

2010 Saturn Outlook XE

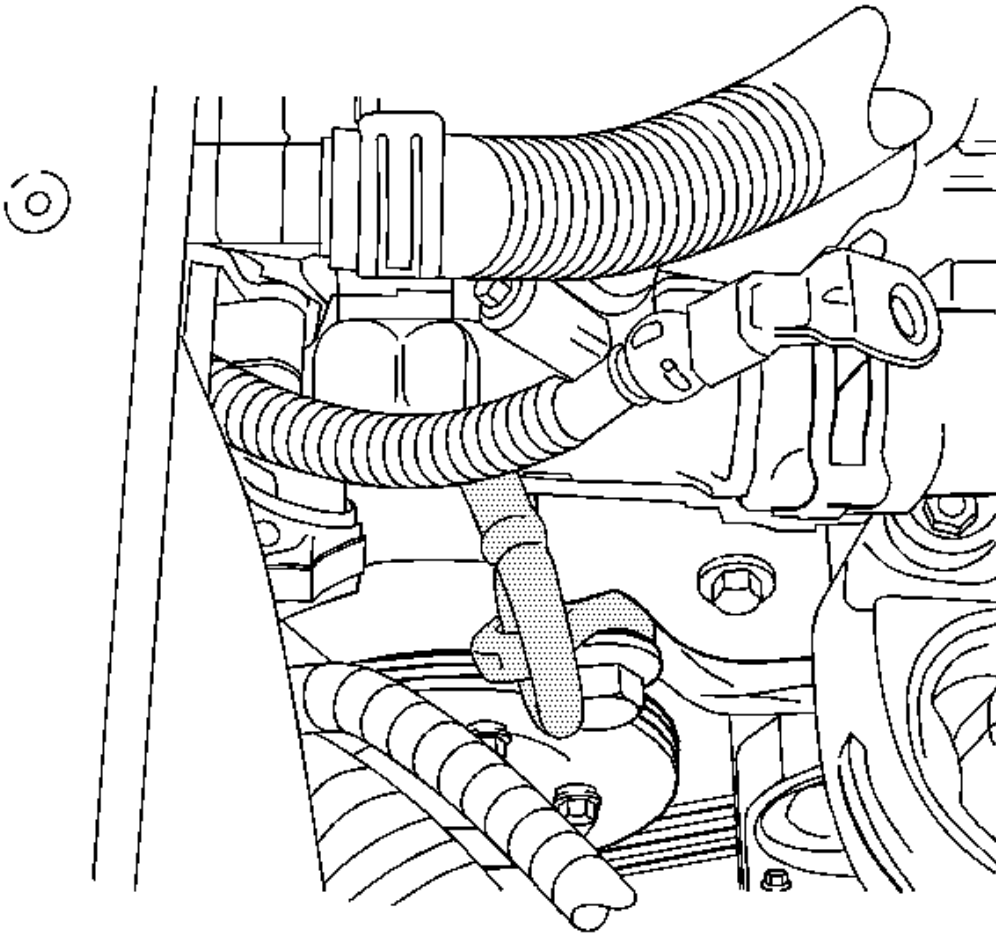
2010 ENGINE Engine Mechanical - 2.8L, 3.0L, 3.2L, or 3.6L - Repair Instructions - On Vehicle - Acadia, Enclave, Outlook & Traverse

ENGINE SUPPORT FIXTURE

SPECIAL TOOLS

- **J 28467-B** Universal Engine Support Fixture. See **Special Tools** .
- **J 28467-7A** Bolt Hook. See **Special Tools** .
- **J 28467-34** Lift Hook Wing Nut and Washer. See **Special Tools** .
- **J-41803-9** Engine Lift Hook
- **J 42451-1** Engine Support Adapter

INSTALLATION PROCEDURE



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Fig. 4: Identifying Special Tool - J 42451-1
Courtesy of GENERAL MOTORS CORP.

1. Remove the injector sight shield. Refer to **Fuel Injector Sight Shield Replacement**.
2. Remove the underhood electrical center. Refer to **Underhood Electrical Center or Junction Block Replacement**.
3. Remove the right engine strut mount. Refer to **Engine Mount Strut Replacement - Right Side**.
4. Install the **J 42451-1** to the right side of the engine.
5. Remove the Mass air flow sensor. Refer to **Mass Airflow Sensor with Intake Air Temperature Sensor Replacement**

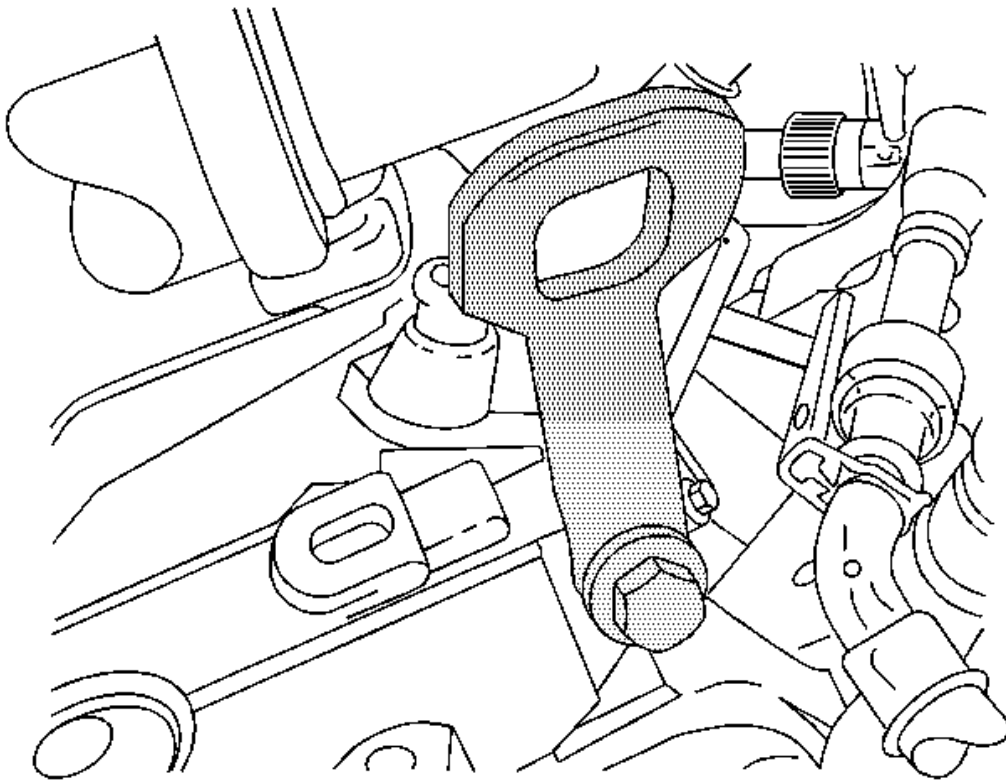


Fig. 5: Identifying Special Tool - J-41803-9
Courtesy of GENERAL MOTORS CORP.

6. Install the **J-41803-9** to the left side front of the engine.

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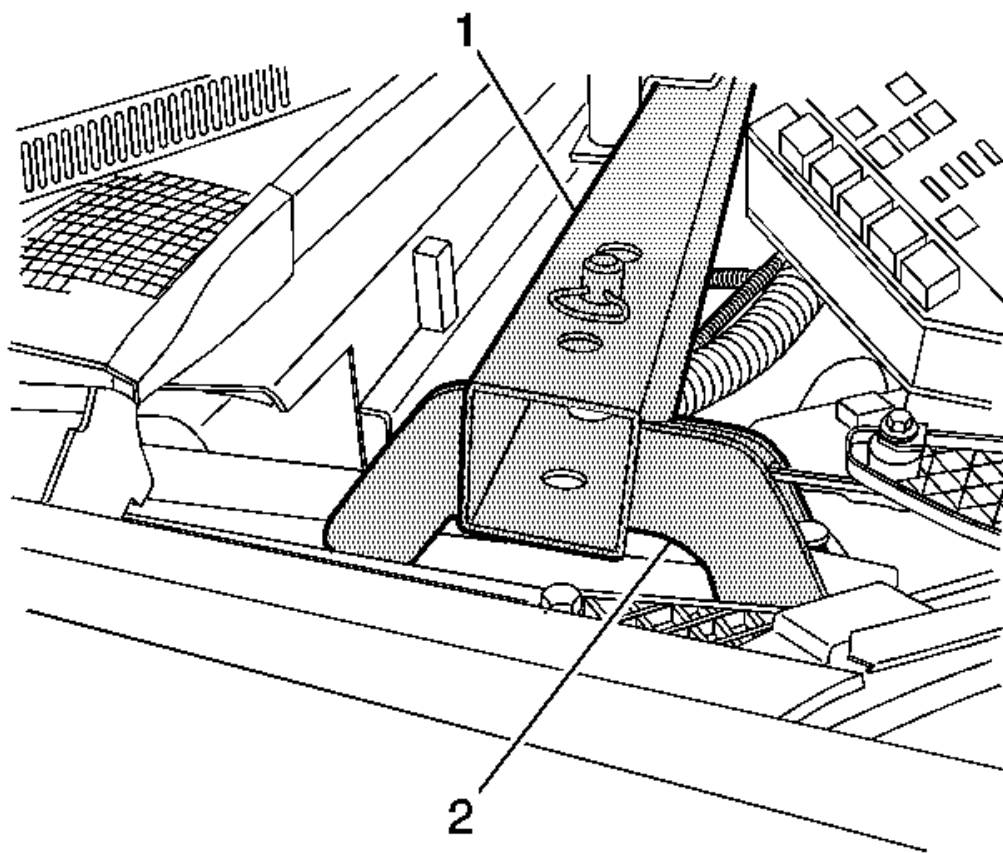


Fig. 6: Identifying Special Tools - J 28467-3 & J 43405
Courtesy of GENERAL MOTORS CORP.

7. Using **J 28467-B** , install the ends of the strut tower tube J 28467-518 (1) to the engine support adapter legs (P/N) 48059 (2). See **Special Tools** .

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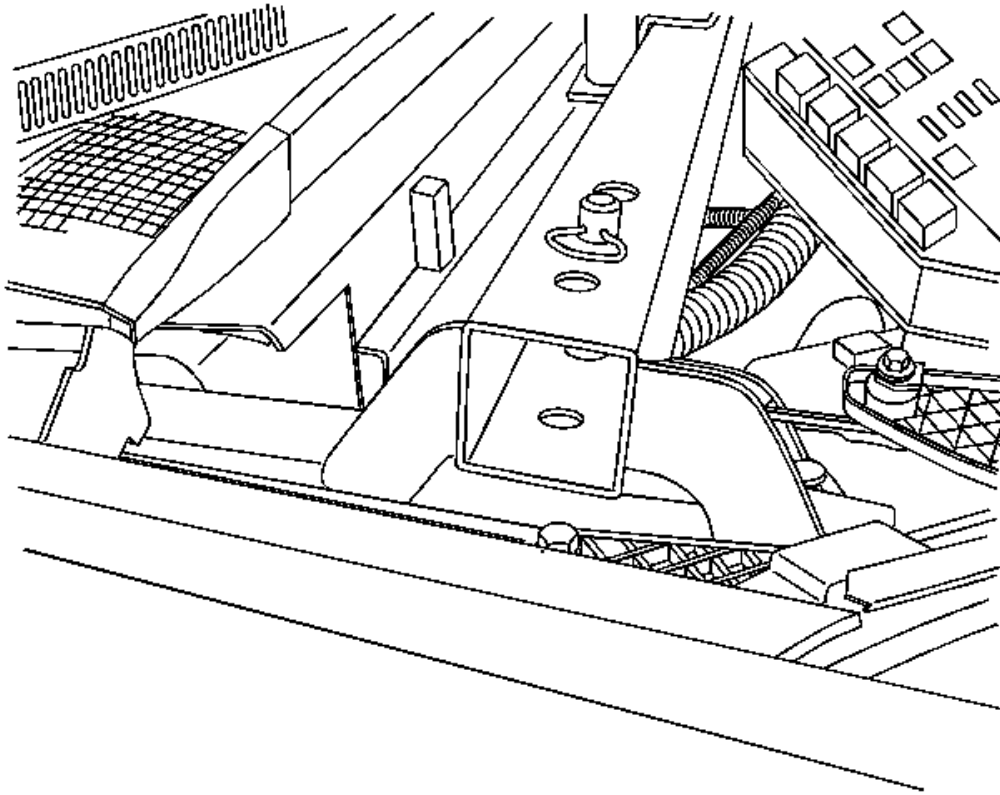


Fig. 7: Identifying Special Tools - J 28467-3 & J-48059
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8. Place the strut tower tube J 28467-518 and the (P/N) 48059 on top of both the left and right fender lips, over the engine rear lift bracket.

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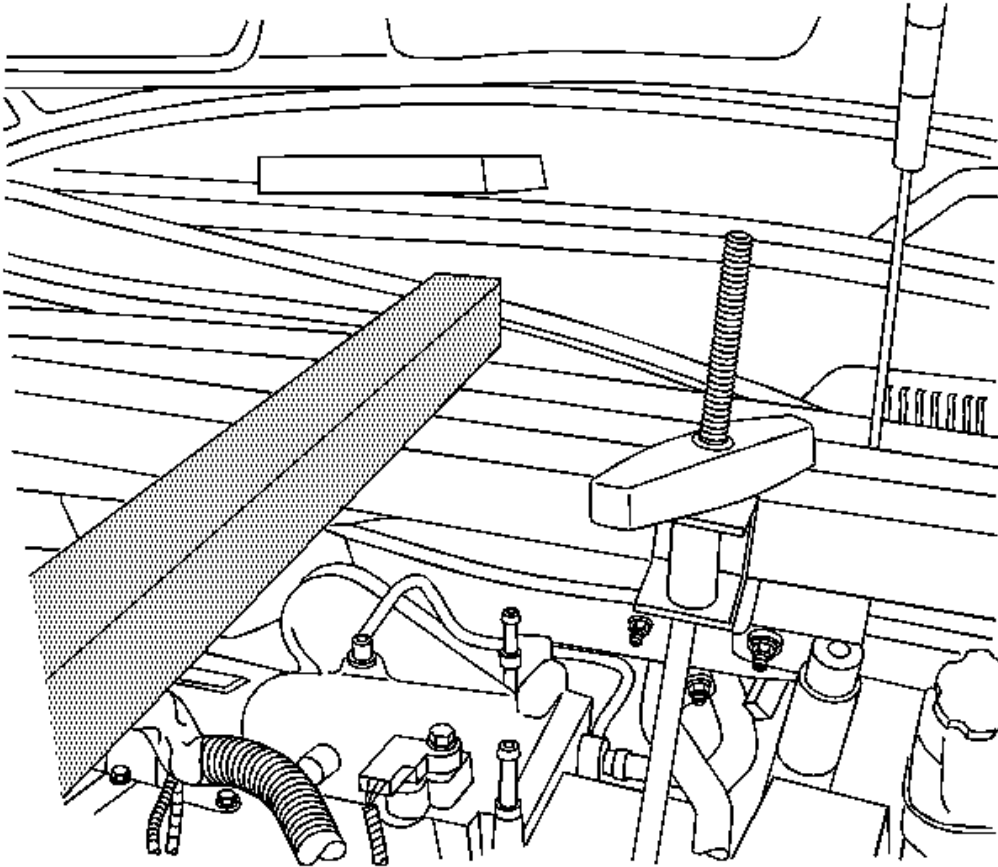


Fig. 8: Identifying Special Tools - J 36462-1A & J 28467-51
Courtesy of GENERAL MOTORS CORP.

9. Install the radiator shelf tube J 36462-1A (2) on top of the strut tower tube J 28467-518 (1) above the left side of the engine.

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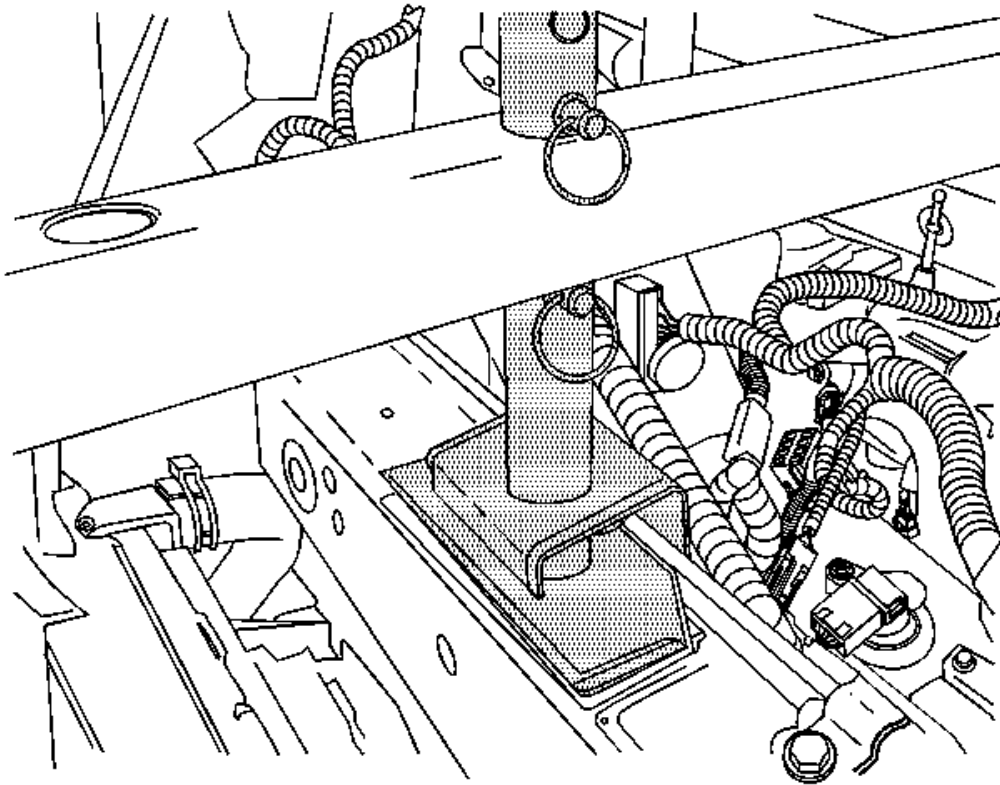


Fig. 9: Identifying Special Tools - J 28467-4A & J 36462-1A
Courtesy of GENERAL MOTORS CORP.

10. Install the round tube of the front support assembly J 28467-4A through the large hole in the radiator shelf tube J 36462-1A.
11. Remove the upper tie bar cover.
12. Locate the J 28467-4A front support assembly to the upper tie bar.
13. Install the J 28467-9 quick-release pin through the bottom hole in the J 28467-4A front support assembly.
14. Install the J 28467-9 quick-release pin through the hole above the J-36462-1A radiator shelf tube.

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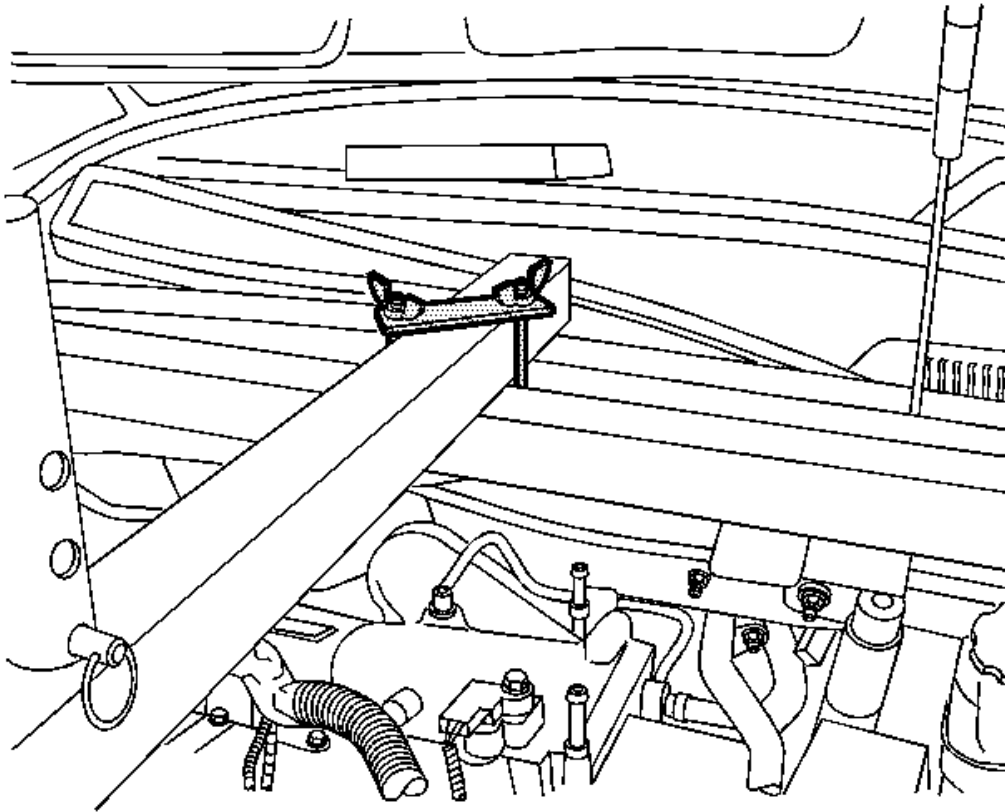


Fig. 10: Identifying Special Tools - J 28467-1A
Courtesy of GENERAL MOTORS CORP.

15. Install the J 28467-1A cross bracket assembly.
16. Hand tighten the J 28467-1A cross bracket wing nuts.