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Title: S13 New Power Steering Tube Support Brackets

Applies To: All S13 Engines

CHANGE LOG

06/06/2025 - Initial Article Release

DESCRIPTION

This document will guide the user through installation of the new power steering tube support brackets on S13 equipped vehicles.

The new brackets are released to help prevent the aluminum intake manifold mounting boss from potentially failing.



Figure #1: Failed mounting boss

Figure #2: Failed mounting boss

Customer Observations or Concerns:

The customer may hear a light rattling noise under the hood occasionally, or possible power steering tube leaks, or the power steering tubes may be found loose or not supported when general engine inspections are performed.

SERVICE PARTS INFORMATION

Description	Part Number	Quantity	Notes
Bracket Assembly, Power Steering	7103958C2	1	HV/HX
Bracket Assembly, Power Steering	7102992C3	1	LT/RH
Bolt, Stud	7104752C1	1	All Chassis
Locknut, Flanged M8	40066R1	1	All Chassis
Support, Isolator Rubber	3805697C1	1	LT / RH
Support, Bracket Isolator Lower	3805698C1	1	LT / RH
Bracket, Upper Isolator	3805699C1	1	LT / RH
Bolt, M6 x 25	3607293C1	1	LT / RH
Tube, Power Steering	7102694C3	1	RH HP PS Tube
Tube, Power Steering	7102970C3	1	LT HP PS Tube

REPAIR STEP(s)

WARNING! To prevent property damage, personal injury, and / or death, park vehicle on a hard, flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.

WARNING! To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

WARNING! To prevent property damage, personal injury, and / or death, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

REMOVAL PROCEDURE:

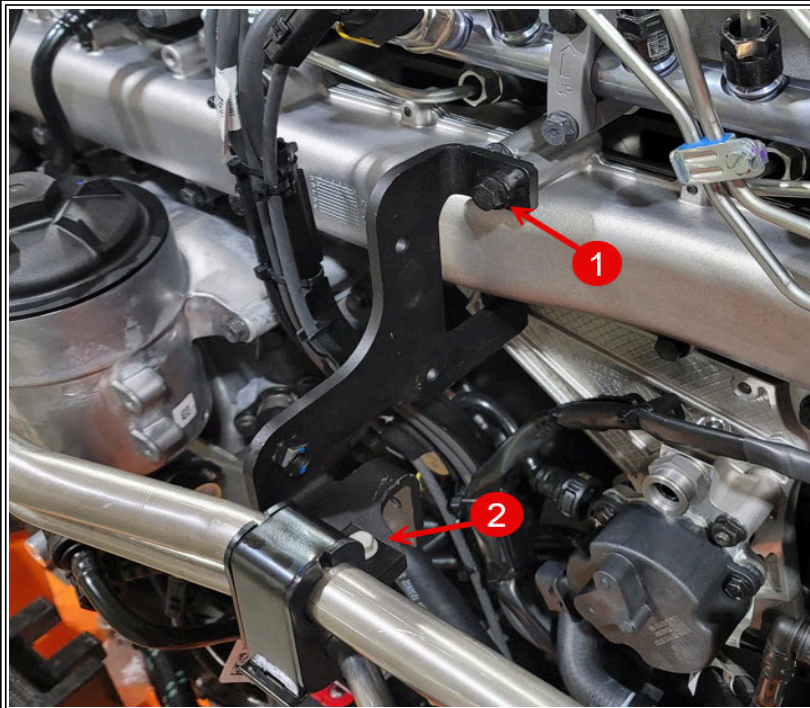


Figure #3: Original bracket removal

Item 1: Bracket mounting bolt at intake manifold
Item 2: Steering tube isolator mounting bolt

1. Remove the steering tube isolator mounting bolt (Figure #3 item 2) from the bracket and set aside.
2. Remove the bracket mounting bolt (Figure #3 item 1) from the intake manifold, discard the bolt and bracket

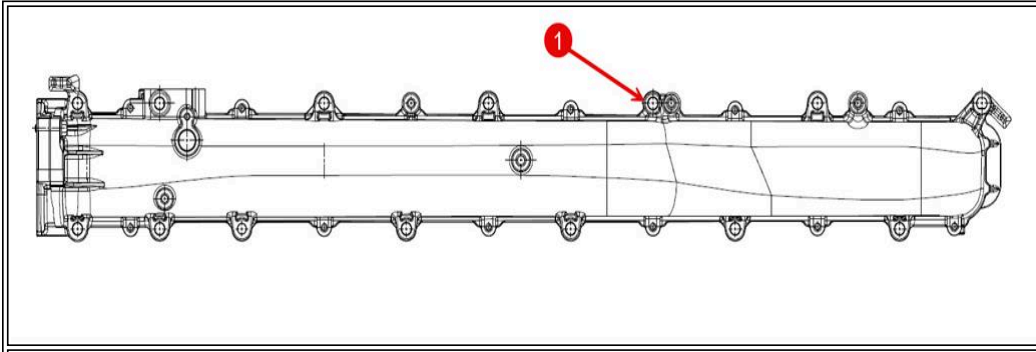


Figure #4: Intake Manifold

Item 1: Top manifold mounting bolt location #4 cylinder

3. Remove the top intake manifold mounting bolt at #4 cylinder (Figure #4 Item 1) and discard
4. Install the new 7104752C1 stud bolt in place of the bolt just removed in step 3, and torque to 23 +/- 10% Nm

HV / HX CHASSIS INSTALLATION PROCEDURE:

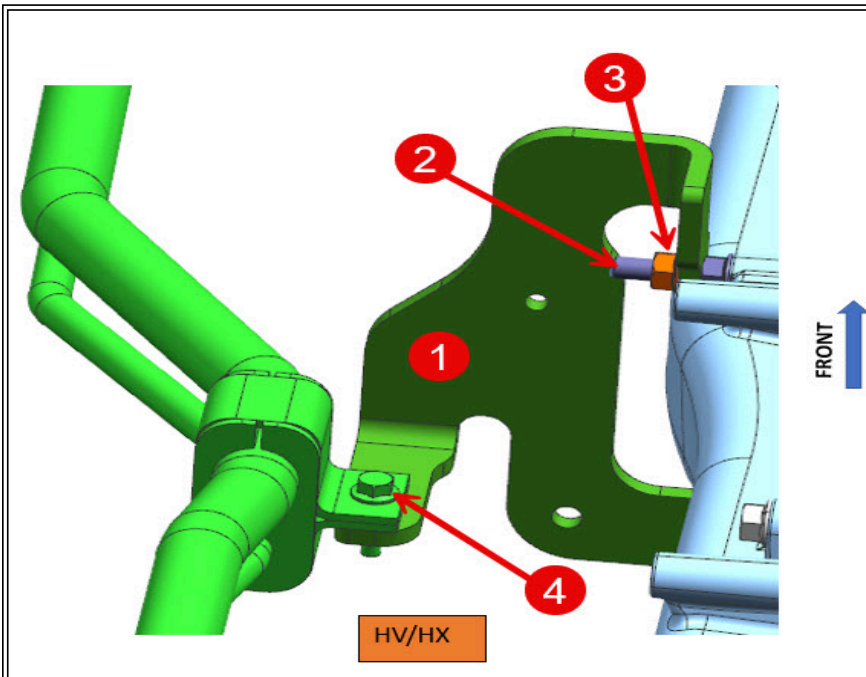


Figure #5: New bracket for HV / HX Chassis

Item 1: New 7103958C2 Bracket
 Item 2: New 7104752C1 Stud Bolt
 Item 3: New 40066R1 M8 Flanged Locknut
 Item 4: Isolator Mounting Bolt M6 x 25

5. Install the new 7103958C2 bracket (Figure #5 Item 1) over the 7104752C1 stud bolt (Figure #5 Item 2). Install the new 40066R1 flanged locknut (Figure #5 Item 3) on the stud and torque to 31 +/- 3 Nm.
6. Install the M6 Isolator mounting bolt (Figure #5 Item 4) and torque to 13 +/- 0.7 Nm

LT / RH CHASSIS INSTALLATION PROCEDURE:

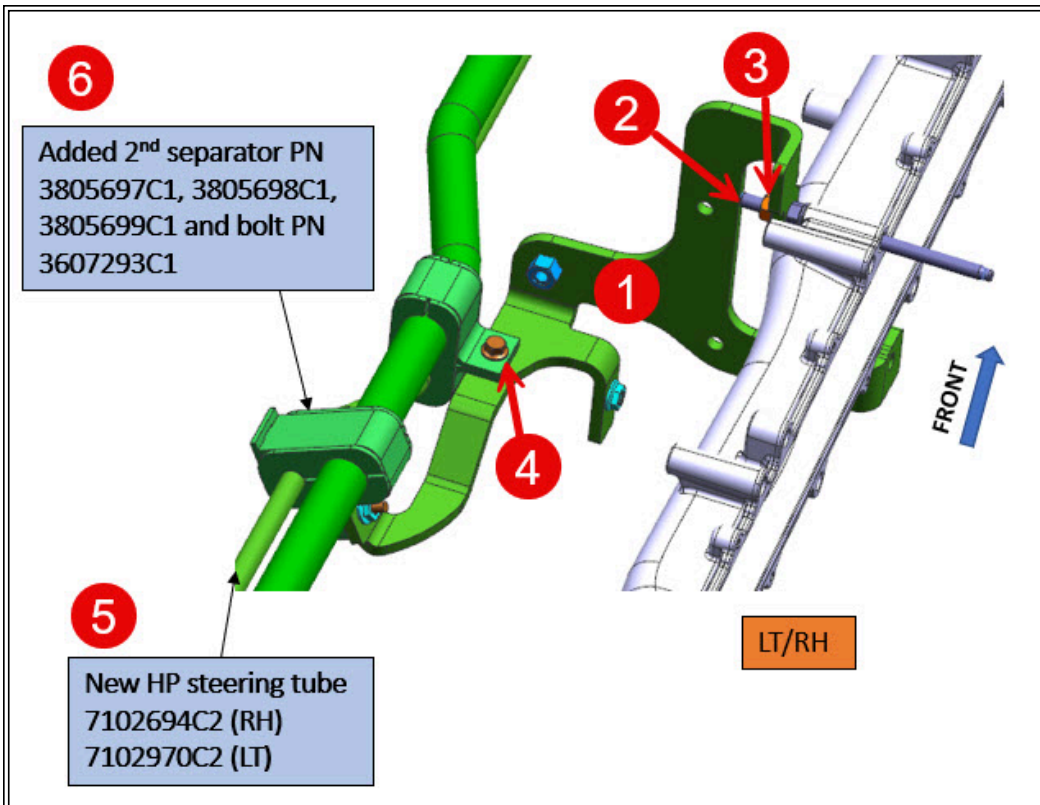


Figure #6: New LT / RH Support Bracket

- Item 1: New 7102992C3 Bracket
- Item 2: New 7104752C1 Stud Bolt
- Item 3: New 40066R1 M8 Flanged Locknut
- Item 4: Isolator Mounting Bolt M6 x 25
- Item 5: New HP Power Steering Tube for LT or RH
- Item 6: New Secondary Steering Tube Isolator Assembly

7. Install the new 7102992C3 bracket (Figure #6 Item 1) over the 7104752C1 stud bolt (Figure #6 Item 2). Install the new 40066R1 flanged locknut (Figure #6 Item 3) on the stud and torque to 31 +/- 3 Nm.
8. Install the M6 Isolator mounting bolt (Figure #6 Item 4) and torque to 13 +/- 0.7 Nm
9. Remove and discard the current high pressure power steering tube.
10. Install the new high pressure power steering tube called out in Figure# 6 Item 5, select which tube is needed by chassis type but DO NOT torque yet.
11. Assemble the new secondary isolator (Figure #6 Item 6) and install to the new bracket using the 3607293C1 M6 isolator mounting bolt. Torque the bolt to 13 +/- 0.7 Nm.
12. Torque the new high pressure steering tube fitting at the power steering pump to 62 Nm (46 ft./lb.).
13. Connect the hose at the front of the new high pressure steering tube and torque the fitting.
14. Check power steering fluid level and top off if needed.

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

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