



Preliminary Information

PIP5838 Service Diesel Exhaust Fluid Tank Wiring Harness Pinout Change. Possible DTCs P20B9 and or P20C1

Models

| Brand: | Model: | Model Years: | VIN: | | Engine: | Transmissions: |
|-----------|-------------------------|--------------|------|-----|---------|----------------|
| | | | from | to | | |
| Chevrolet | Silverado 2500HD/3500HD | 2020 - 2022 | All | All | 6.6 L5P | All |
| GMC | Sierra 2500HD/3500HD | 2020 - 2022 | All | All | 6.6 L5P | All |

| | |
|----------------------------|---|
| Involved Region or Country | United States, Canada, Israel, Palestine, Australia/New Zealand |
| Condition | A technician may find that after replacing the wire harness on the DEF tank DTCs P20B9 and/or P20C1 may be set. |
| Cause | This may be caused by a wiring change to the service DEF tanks. |

Correction:

Examine the 16 pin wire harness connector.

If pin location 12 is empty, the wire harness is the first design.

If pin location 12 has a wire in the connector, the wire harness is the second design.

Please verify which wire harness is installed on the vehicle prior to ordering. This can be done by checking for the presence of a pin in location 12 of the wire harness.

See the wiring pinout charts below:

| First Design | |
|--|--|
| Wiring Harness Part Numbers 85108194, 84876221, 84831758, 84230960 | |
| Pin | Function |
| 1 | Diesel Exhaust Fluid Tank Temperature Sensor Signal |
| 2 | Diesel Exhaust Fluid Tank Temperature Sensor Feedback Signal |
| 3 | Diesel Exhaust Fluid Pressure Sensor Low Reference |
| 4 | Diesel Exhaust Fluid Pressure Sensor Signal |
| 5 | Diesel Exhaust Fluid Pressure Sensor 5 Volt Reference |
| 6 | Not Occupied |
| 7 | Diesel Exhaust Fluid Smart Pump Control |
| 8 | Diesel Exhaust Fluid Smart Pump Supply Voltage Phase 2 |
| 9 | Diesel Exhaust Fluid Reservoir Heater Control |
| 10 | Diesel Exhaust Fluid Heating Tank 2 Heater Control |
| 11 | Diesel Exhaust Fluid Tank Heater Low Control |

| 12 | Not Occupied |
|-------------------------------------|--|
| 13 | Not Occupied |
| 14 | Diesel Exhaust Fluid Pump Motor Stator Low Reference |
| 15 | Diesel Exhaust Fluid Heating Tank 2 Heater Control Low |
| 16 | Diesel Exhaust Fluid Smart Pump Supply Voltage Phase 3 |
| Second Design | |
| Wiring Harness Part Number 85138745 | |
| Pin | Function |
| 1 | Diesel Exhaust Fluid Tank Temperature Sensor Signal |
| 2 | Diesel Exhaust Fluid Tank Temperature Sensor Feedback Signal |
| 3 | Diesel Exhaust Fluid Pressure Sensor Low Reference |
| 4 | Diesel Exhaust Fluid Pressure Sensor Signal |
| 5 | Diesel Exhaust Fluid Pressure Sensor 5 Volt Reference |
| 6 | Diesel Exhaust Fluid Tank Heater Low Control |
| 7 | Diesel Exhaust Fluid Smart Pump Control |
| 8 | Diesel Exhaust Fluid Smart Pump Supply Voltage Phase 2 |
| 9 | Diesel Exhaust Fluid Reservoir Heater Control |
| 10 | Not Occupied |
| 11 | Not Occupied |
| 12 | Diesel Exhaust Fluid Heating Tank 2 Heater Control |
| 13 | Not Occupied |
| 14 | Diesel Exhaust Fluid Pump Motor Stator Low Reference |
| 15 | Diesel Exhaust Fluid Smart Pump Supply Voltage Phase 3 |
| 16 | Diesel Exhaust Fluid Heating Tank 2 Heater Control Low |

Warranty Information

Version History

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|----------|--------------------------|
| Version | 1 |
| Modified | 02/15/2022 - Created on. |



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