### 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.

#### INSTALLING THE ECU (also covered in the video)

\*Remove seat

\*Remove tank

\*Press the connector release clip and unplug the stock ecu

\*Remove it from the boot and slide it over the new SX1 ecu

\*Click new ecu into connector and re secure ecu rubber boot to the mounting tabs

\*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 \*Plug the map switch into the ecu

\*Plug the traction control knob and wifi com module into the Y-cable and connect to the ecu

\*Confirm all cords are free of hot engine parts and pinch points

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

\*The video link above provides the instructions for this step either with or without wifi

\*The installation is not considered complete until the idle speed has been set to factory spec and confirmed with an instrument, and the TPS end points have been accurately calibrated using either method shown.

\* 450/500/501 EXC-F, XCF-W, FE, FEs: 1800-1900 rpm

\* 250/350 EXC-F, XCF-W, FE, FEs: 1950-2050 rpm

\* 250/350/450 SXF, XCF and SM bikes: 2250-2350 rpm

\*Set idle speed with engine up to temperature

**MAP SWITCH (covered in the video) :** The maps can be changed on the fly at any engine speed at any time and the switch is included in the kit. 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.

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**Emissions Disclaimer:** The purchase and use of this product acknowledges that you understand this modification is for closed course competition / race use only.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

# Prepared by your friends at TACOMOTO.co

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QUICK START

**INSTALLATION VIDEO** 

OR SEARCH 'INSTALLING THE SX1' ON THE TACO MOTO CO YOUTUBE At CHANNEL



#### QUICK START GUIDE FOR KTM / GASGAS / HUSQVARNA 250-501 DIRTBIKES (continued)

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

## SX1 TIPS AND TRICKS

- The installation is not considered 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.

**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 Moto is you have any questions about this.

**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 temps if you understand what the results will be as serious engine damage may result.

**CAN BUS DONGLE :** The Y-cable will be equipped with a CAN BUS dongle and this should be plugged into at least one of the unused leads. If you have each of the leads plugged into accessory devices and there are no spare and open leads, then no dongle is needed.

# 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

**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 IOS ANDROID

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.

For Support Contact Taco Moto Co. : <u>info@tacomoto.co</u> : 725-273-8772 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