

Technical Service Bulletin (TSB) Cylinder Head Screw Not Specific

REFERENCE:	TSB: 09-014-23 GROUP 09 - Engine	Date:	August 29, 2023	REVISION:	–
VEHICLES AFFECTED:	2023 (B1) Jeep Renegade 2023 (M1) Jeep Compass This bulletin applies to: • B1 vehicles built on or after May 15, 2023 (MDH 0515XX) on or before July 17, 2023 (MDH 0717XX) and • M1 vehicles built on or after May 15, 2023 (MDH 0515XX) on or before July 13, 2023 (MDH 0713XX) Equipped with a 1.3 I4 Turbo MAIR DI Engine W/ESS (Sales Code EYJ).			MARKET APPLICABILITY: ☐ NA☐ MEA ☒ SA☐ IAP ☐ EE☐ CH	
CUSTOMER SYMPTOM:	Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find that the following Diagnostic Trouble Code (DTC) has been set: • P1212 - Engine Oil Temperature High - RPM Limited. Customers may also experience the following: • Engine overheating.				
CAUSE:	Incorrect cylinder head-to-block fasteners.				

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 23-250, date of issue August 29, 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 inspecting and if necessary replacing the cylinder head-to-block fasteners.

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
09-35-03-34	Cylinder Head Fasteners-Inspect (0 - Introduction)	1 - Engine Repair and Performance	1.7 Hrs.
09-35-03-35	Cylinder Head Fasteners-Inspect And Replace (B1 Only) (0 - Introduction)	1 - Engine Repair and Performance	7.0 Hrs.
09-35-03-36	Cylinder Head Fasteners-Inspect And Replace (M1 Only) (0 - Introduction)	1 - Engine Repair and Performance	6.2 Hrs.
09-35-03-37	Cylinder Head Fasteners-Inspect And Replace Cyl-inder Head Gasket (B1 Only) (0 - Introduction)	1 - Engine Repair and Performance	11.6 Hrs.

Labor Operation No:	Labor Description	Skill Category	Labor Time
09-35-03-38	Cylinder Head Fasteners-Inspect And Replace Cylinder Head Gasket (M1 Only) (0 - Introduction)	1 - Engine Repair and Performance	11.3 Hrs.
Failure Code	ZZ	Service Action	

SPARE PARTS:

10 (AR)	7095273 SA 68667842AA MOPAR	Cylinder Head Screw	Use quantity necessary only.
1 (AR)	7095301 SA 68667844AA MOPAR	Cylinder Head Gasket	
1 (AR)	7095304 SA 68667843AA MOPAR	Multiair Gasket	
1 (AR)	46347605 SA 68576846AA MOPAR	Engine Oil Filter	
48 (AR)	7092779 SA 68608372AA MOPAR	Motor oil Mopar MaxPro 0W30	Reimbursement for each 100 ml / 0.1 qt.
66 (AR)	7092803 SA 68626281AA MOPAR	Mopar Antifreeze Coolant OAT 50/50 Pre-diluted	(Reimbursement for each 100 ml / 0.1 qt.)
14 (AR)	7092691 SA 68626280AA MOPAR	RTV Loctite Ultrablack 598	(Reimbursement for each 5 grams / 0.2 oz.)

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 ones listed above 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 Inspection Procedure. **This RSU only applies to vehicles on the RSU VIN list.**

1. Bring vehicle into workspace.
2. Using wiTECH check if DTC P1212 is set in the Powertrain Control Module (PCM).
3. Is DTC P1212 stored, active or present?

- YES>>> Proceed to [Step 1](#) of the Repair Procedure.
 - NO>>> Proceed to [Step 4](#).
4. Remove the MultiAir module. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: 09 - Engine, 1.3L I4 16V MultiAir Turbo / Cylinder Head / Assembly, Variable Valve Actuation / Removal and Installation.
 5. Verify if the head fastening screws have the correct vendor markings: ([Fig. 1](#)) .



Fig. 1
Correct Head fastener



Fig. 2
Incorrect Head Fastener

NOTE: Incorrect vendor markings: ([Fig. 2](#))

6. If there are no markings on the screws ([Fig. 2](#)) , and it is an **unsold** vehicle, proceed to [Step 10](#) of the Inspection Procedure. But if it is a **sold** vehicle, proceed to [Step 1](#) of the Repair Procedure.
7. If there are markings on the screws, proceed to [Step 8](#).

8. Install the Multiair module. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: 09 - Engine, 1.3L I4 16V MultiAir Turbo / Cylinder Head / Assembly, Variable Valve Actuation / Removal and Installation.
9. Remove the vehicle from the workplace and release the vehicle for delivery to the customer. Use Inspection LOP (09-35-03-34) to close this active RSU.
10. **FOR UNSOLD VEHICLES:**

NOTE: Take photos of the anomalous screw(s) mounted on the head before removing. These photos need to be send by email to maruzan.junior@stellantis.com with the information of the vehicle's VIN number, the number of screws to be replaced, the Scan Report and photos of the screws.

11. Remove the camshaft. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: 09 - Engine, 1.3L I4 16V MultiAir Turbo / Cylinder Head / Camshaft, Engine / Removal and Installation.
12. Replace the incorrect screw(s) with the correct screws.

NOTE: Be sure only to remove and replace ONE screw at a time.

13. Loosen the screws in three turns.
14. Retighten the head screws by following this three-step method (torque plus angle) in the sequence shown (Fig. 3) .

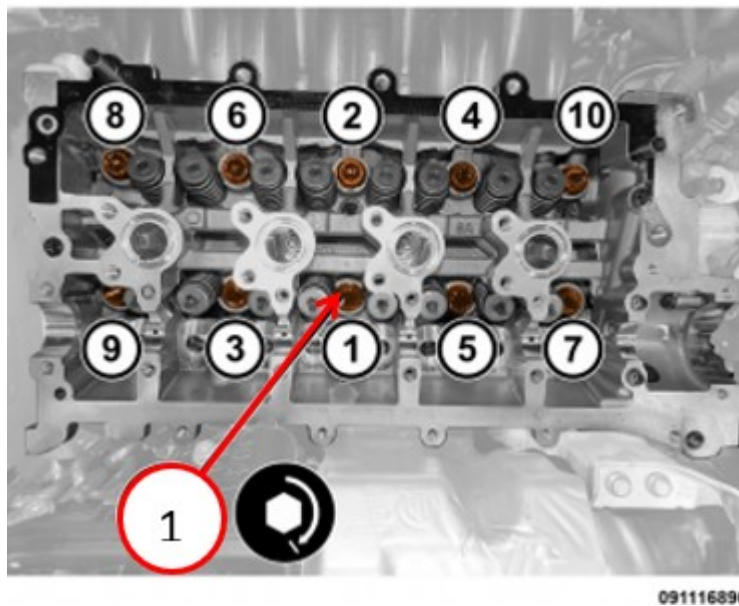


Fig. 3
Torque Sequence

15. Tighten all to 30 N.m (22 ft. lbs.).
16. Using a power wrench. Tighten all an additional 90° turn.
17. Repeat tighten all an additional 90° turn.
18. Install the camshaft. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: 09 - Engine, 1.3L I4 16V MultiAir Turbo / Cylinder Head / Camshaft, Engine / Removal and Installation.
19. Install the Multiair module. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: 09 - Engine, 1.3L I4 16V MultiAir Turbo / Cylinder Head / Assembly, Variable Valve Actuation / Removal and Installation.

SPECIAL TOOLS/EQUIPMENT:

Description	Ref. No.	Notes
wiTECH or Equivalent	—	—

REPAIR PROCEDURE:

1. Remove the cylinder head. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: 09 - Engine, 1.3L I4 16V MultiAir Turbo / Cylinder Head / Removal and Installation.
2. Check the condition of the spark plugs and inspect if the coolant is contaminated with oil.

NOTE: In the case of spark plug problem, request the part using the parts catalog (ePER) and request as campaign complement using the warranty chanel A10.

3. Replace the cylinder head gasket and screws of the head and install the cylinder head. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: 09 - Engine, 1.3L I4 16V MultiAir Turbo / Cylinder Head / Removal and Installation.
4. Replace the engine oil, oil filter and engine coolant.
5. After assembly, perform a cylinder compression test and a cooling system pressure test.
6. Using wiTECH, clear any DTCs which may have been set during the Repair Procedure.
7. Remove the vehicle from the workplace and release the vehicle for delivery to the customer.

POLICY:

Reimbursable within the provisions of the warranty.

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