

Component Procedures: Power Steering Pump

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Component Procedures: Power Steering Pump

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Hydraulic > P/S Pump	13576570	P/s Pump	379.95	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Power Hydraulic > P/S Pump & Hoses > P/S Pump?	B	1.3	0.9

Power Steering Pump Pulley Replacement (Article 13459)

Callout Component Name

Preliminary Procedures Remove the front intake manifold cover. Refer to Intake Manifold Cover Replacement - Front . Remove the air cleaner assembly. Refer to Air Cleaner Assembly Replacement . Remove the accessory drive belt from the power steering pump pulley only. Refer to Drive Belt Replacement .

Preliminary Procedures

- Remove the front intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .
 - Remove the air cleaner assembly. Refer to Air Cleaner Assembly Replacement .
 - Remove the accessory drive belt from the power steering pump pulley only. Refer to Drive Belt Replacement .
- 1 Power Steering Pump Pulley Procedure Use the J-25034-C - Pulley Remover in order to remove the pulley. Use the J-25033-C - Pulley Installer in order to install the pulley. Tip: Ensure the axial tolerance of the pulley on the pump shaft is within 0.25 mm (0.010 in). Special Tools J-25034-C - Pulley Remover J-25033-C - Pulley Installer For equivalent regional tools, refer to Special Tools .

Procedure

- Use the J-25034-C - Pulley Remover in order to remove the pulley.
- Use the J-25033-C - Pulley Installer in order to install the pulley.

Special Tools

- J-25034-C - Pulley Remover
- J-25033-C - Pulley Installer

Power Steering Pump Replacement (Article 13460)

Removal Procedure

- Remove the front intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .
- Cover the air conditioning compressor in order to prevent power steering fluid from dripping on the air conditioning compressor.
- Place drain pans under the vehicle.
- Remove the power steering fluid reservoir outlet hose from the vehicle. Refer to Power Steering Fluid Reservoir Outlet Hose Replacement .
- Disconnect the power steering gear inlet hose from the power steering pump . Cap the power steering gear inlet hose. Refer to Power Steering Gear Inlet Pipe/Hose Replacement .
- If you are removing and installing the same power steering pump , plug the power steering pump outlet port.
- Remove the power steering pump pulley from the vehicle. Refer to Power Steering Pump Pulley Replacement .
- Remove the 3 power steering pump bracket bolts (2, 3, 4). Click for full-size image
- Remove the power steering pump and the bracket as an assembly (1) from the vehicle. Click for full-size image
- If equipped, remove the bolt (3) and the pump auxiliary bracket (1) from the pump (2). Click for full-size image
- If you will be installing a NEW power steering pump, remove the power steering pump from the bracket. Refer to Power Steering Pump Bracket Replacement .

Installation Procedure

- If you are installing a NEW power steering pump, install the power steering pump to the power steering pump bracket. Refer to Power Steering Pump Bracket Replacement .
- If equipped, install the pump auxiliary bracket (1). Install the power steering pump auxiliary bracket bolt (3) and tighten to 20 Nm (15 lb ft) . Click for full-size image
- Ensure there is a plug in the power steering pump outlet port.
- Position the power steering pump and the bracket as an assembly (1) in the vehicle. Click for full-size image

image

- Install the right front power steering pump bracket bolt (4) and tighten to 58 Nm (43 lb ft) . Click for full-size image
- Install the left rear power steering pump bracket bolt (2) and tighten to 58 Nm (43 lb ft) .
- Install the left front power steering pump bracket bolt (3) and tighten to 58 Nm (43 lb ft) .
- Install the power steering fluid reservoir outlet hose to the vehicle. Refer to Power Steering Fluid Reservoir Outlet Hose Replacement .
- Fill the power steering fluid reservoir. Refer to Checking and Adding Power Steering Fluid .
- Remove the cap from the power steering gear inlet hose. When fluid starts to flow from the hose, cap the hose with your thumb. Ensure the O-ring seal is on the hose and is in good condition.
- Remove the plug from the power steering pump outlet port and quickly connect the power steering gear inlet hose to the power steering pump. Refer to Power Steering Gear Inlet Pipe/Hose Replacement .
- Clean any excess power steering fluid from the vehicle.
- Install the power steering pump pulley to the power steering pump. Refer to Power Steering Pump Pulley Replacement .
- Remove the cover from the air conditioning compressor.
- Fill and bleed the power steering system. Refer to Power Steering System Bleeding .
- Remove the drain pans.
- Install the front intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .

Power Steering Pump Bracket Replacement (Article 13458)

Callout Component Name

Preliminary Procedures Remove the front intake manifold cover. Refer to Intake Manifold Cover Replacement - Front . Remove the air cleaner assembly. Refer to Air Cleaner Assembly Replacement . Disconnect the accessory drive belt from the power steering pump pulley only. Refer to Drive Belt Replacement . Disconnect the power steering pump bracket from the engine block. DO NOT disconnect the power steering hoses . Refer to Power Steering Pump Replacement .

Preliminary Procedures

- Remove the front intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .
- Remove the air cleaner assembly. Refer to Air Cleaner Assembly Replacement .
- Disconnect the accessory drive belt from the power steering pump pulley only. Refer to Drive Belt Replacement .
- Disconnect the power steering pump bracket from the engine block. DO NOT disconnect the power steering hoses . Refer to Power Steering Pump Replacement .

1 Power Steering Pump Bolt (Qty: 3) Caution: Refer to Fastener Caution . Tighten 22 Nm (16 lb ft)

22 Nm (16 lb ft)

2 Power Steering Pump Bracket

Power Steering Pump Specifications (Article 13484)

Engine Code Engine Size High Flow Pressure Relief

LPM GPM kPa PSI

LFX 3.6L 8.0 2.11 11197–11997 1624–1740

All Technical Service Bulletins (itype_100)

Tsbs

- Steering - Power Steering Fluid Leaks (07-02-32-002N, 2013/09/18)

Customer Interest Bulletins (itype_109)

Tsbs

- Steering - Power Steering Fluid Leaks (07-02-32-002N, 2013/09/18)

Leaks (itype_149)

Tsbs

- Steering - Power Steering Fluid Leaks (07-02-32-002N, 2013/09/18)