

Component Procedures: Power Steering Line/Hose

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Component Procedures: Power Steering Line/Hose

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Hydraulic > P/S Pressure Hose	22790847	P/s Pressure Hose	0.00	
Hydraulic > P/S Return Hose	92249333	P/s Return Hose	0.00	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Power Hydraulic > P/S Pump & Hoses > P/S Pres?	B	0.9	0.7
Remove & Replace	Power Hydraulic > P/S Pump & Hoses > P/S Retu?	B	0.9	0.7
Remove & Replace	Power Hydraulic > P/S Pump & Hoses > Reservo?	B	0.4	0.3

Fluid Cooler Outlet Hose Replacement (Article 13451)

Removal Procedure

- Remove the air cleaner assembly . Refer to Air Cleaner Assembly Replacement for the V6 engine or to Air Cleaner Assembly Replacement for the V8 engine.
- If equipped with the V6 engine, cover the air conditioning compressor in order to prevent power steering fluid from dripping on the air conditioning compressor. If equipped with the V8 engine, cover the generator in order to prevent power steering fluid from dripping on the generator.
- Place drain pans under the vehicle.
- Disconnect the power steering fluid cooler outlet hose (2) from the power steering fluid reservoir (1). Cap the power steering fluid reservoir inlet port. Plug the power steering fluid cooler outlet hose. Click for full-size image
- Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
- Disconnect the power steering fluid cooler outlet hose (3) from the power steering fluid cooler outlet port (1) on the air conditioning condenser. Cap the power steering fluid cooler outlet port. Click for full-size image
- Remove the bolt and separate the bracket from the front frame.
- Remove the power steering fluid cooler outlet hose from the vehicle.

Installation Procedure

- Plug the cooler end of the power steering fluid cooler outlet hose.
- Position the power steering fluid cooler outlet hose on the front frame.
- Install the bracket to the front frame with the bolt and tighten to 9 Nm (80 lb in) .
- Remove the cap from the power steering fluid reservoir (1) inlet port. Remove the plug from the power steering fluid cooler outlet hose (2). Connect the power steering fluid cooler outlet hose to the power steering fluid reservoir. Click for full-size image
- Remove the plug from the power steering fluid cooler outlet hose (3). When fluid starts to flow from the hose, cap the hose with your thumb. Click for full-size image
- Remove the cap from the power steering fluid cooler outlet port (1) and quickly connect the power steering fluid cooler outlet hose to the power steering fluid cooler outlet port.
- Remove the drain pans.
- Lower the vehicle.
- Clean any excess power steering fluid from the vehicle.
- Remove the cover from either the air conditioning compressor or the generator, as applicable.
- Install the air cleaner assembly. Refer to Air Cleaner Assembly Replacement for the V6 engine or to Air Cleaner Assembly Replacement for the V8 engine.
- Bleed the power steering system. Refer to Power Steering System Bleeding .

Power Steering Fluid Reservoir Outlet Hose Replacement (Article 13454)

Callout Component Name

Caution: Do not start the vehicle with any power steering gear inlet or outlet hoses disconnected. When disconnected, plug or cap all openings of components. Failure to do so could result in contamination or loss of power steering fluid and damage to the system. 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 . 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 as much power steering fluid from the reservoir as possible.

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 .
- 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 as much power steering fluid from the reservoir as possible.

1 Power Steering Fluid Reservoir Outlet Hose Procedure Disconnect the power steering fluid reservoir outlet hose from the power steering pump . Cap the power steering pump inlet port. Disconnect the power steering fluid reservoir outlet hose from the power steering fluid reservoir. Cap the power steering pump outlet port. Fill the power steering fluid reservoir. Refer to Checking and Adding Power Steering Fluid . Clean any excess power steering fluid from the vehicle.

Procedure

- Disconnect the power steering fluid reservoir outlet hose from the power steering pump . Cap the power steering pump inlet port.
- Disconnect the power steering fluid reservoir outlet hose from the power steering fluid reservoir. Cap the power steering pump outlet port.
- Fill the power steering fluid reservoir. Refer to Checking and Adding Power Steering Fluid .
- Clean any excess power steering fluid from the vehicle.

Power Steering Gear Inlet Pipe/Hose Replacement (Article 13456)

Removal Procedure

- Remove the air cleaner assembly . Refer to Air Cleaner Assembly Replacement for the V6 engine or to Air Cleaner Assembly Replacement for the V8 engine.
- If equipped with the V6 engine, cover the air conditioning compressor in order to prevent power steering fluid from dripping on the air conditioning compressor. If equipped with the V8 engine, cover the generator in order to prevent power steering fluid from dripping on the generator.
- Place drain pans under the vehicle.
- Disconnect the power steering gear inlet hose (2) from the power steering pump (1). Plug the power steering pump outlet port. Cap the power steering gear inlet hose. [Click for full-size image](#)
- Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
- Disconnect the power steering gear inlet hose (2) from the power steering gear (1). Plug the power steering gear inlet port. [Click for full-size image](#)
- Remove the 2 bolts from the 2 brackets.
- Remove the power steering gear inlet hose from the vehicle.

Installation Procedure

- Cap the power steering gear end of the power steering gear inlet hose.
- Position the power steering gear inlet hose on the front frame.
- Install the 2 bolts to the 2 brackets and tighten to 9 Nm (80 lb in) .
- Remove the cap from the power steering gear inlet hose (2). Ensure the O-ring seal is on the hose and is in good condition. [Click for full-size image](#)
- Remove the plug from the power steering pump outlet port and quickly connect the power steering gear inlet hose to the power steering pump. Tighten the power steering gear inlet hose fitting to 34 Nm (25 lb ft) .
- Remove the cap from the power steering gear inlet hose (2). When fluid starts to flow from the hose, cap the hose with your finger. Ensure the O-ring seal is on the hose and is in good condition. [Click for full-size image](#)
- Remove the plug from the steering gear (1). Connect the power steering gear inlet hose to the steering gear. Tighten the power steering gear inlet hose fitting to 34 Nm (25 lb ft) .
- Clean any excess power steering fluid from the vehicle.
- Remove the cover from either the air conditioning compressor or the generator, as applicable.
- Remove the drain pans.
- Lower the vehicle.
- Install the air cleaner assembly. Refer to Air Cleaner Assembly Replacement for the V6 engine or to Air Cleaner Assembly Replacement for the V8 engine.
- Bleed the power steering system. Refer to Power Steering System Bleeding .

Power Steering Gear Outlet Pipe/Hose Replacement (Article 13457)

Removal Procedure

- Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
- Place drain pans under the vehicle.
- Disconnect the power steering gear outlet hose (2) from the steering gear (1). Plug the steering gear outlet port. Cap the power steering gear outlet hose. [Click for full-size image](#)
- Disconnect the power steering gear outlet hose (1) from the power steering fluid cooler inlet port (3) on the air conditioning condenser. Cap the power steering fluid cooler inlet port. [Click for full-size image](#)
- Remove the 3 bolts from the 3 brackets (4) on the power steering gear outlet hose.
- Remove the power steering gear outlet hose from the vehicle.

Installation Procedure

- Cap the power steering gear end of the power steering gear outlet hose.
- Position the power steering gear outlet hose on the front frame.
- Install the 3 bolts to the 3 brackets (4) on the power steering gear outlet hose (1). Tighten the bolts to 9 Nm (80 lb in) . [Click for full-size image](#)
- Remove the cap from the power steering fluid cooler inlet port (3). Connect the power steering gear outlet hose to the power steering fluid cooler inlet port.
- Remove the cap from the power steering gear outlet hose (2). When fluid begins to flow from the hose, cover the end of the hose with your finger. Ensure the O-ring seal is on the hose and is in good condition. [Click for full-size image](#)
- Remove the plug from the steering gear outlet port and quickly connect the power steering gear outlet hose to the steering gear. Tighten the fitting to 34 Nm (25 lb ft) .
- Clean any excess power steering fluid from the vehicle.
- Remove the drain pans.
- Lower the vehicle.
- Bleed the power steering system. Refer to Power Steering System Bleeding .

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)