



## Preliminary Information

### PIP5838B 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 the schematics and connector end view in Service Information do not match the pin location on the A38 reductant pump/sender assembly connector (16 way connector). This will occur if the DEF tank has been replaced on a 2020 – early build 2022 (herein known as early build) and will typically result in DTCs P20B9 and/or P20C1 setting.
Cause	There was a change to the DEF tank harness for service.

#### Correction:

Model years 2020 through early build 2022 were originally built with cavities 6, 12 and 13 unoccupied. After mid-year 2022 (herein known as late build), the pump/sender assembly and the corresponding connector terminals were moved. Terminal 10 was moved to cavity 12 and terminal 11 was moved to cavity 6. All tanks built after that date, including tanks to service the 2020 – early build 2022 are configured this way. If it is necessary to replace the reductant tank in an early build vehicle, it will come with the correct harness already installed and installation would proceed with no special instructions.

If it becomes necessary to perform diagnostics on an early build vehicle with the updated reductant tank installed, you can use the 2022 late build schematics and connector end view or the tables below.

The early build harnesses are still available to service a damaged harness but only if it has the original reductant tank.

#### 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

### Version History

Version	3
Modified	02/15/2022 - Created on. 03/09/2022 - Updated to separate tables and refer to SI. 06/02/2022 - Updated to clarify early and late build models and for schematic clarifications.



GENERAL MOTORS

© 2022 General Motors. All Rights Reserved.