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All-in-one wiring harness solution

Enclosed is an all-in-one solution for your Tremec TKX transmission.

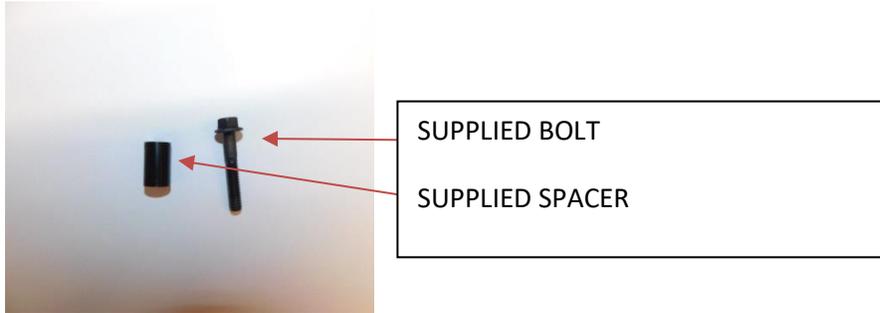
The all in one utilizes a module that will provide 2 VSS output signal wires and wiring for your reverse lights.

The electronic speedometer output connection on the harness is equipped with 2 speed sensor outputs (PURPLE/WHITE & PURPLE/YELLOW); the speed sensor outputs generate a square wave signal that goes from about -5 to roughly +5 volts, varying in frequency as the speed changes. If your ECM needs a positive only input, the output will automatically shift and give you 0 to +10 volts. The 2 speed sensor outputs are completely independent and can be calibrated separately with any pulse count and ratio you want. These two outputs should be able to drive any common speedometer, cruise control, or ECM.

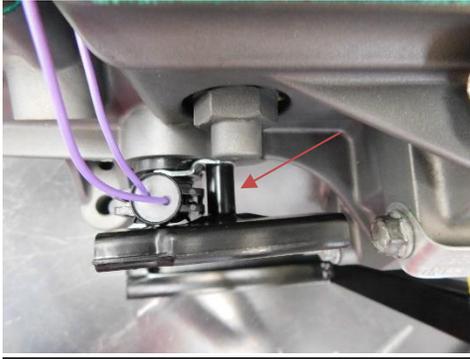
If only one output is needed, ground or cap the second output that is not used.

The reverse lights are powered by a pair of wires (RED/BROWN) connected to a switched +12 volt source and the positive side of your reverse lights; grounding of those lights should be local to the bulb socket.

Wiring Diagram and Plug Connections



Module Spacer: Included in your TKX All-In-One is a supplied longer bolt and spacer to give the correct clearance for the module and the speed sensor. ***NOTE:** Connect your speed sensor before installing the module onto the transmission to give adequate room to connect it properly.



TOP VIEW



FRONT VIEW

Red wire: Fused ignition switched +12 volt connection to provide power for the module.

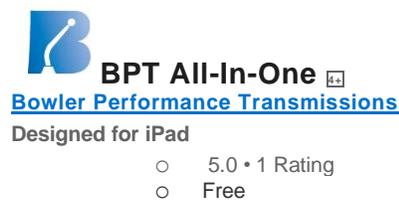
Black wire: Ground connection module. ***NOTE:** It is extremely important to connect this to the battery negative terminal or engine block ground to avoid any electronic interference which could disrupt the speed sensor signals and give false readings.

Purple/White(output 1) & Purple/Yellow(output 2): These are both speed sensor outputs, and only needed when using an electronic speedometer or other module that requires a speed signal input to operate. You can utilize just one or both depending on your needs. They both are programmable based on the needs of the equipment they are sending signal to. If only one is used, cap off the other and secure it. Output one is preset at 40 pulses per revolution and option 2 is preset at 16 pulses per revolution.

Red/Brown(2): Reverse light power input/output. If using reverse light feature, these 2 wires work in conjunction with each other. They both are tied together so there is no way to connect them wrong if you hook them up to the correct sources. One wire will need to connect to a switched +12 volt source and the other will need to be connected to the positive (+) side of your reverse light bulb socket.(Does not matter which one connects to which) Power will be sent to this connection only when transmission is in reverse gear. The grounding of your reverse lights will be done direct to the bulb socket through a chassis ground.

Mobile Blue Tooth App set up

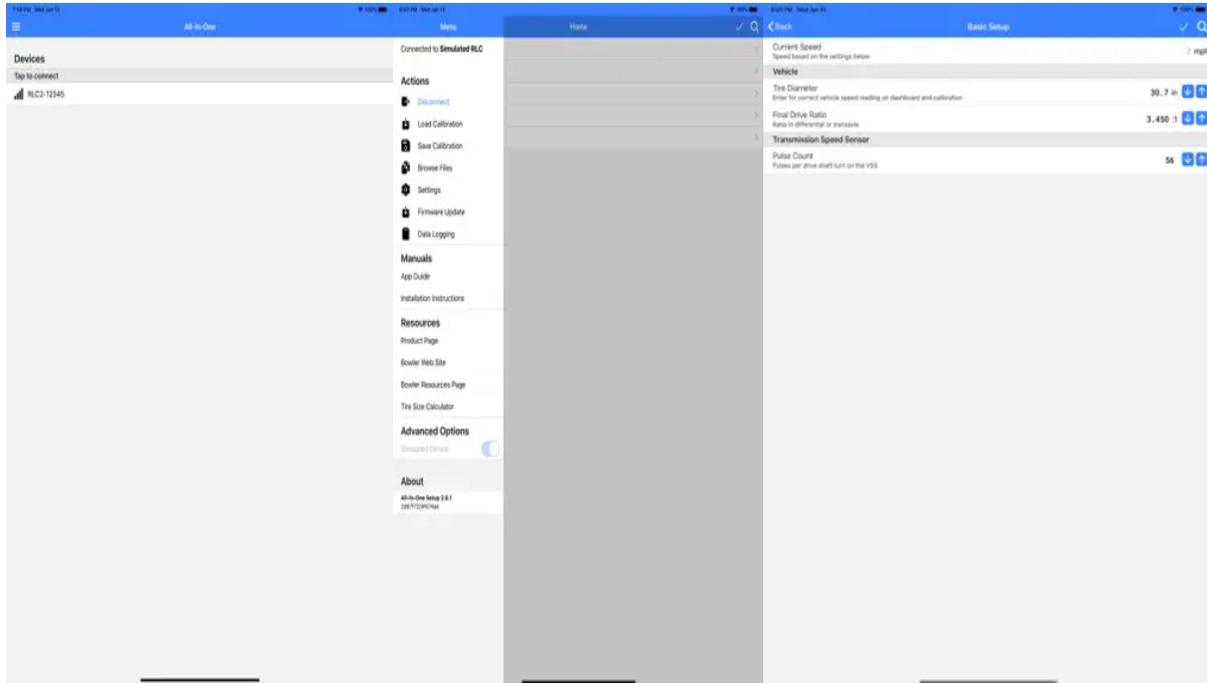
Search on either the Apple or Android app store for: “BPT All-In-One”



The harness is equipped with a blue tooth chip that will connect to your smart phone along with an app we have developed for Apple or Android users.

In the setup app, you can enter the expected number of pulses per driveshaft revolution for the speedometer or ECU being driven by the output.

When you launch the app it will automatically search and try and connect to your device. Once connected it will try and have you set up your “Reverse Lock Out” **IGNORE** this page as your TKX harness is **NOT** equipped with the Reverse Lock-Out pigtail.



After you skip past the “Reverse Lock Out” page go into “Vehicle Settings”

Here is where you’ll input your vehicle’s **Tire Diameter & Final Drive Ratio**

Next you will select an option below to set the default speed pulse count.

- GM Supermagnum
- T56 Magnum / Magnum XL
- Borg-Warner / Magnum F

Alternatively, if needed you may enter a custom pulse count number if your situation requires it.