



Preliminary Information

PIP5838A 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.

Service Information has further details including circuit color and circuit numbers found in Engine Controls Schematics.

Please refer to titles below in SI:

Reductant Controls – Reductant Pump and Sensor Assembly, Line Heater and Reductant Sensor Module (L5P+Early Build)

Reductant Controls – Reductant Pump and Sensor Assembly, Line Heater and Reductant Sensor (L5P+Late Build)

As a quick reference please refer to the tables 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

Version	2
Modified	02/15/2022 - Created on. 03/09/1922 - Updated to seperate tables and refer to SI.



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