Power take-off or PTO

How does Azuga utilize PTO?

The Azuga plug 'n' play device is capable of receiving and reporting sensor actuations that work as a switch, i.e., either ON and OFF, YES and NO, 1 and 0. This is very useful in cases where one would want to track and measure instances of panic events, door open and close, switch on and off, sirens engaged and disengaged, and similar operations that are usually performed by a driver as part of his operational duties.

Azuga provides the device along with a special cable to support this functionality. The device is a standard OBD-II or JBus device that plugs into the vehicle's diagnostic port; the cable serves the purpose of receiving the digital input (ON/OFF) and transmits this to the device which will thereafter report it to the Azuga cloud.

IMPORTANT: The voltage on the digital input must be 0 V or 12 V for either of the actuation levels.

If OFF is indicated by 0 V, then ON must be indicated by 12 V (OR) If ON is indicated by 0 V, then OFF must be indicated by 12 V.

Prerequisites for the PTO feature to work

To get started with using the PTO, your organization needs to meet the following listed prerequisites:

- Please check if the correct devices are installed to report PTO events (OBD-II: DCM970-21ZB70 / 2-wire Hardwired: DCM970-21ZB71 or 6pin/9pin JBus: DCM970-21ZB72 Note: 16pin JBus is supported)
- Firmware: 34D0015330 and above. Configuration : Should end with _4 Enable PTO package for the device.

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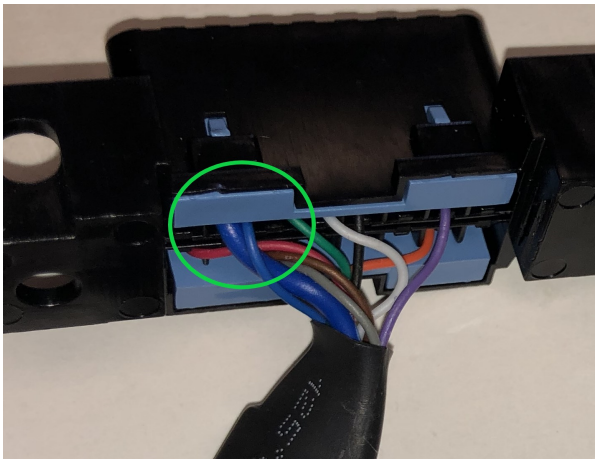
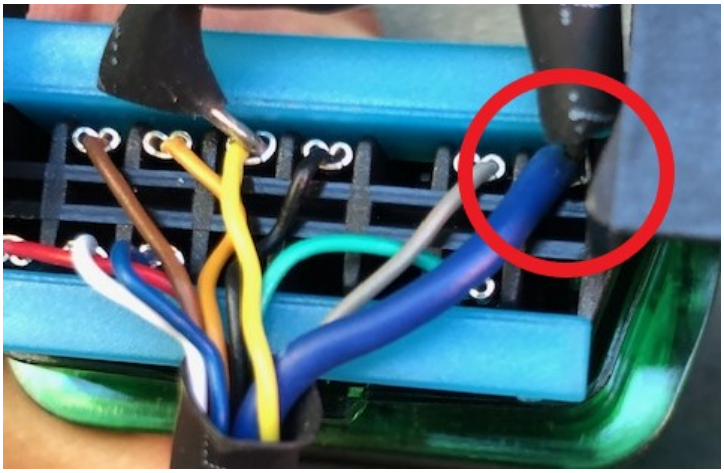
PTO Wiring Instructions

Note: Prior to installation of OBD2 PTO sensor cable, please ensure the proper cable is being installed. The devices being installed in the vehicles are designed to work with a PTO sensor wire (Large blue wire) on the 7th pin. The PTO monitoring will not function properly if the blue sensor wire goes into the back of the female end of the PTO cable in the 1st pin position. See below photos

Correct configuration: Large Blue wire goes into the 7th pin position



Incorrect Configuration: Note, the Larger, blue wire goes into the first pin slot counted from right to left. The wire should be going into the 7th position, where the brown wire is located on this photo



Locate the OBD2 PTO monitor extension cable. It will have OBD2 Connectors at both ends (One male and one female) and has a single blue wire coming out.

Connect the Azuga GPS Device securely to the female end of the cable.

Connect the blue wire that comes off of the cable to the power source that will provide voltage when the rear hatch is open.

Connect the male end of the cable to one of the open female ends of the Y-Cable. The Azuga device should light up green at this time and will stay that way for a period of time (1 to 5 minutes) while the device initializes. Once initialized the green light will turn off.

Start the vehicle engine, let it run for 30-60 seconds and then turn the ignition off. When the ignition is started, multi-colored LEDs will illuminate on the device and will turn off after a few seconds.

A few tips to properly organize and secure all cables and devices.

- Use Zip-ties or Twist ties to bundle excess cables neatly.
- Ensure routing of cables does not put undue stress on the cables or connections.
- Secure excess cables with zip ties where they will be out of the way of any moving parts of the vehicle or pedals.
- Secure the Azuga device in such a way that it will not have any excess movement or vibration.
- Replace any panels that may have been removed in the installation process
- If the other open end of the Y-Cable is not mounted in the location of the original port, then it should be secured in a location where it will be accessible for mechanics.

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