

Power Steering System Filling

Special Tool(s) / General Equipment

 E221580	211-265 Evacuation Cap, Power Steering TKIT-1999M2-FLM
	211-327 Fill Tool, Power Steering Vacuum TKIT-2004C-FLM
 416-D002	416-D002 Vacuum Pump Kit

Materials

Name	Specification
Motorcraft® MERCON® LV Automatic Transmission Fluid XT-10-QLVC	WSS-M2C938-A MERCON® LV,

Filling

NOTICE: If the air is not purged from the power steering system correctly, premature power steering pump failure may result. The condition can occur on pre-delivery vehicles with evidence of aerated fluid or on vehicles that have had steering component repairs.

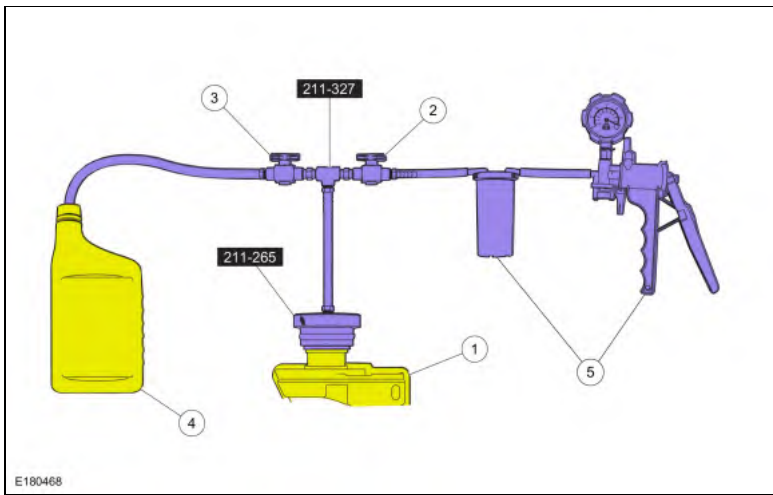
NOTICE: When removing the power steering fluid reservoir cap or disconnecting power steering components, make sure the surrounding areas are clean and free of foreign material.

1. Remove the power steering fluid reservoir cap.
2.
 1. Power steering fluid reservoir
 2. Control valve (vacuum side)
 3. Control valve (fluid container side)
4. **NOTE:** Use only the specified fluid.

Fluid container

Material: Motorcraft® MERCON® LV Automatic Transmission Fluid / XT-10-QLVC (WSS-M2C938-A) (MERCON® LV,)

5. Vacuum pump kit



3. Install the Power Steering Evacuation Cap, Power Steering Fill Adapter Manifold and Vacuum Pump Kit as shown in the illustration.
Use Special Service Tool: 211-265 Evacuation Cap, Power Steering , 211-327 Fill Tool, Power Steering Vacuum , 416-D002 Vacuum Pump Kit.
4. **NOTE:** The Power Steering Fill Adapter Manifold control valves are in the OPEN position when the points of the handles face the center of the Power Steering Fill Adapter Manifold.

Close the Power Steering Fill Adapter Manifold control valve (fluid side).
5. Open the Power Steering Fill Adapter Manifold control valve (vacuum side).
6. Using the Vacuum Pump Kit, apply 68-85 kPa (20-25 in-Hg) of vacuum to the power steering system.
Use Special Service Tool: 416-D002 Vacuum Pump Kit.
7. Observe the Vacuum Pump Kit gauge for 30 seconds.
8. If the Vacuum Pump Kit gauge reading drops more than 3 kPa (0.88 in-Hg), correct any leaks in the power steering system or the Power Steering Evacuation Cap, Power Steering Fill Adapter Manifold and Vacuum Pump Kit before proceeding.
9. **NOTE:** The Vacuum Pump Kit gauge reading will drop slightly during this step.

Slowly open the Power Steering Fill Adapter Manifold control valve (fluid side) until power steering fluid completely fills the hose and then close the control valve.
10. Using the Vacuum Pump Kit, apply 68-85 kPa (20-25 in-Hg) of vacuum to the power steering system.
Use Special Service Tool: 416-D002 Vacuum Pump Kit.
11. Close the Power Steering Fill Adapter Manifold control valve (vacuum side).
12. Slowly open the Power Steering Fill Adapter Manifold control valve (fluid side).
13. **NOTE:** It may be necessary to repeat the filling procedure until the fluid level in the reservoir is correct.

Once power steering fluid enters the fluid reservoir and reaches the minimum fluid level indicator line on the reservoir, close the Power Steering Fill Adapter Manifold control valve (fluid side).
14. Remove the Power Steering Evacuation Cap, Power Steering Fill Adapter Manifold and Vacuum Pump Kit.
15. Install the reservoir cap.
16. **NOTICE:** Do not hold the steering wheel against the stops for an extended amount of time. Damage to the power steering pump may occur.

NOTE: There will be a slight drop in the power steering fluid level in the reservoir when the engine is started.

Start the engine.
17. Slowly open the steering gear bleed valve. When a steady stream of red non-aerated fluid flows, close the bleed valve.
Torque: 21 lb.ft (28 Nm)
18. Rotate the steering wheel from stop to stop.
19. Turn the ignition switch to the OFF position.

20. **NOTE:** *Do not overfill the reservoir.*

Remove the power steering fluid reservoir cap and fill the reservoir with the specified fluid.

Material: Motorcraft® MERCON® LV Automatic Transmission Fluid / XT-10-QLVC (WSS-M2C938-A) (MERCON® LV,)

21. Install the power steering fluid reservoir cap.

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