



**Muncie[®]
Power
Products**

KEEP IN VEHICLE
READ OPERATING INSTRUCTIONS
INSIDE BEFORE OPERATING PTO

ELECTRICAL CONNECTIONS FOR 6R140 FORD AUTOMATIC TRANSMISSION

SUPPLEMENT WIRING INSTALLATION INSTRUCTION

2017 & Later FORD F-250 — F-550 (Ford Bulletin Q256)
2016 & Later F-650 — F-750 CHASSIS
(Ford Bulletin Q236 (2016), Q248(2017))

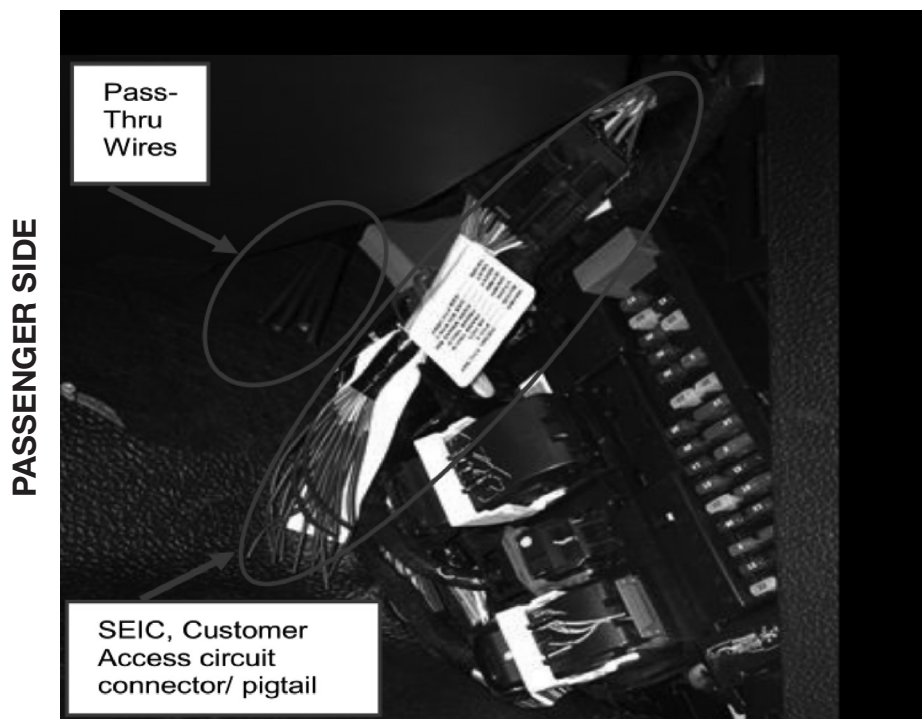
SUPPLEMENT TO IN10-01 FR6* and IN16-05 INSTALLATION INSTRUCTIONS

FOLLOW THE INSTALLATION PROCEDURES AND PRECAUTIONS LISTED IN MANUAL.

- A. **IMPORTANT:** Disconnect battery prior to installing electric/hydraulic activation kits.
- B. Locate the wiring harness provided with your PTO. Separate the harness at the 4-wire connector.
- C. The engine compartment section has the connection to the PTO activation solenoid and pressure switch. Make the connection to both components.
- D. Feed the 4-wire connector (white) thru to the inside of cab. Use a pass-through or drill a $\frac{5}{8}$ " hole and grommet provided in your kit. Connection to the Ford wiring is located in the cab. Locate bluntcut body builder wires provided by Ford as described in this supplement.
- E. Follow the diagrams for your vehicle engine type and operation mode.

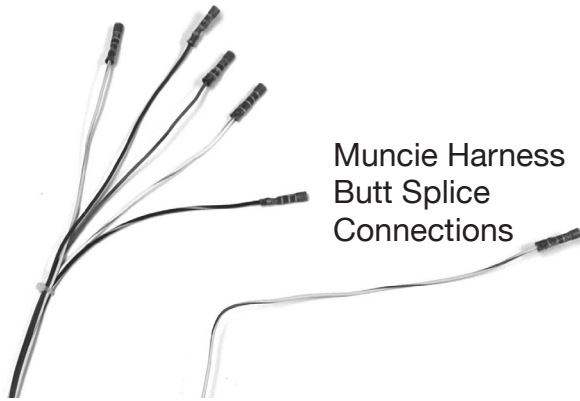
2017 and Later F-250 — F-550 Chassis - (Passenger Side)

Changes to the vehicle SEIC wiring were made in the 2017 model year beginning Sept. 2016. This supplement adapts the Muncie wiring harnesses to these vehicles. Locate the 2017 and Later FORD wires bundled together at the **PASSENGER SIDE** behind the kick panel at the passenger's feet.



2017 and Later F-250 – F-550 Chassis - (continued)

The Muncie harness passes through to within the cab. Locate the butt splice connectors and make the connections to the Ford connector/blunt-cut pigtail wires as shown in charts for the harness you were provided.



PTO SHIFT OPTION CODES

DIESEL

PTO	Mode	Wire Harness
-63*X	Single Mode	34T43730
-63*B	Dual Mode	34T43740

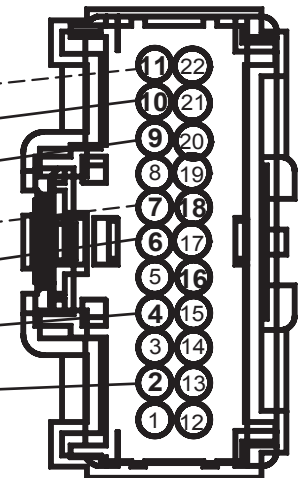
GAS

PTO	Mode	Wire Harness
-F3*X	Single Mode	34T43735
-F3*B	Dual Mode	34T43745

PTO for 2017 and Later F-250 – F-550 DIESEL Engine

Wire Harness 34T43730 (-63*X Single Mode)

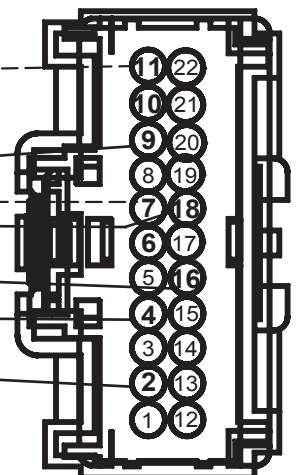
Muncie Harness Color	Ford Wire Color
--OR - Mobile*	Blue/Orange Pin 11
Brown----- White/Brown	Pin 10
Green ----- Green	Pin 9
Yellow/Green --- Stationary*	Yellow/Green-- Pin 7
Gray/Violet ----- Gray/Violet	Pin 6
Blue/White ----- Blue/White	Pin 4
Yellow/Gray --Green/Orange	Pin 2



PTO for 2017 and Later F-250 – F-550 GAS Engine

Wire Harness 34T43735 (-F3*X Single Mode)

Muncie Harness Color	Ford Wire Color
Yellow/Blue -----Blue/Orange Mobile*	Pin 11
←-OR Yellow/Green Stationary*	Pin 7
Green ----- Green	Pin 9
Yellow/Green-- Yellow/Green	Pin 18 (5v Ref)
Yellow/Violet --- Yellow/Violet	Pin 16
Blue/White -----Blue/White	Pin 4
Yellow/Gray -- Green/Orange	Pin 2



*Connect to one wire only. Connecting both wires together is used for split-shaft operation where valid.

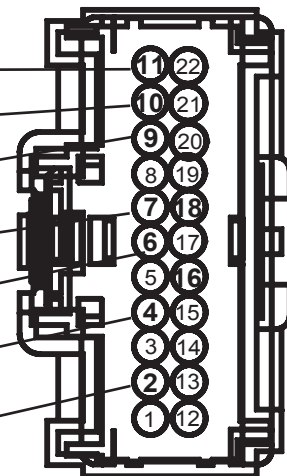
2017 and Later F-250 – F-550 Chassis - (continued)

PTO for 2017 and Later F-250 – F-550 DIESEL Engine

Switchable Dual Mode - Stationary AND Mobile option.

Wire Harness 34T43740 (-63*B Dual Mode)

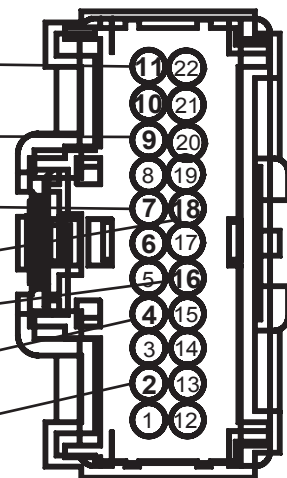
Muncie Harness Color	Ford Wire Color DIESEL
Blue/Orange -----	Blue/Orange Pin 11
White/Brown -----	White/Brown Pin 10
Green -----	Green Pin 9
Yellow/Green -----	Yellow/Green Pin 7
Gray/Violet -----	Gray/Violet Pin 6
Blue/White -----	Blue/White Pin 4
Yellow/Gray -----	Green/Orange Pin 2



PTO for 2017 and Later F-250 – F-550 GAS Engine

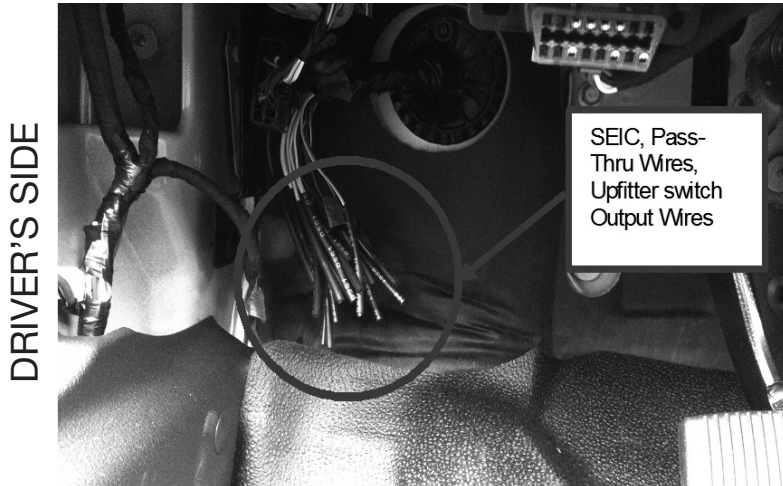
Wire Harness 34T43745 (-F3*B Dual Mode)

Muncie Harness Color	Ford Wire Color GAS
Blue/Orange -----	Blue/Orange- Pin 11
Green -----	Green ---Pin 9
Yellow/Blue -----	Yellow/Green ---Pin 7
Yellow/Green -----	Yellow/Green- Pin 18---(5v Ref)
Yellow/Violet -----	Yellow/Violet- Pin 16
Blue/White -----	Blue/White ---Pin 4
Yellow/Gray -----	Green/Orange ---Pin 2



2016 and Later F-650 OR F-750 Chassis - (Driver's Side)

Changes to the 2016 and later model year Medium Duty F-650 and F-750 chassis took effect at the beginning of 2016. This supplement adapts the Muncie wiring harness to these chassis'. The F-650 – F-750 Series chassis have the wire connections located at the **left hand side of the driver's foot well, behind the data link connector.**



PTO SHIFT OPTION CODES DIESEL

PTO	Mode	Wire Harness
-63*X	Single Mode	34T43730
-63*B	Dual Mode	34T43740

GAS

PTO	Mode	Wire Harness
-F3*X	Single Mode	34T43735
-F3*B	Dual Mode	34T43745

2016 and Later F-650 – F-750 DIESEL Engine

Wire Harness 34T43730 (PTO Code -63*X) (Single Mode)

Muncie Harness Color	Ford Wire Color
Blue/White	Blue/White
Yellow/Green	Yellow/Green OR Blue/Red
White/Brown	White/Brown
Green	Green
Gray/Violet	Gray/Violet
Yellow/Gray	Yellow/Gray

2016 and Later F-650 – F-750 GAS Engine

Wire Harness 34T43735 (PTO Code -F3*X) (Single Mode)

Muncie Harness Color	Ford Wire Color
Blue/White	Blue/White
Yellow/Blue	Yellow/Blue OR Blue/Red‡
Yellow/Green	Yellow/Green
Green	Green
Yellow/Violet	Yellow/Violet
Yellow/Gray	Yellow Gray

‡2016 Early Build Blue/Orange

2016 and Later F-650 OR F-750 Chassis - (Continued)

2016 and Later F-650 – F-750 DIESEL or GAS Engine

Wire Harness 34T43740 Diesel (PTO Code -63*B) or 34T43745 Gas (PTO Code -F3*B)
Switchable Dual Mode - Stationary AND Mobile option.

Match to these wires			
DIESEL		GAS	
Muncie	Ford	Muncie	Ford
34T43740		34T43745	
Blue/White -----	Blue/White	Blue/White -----	Blue/White
White/Brown -----	White/Brown	White/Brown -----	White/Brown
Gray/Violet -----	Gray/Violet	Gray/Violet -----	Gray/Violet
Green -----	Green	Green -----	Green
Yellow/Green -----	Yellow/Green	Yellow/Blue -----	Yellow/Blue
Blue/Orange -----	Blue/Red‡	Blue/Orange -----	Blue/Red‡
Yellow/Gray -----	Yellow/Gray	Yellow/Gray -----	Yellow/Gray

‡2016 Early Build Blue/Orange

PTO Activation Installation – ALL FORD CHASSIS

Install the Muncie switch and indicator light into the Muncie switch bracket.
(Note: Ford Auxiliary switches cannot be used for the “Stationary AND Mobile” installations.)

With wiring connected test the vehicle. With the Truck in park and the **PTO switch in the “Off” position**, start the engine. Listen for a few seconds for any unnatural noises. **Always stay clear of rotating components.** (Should an unnatural noise occur, **SHUT OFF the engine and remove the ignition keys.** Remove the PTO and examine both the PTO gear and the transmission gear for any defects.)

When satisfied with the PTO installation, check the transmission oil level and fill to proper level per the instructions found in the vehicles operator’s manual. Adding a PTO will require adding transmission fluid. Run engine for 5 to 10 minutes and check for leaks. Always stay clear of rotating components and never go under the truck with the engine running.

Shut OFF engine and remove the ignition keys. Inspect the capscrews to make sure they are properly tightened. Mounting bolts/nuts should be checked on a regular basis.

For help installing pumps or other equipment refer back to page 13 of Installation/ Operator’s manual.

Return to the FR6* IN10-01 OR CS6Q IN16-05 installation instructions to complete the PTO installation.



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