

TWS 4CU+ Quick Start guide

Before you start, download, and install the following program on the laptop you will be using to tune your vehicle. The free software will suffice.

- https://www.tunerstudio.com/index.php/downloads
 - Download TunerStudio
 - Download Megalog viewer

Step 1 – Install the wideband o2 sensor. This can be put in the OEM bung. Run the plug from the o2 sensor into the car via the engine firewall gromet.

Step 2 – Unplug the factory ECU and move it with the 10mm nuts. You only need to loosen the ones where the Ecu has a slot on the mounting tab. This will make it easier to reinstall.

Step 3 – Plug in the 4CU+ ECU to the main harness and connect your laptop via the cord provided and the USB-B side into the ECU. Taking the cover off of the Ecu will reveal the USB-B port. The ECU should start flashing some lights once connected to the laptop.



Step 4 – Open up TunerStudio and create a new project



Step 5 – Name your project and then tick Other/Browse and search for the firmware

🗟 Create New I	Project			×		
New TunerStud	lio Project	-				
Project Cor	figuration					
Project Na	me					
MyCar	-					
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			Detect			
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Then click on fome_proteusf4.ini and hit open

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E. Osersityien Documents (TunerStudioProjectsimyCar)	browse
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Keep the default at AFR and hit next

🔍 🍓 Create New Project		×
New TunerStudio Proj	ect	
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Next establish the com port. Try each port by hitting test port, until you get a successful connection.

Communicatio	on Settings
Connection	Type R\$232 Serial Interface
Connection S	Settings
Com Port:	COM1 👻 🔮
Baud Rate:	115200 👻 🥝
	Bluetooth Port
Not tested	Test Port

I44 W Britannia St, Building 25, Taunton MA 02780 I - 5 0 8 - 8 8 0 - 5 4 4 8 - <u>contact@thewedgeshop.com https://www.thewedgeshop.com</u>



Step 6 – Calibrate the TPS. Go to Tools > Calibrate TPS



With your foot off the throttle, hit Get Current on the Closed throttle ADC count (1.) With the throttle fully depressed, hit Get Current on the Full throttle ADC count (2.) Then hit Accept

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-	Calibrate Throttle	- + · ·	
_	Closed throttle ADC count 10	1. Get Current	
	Full throttle ADC count 630	2. Get Current	
1			
14 1!	>	Accept Cancel	
Battery	17	- 3	Dv ell
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Step 7 – Loading a new tune

Your ECU should come pre loaded with a tune file for your car, but if you need to load a new tune, please follow the instructions below.

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Vehicle Projects	•				
Recent Vehicle Projects	► [
Tune Restore Points	Ctrl-R				
Load Tune (msq) 🛹 🗕	Ctrl-O				
Save Tune	Ctrl-S				
Save Tune As					
Compare Tune	Ctrl-M				
Gauge Cluster	F.				
Work Offline	Ctrl-W				
Exit					
Open Saved Tune X					
🔁 🖬 35 RV8 USA	MAF tune TWS.msq	Controller			
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