

BOME+Traktor mapping installation guide for all DDJ controllers

Installation video: https://youtu.be/MbGP_ECnWiQ

NOTE A: This cover **all** Pioneer DDJ controllers. Only difference is Aliases (page 10) and Output (page 29). See the annexes for other DDJs instructions (page 43)

NOTE B: You need to install the “BOME” software (page 3). Use the **free trial** to test it well **before** buying its 60 eur license. There is also instructions to run without BOME (page 40).

NOTE C: there are **two** mappings to install: One for BOME (page 6); and one for Traktor (page 20). Do **not** configure “DDJ” in the Traktor mapping!!

NOTE D: Issues? Reconfirm all steps of this guide and the video. See also the FAQ. See also the “gotchas” (page 35). I also offer a remote help service (page 36)

Step #0

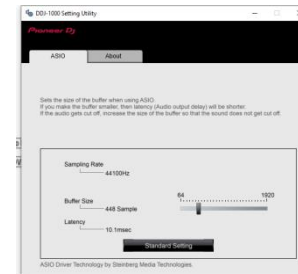
CONFIRM THAT REKORDBOX PERFORMANCE MODE WORKS PROPERLY IN YOUR SYSTEM!!

Driver Download: <https://www.pioneerdj.com/en/support/software/controller/ddj-1000/#drivers>

Firmware download: <https://www.pioneerdj.com/en/support/software/controller/ddj-1000/#firmware-update>

Rekordbox DJ download: <https://rekordbox.com/en/>

VirtualDJ Instructions (for reference): <https://www.virtualdj.com/manuals/hardware/pioneer/ddj1000/installation.html>

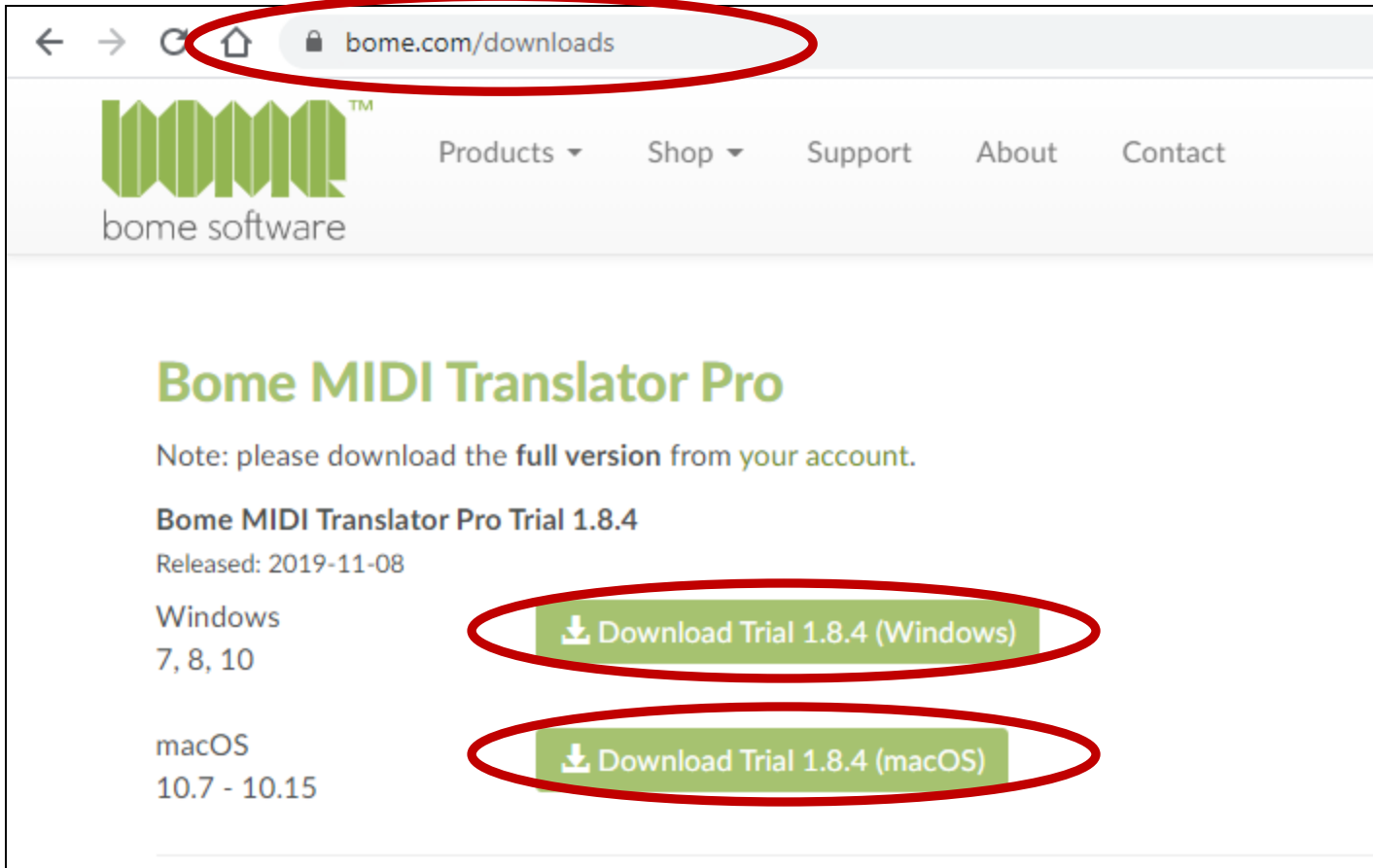


Step #1

BOME TRIAL: INSTALLATION

BOME SOFTWARE INSTALLATION:

1. Download and install the BOME trial from <https://www.bome.com/products/miditranslator#downloads>



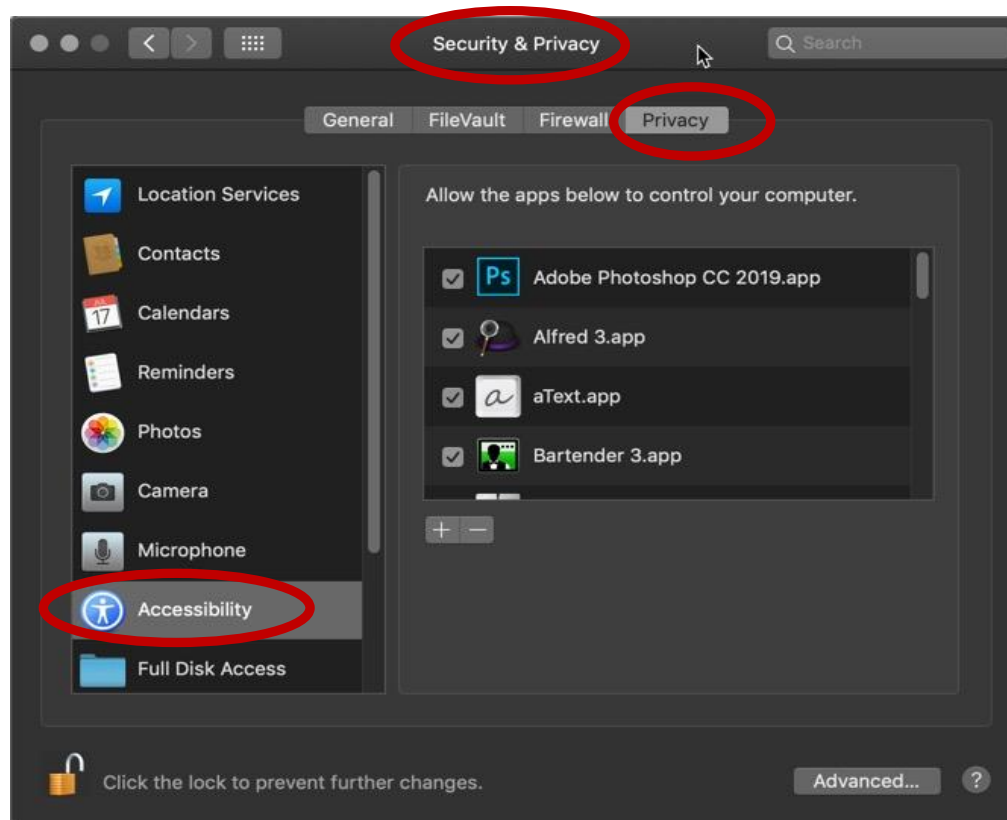
MAC-OS SECURITY ENABLE:

1. **macOS 10.9 and later:**
 1. System Preferences → Security & Privacy → Privacy → Accessibility -> Add “BOME”
2. **macOS 10.8 and earlier:**
 1. System Preferences → Universal Access → check 'access for assistive devices'

3. **More info:** See Page 40 of the BOME manual

https://www.bome.com/bome/downloads/manuals/miditranslator_manual.pdf

<https://www.maketecheasier.com/mac-os-security-privacy-permissions/>



Step #2

MAP FOR BOME: INSTALLATION

PRELIMINARIES:

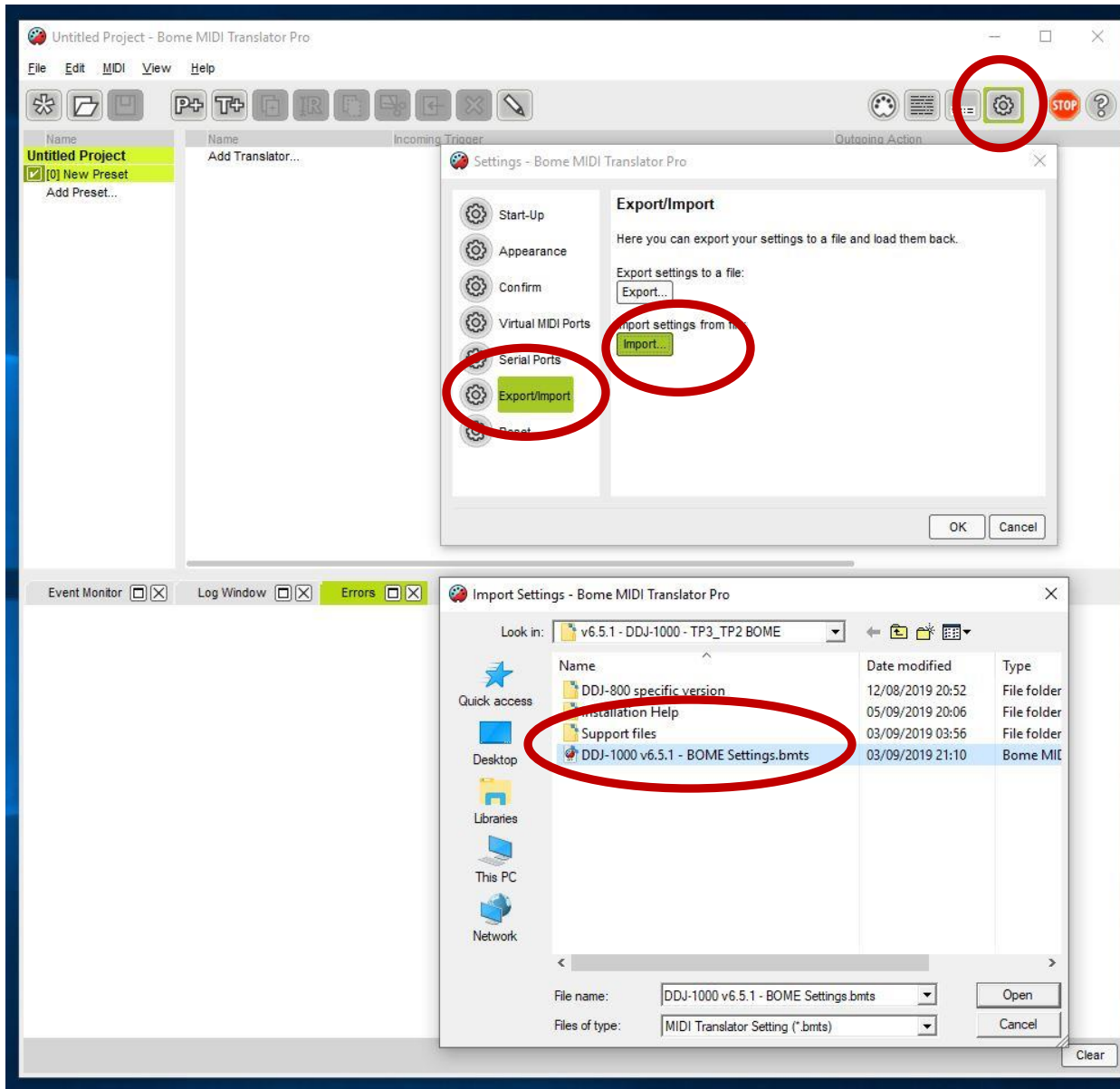
1. Stop Rekordbox
2. Stop Traktor
3. Expand all files in the zip file
4. Connect the USB cable
5. Turn on your DDJ

INSTALLING BOME MAPPING:

1. Open BOME. DO NOT RUN TRAKTOR!
2. Settings: Import the settings file
 1. Method: menu View; settings; export/import; import; select BMTS file
3. Mapping: load the mapping file
 1. Method: Click menu File; Open; select BMTP file
4. Do not mix up the Settings file with the Mapping file!

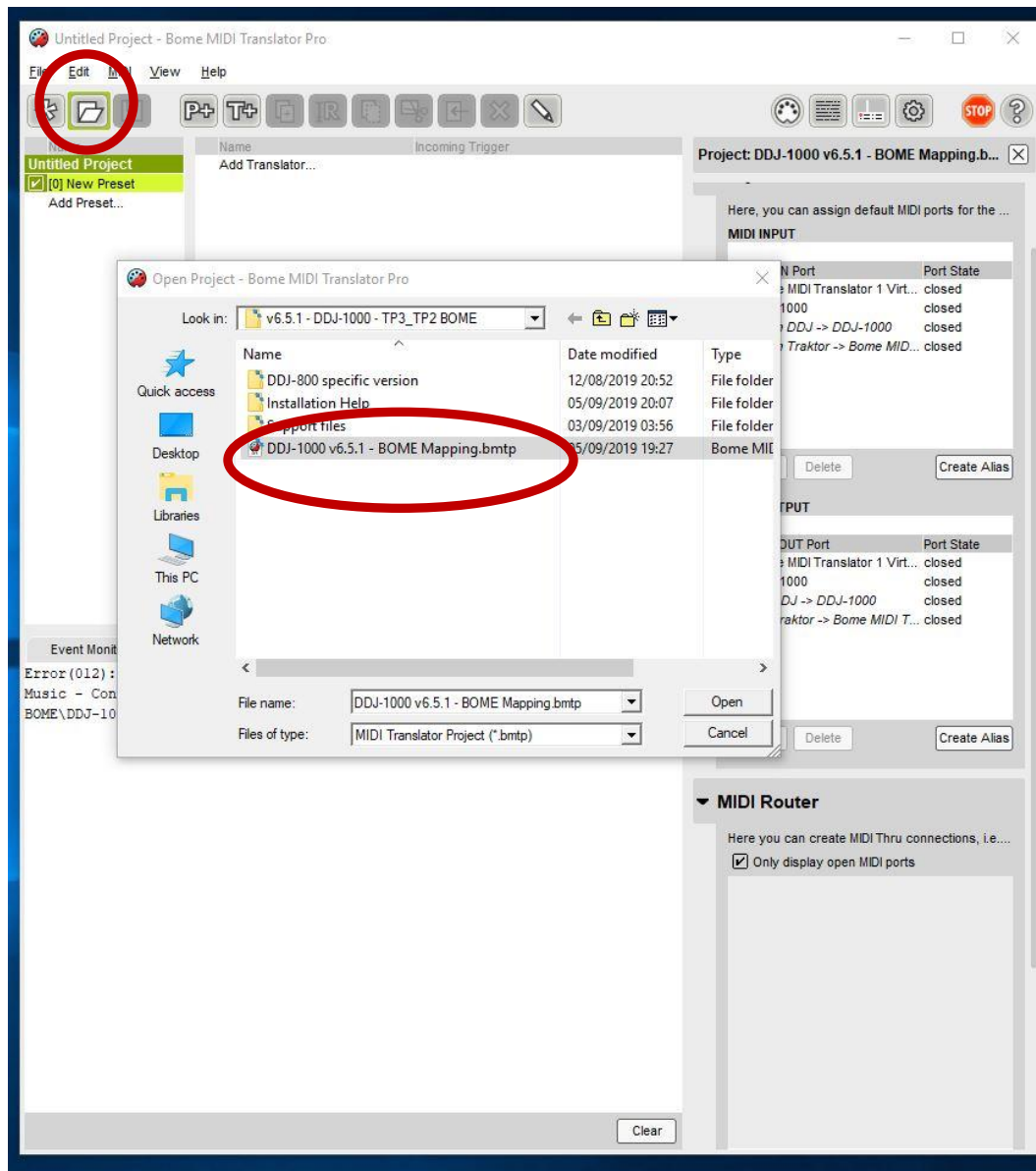


BOME: import settings file (BMTS file)



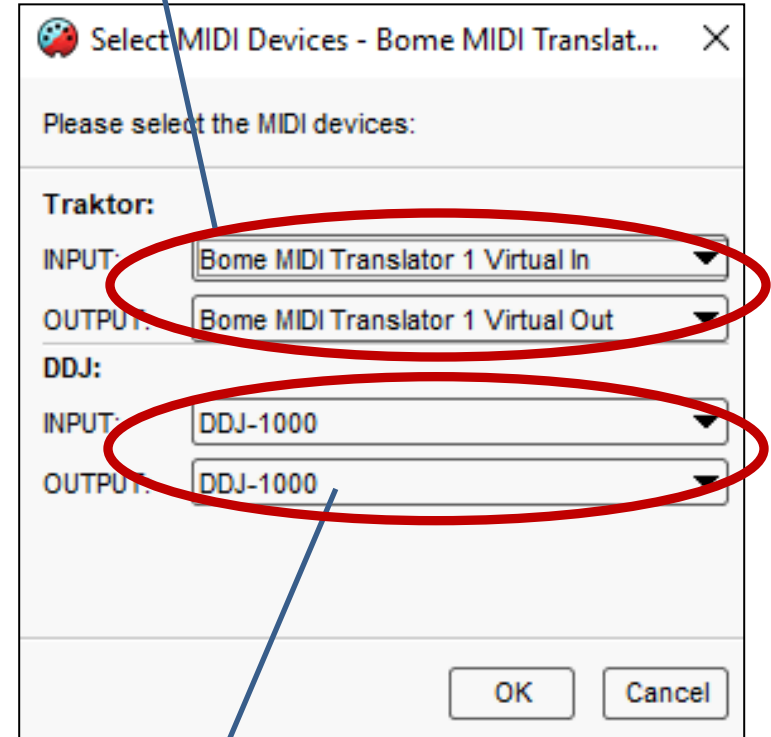
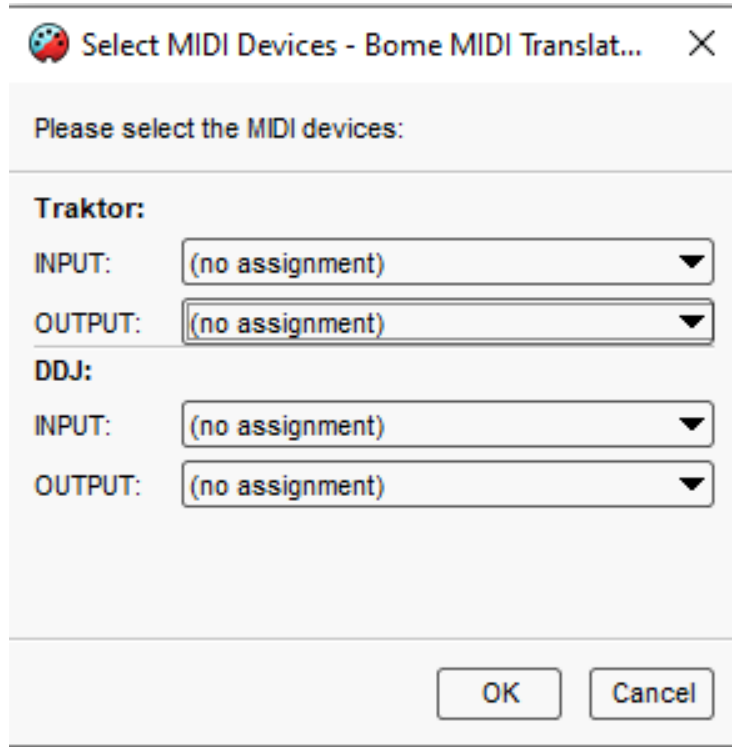
(Example for DDJ-1000; other DDJ are similar. See annexes for details)

BOME: import mapping file (BMTP file)



(Example for DDJ-1000; other DDJ are similar. See annexes for details)

BOME: Aliases



Do exactly this

Replace this with your
DDJ-SX2/SZ/SRT etc!

(note: see XDJ-XZ specific case in next page)

BOME: Aliases (XDJ-XZ case)

Select MIDI Devices - Bome MIDI Translator... X

Please select the MIDI devices:

Traktor:

INPUT: (no assignment) ▼

OUTPUT: (no assignment) ▼

DDJ 2:

INPUT: (no assignment) ▼

OUTPUT: (no assignment) ▼

DDJ 1:

INPUT: (no assignment) ▼

OUTPUT: (no assignment) ▼

OK Cancel



Select MIDI Devices - Bome MIDI Translat... X

Please select the MIDI devices:

Traktor:

INPUT: Bome MIDI Translator 1 Virtual In

OUTPUT: Bome MIDI Translator 1 Virtual Out

DDJ 2:

INPUT: XDJ-XZ (1)

OUTPUT: XDJ-XZ (1)

DDJ 1:

INPUT: XDJ-XZ (2)

OUTPUT: XDJ-XZ (2)

OK Cancel

Do exactly this

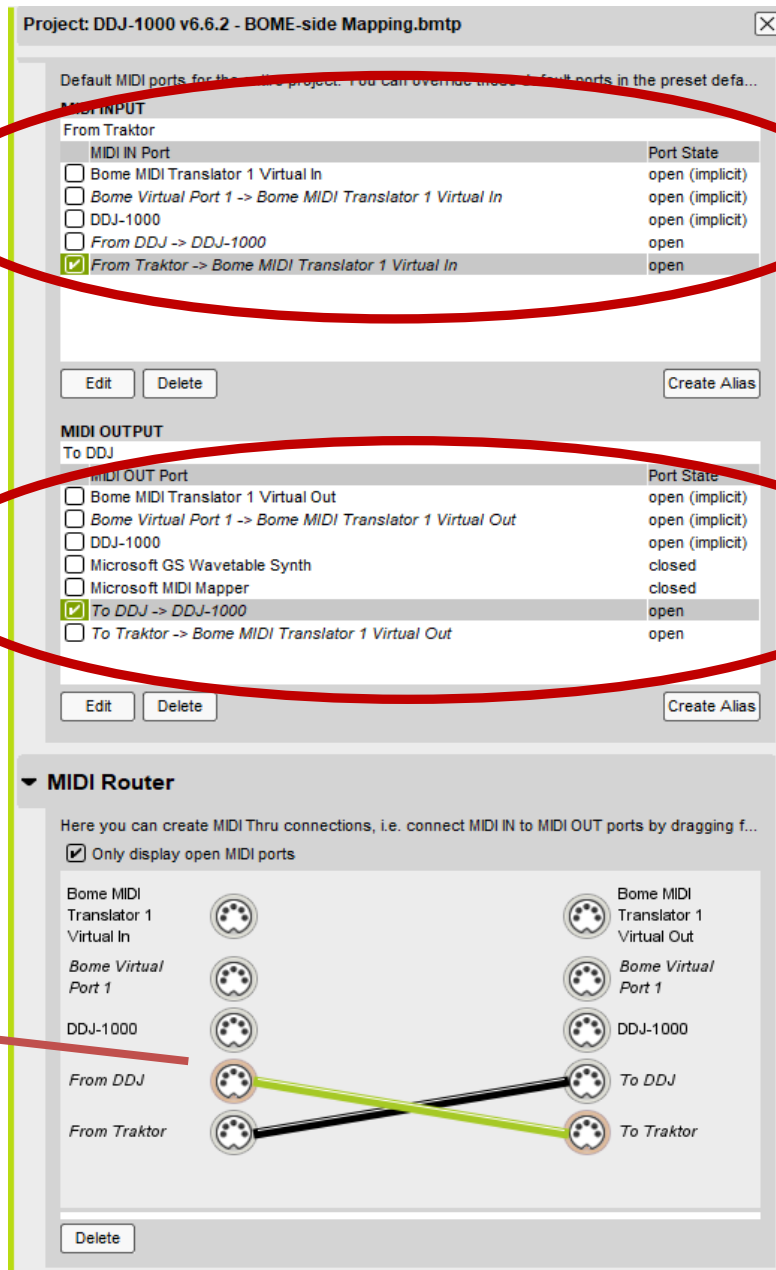
BOME: Devices

Confirm the devices are OPEN!

Ensure ONLY these 2x options are checked:

- "From Traktor" -> device 1 in OPEN
- "to DDJ" -> DDJ-1000 OPEN

Confirm it looks EXACTLY like on the picture



Confirm this "cross" on EXACTLY these aliases

(Example for DDJ-1000; other DDJ are similar. See annexes for details)

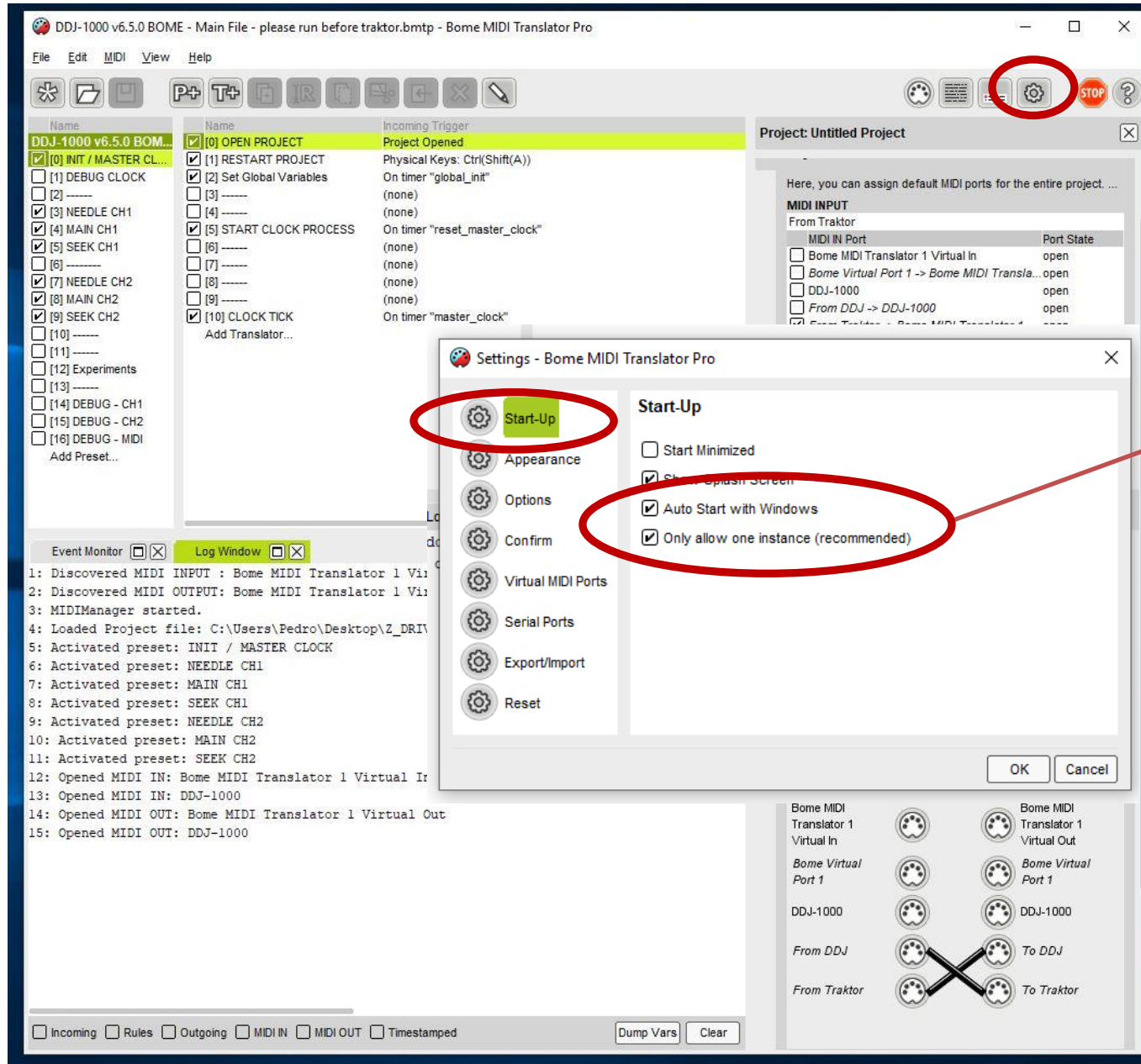
Step #3

MAP FOR BOM: VERIFICATION

BOME VERIFICATION STEPS:

1. Confirm the “Bome MIDI Translator 1” device is created (longformat)
 1. Method: menu View ; settings ; virtual midi ports ; 1 port; long port names
2. Confirm the 4x midi ports were opened correctly
 1. Method: Click log window; check log
3. Confirm that the Controller talks to BOME
 1. Method: Click log window; click “MIDI-IN/OUT”; Press any button on the controller; confirm they appear in the log file; unclick “MIDI-IN/OUT”
4. Confirm that the BOME clock is running
 1. Method: Click log window; click “rules”; see a lot of messages appearing
 2. unclick “rules” to stop the logging
5. Minimize BOME to keep it running

BOME settings: auto start with windows



Auto start with Windows!

BOME settings: long port name device

DDJ-1000 v6.5.0 BOME - Main File - please run before traktor.btmp - Bome MIDI Translator Pro

File Edit MIDI View Help

Project: Untitled Project

Here, you can assign default MIDI ports for the entire project. ...

MIDI INPUT

From Traktor

Port State

Port Name	Port State
Virtual In	open
Bome MIDI Transla...	open
1000	open
me MIDI Translator 1 ...	open

Create Alias

Settings - Bome MIDI Translator Pro

Start-Up

Appearance

Options

Confirm

Virtual MIDI Ports

Serial Ports

Export/Import

Reset

Virtual MIDI Ports

Here you can create virtual MIDI ports that you can use to send MIDI messages directly to other MIDI applications, and receive MIDI messages from other applications. Select the number of virtual ports you need.

Number of virtual ports:

1 Port

Naming of the virtual ports:

☒ Long port names (e.g. "Bome MIDI Translator 1")

☐ Short port names (e.g. "BOME")

When loading a project file with virtual ports:

☒ Adjust the number of virtual ports

☐ Do not prompt for adjusting the number of virtual ports

OK Cancel

Event Monitor

1: Discovered MIDI INP

2: Discovered MIDI OUT

3: MIDIManager started

4: Loaded Project file

5: Activated preset: I

6: Activated preset: N

7: Activated preset: M

8: Activated preset: S

9: Activated preset: N

10: Activated preset: main Ch2

11: Activated preset: SEEK CH2

12: Opened MIDI IN: Bome MIDI Translator 1 Virtual In

13: Opened MIDI IN: DDJ-1000

14: Opened MIDI OUT: Bome MIDI Translator 1 Virtual Out

15: Opened MIDI OUT: DDJ-1000

Here you can create MIDI Thru connections, i.e. connect MIDI I...

☒ Only display open MIDI ports

Bome MIDI Translator 1 Virtual In

Bome MIDI Translator 1 Virtual Out

Bome Virtual Port 1

Bome Virtual Port 1

DDJ-1000

DDJ-1000

From DDJ

To DDJ

From Traktor

To Traktor

Long port names!

BOME: Correct startup log

The screenshot displays the DDJ-1000 v6.5.0 BOME software interface. The main window is titled "DDJ-1000 v6.5.0 BOME - Main File - please run before t...". The interface includes a menu bar (File, Edit, MIDI, View, Help) and a toolbar with icons for file operations and MIDI settings.

Log Window: The "Log Window" is highlighted with a red circle. It displays the following messages:

```
1: Discovered MIDI INPUT: Bome MIDI Translator 1 Virtual In,DDJ-1000
2: Discovered MIDI OUTPUT: Bome MIDI Translator 1 Virtual Out,DDJ-1000,Microsoft GS Wavetable Synth
3: MIDIManager started.
4: Loaded Project file: C:\Users\Pedro\Desktop\Z_DRIVE_Pedro\2 Music - Controllers\0_MAPS_Traktor
5: Activated preset: INIT / MASTER CLOCK
6: Activated preset: NEEDLE CH1
7: Activated preset: MAIN CH1
8: Activated preset: SEEK CH1
9: Activated preset: NEEDLE CH2
10: Activated preset: MAIN CH2
11: Activated preset: SEEK CH2
12: Opened MIDI IN: Bome MIDI Translator 1 Virtual In
13: Opened MIDI IN: DDJ-1000
14: Opened MIDI OUT: Bome MIDI Translator 1 Virtual Out
15: Opened MIDI OUT: DDJ-1000
```

MIDI Settings: The "MIDI INPUT" and "MIDI OUTPUT" sections are visible. The "MIDI INPUT" section shows the "From Traktor" port selected. The "MIDI OUTPUT" section shows the "To DDJ" port selected. The "MIDI Router" section shows the connections between the ports.

Annotations:

- A red circle highlights the "Log Window" icon in the toolbar.
- A red circle highlights the "MIDI INPUT" and "MIDI OUTPUT" sections.
- A red circle highlights the "MIDI Router" section.
- A red circle highlights the "Do not change this!" text in the MIDI Router section.
- A red circle highlights the "4x messages here!" text in the Log Window.

Text overlays:

- Do not change this!** (Top center)
- Default is ONLY**
 - "From Traktor" OPEN
 - "to DDJ" OPEN
- confirm devices are OPEN!** (Center)
- 4x messages here!** (Bottom left)
- Do not change this "cross"!** (Bottom right)

(Example for DDJ-1000; other DDJ are similar. See annexes for details)

BOME: confirm DDJ talks to BOME

Event Monitor ☐ ☐ Log Window ☒ ☐

```
1: MIDI IN [DDJ-1000]: 93 0C 7F
2: MIDI OUT [Bome MIDI Translator 1 Virtual Out]: 93 0C 7F
3: MIDI IN [DDJ-1000]: 93 0C 00
4: MIDI OUT [Bome MIDI Translator 1 Virtual Out]: 93 0C 00
```

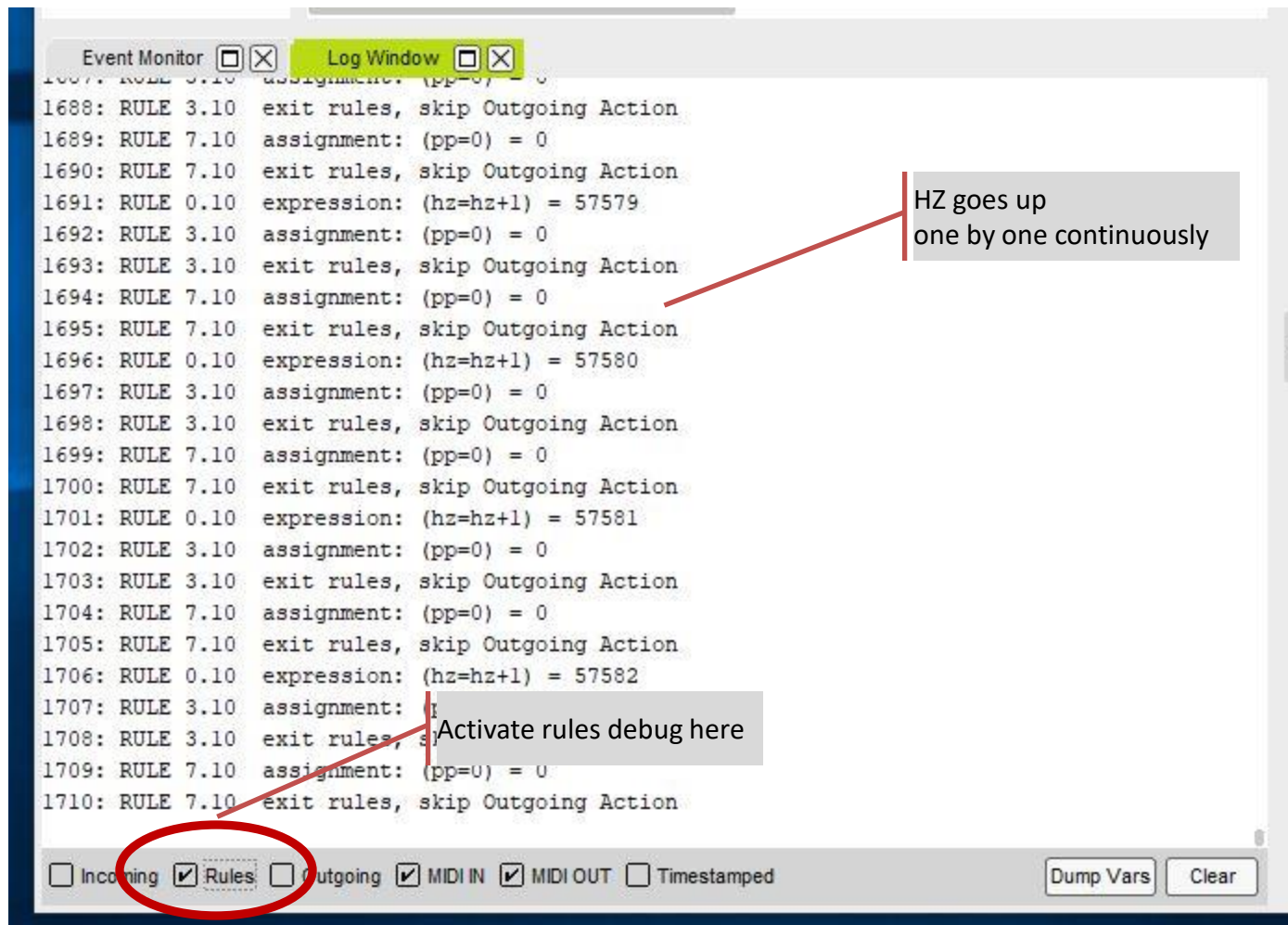
Pressing and releasing any button generates 4 log lines. This is always in the DDJ->BMT1 direction

Activate MIDI debug here

☐ Incoming ☐ Rules ☐ Outgoing ☒ MIDI IN ☒ MIDI OUT ☐ Timestamped

(Example for DDJ-1000; other DDJ are similar. See annexes for details)

BOME: confirm internal clock



(Please click “rules” again to stop the logging)



Step #4

MAP FOR TRAKTOR: INSTALLATION

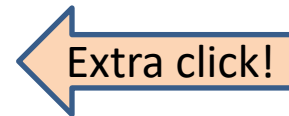
CREATE A BACKUP:

1. Note: the mapping replaces a lot of your settings. In any cases, Traktor always makes automatic backups in “Root_Dir\Backup\Settings”

1. Open Traktor
2. Click Settings
3. Click big “export button” on lower left corner
4. Ensure all settings are clicked
5. Save the file

INSTALL TRAKTOR MAPPING:

1. Click Settings
2. Click big “import button” on lower left corner
3. Accept all checks; PLUS additionally click the “Audio device settings”



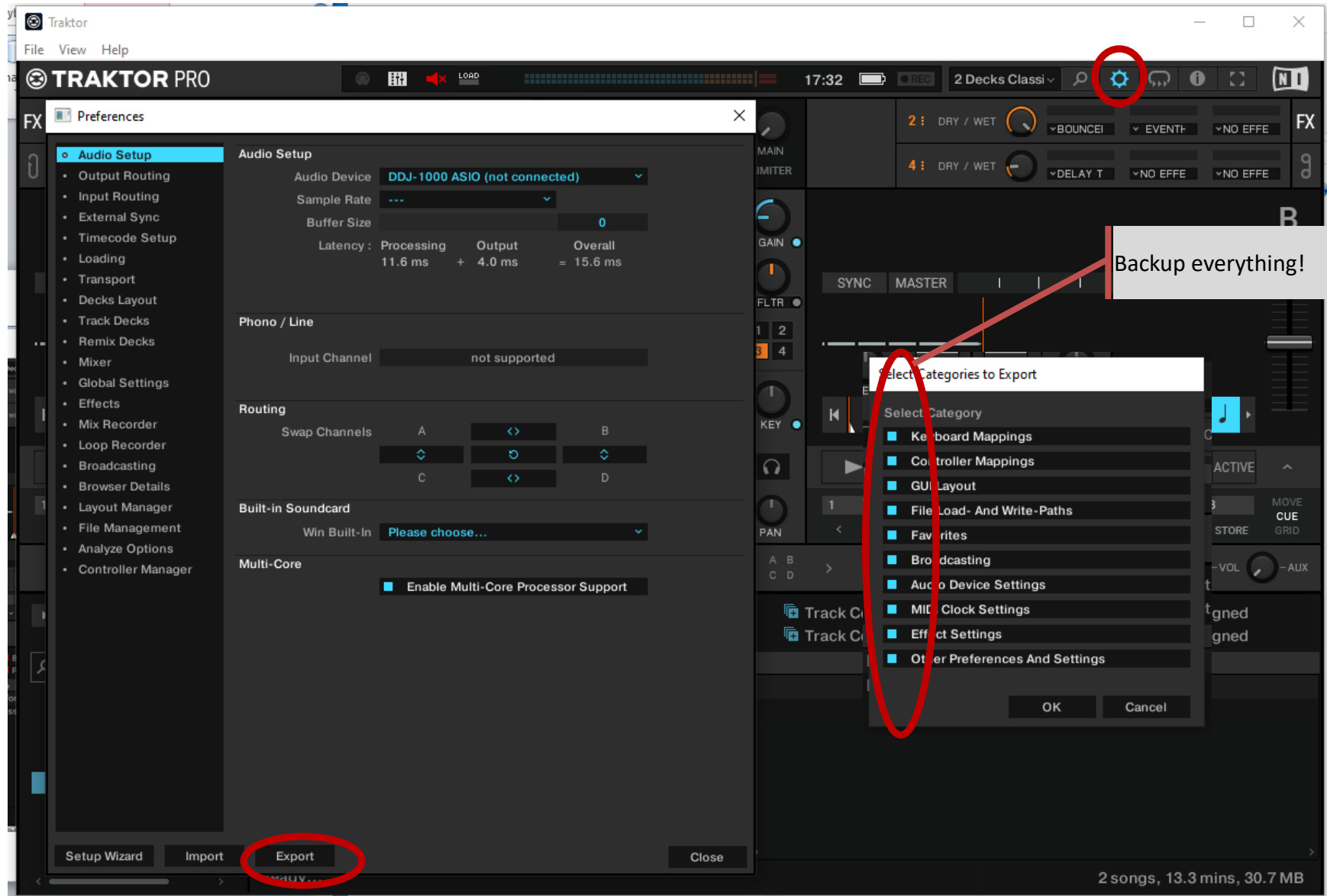
INSTALL TRAKTOR MAPPING (second time):

1. Repeat above process a second time. This is only to avoid a Traktor bug that gets the FX list wrong.

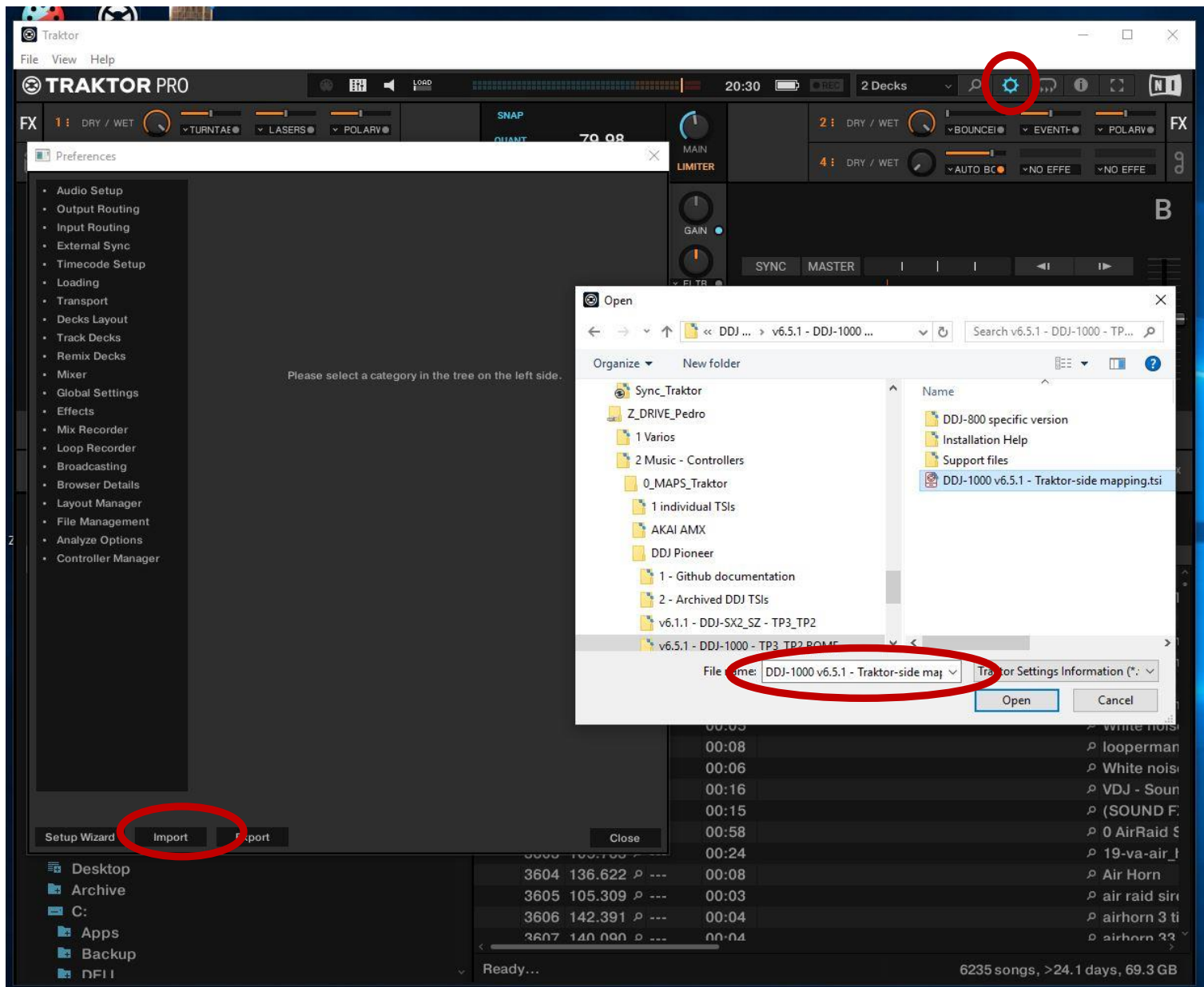
MAC-OS AUDIO OUTPUT ROUTING:

1. Set preferences / Output Routing / Internal to: 2 / 3 / 0 / 1

TRAKTOR: create backup of your settings

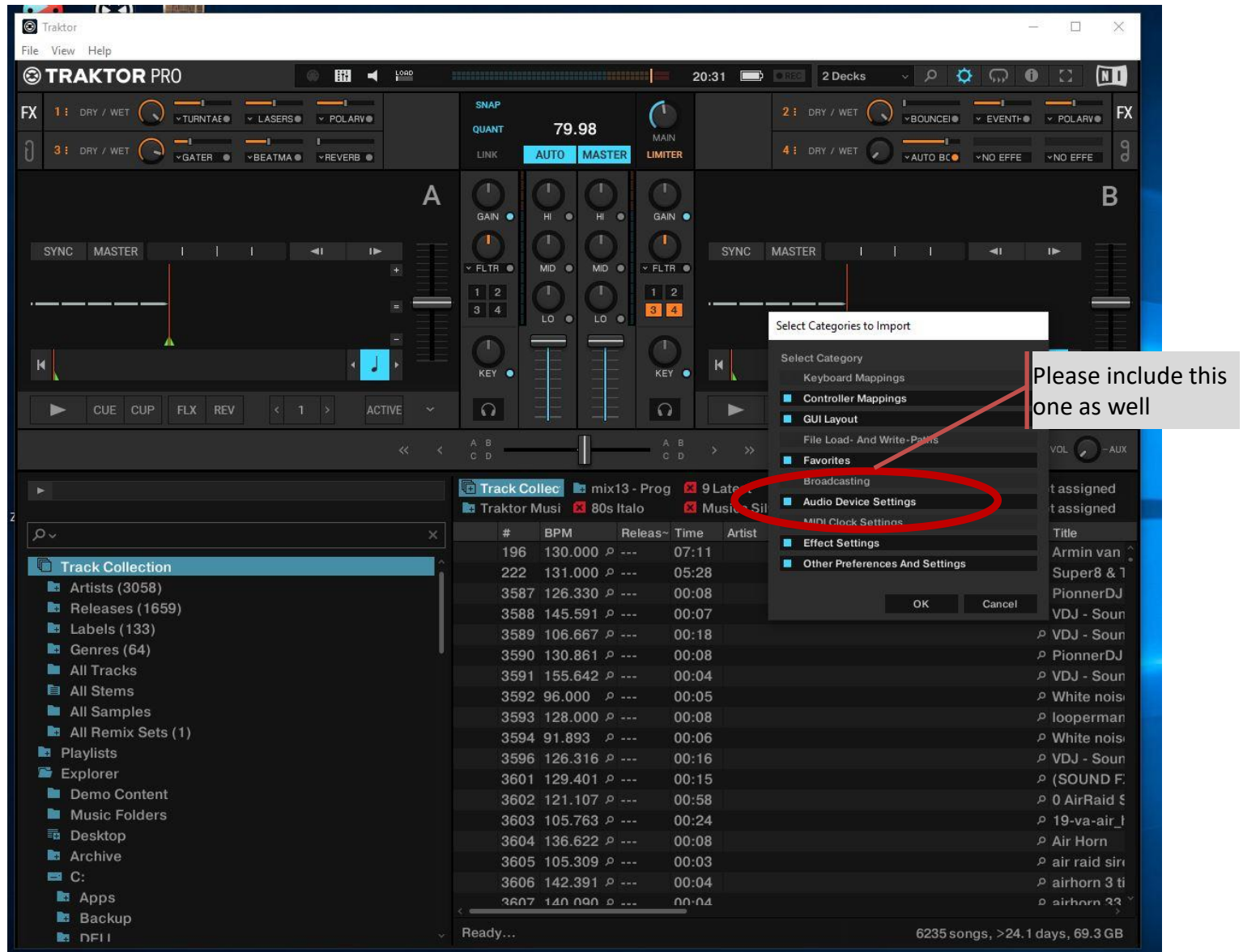


TRAKTOR: import mapping



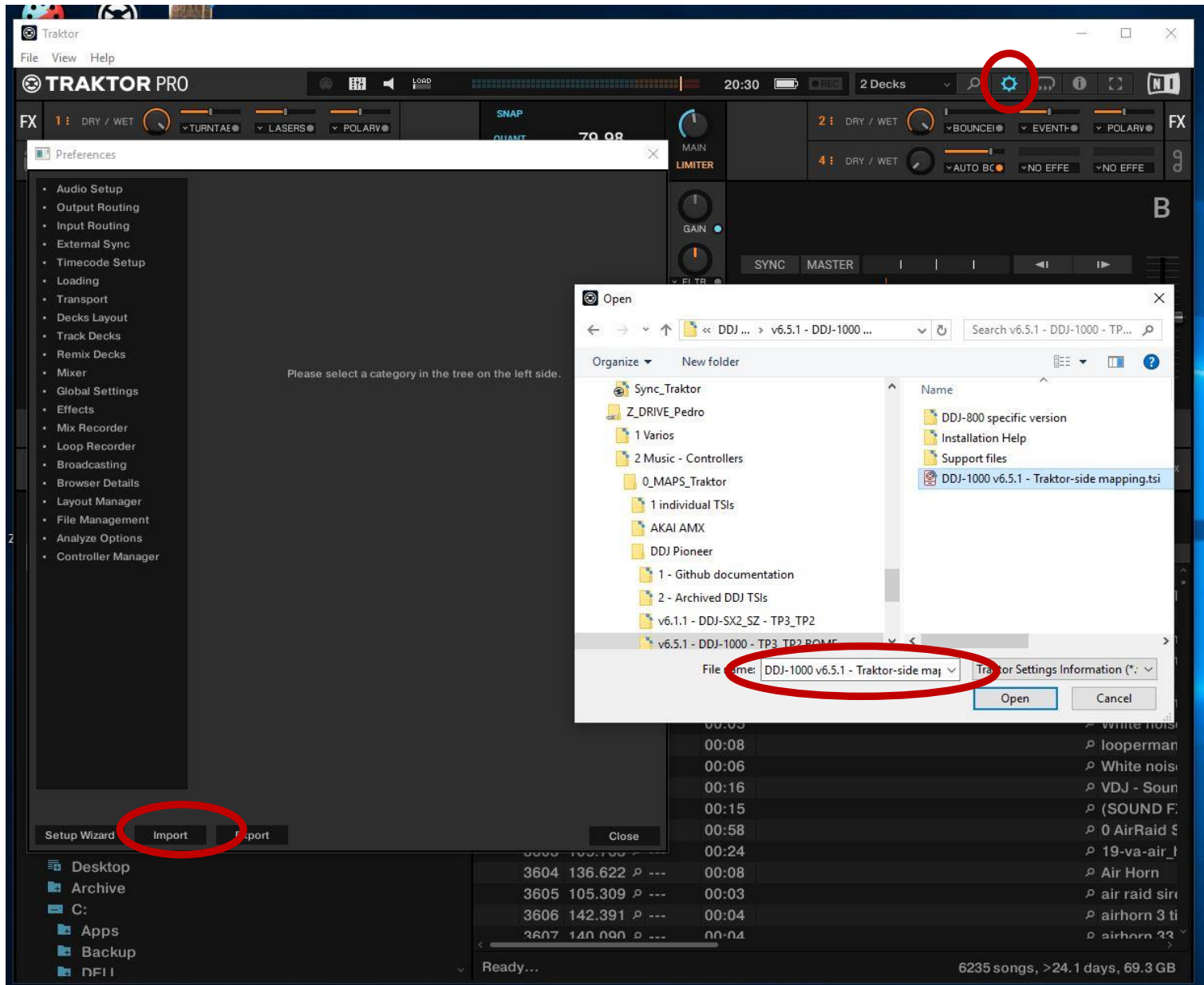
(Example for DDJ-1000; other DDJ are similar. See annexes for details)

TRAKTOR: click audio device config



(Example for DDJ-1000; other DDJ are similar. See annexes for details)

TRAKTOR: import mapping (second time)



(Example for DDJ-1000; other DDJ are similar. See annexes for details)

Step #5

MAP FOR TRAKTOR: VERIFICATION

TRAKTOR VERIFICATION:

Note: the Preferences window is now quite slow to open. This is another Traktor bug.

1. Confirm the audio device is “DDJ-1000 ASIO” / “DDJ-SZ ASIO” / etc
 1. Method: Settings ; audio setup ; confirm audio device
2. Confirm the Output routing
 1. Method: Settings ; output routing; confirm “internal”; confirm “3 / 4 / 1 / 2”
 2. (see annexes for other DDJs case)
3. Confirm that all 6x pages have exactly “Bome Midi Translator1”
 1. Method: Settings; controller manager; click each of the 6x pages one-by-one; check IN and OUT port
 2. **DO NOT CHANGE TO DDJ-1000 in the controller manager!!!**
 3. **DO NOT FORGET TO CONFIRM ALL 6x PAGES!**
4. Verify that sound is played
 1. Method: Load a track; click Cue and play/pause repeatedly
 2. Use shift+quantize to send a reset command to BOME
5. Verify that BOME sees all the messages
 1. Method: open the bome window; click the “CUE” button; verify that the BOME log displays at least 8x log lines per human click

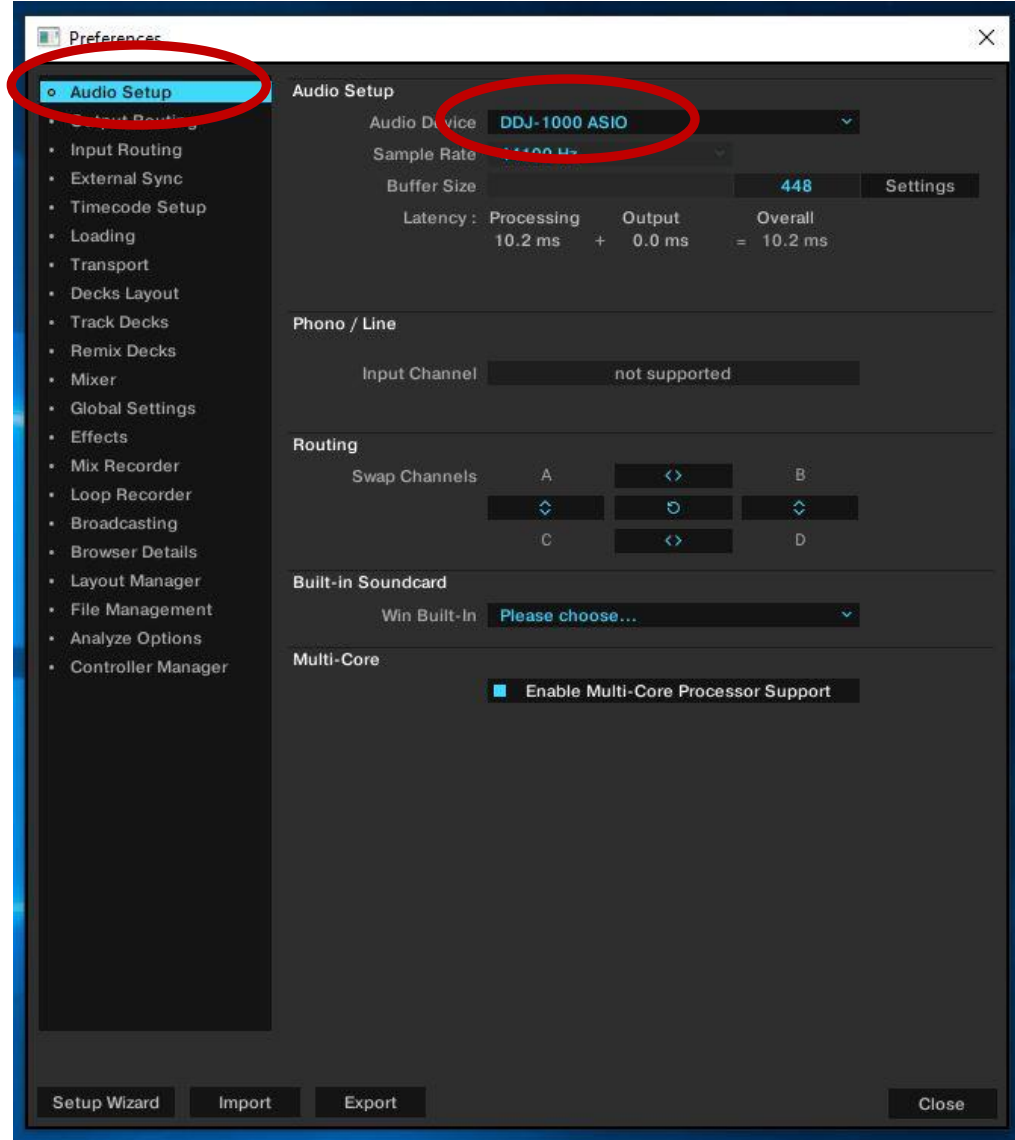


Beware #1!



Beware #2!

TRAKTOR: check audio device

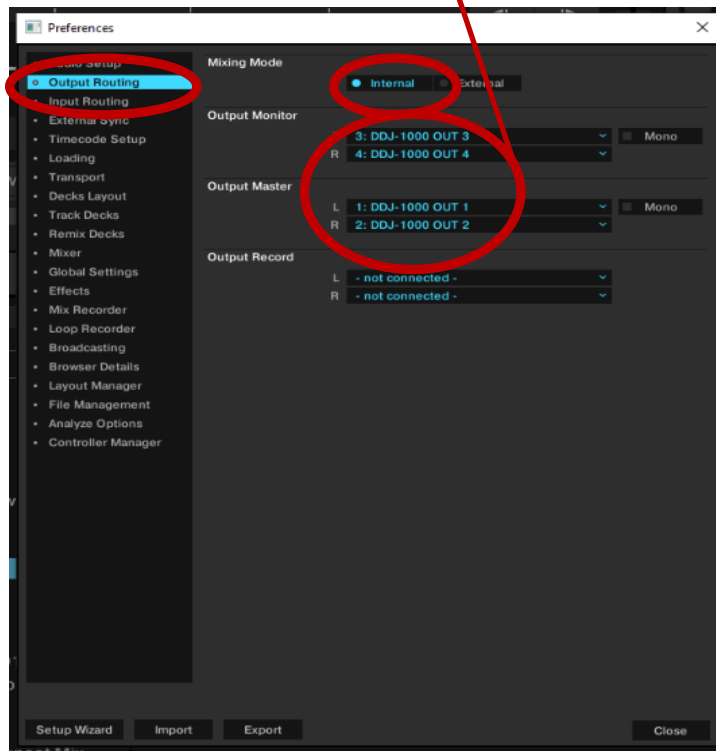


(Example for DDJ-1000; other DDJ are similar. See annexes for details)

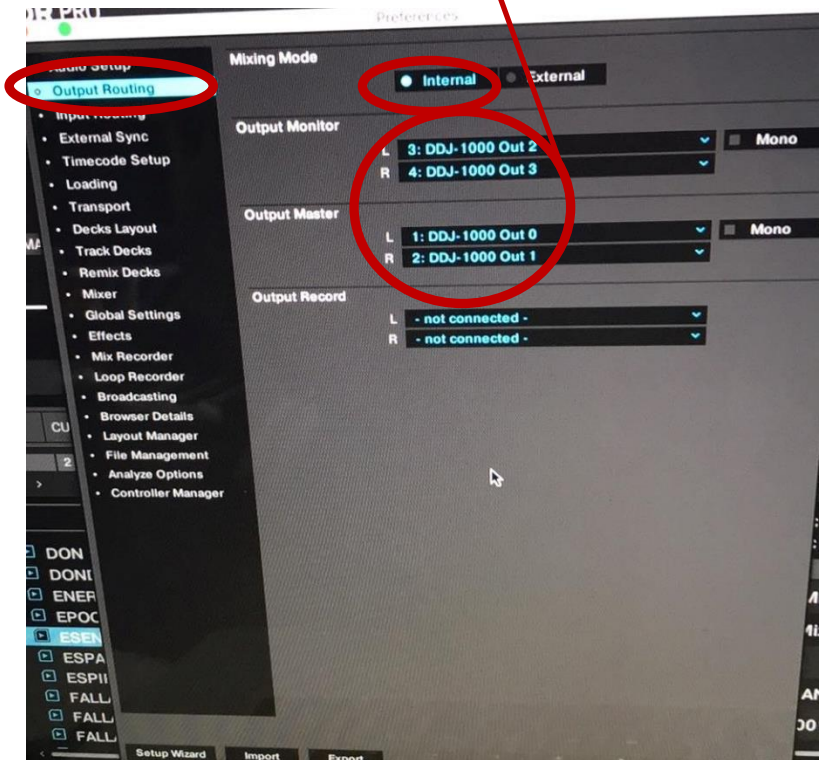
TRAKTOR: check output routing

Important: the below pictures is for DDJ-1000;
the other DDJ are different if they are internal or external mode
See annexes for specific pictures for your DDJ!

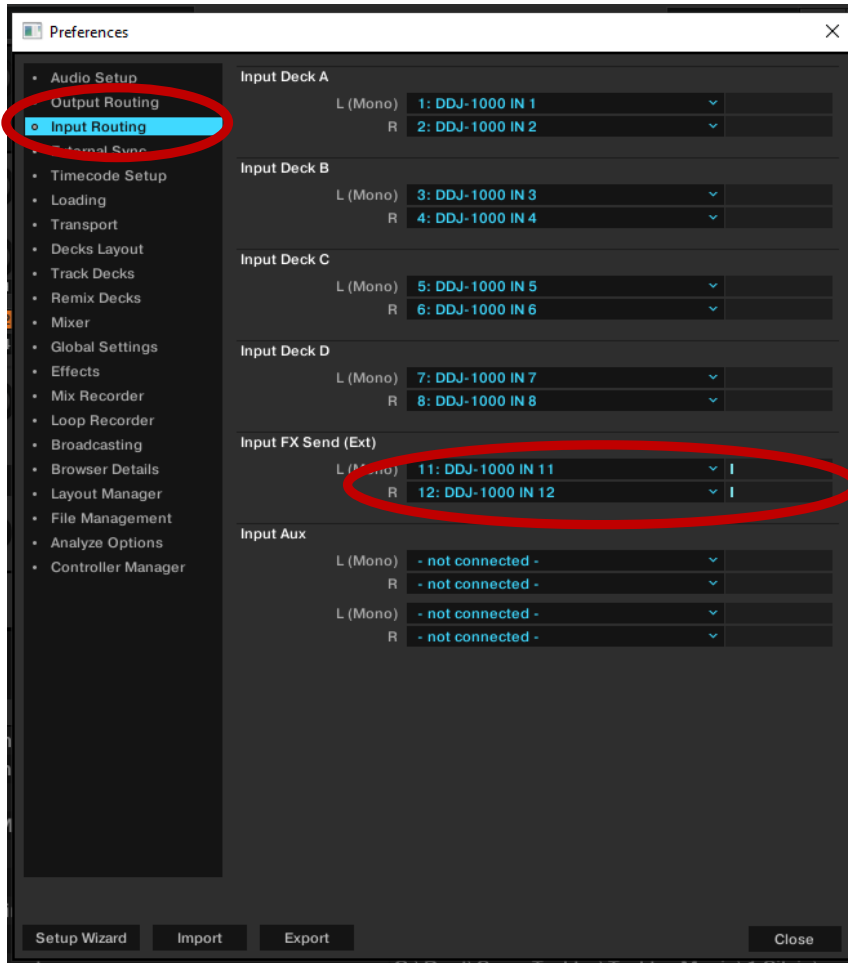
Windows: channels
are 3 / 4 / 1 / 2



MacOS: channels
are 2 / 3 / 0 / 1



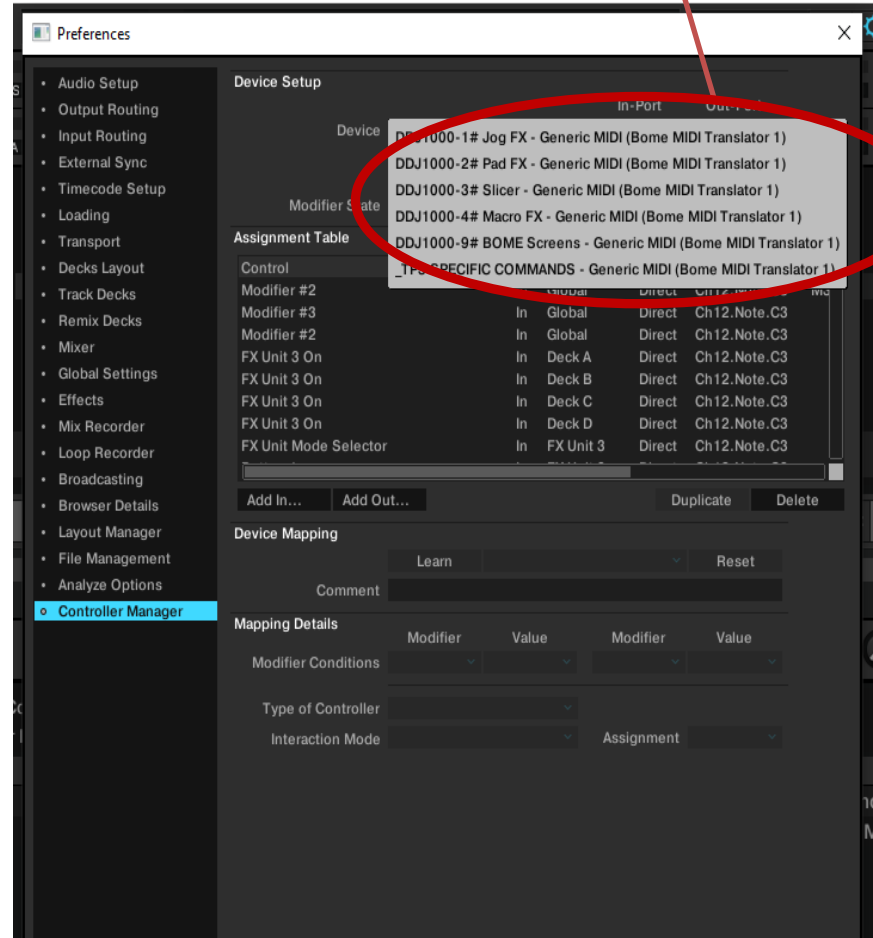
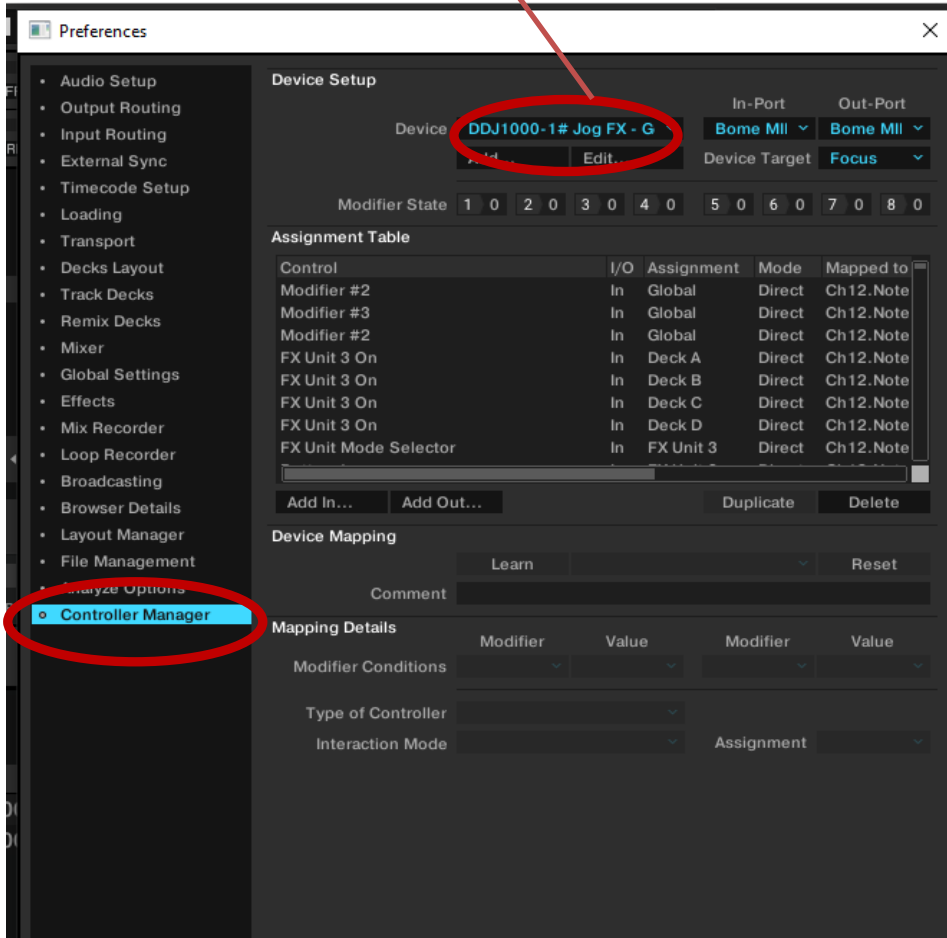
TRAKTOR: recording settings



TRAKTOR: check MIDI device is long format

first click here

Both IN and OUT = Long format
For ALL 6 PAGES!



BOME: confirm bidirectional flow

Event Monitor ☐ ☒ Log Window ☐ ☒

```
1: MIDI IN [DDJ-1000]: 91 35 7F
2: MIDI OUT [Bome MIDI Translator 1 Virtual Out]: 91 35 7F
3: MIDI IN [Bome MIDI Translator 1 Virtual In]: 90 6A 00
4: MIDI OUT [DDJ-1000]: 90 6A 00
5: MIDI IN [Bome MIDI Translator 1 Virtual In]: 90 35 00
6: MIDI OUT [DDJ-1000]: 90 35 00
7: MIDI IN [Bome MIDI Translator 1 Virtual In]: 91 35 00
8: MIDI OUT [DDJ-1000]: 91 35 00
9: MIDI IN [Bome MIDI Translator 1 Virtual In]: 91 6A 00
10: MIDI OUT [DDJ-1000]: 91 6A 00
11: MIDI IN [Bome MIDI Translator 1 Virtual In]: 92 35 00
12: MIDI OUT [DDJ-1000]: 92 35 00
13: MIDI IN [Bome MIDI Translator 1 Virtual In]: 92 6A 00
14: MIDI OUT [DDJ-1000]: 92 6A 00
15: MIDI IN [Bome MIDI Translator 1 Virtual In]: 93 6A 00
16: MIDI OUT [DDJ-1000]: 93 6A 00
17: MIDI IN [Bome MIDI Translator 1 Virtual In]: 93 35 00
18: MIDI OUT [DDJ-1000]: 93 35 00
19: MIDI IN [DDJ-1000]: 91 35 00
20: MIDI OUT [Bome MIDI Translator 1 Virtual Out]: 91 35 00
```

☐ Incoming ☐ Rules ☐ Outgoing ☒ MIDI IN ☒ MIDI OUT ☐ Timestamped

Dump Vars Clear

Pressing and releasing any button generates at least 8x log lines.
This is both in the DDJ->BMT1 direction and the BMT1->DDJ direction

Stop "rules" log

Step #6

PROPER START SEQUENCE

PROPER START-UP SEQUENCE IF YOU HAVE PROBLEMS:

0) Stop everything

1) Start Laptop

2) Start BOME

3) Start your DDJ

4) Start Traktor

IF ITS STILL NOT WORKING #1

A) AUDIO doesn't work:

Re-confirm the DDJ-1000 is your audio device

Re-confirm output routing is 3/4/1/2 in windows and 2/3/0/1 in macOS

Re-confirm Rekordbox performance mode works

B) AUDIO works - but MIDI doesn't :

Re-confirm you have BOME in the macOS accessibility security

Re-confirm you have "Bome midi Translator 1" on all 6x pages in Traktor

C) MIDI works but jog screens / Leds doesn't :

Reset the jog Screens using shift+quantize

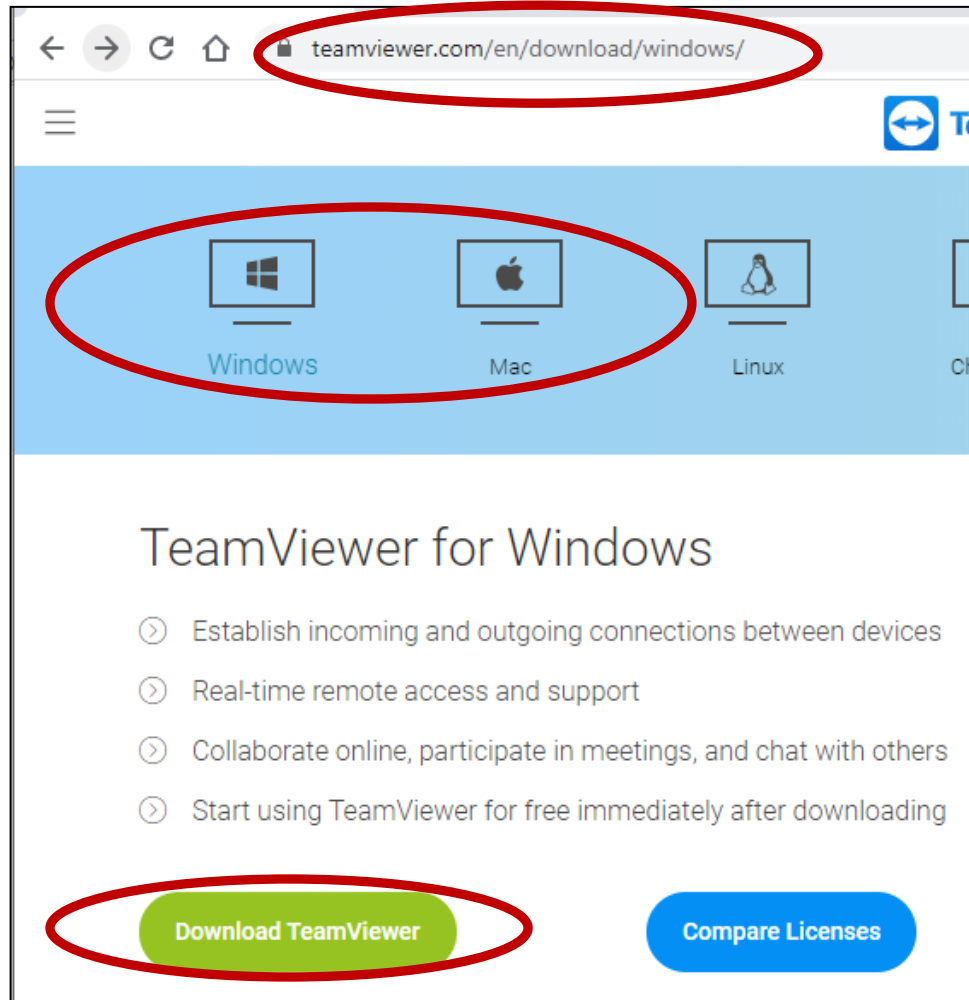
Start components in this order: #1 Laptop / #2 BOME / #3 DDJ / #4 Traktor

IF ITS STILL NOT WORKING #2

*For a small fee I will install this mapping remotely for you.
Interested? send an email to pedro.estrela@gmail.com*

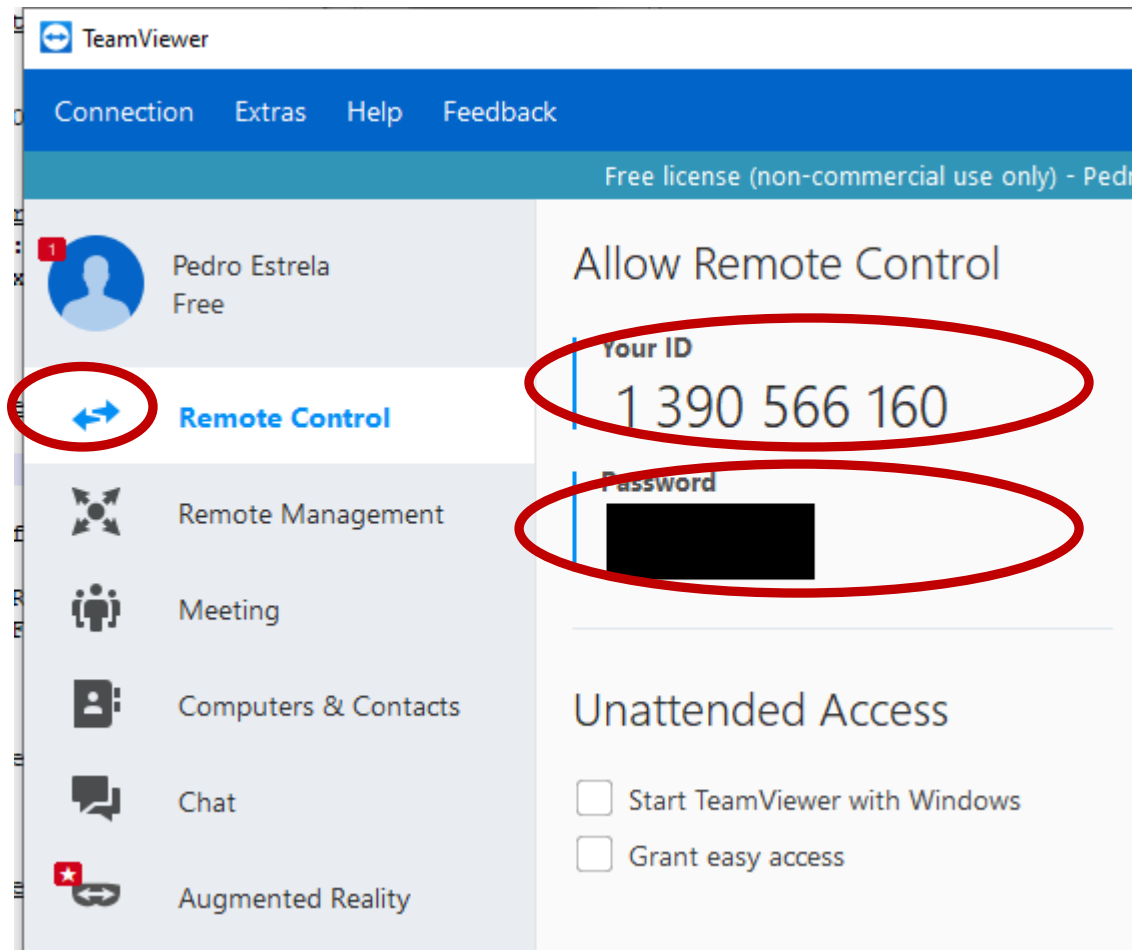
TEAMVIEWER SOFTWARE INSTALLATION:

1. Teamviewer is a **free** way to remote control
2. Its also very **simple**. No login needed.
3. Download link: <https://www.teamviewer.com/en/download/>



TEAMVIEWER REMOTE CONTROL:

1. Run the software
2. Send me your teamviwer ID and password



ANNEXES

IF YOU DON'T WANT BOME

BOME is a requirement for all my latest mappings.

On the Pro side it enables **a)** Jog Screens, **b)** Turntable FX, **c)** Tempo range adjust, etc etc

On the Con side **a)** it costs an extra 60eur, **b)** it is harder to install

If you don't want BOME just install an old version of the mapping instead.

See file "Technical Info - DDJ Controllers.txt" to see which features you will lose.

Controller	With BOME	Without BOME
DDJ-1000/800	V6.6.0	v6.3.3
DDJ-SX2	v6.7.0	V6.1.7
DDJ-SZ	v6.7.0	V6.1.7
DDJ-1000SRT	v6.7.0 (note1)	V6.1.2
XDJ-XZ	V6.1.4	v6.1.4 (note2)

note1: jog screens are not supported by a decision of the Serato company

note2: XDJ-XZ can run without BOME. Jogs and MixerFX will be missing

DDJ-1000: forced MIDI mode

In my experience there is **no need** to set the unit to forced MIDI mode.

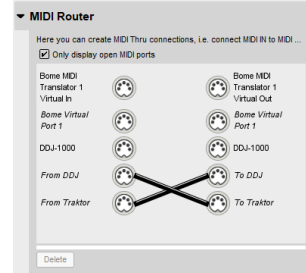
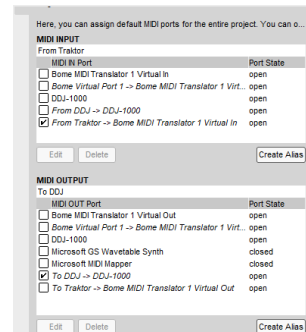
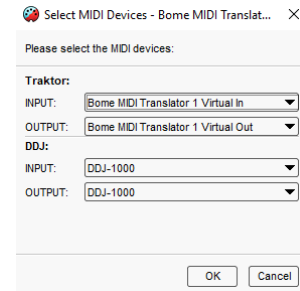
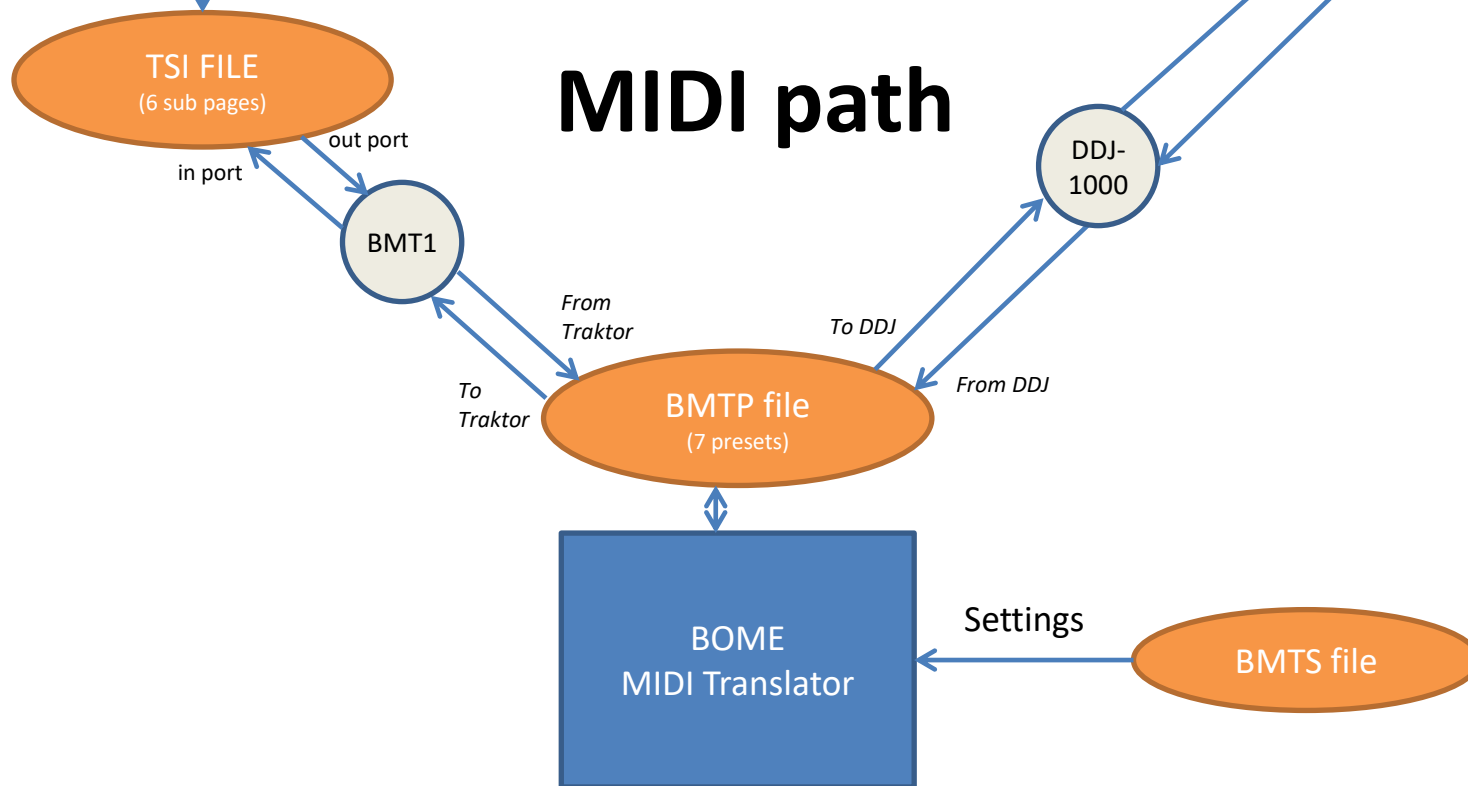
If this is ever necessary, instructions are on page 26 of the DDJ-1000 manual:

- no USB cable
- power off DDJ
- Press left play + left shift + turn on DDJ
- left Slip Reverse:
 - Off = auto mode
 - ON = forced mode
- Power off DDJ
- Power ON DDJ
- insert USB cable.

AUDIO path



MIDI path

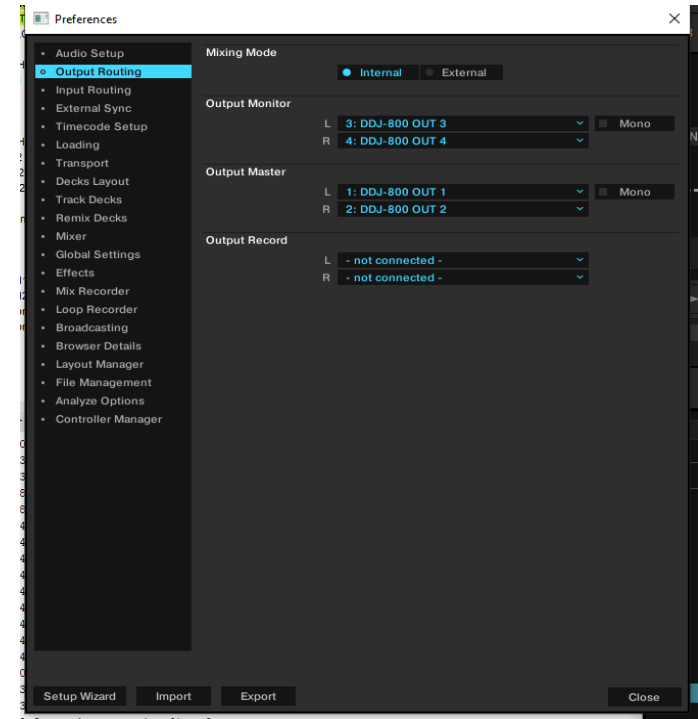
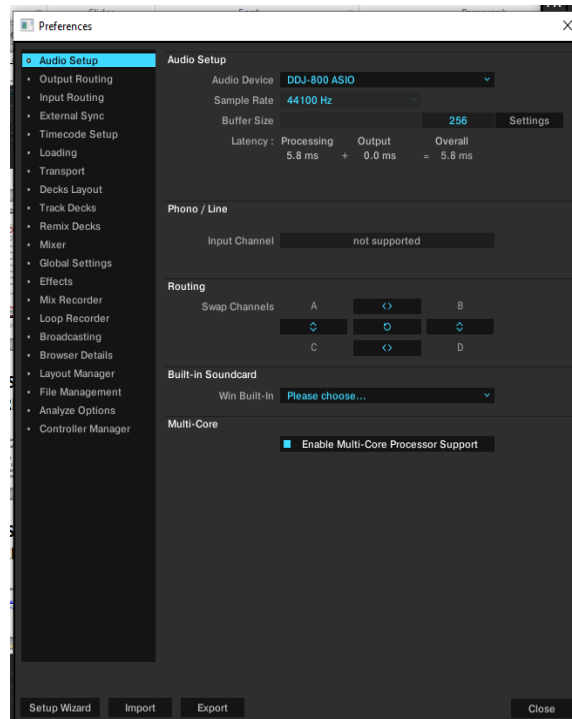
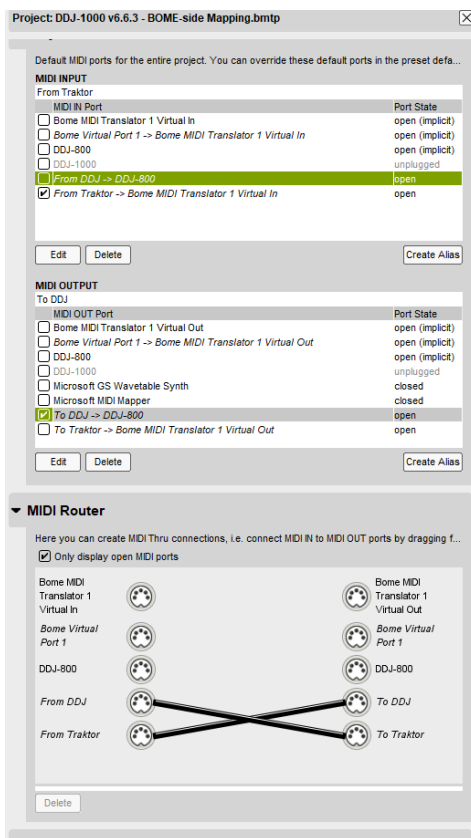


ANNEX: DDJ-800

DDJ-800 specific notes:

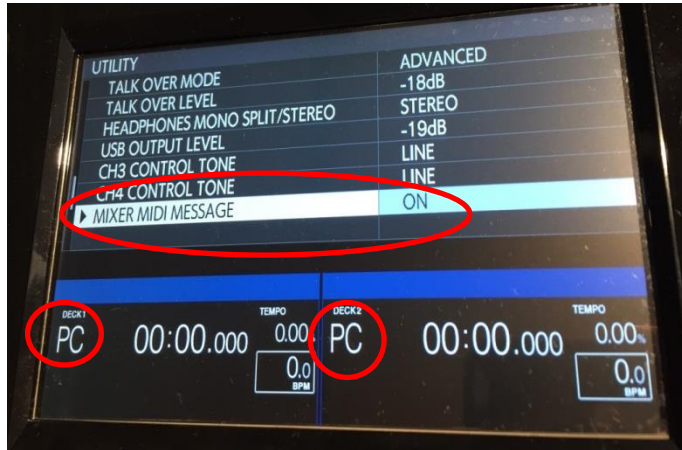
- Firmware 1.01 (april 2019) has a bug that precludes using the jogs screens.
- This was reported and acknowledged by Pioneer.

<https://www.pioneerdj.com/en-us/support/software/controller/ddj-800/>

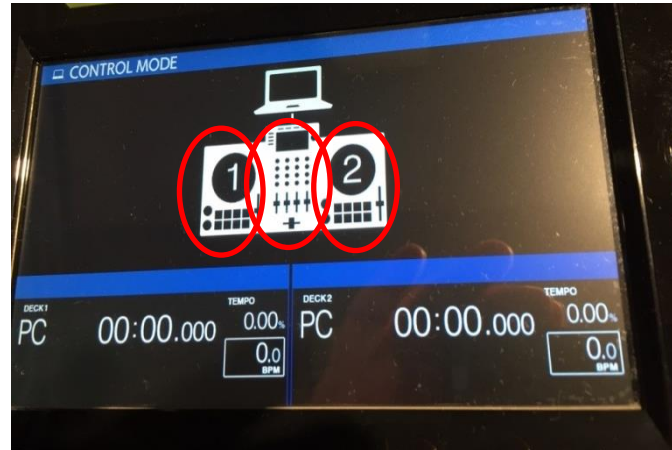


ANNEX: XDJ-XZ (1/3)

Device Config:



To link: press browse / press Link / press Load1+2



More info: See page 128 of the Pioneer Manual:

<https://github.com/pestrela/music/blob/master/ddj/4%20Manuals/XDJ-XZ%20-%20Full%20Manual.pdf>

XDJ-XZ features video:

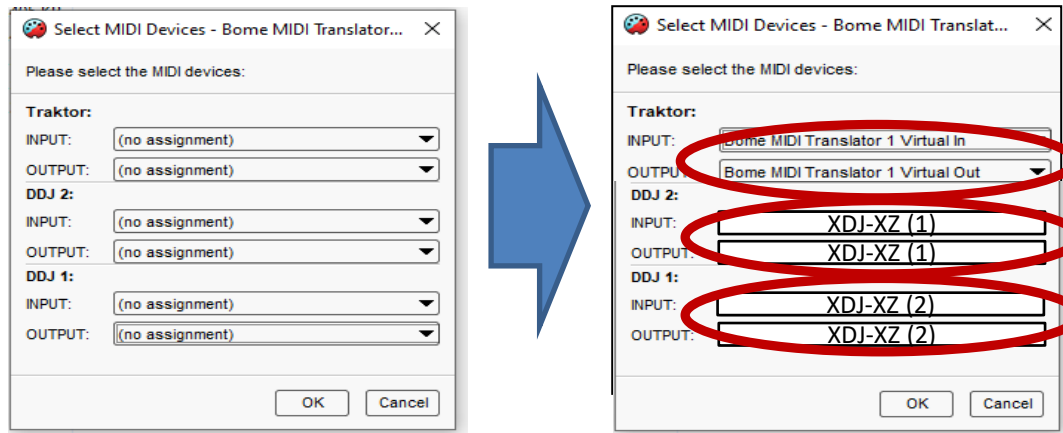
<https://www.youtube.com/watch?v=7EPfY9bGGIw&list=PLIlvTGzSxIOUV1oJfRDL4fYY9oRyLkBik&index=1>

BOME installation video:

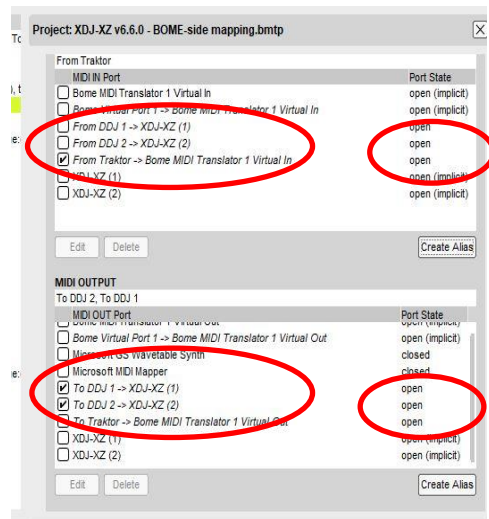
https://youtu.be/MbGP_ECnWiQ

ANNEX: XDJ-XZ (2/3)

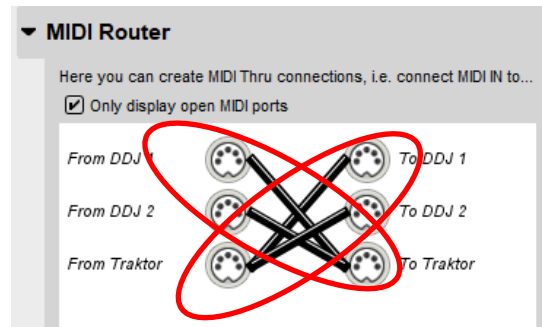
BOME aliases:



Proper BOME config:



Proper BOME config:



Proper BOME log:

```
795: MIDIManager stopped.
796: MIDIManager started.
797: Opened MIDI OUTPUT 'Bome MIDI Translator 1 Virtual Out'
798: Opened MIDI OUTPUT 'XDJ-XZ (2)'
799: Opened MIDI OUTPUT 'XDJ-XZ (1)'
800: Opened MIDI INPUT 'Bome MIDI Translator 1 Virtual In'
801: Opened MIDI INPUT 'XDJ-XZ (2)'
802: Opened MIDI INPUT 'XDJ-XZ (1)'

☐ Incoming ☐ Rules ☐ Outgoing ☒ MIDI IN ☒ MIDI OUT ☐ Timestamped
```

ANNEX: XDJ-XZ (3/3)

Traktor config:

The image displays three screenshots of the Traktor software preferences window, specifically configured for the XDJ-XZ. Red circles highlight key settings in each panel.

Left Screenshot: Audio Setup

- Audio Setup** (highlighted in the sidebar)
- Audio Device**: XDJ-XZ ASIO (highlighted)
- Sample Rate**: 44100 Hz
- Buffer Size**: 256
- Latency**: Processing 5.8 ms, Output 0.0 ms, Overall 5.8 ms
- Routing**: Swap Channels (A, B, C, D) buttons
- Built-in Soundcard**: Win Built-in Realtek Audio
- Multi-Core**: Enable Multi-Core Processor Support (checked)

Middle Screenshot: Output Routing

- Output Routing** (highlighted in the sidebar)
- Mixing Mode**: Internal / External (External is selected and highlighted)
- Output Deck A**: L: XDJ-XZ OUT 1, R: XDJ-XZ OUT 2 (highlighted)
- Output Deck B**: L: XDJ-XZ OUT 3, R: XDJ-XZ OUT 4 (highlighted)
- Output Deck C**: L: XDJ-XZ OUT 5, R: XDJ-XZ OUT 6 (highlighted)
- Output Deck D**: L: XDJ-XZ OUT 7, R: XDJ-XZ OUT 8 (highlighted)
- Output FX Return**: L: not connected, R: not connected

Right Screenshot: Controller Manager

- Controller Manager** (highlighted in the sidebar)
- Device Setup**: XDJ-XZ #1 JOG-FX - Generic MIDI (Bome MIDI Translator 1) (highlighted)
- Assignment Table**: XDJ-XZ #2 PAD-FX - Generic MIDI (Bome MIDI Translator 1) (highlighted)
- Mapping Details**: Modifier Conditions, Type of Controller (Assign 1), Interaction Mode (Assign 1), Button Options (Set to value: HotCue 1, Invert)

ANNEX: DDJ-1000SRT (1)

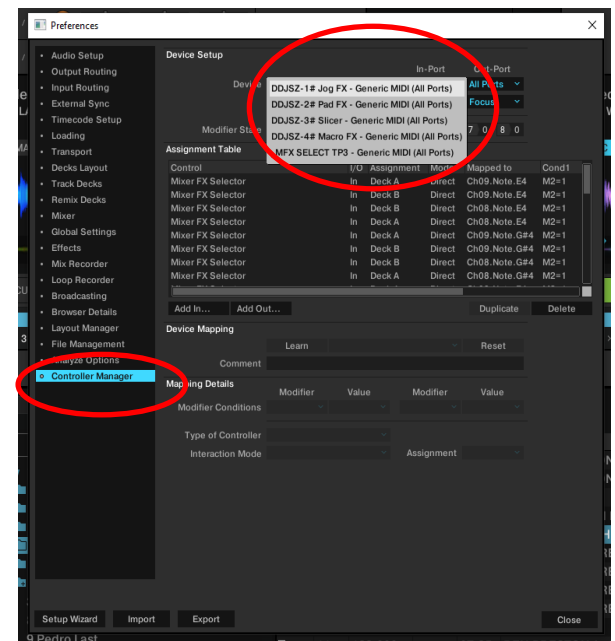
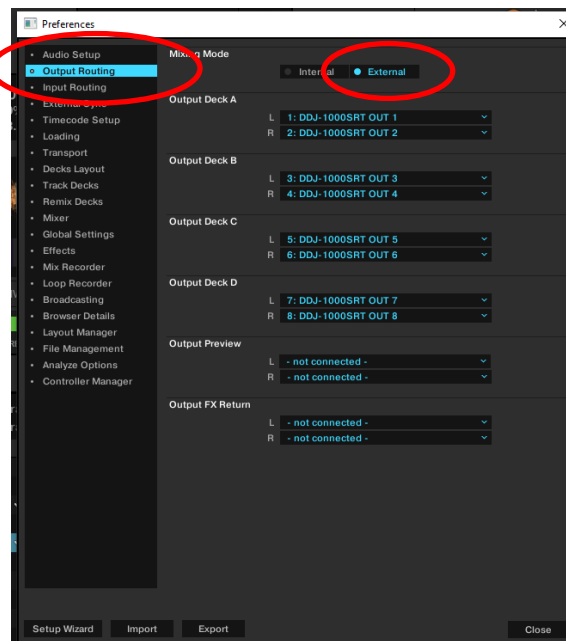
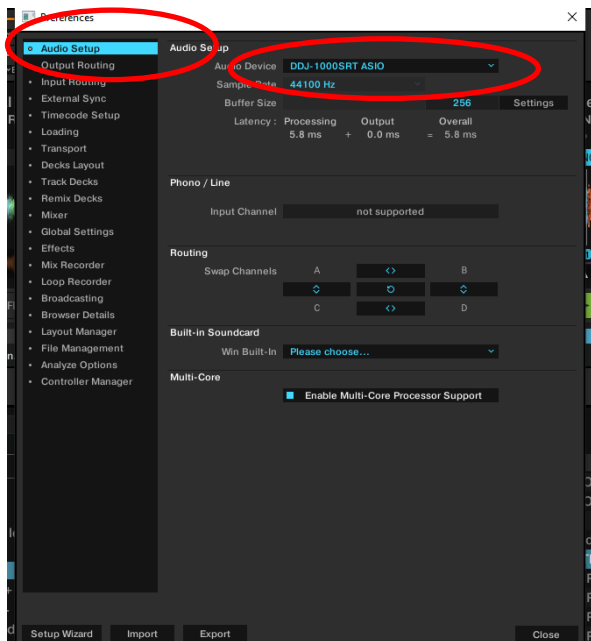
DDJ-1000SRT specific instructions for the Traktor mapping (for v6.1.X – not yet updated to V6.7.0 BOME)

Please use the specific TSI for the DDJ-1000SRT. This is the same mapping as the DDJ-SZ mapping, but with small customizations to make it work well on the SRT:

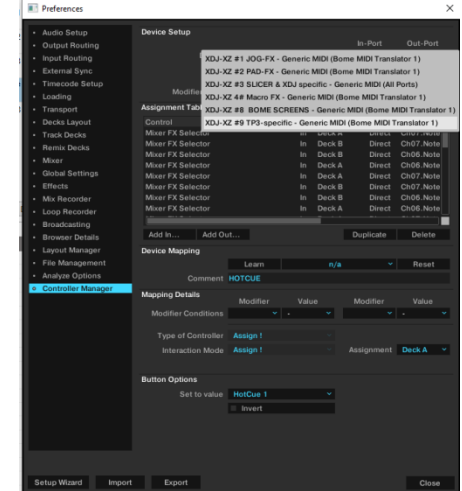
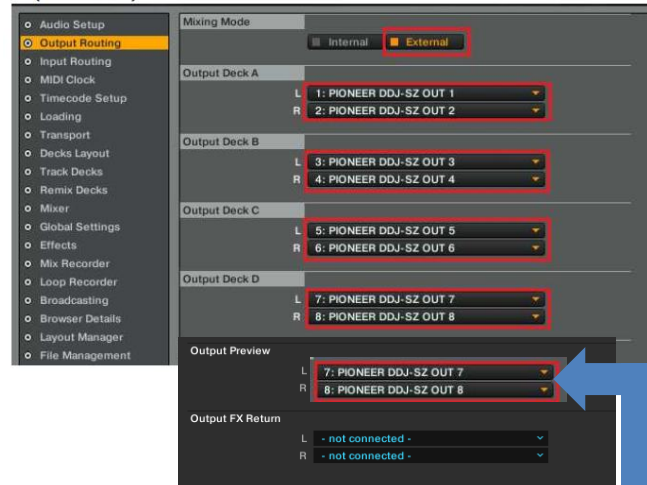
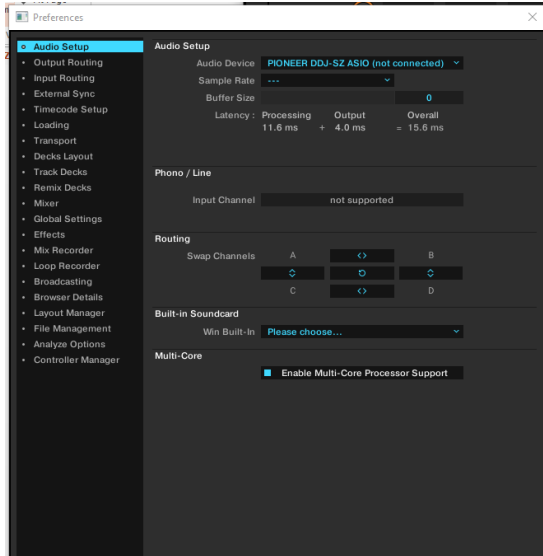
- Jog screens are NOT supported. This is because they are not documented on the Pioneer MIDI map file. Please request this in <https://serato.com/forum/discussion/1736390>
- Please put your jog weight to “heavy”
 - This will significantly improve scratching and jogFX
- Audio device in external mode.
 - This means that ALL the pioneer effects (both colorFX and beatFX work for USB sources
 - See next slides for config
- Please avoid VINYL OFF mode. The TSI disables jog touch in this case, but the jog loses resolution compared to VINYL ON mode
- Beatjump buttons added. Please use shift+IN/OUT to configure the loop size (=jump size)
- BeatFX ON/OFF is now for pioneer beatFX only
- Automatic layout changing was removed

ANNEX: DDJ-1000SRT (2)

(note: pictures are for v6.1.X; v6.7.0 will also work, but was not tested yet)



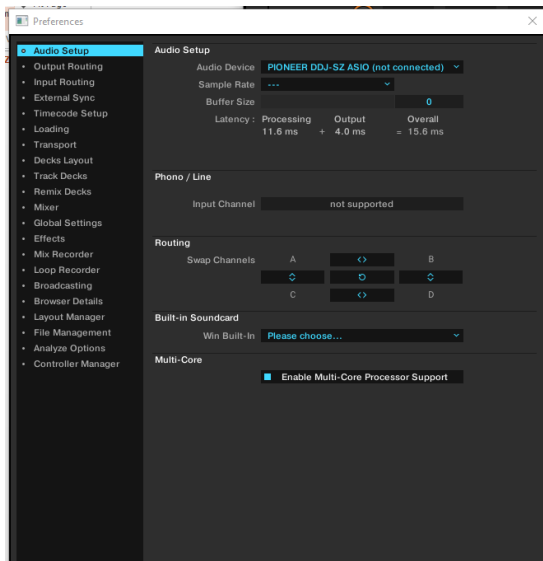
ANNEX: DDJ-SZ



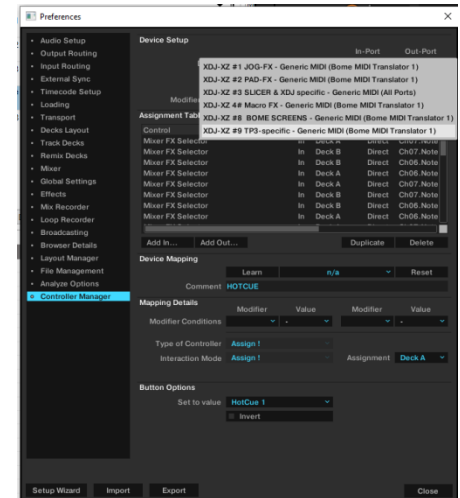
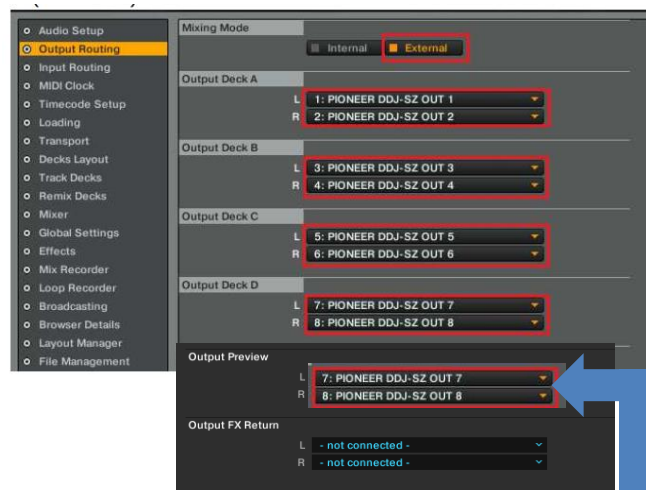
SET PREVIEW TO
SAME VALUES
AS DECK 4!

ANNEX: DDJ-SX3

(Select SX3 device here)



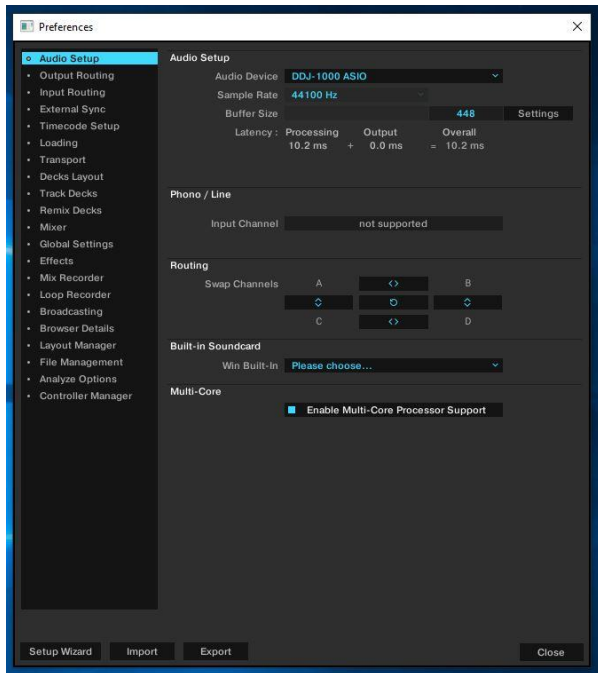
(Select SX3 device here)



SET PREVIEW TO
SAME VALUES
AS DECK 4!

ANNEX: DDJ-SX2

(Select SX2 device here)



(Put SX2 channels here)

