US SHIFT com Throttle Position Sensor Adapter Installation Guide

Contents

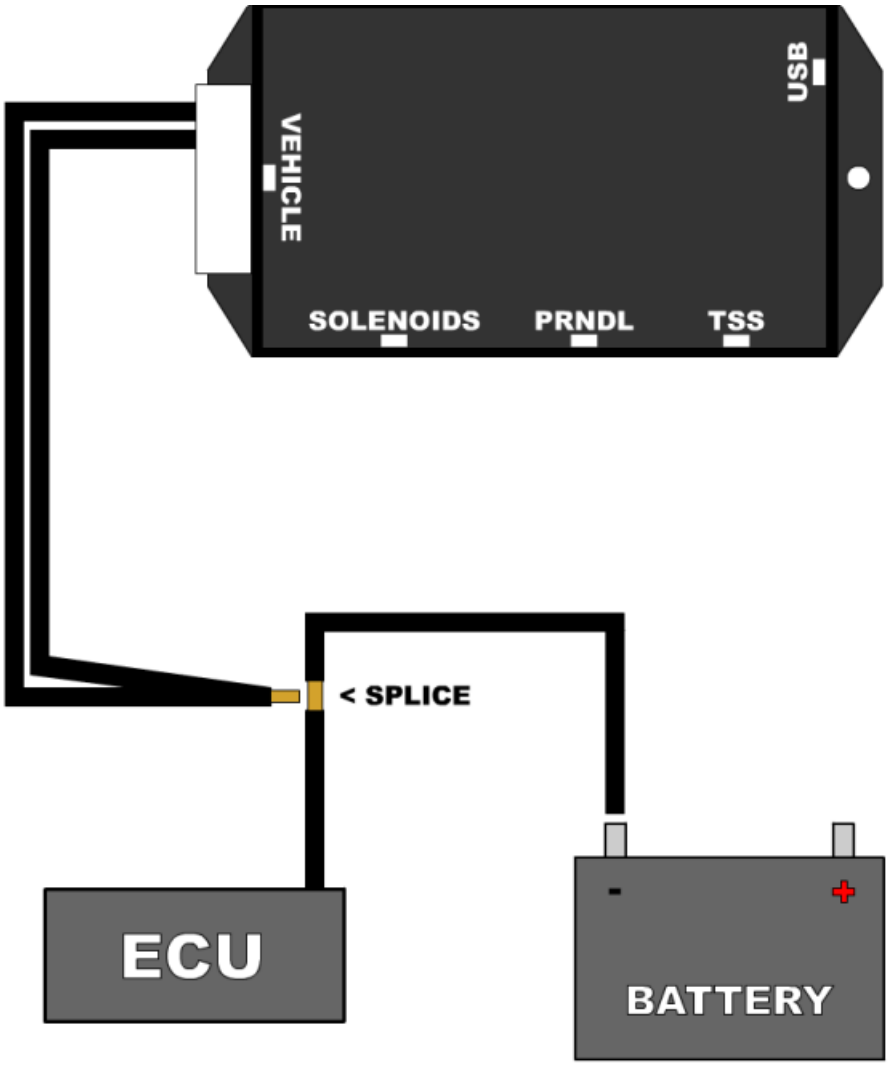
US SHIFT com Throttle Position Sensor Adapter

TPS Adapter

- TPS Adapter 1 is used with Edelbrock Pro-Flow 4, FiTech Throttle Body EFI, and most Holley Sniper EFI systems.
- TPS Adapter 2 is used with Holley Sniper EFI Stealth 4500 and Sniper EFI Quadrajet.
- These adapters are used to interface with US Shift Quick 1, 2, 4 and 6 Transmission Controllers and read the throttle position signal from the aftermarket EFI system.

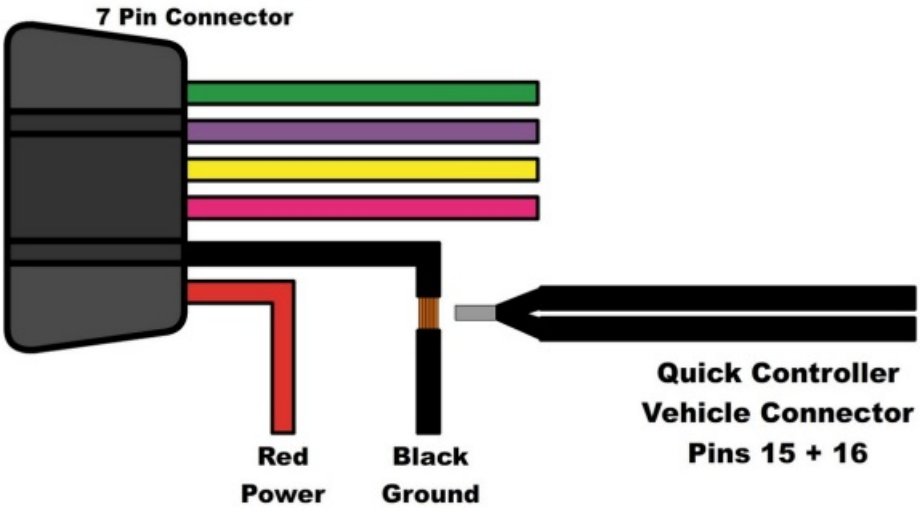
Thank you for purchasing our TPS Adapter for use with the above-mentioned EFI systems. The purpose of this product is to allow trouble-free sharing of the throttle position sensors on these systems with our Quick series of stand-alone transmission controllers. This adapter contains an integrated filter circuit that will prevent noise from being introduced into the TPS input of the EFI system or our transmission controller. Since this adapter is dependent upon the high-impedance throttle position sensor input in our Quick series of transmission controllers, it will only work with these products. Proper installation of this adapter prevents problems such as the Sniper throttle body EFI system being unable to enter closed-loop mode, due to an unstable TPS signal. Please follow these easy installation steps carefully in order to ensure trouble-free operation.

Step 1: Proper ground connection of the Quick transmission controller
We often say that the ground is the most important connection you will make when installing our transmission controllers and this statement is especially true when using one of these EFI systems. Since the two systems are sharing a critical signal input, they must be at the same ground potential. Both of the black ground wires from the Quick controller must be connected to the main ground of the EFI system, as close to the EFI ECU as possible.



Holley Sniper

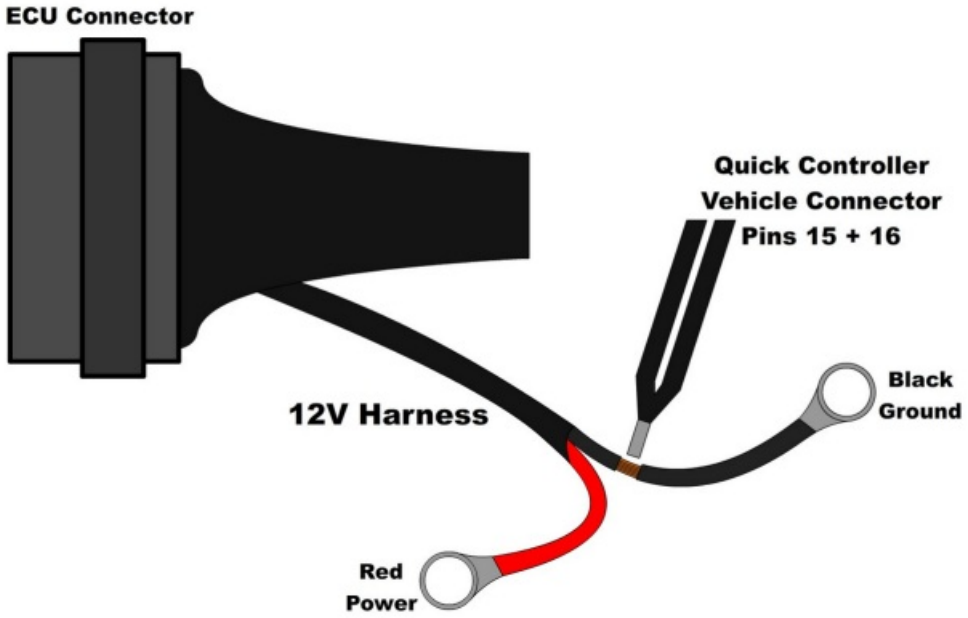
Connect both black ground wires from the Quick controller to the black “Battery Negative” (pin G) wire of the Sniper’s wiring harness, as close to the 7-pin “Main Harness” connector as possible. If this point is more than a few feet from the battery negative terminal, then 10AWG wire should be used to connect this point to the battery negative terminal.



FiTech Throttle Body Systems

Both black ground wires from the Quick controller should connect to a large ring terminal placed under one of the nuts or bolts attaching the throttle body to the intake manifold. This is necessary because the FiTech ECU is grounded directly to the throttle body casting. As always, it is highly recommended that all connections be soldered and covered with sealed (double-wall) heat shrink tubing.

Edelbrock Pro-Flow 4
Connect both black ground wires from the Quick controller to the black “Battery Ground” wire of the Edelbrock main wiring harness, as close to the ECU main connector as possible. If this point is more than a few feet from the battery negative terminal, then 10AWG wire should be used to connect this point to the battery negative terminal.



Step 2: Install the adapter between the throttle position sensor and the ECU wiring harness.
Disconnect the small round connector from the throttle position sensor of the EFI system. On some Holley systems, there may be a white or gray plastic insert in the connector. You will need to remove the insert using needle nose pliers in order for the US Shift connector to fit. Connect the two connectors of the TPS adapter to the throttle position sensor and to the harness connector that originally plugged into the TPS. Dress the adapter wiring as necessary to prevent mechanical interference with throttle linkage or damage due to heat.

Step 3: Connect to the transmission controller’s TPS input. Connect the dark green wire (labeled “TPS Signal”) coming from the TPS adapter to the dark green wire (also labeled “TPS Signal”) of the transmission controller’s vehicle harness.

Step 4: Proceed with transmission controller and / or EFI system installation. Perform the TPS calibration procedure for the Quick transmission controller as described in its installation manual.

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CONTACT
If you have any questions, problems, or product orders, don't hesitate to call our customer service line.
(864) 646-8920

(Monday-Friday 10AM-6PM EST).
If no one is available, please leave a detailed message and we will reply promptly. Whenever possible, we will try to return urgent technical support calls left after hours or over the weekend.
You can also email customer service at
support@usshift.com

Scan this code to copy the customer service phone number and email address to your phone.

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Documents / Resources

	US SHIFT com Throttle Position Sensor Adapter [pdf] Installation Guide Throttle Position Sensor Adapter, Throttle, Position Sensor Adapter, Sensor Adapter, Adapter

References

- US Shift Stand-Alone Transmission Controllers