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After having my request here for a Wire Axis mostly ignored

http://www.wiremod.com/showthread.php?t=1780

My Norwegian partner in crime Longhat (aka-kirderf aka-longy) and I went into his server and after a few hours and many do-overs banged out a working clutch to suffice until our request is fulfilled. Below is a very rough cut video of the events of that night.

<div align="center">---->>>> Longhat and I Building the Clutch Video <<<<-----</pre>

http://stage6.divx.com/Game-Caps/video/145...I-make-a-Clutch </div>

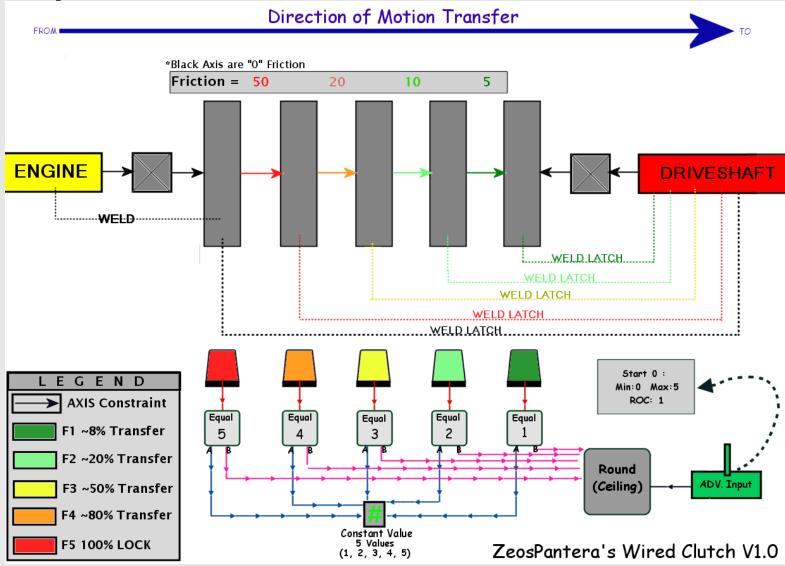
The end result was my design and long's expression to control the wire latches to operate the clutch. He is a wire wiz and I know the games physics like the back of my hand. It worked well except the fact that to activate / deactivate the clutch toggle you needed to catch the damn car and push a button. That aside we made the car with an A-dup of one of my Boxer-6 engines (the one from the tut I believe) and I made a simple rear differental to get the wheels on. So that was that, he went to bed and I promised to work on the "design" further and do some recording in single-player where there would be no lag.

20 Hours later..

I loaded the Dup of the car He and I had worked on into a freshly loaded Huge construct and BAM - Spazz. The Car was a simple design at best so I decided to build it from scratch once again starting with my A-Dup of the 6 cylinder

boxer engine. I then rebuilt the clutch with some altered friction settings and one more plate and set all the weld latches. Longhat/Kirderf had given me the expression he used on the test car but for the life of me I couldn't edit it to work with the new clutch layout. He being 6 hours ahead of me it was 5am over there so no chance of getting help. Being of sound enough mind to deal with a simple wire tasks I came up with a simple wire setup that took care of my clutch with surprising efficiency. Some point now as your reading this I hope to get long to rewrite the expression to work again with the new design. Below is the schematic of the wire setup I used with all the constraints for making the clutch with basic wiring.

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If you don't understand it. Too bad, get smarter. When Long releases the new expression you guys should just be able to punch it in and go. The physical part is pretty simple if you have smartsnap.

So I had finished attaching the NEW clutch to the engine and a simple gear reduction to the Clutch. I then ran a quick test to better visualize the friction steps I used. In this video the Phx beam is axis'd and I upped the weight to 500.

<div align="center">
---->>>> Clutch Torque Video <<<<-----</pre>

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Ruffle failed to load the Flash SWF file.

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Now staring at that set of gears I started thinking about the illusive "transmission" everyone is always asking for on cars. Being me I have knowledge of real transmissions and an idea of how to do it, but the PHX gears were the key, they had to fit. As it turned out PHX really knew what he was doing when he made his model pack because a small and large gear line up their centers at the exact same point as 2 medium gears. Bingo, my tranny idea was feasible. It took literally 12 minutes to put the whole thing together. I wired it in a similar fashion to the way I wired the clutch only it had to go 1 2 3 weld latch's instead of 0 1 2 3 4 5. Here is another quick test to show just the transmission working to spin the back drive-shaft at different speeds with a constant engine RPM. <div align="center">

---->>>> 3 Speed Transmission Video <<<<-----

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The main systems were in place and I quickly built a front steering assembly and rear gears. All was going well and I was saving the game and making advanced dups of the car regularly. Occasionally I would get a lua error and I would switch to the console to view it. This time though I would fuck up BAD! Instead of hitting resume I missed and hit disconnect. No "are you sure" message. Just gone. Most of you are thinking, eh, no big deal he saved it. And on the one hand you have a point I had just saved it. However you all don't have MY install of Gmod. When you build something involving wire, and Adup's and props with no gravity YOU ARE fine. When I do that the saves FAIL. I can load them but most stools come up with a Lua Stool:94 nil value error or whatnot. So even though the car was right there I couldn't weld or change weights or use rope. I was forced to load an empty map and the last A-dup I created. That was almost no better then the save. Yes, I could use all the tools now, but you know how temperamental Dups can be. The engine had spazzing cylinders, the tranny gears were getting stuck and some no-collides didn't carry. Bottom line I had to remove and completely replace the boxer motor (which was fun) redo

the transmission gears, and reweld most of the support structure. That along with all the little shit and rewiring all the displays and such cost me **two and a half HOURS!** It was 4:30 AM by the time the car was ready to roll again. And I knew it wasn't as well put together as the original because of the unknown banging from the front end (you will hear in the video). It does get the job done as being the first contraption to be engine powered with a real clutch and a real working transmission. [all be it 3rd is a joke gear One to three ratio. HA]

Looking back after watching this video I can't help but think maybe I should have raised the thruster limit up from 1200 max thrust per cylinder. I guess I was too afraid of spazzing in an un-loadable save. Next time I feel like spending 2 hours to get her going maybe I will try it.

Also, the weight of this car is immense. I made every gear and every beam a gear was attached to weigh 100units OR 250 for critical components. And the front steering assembly (wheels, frame and swing arms) all weigh 400 to support the massive engine weight(2000+). I would have used the Phys Properties tool to make it all no gravity but I found that causing alot of spazz so I steered clear to avoid catastrophe. Just keep that all in mind when you think of writing "Why is it SO SLOW?" It weights more then a red container(8000) maybe more.

<div align="center">

---->>>> THE DRIVING VIDEO <<<<-----

"Google is taking forever to process, I will embed it here when it finishes. Until then you are all stuck with the perfect quality of Stage6 which I recommend anyways!"

http://stage6.divx.com/Game-Caps/video/145...teering,-Engine)

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More Pictures!

http://s4.photobucket.com/albums/y136/F12Bwth4/Gmod10/ << Main Pictures Here



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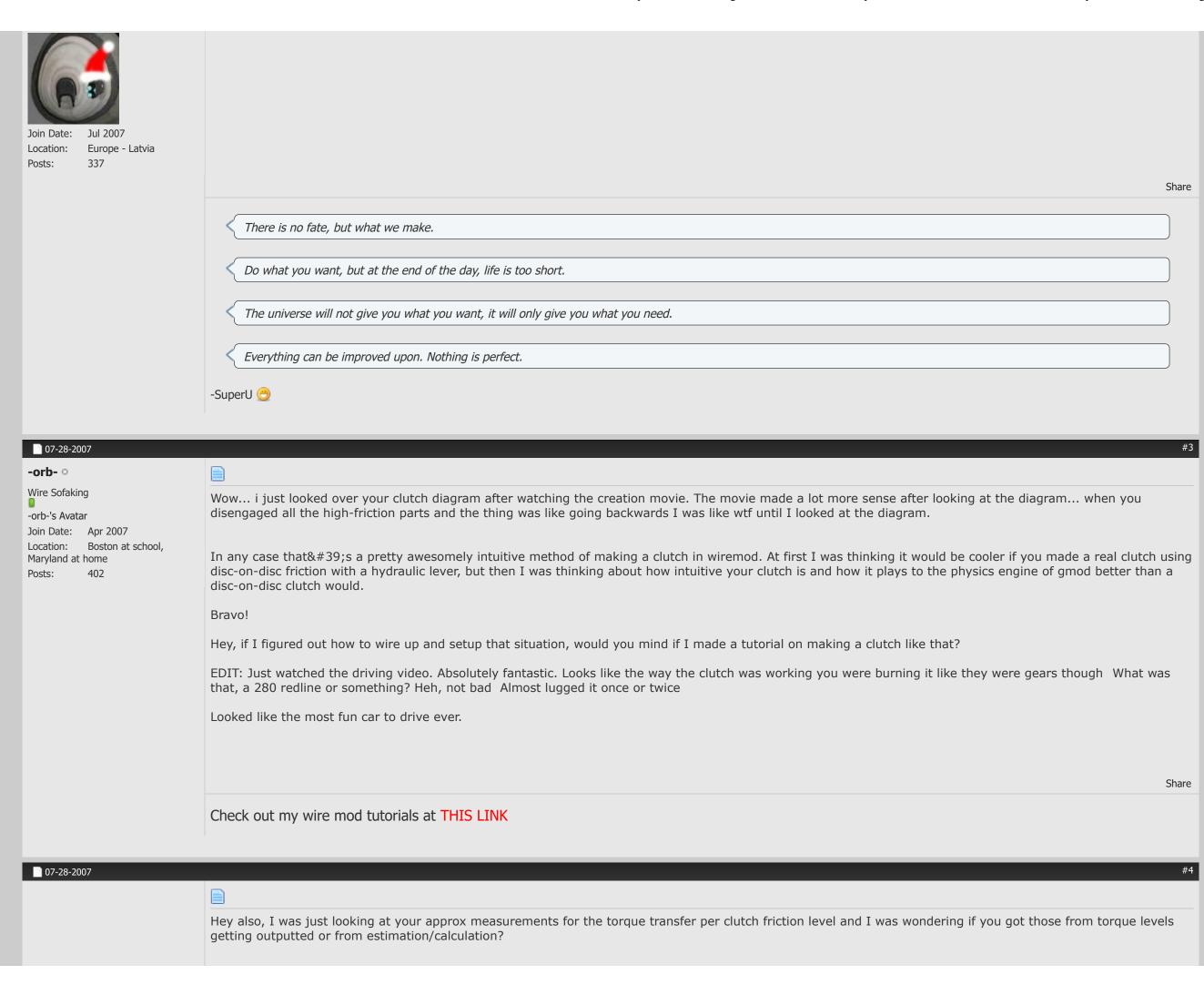


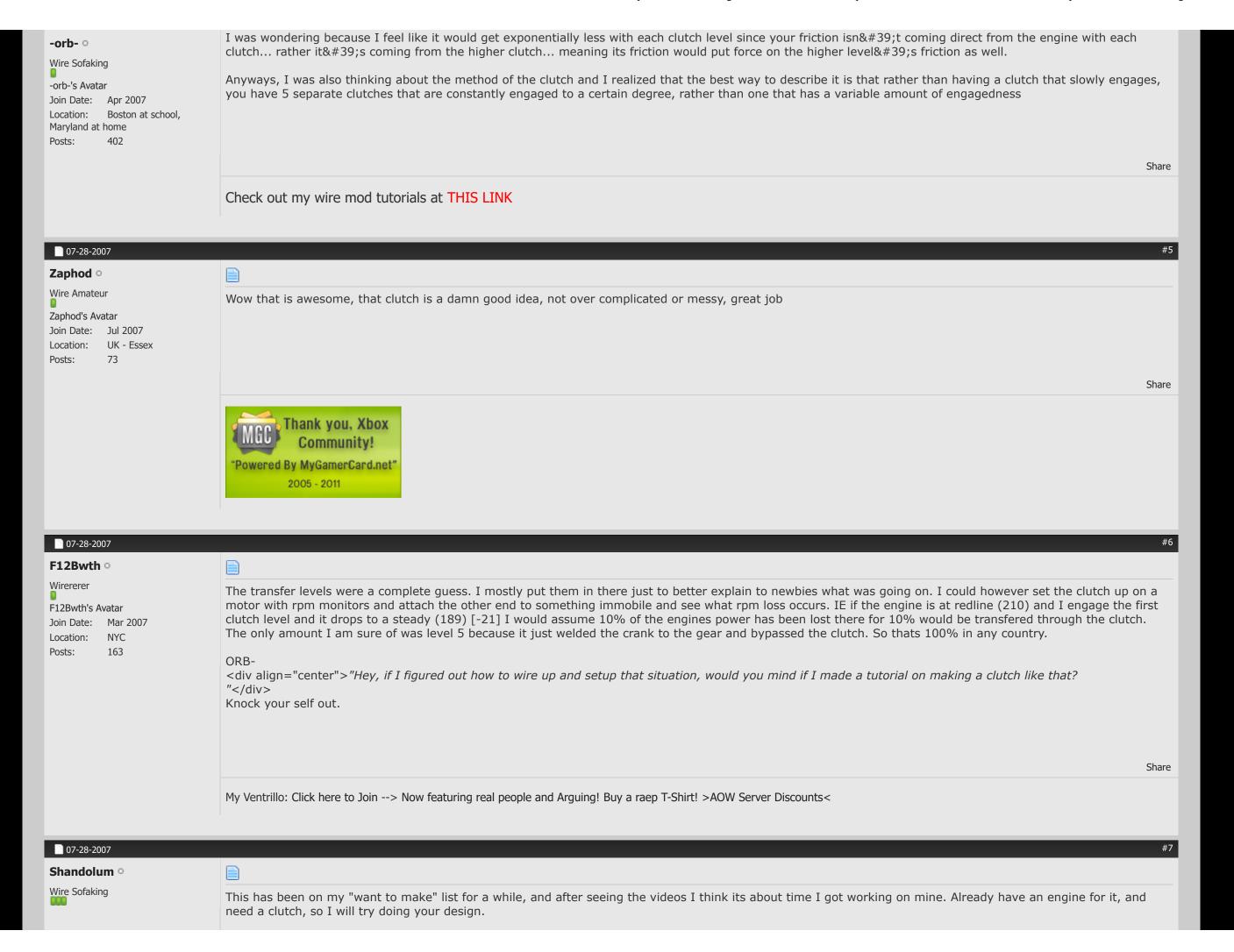


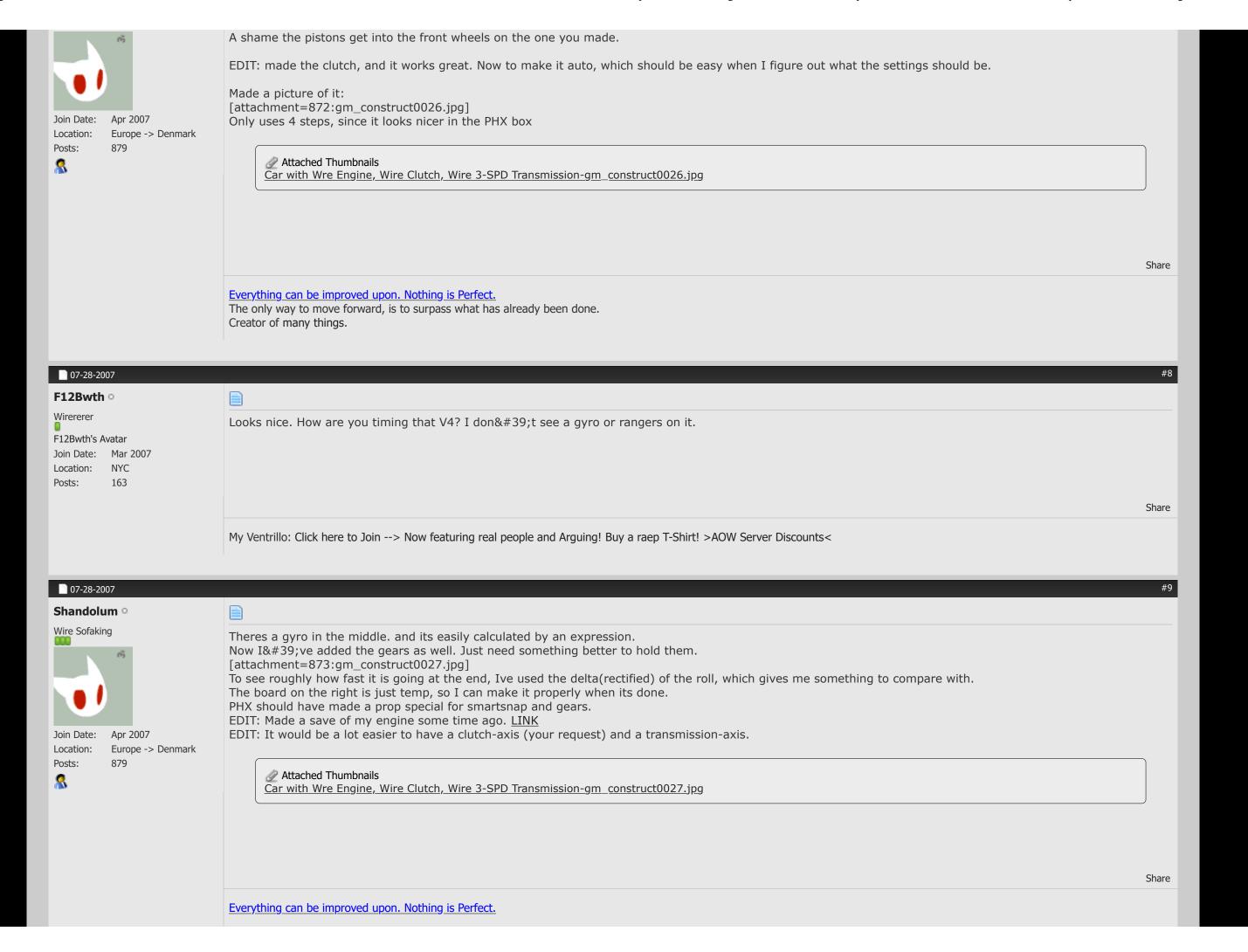
Ok so! We have tons of picture some cool videos. But wheres a save?

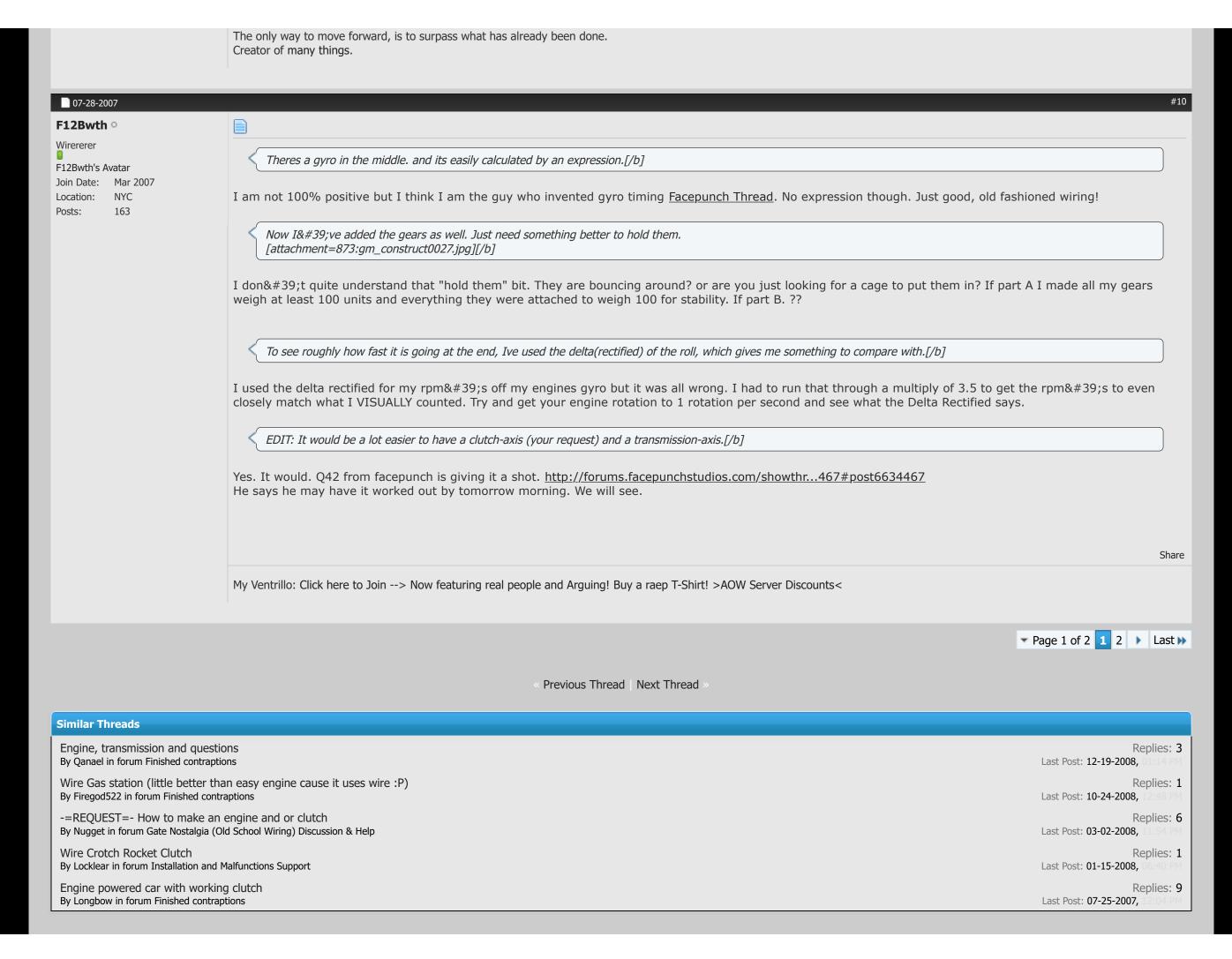
PS: Coolest car i have ever seen!

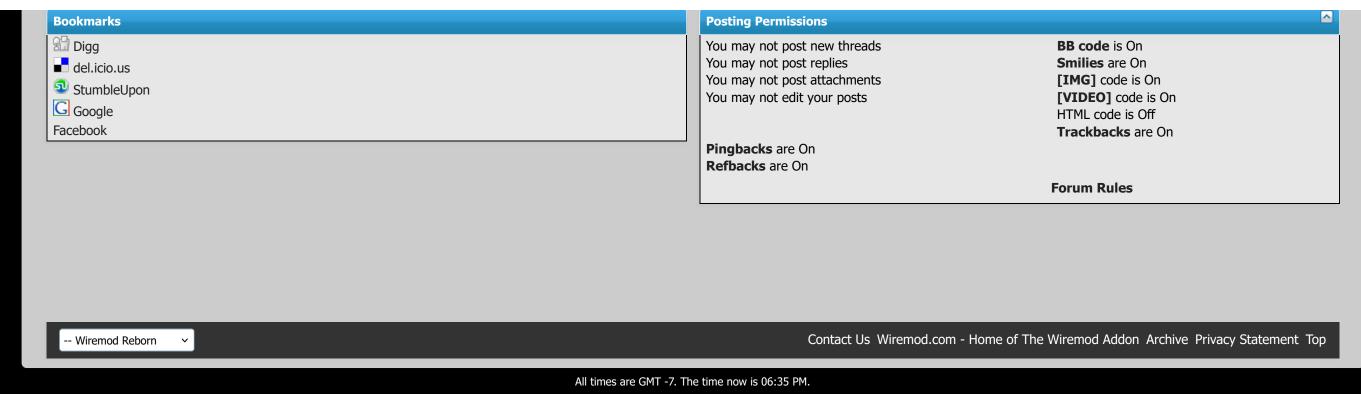
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