



2006 Mercedes-Benz R350 4Matic, GAS, 6 Cylinder, 3.5 Liter, 24 Valve, FI, DOHC [Service](#) [Steering and Suspension](#)

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## 2006-10 R350 3.5L

### Power Steering Pump, Replace

#### w/ElectroHydraulic Power Steering (EHPS)

1.	On Keyless Go equipped models, press Keyless Go start/stop button repeatedly until ignition switch is switched off. Remove transmitter key from vehicle and store it in a location at least 6 feet away from vehicle.
2.	On all other models, switch off ignition and remove transmitter key from EIS control unit.
3.	Remove power steering fluid from expansion reservoir of EHPS. <b>Ensure to place any old power steering fluid into a suitable container. Do not re-use old power steering fluid.</b>
4.	Remove electrical connectors and unclip wiring harness from EHPS unit. <b>Fig. 1</b>
5.	Clamp off return hose of expansion reservoir of EHPS and remove hose from EHPS unit.
6.	Remove bolt at connection of high pressure hose of EHPS then remove high pressure hose from EHPS unit. <b>Seal openings of hoses using suitable plugs.</b>
	<b>Replace sealing rings.</b>
7.	Remove EHPS mounting bolts and then remove EHPS unit from vehicle.
8.	Reverse procedure to install, noting the following:
a.	<b>Torque</b> high pressure hose to EHPS unit to 33 ft. lbs.

#### Less ElectroHydraulic Power Steering (EHPS)

1.	Remove engine trim panels, if required.
2.	Remove air filter housing.
3.	Remove charge-air duct hose.
4.	Extract power steering fluid from expansion reservoir of power steering pump and place into a suitable drain container. <b>Fig. 2</b>
5.	Remove power steering expansion reservoir from vehicle.
6.	Disconnect hose of expansion reservoir at power steering pump.
7.	Discharge air conditioning system using suitable A/C recovery machine.
8.	Remove refrigerant suction line from A/C compressor.
9.	Remove air intake pipe with MAF sensor on left.
10.	Remove power steering pump drive belt.
11.	Remove front section of fender liner in right front fender.
12.	Remove high pressure hose from power steering pump.
13.	Disconnect pressure regulator valve connector from power steering pump.
14.	Remove power steering pump mounting bolts from timing case cover.
15.	Remove power steering pump from vehicle.
16.	Reverse procedure to install, noting the following:
a.	<b>Torque</b> power steering pump to control housing bolt to 15 ft. lbs.
b.	<b>Torque</b> power steering high pressure hose at pump to 33 ft. lbs.
c.	<b>Torque</b> wheel lug nuts to 81 ft. lbs.

#### Power Steering System Bleed

1.	Lift or jack up front of vehicle just until wheels are off the ground.
2.	Fill expansion reservoir with suitable power steering fluid. <b>Do not start engine. If engine is started there is risk of air entering hydraulic steering system, which is then extremely difficult to remove.</b>
3.	Fill expansion reservoir of suitable power steering fluid to approx. 10mm below upper edge of reservoir. <b>Refill continuously until oil level remains constant.</b>
4.	Turn steering wheel from steering stop to steering stop. <b>Repeat this step up to 30 times. During this process steering fluid must be poured into expansion reservoir by a second person.</b>
5.	Start engine without moving steering wheel. <b>Allow engine to idle for at least one minute. Add power steering fluid as required.</b>
6.	Turn steering wheel from steering stop to steering stop. <b>While engine is running move steering wheel slowly several times from stop to stop meanwhile adding power steering fluid in expansion reservoir.</b>
7.	Repeat procedure until power steering level in expansion reservoir remains constant and bubbles are no longer visible.

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