



ISSUE DATE:	05/03/2023
SERVICE BULLETIN SUBJECT:	Alternative Expansion Tank Coolant Sensor Retrofit
VINs or MODELS AFFECTED:	Service Specified Buses
COMPLETE BY:	Next Service Opportunity
SERVICE BULLETIN #:	IB-23-032
LABOR OPERATION CODE:	CE45Z

NOTICE: It is expected that this process may require up to 1 hour per bus. Please schedule appropriately to minimize vehicle downtime.

Alternative Expansion Tank Coolant Sensor Retrofit

Description:

The procedure describes the process of replacing the expansion tank coolant sensor.

Tools/Parts Required:

Tools and Supplies Required:

Wire Cutters/Strippers	
Deutsch Crimpers	
Electrical Tape	

Kit Parts Required:

Kit PN	Kit Name	
168-0456	DRY SINK SENSOR, LEVEL, OPTIC, 1/4" NPT	1
001291	3 PIN CONNECTOR	1
001352	WEDGELOCK, 3 POSITION, RECEPTACLE	1
001298	CONTACT, PIN, SOLID, SIZE 16, 16-20 AWG	3
014538	TUBE, CNVLTD, SLIT, 1/4"ID, HEAT RES NYL, BLK	1

Procedure:

1. Strip the insulation approximately ¼-inch from the end of the wire.
2. Using the Deutsch crimping tool, insert the terminal **(001298)**, then adjust the tool until the terminal is flush with the opening.
3. Insert the wire into the terminal **(001298)** and crimp it.
4. Insert the terminal **(001298)** into the connector's corresponding Cavity ID. Repeat for the other two pins.

CAV ID	TERMINAL ID	COLOR	AWG
A	001298 CONTACT, PIN,	RED	16-20
B	001298 CONTACT, PIN,	BLK	16-20
C	001298 CONTACT, PIN,	WHITE	16-20

5. Insert the wedge lock **(001352)** in front of the plug.
6. Install the split loom **(014538)** over all three wires (black, red, white) keeping 20mm distance from the connector **(001291)** end and the sensor end. Use electrical tape to secure loom to the wires.

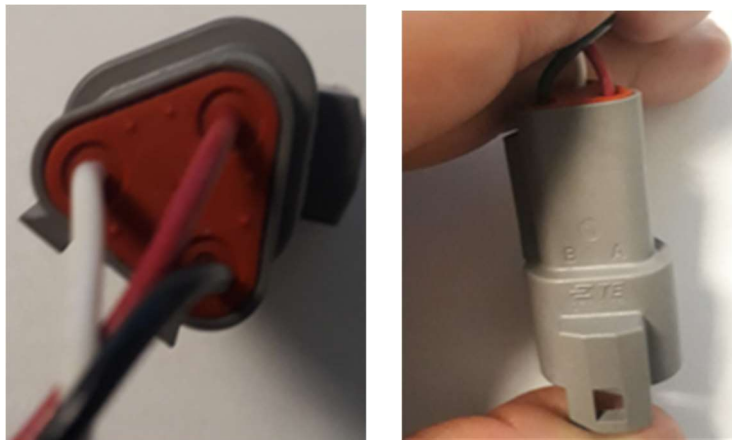


Figure 1: Connector (001291)

7. Plug the terminated connector **(001291)** in to JM062/JM063 on the bus side harness.