

IGNITION QUICKSHIFTER

DIRTBIKE/ATV UNIT

Installation Instructions

PARTS LIST

- 1 Quickshifter 2 Stand Alone
- 1 Installation Guide
- 2 Dynojet Decal
- 2 Cable Tie
- 2 Velcro
- 1 Alcohol Swab

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

Fitting the Quickshifter Sensor

- 1 Attach the sensor to the gear lever mechanism as shown in Figure 1-2. Verify the rod end is attached to the gear lever at a point which travels through a distance of between 8.0 - 10.0mm from rest to fully engaging 1st gear. Use the accessories supplied in the fitting kit as necessary.
Note: Verify that 1st gear actually engages by rotating the rear wheel when checking for total gear lever travel.
- 2 Route the sensor cable to the quickshifter harness and plug the corresponding sensor connectors together.
- 3 Attach the opposite end of the sensor to either the chassis or engine casing using the fitting components supplied.

The ladder frame mounting brackets can be shortened or bent to suit. Be aware that there must be approximately 15.0mm of shaft showing prior to fixing the body end of the sensor which can be adjusted by turning the sensor shaft in or out of the sensor rod end.

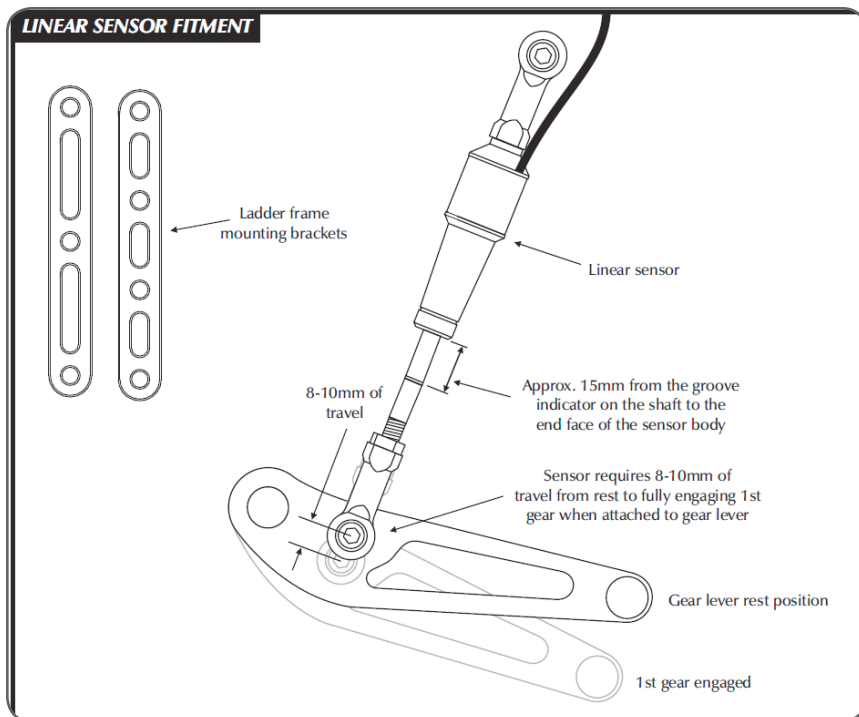


Figure 1: Linear Sensor Fitment

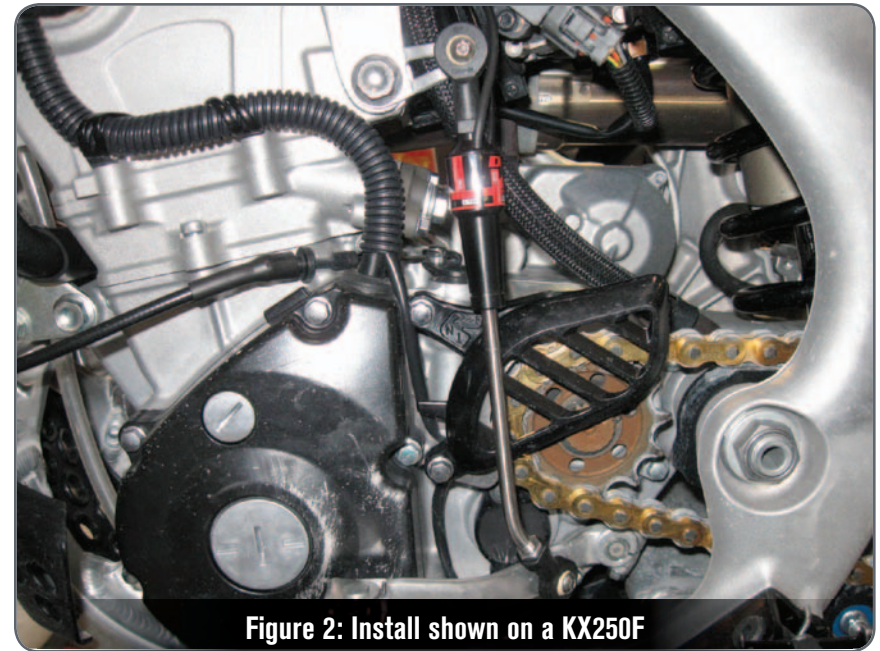


Figure 2: Install shown on a KX250F

Fitting the Control Unit

The Ignition Quickshifter control unit should be positioned so it does not exceed an operating temperature of 160°F and must be installed where it is protected from excessive vibration and harsh environmental elements.

Locate a suitable flat surface for the control unit to adhere to.

Note: Do not actually fix the control unit into position until you have installed the rest of the components and have routed the relevant cables.

Once you have completed the rest of the installation you can then finally fix the control unit into position using the supplied Velcro mounting pads.

Make sure you de-grease and warm up the mounting surfaces prior to peeling the backing off of the Velcro pads and securing into position. Cold surfaces result in poor adhesion.

Connecting the Quickshifter Harness

This unit is intended to be connected to a model that utilizes a Denso stick coil.

If your vehicle does not feature this style ignition stick coil, then remove/cut the connectors from the end of the quickshifter harness and interrupt/connect directly to the signal side of each ignition coil as illustrated in Figure 4.

Route the harness through the vehicle so the connectors from the Ignition Quickshifter end up in close proximity to the ignition coils.

- 1 Plug the Ignition Quickshifter in-line of the stock coil stick and the stock wiring harness.
- 2 Connect the black eyelet ring terminal wire to a suitable ground location.
- 3 Connect the red wire to a switched 12v source. For vehicles that have a battery go to the positive side of the battery. For vehicles that do NOT have a battery you can find a 12-15v source coming out of the regulator/rectifier.
- 4 On some models you can connect the long black clutch lock-out wire to the vehicle clutch switch signal wire situated at the left hand handlebar housing assembly. Only one of the two wires exiting the clutch switch will provide a ground signal when the clutch lever is pulled in. Connecting to this wire will disable the Ignition Quickshifter from operating whenever the clutch lever is pulled in. (May not function on every application).

Quickshifter System Operation

To use the Ignition Quickshifter, make a full and positive gearshift with your foot in an upshift direction without using the clutch or rolling the throttle.

Note: The gear lever must return fully to the rest position before the system resets itself for the next gear selection.

The status LED will be off when the engine is not running. The status LED will illuminate solid green whenever the sensor is in the trigger position whether the engine is running or not.

There will be no interrupt/quickshift below 2500 RPM.

This unit will give a kill time of 65ms as delivered. If an alternate kill time is required you can use the optional quicksete adjuster part #61100014. This adjuster will plug into the harness where there is a black capped connector. When this adjuster is connected it will allow kill time adjustment on the fly of 45-90ms.

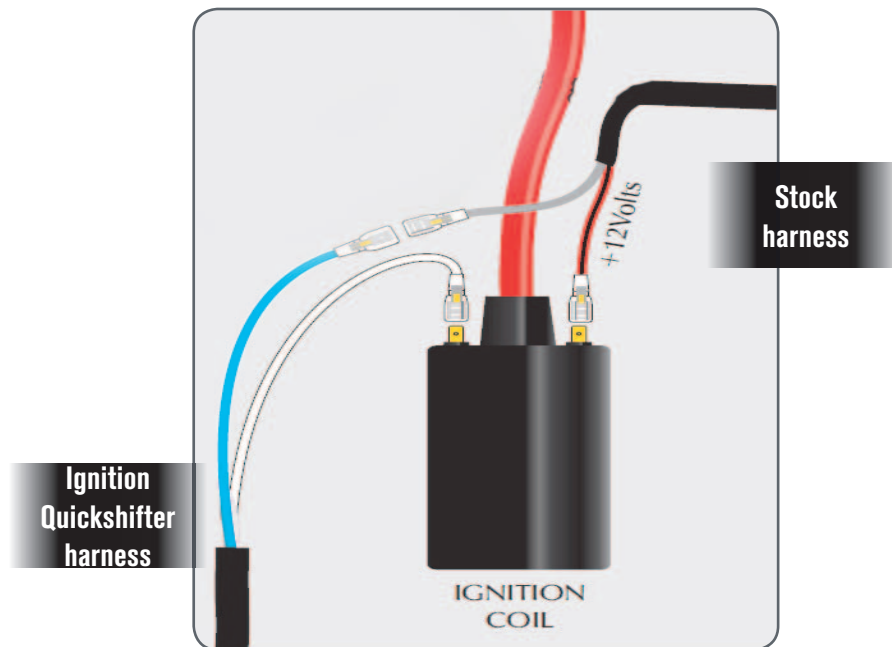


Figure 4: OEM Ignition Coil Connector Harness

Troubleshooting

No power up	Check for incorrect connections, blown fuses, poor negative battery terminal connections, and severed or trapped wires.
No quickshifter interrupt	Check for correct connection of the Quickshifter harness connector #1 and it's associated grey link wire alignment. . Verify the sensor output signal. Check for loss of tach/RPM signal. Check for severed or trapped wires.
No quickshifter operation	Verify the quickshifter parameters and programming have been carried out. Check for loss of tach/RPM signal. Check for severed or trapped wires.
Engine misfire	Verify the control unit mounting position and check for isolation from vibration. Check plug and play connections. Verify ignition coil type and suitability and if the ignition coil adapter connectors require fitting.