

Mack LR Wiring Harness Installation

Date: 6.3.2024

Subject: Mack LR Wiring Harness Installation

Models: Mack LR



Cummins Clean Fuel Technologies

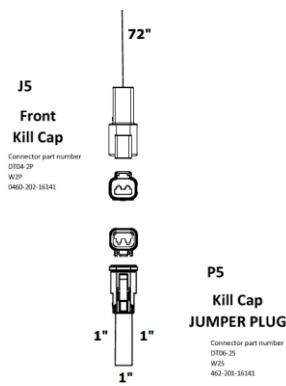
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Connect the chassis wiring harness to the fuel system or FMM and run the harness towards the front of the truck. If you have a bumper fill, you will need to run the bumper fill. On the chassis harness there is connector P5 Front Kill Cap which will be used for the bumper fill. Remove the J5 plug from the chassis harness, and it should be long enough to reach the bumper fill connection. This connection will need the P5 connection removed, and terminals cut so you can crimp the Male pin Deutch terminals on there and DT04-2P connector and secondary lock on there so it will connect to the bumper fill connection. (On the newer harness this has been corrected) Once that is done run the rest of the wires into the cab on the left-hand side of the cab through the bulkhead.

Chassis Harness Side
MP92-1643



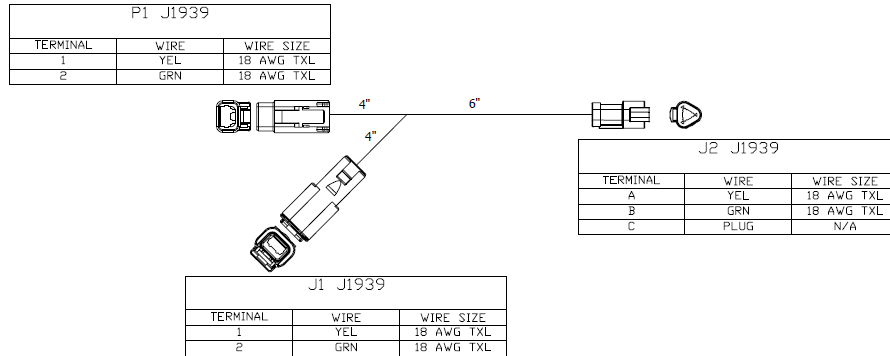
Bumper Fill Side
MP92-1643



The P2 J1939 connection needs to run into the cab on the LH side to the dash panel, as well as the rest of the chassis interface harness. Remove the Terminating resistor out of the CAN 2 location. Also remove the secondary lock on the resistor and also on P1 on MP92-1630, put the secondary lock from the resistor in P1 and the secondary lock from P1 into the resistor. This is so the connections will plug in correctly. Now P1 will connect to the CAN 2 connector and the resistor will plug in to J1. Then P2 from the chassis interface will plug in to J2 on MP92-1630. If P2 will not reach use MP92-1035 which is CCFT J1939 extension harness. This harness comes in the Gauge kit.

CAN 2 Term Resistor
location





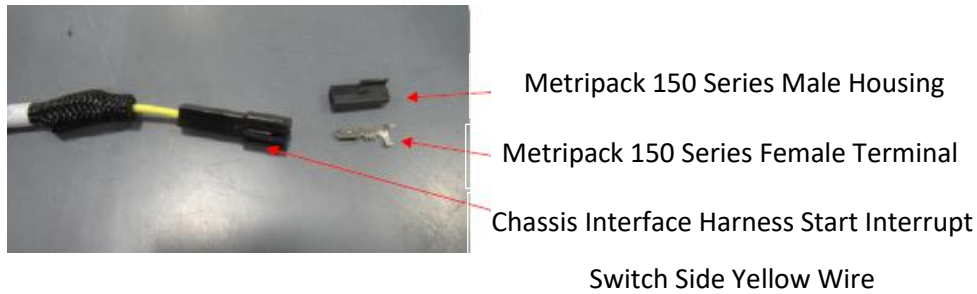
On the center console take the 2 panels off or more depending on if you can find the 8 pin body builder connector and access to the key switch location.

Remove Panels

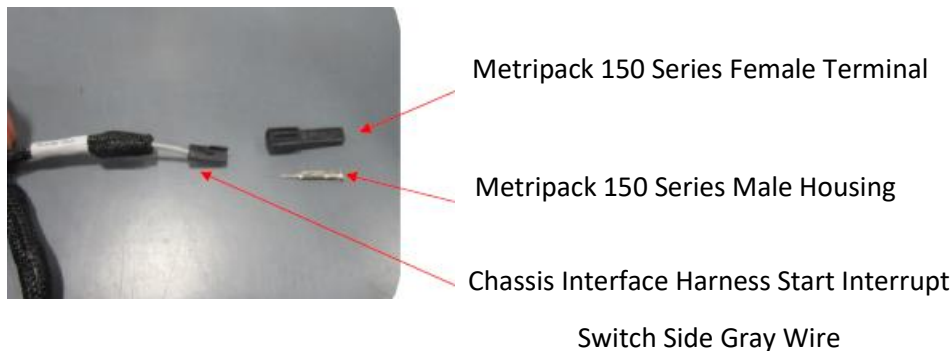
If 8-PIN connector is not located remove this panels.



Run the Start Interrupt, Power, and Ground wires into the cab. Start Interrupt needs to route by the key switch, and the power and ground need to route to the center of the doghouse. Cut the crank wire coming from the keyswitch (pin B on key switch) in a location that connectors can be installed on both ends. Install the Metripack 150 Series Male Housing on the wire going to the key switch side to connect to the yellow Starter Interrupt Switch Side connector on the Chassis Interface Harness.



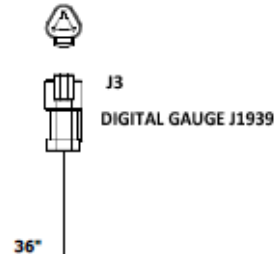
Install the Metripack 150 Series Female Housing on the side going to the starter to connect to Gray Starter Interrupt Starter Side on Chassis Interface Harness.



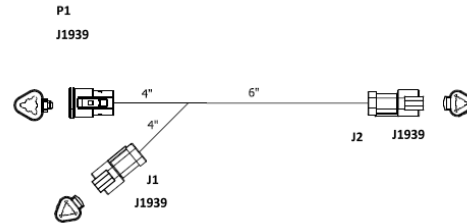
Plug in the Starter Interrupt wires on the Chassis Interface Harness to these connectors. It is imperative that the yellow Starter Interrupt wire on the Chassis Interface Harness goes to the key switch side and must get power directly from the key switch when the key is in the start (crank) position.

Run the MP92-1643 wiring harness up to the gauge cluster for the fuel gauge install. Install the CCFT digital fuel gauge in the primary drive side (unless it is dual drive then put a gauge on each side). For the dual gauge setup, use the harness MP92-1034 P1 will connect to the J3 on MP92-1643. Then on MP92-1034 J1 and J2 will connect to the MP92-1035 extension harnesses to plug in to each gauge on harness MP92-1031. The rest of the of the wires will run in to the center console location for the body builder connection and the start interrupt connection as well.

MP92-1643



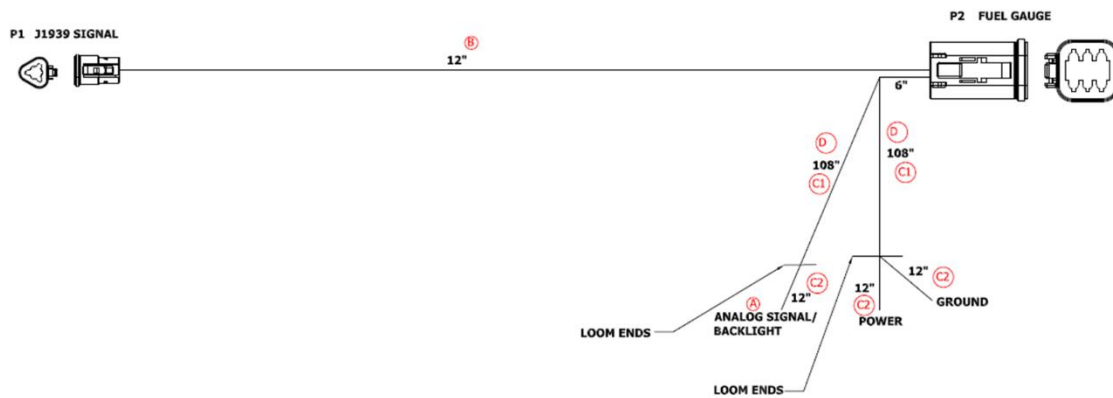
MP92-1034



MP92-1635



MP92-1631

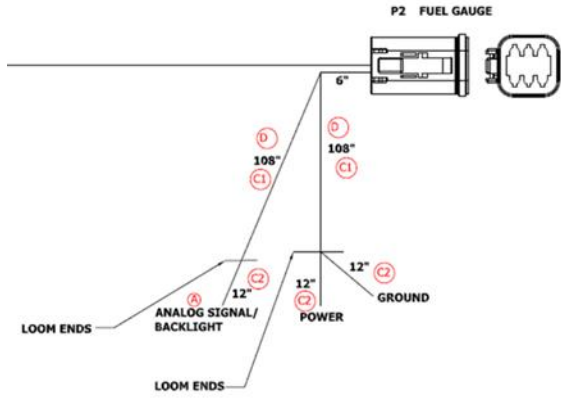


Lefthand dash gauge location



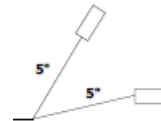
Righthand dash gauge location

Connect the power, ground, and backlight (this one is optional it doesn't need hooked up) for the fuel gauge. Need to locate a Key switch power and a Ground where 2 gauges can be hooked up. Harness MP92-1031 will need to connect to each location.



Connect the MP92-1643 Power, Switch power, and Ground to the body builder connection in the center console.

T3
Cab Ground
Pin F,G, OR H



T1
Spare
Ignition Pwr
Pin B,OR C

