

## Peterbilt 520 Electrical Install

1. Remove black footwell panel and lower steering column panels using square drive bit.
  - a. Note: These are square drive NOT Philips head and will strip easily.
  - b. Note: Make sure cab is secure and all loose items in cab are retained before flipping the cab forward.
2. Locate the factory start interrupt circuit
  - a. Orange wire-key side
  - b. Grey wire-truck side
  - c. Use Momentum Part Number MP92-1021 harness
  - d. Note: Lift locking tabs on PACCAR style connections
3. Feed wire through the floor where the air line block is in the floor behind the steering column panel.
4. On the doghouse of the truck between the passenger and driver's seat remove the two center panels as shown.
5. Locate the "body builder connection 1", this should be a round style connector and connect the MP92-1021 round connector to the truck.
6. Locate the FBO switched power, ground, and inst. Lighting splice blocks located in the same area as the previous step.
7. Remove the 4 screws that retain the gauge assembly to the dashboard of the truck.
  - a. Note: Do not remove the three screws around the rectangular screen as these are used to retain the screen assembly to the gauge assembly.
8. Locate the fuel gauge and remove the jumper wire between the gauges, as well as the input signal wires coming into the factory gauge.
9. Unscrew the factory gauge from the gauge panel assembly.
10. Prior to installation of the Momentum digital gauge, the index point used to locate the factory gauge on the panel will have to be filed to accept the Momentum gauge.
  - a. Note: Use a flat file to make the index point flush with the gauge hole and then turn the file 90 degrees to create a small cut in the panel to accept the momentum gauge.
11. To install the MP92-1031-C harness, the front dash panel closest to the windshield will have to be removed along with the small 3-switch panel as illustrated.
12. Route the MP92-1031-C harness from the doghouse area of the cab to behind the dashboard area where the momentum fuel gauge will be located.
13. The MP92-1035 connects into the MP92-1031-C behind the dashboard area.
14. Run the MP92-1035 from the back of the fuel gauge to the floor area where the air manifold is located.
  - a. Note: Black lower dash panel must be removed.
  - b. Note: Be cautious when reinstalling lower dash panel to not pinch any wires reinstalling the panel.

### Splice Block Wire Install:

1. Remove the blue plastic secondary lock from the splice block.
2. Remove black outer cover (cap)
3. Remove splice jumper
4. Install jumper connection from the momentum wiring harness, ensure Metropak GT280 Style connector.

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5. Install wire and ensure it clicks into place.
6. Reinstall parts in reverse order of which they were removed.
7. Wiring Codes-MP92-1031-C
  - a. Blue wire-instrumentation backlighting
  - b. Red wire-switched power
  - c. Black wire-ground

### Lifting Cab Assembly:

1. The jack assembly is located on the passenger side of the truck just behind the cab.
2. The handle is located inside the passenger side of the cab on the outside of the seat closest to the door.
3. Ensure the valve on the jack is in the correct position and use the jack to lift the cab of the truck.
  - a. Note: Check that all doors are closed and that all items inside of the cab are properly secured.
4. Lift the cab until it is high enough to clear the prop rod which is located on the bottom of the cab underneath the passenger side of the cab in the lifted position.
5. Slowly set the cab back down on the prop rod ensuring that it is in place correctly.
  - a. Note: Never, under any circumstances, rely on the hydraulic jack to hold the weight of the cab while working underneath. Serious injury or death may occur.

### Gauge Harness-Truck Side:

1. Locate the engine harness, this is usually located on the driver's side of the engine underneath the cab of the truck.
2. Plug in the Y=Harness from the Momentum harness into the Paccar chassis interface harness.
  - a. This harness has two female receptacles and one male receptacles.
  - b. The female receptacles go to the chassis interface harness and the MP92-1035 harness that was ran into the cab of the truck.
    - i. Note: The female receptacles are reversible, it does not matter which one you use with which plug.

### Fuel Sender Harness:

1. Locate the breakout harness coming from the master side mount system, this will be the round style plug that is installed into the FMM side of the units.
2. Locate the Paccar fuel sender harness on the chassis interface harness.
  - a. Note: This should be located approx. 2 feet from our breakout and labeled "Fuel Sender"

### PRD Installation:

Note: Ensure PRD vents are installed with proper sheathing throughout the truck.

### Coolant Lines Cummins ISX12N:

1. The coolant lines for the FMM system regulator must be plumbed into the truck's cooling system.
2. The coolant supply line must be tapped into the rear passenger side of the block.

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- a. There is a small threaded plug that will need to be removed and a 90-degree brass fitting installed in place of the plug. Once these are done the rubber coolant line can be attached appropriately.
3. The coolant return line must be plumbed into the heater core line with a brass tee assembly. This coolant line is located on the passenger side of the engine close to the frame rail towards the front of the engine.
  - a. Note: DO NOT install both lines into the rear of the block. The heater core control valve will restrict flow of coolant to the regulator assembly and icing of the regulator may occur in some climates.