



## TECHNICAL SERVICE BULLETIN

### 2015-2019 Transit - 3.7L - Block Heater - Coolant Leak From The Thermostat Housing

**21-2408**18 November  
2021**Model:**

<b>Ford</b> 2015-2019 Transit	Engine: 3.7L
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**Issue:** Some 2015-2019 Transit vehicles equipped with a 3.7L engine and block heater may exhibit a repeat coolant leak from a deteriorated O-ring and/or intake manifold thermostat housing. This may be due to the block heater in the thermostat housing. To correct the condition, install a block heater service kit in the engine block.

**Action:** Follow the Service Procedure steps to correct the condition if the vehicle meets all of the following criteria:

- 2015-2019 Transit
- 3.7L engine
- Equipped with a block heater in the thermostat housing
- Coolant leak from thermostat housing

**Parts**

Service Part Number	Quantity	Description
KK4Z-6D008-A	1	Block Heater Service Kit
VC-13DL-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (All Markets Except Canada)
CVC-13DL-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (Canada Only)

Quantity refers to the amount of the service part number required to repair the vehicle.

As Needed indicates the amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

**Parts****Parts To Inspect And Replace Only If Necessary**

Service Part Number	Quantity	Description
AT4Z-8527-A	If Needed	Thermostat Housing O-ring Seal
JL3Z-9424-B	If Needed	Lower Intake Manifold
BL3Z-8A586-G	If Needed	Thermostat Housing
7T4Z-8590-A	If Needed	O-ring Seal
AT4Z-9H486-A	If Needed	Upper Intake Manifold Gasket

If Needed indicates the part is not mandatory.

**Warranty Status:** Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/SPW/SSP/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

**Labor Times**

Description	Operation	Time
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	No.	
2015-2019 Transit 3.7L: Inspect And Install Immersion Block Heater Kit, Includes Time To Replace The Thermostat Housing And/Or Gasket As Necessary (Do Not Use With Any Other Labor Operations)	212408A	2.3 Hrs.
2015-2019 Transit 3.7L: Inspect And Install Immersion Block Heater Kit, Includes Time To Replace The Thermostat Housing And/Or Gasket And Intake Manifold Tube As Necessary (Do Not Use With Any Other Labor Operations)	212408B	3.3 Hrs.

### Repair/Claim Coding

Causal Part:	9J447
Condition Code:	D8

### Service Procedure

1. Remove the existing cooling system block heater and wire harness from the thermostat housing. Refer to Workshop Manual (WSM), Section 303-03A.
2. Remove the thermostat housing. Refer to WSM, Section 303-03A.
3. Inspect the thermostat housing, thermostat housing O-ring seal, and intake manifold tube for damage and replace as necessary. Refer to WSM, Section 303-03A.
4. Install the immersion block heater and harness kit. Refer to the instruction sheet included in the kit.
5. Fill and bleed the cooling system. Refer to WSM, Section 303-03A, General Procedures, Engine Cooling System Draining, Vacuum Filling and Bleeding.

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