

BULLETIN NUMBER:

IB12-J-004B

ISSUE DATE:

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GROUP:

ENGINE

EGR Cooler Stress Crack - Service Procedure Reminder

AFFECTED VEHICLES

2007 - 2010 Chevrolet or GMC W3500/W4500/W5500
 2007 - 2015 Isuzu NPR/NPRHD/NQR/NRR
 2007 Chevrolet or GMC C6500/C7500/C8500
 2007 Chevrolet or GMC T6500/T7500/T8500
 2007 Isuzu FTR/FVR/FXR
 2007 Isuzu HTR/HVR/HXR

SERVICE INFORMATION

AFFECTED VEHICLES

- 2007-2015MY N/W-Series
Equipped with 5.2L 4HK1 and DPF
- 2007-2009MY F/T/C/H Series
Equipped with 7.8L 6HK1 and DPF

This bulletin supersedes IB12-J-004A. This bulletin is being revised to update Model Years. Please discard bulletin IB12-J-004A.

INFORMATION

Some customers may experience exhaust leaks, loss of coolant or overheating condition after a recent repair to one or both EGR Coolers. Isuzu investigation of returned EGR Coolers has found that the service replacement part installed was cracked at the mounting flange area as a result of excessive stress. This stress was found to be created by the improper torquing sequence and torque amount during the repair.



Cracked EGR Cooler from 7.8L 6HK1

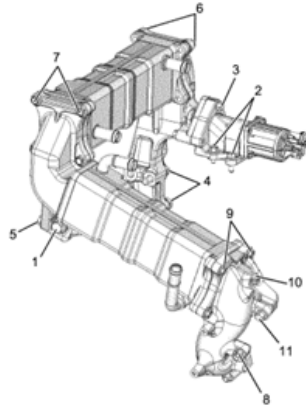
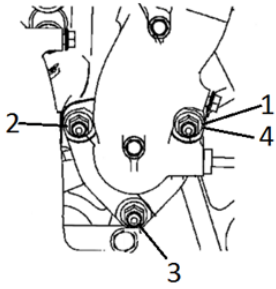
Isuzu would like to remind dealers how important it is to follow the torquing instructions in the service manual when replacing one or both EGR Coolers. To better assist technicians this bulletin is provided to show all the bolts necessary to loosen and torque when replacing one or both EGR Coolers.

Note: Whenever the EGR cooler is removed, new EGR cooler mounting gaskets must be installed.

IMPORTANT: Follow the "EGR Cooler Replacement" procedure in the service manual. Not following the service manual torque procedure will result in EGR Cooler cracking.

SERVICE PROCEDURE

When replacing one or both EGR coolers, loosen all of the EGR-related bolts, including the side that is not being replaced. Follow the 2-step process, temporarily tighten then final torque in the sequence below, for proper installation. See the service manual for additional information.



LNW71FMH000101

5.2L 4HK1 (2007-2010MY)

Step One
Tighten and torque in the following sequence:

- 1. Hand tighten
- 2. Hand tighten
- 3. Hand tighten
- 4. Hand tighten
- 1. 35 Nm (26 lb ft)
- 2. 35 Nm (26 lb ft)
- 3. 35 Nm (26 lb ft)
- 4. 35 Nm (26 lb ft)

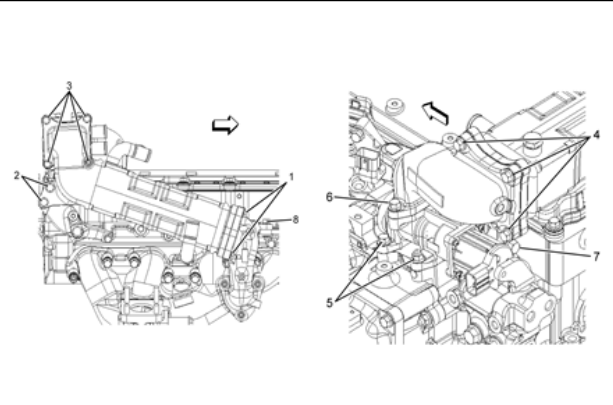
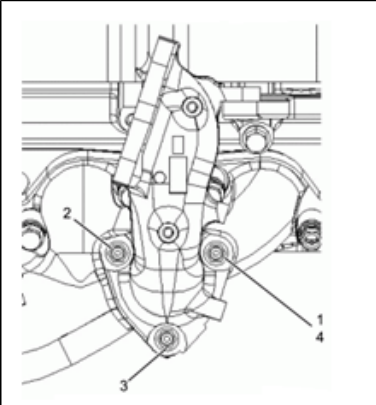
5.2L 4HK1 (2007-2010MY)
Step Two
Torque in the following sequence:

Temporary Tightening

- 1. 4 Nm (35 lb in)
- 2. 4 Nm (35 lb in)
- 3. 4 Nm (35 lb in)
- 4. 4 Nm (35 lb in)
- 5. 4 Nm (35 lb in)
- 6. 4 Nm (35 lb in)
- 7. 4 Nm (35 lb in)
- 8. Hand tighten
- 9. Hand tighten
- 10. Hand tighten
- 11. Hand tighten

Final Tightening

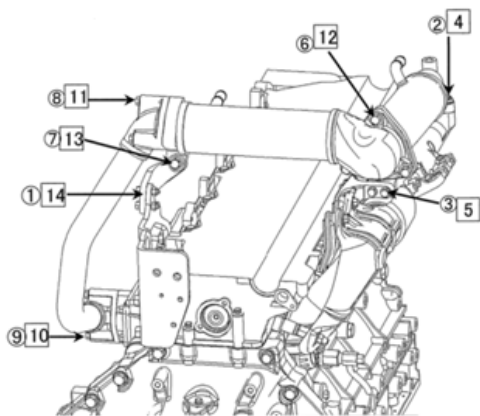
- 1. 104 Nm (77 lb ft)
- 2. 24 Nm (17 lb ft)
- 3. 24 Nm (17 lb ft)
- 4. 104 Nm (77 lb ft)
- 5. 40 Nm (30 lb ft)
- 6. 28 Nm (21 lb ft)
- 7. 28 Nm (21 lb ft)
- 8. 35 Nm (26 lb ft)
- 9. 28 Nm (21 lb ft)
- 10. 40 Nm (30 lb ft)
- 11. 35 Nm (26 lb ft)



5.2L 4HK1 (2011-13MY)
 Step Two
 Torque in the following sequence:
 Temporary Tightening
 1. Hand tighten
 2. Hand tighten
 3. Hand tighten
 4. 4 Nm (35 lb in)
 5. 4 Nm (35 lb in)
 6. 4 Nm (35 lb in)
 7. 4 Nm (35 lb in)
 8. Hand tighten

Final Tightening
 1. 28.4 Nm (21 lb ft)
 2. 40.3 Nm (29.7 lb ft)
 3. 28.4 Nm (21 lb ft)
 4. 28.4 Nm (21 lb ft)
 5. 23.5 Nm (17.3 lb ft)
 6. 23.5 Nm (17.3 lb ft)
 7. 40.3 Nm (29.7 lb ft)
 8. 40.3 Nm (29.7 lb ft)

5.2L 4HK1 (2011-13MY)
 Step One
 Tighten and torque in the following sequence:
 1. Hand tighten
 2. Hand tighten
 3. Hand tighten
 4. Hand tighten
 1. 35 Nm (26 lb ft)
 2. 35 Nm (26 lb ft)
 3. 35 Nm (26 lb ft)
 4. 35 Nm (26 lb ft)



7.8L 6HK1
 Torque in the following sequence:
 1. Hand tighten
 2. Hand tighten
 3. Hand tighten
 4. Front EGR Cooler to manifold bolts to 40 Nm (30 lb ft)
 5. Front Cooler mounting bolt to 25 Nm (18 lb ft)
 6. Hand tighten
 7. Hand tighten
 8. Hand tighten
 9. Hand tighten
 10. Lower EGR Cooler bolts to 25 Nm (18 lb ft)
 11. Lower EGR Cooler to rear EGR cooler bolts to 25 Nm (18 lb ft)
 12. Front EGR Cooler to rear EGR Cooler bolts to 46 Nm (34 lb ft)
 13. Lower EGR Cooler to rear EGR Cooler bolts to 46 Nm (34 lb ft)
 14. Cooler bracket to rear bracket bolt to 25 Nm (18 lb ft)