
PTO Quick Start Information

This section will give you specific instructions on how to wire a PTO on the 2019 and later 3500/4500/5500 models. This information is essentially the same as 2013 and later PTO connections.

Standard Stationary mode

The vehicles are shipped in standard stationary mode. This gives you the capability of turning on the PTO via the in cab switch. Standard as shipped setup is that the idle speed goes to 900 RPM and the engine speed is variable from 900 to 2000 RPM via the cruise control switches. You can also preset one speed using the single set speed function on the instrument cluster EVIC screen. Go to the PTO programming menu section.

Underhood you need to connect your two PTO hot shift solenoid connections to circuits 2 (12V+) and 3 (ground). Refer to the underhood wires below. Go to the PTO programming menu section.

Mobile mode

Mobile mode connects exactly the same as above. You will need to change to mobile mode in the Instrument cluster screen.

Remote mode

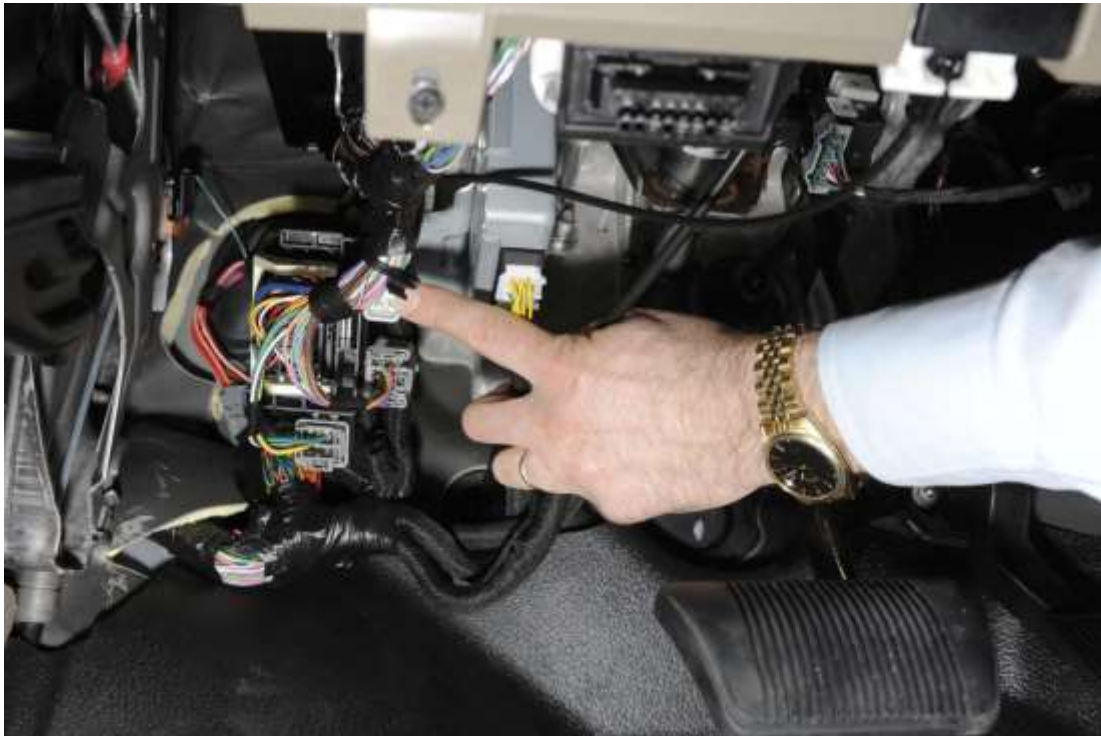
Remote mode is used when you require a remote switch and/or multiple speeds. For remote mode you cannot use the in cab switch. In remote mode the in cab switch becomes an unusable switch.

Remote mode requires that you install an aftermarket switch and use it to connect circuits F425 (pink) and V937 (violet/brown). These wires are located on the black connector that comes in the upfitter kit and connects to the white under dash connector shown below.

Wire Locations

Remote Mode in Cab wires.

The white connector under the dash contains the circuits V937 and F425 for PTO. The gray connector contains the circuits F922 and G425.



Both of these connectors are located in the left front corner of the cab inside the vehicle. They are forward of the park brake bracket. The view above shows the connectors on a vehicle with components removed for better visibility. The white connector is typically pointed downward and covered with gray foam tape. The gray connector shown directly below the white connector may also be covered in foam tape to prevent a rattle of the loose connector.

The white connector contains the following circuits:

1. V937 (Violet/Brown) PTO switch return
2. F425 (Pink) Remote PTO switch. Connects to V937 via the upfitter added switch. For remote/multi-speed mode only.

The mate to this connector is the smaller black connector that comes in the upfitter kit plastic bag.

The gray connector contains the following circuits:

1. F922 (Pink/yellow). This typically used for 12V+ ignition feed power for a PTO indicator light.
2. G425 this is the pass through wire that comes from the under hood wire.

There is a gray mating connector also in the upfitter kit plastic bag.

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Underhood Wires: All models



The light gray connector under the hood shown in the figure above (below the dark gray connector) next to the auxiliary PDC contains the following connections. The Pin numbers below are molded into the surface of the connector. The wires that plug to this connector are also in the upfitter kit plastic bag.

1. Aux. 5 switch (pink/brown) (upper toward passenger side) **New for 2019**
2. F928 (pink /yellow) (lower toward passenger side) Switched 12 v output that connects to the hot shift solenoid.
3. Z907 (Black) ground (upper toward driver side)
4. G 425 (violet/yellow) (lower toward driver side) This wire is a pass through wire which feeds through the dash to the gray under dash connector mentioned in the under dash section above.

Note: On 2019 and later trucks the two gray connectors shown above are angled downward compared to the photo above.