. i started touching various components with my fingers and found when i touched some the reverb (spring) would come on at 100% but i
5. i can continue to do this... touch various components (it seems the half-circle shaped one (sorry, don't know all the names.. not a resistor, black half-circle three-pinned thing) near the LED.. if i pressed on it the reverb would come on. so i resoldered that part.
6. now it's intermitent again... spring reverb if i touch various components, but only 100% wet or 100% dry.
7. i'm not getting anything out of my brick.. unless the brick reverb is so short you can't even hear it.

any ideas???

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

[Back to top](#)

davidh
Wiggling with Experience



Joined: 06 Dec 2010
Last Visit: 08 Jan 2015

Posts: 318

Location: Europe/FR/Alsace

Posted: Sun Dec 15, 2013 12:36 pm Post subject:

taylor12k wrote:

5. i can continue to do this... touch various components (it seems the half-circle shaped one (sorry, don't know all the names.. not a resistor, black half-circle three-pinned thing) near the LED.. if i pressed on it the reverb would come on. so i resoldered that part.

this is a transistor.

probably you have a bad solder somewhere, or a short circuit. also nothing must touch the modular rails.

check all the solder points, eventually redo the solders, just to be sure they are ok, it is quick just pass over all the points with the iron solc

you can check also the sens of the condensers, the bigs are polarized (little yellow or blue not), also the IC must in the good direction.

<http://dreytnien.bandcamp.com>
<http://www.youtube.com/user/heodesalciphron>

[Back to top](#)

L.C.O.
Super Deluxe Wiggler



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

Posts: 1253

Location: usa

Posted: Sun Dec 15, 2013 12:54 pm Post subject:

davidh wrote:

taylor12k wrote:

5. i can continue to do this... touch various components (it seems the half-circle shaped one (sorry, don't know all the names.. not the vactrol, but the black half-circle three-pinned thing) near the LED.. if i pressed on it the reverb would come on. so i resoldered i

this is a transistor.

probably you have a bad solder somewhere, or a short circuit. also nothing must touch the modular rails.

check all the solder points, eventually redo the solders, just to be sure they are ok, it is quick just pass over all the points with th again.

you can check also the sens of the condensers, the bigs are polarized (little yellow or blue not), also the IC must in the good dire

These are all good suggestions.

I would just get a magnifying glass, and look over all your solder joints and see for any dry or balled solder points, then re-flow them.

/ / / w o r k / / /

[Back to top](#)

Rick Burnett
Common Wiggler

Posted: Sun Dec 15, 2013 1:23 pm Post subject:

One question, with the jumper removed and wet/dry full wet, should I hear any of the dry signal? Looks like I see about 10% of the dry sig



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

[Back to top](#)

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Tombola
Super Deluxe Wiggler



Posted: Sun Dec 15, 2013 1:37 pm Post subject:

Re: jumper removed / dry signal.

The one-vactrol cross fade circuit (descended from the one in the Music Easel) works pretty well when both 'inputs' are connected - if one is open, it doesn't really act like a VCA that will close completely

In short - yes, that's normal!

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

[Back to top](#)

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Rick Burnett
Common Wiggler



Posted: Sun Dec 15, 2013 2:04 pm Post subject:

Tombola wrote:

Re: jumper removed / dry signal.

The one-vactrol cross fade circuit (descended from the one in the Music Easel) works pretty well when both 'inputs' are connected - if one input is open, it doesn't really act like a VCA that will close completely

In short - yes, that's normal!

Hmmm, so if I have the jumper on the spring or off completely, the level coming out of the module is the same (ie, I hear the same amount)

I have the schematic so I will start tracing through and trying to figure out where my problem is. It's probably something simple I am not seeing.

Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

[Back to top](#)

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Rick Burnett
Common Wiggler



Posted: Sun Dec 15, 2013 2:47 pm Post subject:

Problem solved! In the spring circuit I had accidentally swapped the 22R and 22K resistors, haha. Why R and K have to look so similar. In a

The tank and brick are SO different, glad I did both.

Now to get down to designing my brick/tank mix circuit. 😊

Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

[Back to top](#)

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davidh
Wiggling with Experience



Joined: 06 Dec 2010
Last Visit: 08 Jan 2015

Posts: 318
Location: Europe/FR/Alsace

[Back to top](#)

Posted: Sun Dec 15, 2013 2:57 pm Post subject:

yeah

can we hear the brick somewhere ?

<http://dreytnien.bandcamp.com/>
<http://www.youtube.com/user/heodesalciphron>

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

Posted: Sun Dec 15, 2013 3:14 pm Post subject:

Wow. Putting in the spring tank in my case orientated correctly (upside down from the way I had it in my picture) really changed the sound sealed tank with the wooden floor of my case acting as the fourth wall of the enclosure. Thanks for pointing that out and helping me **sduck**

davidh wrote:

can we hear the brick somewhere ?

Are you looking for something different than this?

Thonk Synth DIY
Music Thing Modular - Spring Reverb - Digital vs Analog

[Cookie policy](#)

"This demo gives you a quick idea of the two styles of Reverb that it supports, the Digital Acutronics Brick and a real Accutronics spring ta

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

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davidh
Wiggling with Experience



Joined: 06 Dec 2010
Last Visit: 08 Jan 2015

Posts: 318
Location: Europe/FR/Alsace

[Back to top](#)

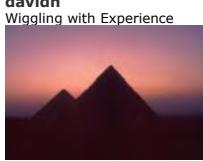
Posted: Sun Dec 15, 2013 3:32 pm Post subject:

thank you 337is

oh it is not bad, may be i will get two briks a day 😊

<http://dreytnien.bandcamp.com/>
<http://www.youtube.com/user/heodesalciphron>

337is
Ultra Wiggler



Joined: 06 Dec 2010
Last Visit: 08 Jan 2015

Posts: 318
Location: Europe/FR/Alsace

Posted: Sun Dec 15, 2013 4:34 pm Post subject:

those crazy modules 😊

<http://dreytnien.bandcamp.com/>
<http://www.youtube.com/user/heodesalciphron>

[Back to top](#)

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337is
Ultra Wiggler

Posted: Sun Dec 15, 2013 4:48 pm Post subject:



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

Damn, hit after hit **davidh!** "I had to, like, open the bruise up, and let some of the bruise blood come out to show them"

Love it! Thanks for sharing.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

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337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

Posted: Sun Dec 15, 2013 5:36 pm Post subject:

Man, that is a great track. I listened to it through twice. Do you have it up on soundcloud by any chance **davidh?** I'd love to download it. :-)

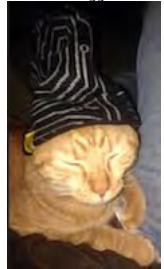
SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

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Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

Posted: Sun Dec 15, 2013 5:56 pm Post subject:

Yeah, I have to agree, that was REALLY REALLY good. Thanks for sharing that davidh.

[Back to top](#)

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taylor12k
Veteran Wiggler



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

Posts: 666
Location: pound ridge, ny

Posted: Sun Dec 15, 2013 6:36 pm Post subject:

transistor.. yes! thanks

but, yeah, i've been through the whole thing checking solder points (i wear like a jewelers magnifying headset thing when i work).. but i'll and report back...

davidh wrote:

taylor12k wrote:

5. i can continue to do this... touch various components (it seems the half-circle shaped one (sorry, don't know all the names.. not the vactrol, but the black half-circle three-pinned thing) near the LED.. if i pressed on it the reverb would come on. so i resoldered i

this is a transistor.

probably you have a bad solder somewhere, or a short circuit. also nothing must touch the modular rails.

check all the solder points, eventually redo the solders, just to be sure they are ok, it is quick just pass over all the points with th again.

you can check also the sens of the condensers, the bigs are polarized (little yellow or blue not), also the IC must in the good direc

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

[Back to top](#)

taylor12k
Veteran Wiggler



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

Posts: 666
Location: pound ridge, ny

□ Posted: Sun Dec 15, 2013 6:59 pm Post subject:

<<edit>>

figured out PART of the problem.. i have the 10k potentiometer on the BLEND control, not one of the 50k ones.. so that would likely explain having a hell of a time de-soldering those.. but when i do i'll test...

- - - - -

<< edit edit>>>

unfortunately, putting the knobs in the right spots didn't fix anything... still 100% wet only tank and no brick.

- - - - -

frustrating.. still can't get it to work...

i went over it a third time.. even put solder on both sides of the boards in many cases..

i still get no brick at all, and only wet tank.. no wet/dry mix

could any part be blown?

could i have put some resistor in the wrong place?

is there somewhere i should quadruple check given the above symptoms?

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

[Back to top](#)

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

□ Posted: Sun Dec 15, 2013 8:57 pm Post subject:

Desolder braid is what I used to remove parts on this, worked like a champ.

[Back to top](#)

sduck
WTF?



□ Posted: Sun Dec 15, 2013 11:15 pm Post subject:

taylor12k wrote:

could any part be blown?

could i have put some resistor in the wrong place?

is there somewhere i should quadruple check given the above symptoms?

Yes. But we don't really have enough info to help - can you post pictures? Good, detailed ones? In focus and all that? There's no way of tell if you've just got lousy solders from what you've typed so far.

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc
flickr cloud of sound touyube

Joined: 18 Feb 2009
Last Visit: 22 Jan 2015

Posts: 7177
Location: Vortexexaion, TN, USA

[Back to top](#)

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extinguish

Common Wiggler



Joined: 25 Mar 2013
Last Visit: 06 Jan 2015

Posts: 74
Location: Melbourne, Australia

[Back to top](#)

Posted: Sun Dec 15, 2013 11:23 pm Post subject:

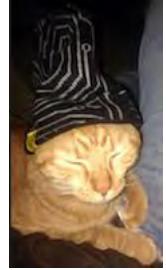
I look forward to building one of these, I've just got a couple of questions to help me figure out whether I want the RCA connections on the

There's nothing to stop me putting anything I like in the signal path is there? Provided the right connections of course. Say adding a delay I a dry/wet controlling both.

Secondly, will there be an Aluminum Front RCA panel?

Cheers

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

Posted: Sun Dec 15, 2013 11:33 pm Post subject:

Alright, got a chance to play around with it some more. Using a shapeshifter and PDO with a bunch of modulations. Feed into Phonogene in at 50% wet, then I shift to 0%, then 100%, 0% then 100%.

I added only a drum track (Battery 4 + Microtonic) so all other sounds are coming from the eurorack.

Something interesting I noticed. I needed to drop the Dry down 8dB to get the same relative loudness as the full wet. This is the TANK, but a way I can crank up the output more? (And the TANK is tuned just below distorting. Given both do it, I need to adjust this afterwards).

Rick Burnett
REVERBERER

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

Posted: Mon Dec 16, 2013 6:02 am Post subject:

Rick Burnett, love the track. Great example of the wet versus dry ... really pronounced.

Rick Burnett wrote:

Something interesting I noticed. I needed to drop the Dry down 8dB to get the same relative loudness as the full wet. This is the TANK, but is there a way I can crank up the output more? (And the TANK is tuned just below distorting. Given both do it, I need to adjust this afterwards)

How did you drop the dry by 8dB? I too have noticed that it is seemingly much louder than the wet when calibrated just shy of distortion. My dry/wet fully panned each way and tried to decide if the wet side was actually as loud, just not a present (more ethereal in nature) in the mix. I suppose if I were clever I could figure out a way to more scientifically measure using my O'Tool.

One thing I have to say, the noise level of this reverb is WAY BETTER than I ever imagined it would be. I was really nervous about picking it up. I've heard next to nothing. At EXTREMES there may be some in there but it adds to the character. Damn, I love this module. I've never got this visceral like this.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde, vonbonenstein, & soundwave106

[Back to top](#)

horstronic
Ultra Wiggler



Posted: Mon Dec 16, 2013 7:36 am Post subject:

Joined: 08 Aug 2013
Last Visit: 07 Jan 2015



Posts: 756
Location: Germany



I finally got my kit today (and a turing machine kit as well)



WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

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youtube

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337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

 Posts: 928
Location: SW MI

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horstronic
Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

 Posts: 756
Location: Germany

[Back to top](#)

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EMwhite
Super Deluxe Wiggler



Joined: 08 Feb 2012
Last Visit: 07 Jan 2015

 Posts: 1602
Location: NY Metro area

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337is wrote:

Yay for **horstronic**! Please tell me, when you're finished with both kits, if you think they're about the same difficulty level. I've been tempted have been a bit intimidated. Good luck with your builds!

Turing machine is very documented, however has a larger number of components and especially ICs. The good news is that they are all so

No lead forming as required for a neat install of the Vactrol on the Spring, but there are a few tricky bits to contend with, nothing terrible.

- LED array should be mounted 'high' in order to be closer to your panel and you don't want to get it too hot!
- two of the ICs (when I built mine) were a bit too close from a tolerance perspective which only means that you need to carefully align the been addressed

I built the Pulses add-on also which was actually very simple and straight forward, may have taken 20 minutes additional including the pan with the Voltages but I'm sure it's well put together/document and the only 'new' skill required has to do with the pot sliders.

All in all, these are among the best DIY projects that I've done; most satisfying, short built time, well documented and packaged by Thonk. then go for it!

Beware of programmers with screwdrivers...

[Back to top](#)

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337is

Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

 Posts: 928
Location: SW MI

Posted: Mon Dec 16, 2013 8:34 am Post subject:

Thanks for the encouragement, perspective, and information **EMwhite**. I appreciate it. I see a build of these in my near future. :-)

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

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woodster

Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

 Posts: 801
Location: UK

Posted: Mon Dec 16, 2013 8:35 am Post subject:

337is,

Looking at your Spring pics, it's seems like a tidy build you did there.
I reckon you'll be fine with the Turing, just off what you've learned from doing the Spring.

[Back to top](#)

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337is

Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

 Posts: 928
Location: SW MI

Posted: Mon Dec 16, 2013 8:38 am Post subject:

woodster, your comment will thrill the missus. She was so proud of our work that she could hardly sleep the night after our build was completed. I think she was even more palpable. I asked her if she was up for more builds and she said "BRING 'EM!" God I love her.

Your words mean a lot to me. Thanks so much! 

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

[profile](#) [pm](#)

L.C.O.

Super Deluxe Wiggler

Posted: Mon Dec 16, 2013 11:47 am Post subject:

for some reason i think Turing Machine was actually an easier build.



maybe it's the detailed step-by-step documentation that takes a bit of guessing out of the process.
If you built the SPRINg you will certainly be totally fine building Turing Machine.
the IC socket being too tight is a good point: i noticed that in my build as well. So knowing that ahead will make it possible to make some a problem.
Good luck, @337is !

/ / / w o r k / / /

Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

Posts: 1253
Location: usa

[Back to top](#)

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

□ Posted: Mon Dec 16, 2013 11:51 am Post subject:

337is wrote:

Rick Burnett, love the track. Great example of the wet versus dry ... really pronounced.

How did you drop the dry by 8dB? I too have noticed that it is seemingly much louder than the wet when calibrated just shy of distortion. My dry/wet fully panned each way and tried to decide if the wet side was actually as loud, just not a present (more ethereal in nature) in the mix ... I suppose if I were clever I could figure out a way to more scientifically measure using my O'Tool.

One thing I have to say, the noise level of this reverb is WAY BETTER than I ever imagined it would be. I was really nervous about picking up but I've heard next to nothing. At EXTREMES there may be some in there but it adds to the character. Damn, I love this module. I've never g inspired me viscerally like this.

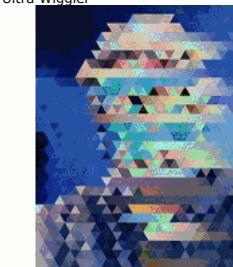
Thanks! Yeah, I have the agree, the noise floor is REALLY low, amazing job on that.

I brought the material into a DAW and just cut at the transition and dropped 8dB on the dry part. I gauged the change based on what the l

Looking at the schematic seeing what I could do.

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

□ Posted: Mon Dec 16, 2013 2:24 pm Post subject:

Thanks for the additional insight on the Turing build **L.C.O.**, I appreciate it. :-)

Thanks too **Rick Burnett** on the DAW details ... I thought you might have worked out a super nifty eurorack trick.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

taylor12k
Veteran Wiggler



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015

Posts: 666
Location: pound ridge, ny

□ Posted: Mon Dec 16, 2013 2:24 pm Post subject:

here are some pics. excuse the lame soldering which has been made worse by touch-ups and pulling components out and back in. i can hap has worked! except this one...

sduck wrote:

taylor12k wrote:

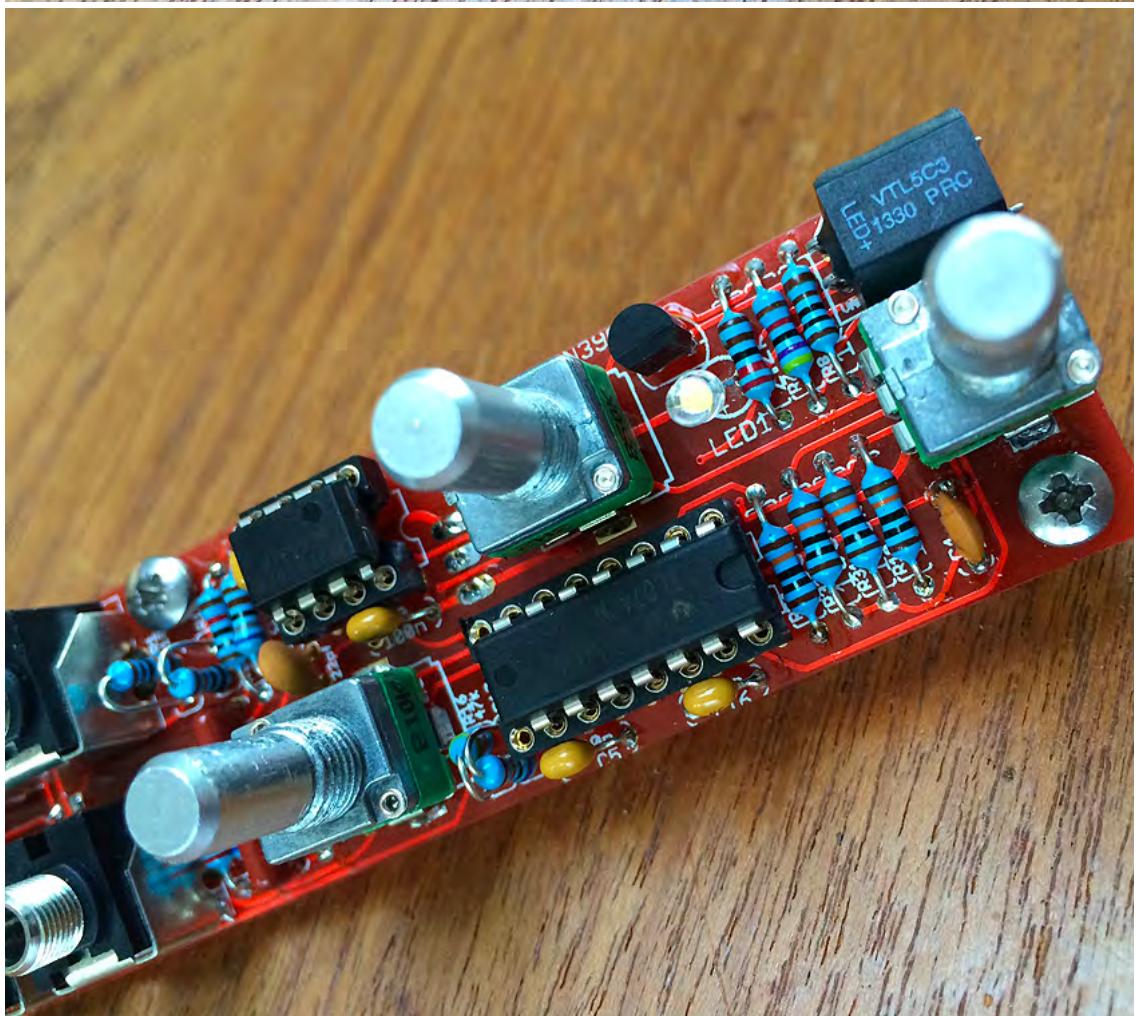
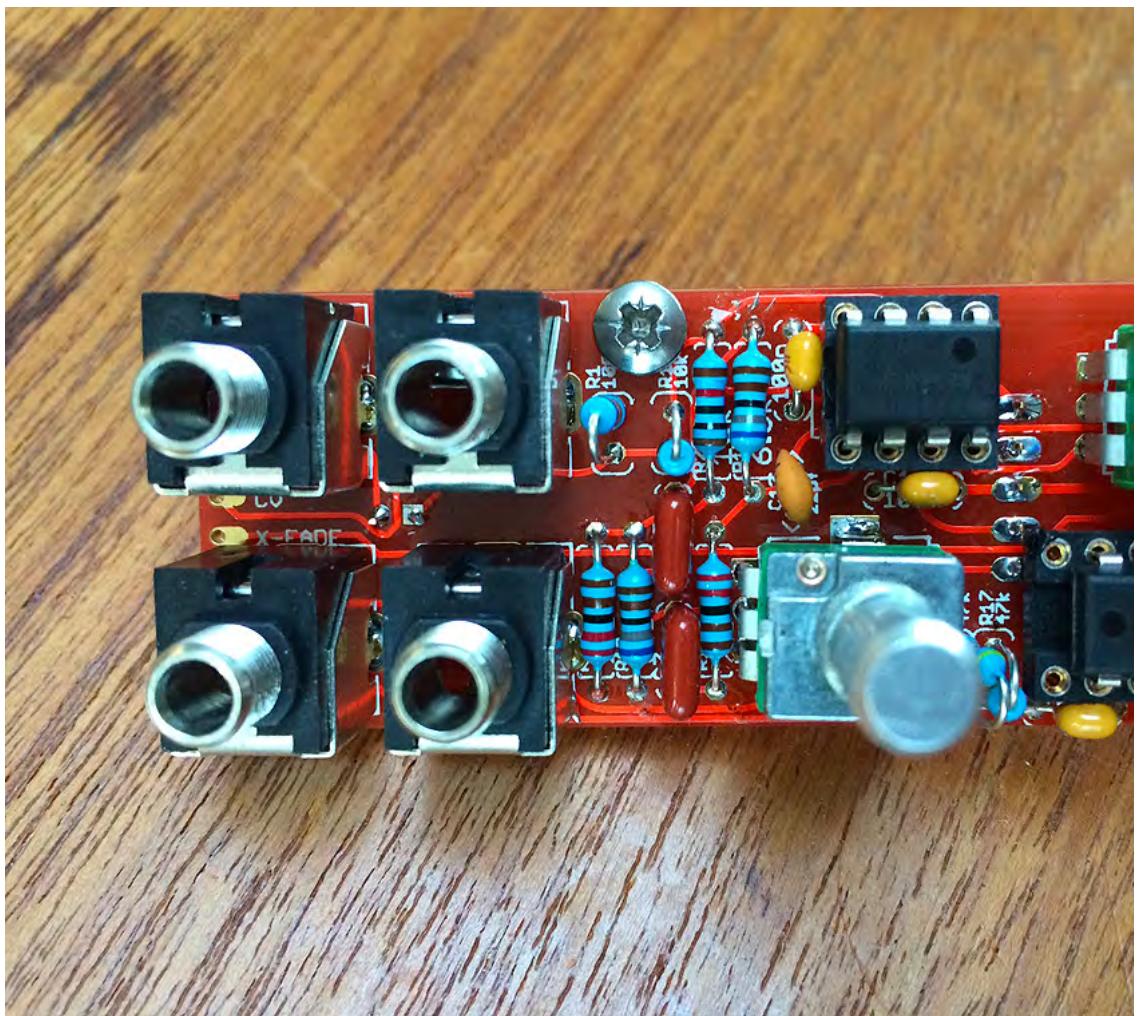
could any part be blown?

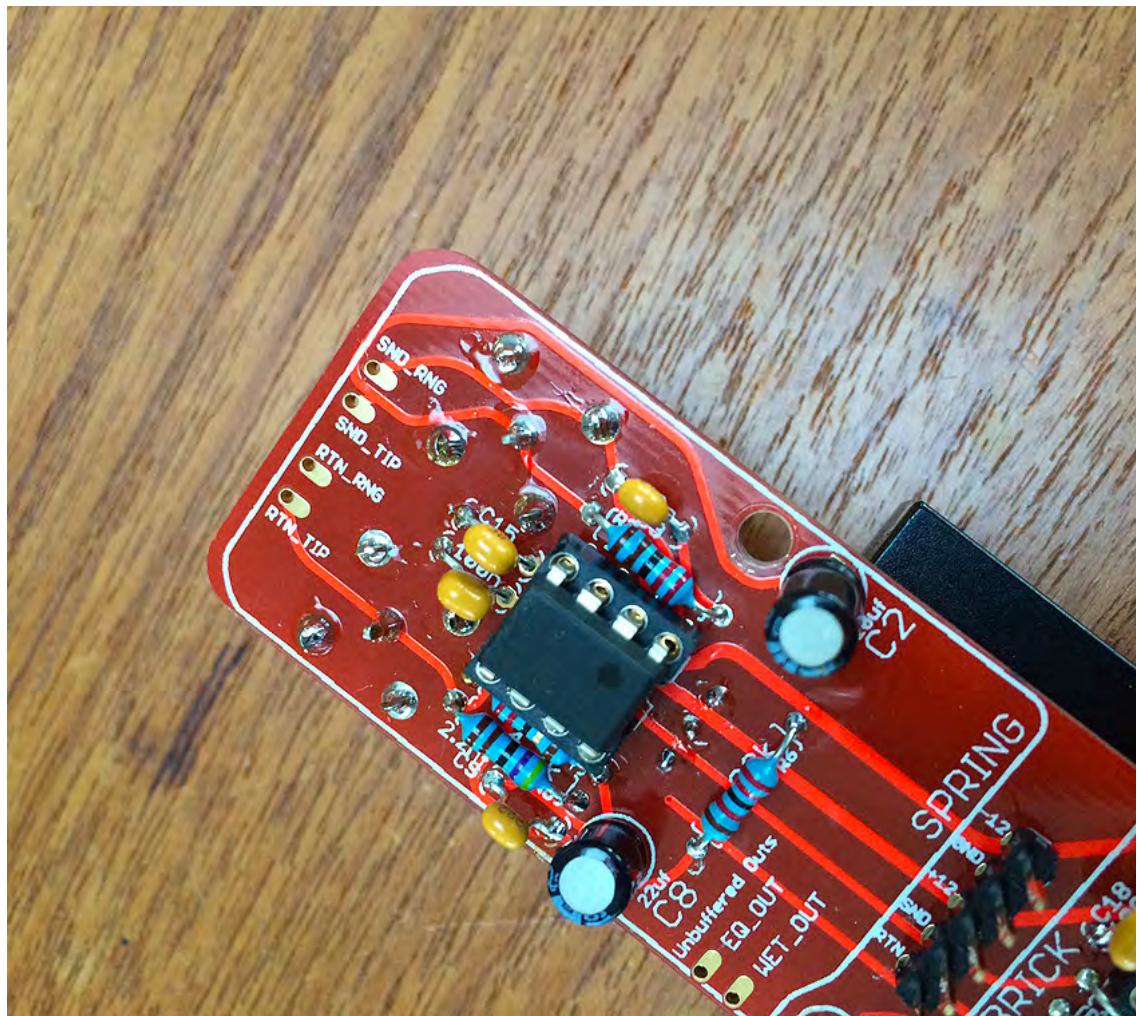
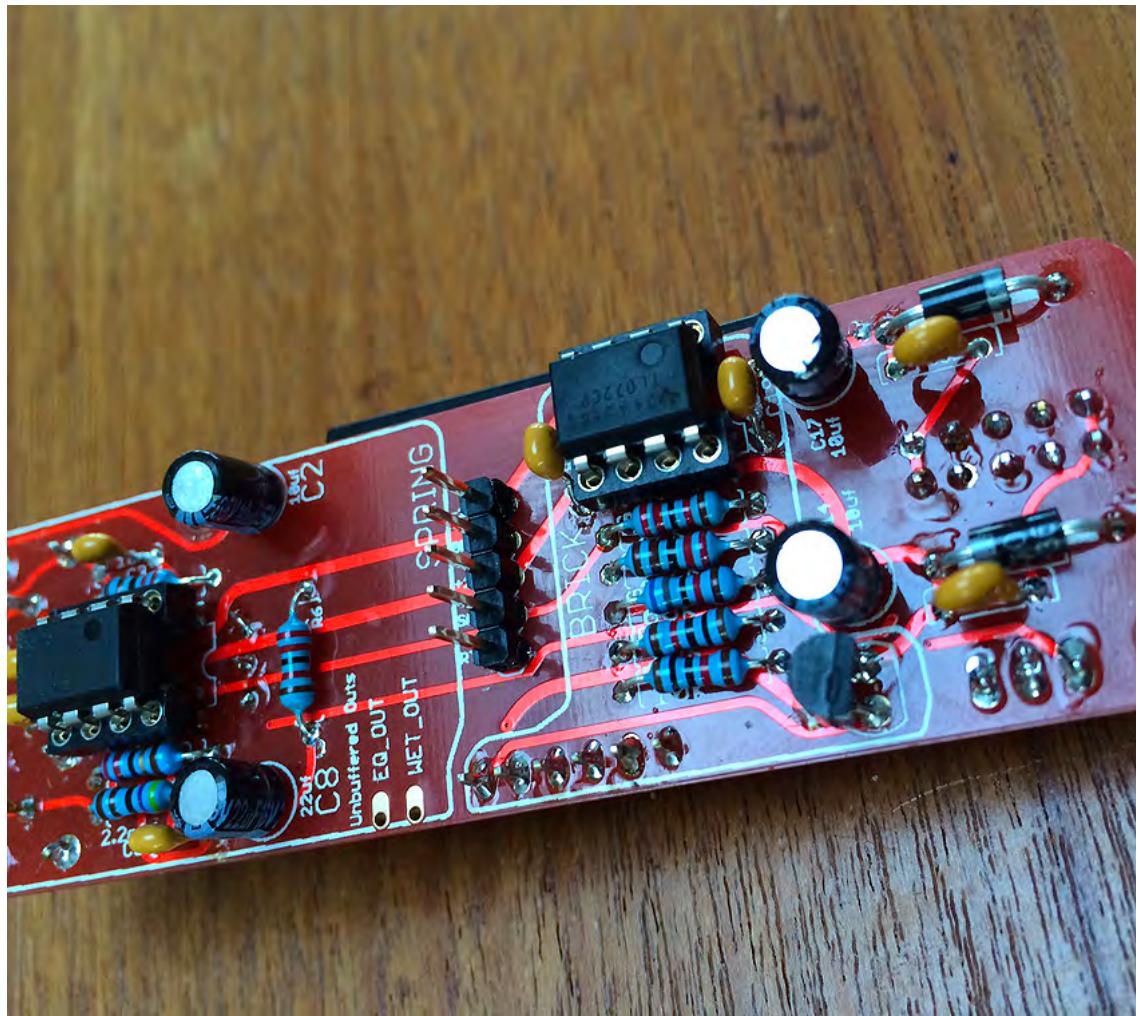
could i have put some resistor in the wrong place?

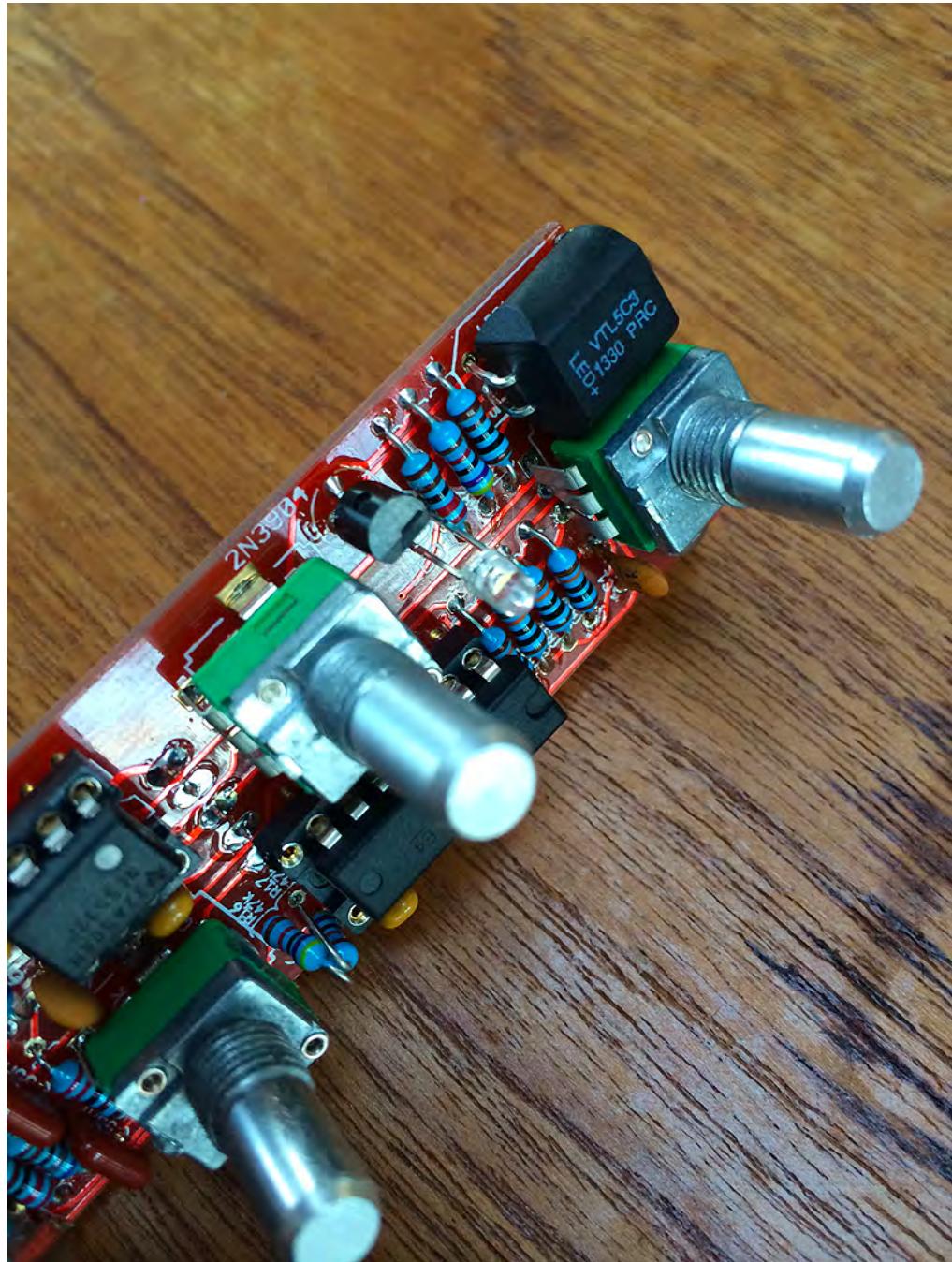
is there somewhere i should quadruple check given the above symptoms?

Yes. But we don't really have enough info to help - can you post pictures? Good, detailed ones? In focus and all that? There's no i

the wrong place or if you've just got lousy solders from what you've typed so far.







<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

[Back to top](#)

woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

Posts: 801
Location: UK

[Back to top](#)

Posted: Mon Dec 16, 2013 2:37 pm Post subject:

Do you have a picture of the underside of the board by the Vactrol?
Some of the pins on the knobs look a little bit fruity, and some pins look to not be soldered, but it's hard to see from the top photo's.



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

[Back to top](#)

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

[Back to top](#)

Posted: Mon Dec 16, 2013 2:49 pm Post subject:

337is wrote:

Thanks for the additional insight on the Turing build L.C.O., I appreciate it. :-)

Thanks too **Rick Burnett** on the DAW details ... I thought you might have worked out a super nifty eurorack trick. 

If I was going to do this eurorack only, I think what I'd do is set the reverb to full wet, then route the input to the spring and to one side of the full wet output into the VCA. Then I'd take both outputs of that and feed them into my mutamix. I'd set the VCA up so a control voltage controlling the channels inversely.

At least, that is where I would start. 😊

[Back to top](#)

Posted: Mon Dec 16, 2013 2:55 pm Post subject:

So looking at the schematic, it looks like I would need to adjust R6 (increase) from 22k to drive stronger out of the spring recover circuit.

I'm imagining the same is true of R24 (68k) on the brick circuit possibly?

I guess some experimentation is in order. I should just socket these so I can test values easier.

What do other people do when they want to change in and out resistors?

taylor12k
Veteran WigglerJoined: 13 Feb 2011
Last Visit: 07 Jan 2015Posts: 666
Location: pound ridge, ny

Posted: Mon Dec 16, 2013 3:29 pm Post subject:

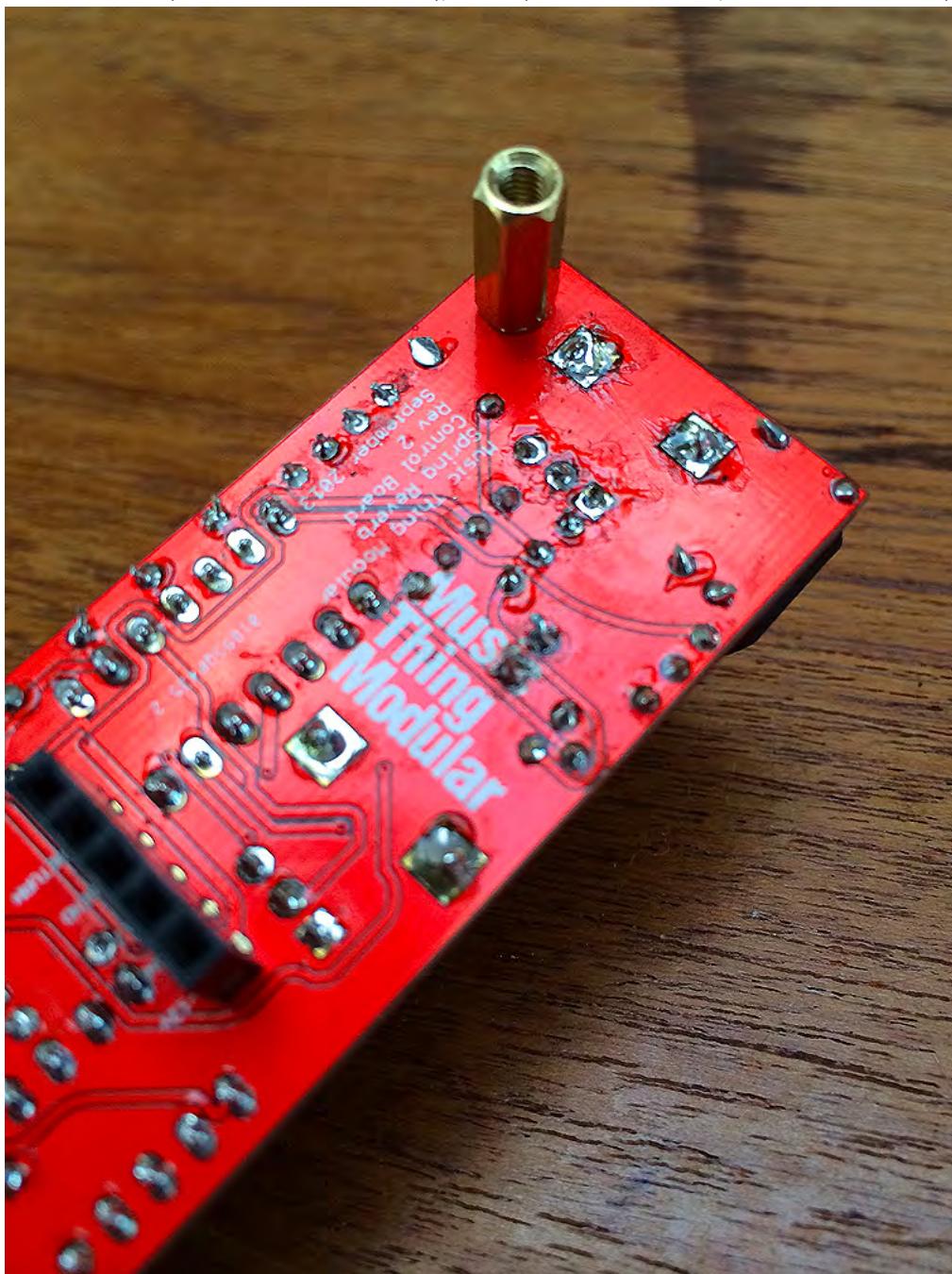
here are some back side pics. i solder the backside. sometimes the solder doesn't get wicked up to the front. but that's never been a problem i actually went to the front and also soldered the front on some of them that looked too empty.

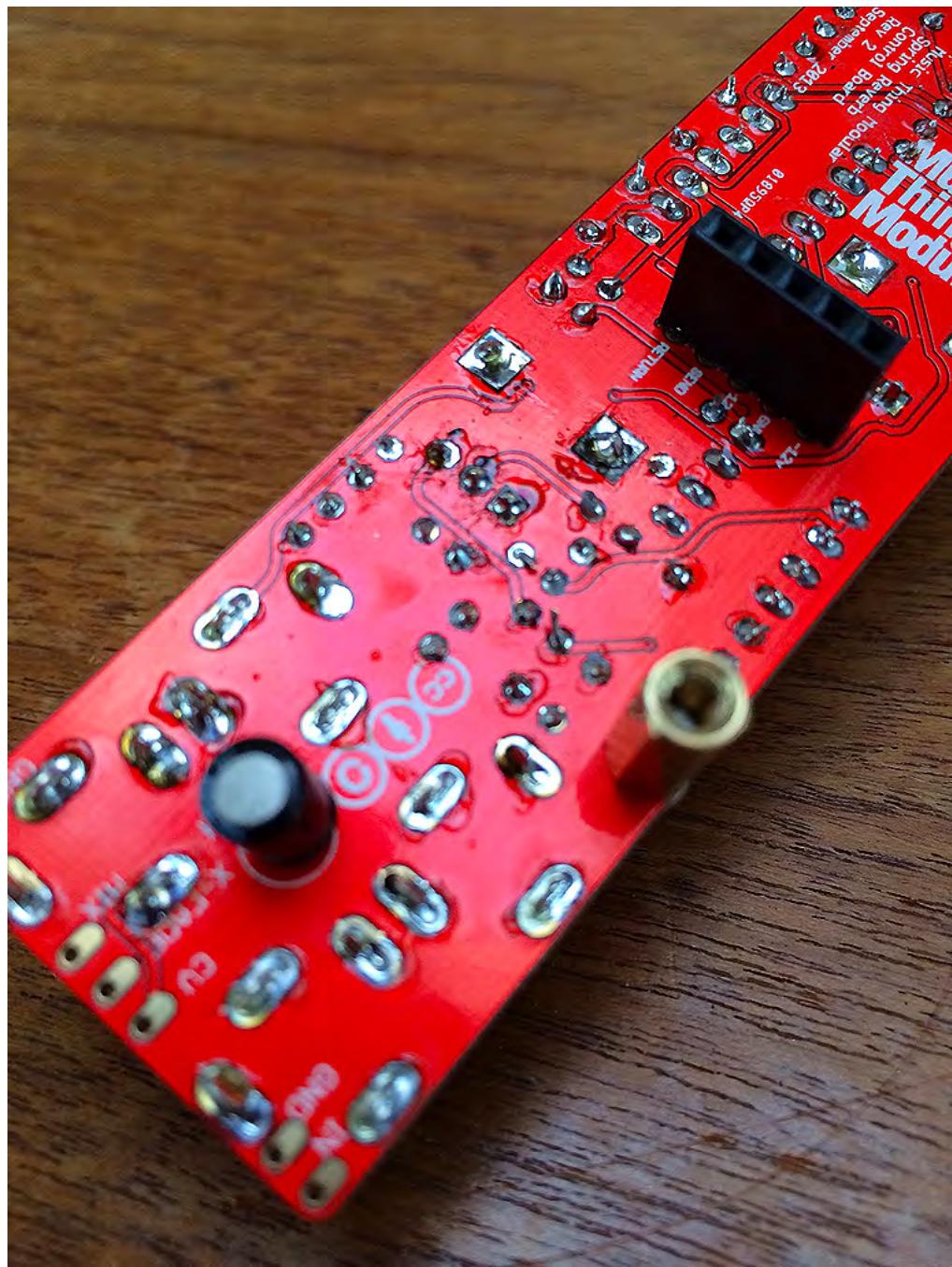
(damn, i think they're a bit blurry)

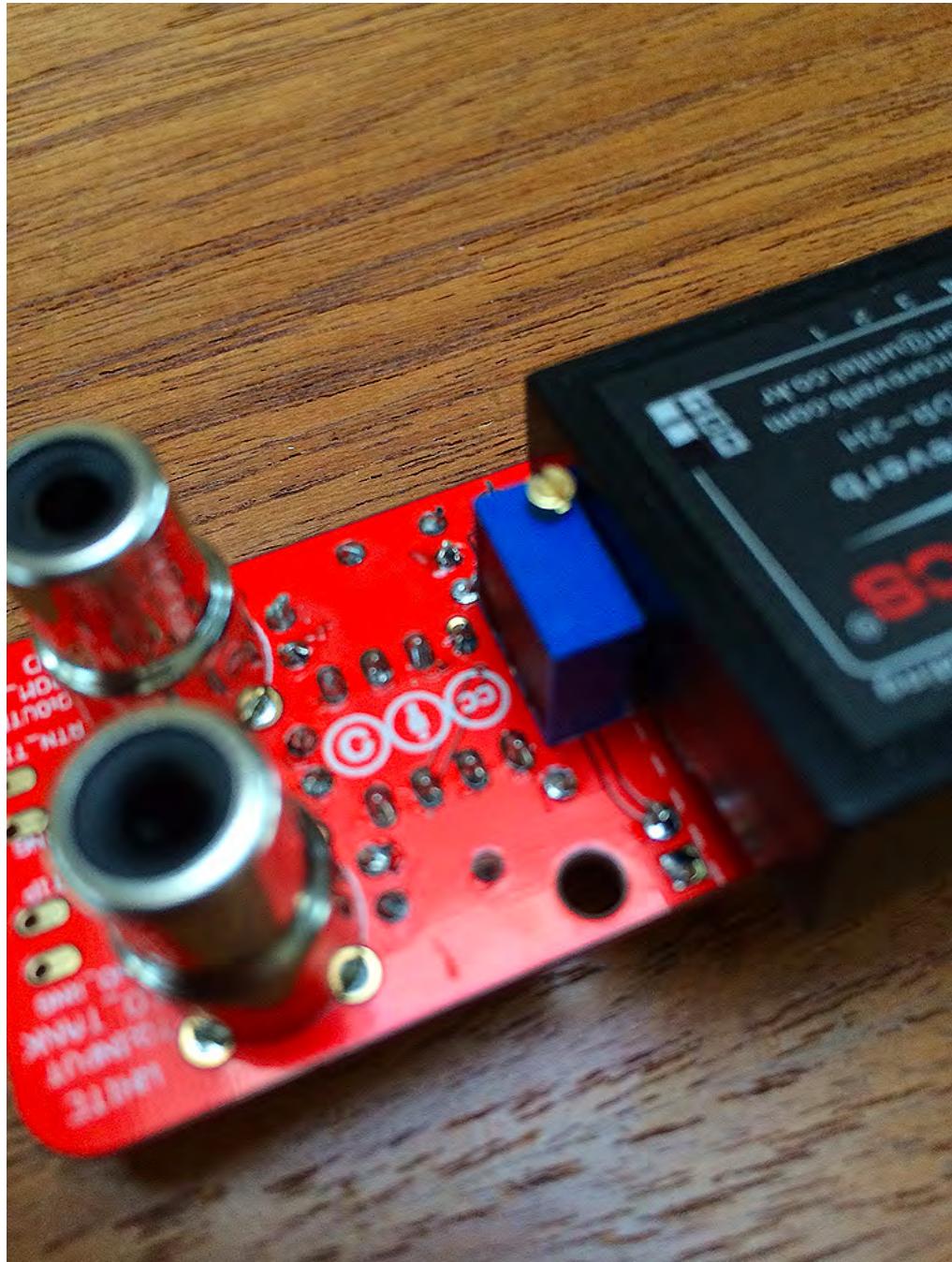
woodster wrote:

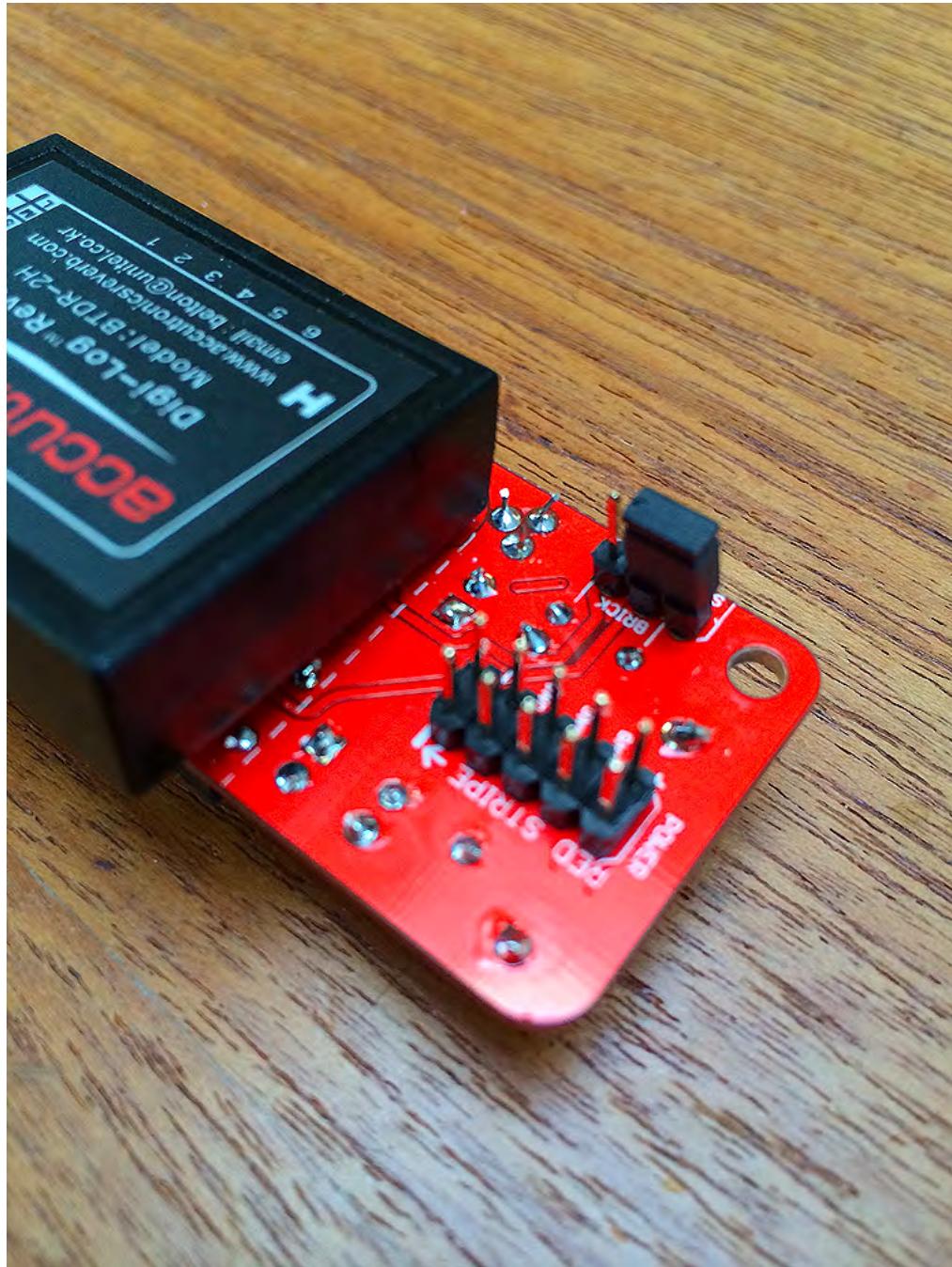
Do you have a picture of the underside of the board by the Vactrol?

Some of the pins on the knobs look a little bit fratty, and some pins look to not be soldered, but it's hard to see from the top photo's.









<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

[Back to top](#)

radiokoala
must. build. jacuzzi

□ Posted: Mon Dec 16, 2013 3:41 pm Post subject:

taylor12k wrote:



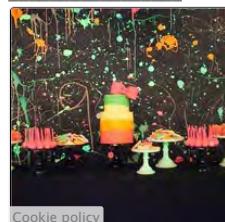


Joined: 18 Oct 2011
Last Visit: 22 Jan 2015



Posts: 1530

Personally, (or from this pic) it looks to me like that either some IC socket legs aren't soldered or some of them are soldered very poorly. You themselves, the solder joint must look like a blob. I'd pay attention to these first...my opinion.



radiokoala
Birthday Session



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[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Mon Dec 16, 2013 4:00 pm Post subject:

Yeah I'd say go over the joints again... you might want to consider getting a better iron or a new tip...

Also you know the jumper is in the wrong place for the brick right?

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Joined: 13 Feb 2011
Last Visit: 07 Jan 2015



Posts: 666
Location: pound ridge, ny

Posted: Mon Dec 16, 2013 4:12 pm Post subject:

thanks.. yeah, i'll go over some of these parts again, tho i think in the light they look a bit worse than they really are... but i agree about se

(and yes, as i've said, i'm aware of the jumper, it's in spring mode because the last i tested it was with the spring)

Monobass wrote:

Yeah I'd say go over the joints again... you might want to consider getting a better iron or a new tip...

Also you know the jumper is in the wrong place for the brick right?

<http://www.taylordeupree.com>
<http://www.12k.com>
<http://twitter.com/taylor12k>

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

Posted: Mon Dec 16, 2013 4:20 pm Post subject:

Rick Burnett wrote:

What do other people do when they want to change in and out resistors?

solder in a pot into the resistor position and tweak until it sounds the way you want it. I don't have the schematic in front of me, but if those else you can measure the resistance in-circuit.. but if you're not sure then once the values are right de-solder the pots without disturbing the across the pot.

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Last edited by Monobass on Mon Dec 16, 2013 4:24 pm; edited 1 time in total

[Back to top](#)

Rick Burnett

Common Wigglar



Joined: 07 Nov 2012

Last Visit: 06 Jan 2015

Posts: 164
[Back to top](#)

sduck

WTF?



Joined: 18 Feb 2009

Last Visit: 22 Jan 2015

Posts: 7177

Location: Vortexexaion, TN, USA

[Back to top](#)

woodster

Ultra Wigglar



Joined: 05 Mar 2012

Last Visit: 07 Jan 2015

Posts: 801

Location: UK

[Back to top](#)

woodster

Ultra Wigglar



Joined: 05 Mar 2012

Last Visit: 07 Jan 2015

Posts: 801

Location: UK

[Back to top](#)

Posted: Mon Dec 16, 2013 4:23 pm Post subject:

Monobass wrote:**Rick Burnett wrote:**

What do other people do when they want to change in and out resistors?

solder in a pot into the resistor position and tweak until it sounds the way you want it. I don't have the schematic in front of me, parallel with anything else you can measure the resistance in-circuit.. but if you're not sure the once the values are right de-solder shaft and then measure the resistance across the pot.

Okay, that's what I was going to do, just wanted to make sure there wasn't some other way I wasn't considering. Thanks!

Posts: 164

sduck

WTF?

Taylor, check your standing up resistors - the leads of 2 of these are touching - at least it looks that way in the pics. I wouldn't worry about - they don't actually need to be completely covered in solder as has been suggested. There are a few other solders that look suspicious, like solder bridges. In general it looks like not enough heat and too much solder. And possibly the wrong kind - a LOT of flux is still on there - h

Do you have a DMM? Or something that can act as a continuity tester? There's not a lot of components on this thing, you can test for proper Just go over all your components, make sure there is continuity where there is supposed to be, and no shorts to nearby parts that aren't s

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

Joined: 18 Feb 2009

Last Visit: 22 Jan 2015

Posts: 7177

Location: Vortexexaion, TN, USA

[Back to top](#)

Posted: Mon Dec 16, 2013 4:46 pm Post subject:

sduck has the eye's of a nananinja



Joined: 05 Mar 2012

Last Visit: 07 Jan 2015

Posts: 801

Location: UK

[Back to top](#)

Posted: Mon Dec 16, 2013 5:18 pm Post subject:

337is wrote:

woodster, your comment will thrill the missus. She was so proud of our work that she could hardly sleep the night after our build was completed enthusiasm was even more palpable. I asked her if she was up for more builds and she said "BRING 'EM!" God I love her.

Your words mean a lot to me. Thanks so much!



Hey, my pleasure.

Just saying it as I see it, so well done to you and yours for starting in such style.

I got off to a good start, which most certainly helped keep the wind in the sails with my DIY.

Turing Machine (plus expanders) is great, I like using it (them) at audio rates, as much as a seq.

If you do ever order one, while you're at it you really should grab a Manhattan Audio CVP kit if they are in stock (and you have the cash).

IMHO it's a truly fantastic utility module, and also a very well documented Thonk build.

[Back to top](#)

taylor12k
Veteran Wiggler



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015



Posts: 666
Location: pound ridge, ny

Posted: Mon Dec 16, 2013 5:32 pm Post subject:

weird, what happened to my post? it never showed up

if i remember what i said:

- yeah, the resistors were touching. i moved them away from each other. unfortunately it didn't change anything
- solder is rosin core 60/40. iron is a decent one. i have set to 750 degrees. should it be hotter?
- don't have any component testing equipment.. no..

getting pretty frustrated with this. may junk it in a box and build the other one. (i bought 2 kits) to see if i have better luck.

sduck wrote:

Taylor, check your standing up resistors - the leads of 2 of these are touching - at least it looks that way in the pics. I wouldn't worry about them - they don't actually need to be completely covered in solder as has been suggested. There are a few other solders that look suspicious, I or have solder bridges. In general it looks like not enough heat and too much solder. And possibly the wrong kind - a LOT of flux is still on the flux!

Do you have a DMM? Or something that can act as a continuity tester? There's not a lot of components on this thing, you can test for proper easily. Just go over all your components, make sure there is continuity where there is supposed to be, and no shorts to nearby parts that are

<http://www.taylordeupree.com>

<http://www.12k.com>

<http://twitter.com/taylor12k>

[Back to top](#)

profile pm

woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015



Posts: 801
Location: UK

Posted: Mon Dec 16, 2013 5:40 pm Post subject:

...

Last edited by woodster on Mon Dec 16, 2013 5:42 pm; edited 1 time in total

[Back to top](#)

profile pm

woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015



Posts: 801
Location: UK

Posted: Mon Dec 16, 2013 5:41 pm Post subject:

750

I went by Ray Wilsons advice and stuck between 320c (608f) and 380c (716f) to start with.

Wouldn't the higher temperatures destroy the rosin in the solder, preventing a decent flow ?

[Back to top](#)

profile pm

horstronic
Ultra Wiggler

woodster wrote:

750



I went by Ray Wilsons advice and stuck between 320c (608f) and 380c (716f) to start with.

Wouldn't the higher temperatures destroy the rosin in the solder, preventing a decent flow ?

Yeah, that's definitely too hot!

Maybe you destroyed the transistor?

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

Posts: 756
Location: Germany

Stuff for sale!

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youtube

[Back to top](#)

horstronic
Ultra Wiggle



Posted: Mon Dec 16, 2013 6:16 pm Post subject:

By the way, I just finished mine and it sounds AWESOME!



(How can I turn that picture??)

The knobs are not the final ones, just had these lying around...

Thanks for this very great kit! Took me about 2-3 hours and it was fun and pretty easy to build! You guys rock!

Next will be the Turing Machine, I hope I will have the time to finish it before christmas.

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

[Back to top](#)

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woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

 Posts: 801
Location: UK

Posted: Mon Dec 16, 2013 6:27 pm Post subject:

taylor12k wrote:

getting pretty frustrated with this. may junk it in a box and build the other one. (i bought 2 kits) to see if i have better luck.

Please, Don't give up on it.

Get a cheap DMM if you can, do a bit of re-flowing at a cooler temp.

As Horstronic says, the Trannies might be baked, but that's an easy fix with some patience and desoldering braid.

It WILL work if you want it too...

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

Posted: Mon Dec 16, 2013 6:47 pm Post subject:

You should wait for the build document in the next few days Taylor, just in case. But really I'd advise investing in a new iron and a decent p practice on some of the cheaper kits you can get from RadioShack or the like until you're getting the kind of joints in this video

http://m.youtube.com/watch?v=I_NU2ruzyc4

If you're doing what it suggests and not visually getting those nice shiny conical joints on both sides of the board then you need to rethink y

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

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woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

 Posts: 801
Location: UK

Posted: Mon Dec 16, 2013 7:07 pm Post subject:

Yes, Snips.

In the pictures that brick does look lodged at a funny angle, with resistor leads protruding here and there.

[Back to top](#)

taylor12k
Veteran Wiggler



Joined: 13 Feb 2011
Last Visit: 07 Jan 2015



Posts: 666
Location: pound ridge, ny

Posted: Mon Dec 16, 2013 8:02 pm Post subject:

if the transistors are dead... what do i do? just source a couple more?

is there a part number on those?

woodster wrote:

taylor12k wrote:

getting pretty frustrated with this. may junk it in a box and build the other one. (i bought 2 kits) to see if i have better luck.

[Back to top](#)

carynrich
Wiggling with Experience



Joined: 19 Dec 2009
Last Visit: 03 Jan 2015



Posts: 382
Location: Chicago

Posted: Mon Dec 16, 2013 8:32 pm Post subject:

Besides lowering the temp to 700, i would also suggest using 63/37 instead of 60/40. Apparently less cold joints due to a lack of a semi-sol

<http://soundcloud.com/majesticbear>

[Back to top](#)

radiokoala
must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015



Posts: 1530

Posted: Tue Dec 17, 2013 3:19 am Post subject:

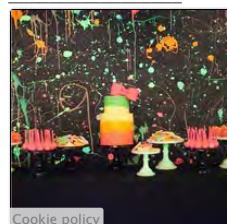
If you guys decide to solder at 700-750 it's your choice but don't get surprised when you destroy your expensive components....

carynrich wrote:

Besides lowering the temp to 700, i would also suggest using 63/37 instead of 60/40. Apparently less cold joints due to a lack of a semi-solid

Besides seriously taking this advice, I would also suggest reading data sheets first:

When hand soldering, it is important to limit the maximum temperature of the iron by controlling the power. It is best if a 15W or 25W iron lead soldering temperature (1/16" from the case for 5 seconds) is 260°C. An RMA rosin core solder is recommended. Sn60 (60% tin / 40% lead) solder is recommended for wave soldering opto components into printed circuit boards. Other alternatives are S recommended soldering temperature is 260°C with a maximum duration of 5 seconds



radiokoala
Birthday Session



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[Back to top](#)

mechie
Wiggling with Experience

Posted: Tue Dec 17, 2013 4:41 am Post subject:

Well, I currently use a 50W iron at 350C (662F) and rosin core 60/40 solder.
Never cleaned any flux off a board and have never had a problem!



Joined: 20 Jan 2011
Last Visit: 07 Jan 2015

Posts: 259
Location: North Lincs, UK

[Back to top](#)

There will be something fixable so don't quit yet - if you can get a test meter it will prove invaluable in due course.
Build the second kit and use it to compare voltages with this faulty one - it's a good way to locate a fault.

Posted: Tue Dec 17, 2013 4:46 am Post subject:

Thats 500 degrees F! Haven't had much luck melting solder at that temp, and i've built over 120 MOTM modules.

Re, expensive components. Thats what sockets are for 😊

<http://soundcloud.com/majesticbear>



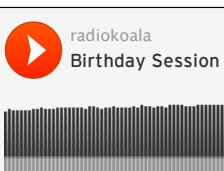
Joined: 19 Dec 2009
Last Visit: 03 Jan 2015

Posts: 382
Location: Chicago

[Back to top](#)

Posted: Tue Dec 17, 2013 4:56 am Post subject:

260°C is not enough yes, but 350-380 is. And the higher the temperature is, the lesser time it takes to destroy the part.



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radiokoala
Birthday Session

Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

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[Back to top](#)

Posted: Tue Dec 17, 2013 5:33 am Post subject:

mechie wrote:

And the higher the temperature is, the lesser time it takes to destroy the part.

I would say this is half-true!

If you need to dwell on a joint because there is only just enough heat that heat will have longer to conduct up the component's leg and dan silly) of heat you can heat the PCB track much quicker, make the solder flow quicker and get out of there before the component realises wtf



Joined: 20 Jan 2011
Last Visit: 07 Jan 2015

Posts: 259
Location: North Lincs, UK

[Back to top](#)

Posted: Tue Dec 17, 2013 5:49 am Post subject:

taylor12k wrote:

6. now it's intermitent again... spring reverb if i touch various components, but only 100% wet or 100% dry.
7. i'm not getting anything out of my brick.. unless the brick reverb is so short you can't even hear it.



Joined: 20 Jan 2011
Last Visit: 07 Jan 2015

Posts: 259
Location: North Lincs, UK

[Back to top](#)

I just thought...

Near the brick, opposite side of PCB there is a 5v regulator, a 78L05, this is identical to the 2n3905 transistor.
READ the tiny text printed on both of these components and confirm they are not swapped one for the other.

IF the above is correct...

You say the spring is "100% wet or 100% dry" - what is the front panel LED doing? does it show 100% on and 100% off to match the 100% but just to be sure.

[Back to top](#)

fluxmonkey
Super Deluxe Wiggler

Posted: Tue Dec 17, 2013 8:16 am Post subject:

fracking: BAD. frac rack: GOOD.

here's a frac format panel for ya'll. i moved the LED so as not to interfere w/ the swoosh graphic, so that will have to be offset. other than i will confirm in a week or so when i get the panel. obviously you can edit to suit your tastes...



Description:
Filename: SpringReverbThonkrev1_frac.fpd
Filesize: 1.93 KB
Downloaded: 6 Time(s)

Joined: 18 Oct 2008
Last Visit: 21 Jan 2015



Posts: 1554

www.fluxmonkey.com

please email (rather than PM) with any direct correspondence

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928

Location: SW MI

Posted: Tue Dec 17, 2013 9:30 am Post subject:

Not trying to be funny, I honestly don't know.

radiokoala wrote:

I would also suggest reading data sheets first:

Where does one find these sheets? What temperature was the one question we had during our build and we couldn't seem to find the a possible we missed seeing it, but we spent several minutes looking for it. Eventually I turned to the web and did a general search for "how came back with quite a few suggestions ... but almost all of them were for over 700F. This made us nervous so we went out at 730F.

carynrich wrote:

Besides lowering the temp to 700, i would also suggest using 63/37 instead of 60/40. Apparently less cold joints due to a lack of a semi-solid

Thanks for this tip. I used 60/40 on this build, and with my tip as hot as it was I found that my solder behaved poorly at times ... pooling u the tip. I'm going to order a roll of 63/37.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928

Location: SW MI

Posted: Tue Dec 17, 2013 9:36 am Post subject:

Rick Burnett wrote:

At least, that is where I would start. 😊

It's funny how these starting points morph into the strangest places ... ;-)

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928

Location: SW MI

Posted: Tue Dec 17, 2013 9:40 am Post subject:

woodster wrote:

Turing Machine (plus expanders) is great, I like using it (them) at audio rates, as much as a seq. If you do ever order one, while your at it you really should grab a Manhattan Audio CVP kit if they are in stock (and you have the cash). IMHO it's a truly fantastic utility module, and also a very well documented Thonk build.

Running at audio does sound like a lot of fun, thanks for the encouragement.

A few Manhattan Audio kits are on my radar. The CVP like you mentioned, and his MIX. I could use many more utilities like these scattered Thonk's At-At-Ats.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)

Posted: Tue Dec 17, 2013 9:42 am Post subject:

Congrats **horstronic!** Looks like a beauty.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

radiokoala
must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

Posted: Tue Dec 17, 2013 10:00 am Post subject:

337is wrote:

Not trying to be funny, I honestly don't know.

radiokoala wrote:

I would also suggest reading data sheets first:

Where does one find these sheets? What temperature was the one question we had during our build and we couldn't seem to documentation. It's possible we missed seeing it, but we spent several minutes looking for it. Eventually I turned to the web and hot should I solder for PCB work" and came back with quite a few suggestions ... but almost all of them were for over 700F. This our at 730F.

Just type "<name of the part> datasheet" in google and you'll have luck finding it in close to 100% cases.

General tip is diodes & LEDs are more sensitive, some switches too. In regard to soldering temp, 350 C should be fine for almost everything without damaging anything successfully too, the rule is not to hold the soldering iron tip for too long at the leg. If you didn't manage to sold again after a short while instead of trying to do it in one go. If you adhere to this recommendation, you should be safe I assume.

The screenshot shows a video player interface. On the left is a thumbnail image of a colorful, abstract scene with various objects and lights. To the right of the thumbnail is a red play button icon. Below the play button is the text "radiokoala" and "Birthday Session". To the right of the play button is a large, horizontal waveform visualization of the audio from the video. At the bottom left of the player area is a small "Cookie policy" link.

/ Analog & modular videos /
Soundcloud

[Back to top](#)

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

Posted: Tue Dec 17, 2013 10:52 am Post subject:

337is wrote:

Rick Burnett wrote:

At least, that is where I would start.

It's funny how these starting points morph into the strangest places ... ;-)

That's the absolute truth! I'm conceptualizing my expander and have already over designed it, then made it simple, then over designed it. I

[Back to top](#)



Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

337is wrote:

Not trying to be funny, I honestly don't know.

radiokoala wrote:

I would also suggest reading data sheets first:

Where does one find these sheets?

I'm not following the music thing Mouser BOM religiously, but for all the bits that really matter with regard to temp or fragility I am, so all t

http://www.mouser.com/ProjectManager/ProjectDetail.aspx?AccessID=53fa6_27747

As a general rule of thumb though, if you're getting good looking shiny joints on both sides of the PCB and you're doing it *quickly* and tid gooey flux or even blackened stuff.... then you're probably in a good place.

If you have to dwell on stuff or keep revisiting joints then there is definitely something not going right.

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[Back to top](#)



337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)

[□ Posted: Tue Dec 17, 2013 2:24 pm Post subject:](#)

Having watched this series: <http://www.youtube.com/playlist?list=PL926EC0F1F93C1837>

I was terrified to leave my soldering tip on components for longer than two seconds. I think this led to the solder not pooling adequately on and the scale of this kit is smaller than I'm used to working with so I couldn't always be certain that my fillets were formed as they should I that I needed to keep the tip on longer than I naturally wanted to. Once I got comfortable with the heat, action, and flow, I found a comfor

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)



337is
Ultra Wiggler



[□ Posted: Tue Dec 17, 2013 2:31 pm Post subject:](#)

radiokoala wrote:

Just type "<name of the part> datasheet" in google and you'll have luck finding it in close to 100% cases

Ah, that makes sense. And from this do I correctly infer that some parts/components have different requirements? Like transistors my like temp? I used a really fine pointed soldering tip for this build, and there were a few times, like when soldering the pots and the knobs, that the tip for my chisel tip. The holes to fill with solder were much wider and deeper and the legs of the component were equally larger. I felt I enough of the pad and leg at the same time. Live and learn. ☺

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)



sduck
WTF?



[□ Posted: Tue Dec 17, 2013 3:37 pm Post subject:](#)

While I generally applaud anal attentiveness to details, I think there's a bit of overthinking going on about soldering here. For the record, I temperature control, no base, just a plug, with the standard fine screwdriver tips (ST1). And I've built hundreds of modules with this, and first power up. I am a bit anal about solder - I use Kester 331 water cleanable organic flux solder for most of the pcb parts, and Kester 245 cleaning of the soldering tip, and proper soldering techniques - this is where I get anal, and could write a book. But don't want to derail this

Just made a video which features my new dual reverb - starts out fairly dry, but gets wetter as things proceed. And I switch between the to sometimes hard to tell which is which -

edited to switch to the newer stereo version -

Joined: 18 Feb 2009
Last Visit: 22 Jan 2015



Posts: 7177
Location: Vortexexia, TN, USA

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928
Location: SW MI

[Back to top](#)

horstronic
Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015



Posts: 756
Location: Germany

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015



Posts: 928
Location: SW MI

[Back to top](#)

fluxmonkey
Super Deluxe Wiggler



Joined: 18 Oct 2008
Last Visit: 21 Jan 2015



Posts: 1554

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

Last edited by sduck on Sun Dec 22, 2013 2:51 pm; edited 1 time in total

[profile](#) [pm](#)

Posted: Tue Dec 17, 2013 4:12 pm Post subject:

Sweet work **sduck!** The tanks sound great. At time your piece reminded me of Darius Milhaud in a very favorable way. :-)

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

Last edited by 337is on Tue Dec 17, 2013 5:11 pm; edited 1 time in total

Posted: Tue Dec 17, 2013 4:46 pm Post subject:

337is I finished the Turing Machine today (couldn't wait)

Surprisingly it took me just about the same time as the reverb! And as it is far mor documented (at the moment), it even was easier. But I think if something goes wrong, you will spend more time debugging the Turing Machine because there are more parts.

These two modules work together pretty well!

Saw Wave -> Bandpass Filter with high resonance -> LPG controlled by Clock -> Reverb; Cutoff and VCO CV controlled by Turing Machine :

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

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Posted: Tue Dec 17, 2013 5:14 pm Post subject:

Man, that sounds like the new hotness right there **horstronic**. Congrats on the smooth build. Eager to hear some sounds. :-)

A few people have mentioned debugging, checking resistances, etc. I have a digital multi-meter but really have no clue how I would use it i went wrong. If anyone can point me to a good video or webpage covering the basics of troubleshooting circuits (of the sort I'm likely to run ever so grateful.

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

Joined: 29 Feb 2012

Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

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Posted: Tue Dec 17, 2013 11:10 pm Post subject:

are we still talking abt the spring reverb?

Joined: 18 Oct 2008
Last Visit: 21 Jan 2015



Posts: 1554

[Back to top](#)

337is
Ultra Wiggler



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)

[Post](#) Posted: Tue Dec 17, 2013 11:14 pm Post subject:

fluxmonkey wrote:

are we still talking abt the spring reverb?

Most definitely. Especially curious how to successfully troubleshoot a problem in the building of one. Our friend Taylor is still without his cor in suggesting troubleshooting techniques. Fortunately my build went well, but I realize I could just as easily be where he is now and though related to the troubleshooting steps as others had mentioned as I lack the experience of others who can offer more comprehensive help to

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

Posts: 928
Location: SW MI

[Back to top](#)

ootini
Ultra Wiggler



Joined: 23 Mar 2010
Last Visit: 07 Jan 2015

Posts: 829
Location: Dublin, Ireland

[Back to top](#)

[Post](#) Posted: Wed Dec 18, 2013 2:44 am Post subject:

troubleshooting:

1 check continuity with a multimeter between points. no continuity = cold/bad joint.

2 ensure all component values are correct.

3 ensure orientation of polarized components is correct.

that's it really. invest in a nice multimeter that has a beep for continuity testing. it is as essential as an iron. you're just giving yourself ball without one. search for a vc97 multimeter on eBay. good accurate, and doubles as a really accurate frequency tester for tuning oscs. 20 qu

<http://furtherrecords.org/album/sample-hold>

Posts: 829
Location: Dublin, Ireland

[Back to top](#)

nigel
Common Wiggler

Joined: 16 Jan 2013
Last Visit: 07 Jan 2015

Posts: 116
Location: Melbourne, Australia

[Back to top](#)

[Post](#) Posted: Wed Dec 18, 2013 4:17 am Post subject:

My Reverb kit arrived a couple of days ago, but my wife immediately stole it so that she could give it to me as a Christmas present. So I'll t

Posts: 116
Location: Melbourne, Australia

[Back to top](#)

Rick Burnett
Common Wiggler

Posts: 164

[Back to top](#)

[Post](#) Posted: Wed Dec 18, 2013 11:16 am Post subject:

ootini wrote:

troubleshooting:

1 check continuity with a multimeter between points. no continuity = cold/bad joint.

2 ensure all component values are correct.

3 ensure orientation of polarized components is correct.

that's it really. invest in a nice multimeter that has a beep for continuity testing. it is as essential as an iron. you're just giving yourself ball a problem without one. search for a vc97 multimeter on eBay. good accurate, and doubles as a really accurate frequency tester for tuning oscs

Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

Posts: 164

Yep, I pretty much use my DMM to test for continuity. Or, if I am being lazy, resistor values. 😊 Other than that, I use a scope to check if I that.

[Back to top](#)

Poldenstein
Wiggling with Experience

[Post](#) Posted: Wed Dec 18, 2013 11:53 am Post subject:

I recently faced my first (and successful) troubleshooting.

Other than what's been said, I had been suggested to do signal tracing: that is get hold of an oscilloscope and trace the signal starting from component, following the diagram. When signal disappears you have most likely spotted a faulty component. That is how I hit one cap and broken ICs..

And just not to go completely OT, this reverb is so sexy.. I'll get one sooner than later.



Joined: 04 Aug 2013
Last Visit: 22 Jan 2015

 Posts: 254
Location: Italy

[Back to top](#)

[!\[\]\(a0a352b5feace05e670563bc26b6c09b_img.jpg\)](#) [!\[\]\(66b09084d0300e84100f0f291700e825_img.jpg\)](#) [!\[\]\(f7e0c4ee8fc535ec74116dbe3ea7c20c_img.jpg\)](#)

Posted: Wed Dec 18, 2013 11:57 am Post subject:

post like that are never OT anywhere in the DIY forum 😊

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

[Back to top](#)

[!\[\]\(30f876848dc16b719eeb25fa167d4ca6_img.jpg\)](#) [!\[\]\(48c677d5545ef4894bc94a80a65abd58_img.jpg\)](#) [!\[\]\(6895413ead1344e3ca0d1aa148ddd4d5_img.jpg\)](#) [!\[\]\(b92f6ad4e4c6f7e108becbfb8c12d35e_img.jpg\)](#)

Posted: Wed Dec 18, 2013 4:31 pm Post subject:

just finished a quick build of this 😊
what a top kit!!!
even without the build-doc it's no real mission.
Thanks both for sorting this out, it's just what my system needed.

it pairs well with the Serge Res EQ i built last week (thanks Monobass and ALM), and sits happily in the boat/skiff proto from Microscopial.

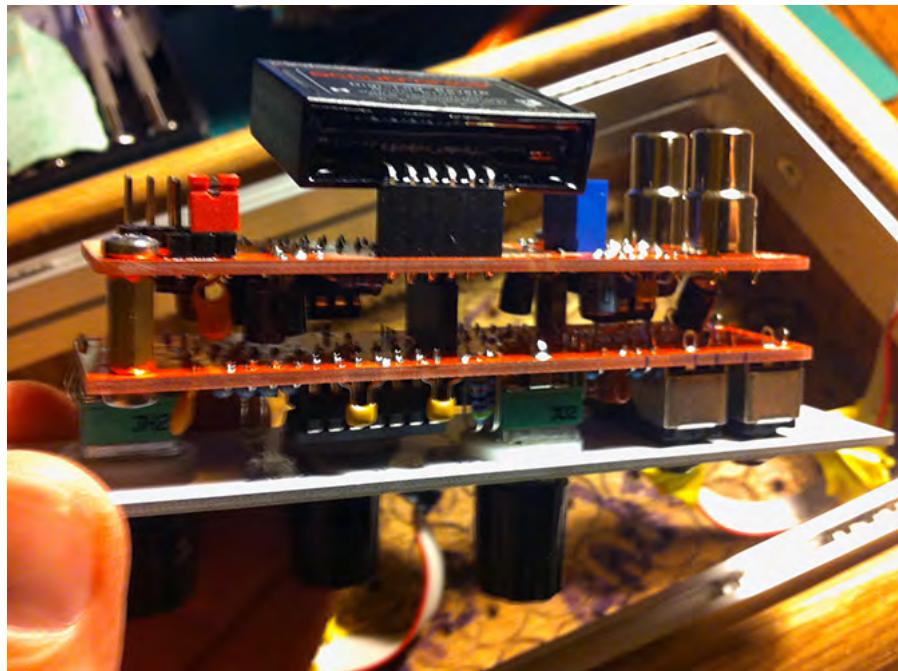




Joined: 28 Dec 2010
Last Visit: 07 Jan 2015

 Posts: 667
Location: Hove





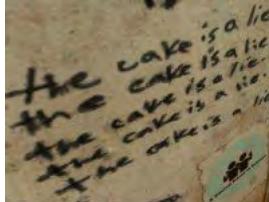
(added a little slotty/header thing here in case i want to swap for the shorter delay brick...)

+++

My links: youtubez's// blogz's// soundcloudz's// soundcloudz's's// Brighton Modular Meets// instagrammmzz// flickrz//
+++

[Back to top](#)

daluxer
Veteran Wiggler



Joined: 17 Nov 2012
Last Visit: 07 Jan 2015

Posts: 721
Location: Berlin

[Back to top](#)

□ Posted: Thu Dec 19, 2013 7:49 am Post subject:

Just received my kit.

I ordered the brick at Banzai(based in Germany) and the Spring Reverb Kit on the same day, but received the Kit earlier! awesome :-)

Now let's build this.. 😊

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

□ Posted: Thu Dec 19, 2013 8:02 am Post subject:

daluxer wrote:

Just received my kit.

I ordered the brick at Banzai(based in Germany) and the Spring Reverb Kit on the same day, but received the Kit earlier! awesome :-)

Now let's build this.. 😊

yeah it took me a long time to catch up with shipping everything, and this week I did... your order was shipped in the timely fashion I norm

But the postal system in the world is pretty messed up right now due to Xmas. I had one parcel arrive in the US quicker than a parcel to W.

Thonk - Modular Synth DIY + Eurorack Accessories Store

en.
Wiggling with Experience

Joined: 25 Apr 2010
Last Visit: 04 Jan 2015

Posts: 386

[Back to top](#)

□ Posted: Thu Dec 19, 2013 8:15 am Post subject:

received, built, played & had fun

props to tom and steve!

rock on!

<https://soundcloud.com/evn734c>
<https://soundcloud.com/temposlope>

croute
Learning to Wiggle

□ Posted: Thu Dec 19, 2013 12:12 pm Post subject:

Joined: 05 Sep 2011
Last Visit: 23 Oct 2014



Posts: 14

Nice kit, Thonk's the best 🎉, fast and serious, nice tracking awesome dealer!

[Back to top](#)

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Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015



Posts: 1024

Location: Côte d'Azur, France

Posted: Thu Dec 19, 2013 12:22 pm Post subject:

My kit arrived today. All looks good.

[ondes](#) | [current rack](#)

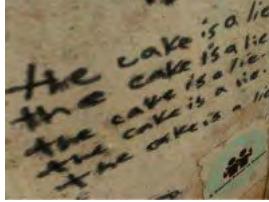
Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

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daluxer
Veteran Wiggler



Joined: 17 Nov 2012
Last Visit: 07 Jan 2015



Posts: 721

Location: Berlin

Posted: Thu Dec 19, 2013 3:54 pm Post subject:

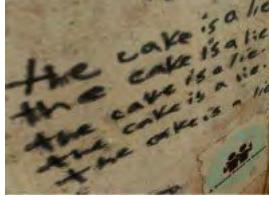
removed

Last edited by daluxer on Thu Dec 19, 2013 3:58 pm; edited 1 time in total

[Back to top](#)

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daluxer
Veteran Wiggler



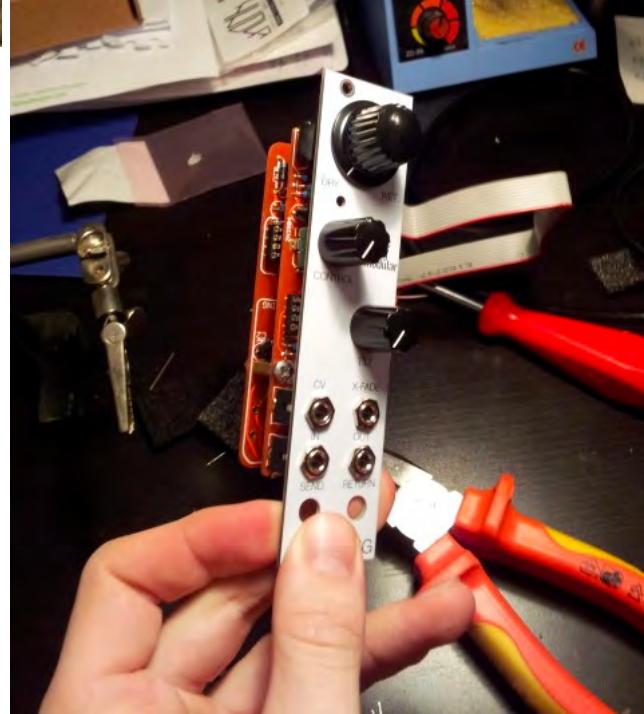
Joined: 17 Nov 2012
Last Visit: 07 Jan 2015



Posts: 721

Location: Berlin

Posted: Thu Dec 19, 2013 3:56 pm Post subject:



Build also done. Half sucessfully - led lights up.

Now I'm sittin here, waiting on my brick..



aaand no, i did not sit 8 hours on this 😊

[Back to top](#)

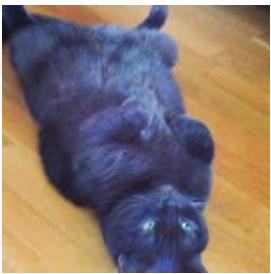
Jonachi
Veteran Wiggler

Posted: Thu Dec 19, 2013 4:03 pm Post subject:

Just built my first, took me about 3hours. Don't know if it works until tomorrow. Great kit though! Thanks Thonk!

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>



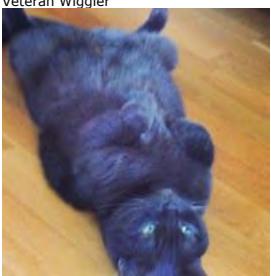
Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

 Posts: 596
Location: Sweden

[Back to top](#)

Posted: Fri Dec 20, 2013 9:23 am Post subject:



Reverb part doesn't work, everything seems fine. Tried both tank and spring.

Light is constantly on
Trim pot doesn't seem to do anything
X-fader and in & outs all seem to work ok

Any ideas?

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

 Posts: 596
Location: Sweden

Last edited by Jonachi on Fri Dec 20, 2013 6:45 pm; edited 1 time in total

[Back to top](#)

Posted: Fri Dec 20, 2013 9:25 am Post subject:



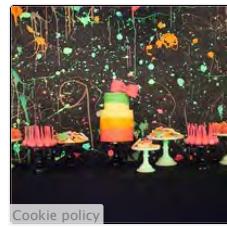
Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

  
Posts: 1530

Uploaded a new image to modulargrid!

Credits: **horstronic** - photo, **radiokoala** - photoshop 😊





radiokoala
Birthday Session



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/ Analog & modular videos /
[Soundcloud](#)

[Back to top](#)

[profile](#) [pm](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Fri Dec 20, 2013 9:26 am Post subject:

Jonachi - which front panel do you have?

have you put the little plastic shunt on the header to select brick or tank?

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

snufkin
Veteran Wiggler



Joined: 04 Jan 2010
Last Visit: 08 Jan 2015



Posts: 608

Posted: Fri Dec 20, 2013 10:37 am Post subject:

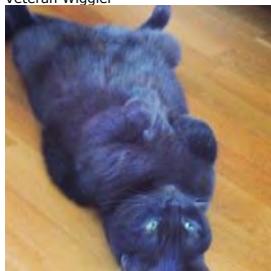
finished mine yesterday took about 40min/hour at work 😊
very lovely easy build !

still have to tweak it for the non-standard tank I am using for test purposes as it still sounds a lil distorted
ordered a brick too so I can go switchable too :3

<http://videocircuits.blogspot.com/>

[Back to top](#)

Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015



Posts: 596

Location: Sweden

[Back to top](#)

Posted: Fri Dec 20, 2013 11:52 am Post subject:

Monobass wrote:

Jonachi - which front panel do you have?

have you put the little plastic shunt on the header to select brick or tank?

Rca in front on panel. Yes, the rubber thing is on the two pins within the lines that say brick.

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>

<http://soundcloud.com/vikingsade>

<http://soundcloud.com/jonachi-1>

Last edited by Jonachi on Fri Dec 20, 2013 6:45 pm; edited 1 time in total

woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015



Posts: 801

Location: UK

Posted: Fri Dec 20, 2013 12:16 pm Post subject:

Jonachi wrote:

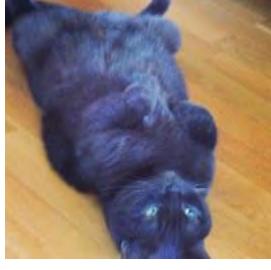
Yes, the rubber thong is on

Wrong Forum...



Sorry couldn't resist

Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015



Posts: 596

Location: Sweden

[Back to top](#)

Posted: Fri Dec 20, 2013 1:09 pm Post subject:

haha, damn phone! =)

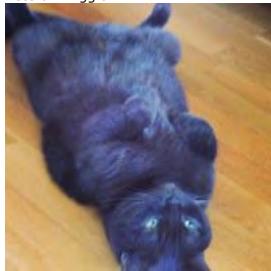
I'm allergic to nuts!

<http://vamusic.bandcamp.com/>

<http://soundcloud.com/vikingsade>

<http://soundcloud.com/jonachi-1>

Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

 Posts: 596
Location: Sweden

□ Posted: Fri Dec 20, 2013 7:14 pm Post subject:

Jonachi wrote:

Reverb part doesnt work, everything seems fine. Tried both tank and spring.

Light is constantly on
Trim pot doesnt seem to do anything
X-fader and in & outs all seem to work ok

Any ideas?

Anyone?

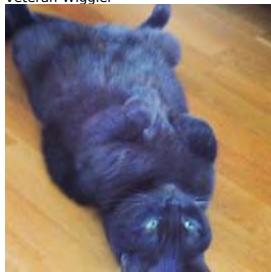
I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

[Back to top](#)



Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

 Posts: 596
Location: Sweden

□ Posted: Fri Dec 20, 2013 7:55 pm Post subject:

mechie wrote:

I just thought...
Near the brick, opposite side of PCB there is a 5v regulator, a 78L05, this is identical to the 2n3905 transistor.
READ the tiny text printed on both of these components and confirm they are not swapped one for the other.

I never paid any attention to the transistors, most likely this is causing my problem. Thanks! Will check tomorrow!

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

[Back to top](#)



sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015

 Posts: 7177
Location: Vortexexaion, TN, USA

□ Posted: Sat Dec 21, 2013 12:16 am Post subject:

If you switched those, it would definitely cause your symptoms. I think. Except I don't think the X-fader would work...

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

□ Posted: Sat Dec 21, 2013 4:52 am Post subject:

I'm going to be fairly incommunicado til after Xmas now, apart from posting the Spring build doc on Monday.

Aluminium panels arrived today, they look great.

Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK



Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

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Tombola
Super Deluxe Wiggle



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

Posted: Sat Dec 21, 2013 4:53 am Post subject:

Yes, that would do it.

On my first prototype PCB I had the pinout for the voltage regulator wrong = magic smoke

<http://musicthing.co.uk/modular/>

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Bakeneko
Common Wiggle

Posted: Sat Dec 21, 2013 5:48 am Post subject:

I was going to attack this Sunday , but it makes sense to wait until Monday for the build documentation.

Skiff : <http://www.modulargrid.net/e/racks/view/65026>



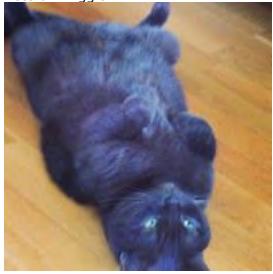
Joined: 28 Jan 2013
Last Visit: 22 Jan 2015

 Posts: 167
Location: Bradford, West Yorkshire, UK.

[Back to top](#)

[!\[\]\(550ba7c73c832bb66ca145305bba1bcd_img.jpg\)](#) [!\[\]\(b396d55c47b7cecf6f4e89ea557278cb_img.jpg\)](#) [profile](#) [!\[\]\(3903433be3da02a9f71554523935cc44_img.jpg\)](#) [!\[\]\(7ff9e754b51d9196e3fd13264351da6f_img.jpg\)](#) [pm](#)

Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

 Posts: 596
Location: Sweden

[Back to top](#)

[!\[\]\(4b83f39ada9eed5d4967095f47a4ae6c_img.jpg\)](#) [!\[\]\(8b5b0a0c0777c9025655987635750d35_img.jpg\)](#) [profile](#) [!\[\]\(a5a2590ac2da83fe86831c7892301fab_img.jpg\)](#) [!\[\]\(7a79870d626829653650a39a3f3f6801_img.jpg\)](#) [pm](#)

horstronic
Ultra Wiggler



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

 Posts: 756
Location: Germany

[!\[\]\(bad5bec254b63e1796138dd52a525c7d_img.jpg\)](#) [!\[\]\(5b90c4479f162d30b3b65833d0e34d43_img.jpg\)](#) [Post](#) [subject](#)

sduck wrote:

If you switched those, it would definitely cause your symptoms. I think. Except I don't think the X-fader would work...

Not really sure that the X-fade did work as aspected when I think about it. It did somthing (!) but my focus was on the reverb part.

Switched the transistors now. Desoldering on this full populated board was a nightmare though and both transistors broke (and created a n have a second kit so I stole new transistors from there, will order more soon. Now off the studio to see if it works (hopefully I didn't too mu

Thanks for your kind help!

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>



Nice! I think I'm gonna do an upgrade for mine

WTB Doepfer A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

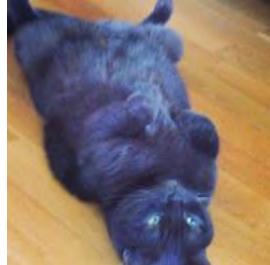
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youtube

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Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

 Posts: 596
Location: Sweden

Posted: Sat Dec 21, 2013 9:32 am Post subject:

Mine works now!! Great with both spring and brick. Brick distorts a bit when sending hot signal, spring does not. Thanks everyone and mer

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

Posted: Sat Dec 21, 2013 9:36 am Post subject:

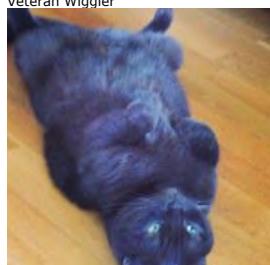
So it was the transistor and voltage regulator that were swapped?

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Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

 Posts: 596
Location: Sweden

Posted: Sat Dec 21, 2013 1:29 pm Post subject:

Indeed, damn stupid mistake. 
I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

[Back to top](#)

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Monobass

Posted: Sat Dec 21, 2013 3:42 pm Post subject:



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

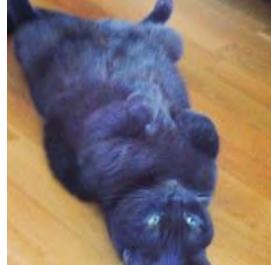
[Back to top](#)

Yeah but we've all done things like that 😊

So was anything damaged or replaced, or you simply swapped them over now and its fine?

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Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

Posts: 596
Location: Sweden

[Back to top](#)

Posted: Sat Dec 21, 2013 3:46 pm Post subject:

both transistors lost their legs in the process, took new ones from kit #2 and ordered some new ones. Also broke all legs on the brick trying desoldering, soldered them back on. No biggie. Should have waited for the build documents though. Lesson learned.

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Sat Dec 21, 2013 3:47 pm Post subject:

Oh sorry yeah I forgot you wrote that.

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Karl_Joseph
Wiggling with Experience

Joined: 08 Oct 2012
Last Visit: 05 Jan 2015

Posts: 412
Location: Minneapolis

[Back to top](#)

Posted: Sat Dec 21, 2013 4:07 pm Post subject:

Can I order just the aluminum panel with the front panel RCA connections? Can you recommend what kind of RCA connections I should buy connectors? Will you sell me the special RCA connectors with the aluminum front panel? I already have the kit. Thanks

- KARL

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Sat Dec 21, 2013 4:15 pm Post subject:

The aluminium panel pictured is for the rear connections only. It's more complicated with the front RCAs as they have to be isolated from e looking into as it's a real squeeze. It'll happen eventually but I'd advise going with the PCB material panel... unless you're happy to wait for 'X' 😊

I'm supposed to be on holiday / my wife's going to kill me etc.

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jgb
Wiggling with Experience

Posted: Sun Dec 22, 2013 7:46 am Post subject:



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015

Posts: 313
Location: Göteborg, Sweden

Build of first (out of two) modules finished! But wait, no reverb sound? Hmm...

Some hours later of troubleshooting, and the culprit was found. Broken TL072 on the reverb board, the one receiving audio from the spring everything works fine!

One question though, I find the output level for the brick quite low (using a BTDR-2H, long reverb time). Can this be improved? Changing F

As for modification purposes, why not stereo output from the brick? Seems like it has two outputs, and the suggested circuit in the datasheet simple.

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Posted: Sun Dec 22, 2013 8:01 am Post subject:](#)

jgb wrote:

As for modification purposes, why not stereo output from the brick? Seems like it has two outputs, and the suggested circuit in the datasheet simple.

Yep no reason why not, would be pretty straightforward by the look of it.

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jgb
Wiggling with Experience



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015

Posts: 313
Location: Göteborg, Sweden

[Posted: Sun Dec 22, 2013 8:01 am Post subject:](#)

One problem found. I cannot get 100% reverb signal, the original signal is always mixed in a bit. Killed the reverb input to the dry/wet control even at max wet signal I get quite a bit of the original signal.

Suggestions?

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jgb
Wiggling with Experience



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015

Posts: 313
Location: Göteborg, Sweden

[Posted: Sun Dec 22, 2013 8:20 am Post subject:](#)

Rick Burnett wrote:

So looking at the schematic, it looks like I would need to adjust R6 (increase) from 22k to drive stronger out of the spring recover circuit.

I'm imagining the same is true of R24 (68k) on the brick circuit possibly?

Have you had time to experiment with this yet? I feel that the level from the brick is quite low, and would like to increase the level.

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

[Posted: Sun Dec 22, 2013 9:26 am Post subject:](#)

jgb wrote:

As for modification purposes, why not stereo output from the brick? Seems like it has two outputs, and the suggested circuit in the datasheet simple.

The stereo output from the brick is quite nice, reminded me of a old BBD delay dynacord reverb I used to have.

However, this circuit - with the vactrol wet/dry - would be trickier to make stereo - you'd need to add a second circuit and some trimming to. Certainly possible, but I didn't want to build it into this module. I'd probably also want to do something nice with cv-able panning

It would be a super easy circuit to design a non-CV mono-to-stereo reverb using the brick and a dual potentiometer for the blend. I think F

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radiokoala
must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015



Posts: 1530

□ Posted: Sun Dec 22, 2013 11:12 am Post subject:

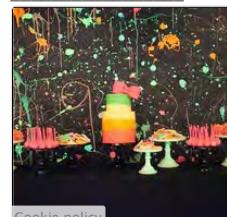
If somebody wants stereo output, here's what you do:

- solder header to the pcb
- take a thin wire and strip its ends
- find the pinout of a chip to know where stereo output(s) are
- before inserting the chip insert wire to the corresponding socket on header
- solder that wire to the signal on a jack (don't forget about grounding connection - find GND either at busboard or module)

Ready now - you have an additional output!

I just did it with another module today, works flawless...I find it to be very nice way of making expanders without losing warranty - just stu experiment and try to connect to outputs of your chips - it may well be something interesting but that didn't make it to the front panel in fi

added a triangle output to my 258c VCO!!!



radiokoala
Birthday Session



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[Back to top](#)

□ Posted: Sun Dec 22, 2013 11:16 am Post subject:

fluxmonkey
Super Deluxe Wiggler



Joined: 18 Oct 2008
Last Visit: 21 Jan 2015



Posts: 1554

has anybody compared the 2 stereo output signals? what's the difference?

www.fluxmonkey.com

please email (rather than PM) with any direct correspondence

[Back to top](#)

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□ Posted: Sun Dec 22, 2013 12:56 pm Post subject:

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

fluxmonkey wrote:

has anybody compared the 2 stereo output signals? what's the difference?

It's quite nice - not just an inverted out or something - I think the reverb is created with lots of little delays from (apparently) the SMD PT2 the stereo mode sends half the taps one way, half the taps the other. Mono mode sums them together.

Neunbauer's patent for the original brick explains how it works (not specifically the stereo version) <http://www.google.co.uk/patents/US8212110>

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

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□ Posted: Sun Dec 22, 2013 1:12 pm Post subject:

jgb
Wiggling with Experience



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015

Tombola wrote:

However, this circuit - with the vactrol wet/dry - would be trickier to make stereo - you'd need to add a second circuit and some trimming to Certainly possible, but I didn't want to build it into this module. I'd probably also want to do something nice with cv-able panning

It would be a super easy circuit to design a non-CV mono-to-stereo reverb using the brick and a dual potentiometer for the blend. I think For



Posts: 313
Location: Göteborg, Sweden

I was thinking of something along the lines of the circuit on page three in this PDF: <http://www.uk-electronic.de/PDF/Belton%20BTDR-2.pdf>

Nothing fancy, just a stereo out that I can connect straight to my main mixer. 😊

I really liked the sound of the brick in the module, if I only could get rid of the bleed from the dry sound and get 100% wet.

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[Back to top](#)

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radiokoala
must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

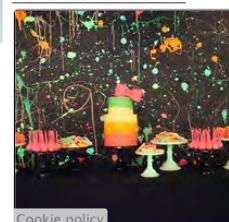
Posted: Sun Dec 22, 2013 1:23 pm Post subject:

jgb wrote:

I really liked the sound of the brick in the module, if I only could get rid of the bleed from the dry sound and get 100% wet.

With a vactrol you unlikely could. I think all vactrols bleed...just the way they are.

BTW, fun part about PT2399 Tom - now I will have a PT2399 delay *and* a PT2399 reverb! 🎉



radiokoala
Birthday Session



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sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015

Posts: 7177
Location: Vortexexiaon, TN, USA

Posted: Sun Dec 22, 2013 2:49 pm Post subject:

jgb wrote:

One problem found. I cannot get 100% reverb signal, the original signal is always mixed in a bit. Killed the reverb input to the dry/wet contr and even at max wet signal I get quite a bit of the original signal.

Suggestions?

That's just a part of the design - the vacrol based x-fader is a bit of a compromise design. You can increase the voltage going to the vactrol cause the leds to burn brighter and cut off the signal more, you can even make R11 a wire and it will cut off the original signal completely. come up really suddenly when turning the mix knob - you lose all subtlety in the amount of mix that you get.

I experimented a bit with this, and found that for actual use I preferred it with the stock R11 value - I don't mind having a bit of original sig up. Generally I don't have the mix full up anyway.

What I did was bring out the completely wet out to the front panel via a unity gain buffer amp, as described earlier in the thread. So if you

BTW if you checked out my demo video of this (on page 48 or follow the like in my sig), you'll note that although the brick is a bit less full about the same volume in output. Your big difference may just be the way they're calibrated or something?

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Sun Dec 22, 2013 4:13 pm Post subject:

Thonk kit build document is up

<http://thonk.co.uk/documents/springreverb/>

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[Back to top](#)

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jgb
Wiggling with Experience

Posted: Sun Dec 22, 2013 4:34 pm Post subject:

sduck: Thanks for a detailed and informative answer!

I think I will have to record some sound examples to see if someone else has the same bleed and low level of the reverb sound. If the reve



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015



Posts: 313
Location: Göteborg, Sweden

[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

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radiokoala

must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015



Posts: 1530

the dry sound, the bleed would barely have been audible, but now the dry signal is actually louder than the reverb from the brick. Even wit

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Posted: Sun Dec 22, 2013 4:37 pm Post subject:

jgb I recommend checking these two sections of the build manual, these can contribute to harmless short circuits that can have exactly the

Section 14 - on page 7 - Modifying Jacks

Section 35 - on pages 16 & 17 - Isolating Front panel RCAs

<http://thonk.co.uk/documents/springreverb>

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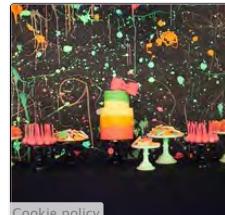
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Posted: Sun Dec 22, 2013 5:34 pm Post subject:

Hey Steve, at page 11 you have in three places written resistors instead of capacitors. Not the biggest of the deals, but I thought I'll let you

Upd. Another thing, I think it could be helpful if you wrote number codes (that are on a body of a capacitor) next to capacitors ratings. Proposal good as is, but I think my proposal isn't overkill anyway, as capacitors look all the same and it's easier to make a mistake than even with resistor!

Upd.2 Page 12 - "2N3904 voltage regulator" instead of "2N3904 transistor". You're welcome 😊



radiokoala
Birthday Session



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Posted: Sun Dec 22, 2013 5:43 pm Post subject:

Ah thanks for the resistor thing.

I bag all the capacitors separately and where there's a chance of confusion I do indeed write the number codes on the bags.

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[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

[Back to top](#)

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Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

 Posts: 596
Location: Sweden

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□ Posted: Sun Dec 22, 2013 6:01 pm Post subject:

Monobass wrote:

Thonk kit build document is up
<http://thonk.co.uk/documents/springreverb/>

Thanks! These looks great. Will use them for my second build, will surely spare me some time and frustration! 

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>



fluxmonkey
Super Deluxe Wiggler



Joined: 18 Oct 2008
Last Visit: 21 Jan 2015

 Posts: 1554

[Back to top](#)

□ Posted: Sun Dec 22, 2013 6:32 pm Post subject:

Monobass wrote:

Thonk kit build document is up
<http://thonk.co.uk/documents/springreverb/>

one of the most complete build docs i've seen, very helpful... great job!

www.fluxmonkey.com

please email (rather than PM) with any direct correspondence



Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

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□ Posted: Mon Dec 23, 2013 12:03 pm Post subject:

Lots of loose panels will come in stock in January

White PCB Material - Front and Rear RCAs
Black PCB Material - Front and Rear RCAs - **New!**
Aluminium Panel - Rear RCAs

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skullservant
Caveman Dirgescapes //



Joined: 30 Apr 2012
Last Visit: 20 May 2014

 Posts: 131
Location: 410/MD/USA

[Back to top](#)

□ Posted: Mon Dec 23, 2013 12:45 pm Post subject:

Wowwww, I'm totally going to build this up. I've been looking for a nice spring reverb and this looks most excellent!!

DIRGE // VOID SEANCE



tholos
Common Wiggler



Joined: 31 Jan 2013
Last Visit: 27 Dec 2014

 Posts: 51
Location: riverside, ca

[Back to top](#)

□ Posted: Mon Dec 23, 2013 9:21 pm Post subject:

I think my package from small bear with the brick was stolen off my porch 

Has anybody found a good place to mount a switch?



Nantonos
Super Deluxe Wiggler

□ Posted: Tue Dec 24, 2013 4:31 am Post subject:

tholos wrote:

Has anybody found a good place to mount a switch?

People with patience will get the expansion module, and those of us without are using the front-panel RCA option to get two mis-labelled fr



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

and a 100% wet out (optionally with unsightly veroboard op-amp buffer hanging off the back).

With the spring connection via an internally mounted spring, or else re-using the supplied jack sockets for a case-mounted pair of connectors for metal cases as the grounds on the two connectors must not make contact with each other or case ground).

[ondes | current rack](#)

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

Last edited by Nantonos on Thu Dec 26, 2013 2:34 am; edited 1 time in total

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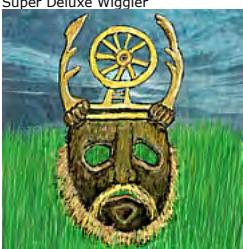
□ Posted: Tue Dec 24, 2013 4:32 am Post subject:

[i]um, forum syntax broken today?[/i]

[ondes | current rack](#)

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

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□ Posted: Tue Dec 24, 2013 7:16 am Post subject:

Yeah syntax seems to be [b]dead[/b]

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

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□ Posted: Thu Dec 26, 2013 12:59 am Post subject:

Anyone know what to do if a piece of trace came off the power pins? My -15v is shorting to ground, and I think that is the reason. I've taken exposed some of the copper underneath. Any other place I can attach power, or a way to cut this section off while still conditioning the power short after a few test runs, a while after changing R6 from 22k to 47k.



Joined: 10 Sep 2012
Last Visit: 06 Jan 2015

Posts: 273
Location: Brooklyn, NY

[Back to top](#)

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□ Posted: Thu Dec 26, 2013 3:40 am Post subject:

I took care of it using some section of the brick side which I haven't wired up, I just started the connection two pads later and severed any reverb works, though still a bit quiet, or I have to lower the audio significantly, or if I'm running it hotter, I can hear the signal in the verb and the wet/dry knob does nothing. Any particular op-amp associated with the LED, or is that particularly the 3904?

Happy holidays, and thanks for any help!

Joined: 10 Sep 2012
Last Visit: 06 Jan 2015

Posts: 273
Location: Brooklyn, NY

[Back to top](#)

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Stab Frenzy
Veteran Wiggle



Joined: 03 Mar 2010
Last Visit: 22 Jan 2015

Posts: 545
Location: Melbourne

[Back to top](#)

[Posted: Thu Dec 26, 2013 3:49 am](#) Post subject:

My two came together really quickly and easily, only thing I've noticed is that they tend to clip at a fairly low level. Maybe it's just because to push things pretty hard in my system, but I haven't had any similar problems with any other modules I've used in a similar position. Any edit: I'm talking clipping on the dry signal, not just the wet. Wet is adjusted for no clips via the trimpot.

Last edited by Stab Frenzy on Thu Dec 26, 2013 4:02 am; edited 1 time in total

Joined: 03 Mar 2010
Last Visit: 22 Jan 2015

Posts: 545
Location: Melbourne

[Back to top](#)

[Posted: Thu Dec 26, 2013 3:49 am](#) Post subject:

SpunRaddish wrote:

I took care of it using some section of the brick side which I haven't wired up, I just started the connection two pads later and severed any reverb works, though still a bit quiet, or I have to lower the audio significantly, or if I'm running it hotter, I can hear the signal in the verb its lit, and the wet/dry knob does nothing. Any particular op-amp associated with the LED, or is that particularly the 3904?

Happy holidays, and thanks for any help!



The LED and vactrol are controlled by the 3904, with R11 going to ground and the ends of R31, R33 and R10 providing the summed control to the LED never lights, then something is likely significantly wrong.

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

Have you checked the orientation of the vactrol? - I guess that would really confuse the circuit if it was the wrong way round.

The 'full wet' audio output can be slightly lower than 'full dry' but you can hear from the various audio demos how it should work.

<http://musicthing.co.uk/modular/>

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Tombola
Super Deluxe Wiggle



[Posted: Thu Dec 26, 2013 6:20 am](#) Post subject:

Stab Frenzy wrote:

I'm talking clipping on the dry signal, not just the wet. Wet is adjusted for no clips via the trimpot.

That's strange, I haven't seen that before.

On the schematic, you can see that the the dry signal goes through two unity op amp buffers and nothing else (IC1D and IC1B), so it's hard from. Check that R7, R8 and C1 are correct - they're the only other components that go near the clean path.

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

[Back to top](#)

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

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SpunRaddish
Wiggling with Experience



[Posted: Thu Dec 26, 2013 12:14 pm](#) Post subject:

Thanks for the response! No, the vactrol is the right way around, I know, because before I changed the resistor value of R11, the xfade and began when I was playing with really low impedance... is it possible that the vactrol burned out, and what are the symptoms? I checked the LED is constantly on, the pot still has normal resistance. I think I see what happened now, I have a spare 3904 lying on my bench (hmm I

Joined: 10 Sep 2012
Last Visit: 06 Jan 2015

Posts: 273
Location: Brooklyn, NY

[Back to top](#)

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objectgroup
Learning to Wiggle

Joined: 24 Jul 2013
Last Visit: 26 Dec 2014



[Posted: Thu Dec 26, 2013 12:16 pm](#) Post subject:

Not sure if this has been covered â€“ Anybody know where I can track down a technical drawing of the Accutronics 9EB2C1B? Making a part where to put the holes (I don't have the spring to take measurements yet). Might contact accutronics...

Posts: 14
Location: NYC

[Back to top](#)

woodster
Ultra Wiggle



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

Posts: 801
Location: UK

Posted: Thu Dec 26, 2013 12:34 pm Post subject:

@ objectgroup,
Is this any help ?

https://www.tube-town.net/ttstore/images/product_images/original_image_s/831_1.jpg

[Back to top](#)

objectgroup
Learning to Wiggle

Posted: Thu Dec 26, 2013 1:00 pm Post subject:

woodster wrote:

@ objectgroup,
Is this any help ?

Posts: 14
Location: NYC

Thanks woodster, but I'm looking for a dimensioned drawing of the mounting holes. Just sent them an email. Will post if I track it down.

[Back to top](#)

nihilist
Wiggling with Experience



Joined: 24 Jan 2011
Last Visit: 07 Jan 2015

Posts: 273
Location: USA

Posted: Thu Dec 26, 2013 1:10 pm Post subject:

Building this now.
Which parts in the kit are the 33nf caps, which are fuses?
Thanks.

www.nihilistrecords.net

[Back to top](#)

woodster
Ultra Wiggle



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

Posts: 801
Location: UK

Posted: Thu Dec 26, 2013 1:35 pm Post subject:

They should be labelled.
There is also a picture of them on the Thonk website -

<http://www.thonk.co.uk/shop/springreverbkit/>

Scroll down a bit.

[Back to top](#)

nihilist
Wiggling with Experience

Posted: Thu Dec 26, 2013 3:28 pm Post subject:

Ok got it. What function is "tilt" supposed to be performing?



Joined: 24 Jan 2011
Last Visit: 07 Jan 2015

Posts: 273
Location: USA

[Back to top](#)

www.nihilistrecords.net

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

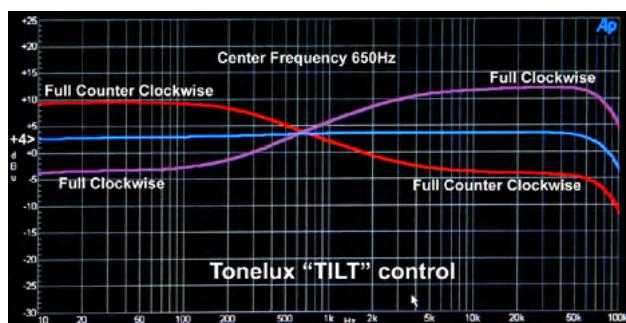
Posts: 8287
Location: Brighton, UK

Posted: Thu Dec 26, 2013 3:32 pm Post subject:

nihilist wrote:

Ok got it. What function is " tilt" supposed to be performing?

it's just a classic EQ tilt, this type of response (although not these actual values)



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[Back to top](#)

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

Posted: Thu Dec 26, 2013 4:24 pm Post subject:

Tilt EQ is only on the reverb send, not the dry part of the signal

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

Stab Frenzy
Veteran Wiggler



Joined: 03 Mar 2010
Last Visit: 22 Jan 2015

Posts: 545
Location: Melbourne

Posted: Thu Dec 26, 2013 4:49 pm Post subject:

Tombola wrote:

Stab Frenzy wrote:

I'm talking clipping on the dry signal, not just the wet. Wet is adjusted for no clips via the trimpot.

That's strange, I haven't seen that before.

On the schematic, you can see that the the dry signal goes through two unity op amp buffers and nothing else (IC1D and IC1B), : gain would be coming from. Check that R7, R8 and C1 are correct - they're the only other components that go near the clean pat

There's no gain, it just seems like there's less headroom than on say the intellijel unity mixer that is also part of my output chain. I'll do a t pinpoint exactly what the deal is, but yesterday I got around it just by lowering the level of my VCA.

SpunRaddish
Wiggling with Experience

Posted: Thu Dec 26, 2013 6:55 pm Post subject:

Either something was wrong with the 072, but the reverb sounds great now that I swapped it to a NE552, both cleaner and louder... I also the reverb goes wetter. The difference in sound from the 072 to the NE552 is like night and day. Big thanks to Tombola and Thonk!



Joined: 10 Sep 2012
Last Visit: 06 Jan 2015

Posts: 273
Location: Brooklyn, NY

[Back to top](#)

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Morpher
Common Wigglie

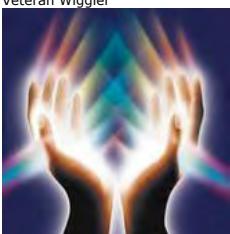
Joined: 10 Nov 2011
Last Visit: 30 Dec 2014

Posts: 52
Location: Netherlands

[Back to top](#)

[D](#) Posted: Thu Dec 26, 2013 7:36 pm Post subject:

Is there anyone who can build one for me 😊?
Im kinda intrigued by the spring reverb



Joined: 03 Mar 2010
Last Visit: 22 Jan 2015

Posts: 545
Location: Melbourne

[Back to top](#)

[D](#) Posted: Thu Dec 26, 2013 8:24 pm Post subject:

Morpher wrote:

Is there anyone who can build one for me 😊?
Im kinda intrigued by the spring reverb

It's a really easy build, I'd just try it yourself if I were you.



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

[D](#) Posted: Thu Dec 26, 2013 11:27 pm Post subject:

SpunRaddish wrote:

Either something was wrong with the 072, but the reverb sounds great now that I swapped it to a NE552, both cleaner and louder... I also sv now the reverb goes wetter. The difference in sound from the 072 to the NE552 is like night and day. Big thanks to Tombola and Thonk!

Is that the 072 in the brick circuit or the 072 in the spring drive/recovery circuit?

It was reported earlier that 5532 did not work well in the spring recovery (which is as expected, because the 5532 is designed for low impedance of the spring is pretty high. At higher impedances the current noise is more important than the voltage noise. The 5532 has bet 6nV max vs. 18nV) but vastly worse current noise (0.7 pA vs. 10 fA, or in other words 700fA vs. 10fA)).

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

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Joined: 10 Sep 2012
Last Visit: 06 Jan 2015

Posts: 273
Location: Brooklyn, NY

[Back to top](#)

[D](#) Posted: Fri Dec 27, 2013 2:13 am Post subject:

Actually it's for the spring drive. Maybe running on +/-15 might have something to do with it, and the fact that I'm operating a turn from 0 similar to the demos, still a HUGE discrepancy between dry and wet volume, but that's fine for now.



Joined: 29 May 2009

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Monobass
thonk.co.uk

[D](#) Posted: Fri Dec 27, 2013 3:59 am Post subject:

Morpher wrote:

Is there anyone who can build one for me 😊?
Im kinda intrigued by the spring reverb

Charles Kerr has built a few for people now, drop him a line - <http://loudestwarning.tumblr.com/ABOUT>

But it is an easy build.

Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

[Back to top](#)

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[!\[\]\(1e16f49ab13cd69668eb9a64d232e89c_img.jpg\)](#) [!\[\]\(11216fd932062d81d5227c43e9a69ceb_img.jpg\)](#) [!\[\]\(dd6b34d4984611831e3be70f826a17d4_img.jpg\)](#) [!\[\]\(f09a4ed368cdfa426d04da603d237a16_img.jpg\)](#) [!\[\]\(85510a0c18f206b13f7813ca3ad0eb41_img.jpg\)](#)

woodster
Ultra Wigglar



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

 Posts: 801
Location: UK

[Back to top](#)

[!\[\]\(171156d8c779a4176180902abd5ec531_img.jpg\)](#) [!\[\]\(3e05956a7720a681379e0abcef6b835d_img.jpg\)](#) [!\[\]\(27d6a05de69b5275bf9e40041c5916dd_img.jpg\)](#)

arneborgan
Learning to Wiggle

Joined: 03 May 2013
Last Visit: 04 Jan 2015

 Posts: 9
Location: Norway

[Back to top](#)

[!\[\]\(0971fe7291a9af8278432e5e6c729c64_img.jpg\)](#) [!\[\]\(5a2ebecb079793e328a5e26ec847b2a4_img.jpg\)](#) [!\[\]\(80fad096cfe76bccb2064bbbe581ee13_img.jpg\)](#)

arneborgan
Learning to Wiggle

Joined: 03 May 2013
Last Visit: 04 Jan 2015

 Posts: 9
Location: Norway

[Back to top](#)

[!\[\]\(87493af1cd64e21e50c8faccba46f0a2_img.jpg\)](#) [!\[\]\(7ebfa01b3b9023587ec86a9504c0db6b_img.jpg\)](#) [!\[\]\(0b3b0f83f29e173382bcd20294eec145_img.jpg\)](#)

horstronic
Ultra Wigglar



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015

 Posts: 756
Location: Germany

[!\[\]\(9068819355e8f7f5dd0e68e1666a3d20_img.jpg\)](#) [!\[\]\(9297155c68c4c42bb1a7234b1be69979_img.jpg\)](#) [!\[\]\(e4898d3d1616c1d1a4d3209099855a85_img.jpg\)](#) Post subject:

Monobass wrote:

Morpher wrote:

Is there anyone who can build one for me 😊?
Im kinda intrigued by the spring reverb

Charles Kerr has built a few for people now, drop him a line - <http://loudestwarning.tumblr.com/ABOUT>

But it is an easy build.

I could also do that. But yeah, it's easy!

WTB Doepper A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

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[!\[\]\(544b906ac7dfd6a2b39c1800b149c967_img.jpg\)](#) [!\[\]\(8ad9840ec2e07660bf38c52f61405dec_img.jpg\)](#) [!\[\]\(e0110a22da55c021d851ee472e59477f_img.jpg\)](#)

Tombola
Super Deluxe Wigglar



[!\[\]\(c0ae12a67de04f690ddef4b99c8e5a62_img.jpg\)](#) [!\[\]\(5fda7340dc0374659dad8133a8b3ca8e_img.jpg\)](#) [!\[\]\(229f7b38925fd13dc6b260bd872a2404_img.jpg\)](#) Post subject: Re: Switched the pots B50k and B10k

arneborgan wrote:

Hi. thank you for a great kit. Short question: I accidentally switched the pots B50K and B10K on the Spring Reverb pcb. I was just seeing this right now. Do I have to resolder and put them in the right position? Thank you. Arne PS. The kit seems to work.

Short answer: should be fine

Long answer: the 10K should work OK on the blend. The 50K will work on the tilt, but the boost/cut will be stronger than with a 10k, so the hear clipping, boost a little less!

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

<http://musicthing.co.uk/modular/>



Posts: 1322
Location: London, England

The Music Thing Module Generator®

[Back to top](#)

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Morpher
Common Wiggler

Joined: 10 Nov 2011
Last Visit: 30 Dec 2014



Posts: 52
Location: Netherlands

horstronic wrote:

Monobass wrote:

Morpher wrote:

Is there anyone who can build one for me 😊?
Im kinda intrigued by the spring reverb

Charles Kerr has built a few for people now, drop him a line - <http://loudestwarning.tumblr.com/ABOUT>

But it is an easy build.

I could also do that. But yeah, it's easy!

Ok thanks guys! I hope it really is easy, because I just bought a kit after reading this lol 😂

[Back to top](#)

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[Posted: Fri Dec 27, 2013 1:01 pm Post subject:](#)

Morpher wrote:

horstronic wrote:

Monobass wrote:

Morpher wrote:
Is there anyone who can build one for me 😊?
Im kinda intrigued by the spring reverb



Joined: 08 Aug 2013
Last Visit: 07 Jan 2015



Posts: 756
Location: Germany

Charles Kerr has built a few for people now, drop him a line - <http://loudestwarning.tumblr.com/ABOUT>

But it is an easy build.

I could also do that. But yeah, it's easy!

Ok thanks guys! I hope it really is easy, because I just bought a kit after reading this lol 😂

WTB Doepper A-148, Eurorack Quantizer, MN Echophon

Stuff for sale!

facebook

youtube

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[Posted: Fri Dec 27, 2013 11:09 pm Post subject:](#)

I just finished two builds. Excellent kit and documentation! Another slam dunk by you two.

My second build sounds great.

The first one seems to have some problems. The Tilt is unresponsive and the reverberation doesn't seem to go as Wet as it should. I've refi as to where to look for problems would be apreciated.

I should mention that I sent a DC signal into the XFade jack during testing. Would this have damaged any parts?



Joined: 20 Mar 2013
Last Visit: 04 Jan 2015

 Posts: 429
Location: South Carolina, US

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

 Posted: Sat Dec 28, 2013 3:01 am Post subject:

Makers did you see the bits in the build doc about modifying the jacks and also the care you need to take with the front panel RCAs?

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[Back to top](#)

makers
Wiggling with Experience



Joined: 20 Mar 2013
Last Visit: 04 Jan 2015

 Posts: 429
Location: South Carolina, US

[Back to top](#)

 Posted: Sat Dec 28, 2013 8:35 am Post subject:

Thanks, I did the jack mods and was careful about avoiding shorts with the RCA grounds. I'll replace the EQ IC and see where that gets me

snufkin
Veteran Wiggler



Joined: 04 Jan 2010
Last Visit: 08 Jan 2015

 Posts: 608

after a testing period I can't seem to dial out distortion with either the tank or brick it's quite subtle and fizzy but very much there

I did only take an hour to build so

I am going to check component values and replace the diodes just in case I fried one, without cheking are these in the audio path ?

everything else sounds great and works fine!

<http://videocircuits.blogspot.com/>

[Back to top](#)

woodster
Ultra Wiggler

 Posted: Sat Dec 28, 2013 12:14 pm Post subject:

I'm very very impressed with this kit.

Just built one up using the Medium Brick.

It really does sound fantastic!

Now need to decide if the second one will have a Short BTDR-2H (2.0s), or the Long (2.85s)...

Likewise, two flavours of Spring will be required.

One Big, One Small me thinks.

Also looking forward to the Expander Panels...



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

 Posts: 801
Location: UK

[Back to top](#)

makers
Wiggling with Experience



Joined: 20 Mar 2013
Last Visit: 04 Jan 2015

 Posts: 429
Location: South Carolina, US

[Back to top](#)

the83
Wiggling with Experience



Joined: 09 Mar 2011
Last Visit: 05 Jan 2015

 Posts: 332
Location: Chicago

    Posted: Mon Dec 30, 2013 12:45 am Post subject:

Just finished my first build yesterday. Loving this guy so far. Here's my first jam with it.



Theron Humiston
Spring Music

WET

Cookie policy

It's pretty noisy with a tank mounted inside of my case. I'm going to build two more for my other caseâ€”those two will get external tanks.

<https://soundcloud.com/theronhumiston>

WTB:
Pokey
Quadra

[Back to top](#)

jgb
Wiggling with Experience



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015

 Posts: 313
Location: GÃ¶teborg, Sweden

Monobass wrote:

jgb I recommend checking these two sections of the build manual, these can contribute to harmless short circuits that can have exactly the effect you're describing.
Section 14 - on page 7 - Modifying Jacks
Section 35 - on pages 16 & 17 - Isolating Front panel RCAs
<http://thonk.co.uk/documents/springreverb>

Problem found. Too eager person behind the soldering iron. I had only soldered one leg of the socket for the TL072 in the brick section... legs a bit to be able to solder those missing connections and voila, working perfectly! 😊

During the troubleshooting of this module, I built the second one I had ordered, which worked perfectly from the beginning. Having a work tracking down the problem with the first one.

Thank you guys for all help! 😊

Taking care of 99musik.se since 2002 | Dub techno/techno/acid | Misc/modular | Modular

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sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015

Posts: 7177

Location: Vortepexaion, TN, USA

[Back to top](#)

makers
Wiggling with Experience



Joined: 20 Mar 2013
Last Visit: 04 Jan 2015

Posts: 429
Location: South Carolina, US

[Back to top](#)

radiokoala
must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

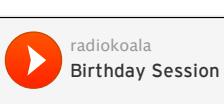
Posts: 1530

□ Posted: Fri Jan 03, 2014 4:15 pm Post subject:

While I don't have a brick yer, can I bypass it and use a module as an x-fader? If yes, do I need to wire anything?

Another thing, black capacitor next to a standoff touches exactly the two nearby resistors on another board. Is it okay? Can it short them?

And last, how do I position a thonkiconn jack? There's one leg more than holes.



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Soundcloud

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woodster

Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

 Posts: 801
Location: UK

[Back to top](#)

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Stab Frenzy
Veteran Wiggler



Joined: 03 Mar 2010
Last Visit: 22 Jan 2015

 Posts: 545
Location: Melbourne

[Back to top](#)

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radiokoala
must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

 Posts: 1530

[Posted: Sun Jan 05, 2014 5:47 am Post subject:](#)

When you look at the pcb like an actual module (pots atop, jacks at the bottom), where is signal and where is ground on jacks?



 radiokoala
Birthday Session



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Soundcloud

[Back to top](#)

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radiokoala

must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

 Posts: 1530

[Posted: Sun Jan 05, 2014 5:54 am Post subject:](#)

woodster wrote:

Do you mean the 10uf touching the 2x 100n's ?
Not near a standoff, so maybe you mean C2 ?

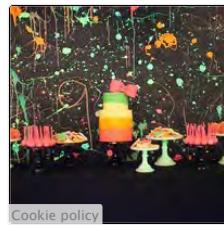
Page 15 of the Thonk doc's mention these situations -

http://thonk.co.uk/documents/springreverb/Spring_Reverb_v0.9.pdf

Either way, shouldn't be an issue.

I meant 68k and 100k resistors and 10 uf cap below. I resoldered it and went for a lower height capacitor, to avoid short circuit (of which tI least in my case).

Posts: 1530



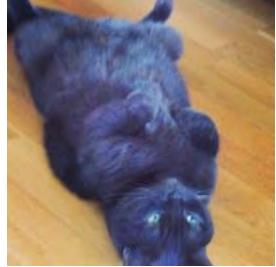
radiokoala
Birthday Session



/ Analog & modular videos /
Soundcloud

[Back to top](#)

Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

Posts: 596
Location: Sweden

Posted: Sun Jan 05, 2014 1:58 pm Post subject:

Just built my second. With the build docs it was super easy. Completed it in less than 2 hours. The hardest part was the RCA jacks (on the supposed to be used (I swapped them for slightly thicker ones).

A great experience, had a blast building it and been using it in patches a lot.

Hope to see more kits like these from Thonk in the future! Thanks to everyone involved!

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

[Back to top](#)

woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

Posts: 801
Location: UK

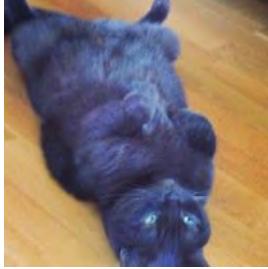
Posted: Sun Jan 05, 2014 2:21 pm Post subject:

Any Brick users using the Short BTDR-2H (2.0s), or the Long (2.85s) ?
Have a Spring built up with the Medium, but can't decide which way to go for the second build.
Any opinions either way ?

[Back to top](#)

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Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

 Posts: 596
Location: Sweden

[Back to top](#)

[Posted: Sun Jan 05, 2014 6:12 pm](#) Post subject:

I use a long brick, I never use short reverbs so can't really help you there (can't really see the point of a short reverb). What ever floats yo

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

[Back to top](#)

[Posted: Mon Jan 06, 2014 10:08 am](#) Post subject:

I have built mine and already used it on a track for my new LP
i'm in love with it hahahahaha

Joined: 28 Feb 2013
Last Visit: 18 Dec 2014

 Posts: 57

[Back to top](#)

[profile](#) | [pm](#)

Rick Burnett
Common Wiggler



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015

 Posts: 164

[Posted: Mon Jan 06, 2014 9:37 pm](#) Post subject: Custom mixer circuit for Brick/Tank...

So I finally got around to building my custom mixer instead of using a switch. I decided I really wanted to dial in each one as much as I was a lot of fun. Each reverb sound is so incredible different.

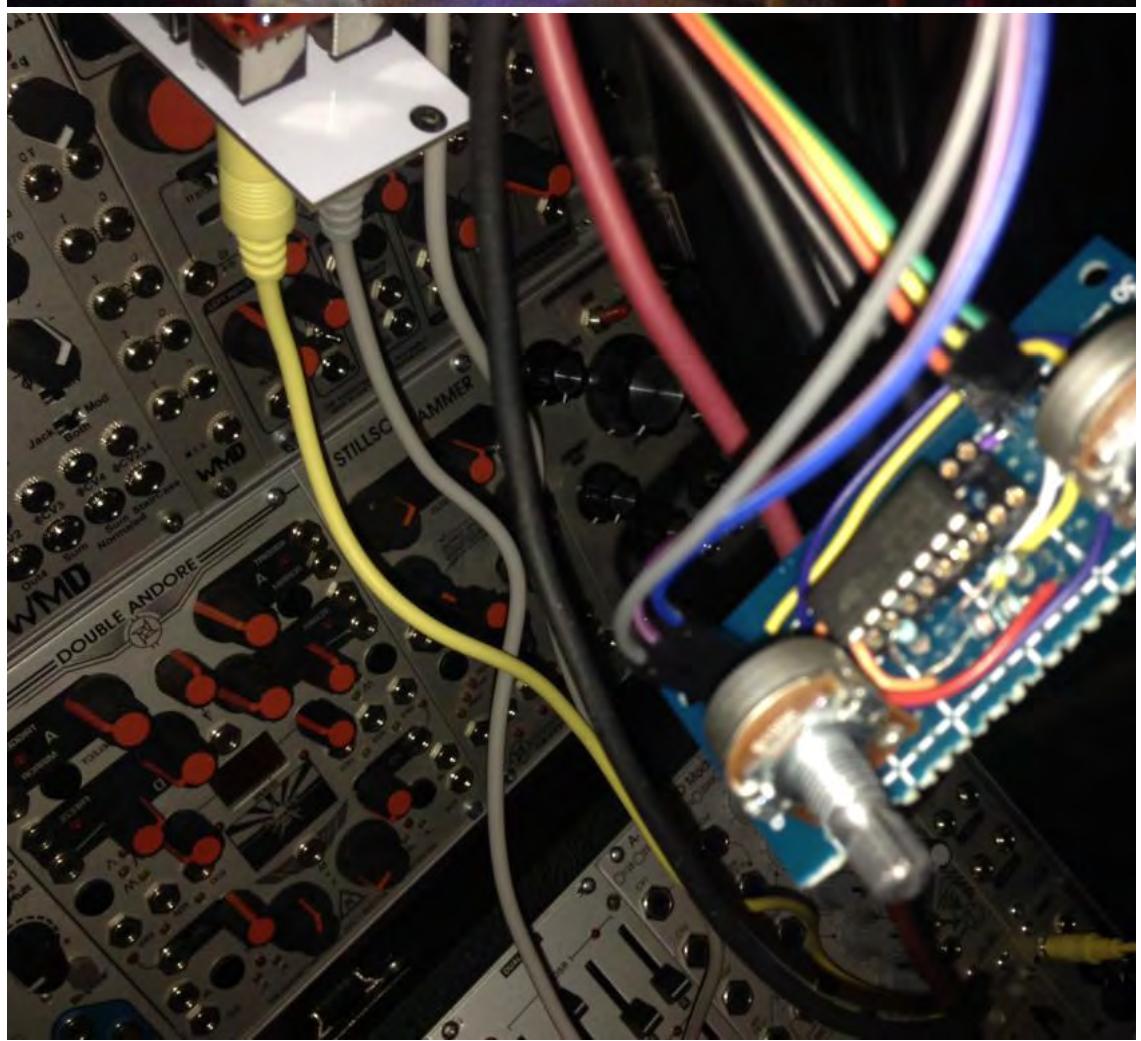
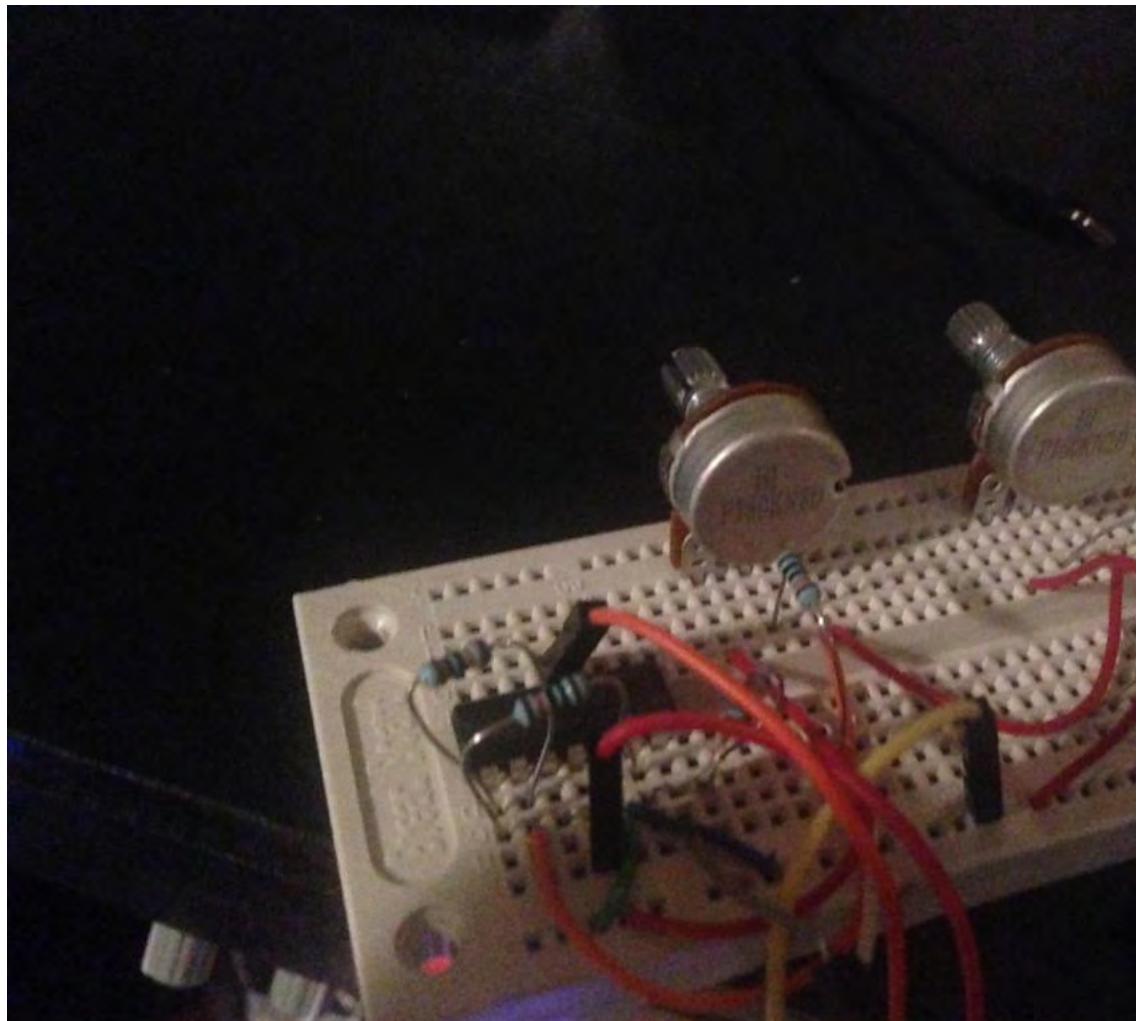
I started with this circuit:

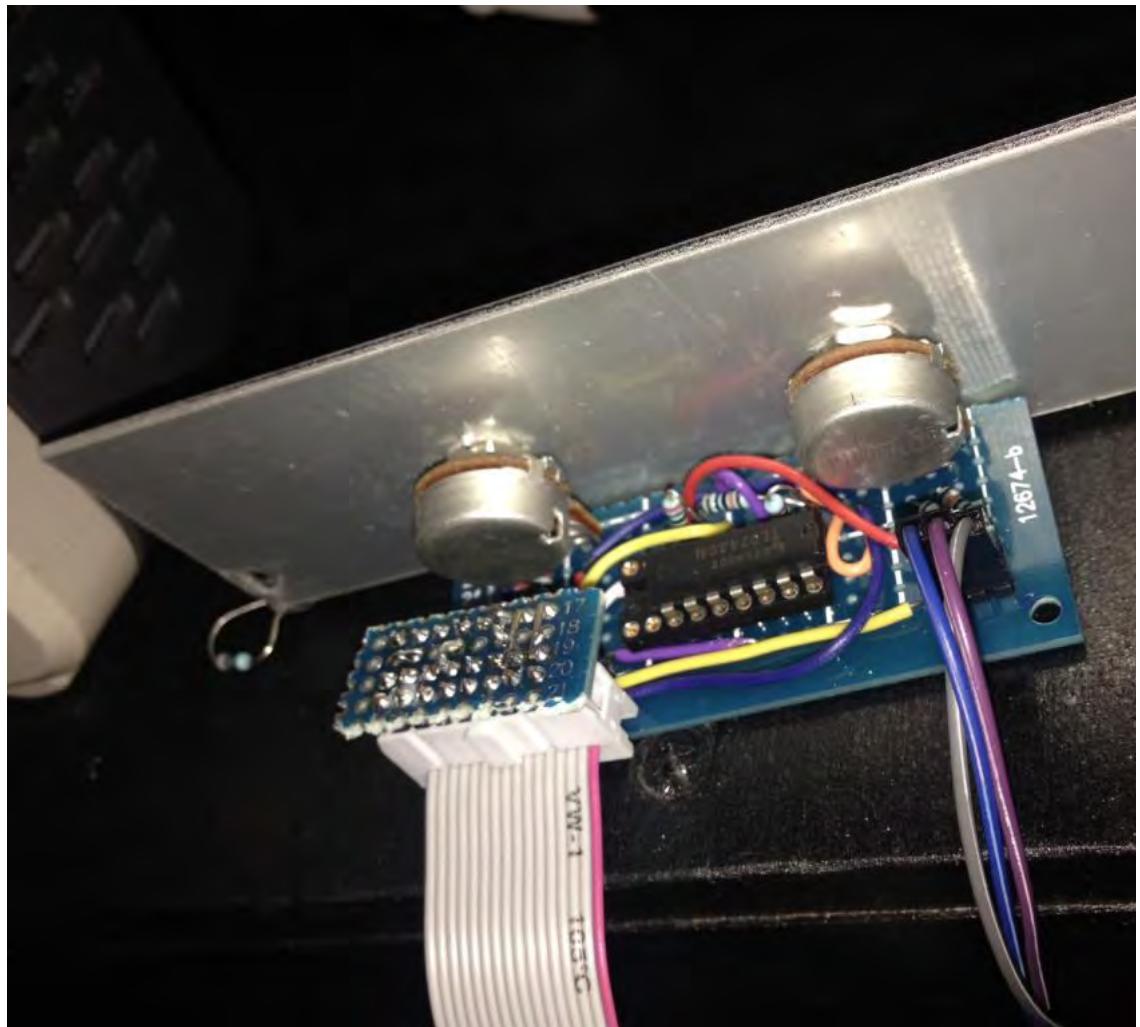
<http://privat.bahnhof.se/wb447909/dinsync/files/Simple%20DIY%20Eurorack%20Polarizing%20mixer.pdf>

From DinSync, simple polarizing mixer. I set the input resistance to 50K not 100K for the tank (R1), and left the brick at 100K. My pots were put R7 to 200K so I doubled my output gain (as I felt it was lower in perceptibility than the dry) and didn't use a switch, just hooked that inverting output.

While the gain is probably a bit higher than I wanted, I like the flexibility since I can adjust the gain of the brick/tanks independently now to

The circuit works great, so I built something I could put in the rack. Given it was just a quick experiment, might be fun to just build a board strange power connection is because I made the board too small and had to basically build a daughter board to hook up the power easier 😊





I also created a quick example of using it. The tilt is set to 12'oclock. I started with full dry, then just had each of the two reverbs maxed in (like a switch), but then I start having both on and start just adjusting each other a little bit here and there just to show the sonic changes. of the dry through but it's really quiet.

Edit: For the life of me I cannot figure out why the SoundCloud link is not working as it was in other posts.

[s]http://soundcloud.com/rick-burnett-1/reverb-test-mtm-with-custom[/s]

Very happy with it nevertheless!

Rick

[Back to top](#)

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falafelbiels
still learning to wiggle

Posted: Wed Jan 08, 2014 8:23 am Post subject:

Okay this may have been talked about earlier, but I just can't bring myself to reading 60 pages for it, sorry.

I ordered a couple of PCB sets but not the frontpanels because I enjoy doing those myself. Has anybody seen any .ai files or maybe an ove know the Turing Machine had this so I'm keeping my fingers crossed for not having to measure something I don't have...

Thanks,



Niels

Joined: 04 Aug 2009
Last Visit: 07 Jan 2015

Posts: 3552
Location: Rotterdamn son

[Back to top](#)

fluxmonkey
Super Deluxe Wiggler



Joined: 18 Oct 2008
Last Visit: 21 Jan 2015

Posts: 1554

□ Posted: Wed Jan 08, 2014 10:02 am Post subject:

i asked the same question a few weeks ago... there's a dimensional drawing of the panel in the build docs bundle on th website: http://mucontent/uploads/2013/10/Spring_2_1_Documentation_Bundle.zip

falafelbiels wrote:

Okay this may have been talked about earlier, but I just can't bring myself to reading 60 pages for it, sorry.

I ordered a couple of PCB sets but not the frontpanels because I enjoy doing those myself. Has anybody seen any .ai files or maybe an overpanel? I know the Turing Machine had this so I'm keeping my fingers crossed for not having to measure something I don't have...

Thanks,
Niels

www.fluxmonkey.com

please email (rather than PM) with any direct correspondence

[Back to top](#)

bloke_zero
Common Wiggler



Joined: 24 Jan 2012
Last Visit: 30 Dec 2014

Posts: 61
Location: London, UK

[Back to top](#)

□ Posted: Wed Jan 08, 2014 10:24 am Post subject:

Anyone have a 5U panel design they'd be willing to share?

http://soundcloud.com/bloke_zero

Joined: 10 Jan 2013
Last Visit: 03 Jan 2015

Posts: 70
Location: United Kingdom

□ Posted: Wed Jan 08, 2014 4:25 pm Post subject:

Picture file

I'm almost there, I know the LED goes last, but I've been staring at these 4 little fuckers on the right for about an hour and I can't figure out

Also what are the 4 bits above for?

This is my first DIY and its completely burnt me out



[Back to top](#)

Howes
Common Wiggler

Joined: 10 Jan 2013
Last Visit: 03 Jan 2015

Posts: 70
Location: United Kingdom

□ Posted: Wed Jan 08, 2014 4:30 pm Post subject:

Oh my god I just found the manual

[Back to top](#)

sduck

WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015



Posts: 7177
Location: Vortexpexagon, TN, USA

Posted: Wed Jan 08, 2014 4:32 pm Post subject:

bloke_zero wrote:

Anyone have a 5U panel design they'd be willing to share?

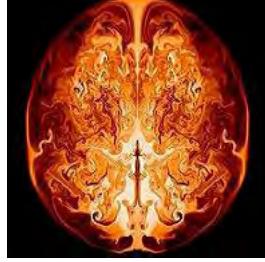
Do you want the one I posted a few pages back?

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

[Back to top](#)

woodster

Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015



Posts: 801
Location: UK

Posted: Wed Jan 08, 2014 4:35 pm Post subject:

Howes wrote:

Picture file

I'm almost there, I know the LED goes last, but I've been staring at these 4 little fuckers on the right for about an hour and I can't figure out

Also what are the 4 bits above for?

This is my first DIY and its completely burnt me out



I'm a bit scared by that shadow in your picture.

[Back to top](#)

Howes

Common Wiggler

Joined: 10 Jan 2013
Last Visit: 03 Jan 2015



Posts: 70
Location: United Kingdom

Posted: Wed Jan 08, 2014 4:52 pm Post subject:

I have no snips I'm a disgrace, I'm hanging up the iron for today I'm emotionally exhausted by this thing

[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

Posted: Wed Jan 08, 2014 5:01 pm Post subject:

They are the IC Sockets..

you'll really be wanting this... -> <http://thonk.co.uk/documents/springreverb>

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

Howes

Common Wiggler

Joined: 10 Jan 2013
Last Visit: 03 Jan 2015



Monobass wrote:

They are the IC Sockets..

you'll really be wanting this... -> <http://thonk.co.uk/documents/springreverb>

Posts: 70
Location: United Kingdom

Yeah thanks, can't believe:

- A- I got this far without it
B- How much of an idiot I am

[Back to top](#)

falafelbiels
still learning to wiggle



Joined: 04 Aug 2009
Last Visit: 07 Jan 2015

Posts: 3552
Location: Rotterdamm son

Posted: Wed Jan 08, 2014 11:42 pm Post subject:

fluxmonkey

Aah merci...

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Thu Jan 09, 2014 5:58 am Post subject:

Black PCB panels coming soon, along with white and alu panels for sale loose.



[Back to top](#)

Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

Posted: Thu Jan 09, 2014 7:26 am Post subject:

Howes wrote:

I have no snips I'm a disgrace, I'm hanging up the iron for today I'm emotionally exhausted by this thing

Don't give up, you just made one **BIG** but **EASILY FIXED** mistake.

You tried to do the whole thing **without the build instructions**. Even for an experienced builder, a quick glance would be wise in case there are, such as the earth tabs on the phono sockets, case connection, trimming the jacks).

For a beginner, you were setting yourself an *unreasonably hard task*. Suggest you chill for a bit, then read over the instructions step by step for each step that the components were put in the right place with (if needed) the right orientation.

Fix any mistakes you find, step by step. If in doubt post detailed pictures and people will help. You can do this.

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

Posts: 801
Location: UK

Posted: Thu Jan 09, 2014 9:05 am Post subject:

^what he said^

If your desperate, I have a few spare sets of snippy type pliers I can post you a set out if you don't have any.

[Back to top](#)

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radiokoala
must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

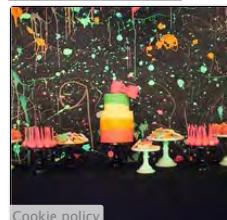
 Posts: 1530

Posted: Thu Jan 09, 2014 2:05 pm Post subject:

 I must admit the black panel looks ace! Also my bananas are rocking, because I bought the last (OKAY. except chip resistor, so I'm going to have a VC x-fader any day this week soon and even going to give it a use at next gig!.. 😊

Oh, and also did I mention I successfully got to work my very first DIY project today..?! 😊 (**hexinverter SympleSEQ**  )

With a reverb, x-fader, and sequencer my modular must be very happy about the beginning of this year.... viva le DIY!! 😊  



 **radiokoala**
Birthday Session



/ Analog & modular videos /
Soundcloud

[Back to top](#)

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patilon
Veteran Wiggler



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

 Posts: 590
Location: Germany

Posted: Fri Jan 10, 2014 3:21 pm Post subject:

finished the spring reverb and have some issues..

..btw. ... the white panel looks totally great!

i use a brick and spring reverb with a switch.

In both modes most of the wet/dry-thing is happening between 9-12 o'clock.
9 o'clock no reverb, 12 o'clock nearly full reverb. is that supposed to be that way?

the dry signal lacks high frequencies at the output.. it sounds like being low-passed, while a signal put into the x-fade input stays as it is.

i changed R6 22k for 47k.. got the spring signal a little bit louder. does this affect the brick as well?
didn't check before/after.

my akg spring reverb has 130 ohm input and 260 ohm output, the trimmer on the pcb doesn't affect the spring reverb out.
are there some reasonable modifications i could do to get the spring reverb louder?

www.myspace.com/reejklynur www.myspace.com/reejklynurmotionpictures

[Back to top](#)

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woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

 Posts: 801
Location: UK

Posted: Fri Jan 10, 2014 5:07 pm Post subject:

I'm sure the Spring and Brick drivers are both separate, as you can build it up to be either, or both.
A resistor change to one part shouldn't affect the other I don't think.

[Back to top](#)

[profile](#) [pm](#)

Rick Burnett
Common Wiggler

Posted: Fri Jan 10, 2014 5:22 pm Post subject:

patilon wrote:



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015



Posts: 164

finished the spring reverb and have some issues..

..btw. ... the white panel looks totally great!

i use a brick and spring reverb with a switch.

In both modes most of the wet/dry-thing is happening between 9-12 o'clock.

9 o'clock no reverb, 12 o'clock nearly full reverb. is that supposed to be that way?

the dry signal lacks high frequencies at the output.. it sounds like being low-passed, while a signal put into the x-fade input stays as it is.

i changed R6 22k for 47k.. got the spring signal a little bit louder. does this affect the brick as well?

didn't check before/after.

my akg spring reverb has 130 ohm input and 260 ohm output, the trimmer on the pcb doesn't affect the spring reverb out.

are there some reasonable modifications i could do to get the spring reverb louder?

I'd go back through and check every part to make sure you put the right ones in, including making sure you used the right potentiometer i found 2 resistors that I had swapped by accident (22R and 22K looked similar) and it was causing problems in just the tank side.

Also check where you have the TILT setting, this affects the sound of the verb.

[Back to top](#) [User profile](#) [Send pm](#)

Rick Burnett
Common Wiggle



Joined: 07 Nov 2012
Last Visit: 06 Jan 2015



Posts: 164

woodster wrote:

I'm sure the Spring and Brick drivers are both separate, as you can build it up to be either, or both.
A resistor change to one part shouldn't affect the other I don't think.

They do have common paths before and after, so in those circuits, you could have problems.

[Back to top](#) [User profile](#) [Send pm](#)

patilon
Veteran Wiggle



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015



Posts: 590
Location: Germany

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[Posted: Fri Jan 10, 2014 6:51 pm Post subject:](#)

checked everything again, also redid some solder joints just to be sure,
the alphas are on the right places.

somewhere i read, that the thing with the trimmer (not doing anything) could be caused by the wrong spring reverb?

apart from the (in comparison to the brick) quiet spring reverb,
everything works fine.. apart from the dry/wet-behaviour.. does yours
actuayll react linear (dry -> wet) over the whole way?
and the dull dry-signal at the output.. which doesn't get affected from the tilt.
only the reverb signal does get affected by it as it should ...
any voltages i could measure?
the source of this should be locatable?

www.myspace.com/reejklynur www.myspace.com/reejklynurmotionpictures

[Back to top](#) [User profile](#) [Send pm](#)

sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015



Posts: 7177
Location: Vortexexaion, TN, USA

[User profile](#) [Send pm](#)

[Posted: Sat Jan 11, 2014 12:17 am Post subject:](#)

The dead sounding output indicates some kind of problem... somewhere, don't know where to start. It should sound the same coming out ↗

And yes, it's going to be almost impossible to get a decent signal out of a tank that's that far off the specs for this unit. Can you get another higher impedance on both ends will really help a lot.

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

[Back to top](#)

Tombola
 Super Deluxe Wiggler

 Joined: 23 Jan 2011
 Last Visit: 22 Jan 2015

 Posts: 1322
 Location: London, England

□ Posted: Sat Jan 11, 2014 5:06 am Post subject:

patilon wrote:

i use a brick and spring reverb with a switch.
 In both modes most of the wet/dry-thing is happening between 9-12 o'clock.
 9 o'clock no reverb, 12 o'clock nearly full reverb. is that supposed to be that way?

Which vactrol have you used, and which value resistor did you put in R7?

R7 depends on the vactrol.

 Silonex 32SR3 = 470Ω

VTL5C3 = 47k

This kind of circuit won't have a perfectly smooth fade, but it should be smoother than you've described. Have you experimented with the x spring circuit completely? Put in a sine and a square from the same oscillator and see how the sweep works.

patilon wrote:

the dry signal lacks high frequencies at the output.. it sounds like being low-passed, while a signal put into the x-fade input stays as it is.

There's very little in the dry signal path: It goes through a unity buffer at IC1B, then through R7, past C1 and through another unity buffer

Makes me wonder if the grounding issue I mention below is messing the whole circuit up?

patilon wrote:

i changed R6 22k for 47k.. got the spring signal a little bit louder. does this affect the brick as well?

R6 will have no effect on the brick signal.

patilon wrote:

my akg spring reverb has 130 ohm input and 260 ohm output, the trimmer on the pcb doesn't affect the spring reverb out.
 are there some reasonable modifications i could do to get the spring reverb louder?

"Tested spring specs are:
 Input: 150Ω to 800Ω
 Output: $2,250\Omega$ to $2,575\Omega$
 Insulated input, Grounded output
 Beyond this range, you may need to do some research or experimentation."

You have three variables to consider - the drive circuit and the recover circuit, and the Tank grounding.

The trimmer means you can push the **drive circuit** as hard as you want, limited by the current output power of the TL072 (which is not huge), then something is fundamentally wrong - you should be able to push the spring into complete overdrive/distortion, then pull back

The **recover circuit** is designed for springs c 2.5k ohms. I don't understand the maths well enough to know how it would react to a coil 10x smaller output. However, the circuit is already amplifying by a factor of 1000, so I'm not sure how much further it can be pushed.

Tank grounding is also important. The tanks recommended for this have the input floating and the output grounded to the shell. That's why it has to have isolated sockets or a non-conductive PCB panel. If your tank has a different grounding scheme, that might have a big effect - I

It's possible that your tank is differently grounded and that's causing all of the issues - if you remove the tank, does the brick part work an' tank itself, not sure.

<http://musicthing.co.uk/modular/>

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[Back to top](#)

patilon
 Veteran Wiggler

 Joined: 25 Aug 2011
 Last Visit: 08 Jan 2015

 Posts: 590
 Location: Germany

□ Posted: Sat Jan 11, 2014 9:18 am Post subject:

thanks for the detailed answer tombola!

i ordered a full kit, so i didn't decide about the vactrol.
 i checked.. it's a VTL5C3 and the value with 47k is correct
 (which i checked directly at the pcb again)

Quote:

There's very little in the dry signal path: It goes through a unity buffer at IC1B, then through R7, past C1 and through another unity buffer IC

i checked the ic1-joints again, testwise swapped the TL-074 for a different one, measured R7 again. c1 is "102", don't know how to check

Quote:

Makes me wonder if the grounding issue I mention below is messing the whole circuit up?

i checked everything (dry/wet behaviour, dull-input) with the unconnected tank as well. it's exactly the same

Quote:

The trimmer means you can push the drive circuit as hard as you want, limited by the current output power of the TL072 (which is not huge)

okay, new findings here 

totally forgot my fender and vox guitar amplifiers, because they weren't used for years.. took out the two spring tanks (both have values seems i didn't get along with the trimmer so far.. i turned it about 15 times and finally i heard volume-changes.

these encouraged me to use the first tank again.. and voila.. i could get it much louder now  even if it's not within the recommended : disadvantages (noise, hum, volume) in comparison to the other two tanks, R6 is 47k at the moment.
so everything is perfect with that now.

wet/dry-behaviour.. maybe it's a subjective thing and i'm just too critical..

so i made some recordings..

u-lfo square-output, modulated by a d-lfo sinewave.

dry/wet at 12 o'clock and control fully clockwise.

Download dry-wet.mp3

u-lfo square vs. sine-output to demonstrate dry/wet behaviour again.

Download square vs. sine.mp3

and here to demonstrate the difference between normal "in" and "x-fade-in". same square-waveform multiplied into both.

Download square vs. square.mp3

so, the trimmer actually works fine (my fault).. the dry/wet-behaviour "might" be normal that way?

the thing with the dull-input stays. anything i could try/measure to locate

the mistake?

www.myspace.com/reejklynur www.myspace.com/reejklynurmotionpictures

Posted: Sat Jan 11, 2014 10:02 am Post subject:

I also noticed some low pass filtering of the dry signal, works fine otherwise tho. Haven't had the time to check it yet..

Back to top

kollo
Common Wiggler



Joined: 25 Nov 2009
Last Visit: 06 Jan 2015

   
Posts: 150
Location: GÄvle , Sweden

Back to top

Pdm1138
Common Wiggler



Joined: 24 Oct 2012
Last Visit: 01 Jan 2015

 
Posts: 226

Posted: Sat Jan 11, 2014 4:39 pm Post subject:

Any idea when the front mounted RCA panels will be available again (in white or aluminum)?

<https://soundcloud.com/pdm1138/billow>

<http://Bohm.Bandcamp.com>

<http://nebulotinklstab.bandcamp.com/track/fire-on-the-table>

Back to top

Jonachi
Veteran Wiggler

Posted: Mon Jan 13, 2014 6:40 am Post subject:

I have a question: Would it be possible to have the 2 reverbs in series, with a switch, Digital and then to spring?

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

Posts: 596
Location: Sweden

[Back to top](#)

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

Posted: Mon Jan 13, 2014 7:01 am Post subject:

Jonachi wrote:

I have a question: Would it be possible to have the 2 reverbs in series, with a switch, Digital and then to spring?

Here's the Schematic + the PCB layout is available in the eagle files.

To do this, you'd need to find the inputs and outputs of the two spring circuits.

Outputs are easy - they're at the jumper on the back.

Inputs are slightly harder. Both circuits are fed from the 'reverb_send' pin (pin 4) on the jumper that connects the front PCB with the back OUT' pad.

So you'd need to remove pin 4 and take a wire from the front board bringing the post-EQ 'send' signal to the back.

Then you'd need to cut the traces that connect pin 4 from R22 and pin3 of IC4.

Once you've separated them, you have everything you need:

- Send from the front board
- input to the spring
- input to the brick
- output from the spring
- output from the brick

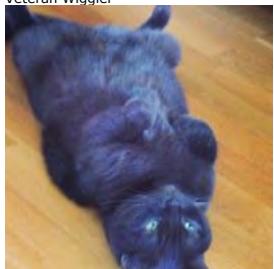
Finally, you'd need to arrange your parallel/serial switching - maybe start here: <http://www.beavisaudio.com/projects/Looper-Switcher/index.html>

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

Posts: 596
Location: Sweden

Posted: Mon Jan 13, 2014 7:02 am Post subject:

Thanks Tombola!

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

Posts: 596
Location: Sweden

patilon
Veteran Wiggler



Posted: Mon Jan 13, 2014 3:20 pm Post subject:

anyone having built the spring reverb listened to my samples and could tell if this is normal?

if it isn't - any ideas about further debugging? tombola?

www.myspace.com/reejklynur www.myspace.com/reejklynurmotionpictures

Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

Posts: 596
Location: Sweden

Posts: 590
Location: Germany

[Back to top](#)

djthopa
Super Deluxe Wigglie



Joined: 22 Mar 2012
Last Visit: 21 Jan 2015

Posts: 1026
Location: Somewhere between a nappy and a wire

[Back to top](#)

mrfang
Wiggling with Experience

Joined: 11 Nov 2010
Last Visit: 19 Dec 2014

Posts: 274
Location: Austin

[Back to top](#)

mrfang
Wiggling with Experience

Joined: 11 Nov 2010
Last Visit: 19 Dec 2014

Posts: 274
Location: Austin

Yes!

FS/T: Sequential Circuits MultiTrak, Whippiny RM-20 Rhythm Master (1965).
WTB/T: Aelita keys and slider caps, Koma Kommander, EML Electrocomp 200, Eurorack Benjolin, Intellijel Planar.

[Back to top](#)

objectgroup
Learning to Wiggle

Joined: 24 Jul 2013
Last Visit: 26 Dec 2014

Posts: 14
Location: NYC

[Back to top](#)

Flux302
Wiggling with Experience



Joined: 11 Jun 2013
Last Visit: 29 Dec 2014

Posts: 301
Location: Delaware (near Philly)

[Back to top](#)

makers
Wiggling with Experience

I just finished two of these.

One with accutronics tank and another with external spring. Both sounding ace.

Very well documented built....time for a tape Delay Tombola???

Thopa

Website: <http://www.djthopa.net>
Soundcloud: <http://soundcloud.com/djthopa>

Joined: 22 Mar 2012
Last Visit: 21 Jan 2015

Posts: 1026
Location: Somewhere between a nappy and a wire

[Back to top](#)

mrfang
Wiggling with Experience

Joined: 11 Nov 2010
Last Visit: 19 Dec 2014

Posts: 274
Location: Austin

[Back to top](#)

mrfang
Wiggling with Experience

Joined: 11 Nov 2010
Last Visit: 19 Dec 2014

Posts: 274
Location: Austin

My only suggestion is to add an ordering option for just the PCB and front panel, for those who like to source their own parts (and/or have

FS/T: Sequential Circuits MultiTrak, Whippiny RM-20 Rhythm Master (1965).

WTB/T: Aelita keys and slider caps, Koma Kommander, EML Electrocomp 200, Eurorack Benjolin, Intellijel Planar.

Black PCB panels coming soon, along with white and alu panels for sale loose.

Yes!

FS/T: Sequential Circuits MultiTrak, Whippiny RM-20 Rhythm Master (1965).

WTB/T: Aelita keys and slider caps, Koma Kommander, EML Electrocomp 200, Eurorack Benjolin, Intellijel Planar.

[Back to top](#)

objectgroup
Learning to Wiggle

Joined: 24 Jul 2013
Last Visit: 26 Dec 2014

Posts: 14
Location: NYC

[Back to top](#)

Flux302
Wiggling with Experience



Joined: 11 Jun 2013
Last Visit: 29 Dec 2014

Posts: 301
Location: Delaware (near Philly)

[Back to top](#)

makers
Wiggling with Experience

Using two of these in a live set tonight!



Joined: 20 Mar 2013
Last Visit: 04 Jan 2015

 Posts: 429
Location: South Carolina, US

[Back to top](#)

L.C.O.
Super Deluxe Wiggle



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

 Posts: 1253
Location: usa

 Posted: Sat Jan 18, 2014 4:44 pm Post subject:

objectgroup wrote:

Simple build and sounds great. Like a few others, I added the switch.
Here's a pic: <http://imgur.com/TMS4iei>

Lovely panel!
Where did you get it done?

/ / / w o r k / / /

[Back to top](#)

objectgroup
Learning to Wiggle

 Posted: Sat Jan 18, 2014 5:13 pm Post subject:

L.C.O. wrote:

Lovely panel!
Where did you get it done?

Front panel express. There's ample of room on the rear-RCA version to add switches or jacks above or below the PCBs.

L.C.O.
Super Deluxe Wiggle



Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

 Posts: 1253
Location: usa

[Back to top](#)

objectgroup
Learning to Wiggle

 Posted: Sat Jan 18, 2014 5:58 pm Post subject:

objectgroup wrote:

L.C.O. wrote:
Lovely panel!
Where did you get it done?

Front panel express. There's ample of room on the rear-RCA version to add switches or jacks above or below the PCBs.

That's cool. May i ask how much did this cost at FPE?

/ / / w o r k / / /

L.C.O.
Super Deluxe Wiggle

Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

 Posts: 1253
Location: usa

[Back to top](#)

objectgroup
Learning to Wiggle

 Posted: Sat Jan 18, 2014 9:48 pm Post subject:

L.C.O. wrote:

That's cool. May i ask how much did this cost at FPE?

\$36

L.C.O.
Super Deluxe Wiggle

Joined: 20 Jan 2013
Last Visit: 05 Jan 2015

 Posts: 1253
Location: usa

[Back to top](#)

L.C.O.
Super Deluxe Wiggle

 Posted: Sat Jan 18, 2014 11:06 pm Post subject:

objectgroup wrote:

L.C.O. wrote:

That's cool. May i ask how much did this cost at FPE?

\$36

Joined: 20 Jan 2013
Last Visit: 05 Jan 2015



Posts: 1253

Location: usa

[Back to top](#)

That is not bad at all!

thank you for the info, i will definitely look into this as an option.

/ / / w o r k / / /

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Tombola
Super Deluxe Wiggle



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322

Location: London, England

[Back to top](#)

makers wrote:

Using two of these in a live set tonight!

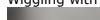
How did it go?

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011

Last Visit: 22 Jan 2015



Posts: 1322

Location: London, England

[profile](#) [pm](#)

makers
Wiggling with Experience



Joined: 20 Mar 2013
Last Visit: 04 Jan 2015



Posts: 429

Location: South Carolina, US

Tombola wrote:

makers wrote:

Using two of these in a live set tonight!

How did it go?

It very well, thank you. 45 minute improvised set was very well received with a small crowd quietly listening! Small venue in Savannah GA

<http://safeandsoundsav.blogspot.com>

One of us had a small spring tank in the bottom of a Bento Box. I had a large external tank sitting on my table beside pedals and mixer, etc. Wet and Dry. Loads of Fun.

Thanks again for an excellent DIY opportunity!

[Back to top](#)

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Tombola
Super Deluxe Wiggle



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322

Location: London, England

makers wrote:

Tombola wrote:

makers wrote:

Using two of these in a live set tonight!

How did it go?

It very well, thank you. 45 minute improvised set was very well received with a small crowd quietly listening! Small venue in Savannah GA

<http://safeandsoundsav.blogspot.com>

One of us had a small spring tank in the bottom of a Bento Box. I had a large external tank sitting on my table beside pedals and a joystick to mix Wet and Dry. Loads of Fun.

Thanks again for an excellent DIY opportunity!

Good to know it worked OK in a live environment - I've never tested it beyond turning up the speakers a bit in my workshop/shed. That little documentation - two little blue springs in a hammond box - is completely un-isolated so feeds back at the first possible opportunity, but the

<http://musicthing.co.uk/modular/>

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[Back to top](#)

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patilon
Veteran Wiggle

Posted: Sun Jan 19, 2014 10:40 am Post subject:

referring to my earlier post regarding building problems..



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015



Posts: 590

Location: Germany

the tank problem has been solved.. my akg tank (130 ohm input and 260 ohm output) works fine.
unfortunately the tank of my fender deluxe reverb turned out to sound much more interesting..

i wasn't sure if the wet-dry behaviour is normal that way.
uploaded the files on soundcloud now, to make it easier for other builders
to listen and tell me, if your spring reverb behaves the same.

first: square-output, modulated by a sinewave. dry/wet at 12 o'clock and control fully clockwise.

<https://soundcloud.com/patilon/spring-reverb>

second: square vs. sine-output to demonstrate dry/wet behaviour again.

<https://soundcloud.com/patilon/spring-reverb-1>

and i had some problems about the input-signal getting dull at the output
(only with the normal input, not with the x-fade-input).
so i took the same square-waveform multiplied into both, modulated by the same sine:

<https://soundcloud.com/patilon/spring-reverb-2>

i suppose, this shoud definitely not be that way. any hints how to fix this?

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[Back to top](#)

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sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015



Posts: 7177

Location: Vortexexaption, TN, USA

It's really hard to tell what's happening when you feed the thing a static square wave like that. The reverb signal probably shouldn't be darl
hard to tell which is the reverbed signal.

Also, soundcloud embedding - paste the url of your soundcloud track into the message box, delete the s after http, then put [s] [/s] at eith-

patilon
Spring Reverb Nr.1 dry vs. wet

Cookie policy

[Back to top](#)

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc
flickr cloud of sound touyube

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Tombola
Super Deluxe Wiggle



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322

Location: London, England

OK Patilon, I have listened to your sounds and made you some in return: <https://soundcloud.com/musicthing/sets/demos-for-patilon>

Re: Dry VS Wet.

I've recreated this patch on my system for you (square out from DPO, into IN, OUT to the mixer, sine from Dixie into CV, main knob at 12 o'

MusicThing
Square output modulated w/sine

Cookie policy

That sounds how I'd expect it to sound - It's not a very musical way to use the module - if you put an unfiltered square wave through a spr
dull/fuzzy sound from the wet version. If there isn't any space in the sound to hear the reverb, you won't hear any reverb.

There is a whole section on this in the Spring Reverb Documentation on page 2, because I found the sound was only useful when you use it
easy to coax such smooth tones from a spring reverb. Don't assume there is a fault with your module if you don't immediately get
few times on breadboard. Here've learned about getting a good, rich, warm, clean sound..."

In contrast, this is the same spring, the same modules, just taking the Sine out from the DPO, sequencing it with a Turing Machine and tur

MusicThing
Sine wave sequence, smaller modulation

Cookie policy

Re: Square vs Square. My system doesn't sound like that.

This is what mine sounds like:

Loading Soundcloud...

1st part = square with sinewave modulation between wet & dry (as above)

2nd part = square wave muted into X-Fade input - as you can hear, it sounds like a steady square wave output, you can't hear the modula

3rd part = I unplug the x-fade again, so it's the same as 1

4th part = X-fade connected to another oscillator, so you can hear the crossfading working.

I'm not sure what would be causing the dullness on the x-fade on your unit - check the components around the vactrol on the schematic?

<http://musicthing.co.uk/modular/>

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[Back to top](#)

julien
Wiggling with Experience



Joined: 04 Mar 2010
Last Visit: 06 Jan 2015

Posts: 271
Location: France

[Back to top](#)

patilon
Veteran Wiggler



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

Posts: 590
Location: Germany

Posted: Mon Jan 20, 2014 9:30 am Post subject:

i should have explained the purpose of the samples better.

in both examples (dry/wet and square/sine) i only wanted to show the characteristic of a sine-modulated fade because i thought the fading like.

so it wasn't about the reverb itself at all. of course demonstrating the reverb-"sound" in any kind the dry/wet-sample would have totally!

thanks for the samples tombola!

Quote:

If there isn't any space in the sound to hear the reverb, you won't hear any reverb.

yes of course. after listening to your first and third sample i think the fading characteristic in my build is as it is supposed to be in this circu the only issue left is the dullness..

Quote:

I'm not sure what would be causing the dullness on the x-fade on your unit - check the components around the vactrol on the schematic?

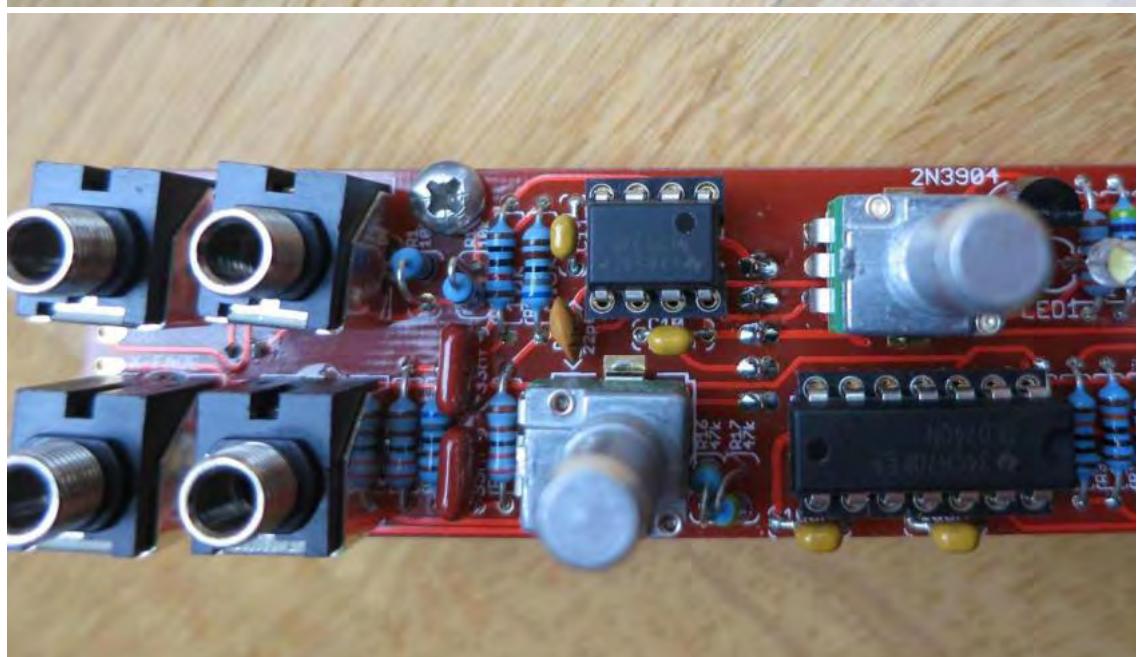
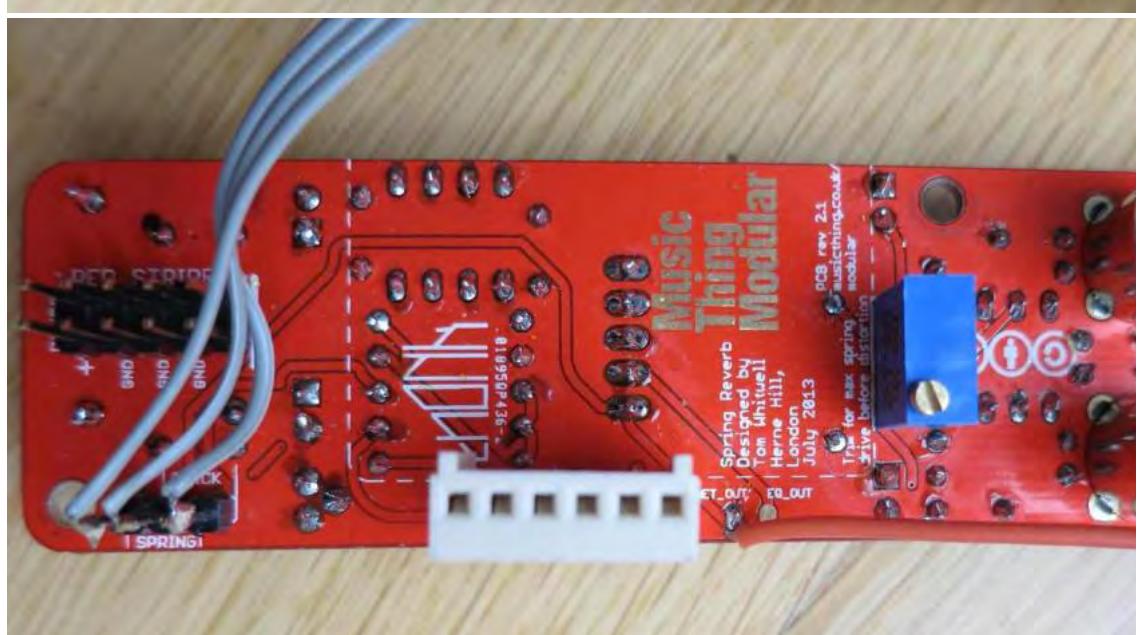
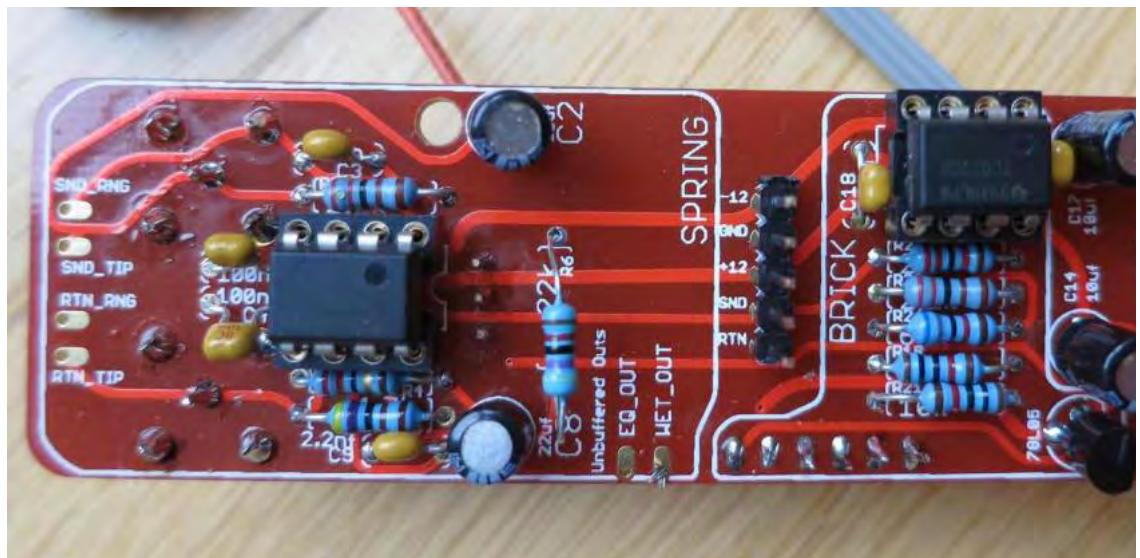
the dullness comes from the normal input. the x-fade input-signal sounds exactly the same at the output, so that's fine.
what could i try in this case? i checked the components again.

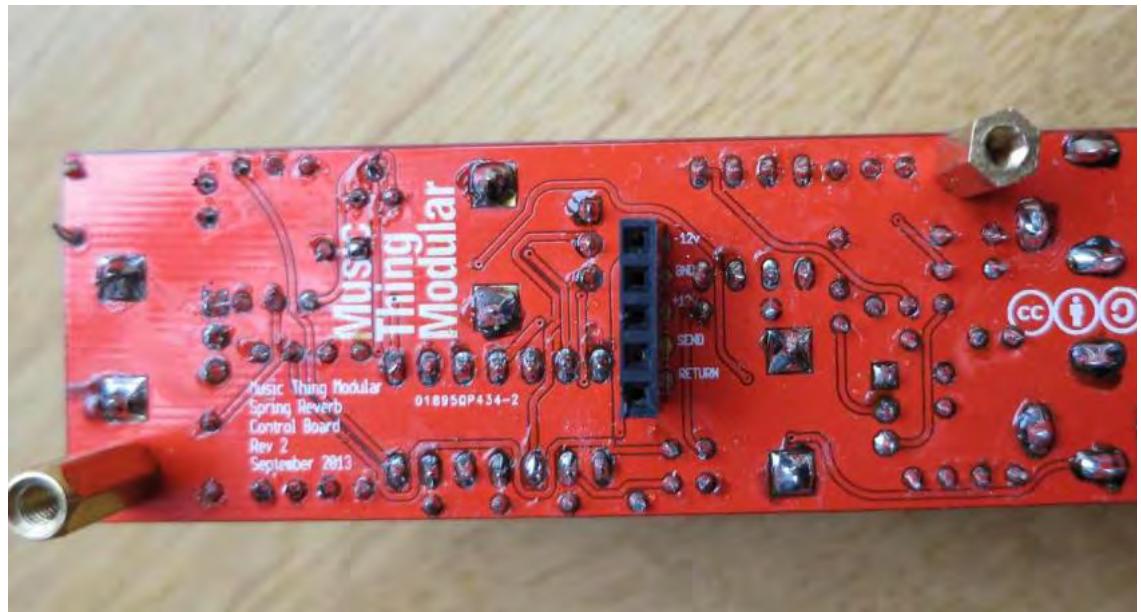
so just by looking at it i can't find any mistake (however .. i attached pictures in case i'm blind). is there something i could measure wit

Quote:

The reverb signal probably shouldn't be dark like it sounds like it might be

although the tilt eq is working fine.. it might be possible, that the signal is already dull before it gets processed, so the reverb-signal might





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[Back to top](#)

Tombola
Super Deluxe Wiggle



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

Posted: Mon Jan 20, 2014 11:10 am Post subject:

julien wrote:

Hi,
I've finished the reverb who works with a brick.
I need to know if the calibration procedure is necessary if i only use the brick?
I've tried to turn the trimpot but i didn't hear any change!
I've also noticed a volume drop when the reverb is fully wet. Is it normal?

Calibration has no effect on the brick. If you're only using the brick, you didn't need to build the part with the trimpot at all!

Fully-reverbed does usually sound quieter than fully dry, yes.

<http://musicthing.co.uk/modular/>

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[Back to top](#)

flocked
Common Wiggle

Joined: 05 May 2013
Last Visit: 27 Dec 2014

Posts: 155

Posted: Tue Jan 21, 2014 5:55 am Post subject:

Did anyone tried the 8EB2C1B? How is it sounding compared to the 9EB2C1B?

[Back to top](#)

Tombola
Super Deluxe Wiggle

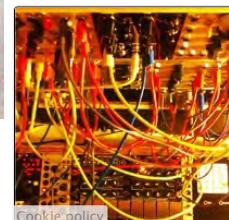
Posted: Tue Jan 21, 2014 6:18 am Post subject:

flocked wrote:

Did anyone tried the 8EB2C1B? How is it sounding compared to the 9EB2C1B?



Here's a direct comparison between the two; 9 first, then 8. I didn't recalibrate the unit between them - so you could almost certainly push turned the blend up a little for the 8.



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

<http://musicthing.co.uk/modular/>

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[Back to top](#)

patilon
Veteran Wiggler



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015



Posts: 590
Location: Germany

Posted: Tue Jan 21, 2014 1:51 pm Post subject:

bug-update ...

Quote:

There's very little in the dry signal path: It goes through a unity buffer at IC1B, then through R7, past C1 and through another unity buffer IC

after **IC1B** at the "entry"-leg of **R7** the signal still sounds exactly as the source-waveform. on the other side of the **R7** it's much quieter (and a little bit more dull and sounds exactly the same as at the input of **IC1D**.

then at the output of **IC1D** it's loud again and much more dull and sounds exactly the same as at the output of the module.
so.. the dullness "happens" a little bit within R7 (also changed to resistor to be sure there's nothing wrong with it) and most of it within IC1D (i changed the TL074 for a different one.. stays the same).
that's the furthest i get on my own (the tank has not been connected while testing)



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[Back to top](#)

kollo
Common Wiggler



Joined: 25 Nov 2009
Last Visit: 06 Jan 2015



Posts: 150
Location: Gävle, Sweden

Posted: Tue Jan 21, 2014 4:39 pm Post subject:

Try to desolder one leg of C1. C1 and R7 form a low pass filter, that is what was causing the high frequency roll off. Had the same problem, lowering the cap value a bit for now..

Last edited by kollo on Wed Jan 22, 2014 1:46 am; edited 1 time in total

[Back to top](#)

Stab Frenzy
Veteran Wiggler

Posted: Wed Jan 22, 2014 1:16 am Post subject:

flocked wrote:

Did anyone tried the 8EB2C1B? How is it sounding compared to the 9EB2C1B?

I made two with the 8, they're both sounding very good to me.



Joined: 03 Mar 2010
Last Visit: 22 Jan 2015

Posts: 545
Location: Melbourne

[Back to top](#)

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Posted: Wed Jan 22, 2014 7:48 am Post subject:

Quote:

Try to desolder one leg of C1. C1 and R7 form a low pass filter, that is what was causing the high frequency roll off.
Had the same problem, and this solved it. Thinking about just lowering the cap value a bit for now..



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

Posts: 590
Location: Germany

thanks a lot!

as you told .. i desoldered one leg.. high frequency roll of is gone,
then i replaced C1 with a 22pf capacitor, which i had lying around (0.000022uF instead of 0.001uF), works as well.
having no idea about circuits and especially capacitors i ask myself what the actual task of C1 is here?

this wasn't the best diy-experience so far after having realized the roll of bug came with the kit itself.
but i'm really grateful for your tip! having a half working module lying around is quite frustrating

so, everything's fine now and i can start experimenting with tanks and bricks.

first impressions: the belton bricks give kind of a chorus to the signal when holding a note
using bricks i have at least to amplify the wet-signal to be able to get a decent feedback,
but it works nicely with the big spring tank.

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[Back to top](#)

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Posted: Wed Jan 22, 2014 8:35 am Post subject:

patilon wrote:

this wasn't the best diy-experience so far after having realized the roll of bug came with the kit itself.



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

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Posted: Wed Jan 22, 2014 9:24 am Post subject:

Low pass filtering of the dry output signal. I noticed this immediately when I tested my builds. I just sent some tracks from Spotify through
pass filtered a bit compared to the original sound.

Taking care of 99musik.se since 2002 | Dub techno/techno/acid | Misc/modular | Modular



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015

Posts: 313
Location: Göteborg, Sweden

[Back to top](#)

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Posted: Wed Jan 22, 2014 11:23 am Post subject:

patilon wrote:

this wasn't the best diy-experience so far after having realized the roll of bug came with the kit itself.



Any bug (or design compromise) is in my design, not in Thonk's kits, and I'm very sorry that you haven't enjoyed this project.

That fragment of the circuit is also used in the x-fade in the Buchla music easel (and before that in vactrol application notes, I believe).

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

The easel circuit has a 4.7k R7 and a 910pf C1, which gives a cutoff of 37khz



Posts: 1322
Location: London, England

I raised R7 to 47k for VTL5C3 vactrols, which experimentally made the x-fade smoother, but I didn't think to raise C1. That means the circuit problem you are hearing.

With a Silonex Vactrol, you'll have 470R in R7 and .001uf in C1 = cutoff at 338khz, which would not be audible.

I just snipped off one leg of C1 in one of my modules with a VTL5C (you can do it without even disassembling the module), and it improves both types of vactrols, and hadn't noticed the issue myself while testing (I spend a long time test these circuits but don't catch everything).

Maybe that fixes the problem completely, or maybe it will have some other unforeseen impact on the X-fader performance.

If you wanted to replace C1, the calculations suggest a value of 100pf - I don't know if that would make any difference compared to removing it.

Looks like removing C1 might a good change that I'll consider for a rev3 of the board, or you could incorporate it yourself if you want to do so. CC License - the design files are all on my site.

<http://musicthing.co.uk/modular/>

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[Back to top](#)

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patilon
Veteran Wiggler



Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

Posts: 590
Location: Germany

[Back to top](#)

□ Posted: Wed Jan 22, 2014 11:42 am Post subject:

thanks tombola!

i think the information about the lowpass-thing is very important for future builders of this project and should be within the documentation. i wouldn't have had any problem with trying different c1 values or simply cutting the leg if i would have known earlier about it, but when i think, i must have done something wrong while soldering.. of course it's quite a hassle to find a mistake within my work which as well.

i will write again when i notice any negative aspects of the 22pf value, but so far everything sounds fine and the original signal keeps its frequency.

apart from the building problems i really can't complain about this module at all!

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kollo
Common Wiggler



Joined: 25 Nov 2009
Last Visit: 06 Jan 2015

Posts: 150
Location: Gävle, Sweden

□ Posted: Wed Jan 22, 2014 11:55 am Post subject:

I think it was a very smooth build and the kit was very well put together! It was just this cap 😊 Noticed the low cut of frequency caused by it. Luckily it is an easy fix!

[Back to top](#)

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

□ Posted: Wed Jan 22, 2014 11:56 am Post subject:

patilon wrote:

thanks tombola!

i think the information about the lowpass-thing is very important for future builders of this project and should be within the documentation.

Just so you understand, I didn't know about it until 4:20pm today when I was writing the post and looking again at the Easel schematics.

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[Back to top](#)

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patilon
Veteran Wiggler

□ Posted: Wed Jan 22, 2014 12:14 pm Post subject:

Quote:



I didn't know about it until 4:20pm today

haha, okay! i guessed something like that ,) i think i was just very surprised that there weren't more builders who made this observation or wrote about it.

Quote:

when I looked at the schematic, luckily it is an easy fix!

Joined: 25 Aug 2011
Last Visit: 08 Jan 2015

Posts: 590
Location: Germany

[Back to top](#)

i really wish i could say the same about me after looking into schematics 😊

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Posted: Wed Jan 22, 2014 1:00 pm Post subject:

Just wanted to say that I get exactly (if not more than) what I expect from a Spring Reverb (or DSP Brick) with this kit.

It's significantly more defined than most.

YMMV, but there is an inherent tone coloration in my experience of using any Spring Reverb unit, over many years, both in the studio, or on the road. It's what I would expect, and part of the reason they work in the fabulous way they do.

If I wanted pristine audio fidelity, I wouldn't seek it via a Spring Reverb. I'd look at a DSP based Room/Hall algorithm from something like an Eventide unit.



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

Posts: 801
Location: UK

[Back to top](#)

Posted: Thu Jan 23, 2014 6:10 am Post subject:

Tombola wrote:

you could incorporate it yourself if you want to design/release an updated version under the CC License - the design files are all on my site.

Which is awesome, by the way. 😊

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

Posted: Thu Jan 23, 2014 6:23 am Post subject:

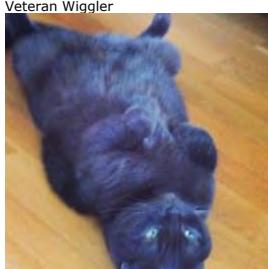
woodster wrote:

Just wanted to say that I get exactly (if not more than) what I expect from a Spring Reverb (or DSP Brick) with this kit.

It's significantly more defined than most.

+1

I'm allergic to nuts!



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015

Posts: 596
Location: Sweden

[Back to top](#)

Posted: Thu Jan 23, 2014 6:43 am Post subject:

I agree, I like the sound as is, but may experiment with the board in the future too - it is DIY and I generally regard any PCB as just the start.

the bad producer
Super Deluxe Wiggler



project to my specific needs...

I really think it's top stuff, certainly better than - for example - the original Serge paperface spring reverb! ☺

Joined: 17 Mar 2009
Last Visit: 03 Jan 2015



Posts: 1444

Location: Crackney

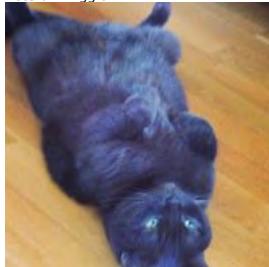


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<http://loudestwarning.tumblr.com/>

[Back to top](#)

Jonachi
Veteran Wiggler



Joined: 22 Jul 2013
Last Visit: 22 Jan 2015



Posts: 596
Location: Sweden

Posted: Thu Jan 23, 2014 8:59 am Post subject:

nice! Was wondering when these would show up with serge panels.

I'm allergic to nuts!

<http://vamusic.bandcamp.com/>
<http://soundcloud.com/vikingsade>
<http://soundcloud.com/jonachi-1>

[Back to top](#)

Dogue
Common Wiggler

Joined: 04 May 2012
Last Visit: 06 Jan 2015



Posts: 221

Posted: Thu Jan 23, 2014 11:50 am Post subject:

Not sure if this has been answered in the 66 pages, but:

Can anyone suggest either a US source for the kit or a PCB manufacturer? Thonk is out of stock of the RCA jack front panel kit, and an adm Park's DRC turned up a bunch of errors.

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Thu Jan 23, 2014 12:00 pm Post subject:

The Front RCA panel kit is back in stock next week as well as loose Front RCA panels.

[Thonk - Modular Synth DIY + Eurorack Accessories Store](#)

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

Posted: Thu Jan 23, 2014 12:05 pm Post subject:

Dogue wrote:

Not sure if this has been answered in the 66 pages, but:

Can anyone suggest either a US source for the kit or a PCB manufacturer? Thonk is out of stock of the RCA jack front panel kit, and an admit OSH Park's DRC turned up a bunch of errors.

Yes, you wouldn't be able to do it in OSH Park because he can't do plated slots - and all the jack sockets plated slots. Also, the Gerbers are seems to choke their (very cool otherwise) online system.

You can order the whole set from Seeedstudio (where I get them, and I think where Thonk gets his done) - the last set of prototypes I ordered types of panels = \$130 inc shipping. Just remember to tell them NOT to put their serial number in the top silkscreen layer on the panels.

<http://musicthing.co.uk/modular/>

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[Back to top](#)

Dogue
Common Wiggler

Joined: 04 May 2012
Last Visit: 06 Jan 2015

Posts: 221

Posted: Thu Jan 23, 2014 12:28 pm Post subject:

Thanks. I just noticed that Thonk sells the PCBs apart from the kit, so I think I'll order those and make my own panel.

[Back to top](#)

Flux302
Wiggling with Experience



Joined: 11 Jun 2013
Last Visit: 29 Dec 2014

Posts: 301
Location: Delaware (near Philly)

[Back to top](#)

Posted: Sun Jan 26, 2014 10:28 am Post subject:

I just did a fairly detailed video on the spring reverb, but haven't made it public yet. now I am going to snip a leg on C1 and see what chan laying around right now and the wife took the car today. I am gonna do another short video with the snipped leg and see if I can find any is

need to put the other cap value on? regardless I love the module. even with a slight roll off it is still excellent. really pleased with it.
edit..

Ok so I clipped one leg of the c1 cap. and the sound opened up. I am toying with crossfade now, no ugly side effects noticed. toying with di noticed... So unless someone can mention a good reason to place a new cap with a different value in there, I see no reason to have the C1

module is AWESOME. I will shoot a new spring reverb video (besides I just got a new camera) showing it in all its glory now

Flux302
Wiggling with Experience



Posted: Sun Jan 26, 2014 2:32 pm Post subject:

here is a lil video of me running the volca beats through the modular and everything through the spring reverb. (post cutting the C1 cap 😊
not sure to embed on here :(the video button didn't work when I wrapped it.

<http://www.youtube.com/watch?v=gwlqId-ipNE>

Joined: 11 Jun 2013
Last Visit: 29 Dec 2014

 Posts: 301
Location: Delaware (near Philly)

[Back to top](#)

[!\[\]\(702b0678a2544b22c6e8cc49ed601dc4_img.jpg\) reply](#) | [!\[\]\(889717454c1ff7eb492946b7452fad38_img.jpg\) profile](#) | [!\[\]\(f9379bd1e4473701600b39b17226e176_img.jpg\) pm](#)

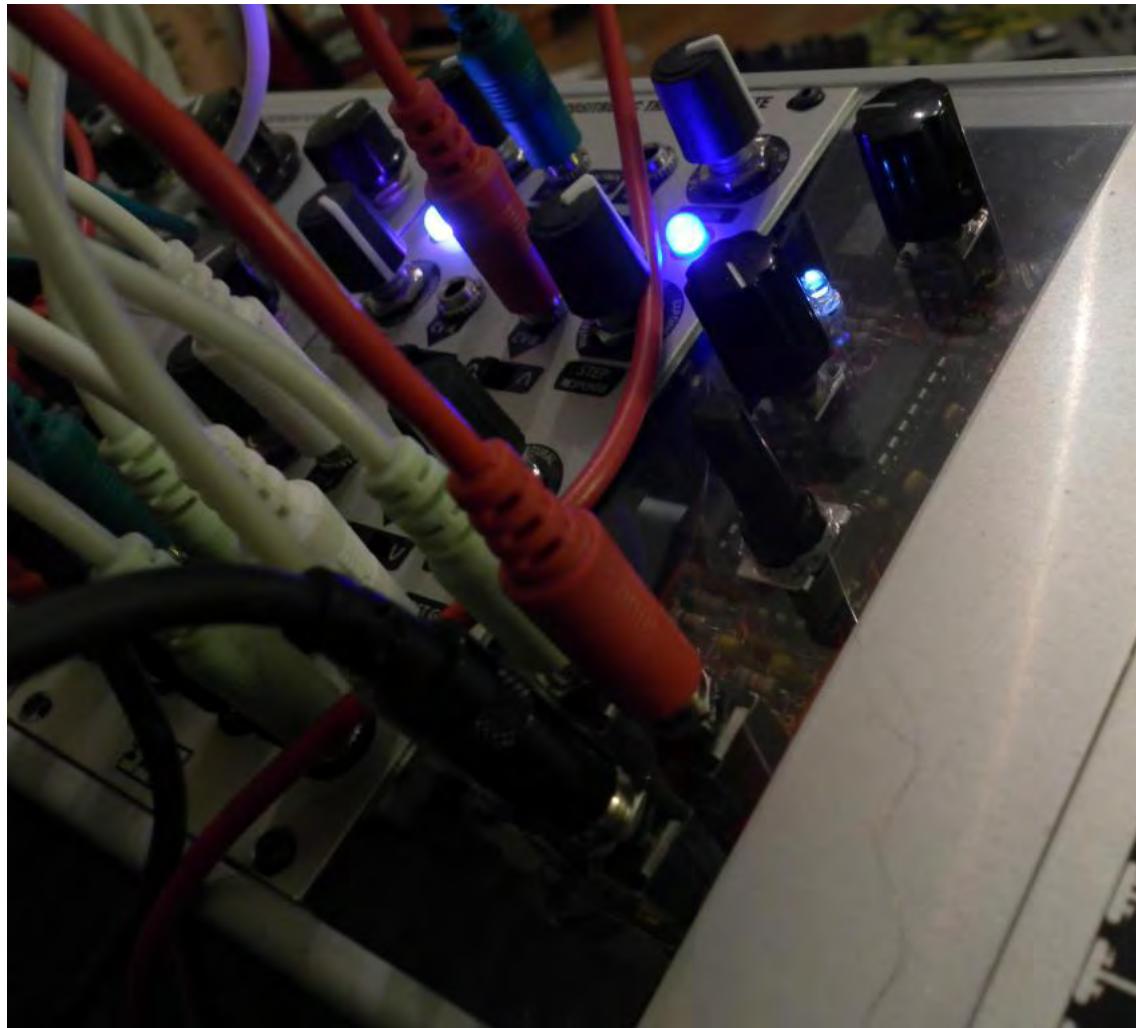
radiokoala
must. build. jacuzzi

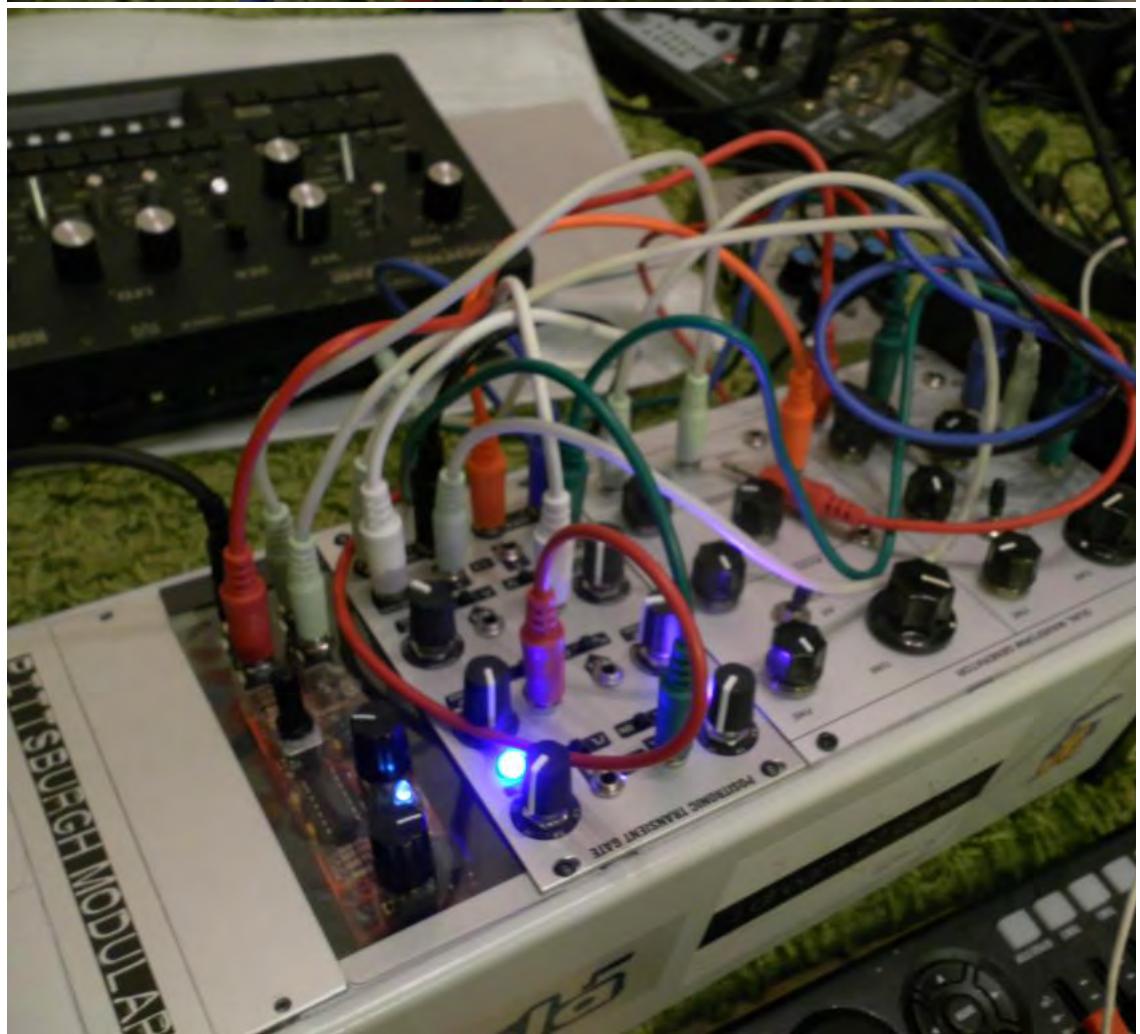
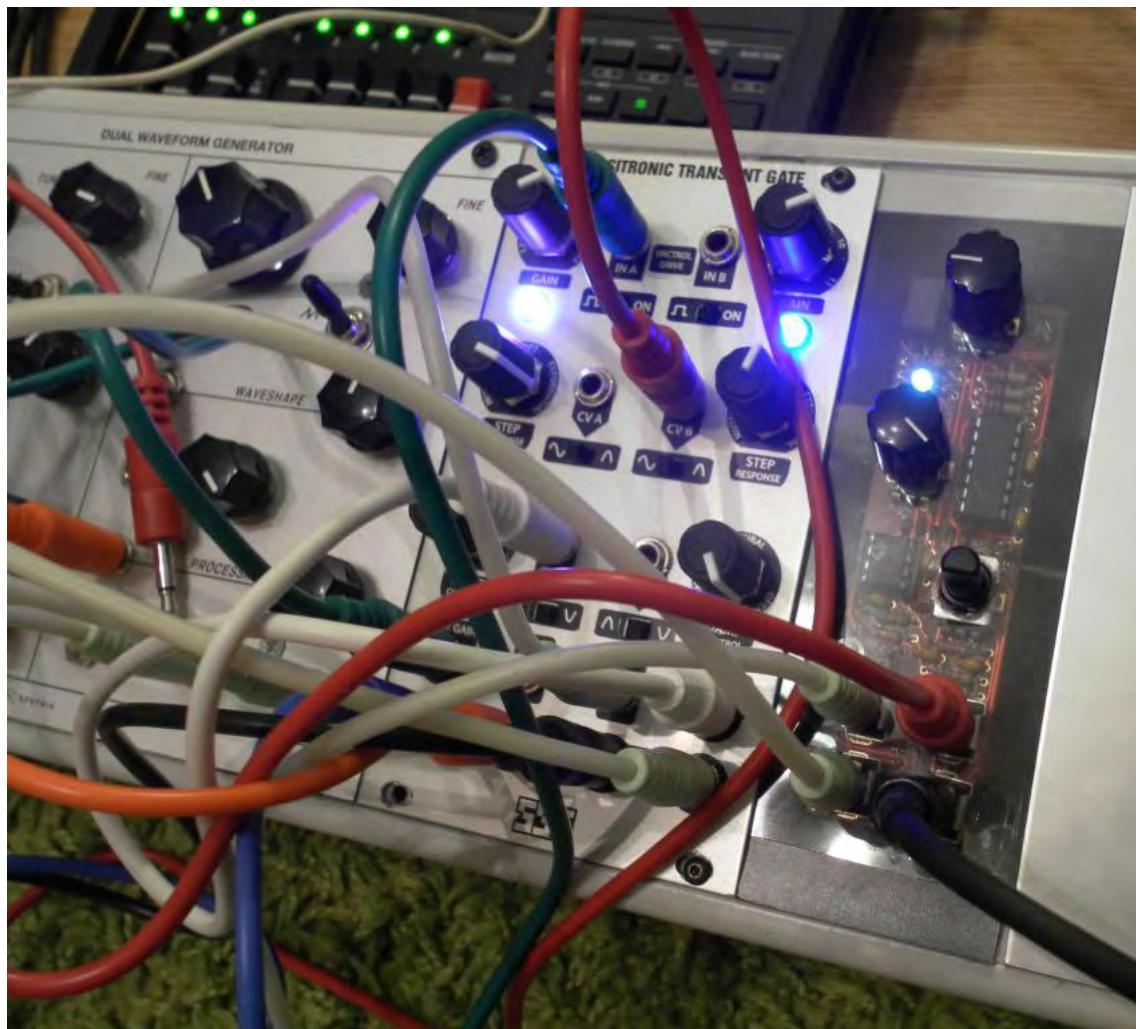


Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

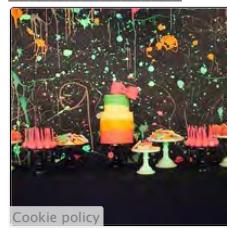
 Posts: 1530

 Posted: Mon Jan 27, 2014 3:59 pm Post subject:

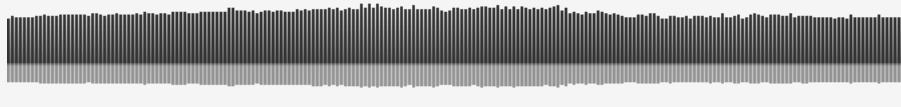




...dunno if anyone's into it 😊



radiokoala
Birthday Session



/ Analog & modular videos /
Soundcloud

[Back to top](#)

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utamaru
Common Wiggler



Joined: 01 Feb 2013
Last Visit: 12 Nov 2014

Posts: 68

[Back to top](#)

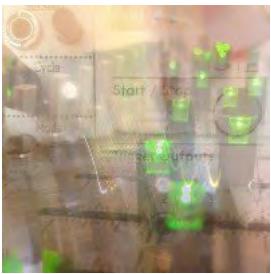
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oootini
Ultra Wiggler

Posted: Tue Jan 28, 2014 4:27 am Post subject:

finally got to test mine (had to wait to get dual male RCA cables!) initial tests put this in a different class to the a199, very little noise too, € the box. huzzah!

i also swapped c1 for a 100pf cap with no unexpected issues.



must see how it plays in feedback patches next.

great work tom/thonk.

<http://furtherrecords.org/album/sample-hold>

Joined: 23 Mar 2010
Last Visit: 07 Jan 2015



Posts: 829
Location: Dublin, Ireland

[Back to top](#)

Tombola
Super Deluxe Wiggle



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

the bad producer wrote:



This photo is no longer available

Wow! Love that.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

Tombola
Super Deluxe Wiggle



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

Posted: Tue Jan 28, 2014 6:05 am Post subject:

utamaru wrote:

This thing not being named "Spring Thing" is such a wasted opportunity! Most definately high on my build list, and in my next order from tho

Too many of those already!

<http://circuitridereffects.com/products/spring-thing/>

<http://www.tonetronix.com/p/Spring-Thing-Tube-Reverb.html>

<http://www.musicsynthesizer.com/diy/grant/spring%20thing/the%20spring%20thing.html>

<http://musicthing.co.uk/modular/>

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[Back to top](#)

Tombola
Super Deluxe Wiggle



Posted: Tue Jan 28, 2014 6:07 am Post subject:

radiokoala wrote:

...dunno if anyone's into it 😊

Lovely panel, bit big though, isn't it?

<http://musicthing.co.uk/modular/>

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

The Music Thing Module Generator®



Posts: 1322
Location: London, England

[Back to top](#)

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radiokoala

must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

Posted: Tue Jan 28, 2014 6:29 am Post subject:

Tombola wrote:

radiokoala wrote:

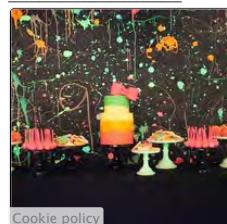
...dunno if anyone's into it 😊

Lovely panel, bit big though, isn't it?

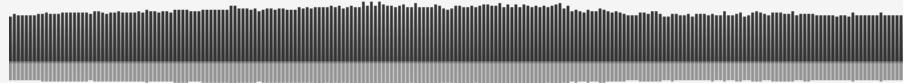
Thanks, yea - a bit, but that would be an easy fix when I need space. For now my rack's only half-full, so I wasn't intentionally fine-tailoring



PS: BTW I also recorded x-fade demo last night too,
<http://www.muffwiggler.com/forum/viewtopic.php?t=103407>



radiokoala
Birthday Session



/ Analog & modular videos /
Soundcloud

[Back to top](#)

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flocked

Common Wiggler

Joined: 05 May 2013
Last Visit: 27 Dec 2014

Posts: 155

Posted: Thu Jan 30, 2014 10:11 am Post subject:

Can I use doepfer patch cables to connect the spring reverb with the module?

And can I place a busboard directly next to tank (so that it's touching it) or will it cause noise in the spring reverb?

And is a switching power supply also causing noise or only linear?

I'm currently planing/building my case. Thanks! 😊

[Back to top](#)

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ootini

Ultra Wiggler



Joined: 23 Mar 2010
Last Visit: 07 Jan 2015

Posts: 829
Location: Dublin, Ireland

Posted: Thu Jan 30, 2014 10:15 am Post subject:

flocked wrote:

Can I use doepfer patch cables to connect the spring reverb with the module?

And can I place a busboard directly next to tank (so that it's touching it) or will it cause noise in the spring reverb?

And is a switching power supply also causing noise or only linear?

I'm currently planing/building my case. Thanks! 😊

1 - you'll need male male rca cables, or else jimmy the doepfer one off the module
2 - that's fine. i've done that. no perceptible issues.

3 - switching are generally more noisy i think

<http://furtherrecords.org/album/sample-hold>

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

Posted: Thu Jan 30, 2014 10:15 am Post subject:

flocked wrote:

Can I use doepfer patch cables to connect the spring reverb with the module?

No, spring tanks typically come with RCA connections. You could modify the tank to use 3.5mm connections instead, but I don't see why yo

flocked wrote:

And can I place a busboard directly next to tank (so that it's touching it) or will it cause noise in the spring reverb?

this would probably be a bad idea.

flocked wrote:

And is a switching power supply also causing noise or only linear?

I'm currently planing/building my case. Thanks! 😊

spring reverbs are very sensitive, like a guitar pickup. you should test the noise you get with the tank in proximity to the busboard before yo
for it to be external.

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)

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matttech
Super Deluxe Wiggler



Joined: 23 Feb 2011
Last Visit: 31 Dec 2014



Posts: 7917
Location: uk

Posted: Mon Feb 03, 2014 9:50 am Post subject:

any more thoughts on making an expander available?

am starting to think about making one of these, but would probably go for both spring and brick

not so bothered about 100% wet output, but a dry TILT output would be great!

MODULAR SYNTH MUSIC:

<http://soundcloud.com/spitezoo-experimental-lab>

MODULE DEMOS:

<http://matttechmodulardemos.bandcamp.com/>

INTERESTING EURORACK PATCHES:

<http://matttechoffcuts.bandcamp.com/>

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



[Back to top](#)

Posted: Mon Feb 03, 2014 9:57 am Post subject:

I'm afraid all I've seemed to do in January is non-stop paperwork and shipping. I'd be well up for supporting some community based expand
the original is open source after all 😊

Thonk - Modular Synth DIY + Eurorack Accessories Store

Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

Posted: Mon Feb 03, 2014 12:21 pm Post subject:

Is there a mixer in circuit? I thought today since it has return, the signals must be summed, so think about hacking in 2 jacks thru potentio



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

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radiokoala
Birthday Session





Posts: 1530

/ Analog & modular videos /
Soundcloud

[Back to top](#)

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

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□ Posted: Mon Feb 03, 2014 12:34 pm Post subject:

[quote="matttech"]any more thoughts on making an expander available?

am starting to think about making one of these, but would probably go for both spring and brick

not so bothered about 100% wet output, but a dry TILT output would be great![/quote]

If you're interested in simple non-CV EQ, I have two nice simple EQ circuits built in Eagle - the Tilt from this, and a simple Baxandall bass/t circuits. Had been thinking about putting them into a 4hp module - happy to share my files for anyone getting started with Eagle / module

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

KNYST
hiding in the forest



Joined: 26 Jan 2009
Last Visit: 01 Jan 2015



Posts: 2748
Location: the Taiga, Sweden

□ Posted: Tue Feb 04, 2014 7:06 am Post subject:

Are these panels available yet?
(sorry if already mentioned somewhere)

Monobass wrote:

Black PCB panels coming soon, along with white and alu panels for sale loose.



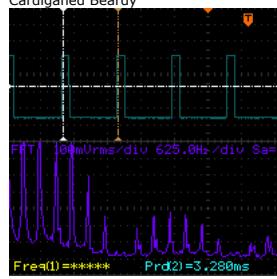
NOISE HEALS.
patch responsibly.
LISTEN | WATCH
>> The KNYST GONG performances!

[Back to top](#)

eef
Cardiganed Beardy

Posted: Wed Feb 12, 2014 9:12 pm Post subject: Anyone recognize this reverb?



I have ordered the Thonk kit with the intention of using it with an old spring reverb I "rescued" from a 1970s Hammond VLSI organ. One of actually sounded pretty good when they worked, but were hard to keep working because all the cheap connectors would corrode.

Anyway, it is a smallish two spring unit with no markings that I can match to any discussed in the docs. New units are cheap enough that I thing, but as I said the original sounded pretty good, and maybe recycling isn't all bad?

I've attached pictures of the Driver Board (all discrete components OMG!!) and the springs, in case that helps. What I'd really like to know unit is designed to drive, or if I need to modify the circuit, or just break down and get a new spring box.

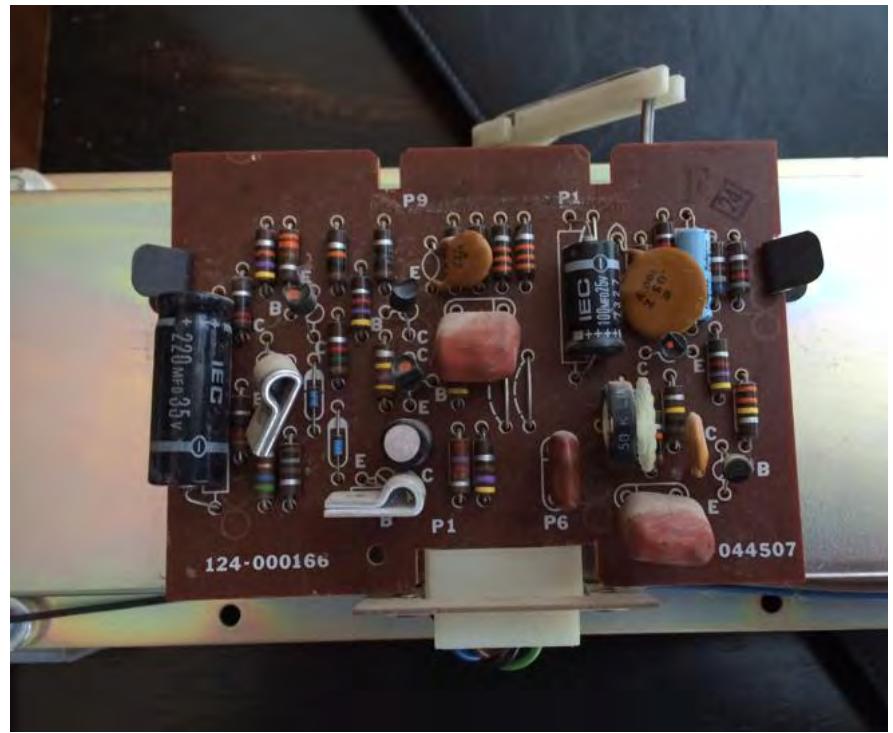
Joined: 20 Jul 2010
Last Visit: 07 Jan 2015


Posts: 118
Location: Santa Fe, NM

Description:

Filesize: 47.18 KB
Viewed: 475 Time(s)

driverboard.JPG



springs.JPG

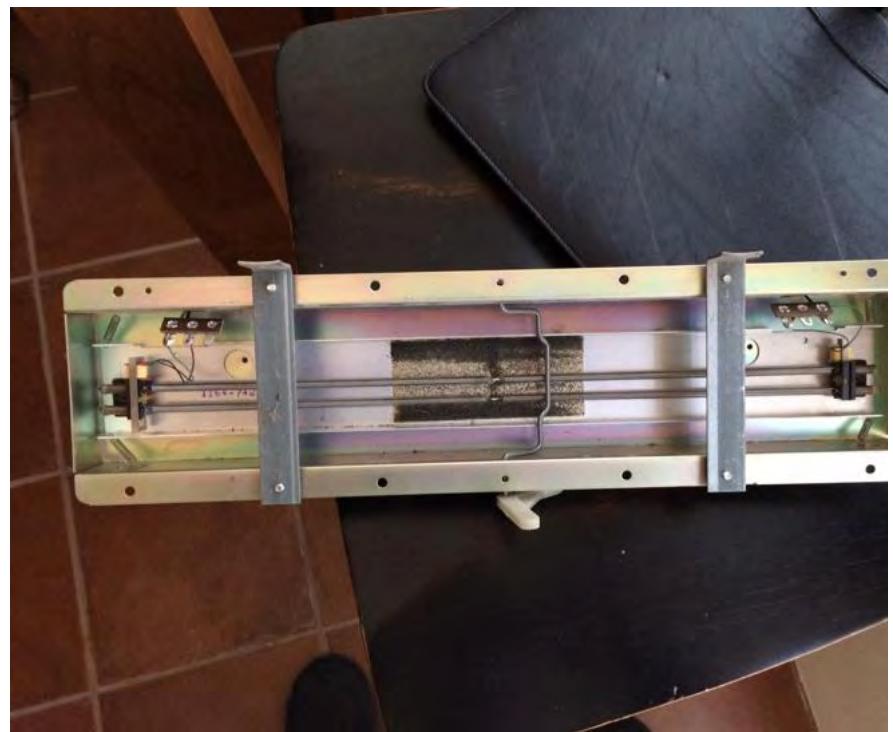
Description:

Filesize:

Viewed:

44.38 KB

475 Time(s)



[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009

Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

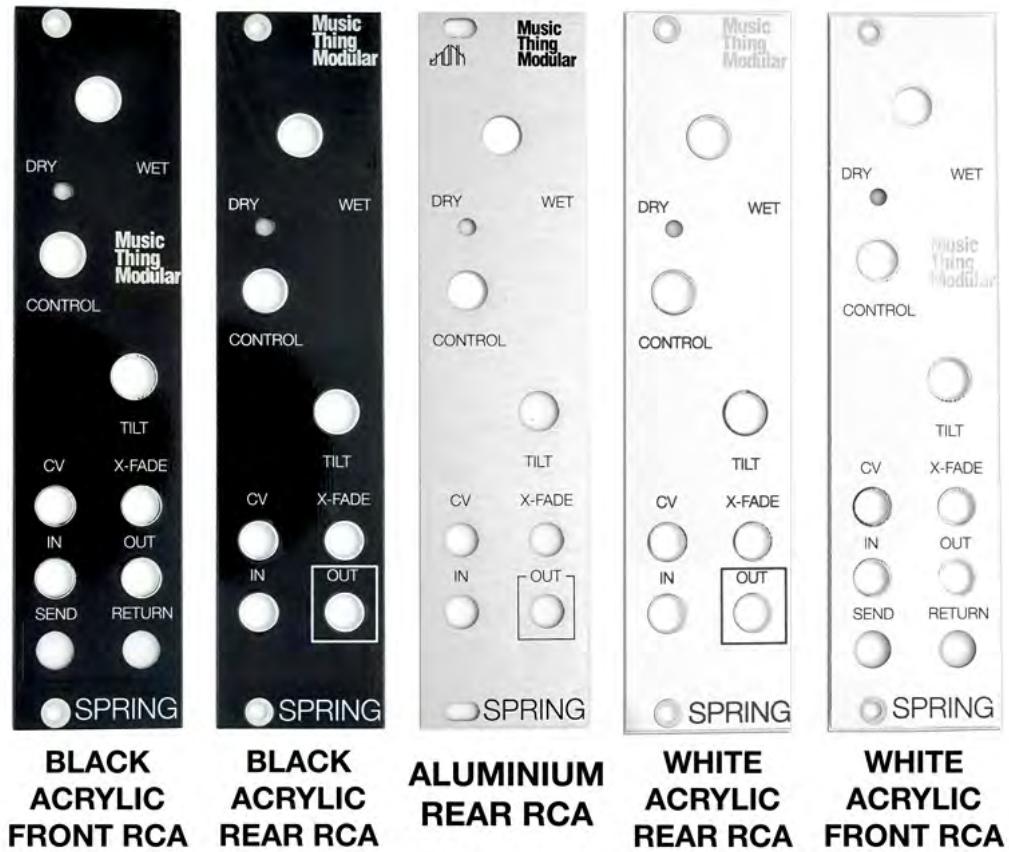
Posted: Thu Feb 13, 2014 3:41 am Post subject:

KNYST wrote:

Are these panels available yet?
(sorry if already mentioned somewhere)

Yeah all loose panels available here:

<http://www.thonk.co.uk/shop/music-thing-spring-reverb-panels-and-pcbs/>



[Back to top](#)

Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

Posted: Thu Feb 13, 2014 5:44 am Post subject: Re: Anyone recognize this reverb?

eef wrote:

I've attached pictures of the Driver Board (all discrete components OMG!!) and the springs, in case that helps. What I'd really like to know is Thonk unit is designed to drive, or if I need to modify the circuit, or just break down and get a new spring box.

In between the two springs, over on the left, are some letters or numbers too small/blurry to read in that photo. What do they say? Any ot anywhere?

[ondes](#) | [current rack](#)

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

Joined: 20 Jul 2010
Last Visit: 07 Jan 2015

Posts: 118
Location: Santa Fe, NM

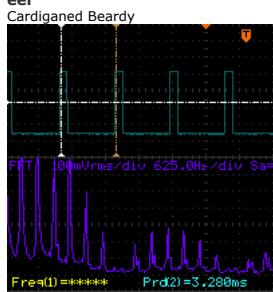
Posted: Thu Feb 13, 2014 12:35 pm Post subject: Re: Anyone recognize this reverb?

Nantonos wrote:

eef wrote:

I've attached pictures of the Driver Board (all discrete components OMG!!) and the springs, in case that helps. What I'd really like to of thing that the Thonk unit is designed to drive, or if I need to modify the circuit, or just break down and get a new spring box.

In between the two springs, over on the left, are some letters or numbers too small/blurry to read in that photo. What do they sa or numbers anywhere?



Joined: 20 Jul 2010
Last Visit: 07 Jan 2015

1164-7425-

Posts: 118
Location: Santa Fe, NM

Does that mean anything to you? It is printed right on the plate that holds the springs, so it might be meaningful. It also has 23572-0 engr 000131 and 30 165 74 printed in blue in on the side. That last number might be a date code.

Also, underneath the driver board (which I had not removed until just now) It says:
accutronics
Geneva, ILL
PAT. 2,982,819
3,106,610

The 23572-0 number led me to this auction:

<http://www.ebay.com/item/Vintage-Accutronics-Reverb-Tank-Geneva-IL-2357-2-0-4FB2A1B-Made-in-USA-/201035088378>

That tank looks similar, but mine has the clamp to lock the springs down. Unfortunately, the seller doesn't know what model it really is eith

Also here:

http://www.fenderforum.com/forum.html?db&topic_number=729080

littleuch seems to say that the 23572-0 means it is a 9AB2C1B, which might be a problem for the circuit, as the A means an 8-10 Ohm inpi not work, according to the docs). Has anyone tried a low input impedance spring? Or perhaps a simple resistor in circuit?

Finally I can look at the coils themselves, and measure resistance (though not impedance). Both coils have a back wire and a green wire, a middle. The input coil has white plastic ends, and I measure very low resistance, about .7 Ohm. The output coil has red plastic ends, ar I've found references to an accutronics chart that lists the coil color codes, but I can't find the chart itself.

Of course I need to know which wire goes to which side of the RCA jack also, since my tank doesn't have jacks, and they will need to be ad

<http://soundcloud.com/robert-efroymson/>

[Back to top](#)[profile](#) [pm](#)**Nantonos**
Super Deluxe WiggleJoined: 03 Mar 2013
Last Visit: 22 Jan 2015 Posts: 1024
Location: Côte d'Azur, France

Posted: Thu Feb 13, 2014 5:03 pm Post subject:

Okay so nothing like an accutronics spring code.

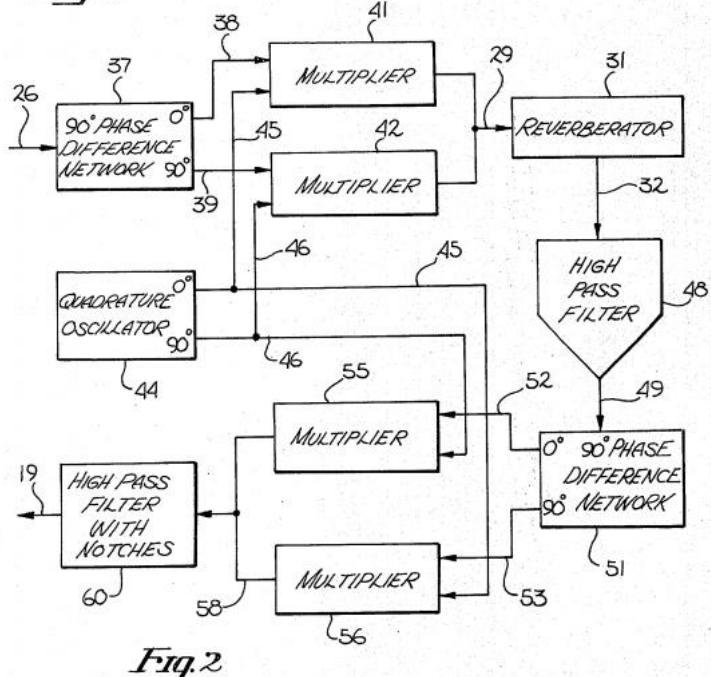
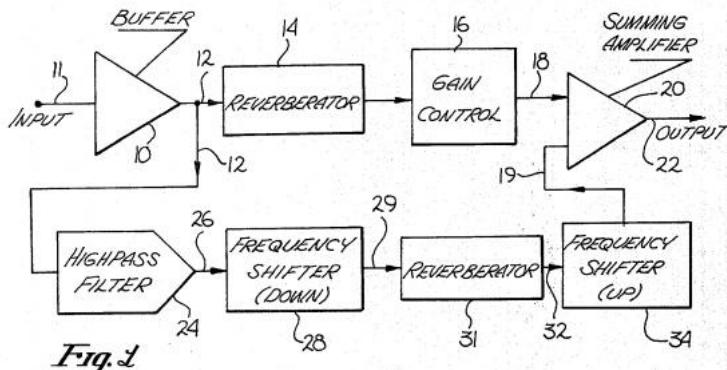
The patent number is interesting though:

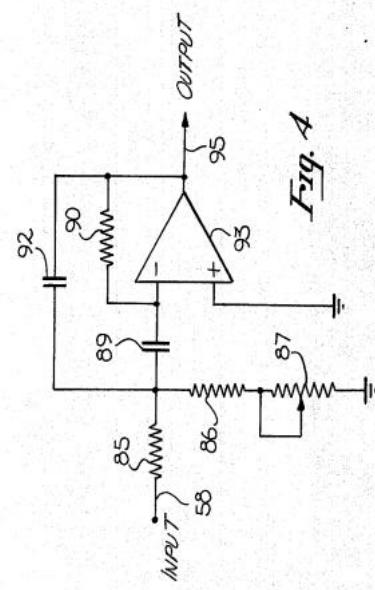
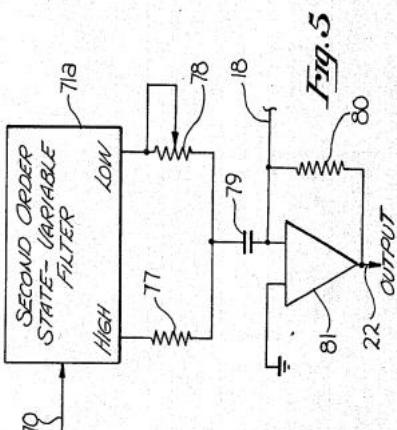
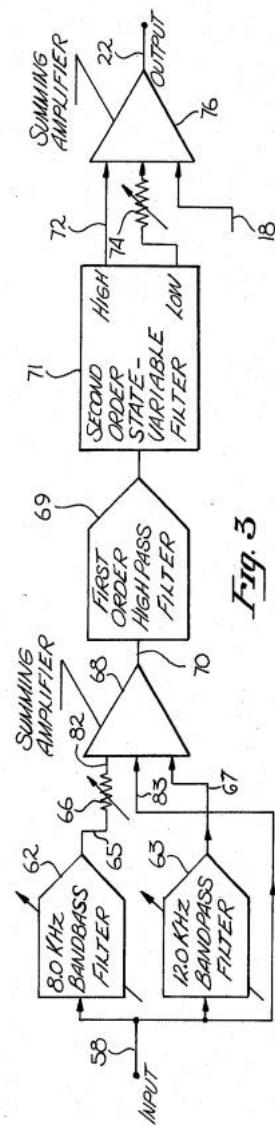
Quote:**Reverberation system with extended frequency response**

US 3980828 A

Abstract

A reverberation system which employs low cost, spring reverberators and obtains a frequency response to beyond 9kHz. The high frequency frequency shifted, to a lower range, applied to a reverberator, and then frequency shifted to their original range. This signal is then summed reverberator which receives the lower frequency components of the input signal.

U.S. Patent Sept. 14, 1976 Sheet 1 of 2 **3,980,828**



ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

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noisefor
Common Wigglar



Joined: 24 Mar 2011
Last Visit: 23 Dec 2014

Posts: 194
Location: Oakland

[Back to top](#)

Posted: Fri Feb 14, 2014 3:23 am Post subject: Damage Capacitor

Just finished a brick build and powered up and nothing - only clean signal. Examined board and all was as it should be except... I noticed tI installed the pot. I can replace this no problem, but my question is could I have damaged the circuit by running power through it in that s

Joined: 24 Mar 2011
Last Visit: 23 Dec 2014

Posts: 194
Location: Oakland

[Back to top](#)

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ootini
Ultra Wigglar



Joined: 23 Mar 2010
Last Visit: 07 Jan 2015

Posts: 829
Location: Dublin, Ireland

Posted: Fri Feb 14, 2014 3:24 am Post subject:

probably not.

<http://furtherrecords.org/album/sample-hold>

[Back to top](#)

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airfrankenstein
Wiggling with Experience

Joined: 23 Dec 2013
Last Visit: 07 Jan 2015

Posts: 294

Posted: Tue Feb 18, 2014 8:02 am Post subject:

Will the following tank work as well with the thonk reverb?

<http://www.banzaimusic.com/Belton-RBS3EB2C1B.html>
Belton RBS3EB2C1B

slightly smaller than the 9EB2C1B

[Back to top](#)

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Nantonos
Super Deluxe Wigglar



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: CÃ'te d'Azur, France

Posted: Tue Feb 18, 2014 10:00 am Post subject:

airfrankenstein wrote:

Will the following tank work as well with the thonk reverb?
<http://www.banzaimusic.com/Belton-RBS3EB2C1B.html>
Belton RBS3EB2C1B

slightly smaller than the 9EB2C1B

Yes. The important points for compatibility being the input and output impedances (EB) and the output Edit: **input** being isolated from case

Good explanation of how to interpret the tank numbers:

http://www.amplifiedparts.com/tech_corner/spring_reverb_tanks_explained_and_compared

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

Last edited by Nantonos on Sat Feb 22, 2014 6:50 pm; edited 1 time in total

[Back to top](#)

Buckyball
Common Wiggler

Joined: 30 Jan 2012
Last Visit: 18 Aug 2014

Posts: 60
Location: Nashville

□ Posted: Tue Feb 18, 2014 11:11 am Post subject:

Nantonos wrote:

airfrankenstein wrote:

Will the following tank work as well with the thonk reverb?
<http://www.banzaimusic.com/Belton-RBS3EB2C1B.html>
Belton RBS3EB2C1B

slightly smaller than the 9EB2C1B

Yes. The important points for compatibility being the input and output impedances (EB) and the output being isolated from case ground.

Doesn't the "C" mean the input, and not the output, is isolated from the ground?

Buck

[Back to top](#)

airfrankenstein
Wiggling with Experience

Joined: 23 Dec 2013
Last Visit: 07 Jan 2015

Posts: 294

□ Posted: Tue Feb 18, 2014 11:37 am Post subject:

Thanks Nantonos for a great link.
Buckyball, I don't know but the only difference between the Belton and the Accutronics is the type (3 vs 9), which seems related to size.

[Back to top](#)

Buckyball
Common Wiggler

Joined: 30 Jan 2012
Last Visit: 18 Aug 2014

Posts: 60
Location: Nashville

Buck

□ Posted: Tue Feb 18, 2014 11:50 am Post subject:

Agreed -- as long as they match then the Belton should work.

Buck

[Back to top](#)

Buckyball
Common Wiggler

Joined: 30 Jan 2012
Last Visit: 18 Aug 2014

Posts: 60
Location: Nashville

□ Posted: Tue Feb 18, 2014 12:01 pm Post subject:

Nantonos, I saw a list at the bottom of your link that lists the sonic characteristics of a few brands of spring tank. Has anyone tried the Mod™ tank?

Here's the list from the bottom of Nantonos' link:

	Echo (early reflections)	Flutter (cluttered reflections)	Guitarist Description (overall)
Accutronics® no longer in production	Pronounced	Rapid Most emphasis on highs	Focused, bright and mellow wetness
Accutronics® (Korea)	Subtle	Rapid Emphasis on lows & mids	Thick with lots of wet bite and mid attack
Mod™	Pronounced	Rapid Emphasis on mids & highs	Focused, lots of wet shimmer and bite
Belton (Korea)	Moderate	Slow Most emphasis on lows & mids	Straightforward with lots of wet bite

Buck

[Back to top](#)

Nantonos
Super Deluxe Wiggler

□ Posted: Tue Feb 18, 2014 3:37 pm Post subject:

Buckyball wrote:

**Nantonos wrote:**

Yes. The important points for compatibility being the input and output impedances (EB) and the output being isolated from case ground end).

Doesn't the "C" mean the input, and not the output, is isolated from the ground?

Yes you are correct. My mistake. What matters though is that the input and the output are isolated from each other.

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

Posted: Tue Feb 18, 2014 3:42 pm Post subject:

The one I have is the Tube Amp Doctor 9EB2C1B.

Will say what it sounds like once I finish building the Music Thing 😊

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

Posted: Tue Feb 18, 2014 4:03 pm Post subject:

Just a quick bump to say that the Spring expander design is currently in progress and there should be more details in the next couple of weeks.

Thonk - Modular Synth DIY + Eurorack Accessories Store



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

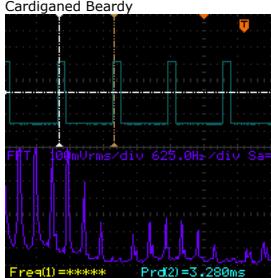
[Back to top](#)

Posted: Tue Feb 18, 2014 7:00 pm Post subject:

The box from Thonk arrived, so my urgency is slightly greater now. I am pretty sure my spring reverb has a very low input impedance, and too much current. Is it too easy to just put some resistance in series with the input to raise the impedance (which I understand to be resistive)? I have plenty of resistors in my parts box, so that part is not so hard.

Anyone else try this?

<http://soundcloud.com/robert-efroymson/>



Joined: 20 Jul 2010
Last Visit: 07 Jan 2015

Posts: 118
Location: Santa Fe, NM

[Back to top](#)

Posted: Sat Feb 22, 2014 10:15 am Post subject:

The build manual mentions a capacitor (C12 i believe) that sits behind a socket. Which socket? I missed this detail.

Joined: 23 Dec 2013
Last Visit: 07 Jan 2015

airfrankenstein
Wiggling with Experience



Posts: 294

[Back to top](#)

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

□ Posted: Sat Feb 22, 2014 12:53 pm Post subject:

airfrankenstein wrote:

The build manual mentions a capacitor (C12 i believe) that sits behind a socket. Which socket? I missed this detail.

There is an electrolytic cap that goes on the back of the board, behind the input/output 3.5mm sockets

I mention it because it would be fiddly to solder after you'd put on the sockets

<http://musicthing.co.uk/modular/>

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[Back to top](#)

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

□ Posted: Sat Feb 22, 2014 12:58 pm Post subject:

eef wrote:

The box from Thonk arrived, so my urgency is slightly greater now. I am pretty sure my spring reverb has a very low input impedance, and I'm drawing too much current. Is it too easy to just put some resistance in series with the input to raise the impedance (which I understand to be more suitable range)? I have plenty of resistors in my parts box, so that part is not so hard.

Anyone else try this?

No idea about this, I'm afraid.

My understanding (experimentally and theoretically) is that impedance is a function of the drive coil itself. If it was as simple as you described, then I could just put a resistor in series with the input to raise the impedance and save a lot of complexity...

If the specs are very different from my springs (ie the ones the circuit was designed for and tested with) then it may not perform well.

<http://musicthing.co.uk/modular/>

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[Back to top](#)

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airfrankenstein
Wiggling with Experience

□ Posted: Sat Feb 22, 2014 2:27 pm Post subject:

Tombola wrote:

airfrankenstein wrote:

The build manual mentions a capacitor (C12 i believe) that sits behind a socket. Which socket? I missed this detail.

There is an electrolytic cap that goes on the back of the board, behind the input/output 3.5mm sockets

I mention it because it would be fiddly to solder after you'd put on the sockets

Got it, thanks! I was afraid there might be one under an ic socket somewhere.

[Back to top](#)

[profile](#) [pm](#)

Tombola
Super Deluxe Wiggler



□ Posted: Sat Feb 22, 2014 2:32 pm Post subject:

airfrankenstein wrote:

Tombola wrote:

airfrankenstein wrote:

The build manual mentions a capacitor (C12 i believe) that sits behind a socket. Which socket? I missed this detail.

There is an electrolytic cap that goes on the back of the board, behind the input/output 3.5mm sockets

I mention it because it would be fiddly to solder after you'd put on the sockets

Got it, thanks! I was afraid there might be one under an ic socket somewhere.

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

That would be evil! (Although not completely unlike the LED/expansion header thing on the Turing Machine)

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

|

airfrankenstein
Wiggling with Experience

Joined: 23 Dec 2013
Last Visit: 07 Jan 2015

Posts: 294

□ Posted: Sat Feb 22, 2014 2:36 pm Post subject:

Tombola wrote:

airfrankenstein wrote:

Tombola wrote:

airfrankenstein wrote:

The build manual mentions a capacitor (C12 i believe) that sits behind a socket. Which socket? I missed this detail.

There is an electrolytic cap that goes on the back of the board, behind the input/output 3.5mm sockets

I mention it because it would be fiddly to solder after you'd put on the sockets

Got it, thanks! I was afraid there might be one under an ic socket somewhere.

That would be evil! (Although not completely unlike the LED/expansion header thing on the Turing Machine)

fond memories of undoing that error

[Back to top](#)

|

Nantonos
Super Deluxe Wigglie



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

□ Posted: Sat Feb 22, 2014 6:15 pm Post subject:

eef wrote:

I am pretty sure my spring reverb has a very low input impedance, and thus there is some concern of it drawing too much current. Is it too ϵ series with the input to raise the impedance (which I understand to be resistance + reactance) to a more suitable range?

Short version: no.

Longer version: No, really really no.

As you mentioned, impedance is resistance and reactance. Most of the impedance of the coil is reactive. As an example, a 9E**** spring h: resistance is only 60Ω . A 9A**** on the other hand has an impedance of 10Ω and a DC resistance of only 1Ω .

Adding a series resistor will change the DC resistance, it won't change the reactance. Also, the point is to send power to the coil to make it power to heat up a resistor will prevent excessive current draw, sure, but you also want the spring to do something as well.

Of the various grades (A to F) of input impedance, basically A need a lot of current (think small power amp), B needs a fair bit, C D and E a voltage swing you could get from an op-amp running on 12 or 15V bipolar, and F needs higher voltage. This is why the Music Thing reverb and F, no, you need special circuitry there.



Image from this article which is well worth reading.

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

|

kires
Common Wigglie



□ Posted: Sat Feb 22, 2014 9:17 pm Post subject:

Just finished kit from Thonk (Rca at the back) with BTDR-2H brick. I'm using brick only & all I get is output getting quieter & distorted, no r Shunt is in correct "Brick" position.

I understand that calibration has no effect on the brick, so there's no point using trimpot.

Any ideas? 😊

WTB: PCB, DIY Kits

Joined: 27 Oct 2013
Last Visit: 06 Jan 2015

Posts: 112
Location: London

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airfrankenstein
Wiggling with Experience

Joined: 23 Dec 2013
Last Visit: 07 Jan 2015

 Posts: 294

Posted: Sun Feb 23, 2014 2:17 am Post subject:

I would start by looking for short circuits and verify that all ic's are in proper sockets, oriented correctly and no legs bent.

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kires
Common Wiggler



Joined: 27 Oct 2013
Last Visit: 06 Jan 2015

 Posts: 112
Location: London

Yes indeed, one of the socket legs was poorly soldered, fixed it & all good! 

Thanks for the tip, will double check connections before posting next time 

WTB: PCB, DIY Kits

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airfrankenstein
Wiggling with Experience

Joined: 23 Dec 2013
Last Visit: 07 Jan 2015

 Posts: 294

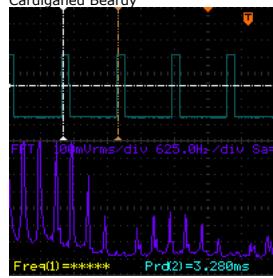
Posted: Sun Feb 23, 2014 8:38 am Post subject:



[Back to top](#)

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eef
Cardiganed Beardy



Posted: Sun Feb 23, 2014 10:10 pm Post subject:
Thanks! Very helpful. I knew it couldn't be that easy, and had looked at that Amplified Parts PDF, but hadn't noticed that the driver circuits tubes, and only the high impedance ones are driven by TL072s.

So I have ordered a tank I know will work ...

On a not terribly related note, I found a 68pf capacitor in my ceramic cap bag, and I guess I will try that in the circuit in place of C1. I saw only have 68 and 151.

Or is it just as well to leave the cap off? Just going off the discussion a few pages back: <http://www.muffwiggler.com/forum/viewtopic.php?order=asc&start=640>

Joined: 20 Jul 2010
Last Visit: 07 Jan 2015

 Posts: 118
Location: Santa Fe, NM

Nantonos wrote:

eef wrote:

I am pretty sure my spring reverb has a very low input impedance, and thus there is some concern of it drawing too much current. some resistance in series with the input to raise the impedance (which I understand to be resistance + reactance) to a more suitable value.

Short version: no.

Longer version: No, really really no.

As you mentioned, impedance is resistance and reactance. Most of the impedance of the coil is reactive. As an example, a 9E**** 800Ω while the DC resistance is only 60Ω. A 9A**** on the other hand has an impedance of 10Ω and a DC resistance of only 1Ω.

Adding a series resistor will change the DC resistance, it won't change the reactance. Also, the point is to send power to the coil to waste lots of that power to heat up a resistor will prevent excessive current draw, sure, but you also want the spring to do something.

Of the various grades (A to F) of input impedance, basically A needs a lot of current (think small power amp), B needs a fair bit, C current and the voltage swing you could get from an op-amp running on 12 or 15V bipolar, and F needs higher voltage. This is what good for C D and E with B at a push. A and F, no, you need special circuitry there.



Image from this article which is well worth reading.

<http://soundcloud.com/robert-efromson/>

[Back to top](#)

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EMwhite
Super Deluxe Wiggler



Joined: 08 Feb 2012
Last Visit: 07 Jan 2015

Posts: 1602
Location: NY Metro area

□ Posted: Wed Feb 26, 2014 2:20 pm Post subject:

This may have been asked elsewhere, but any issues using 5% tolerance resistors? I was short a few and had to resort to going to RadioSh about 400 of them for \$15 in order to get the values I needed!

Serves me right for not looking. Then of course I get home and find out that I have to order a few caps anyway...

This isn't a quantizer but wanted to ask the general question. Specifically, it's:

R4,5,6,7,24

Thanks...

Beware of programmers with screwdrivers...

[Back to top](#)

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radiokoala
must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

□ Posted: Wed Feb 26, 2014 2:40 pm Post subject:

I can say every single resistor I used was 5%, and while I haven't bought brick yet, at least in x-fade mode all works as advertised. I'd wait don't think you'd get in trouble. 😊

radiokoala
Birthday Session

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Soundcloud

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

□ Posted: Wed Feb 26, 2014 2:57 pm Post subject:

I'd imagine those resistors will be fine - there's not much precision in anything involving a spring.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

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Poldenstein
Wiggling with Experience

□ Posted: Thu Feb 27, 2014 10:45 am Post subject:

Hi

I just received the accutronics 9EB2C1B, so I can start building now 🎉
But... This thing is HUGE!! I did not take measurements yet, but it looks something like 84hp wide. Did I make the right order?
I got the rear connection reverb panel as I was meaning to put the springs somewhere inside the case, but I am no longer sure it will fit in problem, but if I want it faraway from the PSU space could be tight. Maybe I'll drill a hole to get the wires out from the back of the case and



enclosure to move around the studio.

Any opinion/suggestion?

Thank you

<http://poldenstein.bandcamp.com/album>

<http://gutturalgoats.bandcamp.com/album>

<https://soundcloud.com/pirupiruproject/aummaumma-live-jam-suite>

Joined: 04 Aug 2013
Last Visit: 22 Jan 2015

 Posts: 254
Location: Italy

[Back to top](#)

[!\[\]\(de275a74db369001e879bbff5198374f_img.jpg\)](#) [!\[\]\(65ab40fcdddb895fbcc4490c7a14bb2d_img.jpg\)](#) [profile](#) [!\[\]\(93d75e3b04748d9339e15f72653a6ae6_img.jpg\)](#) [pm](#)

Posted: Thu Feb 27, 2014 10:51 am Post subject:

I think using the rear RCAs and drilling a hole is the best solution from all perspectives.

I hate having cables sticking out my modular that aren't 3.5mm patch cables... I'm not prone to OCD but that even gets me 😊

[Thonk - Modular Synth DIY + Eurorack Accessories Store](#)



Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

[Back to top](#)

[!\[\]\(eedd749030769d6c42173bf5f5369910_img.jpg\)](#) [!\[\]\(073a80e9e4a8fba2e5a9800cf8c8192f_img.jpg\)](#) [profile](#) [!\[\]\(eedf2bfc9202ce769e20705f2e778817_img.jpg\)](#) [pm](#) [!\[\]\(15f388369bfec2354d6d9661515f060f_img.jpg\)](#) [email](#)

Posted: Thu Feb 27, 2014 11:30 am Post subject:

Thank you Monobass, the only thing I'd hate about this solution is wasting an 84hp enclosure just for the springs.

Monobass wrote:

I hate having cables sticking out my modular that aren't 3.5mm patch cables... I'm not prone to OCD but that even gets me 😊

The same here. I have cables sending CVs from outside the modular and they're always on my way. I have already planned some I/O tiles bit.

<http://poldenstein.bandcamp.com/album>

<http://gutturalgoats.bandcamp.com/album>

<https://soundcloud.com/pirupiruproject/aummaumma-live-jam-suite>



Joined: 04 Aug 2013
Last Visit: 22 Jan 2015

 Posts: 254
Location: Italy

[Back to top](#)

[!\[\]\(185da51097467edd056ef5b6be8f4a23_img.jpg\)](#) [!\[\]\(b6260d3b0b88ec95b016fd0725c835fb_img.jpg\)](#) [profile](#) [!\[\]\(4dae79f0fb8f974f77f81a3b7e8c9ed0_img.jpg\)](#) [pm](#)

Posted: Thu Feb 27, 2014 12:13 pm Post subject:

Has anyone tried using the blue Accutronics tank the Metasonix R-56 uses?

Joined: 16 Jul 2013
Last Visit: 07 Jan 2015

 Posts: 4

[Back to top](#)

[!\[\]\(7ecd12bc546c5d3aad325dfc36e15f1a_img.jpg\)](#) [!\[\]\(3ef9b1b81c48c0a70bc2b641800e465e_img.jpg\)](#) [profile](#) [!\[\]\(6dbbd8d2195cabfc30a2f7333fea05d2_img.jpg\)](#) [pm](#)

Posted: Thu Feb 27, 2014 12:14 pm Post subject:

Poldenstein wrote:

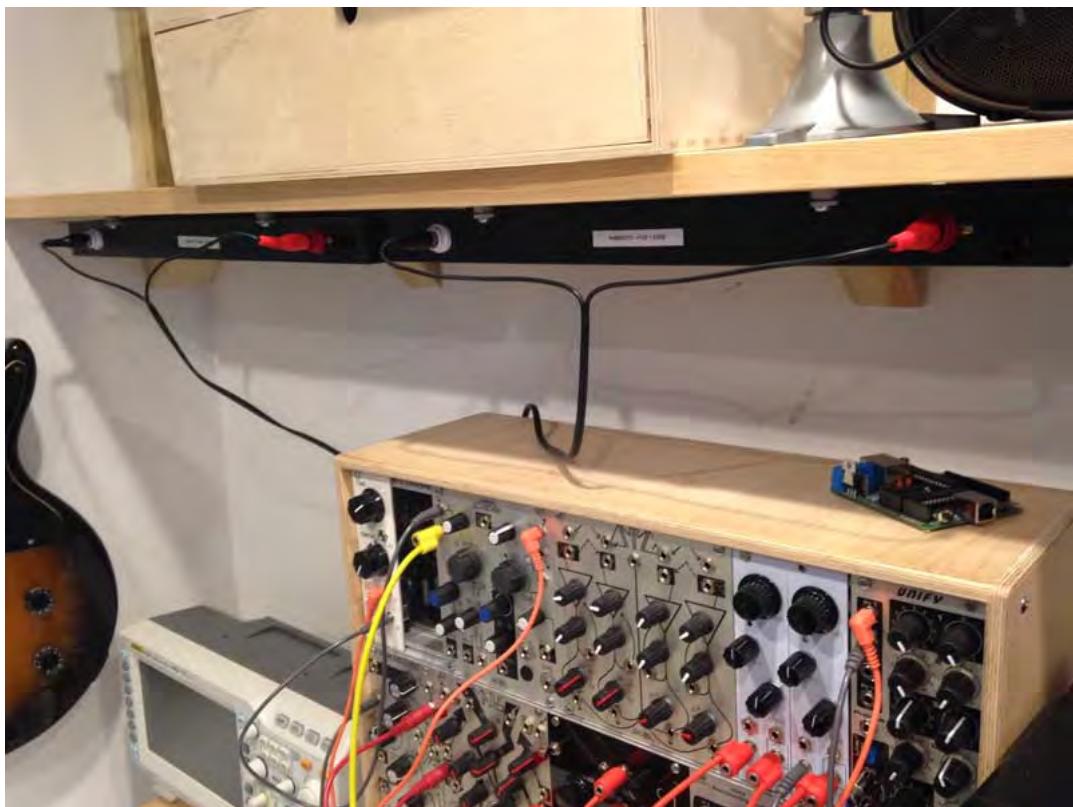
Thank you Monobass, the only thing I'd hate about this solution is wasting an 84hp enclosure just for the springs.

This is how I do it:



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015


Posts: 1322
Location: London, England



<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

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Tombola
Super Deluxe Wiggle



Posted: Thu Feb 27, 2014 12:21 pm Post subject:

zardoz wrote:

Has anyone tried using the blue Accutronics tank the Metasonix R-56 uses?

I have a couple - they work OK, sound OK, but I'm not sure you can buy them anywhere but direct from Accutronics.

Two downsides - they seem to pick up more hum than traditional tanks, perhaps because they are entirely plastic so don't have the shield to avoid feedback, because they don't have the spring isolators you see in traditional tanks. I had two mounted in a hammond box (for shield) at pretty low levels.

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015


Posts: 1322
Location: London, England

One upside: skippable real spring reverb:



<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Back to top](#)

radiokoala
must. build. jacuzzi



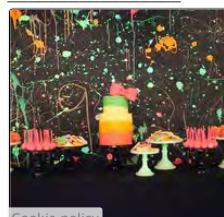
Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

Posted: Thu Feb 27, 2014 4:44 pm Post subject:

Will return input work in only spring mode, or with jumper selecting brick also? Another thing, I decided to normal input to my 258 tri and 1 minijacks (but post-EQ output instead of usual send - looks a better idea to me). The question is, how I wire return - signal to rtn-tip I assume and which would be better to connect to?

Last, would normalalling a vco out be as easy as to solder a wire to input jack leg? How do I make sure that patching will break a normal, or effort? And please remind me which one on a jack is signal input 🎉 Many thanks!



radiokoala
Birthday Session



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[Back to top](#)

Tombola
Super Deluxe Wiggle

Posted: Thu Feb 27, 2014 5:18 pm Post subject:

radiokoala wrote:

Will return input work in only spring mode, or with jumper selecting brick also? Another thing, I decided to normal input to my 258 tri and 1 minijacks (but post-EQ output instead of usual send - looks a better idea to me). The question is, how I wire return - signal to rtn-tip I assume thing, and which would be better to connect to?



Last, would normaling a vco out be as easy as to solder a wire to input jack leg? How do I make sure that patching will break a normal, or w added effort? And please remind me which one on a jack is signal input 😊 Many thanks!

X-fade input works the same on spring or brick.

On all the 3.5mm jacks, ring is ground. On the phono jacks for spring send/return the ring is NOT ground.

The 3.5mm socket has 3 pins - tip, ring, switch - it's pretty clear when you look at the bottom, and I'd check it with a multimeter. Attach tr unless anything is plugged into the socket.

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322

Location: London, England

<http://musicthing.co.uk/modular/>

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|

Pdm1138
Common Wiggle



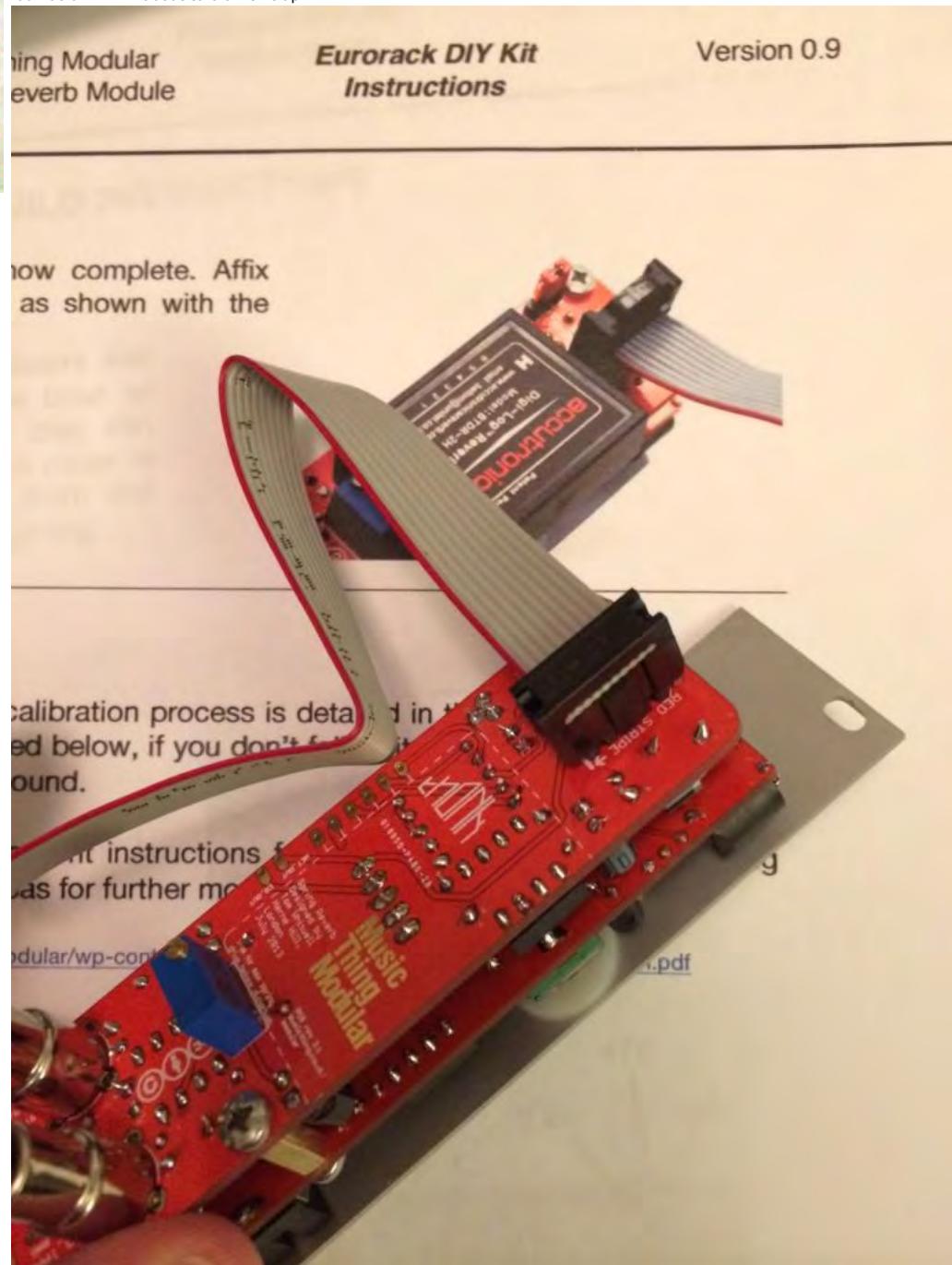
Joined: 24 Oct 2012
Last Visit: 01 Jan 2015



Posts: 226

Posted: Thu Feb 27, 2014 11:51 pm Post subject:

Need a little help. Just finished building and placed the power ribbon on the module with red stripe down. BUT, mine is oriented differently ! look below. Am I about to blow shit up?



[/img]

<https://soundcloud.com/pdm1138/billow>

<http://Bohm.Bandcamp.com>

<http://nebulotinklstab.bandcamp.com/track/fire-on-the-table>

[Back to top](#) [profile](#) [pm](#)

rico loverde
Super Deluxe Wiggle

Posted: Fri Feb 28, 2014 12:04 am Post subject:

always follow the markings on the pcb. -12 on pcb to -12 on power bus board. ribbon cables routinely get made wrong so never trust them cable preventing you from putting it in the correct way just slice it off with a razor.



-12 on pcb to -12 on power bus board or



edit: that does look right though, had to put on my glasses to make sure.

works for Darkplace Manufacturing

Joined: 06 Aug 2010
Last Visit: 21 Jan 2015



Posts: 3823

Location: Portland, Oregon

[Back to top](#)

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Pdm1138
Common Wiggle

Posted: Fri Feb 28, 2014 12:50 am Post subject:

Works beautifully. 

<https://soundcloud.com/pdm1138/billow>

<http://Bohm.Bandcamp.com>

<http://nebulotinklstab.bandcamp.com/track/fire-on-the-table>

Joined: 24 Oct 2012
Last Visit: 01 Jan 2015



Posts: 226

[Back to top](#)

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radiokoala
must. build. jacuzzi

Posted: Fri Feb 28, 2014 3:34 am Post subject:

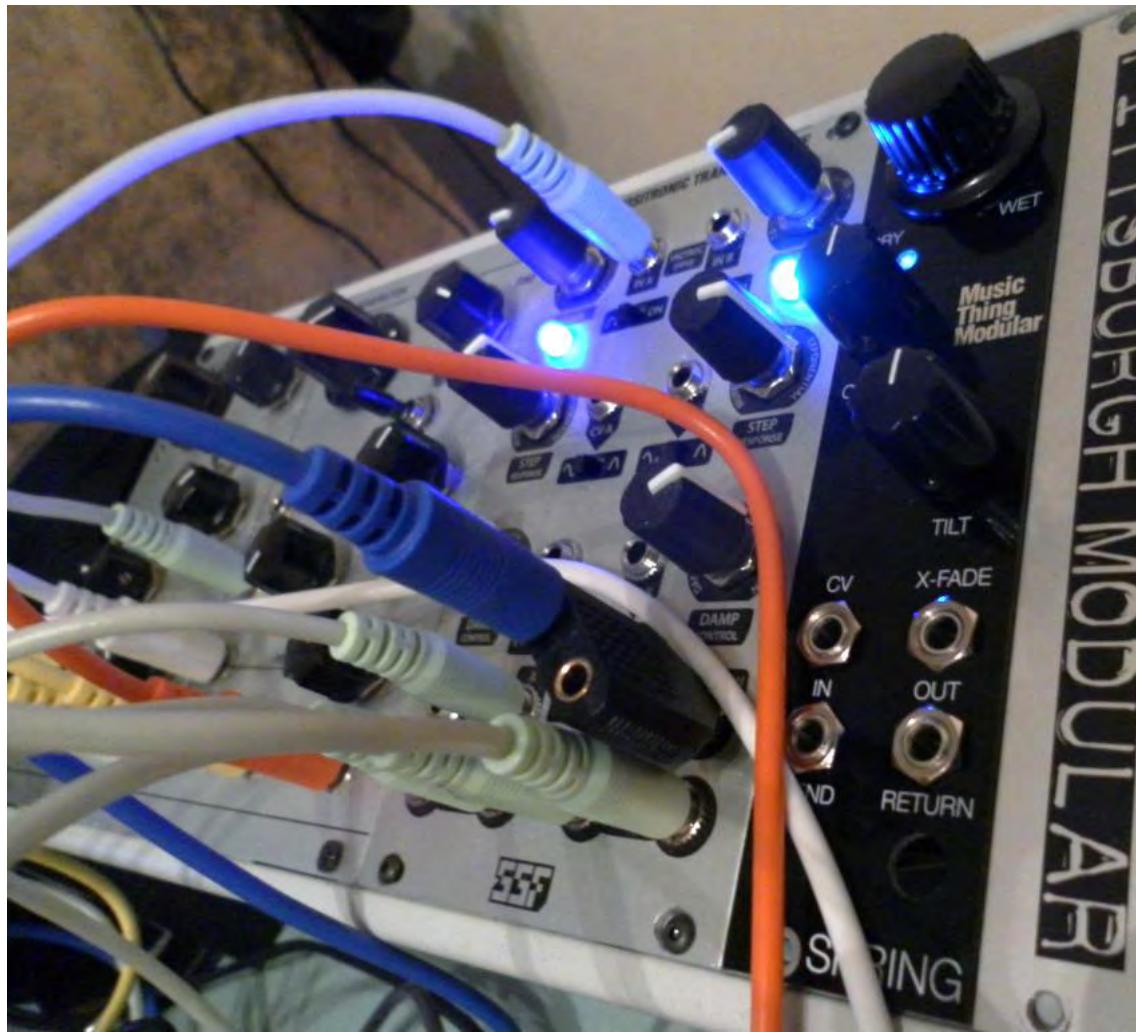
Looks GREAT in Black!



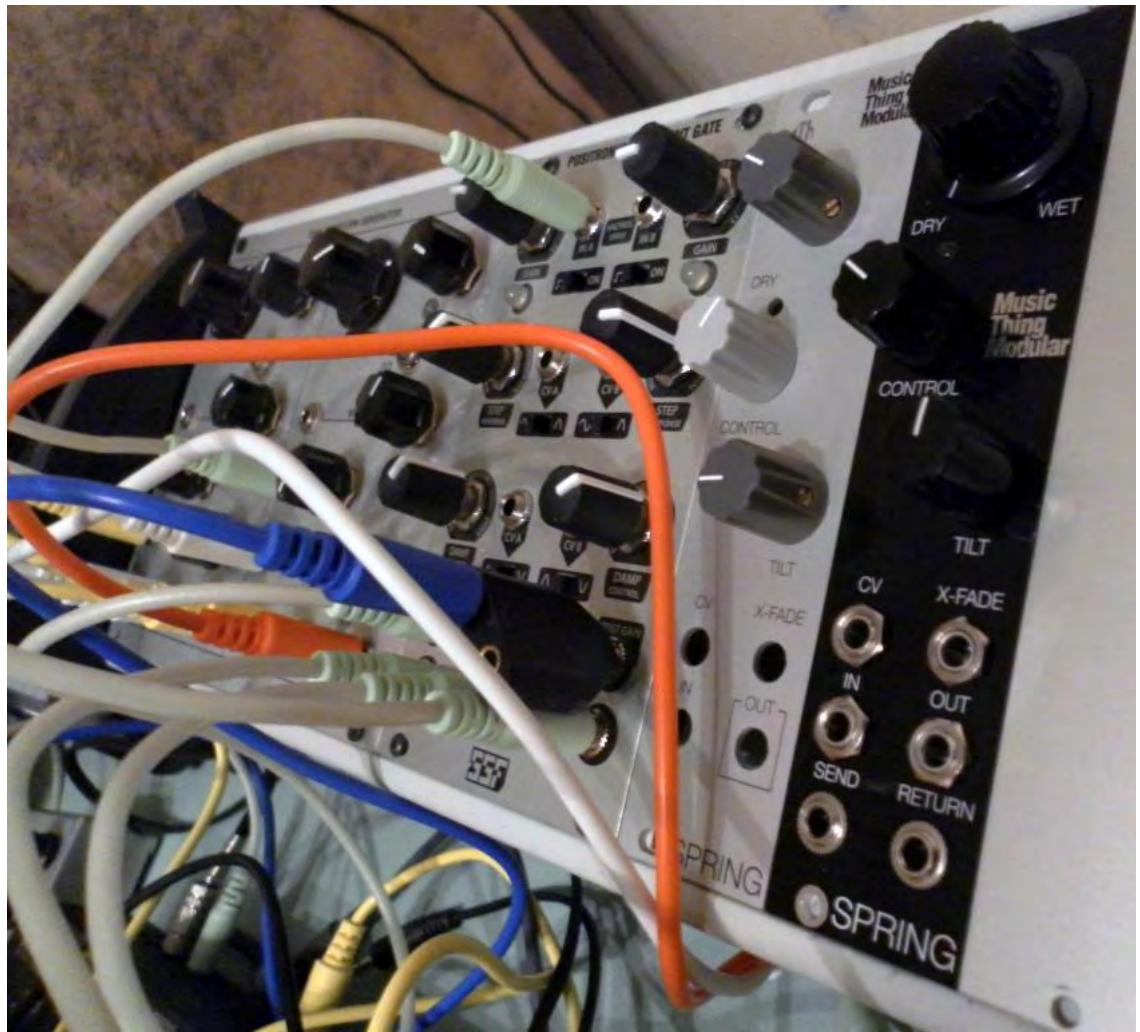
Joined: 18 Oct 2011
Last Visit: 22 Jan 2015



Posts: 1530



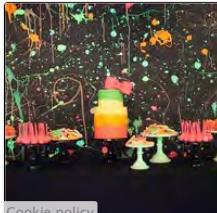
And... who doesn't want two! 



(Feel free to re-use the color scheme, by the way - this 'shades of grey' outfit is such a great find in my opinion 🎉)

All in all, I loved this black/aluminum combination so much I decided I should build synthrotek EKO too!.. 😊

Now, thank you Steve - as always happy with my order 🎉



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[Back to top](#)

JeremyLemos
Common Wiggler

Joined: 19 Jan 2012
Last Visit: 06 Jan 2015


Posts: 204
Location: Chicago

[Back to top](#)

Posted: Fri Feb 28, 2014 12:16 pm Post subject:

Has anyone tried to mount this inside a Doepfer 100 case?

<http://www.amazon.com/Accutronics-9EB2C1B-Reverb-Tank/dp/B0043FN4A6/>

<http://jeremylemos.com> - <http://acteu.rs>

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Posted: Fri Feb 28, 2014 12:28 pm Post subject:

JeremyLemos wrote:

Has anyone tried to mount this inside a Doepfer 100 case?

<http://www.amazon.com/Accutronics-9EB2C1B-Reverb-Tank/dp/B0043FN4A6/>

Physically it will be fine, but it's likely to pick up a fair bit of hum from the transformer.



That said, the hum will be a function of the exact position of the springs and the transformer. I found turning the springs through 90 degrees makes a difference

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322

Location: London, England

[Back to top](#)

Posted: Sat Mar 01, 2014 11:47 am Post subject:

Finished building yesterday and been wiggling all nite long

This thing is gorgeous !!

This is my first spring reverb and I love it so much.

The feedback patch with some filters in between gives total weirdness. A sound source on its own right, I dare to say. Cool indeed.

<http://poldenstein.bandcamp.com/album>

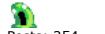
<http://gutturalgoats.bandcamp.com/album>

<https://soundcloud.com/pirupiruproject/aummaumma-live-jam-suite>

Posted: Sun Mar 02, 2014 4:52 pm Post subject:

I got the Belton equivalent of the accutronics 8EB2C1B. Works fine.

Joined: 04 Aug 2013
Last Visit: 22 Jan 2015



Posts: 254

Location: Italy

[Back to top](#)

airfrankenstein
Wiggling with Experience

Joined: 23 Dec 2013
Last Visit: 07 Jan 2015



Posts: 294

[Back to top](#)

Posted: Mon Mar 03, 2014 1:47 pm Post subject:

Hi Wigglers.

Finally got the time to test my build and sadly I have got a problem..

Please let me explain my situation:

- * Ordered PCB's from Thonk, build it sourcing my own parts (see attached bill of materials).
- * Using a VTL5C3, so $R7 = 47K$
- * Using a 9EB2C1B
- * Pots/ jacks & led wired via connectors (module will be used in a custom design finally).

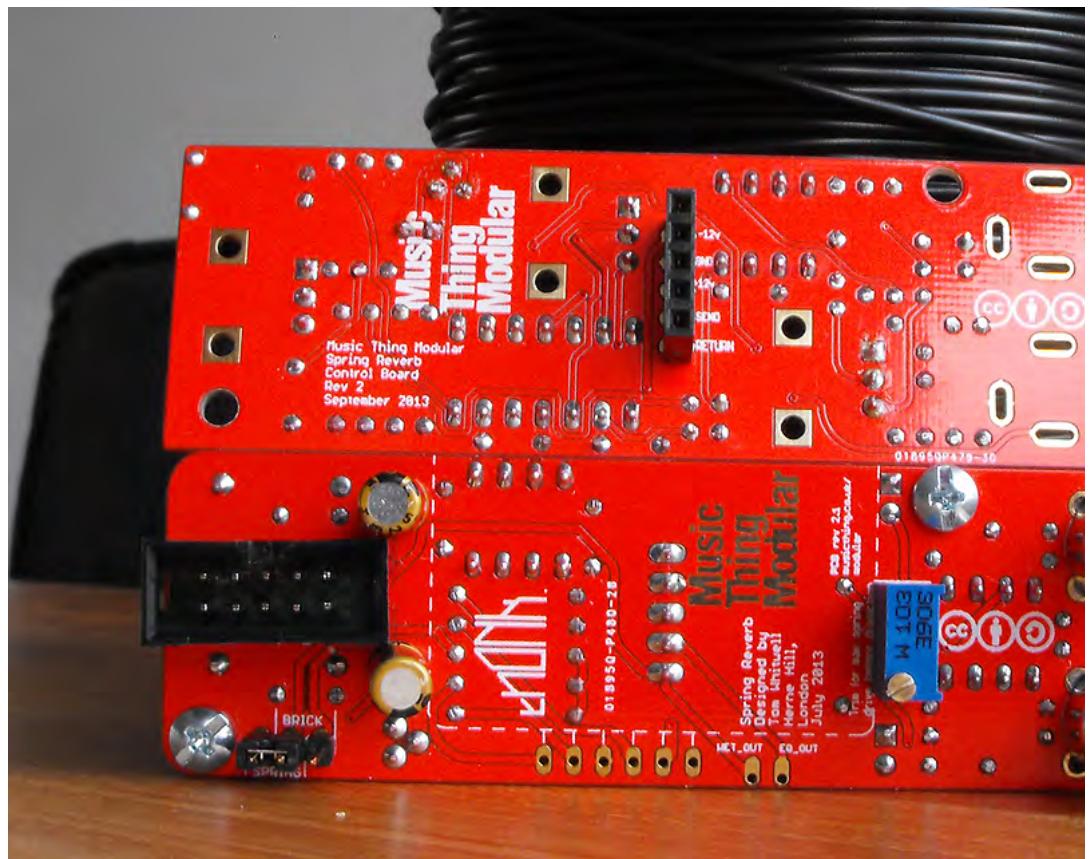
The problem I'm experiencing is that the spring tank doesn't blend into the mix. When I turn the blend level fully anticlockwise I just hear the fully clockwise the signal just got lower in volume gradually, no reverb added. Played a bit with trimmer R2 and at the end of fully clockwise noises but nothing in the audio signal. I already checked this afternoon the circuit for bad solder joints, correct parts and polarity, exchanged

The X fade & CV input seems to be working ok, but need some further testing when I have more time.

I have attached pictures from the PCB's. Hopefully somebody is able to help, as I'm still a newbie...

Reverb-02.jpg

Description:
Filesize: 791.03 KB
Viewed: 408 Time(s)



Reverb-01.jpg

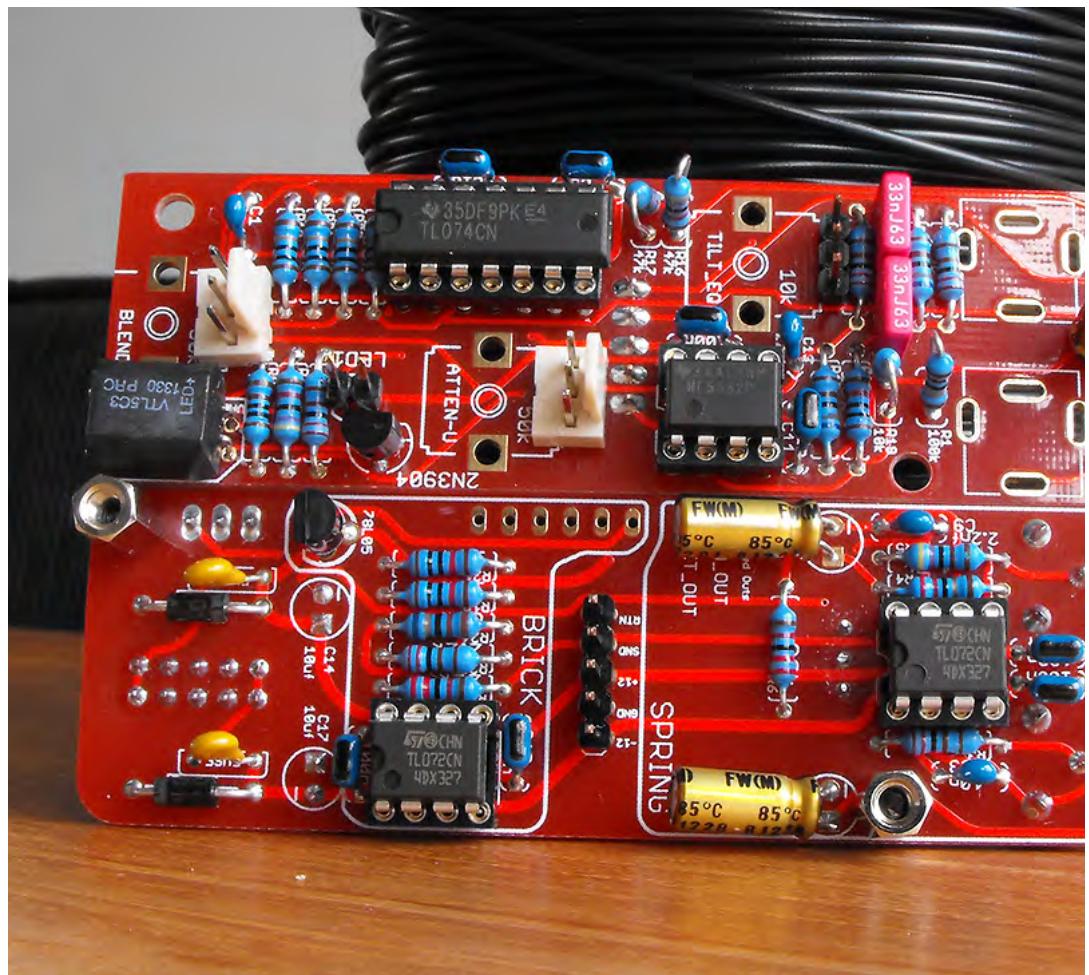
Description:

Filesize:

Viewed:

933.51 KB

408 Time(s)



SPRING REVERB parts.xls

Description:

Filename: SPRING REVERB parts.xls
 Filesize: 142 KB
 Downloaded: 0 Time(s)

[Back to top](#)

rosch
roadkill



Joined: 23 Dec 2010
 Last Visit: 07 Jan 2015

Posts: 627
Location: doucheland

[Back to top](#)

Jop
Common Wiggler

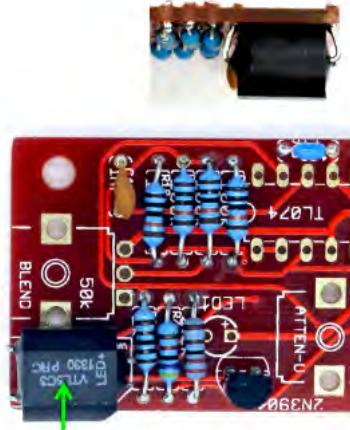
Joined: 28 Dec 2012
 Last Visit: 07 Jan 2015

Posts: 126
Location: The Netherlands

Description:

Filesize: 184.78 KB
 Viewed: 398 Time(s)

VTL5C3.png



NOTE! Do not heat this part excessively or you will damage it, you should be aiming to solder quickly to the top surface of the PCB and sit the Vacrol flat completely flat within the boundary of the PCB. The orientation of the 4 pins is vital. Next take the Vacrol from the Main Bag and solder into place as shown.

8.

[Back to top](#)

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a100user

All the gear, no idea!



Joined: 13 Mar 2008
Last Visit: 08 Jan 2015

Posts: 2811
Location: Southern England

[Back to top](#)

[Posted: Mon Mar 03, 2014 2:52 pm](#) Post subject:

Tank and brick delivered from Banzai today so I have everything needed

Last edited by a100user on Tue Mar 04, 2014 3:00 am; edited 1 time in total

Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

Posts: 1530

[Posted: Mon Mar 03, 2014 3:48 pm](#) Post subject:

@ **Jop**

hey mate, great and clean soldering there! 😊

let me say this:

this saturday I tested my return jack with vco input. you would assume it's the same thing as x-fade, but no! I found out there was not mu to why. I unplugged the cv modulation and manually tweaked the knob and found out that second signal was starting to appear only at 3 o knob turn all I could hear was the 'dry' signal (vco going to In). maybe there is a different sort of response in this circuit I'd describe as sup

I don't really think anything is wrong with your module - you might need to swap a few resistors, but I really don't think that because of yo assume you really know what you do. 😊

another version I had was I also sourced components myself and weirdly am in a similar situation, so I thought maybe it's to do with 5% re looked at your photo and yours are 1%... 😊



that's as much as I can say - hope for any of this to be helpful!





radiokoala
Birthday Session

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sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015

Posts: 7177
Location: Vortexexaion, TN, USA

Posted: Mon Mar 03, 2014 4:53 pm Post subject:

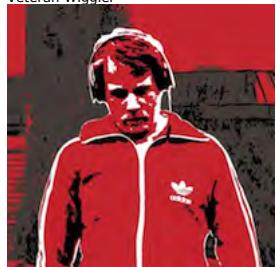
Jop - I'd guess there's some kind of connectivity problem with the tank. With mine, I had isolate the ground connection on the send - I use think this depends on the kind of tanks you have. Try a direct connection from those pads to the tank, see if that works.

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

[Back to top](#)

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solutud
Veteran Wiggler



Joined: 01 Dec 2011
Last Visit: 06 Jan 2015

Posts: 608
Location: Berlin

Posted: Tue Mar 04, 2014 12:27 pm Post subject:

Great kit, like this thing very much, especially the EQ and CV control!
Only thing: I would like to have a little longer reverb tail.
I have build the Spring version with an Accutronics 8EB2C1B.
Sorry if already discussed to death, would the Accutronics 9EB2C1B increase the reverb time significantly?

Jop wrote:

Hopefully somebody is able to help, as I'm still a newbie...

Jesus, noob? You have soldering skillz like a japanese industrial robot.

www.modulargrid.net

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Tue Mar 04, 2014 2:19 pm Post subject:

yeah your soldering is a lot better than mine in the build manual Jop 😊

Thonk - Modular Synth DIY + Eurorack Accessories Store

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Jop
Common Wiggler

Joined: 28 Dec 2012
Last Visit: 07 Jan 2015

 Posts: 126
Location: The Netherlands

Posted: Tue Mar 04, 2014 3:20 pm Post subject:

Thanks everybody for you kind words and advice, I hope I can do something in return in the future for you 😊

I just try to be as precise as possible and really take my time during the build. Hopefully this results in clean prints and less trouble shootin

Today during my break at work I got a bright idea to double check the jacks (because I did not mount them on the board), and especially t diagram from Tom this is the first point after the tank, and if something is plugged into this jack the reverb is cancelled. So I thought the re jack. Voila, just put a wire between the connection on the print and the Xfade jack and reverb was born!

This was really an educational experience, and it feels great to find the root cause in the end (with help from you!).

[Back to top](#)



Jop
Common Wiggler

Joined: 28 Dec 2012
Last Visit: 07 Jan 2015

 Posts: 126
Location: The Netherlands

Posted: Tue Mar 04, 2014 3:50 pm Post subject:

One thing I forgot to mention:

I have used a normal LED instead of a superbright one and noticed that the brightness is not optimal, can I do something about this (chang superbright one?)

Thanks.

[Back to top](#)



radiokoala
must. build. jacuzzi



Joined: 18 Oct 2011
Last Visit: 22 Jan 2015

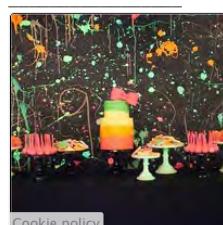
 Posts: 1530

Posted: Wed Mar 05, 2014 3:38 am Post subject:

Funny you mention putting a wire - I had the same to happen to me during troubleshooting sympleseq I built. I checked with multimeter ar going to cv & gate pads from the header connections. Firat few minutes I was thinking as to what was the reason, but then thought I don't points! 😊

As to led, superbright = simply white. I don't think there are 'usual' white and superbright white - well maybe I'm recalling it incorrectly, bu then 100% change the led, it affects how the circuit works I'm afraid.

PS: regarding brightness, mine is superbright indeed.



 radiokoala
Birthday Session



/ Analog & modular videos /
Soundcloud

[Back to top](#)



Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

Posted: Wed Mar 05, 2014 3:49 am Post subject:

yeah the advice from tombola is don't change the current limiting resistor on the led to change the brightness, it'll also affect the vactrol re response.

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Back to top](#)



ootini
Ultra Wiggler



Posted: Wed Mar 05, 2014 3:52 am Post subject:

swapping out for a different led should be fine though? I've been meaning to do this for a while actually...

<http://furtherrecords.org/album/sample-hold>

Joined: 23 Mar 2010

Last Visit: 07 Jan 2015



Posts: 829

Location: Dublin, Ireland

[Back to top](#)

Monobass

thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287

Location: Brighton, UK

[Back to top](#)

Jop
Common Wiggler

Joined: 28 Dec 2012
Last Visit: 07 Jan 2015



Posts: 126
Location: The Netherlands

[Back to top](#)

jgb
Wiggling with Experience



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015



Posts: 313
Location: Göteborg, Sweden

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Jop
Common Wiggler

Joined: 28 Dec 2012
Last Visit: 07 Jan 2015



Posts: 126
Location: The Netherlands

[Back to top](#)

noisefor
Common Wiggler



Joined: 24 Mar 2011
Last Visit: 23 Dec 2014



Posts: 194
Location: Oakland

[Back to top](#)

sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015

[D Post subject:](#)

Jop wrote:

Is it normal that the signal from the input is always there regardless of the blend setting?

Yes. If you need the wet signal by itself to control the mix differently, it's available on the pcb.

Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube



Posts: 7177
Location: Vortexexiaon, TN, USA

[Back to top](#)

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Jop
Common Wiggler

Joined: 28 Dec 2012
Last Visit: 07 Jan 2015



Posts: 126
Location: The Netherlands

[Back to top](#)

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regenbot
Super Deluxe Wiggler



Joined: 21 Aug 2010
Last Visit: 22 Jan 2015



Posts: 1029
Location: Finland

[Back to top](#)

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Devi
Learning to Wiggle

Joined: 07 Oct 2013
Last Visit: 07 Jan 2015



Posts: 32

[Back to top](#)

[profile](#) | [pm](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

[Back to top](#)

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Devi
Learning to Wiggle

[Posted: Tue Mar 11, 2014 10:47 am Post subject:](#)

Quote:

Yes. If you need the wet signal by itself to control the mix differently, it's available on the pcb.

Thanks! Missed that one....

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[Posted: Mon Mar 10, 2014 11:44 am Post subject:](#)

Could i use A10k log pot for the EQ-tilt? I wonder how much it would hurt the response in this application.

sounds

drawings

free music

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[Posted: Tue Mar 11, 2014 4:48 am Post subject:](#)

Hi guys!

I testet mine whit a tank accutronics model 4fb2a1c. it works with many problems .. so now i bought the reccomended Accutronics 9EB2C1

someone has a similar problem?

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[Posted: Tue Mar 11, 2014 4:57 am Post subject:](#)

Devi can you give us a little information on exactly what configuration you have built?
Did you follow the instructions for modifying the jack sockets in the build manual? Did you note the point about the tank phono connections rail?

Thonk - Modular Synth DIY + Eurorack Accessories Store

[Posted: Tue Mar 11, 2014 5:18 am Post subject:](#)

regenbot wrote:

Could i use A10k log pot for the EQ-tilt? I wonder how much it would hurt the response in this application.

This pot is 'reset' at midnight (50% position, 50% resistance for linear), so if you use a log pot you'll end up with your zero point somewhere position, 50% resistance for log) it'll 'work' but not advised really 😊

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[Posted: Tue Mar 11, 2014 5:20 am Post subject:](#)

Joined: 07 Oct 2013
Last Visit: 07 Jan 2015



[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Location: Brighton, UK

i did a (Type 1) PCB mounted phono jacks for the spring reverb tank on the back.
Yes i did the modifying on the jack sockets and the tank phono connections are not touching.

it's strange because whit the 4fb2a1c is doing like a distorted Tremolo and whit the reccomended one nothing...

thx for the fast replay

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Posted: Tue Mar 11, 2014 5:22 am Post subject:

ok, can you post high res pictures of both sides of both PCBs?

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[Back to top](#)

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Devi
Learning to Wiggle

Joined: 07 Oct 2013
Last Visit: 07 Jan 2015



[Back to top](#)

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Devi
Learning to Wiggle

Joined: 07 Oct 2013
Last Visit: 07 Jan 2015



[Back to top](#)

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Location: London, England

[Back to top](#)

Posted: Tue Mar 11, 2014 7:00 pm Post subject:

regenbot wrote:

Could i use A10k log pot for the EQ-tilt? I wonder how much it would hurt the response in this application.

I had a spare log pot in that position on my breadboard for quite a while when I was developing the circuit. It was quite annoying - the mid OK, but I wouldn't recommend it!

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®



Joined: 08 Feb 2012
Last Visit: 07 Jan 2015



Location: NY Metro area

A few quick ones...

What effect (if any) does a less or greater fwd'ing LED have on the Vactrol response?

Is there anyway to get MORE reverb. I'm fairly certain that I've got the correct values in but the mix is more like 100% full CCW and 60%/ still had the audio in at 60% of what it was fully to the left. You can definitely hear the reverb but it's at about "3" on a scale from 1 .. 10.

I've got another board set and components and will hit it again tomorrow to see if I get a different result. I've swapped out ALL ICs and scr experience, the grounds on send/return DO need to be connected but certainly to the pinouts (since I'm not using integrated jacks) and cer

Also found that I had to wire the normalled jack on X-fade to Return as somebody pointed out above.

Beware of programmers with screwdrivers...

[Back to top](#) [profile](#) [pm](#)**sduck**
WTF?Joined: 18 Feb 2009
Last Visit: 22 Jan 2015Posts: 7177
Location: Vortexexiaon, TN, USA

Posted: Wed Mar 12, 2014 1:11 am Post subject:

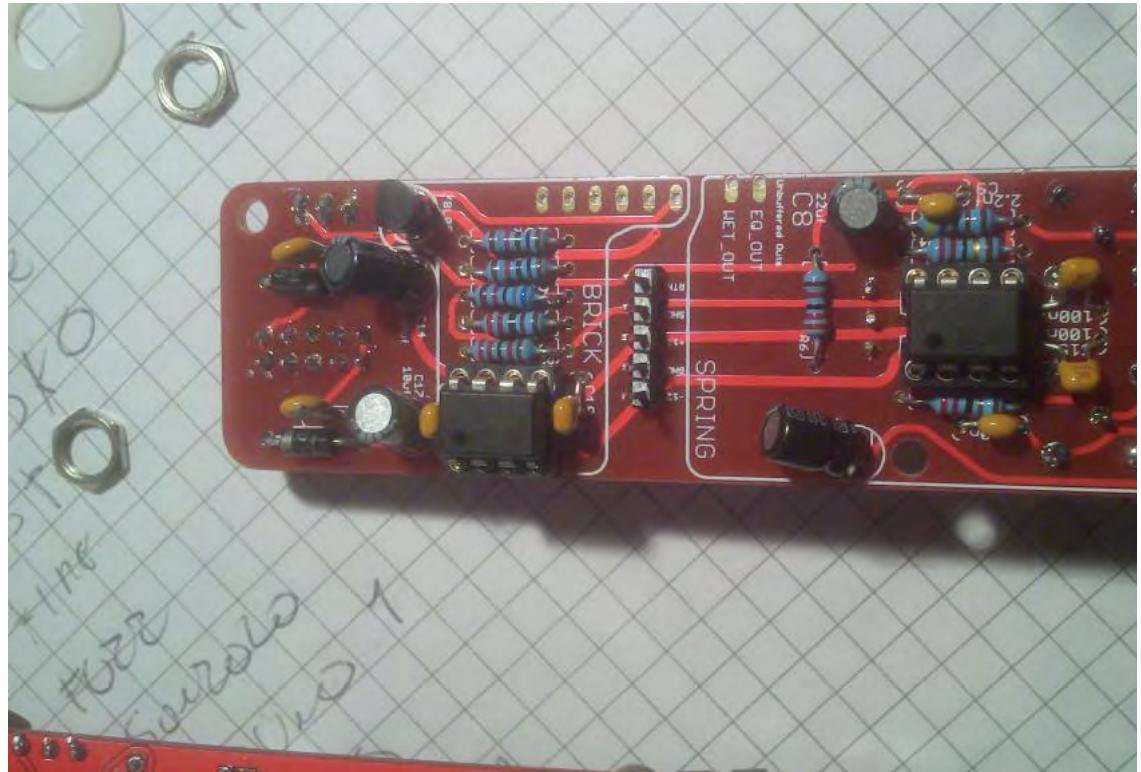
You can get a fully wet signal from the pads provided on the pcb. Then mix with the dry signal externally to your taste. Although it sounds I have you adjusted the trimmer correctly? If it's set right you should get a strong reverb signal, enough that you don't mind the dry signal t

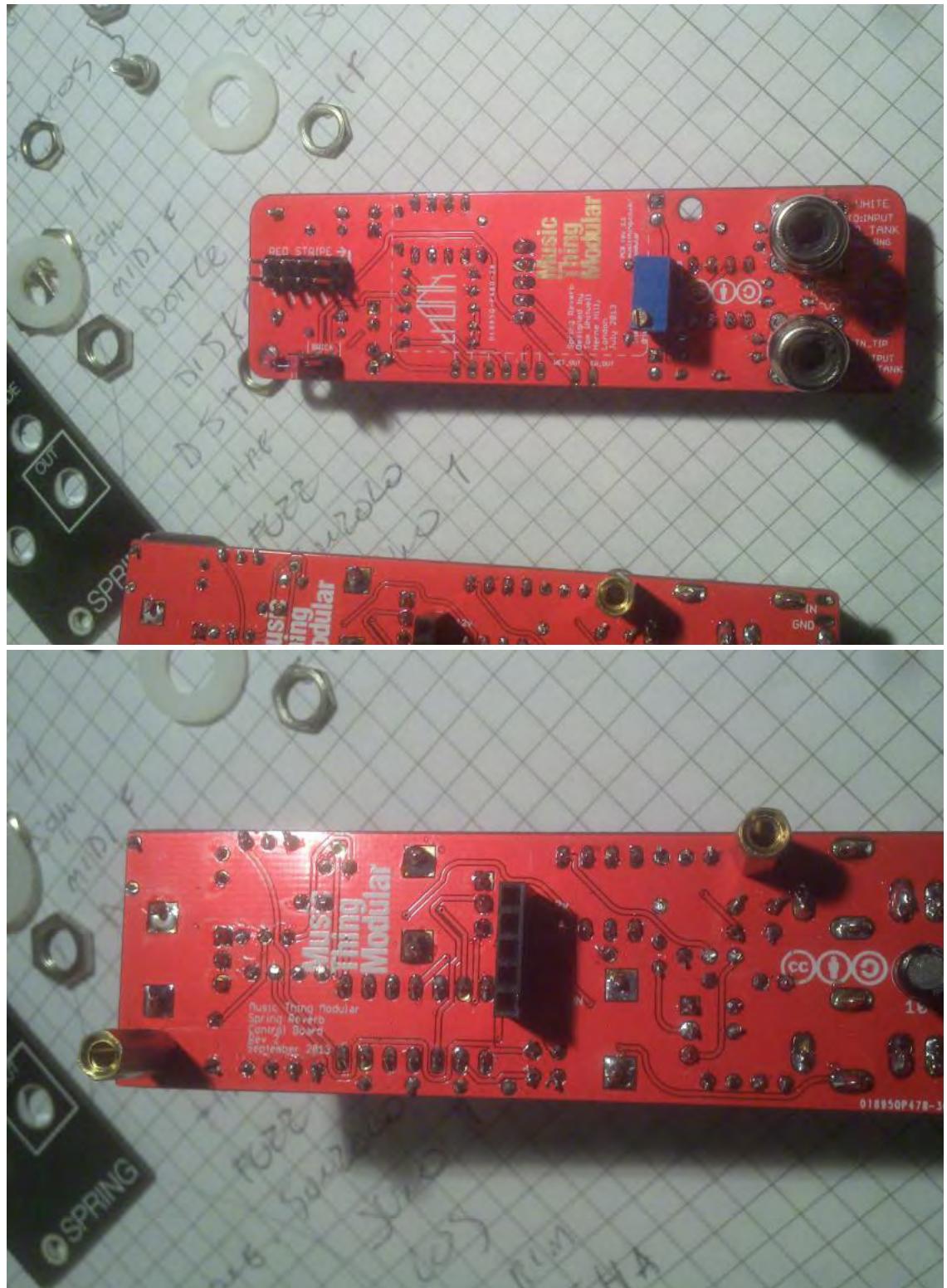
Listen. Strange women lying in ponds distributing synths is no basis for a system of government. Supreme executive power derives from a mandate from the masses, not from some farc flickr cloud of sound touyube

[Back to top](#) [profile](#) [pm](#)**Devi**
Learning to WiggleJoined: 07 Oct 2013
Last Visit: 07 Jan 2015

Posts: 32

Posted: Wed Mar 12, 2014 4:24 am Post subject: high res pictures





Picture file[/img]

[Back to top](#)

Devi

Learning to Wiggle

Joined: 07 Oct 2013
Last Visit: 07 Jan 2015

Posts: 32

Posted: Wed Mar 12, 2014 5:18 am Post subject:



[Back to top](#)

Ginko

Super Deluxe Wiggler



Posted: Wed Mar 12, 2014 5:47 am Post subject:

So I have noticed something odd - if I turn the dry/wet control on the spring reverb, sometimes it makes my Turing machine lose lock mon never to be found again sequence - any ideas on this? Something to do with power supply perhaps?

<http://www.aidanrichardtaylor.wordpress.com>

<https://aidanrichardtaylor.bandcamp.com/album/prototype>

Seeking the perfect wave

Joined: 18 Jul 2013
Last Visit: 04 Jan 2015

Posts: 1391
Location: Newport, Wales

[Back to top](#)

Monobass

thonk.co.uk



Posted: Wed Mar 12, 2014 10:17 am Post subject:

Devi do you have the one of the top side of the other board with vactrol?

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

Tombola
Super Deluxe Wiggler

Posted: Wed Mar 12, 2014 10:26 am Post subject:

Devi wrote:





Have you checked that the two transistor-like objects are the right way around - the power regulator on the back board, the transistor on t

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

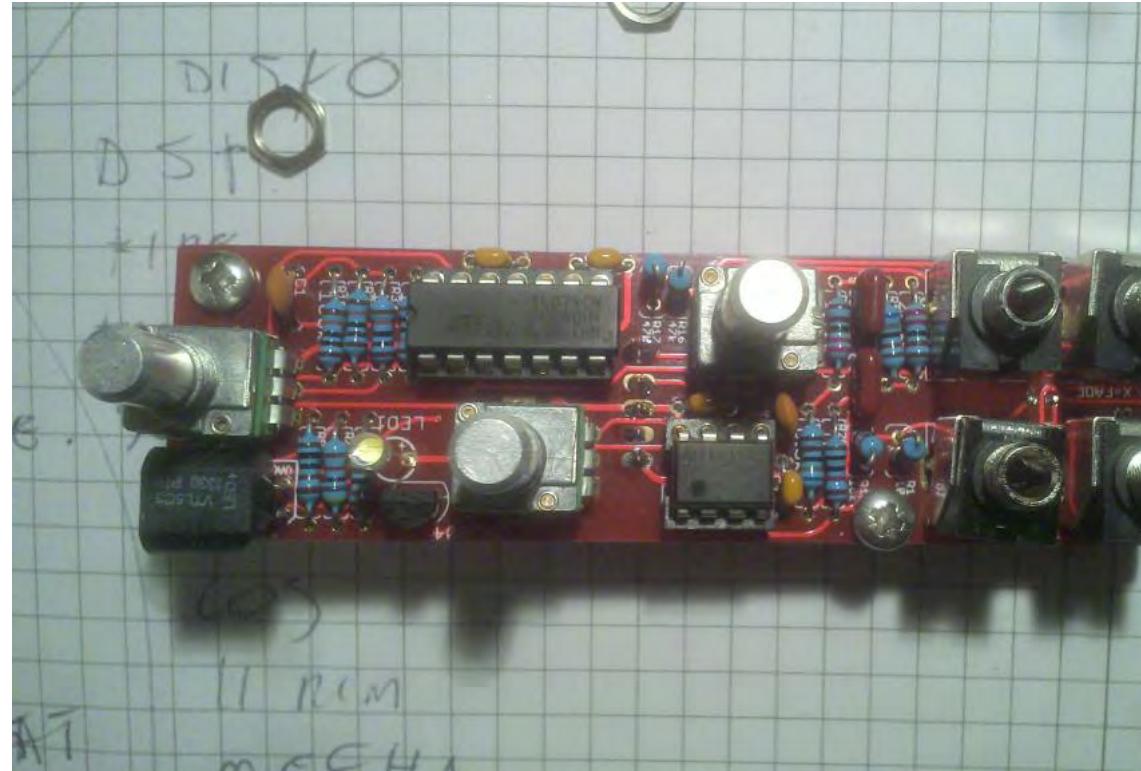
Devi
Learning to Wiggle

Posted: Thu Mar 13, 2014 5:58 am Post subject:

Joined: 07 Oct 2013
Last Visit: 07 Jan 2015



Posts: 32



[Back to top](#)

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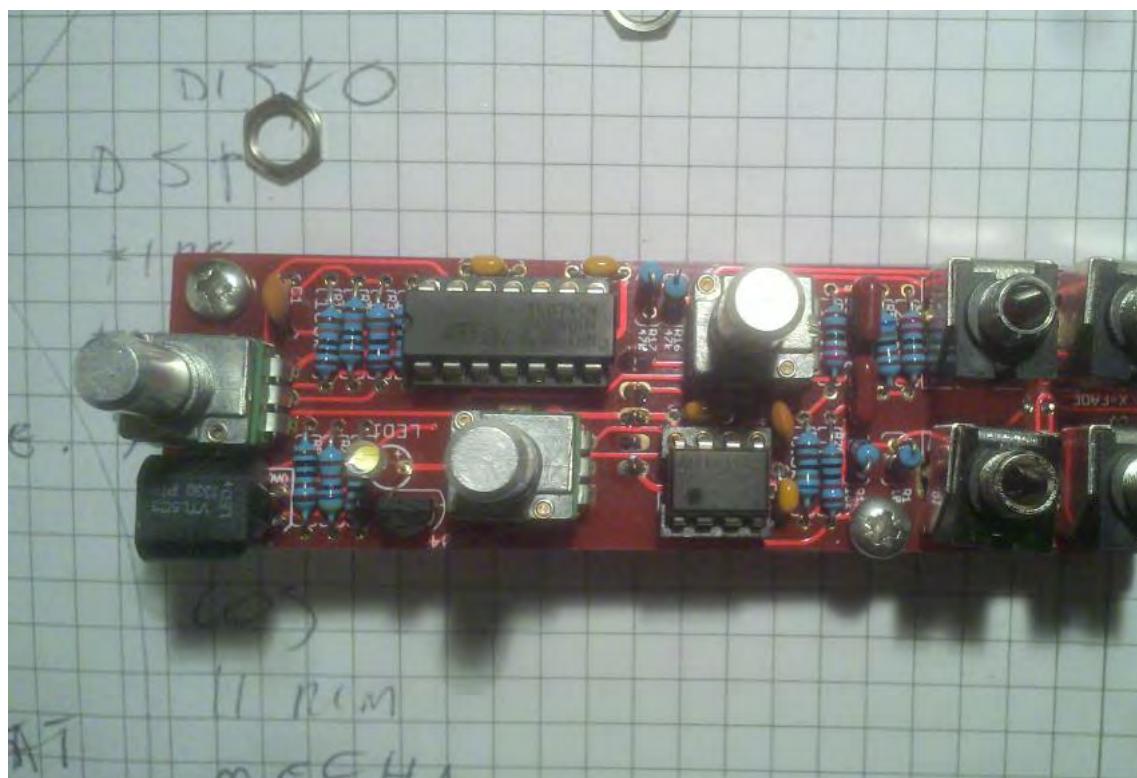
Devi
Learning to Wiggle

Joined: 07 Oct 2013
Last Visit: 07 Jan 2015

 Posts: 32

Posted: Thu Mar 13, 2014 6:01 am Post subject: top side

Tombola checked and double checked...



[Back to top](#)

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jgb
Wiggling with Experience


Joined: 07 Nov 2010
Last Visit: 22 Jan 2015


Posts: 313
Location: Göteborg, Sweden

Posted: Thu Mar 13, 2014 7:03 am Post subject:

Do you have an oscilloscope? Either hardware or software. Check if you get any signal sent to the tank to start with.

What happens if you play around with the springs manually? Do you get any sound?

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Devi
Learning to Wiggle

Joined: 07 Oct 2013
Last Visit: 07 Jan 2015


Posts: 32

Posted: Thu Mar 13, 2014 8:41 am Post subject:

whit a tank accutronics model 4fb2a1c. it works with many problems, whit the recommended Accutronics 9EB2C1B nothing happens also if

[Back to top](#)

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Monobass
thonk.co.uk

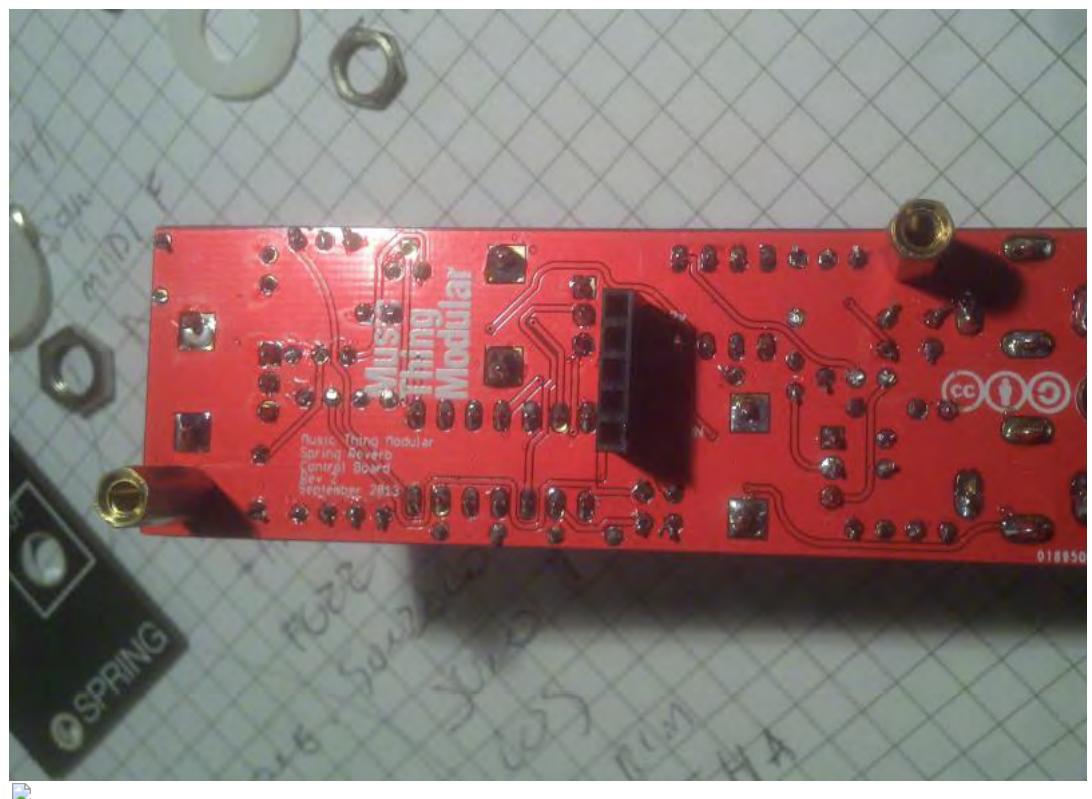


Joined: 29 May 2009
Last Visit: 06 Jan 2015


Posts: 8287
Location: Brighton, UK

Posted: Thu Mar 13, 2014 12:08 pm Post subject:

Devi wrote:



Devi the thing that concerns me looking at the boards is that you are never getting any solder flow on the top of the board, ideally you shot the board, sometimes the ones on the top won't look as good as the bottom... but really if the solder is flowing well then some of them will

Then on the bottom of the board there are some joints, such as the vactrol joints (the top right of the top photo above), which barely look like some of them almost look burnt, it's hard to tell as the lighting isn't so good on the photos and the focus is off.

I'd suggest removing the IC's and reflowing the solder on most of joints, you should be seeing nice shiny joints and like the shot below, you too.

If you can't get joints like that I'd suggest buying a better iron as you will easily wreck the board.

This image is a good example of good solder flow on the top of the board - http://www.muffwiggler.com/forum/files/reverb_01_700.jpg

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[Back to top](#)

[!\[\]\(806e4b9747ea092b5900690a40846ea0_img.jpg\) profile](#) [!\[\]\(32863ef9ee2d3315f9b654c28e328668_img.jpg\) pm](#) [!\[\]\(6afa93ef40e55a8f0b4b6ae465f4552f_img.jpg\) email](#)

EMwhite
Super Deluxe Wiggler



Joined: 08 Feb 2012
Last Visit: 07 Jan 2015

 Posts: 1602
Location: NY Metro area

Posted: Fri Mar 14, 2014 2:30 pm Post subject:

Curious to hear if those of us 'troubleshooting' issues with low or no Reverb output are messing with off module jacks vs. the type prescribed.

Interestingly or not, my issues at the moment are simply:

- low output of the reverb in the mix
- the fact that the mix is not very equitable meaning that it's not a 50/50 between and mostly if not all dry or wet at either end as I would like.

To be fair, I am NOT using the LED that was prescribed on the Mouser BOM so may switch back to that.

I don't know if 15V was responsible for blowing my LED or sloppiness if I shorted it during one of the many plugging/unplugging during test troubleshooting the non-working (anything) only to find out that if the LED blows, the Vactrol does nothing; After switching all ICs, putting turned out to JUST be the blown LED.

For the record I ran this at 12V and 15V to similar result.

And for the record (also), need to determine if the tank isn't being driven enough, or if the recover FROM the tank is not being dealt with properly that knocking/banging on the tank doesn't do much of anything as I would expect it to.

I built Tom's first schematic a good 18 months ago (iirc) and it was a) noisy but b) LOUD. This was laid out on a generic schmartboard and with a shared ground when I did that but eventually figured it out.

I'm convinced that if I had more push (without blowing up) the Vactrol circuit, that the mix would be more of where I would expect. But I can't figure out why the circuit (one as "in" and the second as x-fade) comes a lot closer to being 50/50 split through it still goes from 100% 'dry' to something

(just some thoughts)

Beware of programmers with screwdrivers...

[Back to top](#)

[!\[\]\(293d6c0c601535677ca62d67c9925848_img.jpg\) profile](#) [!\[\]\(5300f386a3072cefbaa74ef5e9dc3f05_img.jpg\) pm](#)

bartleby
Veteran Wiggler

Posted: Sun Mar 23, 2014 1:55 am Post subject:

Joined: 20 Oct 2010
Last Visit: 21 Jan 2015



Posts: 738

Location: berlin

just built mine yesterday: excellent documentation, very straightforward build - as always with music thing/thonk kits! ☺

and the module sounds eye-wateringly beautiful with an 8-size accutronics tank!

just one thing: the crossfader doesn't work quite as expected. even with the 'blend' knob turned all the way cw, there is still some dry sign: direction, with 'blend' all the way ccw, it's fine, no wet/crossfade signal on the output.
at first i thought i must have made some mistake while building the crossfade circuit, but then i saw that other people here are reporting th

is there any way to modify the crossfader to get it to properly crossfade between 100% dry and 100% wet? that would be great, espceiall between two external signals (i.e. when using it as a crossfader instead of reverb driver).

wtb (eu): dixie, doepfer a-133, es disting, ryk m185.

[Back to top](#)

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makers
Wiggling with Experience



Joined: 20 Mar 2013
Last Visit: 04 Jan 2015



Posts: 429

Location: South Carolina, US

[Back to top](#)

□ Posted: Sun Mar 23, 2014 11:46 am Post subject:

EMwhite wrote:

- low output of the reverb in the mix
- the fact that the mix is not very equitable meaning that it's not a 50/50 between and mostly if not all dry or wet at either end as I would ex

FWIW, this is similar what mine was doing when I was using front panel RCA's and did not have a good ground connection on those RCA co

Edit: i just spent a few hours problem solving a unit built by a student in my modular synth class. He had accidentally switched two resistor and 22 K). This mistake made the Spring Return very quiet.

Sounds: <http://moffenzeef.bandcamp.com>

Last edited by makers on Sat Mar 29, 2014 3:37 am; edited 1 time in total

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bsmith
Super Deluxe Wigglar



Joined: 07 Jan 2010
Last Visit: 07 Jan 2015



Posts: 2631

Location: Dallas

[Back to top](#)

□ Posted: Tue Mar 25, 2014 2:32 pm Post subject:

Popped for pcb and panel from thonk and am gathering thingies to build with. Going to do a breakout switch to pop between brick and tank decay from smallbear, have a 9EB2C1B in my amazon cart I'm about ready to order I think after a bit more poking around to look at optior belton that has any audio examples up?

On the music thing site it says the pots in that mouser bom are less than ideal for this project - anyone have mouser part #'s for more suit

edit: nevermind on the pots - these dudes right?

<http://www.smallbarelec.com/servlet/Detail?no=1139>

Also, in the bom there are 2 pairs of rca phono connectors - are the 502-3501FPX only needed for folks doing rca jacks on the front?

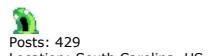
Youtube Stuff | Soundcloud

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makers
Wiggling with Experience



Joined: 20 Mar 2013
Last Visit: 04 Jan 2015



Posts: 429

Location: South Carolina, US

[Back to top](#)

□ Posted: Sat Mar 29, 2014 3:39 am Post subject:

bsmith wrote:

edit: nevermind on the pots - these dudes right?
<http://www.smallbarelec.com/servlet/Detail?no=1139>

Also, in the bom there are 2 pairs of rca phono connectors - are the 502-3501FPX only needed for folks doing rca jacks on the front?

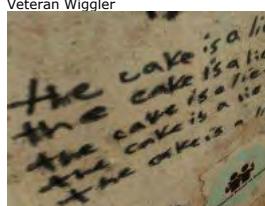
Those pots are correct.

You only need one pair of RCA jacks- type choice depends upon Front /rear build. The type you listed are for the front panel build.

Sounds: <http://moffenzeef.bandcamp.com>

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daluxer
Veteran Wigglar



Joined: 17 Nov 2012
Last Visit: 07 Jan 2015



Posts: 721

□ Posted: Wed Apr 09, 2014 9:05 am Post subject:

I just noticed my spring verb outputs some white noise when full wet. Any idea what could be wrong? thanks

Location: Berlin

[Back to top](#)

ray
Common Wigglie



Joined: 06 Jan 2010
Last Visit: 06 Jan 2015

Posts: 93
Location: cologne, germany

[Back to top](#)

Posted: Wed Apr 09, 2014 9:41 am Post subject:

How loud is the noise compared to the signal?
And is it noisy if you disconnect the spring tank?
And what type of tank so you use? Code Number?

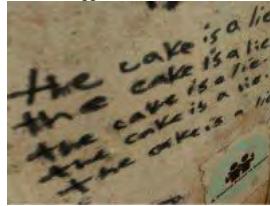
my grid: <http://www.modulargrid.net/e/racks/view/113717>

Joined: 06 Jan 2010
Last Visit: 06 Jan 2015

Posts: 93
Location: cologne, germany

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daluxer
Veteran Wigglie



Joined: 17 Nov 2012
Last Visit: 07 Jan 2015

Posts: 721
Location: Berlin

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Posted: Wed Apr 09, 2014 9:57 am Post subject:

oh yup. forgot to add some info :

digital brick. noise pretty quiet compared to the signal but hearable. So probably this is a normal behaviour.

cheers

Joined: 17 Nov 2012
Last Visit: 07 Jan 2015

Posts: 721
Location: Berlin

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bartleby
Veteran Wigglie

Joined: 20 Oct 2010
Last Visit: 21 Jan 2015

Posts: 738
Location: berlin

[Back to top](#)

Posted: Wed Apr 09, 2014 12:28 pm Post subject:

bartleby wrote:

is there any way to modify the crossfader to get it to properly crossfade between 100% dry and 100% wet? that would be great, especially if crossfade between two external signals (i.e. when using it as a crossfader instead of reverb driver).

anybody at all?

wtb (eu): dixie, doepfer a-133, es disting, ryk m185.

[Back to top](#)

Stinktier86
Veteran Wigglie



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

Posted: Wed Apr 09, 2014 2:39 pm Post subject:

So, i've got a nice 4 hp expander panel for two spring reverb modules. There's eight pre-drilled holes. Three occupied by each 'channel' - br to do with the two other holes? Any ideas?

For example, could a switch act as a 'dummy' plug for the x-fade, making it act more as a vactrol controlled amp?

Any other suggestions?

Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

bsmith
Super Deluxe Wigglie



Joined: 07 Jan 2010
Last Visit: 07 Jan 2015

Posts: 2631
Location: Dallas

Posted: Wed Apr 09, 2014 8:37 pm Post subject:

This thing sounds great! Using both tank and brick here - wanted to ask - the calibration calls for having tilt at center and trimming just int fine - however, wanted to ask: when I then pull tilt counter-clockwise I do get a bit of distortion still. Is this normal, or is there something I at about 9 o'clock and above, but get that rumbley distortion below that. This happens with both tank and brick. It's really not that bad, and not normal for the distortion with tilt full counterclockwise would love to fix.

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Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

[profile](#) | [pm](#)

ray
Common Wiggler



Joined: 06 Jan 2010
Last Visit: 06 Jan 2015

Posts: 93
Location: cologne, germany

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Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741
Location: Gothenburg, Sweden

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bsmith
Super Deluxe Wiggler



Joined: 07 Jan 2010
Last Visit: 07 Jan 2015

Posts: 2631
Location: Dallas

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jgb
Wiggling with Experience

Posted: Thu Apr 10, 2014 5:57 am Post subject:

Stinktier86 wrote:

You could trim it a bit further back. I'd suggest trimming with the tilt set at the most distortion sensitive point.
The drawback is that you'll get slightly less good signal to noise ratio. This is a conflict of goals. If you're (if your ears are) fine with the signal a bit further, i'd suggest to go with it.

The accumulative noise of having recorded say 24 channels might be a nauseous experience, but then again you could re-trim before such a reverb to an aux group rather than to each single channel is common outboard practice.

Posted: Thu Apr 10, 2014 2:54 am Post subject:

bsmith wrote:

...when I then pull tilt counter-clockwise I do get a bit of distortion still. Is this normal, or is there something I should look at? It sounds great above, but get that rumbley distortion below that. This happens with both tank and brick. It's really not that bad, and I'm probably being persnickety. The distortion with tilt full counterclockwise would love to fix.

I did expect the same behaviour with a spring tank. If I adjusts the level to have no distortion, the wet signal is a little bit too quiet, compared to normal.

my grid: <http://www.modulargrid.net/e/racks/view/113717>

Posted: Thu Apr 10, 2014 3:45 am Post subject:

I forgot that the signal level would have to be compensated somehow in the recovery circuit for the distortion vs. Noise-balance to be true. Quietness, as described above.

Having a strong as possible signal coming to the tank exciter is also favourable for other reasons, such as the ratio between pure signal and interference/hum.

With good isolation measures, there should be no harm in backing down the trim a little bit further.

Posted: Thu Apr 10, 2014 5:57 am Post subject:

Allright - well, like I say, it's really just with the tilt darker than I'd likely have it set in normal usage that I'm getting distortion - from around other people get distortion with it tilted to the left when trimmed to no distortion with tilt centered...

[Youtube Stuff](#) | [Soundcloud](#)

Posted: Thu Apr 10, 2014 5:57 am Post subject:

Stinktier86 wrote:



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015

Posts: 313
Location: Göteborg, Sweden

So, i've got a nice 4 hp expander panel for two spring reverb modules. There's eight pre-drilled holes. Three occupied by each 'channel' -bric! What to do with the two other holes? Any ideas?

For example, could a switch act as a 'dummy' plug for the x-fade, making it act more as a vactrol controlled amp?

Any other suggestions?

Well... I would love to be able to send the output from the spring to the brick, and the other way around. Probably requires some level adj.

In addition to that, stereo out from the brick since it is available (mixed to mono by default)

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bsmith
Super Deluxe Wiggle



Joined: 07 Jan 2010
Last Visit: 07 Jan 2015

Posts: 2631
Location: Dallas

Posted: Thu Apr 10, 2014 7:12 am Post subject:

There's a 2.2uF electrolytic in the music thing bom - is this just a booboo? Not seeing where it would be used or any mention of it in any bu

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Stinktier86
Veteran Wiggle



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741
Location: Gothenburg, Sweden

jgb wrote:

Stinktier86 wrote:

So, i've got a nice 4 hp expander panel for two spring reverb modules. There's eight pre-drilled holes. Three occupied by each 'char wet out, eq out. What to do with the two other holes? Any ideas?

For example, could a switch act as a 'dummy' plug for the x-fade, making it act more as a vactrol controlled amp?

Any other suggestions?

Well... I would love to be able to send the output from the spring to the brick, and the other way around. Probably requires some though.

In addition to that, stereo out from the brick since it is available (mixed to mono by default)

Åœbercool! Looking at the schematics, jp1 is collecting the two reverbs post brick and spring recovery (in opposite to distributing the signa mix and unbalanced wet out option. This means any serial connection would include trace cutting, so i'm out. ☺ but it's a cool idea, still.

I know it isn't the same thing, but the wet out option could always be used for feedback tasks.

In 'stereo mode' the brick apparently sends every even bucket/sample to the right and every odd one to the left... Or maybe the other wa is noticeable though, i can't imagine belton would include the feature if the sound wasn't acceptable.

[Back to top](#)

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Selador
Wiggling with Experience



Joined: 10 May 2012
Last Visit: 06 Jan 2015

Posts: 311
Location: Harlem, NY

Posted: Sat Apr 19, 2014 12:08 pm Post subject:

Any news on the restock? ☺

Born like this, into this, as chalk faces smile

[Back to top](#)

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toschek
Common Wiggle

Posted: Mon Apr 28, 2014 11:35 am Post subject:

I'd like to know about the restock too, it's still april I guess? If the restock isn't going to happen before May when will they update the page



Joined: 24 Oct 2013
Last Visit: 01 Jan 2015

 Posts: 177
Location: Oakland, CA

[Back to top](#)

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Posted: Mon Apr 28, 2014 11:37 am Post subject:

I'm waiting on parts for the restock, may is still possible.

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

[Back to top](#)

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Posted: Wed May 07, 2014 11:08 am Post subject:

I'm unsure about the 072s and the NE5532P.

is this the correct orientation? should the dot be towards the socket notch? on the 074 it's not, so..



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

 Posts: 741
Location: Gothenburg, Sweden



Does anyone know of other vendors who stock the kit? For example, you can buy an Eko kit from a lot of retailers (control voltage, fox tone

Thanks .!.

[Back to top](#)

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bsmith
Super Deluxe Wiggle



Joined: 07 Jan 2010
Last Visit: 07 Jan 2015

Posts: 2631
Location: Dallas

Posted: Wed May 07, 2014 11:12 am Post subject:

Dot toward the notch. When there is no little divot but there is a a little dot off to one side, it is indicating pin one.

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[Back to top](#)

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Stinktier86
Veteran Wiggle



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741
Location: Gothenburg, Sweden

Posted: Wed May 07, 2014 11:22 am Post subject:

thanks for the quick answer! no more halts now hopefully 

[Back to top](#)

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Starspawn
Common Wiggle



Joined: 06 Mar 2012
Last Visit: 22 Jan 2015

Posts: 198
Location: Norway

Posted: Wed May 07, 2014 3:57 pm Post subject:

Any particular reason one needs to use RCA connections?
I got a tank without, if I wanted to install jacks on both it and board whats the worst that can happen?

[Back to top](#)

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woodster
Ultra Wiggle

Posted: Wed May 07, 2014 4:06 pm Post subject:

Starspawn wrote:



Any particular reason one needs to use RCA connections?
I got a tank without, if I wanted to install jacks on both it and board whats the worst that can happen?

You'd need to mount the Jacks off board, unless you have some Jacks which fit the PCB footprint.
Jacks will be deeper inside the case compared to RCA.
It might be a factor if you are using the non front panel Spring connectors.

Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

Posts: 801
Location: UK

[Back to top](#)

Starspawn
Common Wiggler



Joined: 06 Mar 2012
Last Visit: 22 Jan 2015

Posts: 198
Location: Norway

Posted: Wed May 07, 2014 4:17 pm Post subject:

Wont be using the faceplate so thats not an issue, most of the panel parts will be off board I guess, I was just wondering if (besides isolatic reason to prefer RCA like tighter connection or shielding or something.

[Back to top](#)

woodster
Ultra Wiggler



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

Posts: 801
Location: UK

[Back to top](#)

Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

Posts: 741
Location: Gothenburg, Sweden

Posted: Thu May 08, 2014 12:19 pm Post subject:

Hi again. Put it together and it's alive (it's alive!!!) but not particularly well.

Here's my findings so far:

Z3000 --> optomix --> mtm spring --> consumer grade headphone

Standard spring tank, shielded rca cords.

-Dry signal distorts badly. Goes away clockwise (wet) but still some transient distortion.

-wet signal, although a bit too quiet at full, is more noisy than in demos. This noise is of smooth, constant character and varies with mix p the reverb to my ears.

-tank is far away and rotated so that 'dirty' noise isn't a problem

-when the wire between send pcb and phono is within proximity of my finger, or worse, the case, there's the typical dirty noise added on to -tilt doesn't do a too dramatic difference, although that might be hid behind all the noise.

-rotated the multturn a bit, didn't improve too much.

-there might be too much led on the rca send gnd connector, and the "in between disks cap" has its legs very close to each other.. But no concerns at the moment.

[Back to top](#)

sammy123
Veteran Wiggler

Posted: Thu May 08, 2014 12:53 pm Post subject:

Joined: 24 Mar 2013
Last Visit: 07 Jan 2015

 Posts: 630
Location: MKE

So I finally got around to finishing this build. I am using a Mod 4eb2c1b tank. It's a long two spring, medium decay unit. I did the calibration o'clock on the dial it starts to get very washed out and inarticulate. I am using a TH 555 and TH 4046 sine to test and have my EG set to produce short percussive tones. The pop of the attack is totally lost once the knob hits about noon-ish and the volume starts to drop significantly.

Any suggestions on particular components to check? I swapped the 5532 for a TL072 just for the heck of it, but could not really tell the difference.

Thank you

[Back to top](#)



Stinktier86
Veteran Wiggler



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

 Posts: 741
Location: Gothenburg, Sweden

Posted: Thu May 08, 2014 1:01 pm Post subject:

Update on my problem: seems to do with output impedance. I plugged the music thing modular spring through.. an a-199 which has a sry distortion is gone along with noise problems.

i guess it is time i buy or build a decent back end mixer.

[Back to top](#)



sammy123
Veteran Wiggler

Joined: 24 Mar 2013
Last Visit: 07 Jan 2015

 Posts: 630
Location: MKE

Posted: Thu May 08, 2014 11:01 pm Post subject:

So I think I had a bad component cable. Its working better now. I verified all values and reflowed the joints. It's still much quieter the wetter

sammy123 wrote:

So I finally got around to finishing this build. I am using a Mod 4eb2c1b tank. It's a long two spring, medium decay unit. I did the calibration o'clock on the dial it starts to get very washed out and inarticulate. I am using a TH 555 and TH 4046 sine to test and have my EG set to produce short percussive tones. The pop of the attack is totally lost once the knob hits about noon-ish and the volume starts to drop significantly.

Any suggestions on particular components to check? I swapped the 5532 for a TL072 just for the heck of it, but could not really tell the difference.

Thank you

[Back to top](#)



sammy123
Veteran Wiggler

Joined: 24 Mar 2013
Last Visit: 07 Jan 2015

 Posts: 630
Location: MKE

Posted: Mon May 12, 2014 9:50 am Post subject:

Since this tank needs to go back in my amp I ordered the recommended 3-spring model. We'll see what happens.

Also, just a side note. I replaced my z-rails with wood rails and this module got very noisy. So likely a ground issue, right? I'll just move it to

sammy123 wrote:

So I think I had a bad component cable. Its working better now. I verified all values and reflowed the joints. It's still much quieter the wetter

sammy123 wrote:

So I finally got around to finishing this build. I am using a Mod 4eb2c1b tank. It's a long two spring, medium decay unit. I did the calibration o'clock on the dial it starts to get very washed out and inarticulate. I am using a TH 555 and TH 4046 sine to test and have my EG set to produce short percussive tones. The pop of the attack is totally lost once the knob hits about noon-ish and the volume starts to drop significantly.

Any suggestions on particular components to check? I swapped the 5532 for a TL072 just for the heck of it, but could not really tell the difference.

Thank you

[Back to top](#)



a100user
All the gear, no idea!



Joined: 13 Mar 2008
Last Visit: 08 Jan 2015

 Posts: 2811
Location: Southern England

Posted: Mon May 12, 2014 10:11 am Post subject:

Must get around to building mine.

[Back to top](#)



woodster
Ultra Wiggler

Posted: Tue May 13, 2014 1:53 pm Post subject:

Are there still plans afoot to do an expander panel ?



Joined: 05 Mar 2012
Last Visit: 07 Jan 2015

 Posts: 801
Location: UK

[Back to top](#)

Posted: Tue May 13, 2014 1:56 pm Post subject:

yep, expander is in the later stages of prototyping now

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Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Tue May 13, 2014 1:58 pm Post subject:

I made my own expander (4hp, serves two modules) but will probably repurpose it if there's an official one coming out 



Joined: 26 Aug 2012
Last Visit: 28 Dec 2014

 Posts: 741
Location: Gothenburg, Sweden

[Back to top](#)

Posted: Fri May 30, 2014 6:34 pm Post subject:

For the power input, can I just use 4004 (would just protect more?) and 10-22R instead of 4001 and fuse? That seems common and I have ready to go and Id rather not wait two weeks for parts if that will do.

For use with 15V

Last edited by Starspawn on Sat May 31, 2014 8:12 am; edited 2 times in total



Joined: 06 Mar 2012
Last Visit: 22 Jan 2015

 Posts: 198
Location: Norway

[Back to top](#)

Posted: Sat May 31, 2014 4:12 am Post subject:

Spring Reverb Kits are back in stock and lots of other stuff too



Joined: 29 May 2009

Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK



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[Back to top](#)

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Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

 Posts: 1024
Location: CÃ ´te d'Azur, France

Posted: Sat May 31, 2014 9:51 am Post subject:

Finished mine (been in the backlog for a while) yesterday. Brick works, spring needs to wait until I add case-mounted RCA connection.

Stinktier86 wrote:

I made my own expander (4hp, serves two modules) but will probably repurpose it if there's an official one coming out 

I made my own expander too - OHP, serves one module  downside is that the panel labeling is incorrect. 

I got the front panel with panel-mount RCA, but will hook up the cables to the spring from the pads on the PCB. That gives me two spare holes.

One of those holds a toggle switch which connects to the three-pin brick/spring header so I can switch between brick and spring. Second output goes there via a unity gain buffer made from 1/2 TL072, a 1k output resistor, 2 100nF decoupling caps and a tiny bit of perfboard.

[ondes](#) | [current rack](#)

Quote:

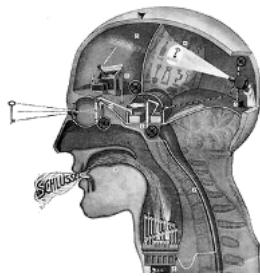
I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 

[Back to top](#)

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el Nacho
Learning to Wiggle

Posted: Mon Jun 09, 2014 5:12 am Post subject:



I just finished building my kit. It works and sounds great. I still have some buzz on line due to the shitty cable but that I'll figure out. Also, case. I'll ditch the metal housing for aesthetic reasons and accessibility to the springs.

Joined: 25 Apr 2014
Last Visit: 07 Jan 2015
Posts: 17
Location: Berlin, Germany



This actually marks a very important moment in the life of my rack. The spring reverb was the first module I've chosen.

<http://www.modulargrid.net/e/racks/view/94852>

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

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Posted: Mon Jun 09, 2014 5:16 am Post subject:

Nice work el Nacho.

Are you sure the cable causes the buzz though? Does it decrease in volume if you hold the spring tank and move it as far away from any of

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Joined: 25 Apr 2014
Last Visit: 07 Jan 2015
Posts: 17
Location: Berlin, Germany

[love the module. really like how it sits in my rack. but I have to go out on such a nice day. Will listen to some recordings of the spring in th](#)

<http://www.modulargrid.net/e/racks/view/94852>

[Back to top](#)

Liquidyzer
Wiggling with Experience



Posted: Tue Jun 10, 2014 8:36 am Post subject:

Finished my build at the weekend, wouldn't say it's the easiest module I've made (seemed harder than the IXR drum machine I made a few medium brick, will try out a spring tank as soon as I have the space.

Just trying to calibrate it but turning the screw on the blue tuner doesn't seem to do much? Any tips?

Joined: 24 Apr 2013
Last Visit: 07 Jan 2015

 Posts: 474
Location: Uk (London)

[Back to top](#)



jgb

Wiggling with Experience



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015

 Posts: 313
Location: Göteborg, Sweden

[Back to top](#)

□ Posted: Tue Jun 10, 2014 9:12 am Post subject:

Liquidyzer wrote:

Just trying to calibrate it but turning the screw on the blue tuner doesn't seem to do much? Any tips?

Calibration is for the spring tank level when using a real tank, not needed with the digital brick.

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Liquidyzer
Wiggling with Experience



Joined: 24 Apr 2013
Last Visit: 07 Jan 2015

 Posts: 474
Location: Uk (London)

[Back to top](#)



apoisontree
Learning to Wiggle



Joined: 22 Apr 2012
Last Visit: 07 Jan 2015

 Posts: 38

□ Posted: Tue Jun 17, 2014 2:29 am Post subject:

Hello,

does someone have the detailed current draw on the +12 and -12v rails?

The manual gives the general power consumption (25ma with the spring, 75ma with the brick).
I'm planning on adding the module into a CrowBX kit and I might need another transformer.

Also, if I understand correctly, the extension module will add 2 plugs (dry out, 100% wet out), 1 switch (spring tank/digital brick) and 1 pole.
Any info on the release date?

Thanks for your help.

[Back to top](#)



Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

 Posts: 8287
Location: Brighton, UK

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□ Posted: Tue Jun 17, 2014 6:39 am Post subject:

Just got the latest revision of expander boards through so we'll see how it goes.

It adds:

Analog/Digital switch (tank or brick)
100% wet output
Feedback loop with FX insert - send, return
Feedback loop phase invert switch



it's unashamedly an experimental drone monster

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jgb
Wiggling with Experience

□ Posted: Tue Jun 17, 2014 7:05 am Post subject:

Ooooh, want!



Joined: 07 Nov 2010
Last Visit: 22 Jan 2015



Posts: 313
Location: Göteborg, Sweden

[Back to top](#)

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apoisontree
Learning to Wiggle



Joined: 22 Apr 2012
Last Visit: 07 Jan 2015



Posts: 38

Posted: Tue Jun 17, 2014 1:19 pm Post subject:

Will there be a pot on the expansion to control the level of feedback ?

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Wed Jun 18, 2014 1:30 pm Post subject:

apoisontree wrote:

Will there be a pot on the expansion to control the level of feedback ?

yup, two pots to control both the feedback and the blend with the wet signal.

Thonk - Modular Synth DIY + Eurorack Accessories Store

Posted: Sat Jun 28, 2014 1:57 pm Post subject:

Got around to making an RCA breakout panel for my case, soldered on a pair of PCB RCA jacks onto the music thing rear PCB. There are two at the back of the case breakout, which go to the music thing.

The reverb works, hum and hiss are acceptably low, but as others have noted the level decreases substantially as you go from dry to wet.

I haven't tried removing C1 or reducing it to a smaller value, as was suggested in the thread. The level drop seems similar when sending b1. I don't think it is caused by low pass filtering.

I'm not hearing clipping distortion, so I will try the trimmer adjustment to increase drive to the spring.

Having a front-panel switch to go between brick and spring is very convenient.

ondes | current rack

Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

Joined: 03 Mar 2013
Last Visit: 22 Jan 2015



Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

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PJ303
Learning to Wiggle

Joined: 07 Sep 2012
Last Visit: 26 Sep 2014



Posts: 7
Location: Somewhere between London and Guildford

Posted: Sun Jun 29, 2014 8:30 am Post subject: dry->wet bleed?

Hi all,

I've built mine (my first Eurorack module looking a little lonely) but I seem to have an issue and I want to check expected behaviour.

With the mix control set fully wet I still get dry signal at the output.

Is this normal/expected?

[Back to top](#)

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Tombola
Super Deluxe Wiggle

Posted: Sun Jun 29, 2014 8:49 am Post subject: Re: dry->wet bleed?



PJ303 wrote:

With the mix control set fully wet I still get dry signal at the output.
Is this normal/expected?

Are you testing in the x-fader mode, or the spring reverb mode?

Which vactrol did you use, and which value for R7?

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

[Profile](#) | [PM](#)

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

PJ303
Learning to Wiggle

Joined: 07 Sep 2012
Last Visit: 26 Sep 2014



Posts: 7
Location: Somewhere between London and Guildford

Tombola wrote:

PJ303 wrote:

With the mix control set fully wet I still get dry signal at the output.
Is this normal/expected?

Are you testing in the x-fader mode, or the spring reverb mode?

Which vactrol did you use, and which value for R7?

I'm using a VTL5C3 and 47k as per the kit/instructions I did notice that the output jack socket was touching the ground expansion socket a help somewhat.

I've tested using the tank return (i.e. disconnecting) and also plugging a dummy lead into the x-fade in. I should note some of my leads are mini-jacks in case it's using some ring/sleeve connections to make the circuit.

Testing with the dummy input I recorded a -12dB drop moving from full dry to full wet.

Does the control knob have any effect with no CV input?

Any idea how to tell if I've fried the vactrol?

Thanks.

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[Back to top](#)

Tombola
Super Deluxe Wiggler

[Posted: Sun Jun 29, 2014 7:35 pm](#) Post subject: Re: dry->wet bleed?

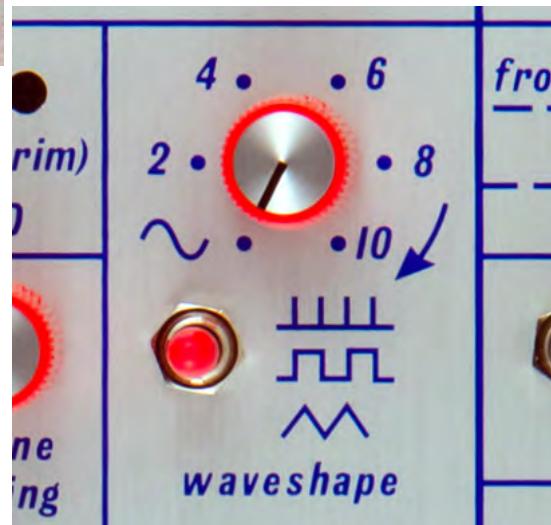
PJ303 wrote:

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Any idea how to tell if I've fried the vactrol?

Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England



I first saw the crossfade circuit in this module in the Buchla Easel/208 where it controls the complex oscillator waveshape by fading between (Apparently it originated in older vactrol datasheets)

It is a super simple circuit - really just the LDR in the vactrol and R7 - everything else is just buffering and control.

It doesn't fade down one signal while fading up another - you'd need two vactrols to do that. Instead, it uses the changing vactrol resistance another, a bit like a potentiometer.

So it's a crossfade, not a VCA - it will never 'close' with no input, but it will fade between two live inputs of roughly equal amplitude with ac

Testing it with one live input and one dead/dummy input doesn't work - it will just give you a slight voltage drop.

Try it with two outputs from an oscillator - i.e. a square in the main input, a sine in the X-fade input (or whatever waveforms you choose). smooth cross-fading between the two waveforms - sine vs square should sound pretty much like a low pass filter, as the many harmonics of the sine. But there is no filtering happening, just cross-fading. That's how it works in the Easel.

David Brown has some analysis and tweaks on the Crossfade circuit

<http://musicthing.co.uk/modular/>

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[Back to top](#)

algo
Common Wiggler

Joined: 09 Mar 2013
Last Visit: 22 Jan 2015

Posts: 189
Location: UK

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Nordcore
Wiggling with Experience



Joined: 10 May 2013
Last Visit: 22 Jan 2015

Posts: 469
Location: Germany

[Back to top](#)

algo
Common Wiggler

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Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

mystico
4 million volt wiggler



Joined: 13 Jul 2011
Last Visit: 27 Dec 2014

Posts: 621

[Back to top](#)

David Brown has some analysis and tweaks on the Crossfade circuit

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

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Posted: Mon Jun 30, 2014 6:42 am Post subject:

The Accutronics 9EB2C1B Reverb Tank 17" Long is out of stock, would the TAD 9EB2C1B do the job?

<http://www.soundcloud.com/a-l-g-o>

[Back to top](#)

algo
Common Wiggler



Joined: 10 May 2013
Last Visit: 22 Jan 2015

Posts: 469
Location: Germany

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Nordcore
Wiggling with Experience



Joined: 10 May 2013
Last Visit: 22 Jan 2015

Posts: 189
Location: UK

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Posted: Mon Jun 30, 2014 11:49 am Post subject:

Thanks **Nordcore**, going to give the TAD a go 😊

<http://www.soundcloud.com/a-l-g-o>

[Back to top](#)

Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

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mystico
4 million volt wiggler



Joined: 13 Jul 2011
Last Visit: 27 Dec 2014

Posts: 621

[Back to top](#)

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David Brown has some analysis and tweaks on the Crossfade circuit

<http://musicthing.co.uk/modular/>

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[Back to top](#)

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[Back to top](#)

Nordcore
Wiggling with Experience



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[Back to top](#)

algo
Common Wiggler

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[Back to top](#)

Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015

Posts: 1024
Location: Côte d'Azur, France

[Back to top](#)

mystico
4 million volt wiggler



Joined: 13 Jul 2011
Last Visit: 27 Dec 2014

Posts: 621

[Back to top](#)

jbi
Learning to Wiggle



Joined: 03 Nov 2010
Last Visit: 14 Dec 2014

Posts: 50
Location: Wiltshire, UK

[Back to top](#)

[Post](#) Posted: Fri Jul 11, 2014 10:02 am Post subject:

I want to add a dual reverb to my 5U modular. Anyone got an fpd file that I can hack for the panel ?
Thanks, John

[profile](#) [pm](#)

sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015

Posts: 7177
Location: Vortexexaion, TN, USA

[Post](#) Posted: Fri Jul 11, 2014 11:31 am Post subject:

jbi wrote:

I want to add a dual reverb to my 5U modular. Anyone got an fpd file that I can hack for the panel ?
Thanks, John

Maybe this one? You can see my version of this back on page 35 of this thread

2u motm stereo spring reverb.fpd

Description:

Filename: 2u motm stereo spring reverb.fpd
Filesize: 2.39 KB
Downloaded: 7 Time(s)

[Back to top](#)

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jbi
Learning to Wiggle



Joined: 03 Nov 2010
Last Visit: 14 Dec 2014

Posts: 50
Location: Wiltshire, UK

[Back to top](#)

[Post](#) Posted: Sat Jul 12, 2014 2:24 am Post subject:

That looks perfect sduck, thanks
John

[profile](#) [pm](#)

Tombola
Super Deluxe Wigglar



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posts: 1322
Location: London, England

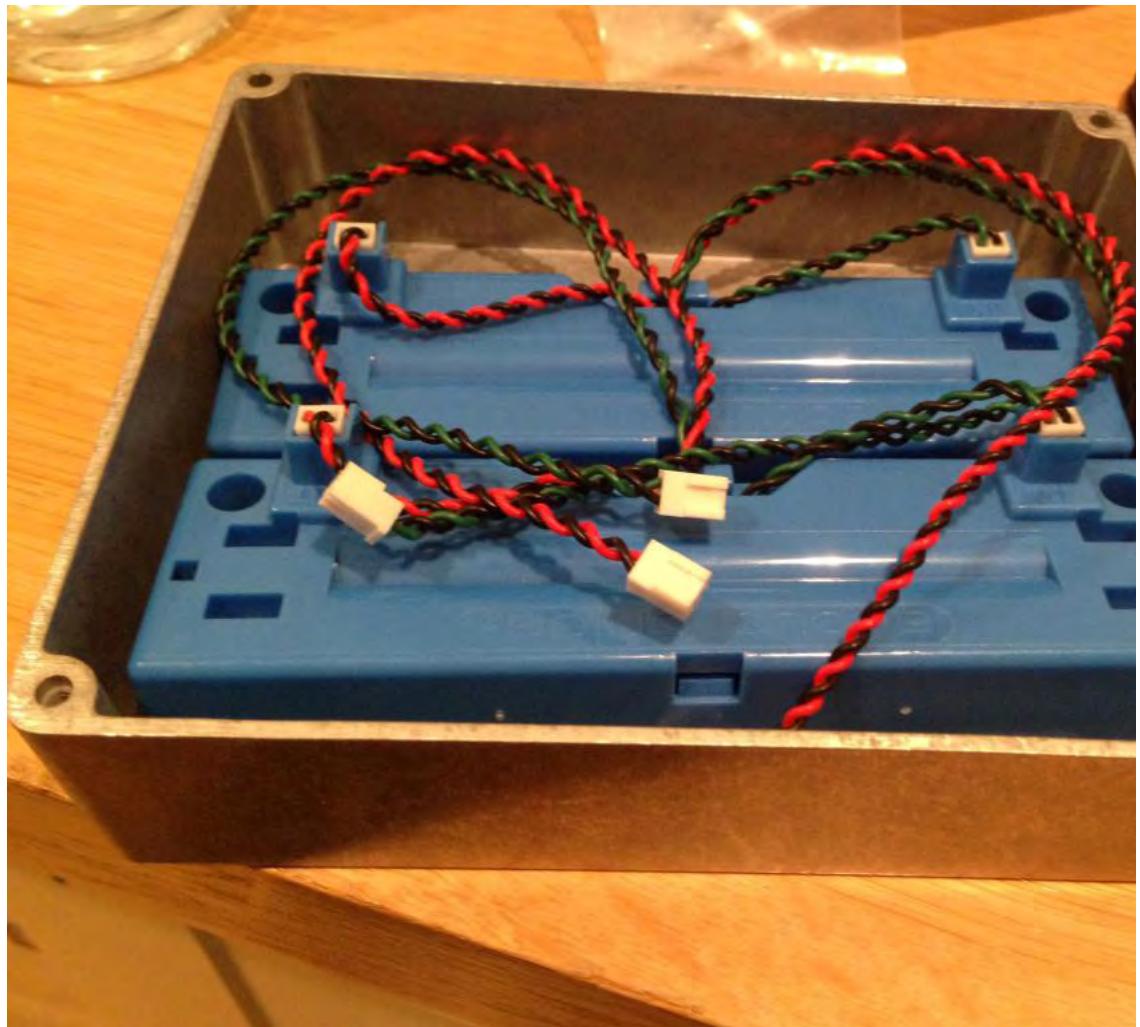
[Post](#) Posted: Sat Jul 12, 2014 3:02 am Post subject:

mystico wrote:

Anyone built one with the small blue accutronics tank yet?
Keen to know how it sounds.

I built this stereo unit, which looks cool and sounds pretty OK - the aluminium box gives it the basic hum screening it lacks with the plastic

Downside for me was that it doesn't sound as good as the big long boxes (less hi-fi, narrower frequency range, less 'rich') and it feeds back normal room monitor volume - That's nothing to do with the tanks themselves, but the way I mounted them without any isolation - normal in.



[Back to top](#)

robboten
Learning to Wiggle

Joined: 31 Mar 2012
Last Visit: 09 Aug 2014

Posts: 5
Location: Sweden

[Back to top](#)

Posted: Sat Jul 12, 2014 8:43 am Post subject:

Built mine now. Using 8BB3C1B and the doepfer tank 3BB2C1B (bought wrong pin-out digital tank). Sounds quite good but the dry won't go away. Trimpot gets it down a bit but with the cost of the wet signal, still not dry however. Any ideas where to start?

EDIT:

Doh... found it. I had soldered r16/r17 turned 90 degrees. No wonder it didn't work as planned. Now all is well! Time for some tuning. Than

cleaninglady
Super Deluxe Wiggle



Joined: 24 Aug 2009
Last Visit: 20 Jan 2015

Posts: 1080
Location: creeping up behind you

Posted: Fri Jul 18, 2014 9:37 pm Post subject:

Has anyone drawn up a stripboard diagram for building this one ?

I mean the type that graphically shows all the components and connections. I know this circumvents actually selling your product **Tombola** here.

I just like to do simple stripboard stuff , especially in 4hp.

WTB : Clarke68 X-4046 VCO panel (new or used).

<http://soundcloud.com/cleaninglady>

<http://cleaninglady.bandcamp.com>

<http://soundcloud.com/supreme-overlord>

[Back to top](#)

snaper
Wiggling with Experience

Joined: 10 Feb 2014
Last Visit: 07 Jan 2015
Posts: 277
Location: Magyarország

Posted: Sun Jul 20, 2014 8:22 am Post subject:

cleaninglady wrote:

Has anyone drawn up a stripboard diagram for building this one ?

I mean the type that graphically shows all the components and connections. I know this circumvents actually selling your product **Tombola** , this here.

I just like to do simple stripboard stuff , especially in 4hp.

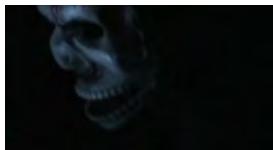
There is a stripboard layout for the "simple" reverb driver.
Thinking about building that one cause I have a vintage tank for it :S

[Back to top](#)

cleaninglady
Super Deluxe Wiggle

Posted: Sun Jul 20, 2014 9:52 am Post subject:

snaper wrote:



There is a stripboard layout for the "simple" reverb driver.
Thinking about building that one cause I have a vintage tank for it :S

Do you have a link for that **snaper** ?

Joined: 24 Aug 2009
Last Visit: 20 Jan 2015



Posts: 1080
Location: creeping up behind you

WTB : Clarke68 X-4046 VCO panel (new or used).

<http://soundcloud.com/cleaninglady>

<http://cleaninglady.bandcamp.com>

<http://soundcloud.com/supreme-overlord>

[Back to top](#)

EMwhite
Super Deluxe Wiggle



Joined: 08 Feb 2012
Last Visit: 07 Jan 2015



Posts: 1602
Location: NY Metro area

Does anybody have any comments on a good 'performing' LED for this project? I say 'performing' because the LED that I used on the two I borrowed from someplace.

As it turned out, I was (as others have been) less than happy with the Mix of the cross-fader and after blowing an LED by shorting it like a not work anymore which made me think that forward voltage or some other aspect of the LED (mA consumption?) is in someway responsible a lot of comments about how it was difficult to get 100% wet, and yes I know there is a wet output.

In my case it could also be something I did wrong but I'm sure I'm not alone. The somewhat sad part is that I bought 6 sets of board with the Oberheim project, an MU CP Panel project etc and am only satisfied enough with the basic reverberation.

I built Tom's prototype last year and it has massive drive and recover to the extent that it easily cranks into sonic madness, is negatively effected by the mix control.

Any comments would be helpful; I've asked about this in the past but don't recall seeing any feedback. If I bought the full kit and did it in the better; I'm pretty good about picking components from Mouser and building but a bit lost for an answer on what should be a fairly simple issue.

Thank you in advance.

Beware of programmers with screwdrivers...

[Back to top](#)

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

sduck summed it up nicely here

sduck wrote:

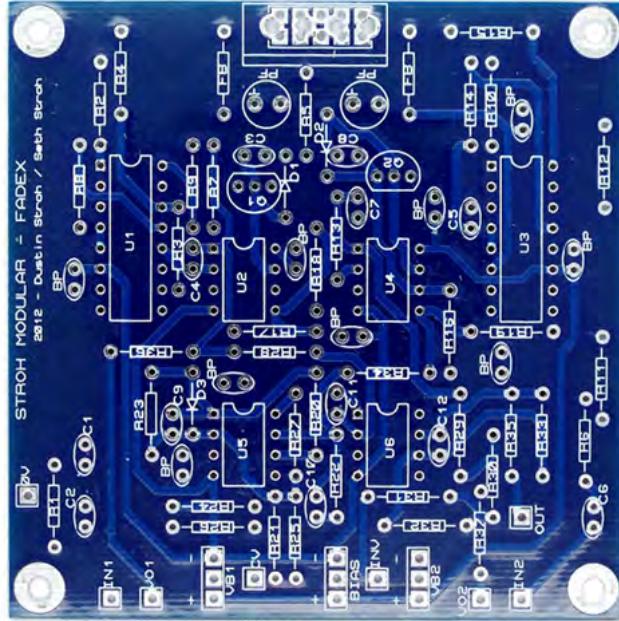
Out of the box the mix control doesn't go 100% wet. This is apparently the result of a design compromise - you can have a mix control that goes evenly, but doesn't go 100% wet, or you can have it go to 100% (or closer to 100%) wet, but the fade range is much smaller and harder to work with the value of R11 - it's 2.2K stock, but if you lower it the led in the varcrol (and the outboard one) light up more, which affects the mix values, but unless you're planning on using the X-fade function a lot, having better control over the mix wins out (for me at least), so I went

if you want CV control of wet/dry then stick with the current design, if it's more important to you to have a manual crossfade between dry and wet then you can do that.

There is a third way, you could use something like the J3RK Xfade board to do a fully wet/dry mix which is also CV controllable.

<http://www.thonk.co.uk/shop/j3rk-fad3r-crossfadepan-panel-and-pcb-sets/>

As you can see though, that would have doubled the size and cost of the Music Thing Spring Reverb.



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[Back to top](#)

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EMwhite
Super Deluxe Wiggle



Joined: 08 Feb 2012
Last Visit: 07 Jan 2015

Posts: 1602
Location: NY Metro area

[Back to top](#)

Posted: Tue Jul 22, 2014 9:38 pm Post subject:

Thanks, Steve; I'll give that a go and report back.

I was fairly certain that it was something simple and a trade off, just wouldn't know what values to use/try. I've got the components here t so this weekend.

FYI: I still have the 2nd set of sockets that I either need to ship back to you or donate/ship to somebody in the U.S. that have ordered. (yo set and then the 1st set showed up via Brian). Send me a PM and let me know what to do with them pls.

Beware of programmers with screwdrivers...

Joined: 08 Feb 2012
Last Visit: 07 Jan 2015

Posts: 1602
Location: NY Metro area

[profile](#) [pm](#)

Posted: Fri Jul 25, 2014 5:52 am Post subject:

cleaninglady wrote:

snaper wrote:

There is a stripboard layout for the "simple" reverb driver.
Thinking about building that one cause I have a vintage tank for it :S

Do you have a link for that **snaper** ?

At the end and the middle of the thread.

[Back to top](#)

southphillysynths
Super Deluxe Wiggler



Joined: 29 Jan 2013
Last Visit: 01 Jan 2015

Posts: 1123
Location: Philadelphia PA

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Posted: Fri Jul 25, 2014 7:26 pm Post subject:

Just got this during the sale, and whipped it up this afternoon, in testing led lights and responds with the wet/dry knob but no signal at all ↴ tank.

Any ideas?

Edit: reflowed, and checked polarity on everything, I can't think of anything wrong. Also bent up the jacks so they wouldn't short to the board.

Edit: Edit: So I forgot C1

Now that that is in I'm getting signal through and reverb sound, it's very quiet and it sounds like there is white noise mixed in with the signal. The reverb is self oscillating somehow?

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Sat Jul 26, 2014 2:35 pm Post subject:

southphillysynths do you have a Thonk panel? With RCA's on front or back?

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[Back to top](#)

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southphillysynths
Super Deluxe Wiggler



Joined: 29 Jan 2013
Last Visit: 01 Jan 2015

Posts: 1123
Location: Philadelphia PA

Posted: Sat Jul 26, 2014 4:34 pm Post subject:

Yep I have the back mount music thing panel.

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Sat Jul 26, 2014 4:45 pm Post subject:

ok pics of both sides of both boards would help now. What you're describing sounds like issues that people had with both the jacks not being double checked (but also when then is somehow a short between the ground/sleeves of the RCA jacks... what tank are you using exactly? If yes there is continuity across both the RCA grounds on the module, but also on your tank.

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[Back to top](#)

southphillysynths
Super Deluxe Wiggle

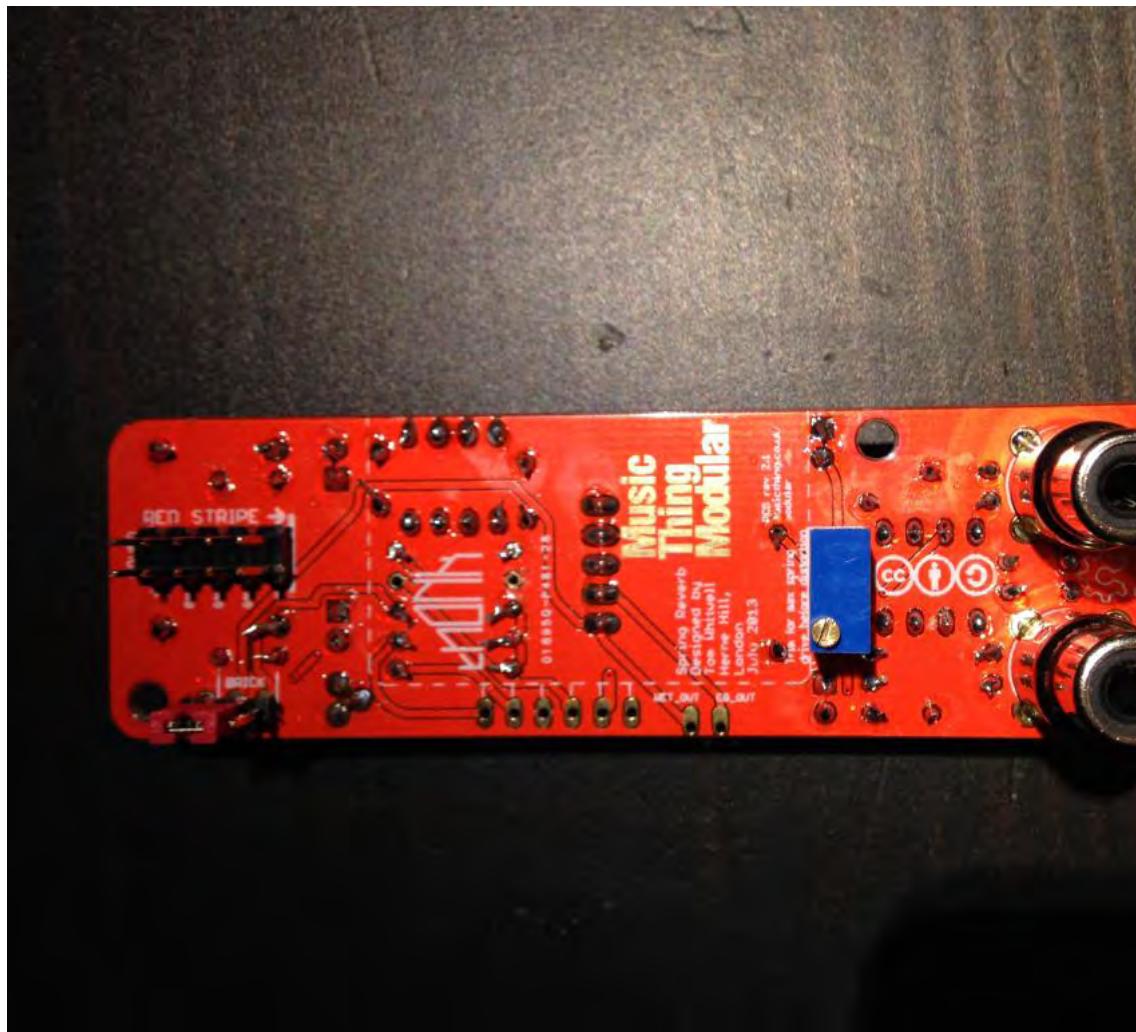


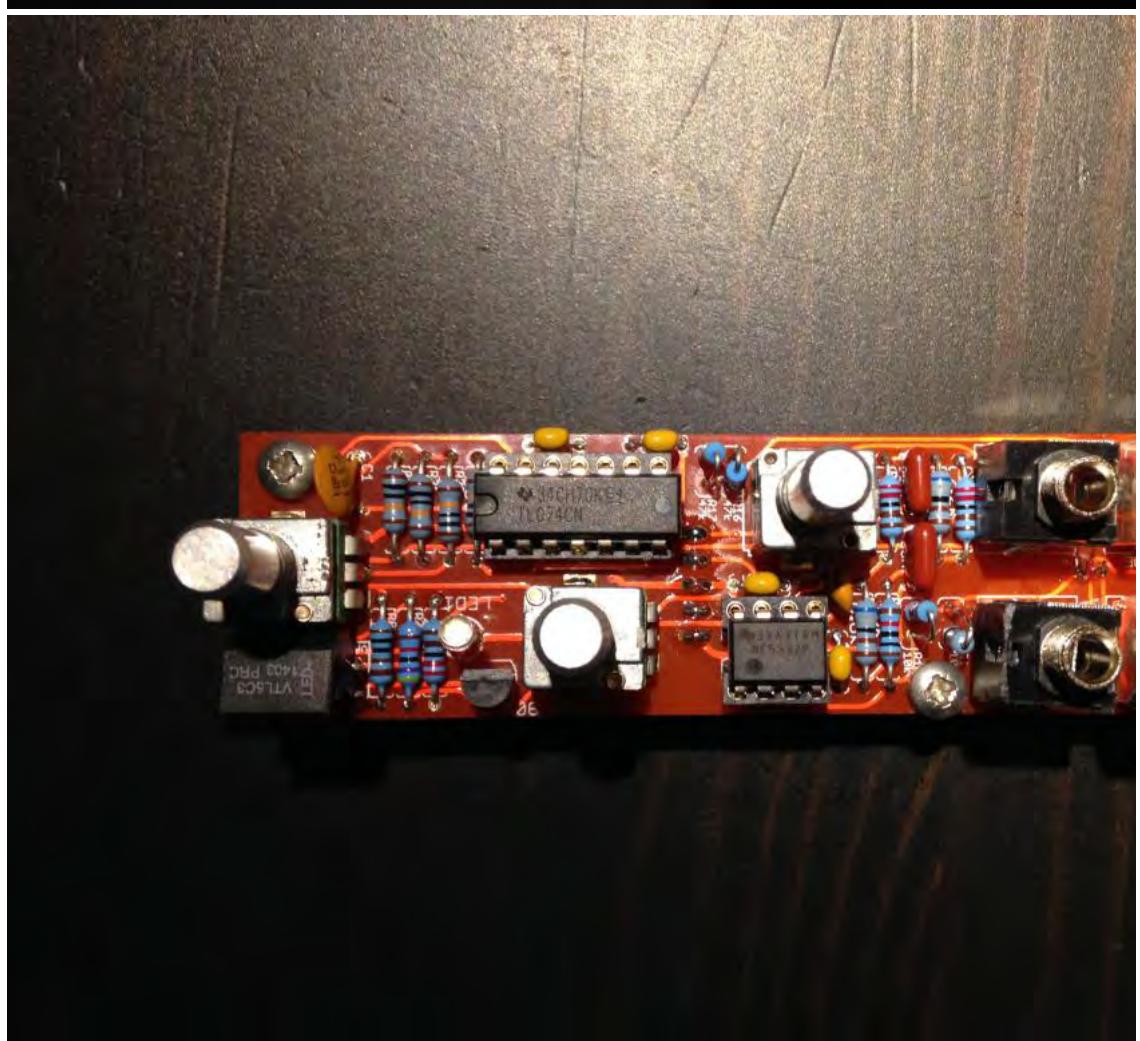
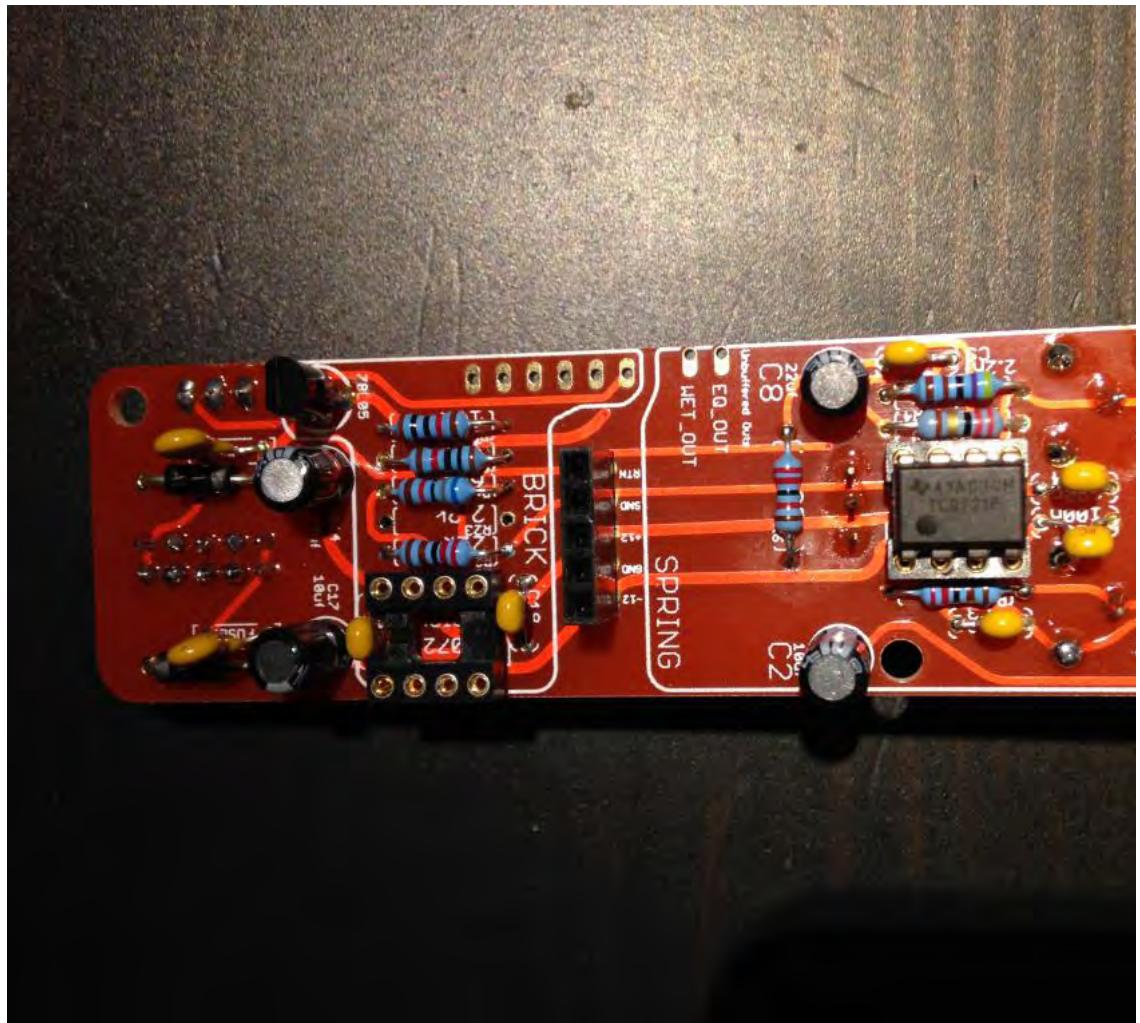
Joined: 29 Jan 2013
Last Visit: 01 Jan 2015

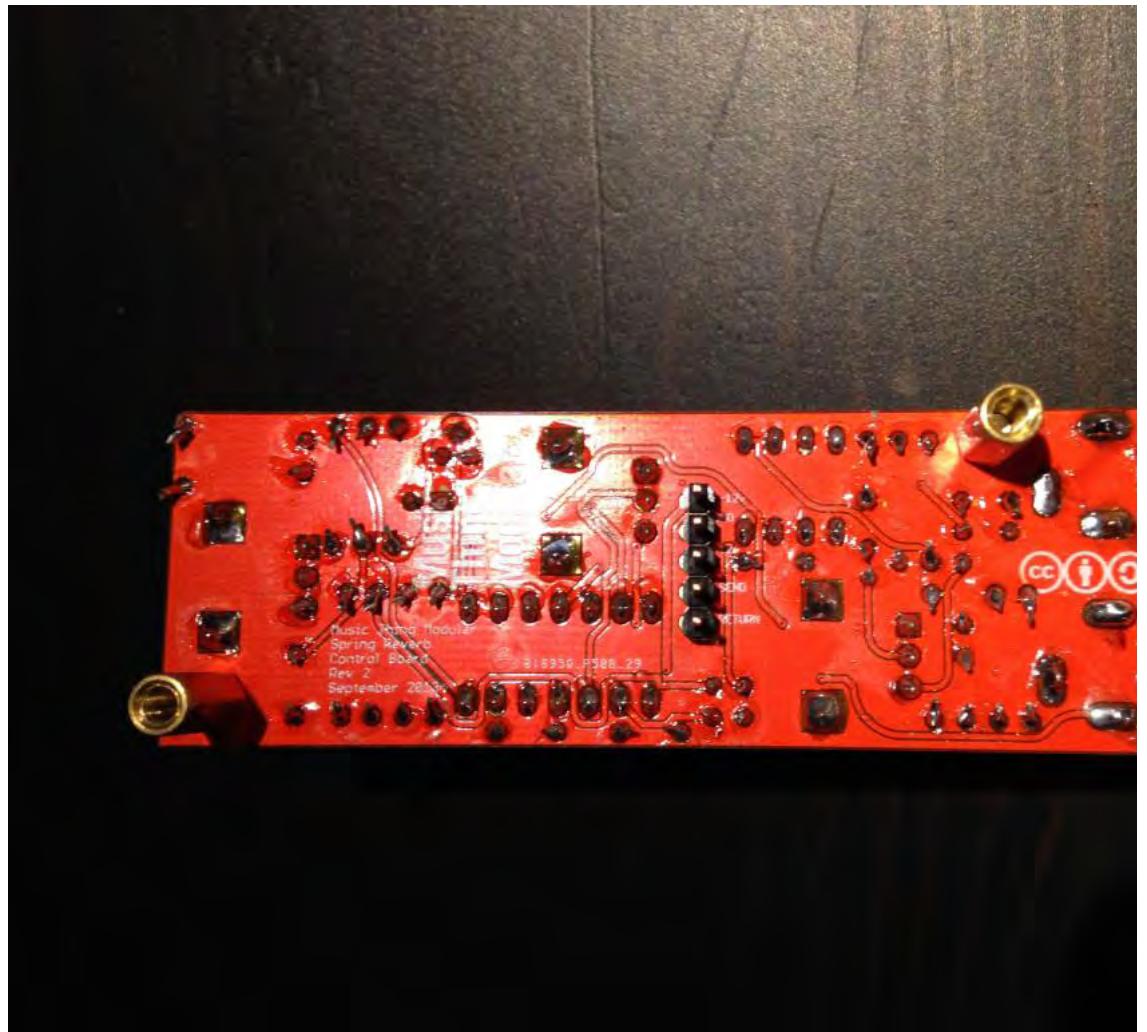
 Posts: 1123
Location: Philadelphia PA

Posted: Sat Jul 26, 2014 7:11 pm Post subject:

So I have an acoustatronics tank I grabbed from my guitar amp.







So one more extremely stupid question... how do I check continuity? Check resistance between the contacts?

[Back to top](#)

sammy123
Veteran Wiggler

Joined: 24 Mar 2013
Last Visit: 07 Jan 2015

Posts: 630
Location: MKE

[Back to top](#)

□ Posted: Sat Jul 26, 2014 8:31 pm Post subject:

For continuity usually digital multimeters will have a setting that beeps when there is continuity. On my Extech I select the diode setting an continuity mode.

Last edited by sammy123 on Sun Jul 27, 2014 6:58 am; edited 2 times in total

Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

□ Posted: Sun Jul 27, 2014 4:15 am Post subject:

Does the tank have a name or serial number?

You can also kind of test continuity with the ohm meter. You'd expect it to be either a very high value... or the same as the meter displays aren't touching.

But we might be able to do this from the tank name or serial.

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[Back to top](#)

southphillysynths
Super Deluxe Wiggler

□ Posted: Sun Jul 27, 2014 9:11 am Post subject:

Serial number is 4eb2c1b.

I think I have continuity with the tank, nothing shows up when I tested the tank across all ohm ranges.

Same with the module jacks on the module...



Joined: 29 Jan 2013
Last Visit: 01 Jan 2015

Posts: 1123
Location: Philadelphia PA

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

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southphillysynths
Super Deluxe Wiggler



Joined: 29 Jan 2013
Last Visit: 01 Jan 2015

Posts: 1123
Location: Philadelphia PA

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

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southphillysynths
Super Deluxe Wiggler

□ Posted: Sun Jul 27, 2014 10:45 am Post subject:

I get a reading on the outside of the jacks on the pcb and not inside. I get no reading on either part of the jacks on the tank.



Joined: 29 Jan 2013
Last Visit: 01 Jan 2015

Posts: 1123
Location: Philadelphia PA

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

[Back to top](#)

[posted](#): Sun Jul 27, 2014 3:53 pm Post subject:

southphillysynths wrote:

I get a reading on the outside of the jacks on the pcb and not inside. I get no reading on either part of the jacks on the tank.

ok gotcha, so you have a short somewhere on your PCB I think, you should see zero continuity or infinite resistance between the outsides c

I won't be able to reference my module until sometime tomorrow now.. but do you see continuity between either of the RCA jack shrouds a six pins on the power connector)

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southphillysynths
Super Deluxe Wiggler



Joined: 29 Jan 2013
Last Visit: 01 Jan 2015

Posts: 1123
Location: Philadelphia PA

[Back to top](#)

[posted](#): Sun Jul 27, 2014 4:34 pm Post subject:

I'm getting a reading between the outside of the right RCA on the pcb and the ground on the power connector. Do I need to reflow that join grounded properly?



Joined: 01 Oct 2012
Last Visit: 05 Jan 2015

Posts: 38
Location: Berlin

[posted](#): Mon Aug 11, 2014 5:38 pm Post subject:

Tombola wrote:

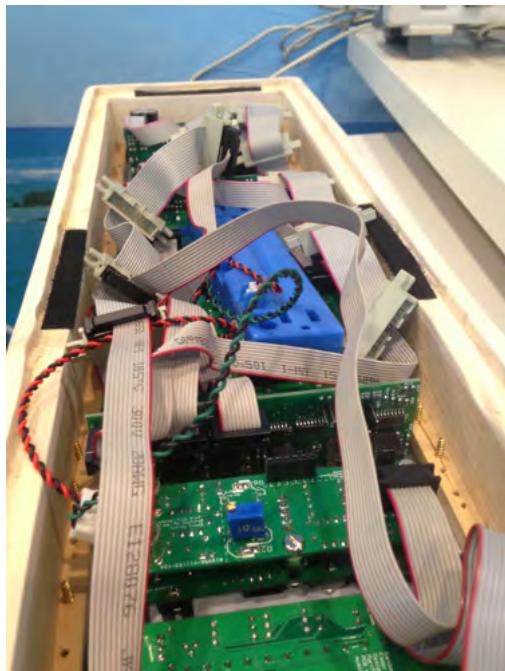
zardoz wrote:

Has anyone tried using the blue Accutronics tank the Metasonix R-56 uses?

I have a couple - they work OK, sound OK, but I'm not sure you can buy them anywhere but direct from Accutronics.

Two downsides - they seem to pick up more hum than traditional tanks, perhaps because they are entirely plastic so don't have to be carefully mounted to avoid feedback, because they don't have the spring isolators you see in traditional tanks. I had two (one shielded) sat on a shelf, and they'd feedback at pretty low levels.

One upside: skippable real spring reverb:



Hello Tombola, just got two of those blue tanks. On the picture we can not see how you fixed them to the board. Green, red, black wire to ...
Did you solder some male plugs to the board?
How are those plugs called in electronics parts shops?
Thanks

[Back to top](#)

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Posted: Tue Aug 12, 2014 3:07 pm Post subject:

panomega wrote:

Tombola wrote:

zardoz wrote:

Has anyone tried using the blue Accutronics tank the Metasonix R-56 uses?

I have a couple - they work OK, sound OK, but I'm not sure you can buy them anywhere but direct from Accutronics.

Two downsides - they seem to pick up more hum than traditional tanks, perhaps because they are entirely plastic so don't have metal components, and they need to be carefully mounted to avoid feedback, because they don't have the spring isolators you see in traditional tanks mounted in a hammond box (for shielding) sat on a shelf, and they'd feedback at pretty low levels.

One upside: skippable real spring reverb:

panomega
Learning to Wiggle

Joined: 01 Oct 2012
Last Visit: 05 Jan 2015

Posts: 38
Location: Berlin



Hello Tombola, just got two of those blue tanks. On the picture we can not see how you fixed them to the board. Green, red, black wire to ...

Did you solder some male plugs to the board?
How are those plugs called in electronics parts shops?
Thanks

Got it & everything's work fine!

[Back to top](#)

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Igor Berlin
Wiggling with Experience



Joined: 21 Sep 2013
Last Visit: 04 Jan 2015

Posts: 350
Location: Berlin

Posted: Wed Aug 13, 2014 7:41 am Post subject:

will the big Intellijel tank work? It's a Accutronics 9BB2C1B.

some audio, please.... or it never happened!

www.utopb.com

[Back to top](#)

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KNYST
hiding in the forest



Joined: 26 Jan 2009
Last Visit: 01 Jan 2015

Posts: 2748
Location: the Taiga, Sweden

Posted: Thu Aug 14, 2014 10:10 am Post subject:

Monobass wrote:

Just got the latest revision of expander boards through so we'll see how it goes.

It adds:

Analog/Digital switch (tank or brick)
100% wet output
Feedback loop with FX insert - send, return
Feedback loop phase invert switch

it's unashamedly an experimental drone monster

This expander can't come soon enough 😊

Any news?

Cheers

NOISE HEALS.

patch responsibly.

LISTEN | WATCH

>> The KNYST GONG performances!

[Back to top](#)

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livefreela
Common Wiggler

Joined: 25 Feb 2014
Last Visit: 07 Jan 2015
Posts: 144
Location: Los Angeles

Posted: Fri Aug 15, 2014 3:14 am Post subject:

that's the one dude - if the the joint is touching the jack body you're shorting it out. see if you can flow that down so there's no short. it's r
see you sorted it out, sorry!

[Back to top](#)

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KNYST
hiding in the forest



Posted: Wed Sep 03, 2014 9:05 am Post subject:

KNYST wrote:

Monobass wrote:

Just got the latest revision of expander boards through so we'll see how it goes.

It adds:

Analog/Digital switch (tank or brick)
100% wet output
Feedback loop with FX insert - send, return
Feedback loop phase invert switch

it's unashamedly an experimental drone monster

Joined: 26 Jan 2009
Last Visit: 01 Jan 2015



Posts: 2748
Location: the Taiga, Sweden

This expander can't come soon enough 😊
Any news?

Cheers

WANT! 🔥

NOISE HEALS.
patch responsibly.
LISTEN | WATCH
>> The KNYST GONG performances!

[Back to top](#)

337is
Ultra Wiggle



Joined: 29 Feb 2012
Last Visit: 22 Jan 2015

Posts: 928
Location: SW MI

[Back to top](#)

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Posted: Wed Sep 03, 2014 9:40 pm Post subject:

I too, am eager for expander! 🎉

SCloud MGrid

I've had great B/S/T transactions with: ryandfl, Soy Sos, metaBit, haven, swordsect, goiks, FSK1138, numan7, dubno, VanEck, rico loverde vonbonenstein, & soundwave106

Joined: 04 May 2014
Last Visit: 23 Nov 2014
Posts: 3
Location: London

moonbase3
Learning to Wiggle

Posted: Tue Oct 14, 2014 5:34 pm Post subject:

Hello fellow wigglers,

I'd love to pick your amazing brains to see if you guys can find the fix.

I've been having fun with the spring for quite a few months and suddenly, it stopped working after I added Mikrophonie and Manhattan Anza wrong when I was testing the VCA as I saw a little spark during the calibration and the spring module was right next to it but anyway, here

Everything except "TILT" works as it should be. The tilt now acts as a very steep fixed frequency High-pass filter when it's turned CW and v all. It just doesn't pass below certain frequency (which I presume is the centre frequency of the tilt EQ). Pretty much nothing except really so the reverb coming back from the tank is almost non-existent.

I've tried taking off all the new module I added and I've checked and reflowed all the soldered points but no luck.

Could anyone suggest what to do please? Many thank you in advance!

[Back to top](#)

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Posted: Mon Nov 17, 2014 3:43 pm Post subject:

anyone - what kind of switch do i need to change between the tank and brick? spdt on - on , spdt on -off -on?

<http://furtherrecords.org/album/sample-hold>

Joined: 23 Mar 2010
Last Visit: 07 Jan 2015

Posts: 829
Location: Dublin, Ireland

[Back to top](#)

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medbot
Common Wiggle

Posted: Mon Nov 17, 2014 4:52 pm Post subject:

I believe it should be a spdt on-on, at least that's what mine is. I've had my module for several months now with both the tank and the brick once, am I alone on that? It sounds good, but the big spring tank just sounds so much sweeter. It'd be cool to have the switch go between I wonder how tough that'd be to set up.



Joined: 28 Oct 2013
Last Visit: 22 Jan 2015

Posts: 214
Location: Denton, TX

[Back to top](#)

ootini
Ultra Wiggler



Joined: 23 Mar 2010
Last Visit: 07 Jan 2015

Posts: 829
Location: Dublin, Ireland

[Back to top](#)

ootini
Ultra Wiggler



Joined: 23 Mar 2010
Last Visit: 07 Jan 2015

Posts: 829
Location: Dublin, Ireland

[Back to top](#)

Starspawn
Common Wiggler



Joined: 06 Mar 2012
Last Visit: 22 Jan 2015

Posts: 198
Location: Norway

[Back to top](#)

Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015

Posted: Tue Nov 18, 2014 6:40 am Post subject:

moonbase3 wrote:

I saw a little spark during the calibration

It's hard to tell what you might have blown up.

One quick easy test would be to replace the op amp chips + before you do that use a multimeter to check that the correct voltages are com

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®



Posts: 1322
Location: London, England

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

[Back to top](#)

[User profile](#) | [Send pm](#)

moonbase3
Learning to Wiggle

Joined: 04 May 2014
Last Visit: 23 Nov 2014
Posts: 3
Location: London

Tombola wrote:

moonbase3 wrote:

I saw a little spark during the calibration

It's hard to tell what you might have blown up.

One quick easy test would be to replace the op amp chips + before you do that use a multimeter to check that the correct voltage amps

[Back to top](#)

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thelizard
in it for the money



Joined: 30 Aug 2009
Last Visit: 22 Jan 2015



Posts: 810
Location: Canton, OH/Chicago, IL/Santa Barbara, CA

KNYST wrote:

KNYST wrote:

Monobass wrote:

Just got the latest revision of expander boards through so we'll see how it goes.

It adds:

Analog/Digital switch (tank or brick)
100% wet output
Feedback loop with FX insert - send, return
Feedback loop phase invert switch

it's unashamedly an experimental drone monster

This expander can't come soon enough 😊
Any news?

Cheers

WANT!

Agreed! Any news on the expander?

<http://mhetrick.com/>
<http://www.unfilteredaudio.com/>
My music: <http://soundcloud.com/the-february-thaw>

[Back to top](#)

Hemmerlinj
Common Wiggle

Joined: 20 Oct 2012
Last Visit: 04 Jan 2015

 Posts: 74
Location: Astoria, NY

 Posted: Sun Nov 30, 2014 1:12 pm Post subject:

I've made my own expander for 2 Spring Reverb modules. I used a Pittsburgh Modular mult that I wasn't using. I broke off the top half of t switches in the empty holes on the plate. I want to add a breakout for the reverb tanks, but only have 2 more holes. I was thinking of tryin guess the send and receive for each tank would have to share the negative(or is it a ground) lead. Not sure if this is possible with this circu and hacking circuits. Only good at following directions to build them.



Any thoughts?

http://cdn.modulargrid.de/img/racks/modulargrid_132252.jpg

[Back to top](#)

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Tombola
Super Deluxe Wiggler



Joined: 23 Jan 2011
Last Visit: 22 Jan 2015



Posts: 1322
Location: London, England

Posted: Sun Nov 30, 2014 1:14 pm Post subject:

Hemmerlinj wrote:

I guess the send and receive for each tank would have to share the negative(or is it a ground) lead. Not sure if this is possible with this circuit.

That probably won't work well - you really need 4 wires going to the reverb tank, not 3.

<http://musicthing.co.uk/modular/>

The Music Thing Module Generator®

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Nantonos
Super Deluxe Wiggler



Joined: 03 Mar 2013
Last Visit: 22 Jan 2015



Posts: 1024
Location: Côte d'Azur, France

Posted: Wed Dec 03, 2014 12:47 pm Post subject:

Power draw is listed as

Quote:

Power consumption: Around 25 ma (spring) or
75ma (brick)

With just the spring, does that mean 25mA on -12V as well?

With the brick, which is a 5V device, the extra 50mA is on +12V only so -12V is still 25mA?

(Asking for ModularGrid goodness)

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Quote:

I am afraid a firmware change will not be able to turn a rather expensive 16-bit DAC into a 16-bit ADC, and flip all those op-amps 😊

[Back to top](#)

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clive.grace
Common Wiggler



Posted: Thu Dec 04, 2014 3:01 pm Post subject: oopsie, can someone help me?

Hi there, I made a mistake with the Music Thing Spring reverb and fitted the Vacrol the wrong way around (it was late, I was tired...never...Anyway rather than cut the wire, flip it over and solder wire to wire I removed it from the board and pulled the pcb trace right at the edge traces lead to so I was wondering if some kind soul could tell me where to pick up the broken tracks from both pins?

Picture file added

<http://www.clive-grace.co.uk>

Joined: 28 Oct 2014
Last Visit: 07 Jan 2015
Posts: 74

[Back to top](#)

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wired
Wiggling with Experience



Joined: 18 Aug 2012
Last Visit: 07 Jan 2015

 Posts: 467
Location: Europe - Belgium

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Starpawn
Common Wiggle



Joined: 06 Mar 2012
Last Visit: 22 Jan 2015

 Posts: 198
Location: Norway

[Back to top](#)

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ac
Learning to Wiggle

Joined: 10 Mar 2014
Last Visit: 04 Jan 2015
Posts: 50
Location: Brooklyn, NY

[Post](#) [Posted: Sun Dec 07, 2014 8:58 pm](#) Post subject:

Just had a quick build of the reverb module, but maybe a little too quick: it's not quite working.

Audio passes from the In to the Out without any reverb, controls make no difference. I started by adjusting the trimmer on the back, with i and not the tank.

The LED doesn't light either but I can confirm that it's not in backwards, by probing it with a little bit of voltage. The vactrol is also position-related to the 3904:

Tombola wrote:

The LED and vactrol are controlled by the 3904, with R11 going to ground and the ends of R31, R33 and R10 providing the summed control v inputs. If the LED never lights, then something is likely significantly wrong.

Have you checked the orientation of the vactrol? - I guess that would really confuse the circuit if it was the wrong way round.

My kit from Thonk came with a second 3904 but I think there was only one location to use one, is this part sensitive enough that it may be second one was included with the kit? How could I test to see if it's okay?

I wonder where to look next. Any ideas?

Thanks!
Andy

[Back to top](#)

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Starpawn
Common Wiggle

[Post](#) [Posted: Sun Dec 07, 2014 9:03 pm](#) Post subject:

Did you use the jumper for choosing brick?



I'm yet to test out but will be using a 8EB2C1B tank.

Thanks Tom and Thonk!

[Back to top](#)

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015

Posts: 8287
Location: Brighton, UK

Posted: Mon Dec 08, 2014 4:22 am Post subject:

Hi Andy,

Sorry for the confusion, I accidentally shipped some kits with two 3904s instead of one.

I have a crazy day of shipping ahead of me, but I'll take a look at what you wrote later.

Checking that you don't have continuity between +12v and gnd, -12v and gnd would be a good start. It sounds like you might have an accident. Good clear photos of both sides of both PCBs will get us to a solution quickest probably.

Steve
Thonk

Thonk - Modular Synth DIY + Eurorack Accessories Store

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ac
Learning to Wiggle

Joined: 10 Mar 2014
Last Visit: 04 Jan 2015
Posts: 50
Location: Brooklyn, NY

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Posted: Mon Dec 08, 2014 11:37 pm Post subject:

Okay thanks for the clarification on the 3904, I'll start checking for shorts.

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ac
Learning to Wiggle

Posted: Thu Dec 11, 2014 11:02 am Post subject:

Joined: 10 Mar 2014
Last Visit: 04 Jan 2015
Posts: 50
Location: Brooklyn, NY

[Back to top](#)

clive.grace
Common Wiggle



Joined: 28 Oct 2014
Last Visit: 07 Jan 2015
Posts: 74
Location: 192.168.0.256

It really was just a short, I got things working and I'll be more careful next time 😊 Thanks again Steve and Tom

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Posted: Mon Dec 15, 2014 8:09 am Post subject:

Finished mine with signature ally knobs and White LED (slight overhang to the xfade knob but that's ok, plenty of builds have nothing there



Monday morning starts with echooooooo by c-g., on Flickr

Backlog lowered by one. 8 partially built and 8 bare PCBs to go.

<http://www.clive-grace.co.uk>

[Back to top](#)

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Posted: Tue Dec 16, 2014 3:22 pm Post subject:

It's a beautiful module!!!

2 hour build worth it.

mwvm
Common Wiggle



Joined: 09 Aug 2014
Last Visit: 04 Jan 2015
Posts: 245

[Back to top](#)

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Posted: Tue Dec 16, 2014 4:36 pm Post subject:

how do i know the tilt pot is working? i put the output up to my scope and turned it a few times, it doesn't seem to really do anything :P

Joined: 03 Mar 2014

Logite
Learning to Wiggle

Last Visit: 29 Dec 2014
Posts: 50

im not sure what really to do here

[Back to top](#)

sduck
WTF?



Joined: 18 Feb 2009
Last Visit: 22 Jan 2015

Posts: 7177
Location: Vortexexia, TN, USA

[Back to top](#)

Logite
Learning to Wiggle

Joined: 03 Mar 2014
Last Visit: 29 Dec 2014
Posts: 50

□ Posted: Tue Dec 16, 2014 9:37 pm Post subject:

for some reason i didnt have the ne5532 soldered just pinned
..what the hell

[Back to top](#)

cleaninglady
Super Deluxe Wiggler



Joined: 24 Aug 2009
Last Visit: 20 Jan 2015

Posts: 1080
Location: creeping up behind you

□ Posted: Wed Dec 24, 2014 2:29 am Post subject:

Has anyone used this with the 8EB2C1B ?
Can anyone compare the response between 8EB2C1B and
the recommended 9EB2C1B spring unit ?

WTB : Clarke68 X-4046 VCO panel (new or used).

<http://soundcloud.com/cleaninglady>

<http://cleaninglady.bandcamp.com>

<http://soundcloud.com/supreme-overlord>

[Back to top](#)

wired
Wiggling with Experience



Joined: 18 Aug 2012
Last Visit: 07 Jan 2015

Posts: 467
Location: Europe - Belgium

□ Posted: Sat Dec 27, 2014 1:32 pm Post subject:

Love my Music Thing Spring Reverb, I've built one with both reverbs (digital brick and analog spring). Is so much better sounding than the

Thanks for this one, looking forward to other projects/modules

Wired to Make Noise

[Back to top](#)

snaper
Wiggling with Experience

Joined: 10 Feb 2014
Last Visit: 07 Jan 2015
Posts: 277
Location: Magyarország

□ Posted: Sat Dec 27, 2014 1:57 pm Post subject:

I've built 2 too.
One for a big tank, one for a small blue 😊

[Back to top](#)

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MikkelM
Learning to Wiggle

Joined: 03 Nov 2011
Last Visit: 07 Jan 2015



Posts: 23

Posted: Sun Dec 28, 2014 2:44 pm Post subject:

Have just started to build this, and figured out that my reverb-tank has an 10 ohm input impedance. Reading the documentation this will increase the input impedance?

Ahh! has now found a big NO in the middle of this thread..

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Monobass
thonk.co.uk



Joined: 29 May 2009
Last Visit: 06 Jan 2015



Posts: 8287
Location: Brighton, UK

[Back to top](#)

Posted: Fri Jan 02, 2015 4:47 am Post subject:

cleaninglady wrote:

Has anyone used this with the 8EB2C1B ?

Can anyone compare the response between 8EB2C1B and the recommended 9EB2C1B spring unit ?

I think the 8EB2C1B is very similar or identical to the one shipped with the Doepfer unit? If so then I honestly found the difference between subtle and would happily use either as if they were the same tank.

Thonk - Modular Synth DIY + Eurorack Accessories Store

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AndreasKlang
1-Post Wiggle

Joined: 02 Jan 2015
Last Visit: 02 Jan 2015
Posts: 1

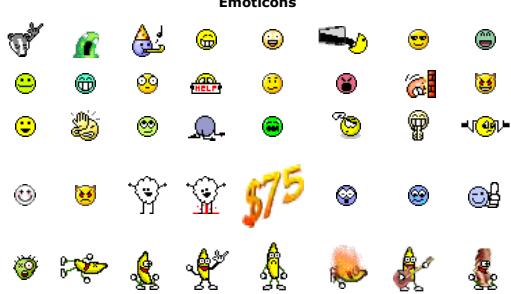
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Page 1 of 60

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