TACO MOTO SX1 ECU QUICK START GUIDE FOR KTM / GASGAS / HUSQVARNA 250-501 DIRTBIKES

Sure there's other other ECU's out there, but none of them are the Taco Moto GET ecu.

QUICK START INSTALLATION VIDEO (SCAN CODE WITH PHONE CAMERA or SEARCH 'INSTALLING THE SX1' ON THE TACO MOTO CO YOUTUBE CHANNEL)

INSTALLING THE ECU (covered in the video)

- Remove seat
- Remove tank
- Press the connector release clip and remove the stock ecu from the rubber boot
- Click new ecu into the connector and secure it into the rubber mounting boot
- It's not necessary to cut a hole in the boot for the barometric pressure sensor but if you do don't blast it with high pressure water

INSTALLING OPTIONAL ACCESSORIES (covered in the video)

- Mount the map switch on the bars or other suitable location
- Mount the traction control knob on the bars or other suitable location
- Mount the wifi com module to the bike using zip ties or the Taco Moto Mounting Bracket
- Using the provided Y-cables plug the accessories into the ecu
- Confirm all cords are free of hot engine parts and pinch points

GO RIDE

The Taco Moto GET ecu system is designed to be 'plug and ride' easy, but we recommend performing the following basic set up procedures bellow to fully maximize the performance of the system.

SET TPS END POINTS AND IDLE SPEED (covered in the video)

- These steps can be performed with or without the Wifi module and follow the instructions in the video link for more information
- Idle speed for the 450/500/501 EXC-F, XCF-W, FE, FEs, ES: **1800-1900 rpm**
- Idle speed for the 250/350 EXC-F, XCF-W, FE, FEs, ES: **1950-2050 rpm**
- Idle speed for the 250/350/450 SX-F, XC-F, SMR, FC, FX, FS, MC-F, EX : **2250-2350 rpm**

***Set idle speed with engine up to temperature**

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Last Updated 5/20/2024

TOGGLE MAP SWITCH (covered in the video)
The maps can be changed on the fly at any engine speed at any time
Map 1 is race mode, Map 2 is single track mode.
If the map switch is unplugged the ECU will default to map 1

LED MAP SWITCH (SCAN QR CODE BELOW)
The maps can be changed on the fly at any engine speed at any time
Map 1 is race mode, Map 2 is single track mode.
If the map switch is unplugged the ECU will default to map 1

10 LEVEL TRACTION CONTROL KNOB (covered in the video)
The optional knob controls the TC level being applied to whichever map is currently selected and can be adjusted on the fly at any time. 0 is off. 1 is the lowest level, 10 is the most

WIFI COM MODULE (covered in the video)
The optional wifi com module allows the WIGET app to be used with the SX1 ecu to access it's features and functions but is not required for the operation of the SX1 ecu and can be added at any time

Y-CABLE SPLITTER (covered in the video)
The Y-cable splitter allows the rider to connect more than one optional accessory to the ecu at a time and is included with the wifi com module.

T-CAN CONNECTOR
This small dongle can be plugged into any unused plugs on the Y-connector and is a noise suppression filter used to improve the data reliability of longer cord runs.

SECOND INJECTOR CONNECTOR (covered in the video)
A second injector is not used on this bike so this lead can be safely tucked out of the way.

RESET TPS CABLE
This is used to power the ecu for programming while the engine is off then removed once the ecu set up is completed

FUEL
Both maps are designed to run on **91-93 octane pump fuel** and carefully applied adjustments can be made in the app to run higher or lower octane fuels as needed. Please contact Taco

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Moto is you have any questions about this and only change these settings if you understand what the results will be as serious engine damage may result.

EXHAUST SYSTEM COMPATIBILITY

The Taco Moto portfolio of maps are created for maximum performance with the specific exhaust system the unit was ordered for. Additional maps can be loaded into the unit if the exhaust system is changed, please contact info@tacomoto.co for more information.

FAN ON / OFF TEMP SET POINTS

The WIGET app allows the rider to adjust the on / off fan temps and perform a low temp fan function test. Before making any changes to these set points, record the original settings in a maintenance log or with a screen grab and only change these settings if you understand what the results will be as serious engine damage may result.

KNOWN ISSUES ON THE KTM 500 / Husky 501 BIKES:

- DECEL POPPING
  - The 12-19 500 / 501's were equipped with an exhaust air injector device built into the right side of the head just behind the exhaust outlet called the SAS air injector. Installing an aftermarket exhaust system and or a race ecu may result in a 'popping or snapping' sound from the muffler. In closed course race use applications this air injector may be plugged or removed and we offer a race delete kit for this purpose.
- Hard starting, cough and stalling
  - The idle speed setting is essential on these bikes and the number one cause of them is idle set too low
  - **SEE SX1 TIPS AND TRICKS BELLOW**
  - The installation is not considered fully complete until the idle speed has been set to 1800-1900 and confirmed with an instrument and the TPS end points have been accurately calibrated using either of the wifi or non wifi methods shown.
  - Screen grab the original fan temp settings before making any changes
  - Place a label on the rear under fender of the wifi com password if hidden. We suggest taking a picture of your wifi comm label, if you scratch this password off its lost forever!
  - Place phone in airplane mode with wifi enabled when connecting to app
  - Do not pressure wash the barometric pressure sensor on the top of the ECU
  - The O2 sensor on the stock header is not used by the SX1 and can be removed or left on
  - It's a good practice to annual check the TPS and idle speed settings as part of regular routine bike maintenance
  - The SX1 is the new for 2024 evolution of the RX1 released in 2018 and builds on it's legacy of performance and features with new internal hardware and app upgrades.

LIMITED LIFETIME WARRANTY

Taco Moto Co will warranty the SX1 ecu for the life of the product to the original purchaser

ATHENA WIGET APP QR CODE

APPLE APP

ANDROID APP

Visit www.tacomoto.co for more parts and accessories for your bike

Visit www.athena.eu/en-us for more exciting products from Athena Racing and GET

*Note - This engine control unit is a *closed course competition use only* component and use of this device may result in increased engine power, RPM redline settings, and vehicle performance which may make an inherently dangerous vehicle even more so. Because of its advanced tuning and control capabilities it allows the rider to make changes and modifications which may decrease fuel mileage and is capable of other modifications which could cause engine damage. Installation of this device may render a vehicle in non-compliance with emissions laws, annual state inspections, factory or extended warranties and the use of this system is your consent that you understand and accept all of these advisements.

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