

Technical Service Bulletin (TSB)

Mis-Installed 3-way Coolant Valve

REFERENCE:	TSB: 07-006-23 GROUP 07 - Cooling	Date:	May 13, 2023	REVISION:	—	
VEHICLES AFFECTED:	2022 (JL) Jeep Wrangler PHEV This bulletin applies to vehicles built on June 4, 2022 (MDH 0604XX) equipped with the 2.0L I4 DOHC DI TURBO PHEV Engine (Sales Code ECX).			MARKET APPLICABILITY: ☒ NA ☐ SA ☐ EE		☐ MEA ☐ IAP ☐ CH
CUSTOMER SYMPTOM:	The customer may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find the following Diagnostic Trouble Code (DTC): - P0E80-00 - Coolant Bypass Valve "B" Control Stuck Closed. Customer may also experience the following: - Intermittent no heat.					
CAUSE:	Mis-routed three way coolant valve hoses.					

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 23-142, date of issue May 13, 2023. All applicable RSU VINs have been loaded. To verify this RSU service action is applicable to the vehicle, use VIP or perform a VIN search in DealerCONNECT/Service Library. All repairs are reimbursable within the provisions of warranty. This RSU will expire 18 months after the date of issue.

REPAIR SUMMARY:

This bulletin involves possibly rerouting the three way valve hoses.

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
07-46-01-90	Three Way Valve Hoses - Inspect (1 - Semi-Skilled)	7 - Cooling	1.1 Hrs.
07-46-01-91	Three Way Valve Hoses - Inspect and Reroute (1 - Semi-Skilled)	7 - Cooling	1.4 Hrs.
Failure code	ZZ	Service Action	

SPARE PARTS:

Qty	Part No.	Description	Notes
1 Gal.	68163848AA	Coolant - Gallon	

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the one listed are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If a customer's VIN is listed in VIP or your RSU VIN list, perform the repair. If any vehicle not on the VIN list exhibits any of the symptoms listed above in the customer symptom section, perform the Repair Procedure.

SPECIAL TOOLS/EQUIPMENT:

Description	Ref. No.	Notes
wiTECH or Equivalent	–	–

INSPECTION:

1. Locate the three-way coolant valve. Refer to the detailed service procedures listed in DealerCONNECT>Service Library under: 09 - Engine, 2.0L / Cooling System / Engine Cooling / Valves / Removal and Installation.
2. Inspect the hose routing. Hose number one should be at the top of the valve: (Fig. 1) , (Fig. 2) , (Fig. 3) .



Fig. 1
Correct Hose #1 Location



Fig. 2
Incorrect Hose #1 Location

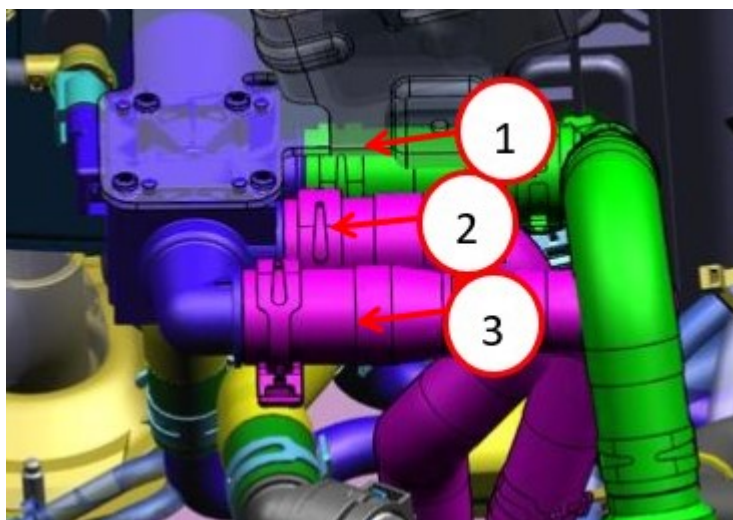


Fig. 3
Correct Hose Locations

- 1 - Number 1 Hose
- 2 - Number 2 Hose (Runs to Dash Area)
- 3 - Number 3 Hose (Runs to Dash Area)

NOTE: The bottom two hoses should route coolant back to the dash and continue to run parallel and not cross each other.

3. Are the three way hoses routed incorrectly?
 - YES>>> Proceed to [Step 1](#) of the Repair Procedure.
 - NO>>> This bulletin has been completed. Use Inspect LOP (07-46-01-90) to close this active RSU. Normal diagnosis should be performed.

REPAIR PROCEDURE:

1. Drain the high temperature cooling system. Refer to the detailed service procedures listed in DealerCONNECT>Service Library under: 07 - Cooling / Standard Procedure (Draining).
2. Using hose clamp pliers, Remove the incorrect hoses from the Three Way Coolant Valve.
3. Install the hoses to the correct coolant valve ports. Use the hose alignment marks on the backside of the three way valve to confirm each hose is orientated correctly (Fig. 4) .

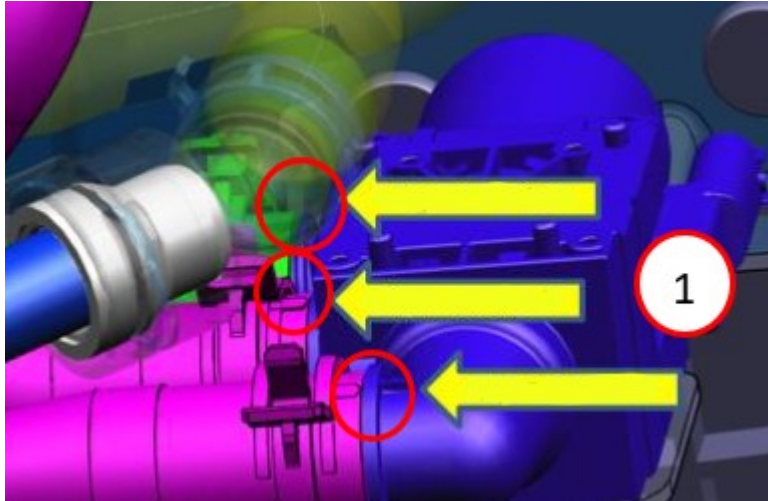


Fig. 4
Hose Alignment Marks

1 - Hose Alignment Marks

4. Refill coolant and inspect for leaks.
5. Clear all DTCs that have been set in any module.

POLICY:

Reimbursable within the provisions of the warranty.

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