2004.50 S-TYPE (X200), 310-01

FUEL TANK AND LINES

FUEL PUMP MODULE - 2.5L NA V6 - AJV6/3.0L NA V6 - AJ27/V8 4.2L PETROL/V8 S/C 4.2L PETROL, VIN RANGE: M45255->N52047 (G205530)

REMOVAL AND INSTALLATION

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SPECIAL TOOL(S)

310-146
Remover/Installer, Fuel Pump Module/Fuel Transfer Pump Locking Ring
WARNINGS:

- Place the vehicle in a quarantined area and arrange "No Smoking/Petrol Fumes" signs about the vehicle.
- Before any work is carried out on the fuel system, ground the vehicle to earth and maintain the ground connection until the work is complete.
- Do not smoke or carry lighted tobacco or open flame of any type when working on or near any fuel related components. Highly flammable vapors are always present and may ignite. Failure to follow these instructions may result in personal injury.
- The fuel system remains pressurized for a long time after the ignition is switched off. The fuel pressure must be relieved before attempting any repairs. Failure to follow these instructions may result in personal injury.
- After carrying out repairs, the fuel system must be checked visually for leaks. Failure to follow these instructions may result in personal injury.
- This procedure involves fuel handling. Be prepared for fuel spillage at all times and always observe fuel handling precautions. Failure to follow these instructions may result in personal injury.
- If taken internally do not induce vomiting, seek immediate medical attention. Failure to follow these instructions may result in personal injury.
- If fuel contacts the eyes, flush the eyes with cold water or eyewash solution and seek medical attention.
- Wash hands thoroughly after handling, as prolonged contact may cause irritation. Should irritation develop, seek medical attention.
NOTES:

- For vehicles with worm drive clamp, refer to steps 14 and 24.
- For vehicles with fuel pump locking ring, refer to steps 15 and 25.

Open the fuel tank filler pipe flap.

2. Disconnect the battery ground cable.

3. Detach the fuel tank filler pipe cap.

4. Release the pressure in the fuel system.
   For additional information, refer to: Fuel System Pressure Release (310-00 Fuel System - General Information, General Procedures).

5. Remove the rear seat cushion.
   For additional information, refer to: Rear Seat Cushion (501-10 Seating, Removal and Installation).

6. Detach and reposition the door opening weatherstrip.
Remove the scuff plate trim panel.

Detach and reposition the floor covering.

Detach and reposition the rear seat cushion insulation.
Remove the floor aperture cover.

Disconnect the fuel pump module quick release coupling.

Detach the fuel pump module electrical connector from the retaining bracket.
Disconnect the fuel pump module electrical connector.

14. **NOTE:**

For vehicles with worm drive clamp.

Remove and discard the fuel pump module worm drive clamp.

Remove and discard the O-ring seal.

15. **NOTE:**

For vehicles with fuel pump locking ring.
Using the special tool, remove the fuel transfer unit locking ring.

**NOTE:**

All vehicles.

Detach and reposition the upper part of the fuel pump module.
Detach and reposition the left-hand rear door opening weatherstrip.

Remove the scuff plate trim panel.
19. Detach and reposition the floor covering.

20. Detach and reposition the rear seat cushion insulation.

21. Remove the floor aperture cover.
Detach the fuel transfer pump module electrical connector from the retaining bracket.

Disconnect the fuel transfer pump electrical connector.

**NOTE:**

For vehicles with worm drive clamp.
Remove and discard the fuel transfer unit worm drive clamp.

**NOTE:**

For vehicles with fuel pump locking ring.

Using the special tool, remove the fuel transfer unit locking ring.

**NOTE:**

All vehicles.
Detach and reposition the upper part of the fuel transfer pump.

**CAUTION:**

Make sure no damage occurs to the fuel level float.

Remove the fuel transfer pump.

Disconnect the fuel cross over lines.

28. Remove and discard the fuel transfer pump module gasket.

29. Remove the fuel pump module.

Remove and discard the fuel pump module gasket.

**INSTALLATION**
WARNINGS:

- Place the vehicle in a quarantined area and arrange "No Smoking/Petrol Fumes" signs about the vehicle.

- Before any work is carried out on the fuel system, ground the vehicle to earth and maintain the ground connection until the work is complete.

- Do not smoke or carry lighted tobacco or open flame of any type when working on or near any fuel related components. Highly flammable vapors are always present and may ignite. Failure to follow these instructions may result in personal injury.

- The fuel system remains pressurized for a long time after the ignition is switched off. The fuel pressure must be relieved before attempting any repairs. Failure to follow these instructions may result in personal injury.

- After carrying out repairs, the fuel system must be checked visually for leaks. Failure to follow these instructions may result in personal injury.

- This procedure involves fuel handling. Be prepared for fuel spillage at all times and always observe fuel handling precautions. Failure to follow these instructions may result in personal injury.

- If taken internally do not induce vomiting, seek immediate medical attention. Failure to follow these instructions may result in personal injury.

- If fuel contacts the eyes, flush the eyes with cold water or eyewash solution and seek medical attention.

- Wash hands thoroughly after handling, as prolonged contact may cause irritation. Should irritation develop, seek medical attention.
NOTES:

- For vehicles with fuel pump locking ring, refer to steps 2 and 13.
- For vehicles with worm drive clamp, refer to steps 3 and 14.

CAUTIONS:

- On vehicles with supercharger make sure the arrow on the fuel pump module and the 'SC' marker on the fuel tank are aligned.
- On vehicles without supercharger make sure the arrow on the fuel transfer module and the 'NA' marker on the fuel tank are aligned.
- Make sure no damage occurs to the fuel level float.

NOTES:

- Install a new gasket to the fuel pump module flange.
- Take care not to stretch the gasket.

Install the fuel pump module.
1. Feed the fuel cross-over lines through the fuel pump module hole and across the front of the fuel tank saddle.

2. **NOTE:**

   For vehicles with fuel pump locking ring.

   ![Image](image_url)

   Using the special tool, install the fuel transfer unit locking ring.

   Tighten to 60 Nm.

3. **CAUTION:**

   If the vehicle is fitted with a worm drive clamp which is not fitted with a shear off cap, tighten the clamp to 4Nm.

   **NOTE:**

   For vehicles with worm drive clamp.
4. **NOTE:**

All vehicles.

Connect the fuel pump module electrical connector.
Attach the fuel pump module electrical connector to the retaining bracket.

Connect the fuel pump module quick release coupling.

Make sure the quick release coupling has latched onto the fuel pump module fuel pipe by pulling the pipe after the connection has been made.
Install the floor aperture cover.

Attach the rear seat cushion insulation.
9. Attach the floor covering.

10. Install the scuff plate trim panel.

11. Attach the door opening weatherstrip.

12. **CAUTIONS:**

   - Vehicles with supercharger - make sure the arrow on the left-hand fuel pump module lines up with the 'SC' marker on the fuel tank.
- Vehicles without supercharger - make sure the arrow on the fuel transfer pump lines up with the 'NA' marker on the fuel tank.
- Make sure no damage occurs to the fuel level float.

⚠️ **NOTES:**

- Install a new gasket to the fuel transfer pump flange.
- Take care not to stretch the gasket.

Install the fuel transfer pump.

⚠️ **NOTE:**

For vehicles with fuel pump locking ring.
Using the special tool, install the fuel transfer unit locking ring.

Tighten to 60 Nm.

**CAUTION:**

If the vehicle is fitted with a worm drive clamp which is not fitted with a shear off cap, tighten the clamp to 4Nm.

**NOTE:**

For vehicles with worm drive clamp.

Install the new fuel transfer unit worm drive clamp.

Tighten the clamp until the cap shears off.

**NOTE:**
All vehicles.

Connect the fuel transfer pump electrical connector.

Attach the fuel transfer pump module electrical connector to the retaining bracket.

Install the floor aperture cover.
Attach the rear seat cushion insulation.

Attach the floor covering.

Install the scuff plate trim panel.

Install the rear seat cushion.
For additional information, refer to: Rear Seat Cushion (501-10 Seating, Removal and Installation).
22. Attach the fuel tank filler pipe cap.

23. Connect the battery ground cable.

24. Attach the door opening weatherstrip.

25. Close the fuel tank filler pipe flap.
1. Detach the center rear safety belt.

2. Detach the rear seat cushion.
   1. Release the rear seat cushion retaining clips.
   2. Detach the rear seat cushion.
Remove the rear seat cushion.

1. Guide the safety belt buckles through the rear seat cushion aperture.
2. Remove the rear seat cushion.

INSTALLATION

1. To install, reverse the removal procedure.

2004.50 S-TYPE (X200), 310-00

FUEL SYSTEM - GENERAL INFORMATION

FUEL SYSTEM PRESSURE RELEASE (G61397)

GENERAL PROCEDURES

SPECIAL TOOL(S)
1. **WARNINGS:**

- Place the vehicle in a quarantined area and arrange "No Smoking/Petrol Fumes" signs about the vehicle.
- Before any work is carried out on the fuel system, ground the vehicle to earth and maintain the ground connection until the work is complete.
- Do not smoke or carry lighted tobacco or open flame of any type when working on or near any fuel related components. Highly flammable vapors are always present and may ignite. Failure to follow these instructions may result in personal injury.
- The fuel system remains pressurized for a long time after the ignition is switched off. The fuel pressure must be relieved before attempting any repairs. Failure to follow these instructions may result in personal injury.
- After carrying out repairs, the fuel system must be checked visually for leaks. Failure to follow these instructions may result in personal injury.
- This procedure involves fuel handling. Be prepared for fuel spillage at all times and always observe fuel handling precautions. Failure to follow these instructions may result in personal injury.
- If taken internally do not induce vomiting, seek immediate medical attention. Failure to follow these instructions may result in personal injury.
- If fuel contacts the eyes, flush the eyes with cold water or eyewash solution and seek medical attention.
- Wash hands thoroughly after handling, as prolonged contact may cause irritation. Should irritation develop, seek medical attention.

Disconnect the battery ground cable.

3. **WARNING:**

Make sure the tap of the special tool is rotated fully clockwise before installing the special tool to the fuel system pressure relief valve. Failure to follow these instructions may result in personal injury.
Install the special tool to the fuel system pressure relief valve.

4. **NOTE:**

When relieving the fuel system pressure, catch any displaced fuel in a suitable container.

Relieve the fuel system pressure.

Rotate the tap of the special tool fully counterclockwise.
6. Remove the special tool from the fuel system pressure relief valve.

7. Install the fuel system pressure relief valve cap.

7. Connect the battery ground cable.