

Port Fuel Injection

Microsquirt

TPS Calibration

PFI - Microsquirt – TPS Calibration



Tools required

- Kavinci Motors Programming lead (see with your local dealer)
- Computer
- TunerStudio Software (https://www.tunerstudio.com/index.php/downloads)





1. Connect Microsquirt to TunerStudio

- a. Connect the Microsquirt ECU with the Kavinci Motors Programming lead to the computer.
- b. Open Tuner studio software
 - i. If a TunerStudio project has been previously created, open the project
 - ii. If a Tuner Studio project never been created, open the ".msq" file
 - 1. Connect communication of TunerStudio to Microsquirt by pressing on the Communications on the Top Menu (section 1 of TunerStudio)



2. The communications Settings window opens, Set the Correct Port in Connection Settings.

Once the port selected, Press "Detect" then "Test Port"

Communication	tion Settings
Communication Settings	
Driver:	RS232 Serial (Default) 🔻
Connection Type	erial Dort
Connection Settings	
Port:	COM1
Baud Rate:	115200
Not tested	Test Port Detect
	Accept Cancel

3. To finish with the communications Settings, click on "Accept" button to close the window.

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2. Calibration of the TPS

- a. In the "Tools" Menu (section 1 of TunerStudio)
- b. Press the "Calibrate TPS" Section
- c. "Calibrate Throttle Position Sensor" window will open

Calibrate Throttle Position Sensor	×
Calibrate Throttle	
Closed throttle ADC count 0 Get Current	
Full throttle ADC count 1023 Get Current	
Accept Canc	el

- i. Fully close the Throttle (unscrew the screw holder on the opposite side of the throttle body sensor to make sure the Throttle is fully closed)
 - 1. Press the Button "Get Current" on the first line "Closed throttle ADC count"
- ii. Fully open the Throttle (turn by hand the Throttle wheel, to make sure the Throttle is fully open)
 - 1. Press the Button "Get Current" on the second line "Full throttle ADC count"
- iii. Once the values Get, Close the windows by clicking on "Accept"

3. Check the TPS Value

- a. To check the TPS value, on the main screen with the gauge (section 3 of TunerStudio)
 - i. Fully Open the throttle, the Value should be 100% (+/- 0.2%)
 - ii. Release the throttle, the value should be 0% (+/- 0.2%)
- b. If the values are not correct go back to "2. Calibration of the TPS"