

SUPPLEMENT INSTRUCTIONS for FR SERIES PTO (IN03-01)

The 2005 Ford wiring has changed and FR series PTOs need to use a new wiring harness to match installation to the Ford provided wiring.

6.0L Diesel 2005 and later Ford with Torqshift automatic transmission Standard Installation

- Install the wiring harness at the PTO activation valve and pressure switch as described in the FR series installation manual.
- 2. In the cab near the parking brake pedal you will find the Ford blunt cut wires for connection to the PTO wiring harness. (Fig. 1) Easier access to the wires can be obtained by removing the access panel from under the steering wheel and removing the screws holding fuse box. (Fig. 2)
- Connect the solid ORANGE wire to the Ford solid ORANGE. Identified as circuit PTO.
- 4. The ORANGE w/BLUE stripe (solid BLUE in some Muncie harnesses) is supposed to connect to the Ford ORANGE/BLUE (circuit PTOC), but Job1 wiring by Ford did not have this wire connected to the vehicle PCM; therefore connect this wire to battery ground. Ford is to correct this on Vehicles built after Nov 2004. On vehicles built after Nov 2004 connect the Muncie Orange/Blue wire to the Ford Orange/Blue wire.
- 5. Connect the Muncie Orange/Red to the Ford Orange/Red (circuit PTO VREF)
- 6. Connect the Muncie Orange/Yellow to the Ford Orange/Yellow (circuit PTO_RPM)
- 7. Connect the Muncie Orange/Black to the Ford Orange/Black (circuit PTO_RTN)
- Install the Muncie switch either into the Muncie switch bracket or dash. Plug the switch harness into the switch so that the GREEN wire in the harness is at the TOP of the switch.
- 9. Plug the relay into the relay socket.
- 10. Locate a 12v ignition switched power source. This maybe found by locating the Ford WHITE/BLUE wire near the data link connector or by going to the fuse box. Connect the Muncie WHITE wire to this power source.

6.8L V10 GAS 2005 and later Ford with Torqshift automatic transmission.

Standard Installation

- Install the wiring harness at the PTO activation valve and pressure switch as described in the FR series installation manual.
- In the cab near the parking brake pedal you will find the Ford blunt cut wires for connection to the PTO wiring harness.
 (Fig. 1) Easier access to the wires can be obtained by removing the access panel from under the steering wheel and removing the screws holding the fuse box. (Fig. 2)
- 3. Separate the bundle and note that the ORANGE wires have stripes on them.
- 4. Connect the solid ORANGE wire to the Ford solid ORANGE. Should be marked PTO.
- 5. The ORANGE w/BLUE stripe (solid BLUE in some Muncie harnesses) is to connect to the Ford ORANGE/BLUE.
- 6. Connect the ORANGE/YELLOW to the Ford ORANGE/YELLOW.
- 7. Connect the ORANGE/WHITE to the Ford ORANGE/WHITE
- 8. Install the switch either into the switch bracket or dash. Plug the switch harness into the switch so that the GREEN wire in the harness is at the TOP of the switch.
- 9. Plug the relay into the relay socket.
- 10. Locate a 12v ignition switched power source. This maybe found by locating the Ford WHITE/BLUE wire near the data link connector or by going to the fuse box. Connect the Muncie WHITE wire to this power source.

FORD 2005 AND LATER - DIESEL ENGINE FR SERIES WIRING INSTRUCTION O_{PS} PCM Pin C2-15 Circuit No. 2244 Wire Color: Orange / Lt. Blue PCM Pin C1-06 Circuit No. 2246 Wire Color: Orange / Yellow PCM Pin C1-32 Circuit No. 2247 Wire Color: Orange / Black Wire Color: Orange / Red PCM PinC1-12 Circuit No. 2242 Wire Color: Orange * Prior to December, 2004, Ford had not installed this connection (PTOC) PRESSURE SWITCH BATTERY GROUND BLACK Circuit No. 2245 into the PCM. Connect to battery ground PCM Pin C1-44 Description F-250/350/450/550 Diesel Engine PCM PTO_ VREF PTO RPM TO_GND -12vdc Power Connection Wire Tag PTOC* PTO Reference Voltage INPUT (VPWR) INPUT (resistor) Circuit Intent PCM Ground OUTPUT HARNESS #34T39852 4-WIRE CONNECTOR YELLOW- Aux Dash Switch-For Use withor GREEN WIRE AT TOP Muncie Switch NOTE: The adjustment screw will RPM. Speeds below 1200 RPM engine from the pre-set 1200 increase the set RPM of the O TURN CLOCKWISE are not recommended. ROCKER SWITCH WI RELAY 30T35687

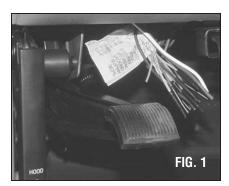
ACTIVATION SOLENOID

FORD 2005 AND LATER - GAS ENGINE FR SERIES WIRING INSTRUCTION O_{PS} Circuit No. 2244 Wire Color. Orange / Lt. Blue Circuit No. 2245 Wire Color. Orange / White Circuit No. 2246 Wire Color: Orange / Yellow Circuit No. 2242 Wire Color: Orange PRESSURE SWITCH BATTERY GROUND BLACK PCM Pin C2-42 PCM Pin C2-09 PCM Pin C2-26 PCM Pin C2-07 Description F-250/350/450/550 GAS Engine PCM PTO_Mode F PTO_Engage F PTO_RPM P Wire Tag PTO_IND -12vdc Power Connection INPUT (VPWR) INPUT (resistor) INPUT (VPWR) Circuit Intent OUTPUT HARNESS #34T39851 4-WIRE CONNECTOR YELLOW: Aux Dash Switch-For Use withou GREEN WIRE AT TOP SREEN-Aux PTO Engage Light Muncie Switch NOTE: The adjustment screw will RPM. Speeds below 1200 RPM engine from the pre-set 1200 increase the set RPM of the URN CLOCKWISE are not recommended. ROCKER SWITCH M RELAY 0 30T35687 808

ACTIVATION SOLENOID

OPTIONAL: Using the FORD supplied AUX switch (Upfitter switches) (Gas or Diesel):

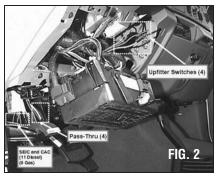
- 1. Wire the harness as listed above.
- Do not use the Muncie rocker switch.
 Connect YELLOW wire from the Muncie
 switch socket to the wire from the desired
 Ford AUX switch. The Muncie PTO will not
 draw more than 10 Amps, so any of the
 switches can be used.
- Install a PTO indicator light in the vehicle dash (not supplied). Connect the GREEN wire from the rocker switch socket to the light and connect the other side of the Light to 12vdc power source.





RPM Adjustment with Muncie Control

- Muncie wiring harnesses include a variable control for adjusting the vehicle throttle advance to a speed other than the preset 1200 RPM. Locate the module with the set screw adjustment and the label indicating adjustment.
- Turn the adjustment screw clockwise the increase RPM (Max 2300 RPM) (Fig. 3).
 Use tachometer to set speed. Mount under the dash.
- Once the speed is adjusted, the engine will advance to this speed every time the PTO is activated.
- 4. The speed can not be adjusted below the recommended 1200 RPM operating speed set by Ford. This ensures adequate PTO activation pressure from the transmission and torque converter lock-up.









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