

211-00 Steering System - General Information
General Procedures

2019 Ranger

Procedure revision date: 07/27/2016

Power Steering System Bleeding

Special Tool(s) / General Equipment

	416-D001 Hand Vacuum Pump/Pressure Pump
23036A	

Materials

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

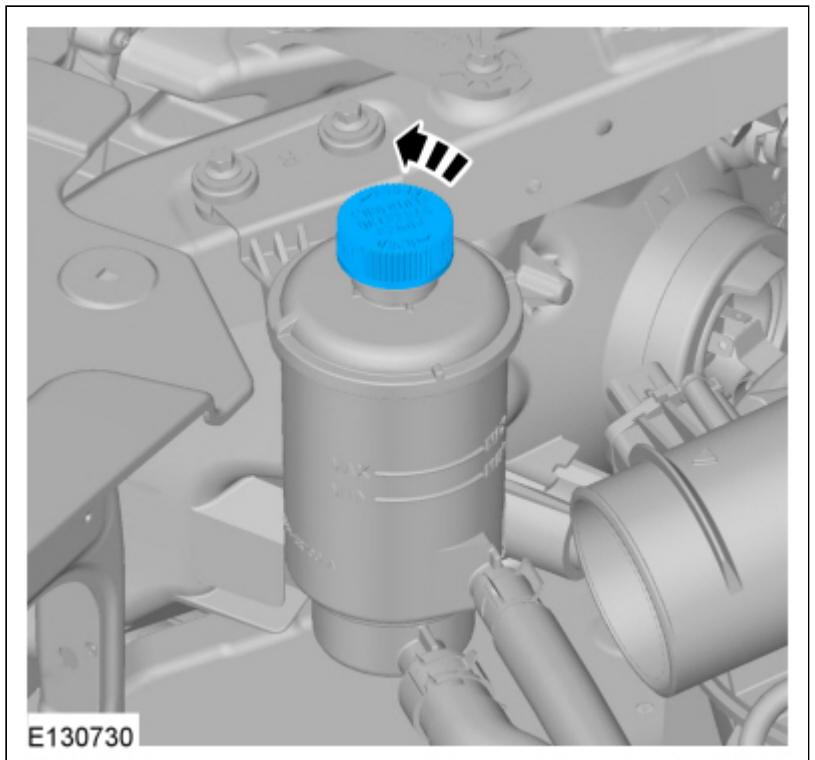
Activation

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

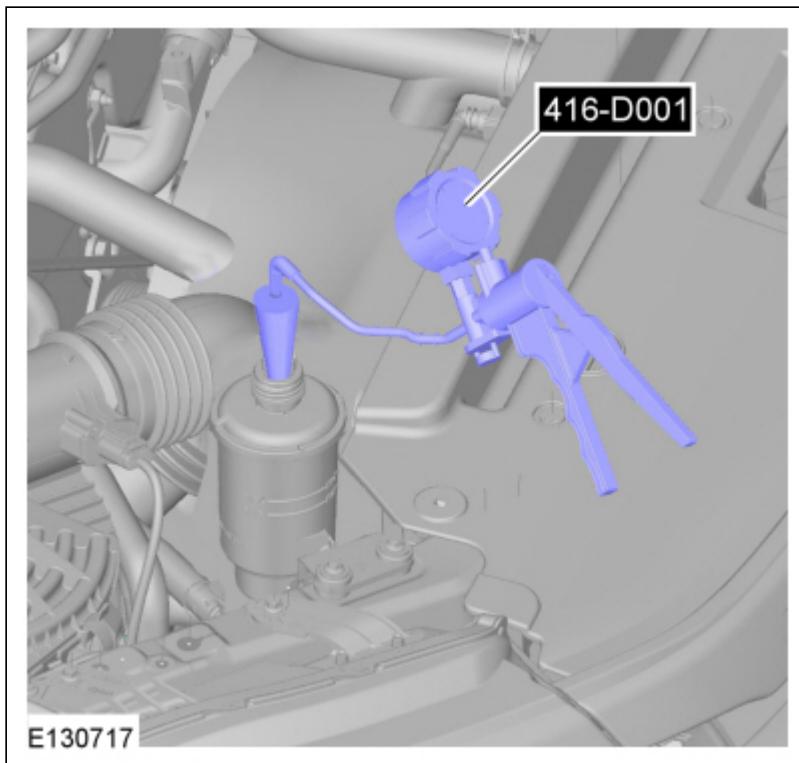
NOTE: When filling the power steering fluid reservoir, make sure that the power steering fluid is clean and not agitated prior to use. The power steering fluid should be poured slowly into the reservoir to minimize the possibility of aeration.

1. NOTICE: The fluid level must remain between the MAX and MIN marks.

Remove the power steering reservoir cap. Check the fluid.



2. Raise and support the vehicle making sure that the road wheels are just clear of the floor.
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).
3. Use Special Service Tool: 416-D001 Hand Vacuum Pump/Pressure Pump.



4. Start the engine and let it idle.
5. Using the Vacuum Pump Kit, apply vacuum and maintain the maximum vacuum of 68-85 kPa (20-25 in-Hg).
6. If the vacuum decreases by more than 5cm-Hg in 5 minutes, check the power steering system for leaks .
7. If equipped with Hydro-Boost®, apply the brake pedal 4 times.
8. **NOTICE: Do not hold the steering wheel against the stops for more than 5 seconds. Damage to the power steering pump may occur.**

Cycle the steering wheel fully from stop-to-stop 10 times.

9. Stop the engine.
10. Release the vacuum and remove the Vacuum Pump Kit.
11. **NOTICE: The fluid level must remain between the MAX and MIN marks.**

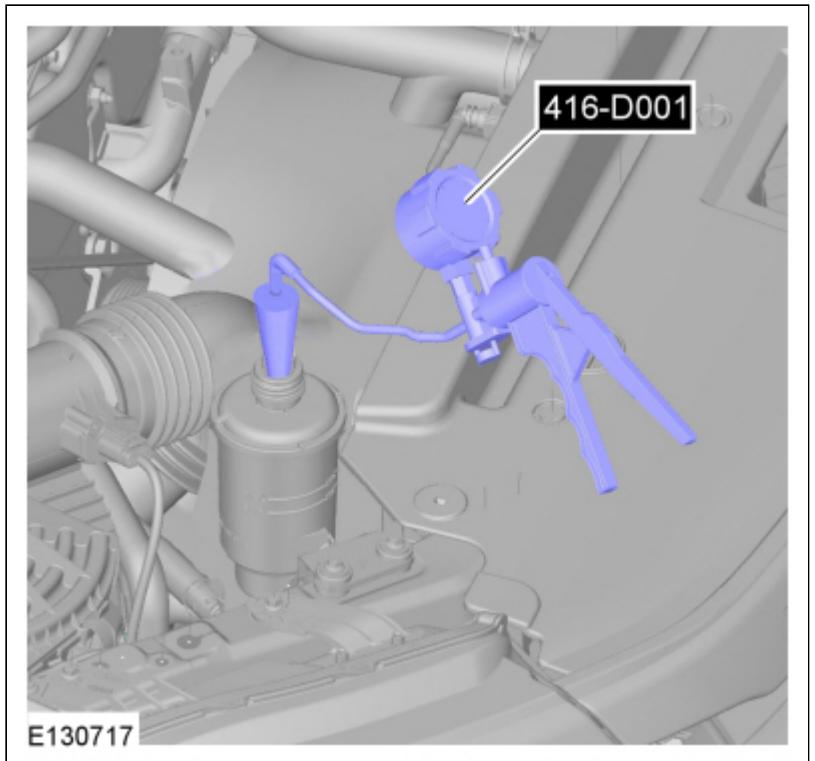
NOTICE: Only use the specified lubricant.

Fill the power steering fluid.

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

12. Start the engine and let it idle.
13. Install the Vacuum Pump Kit. Apply and maintain the maximum vacuum of 68-85 kPa (20-25 in-Hg).
Use Special Service Tool: 416-D001 Hand Vacuum Pump/Pressure Pump.





14. **NOTICE: Do not hold the steering wheel against the stops for more than 5 seconds. Damage to the power steering pump may occur.**

Cycle the steering wheel fully from stop-to-stop 10 times.

15. Stop the engine, release the vacuum and remove the Vacuum Pump Kit.

16. **NOTICE: The fluid level must remain between the MAX and MIN marks.**

NOTICE: Only use the specified lubricant.

Fill the power steering fluid.

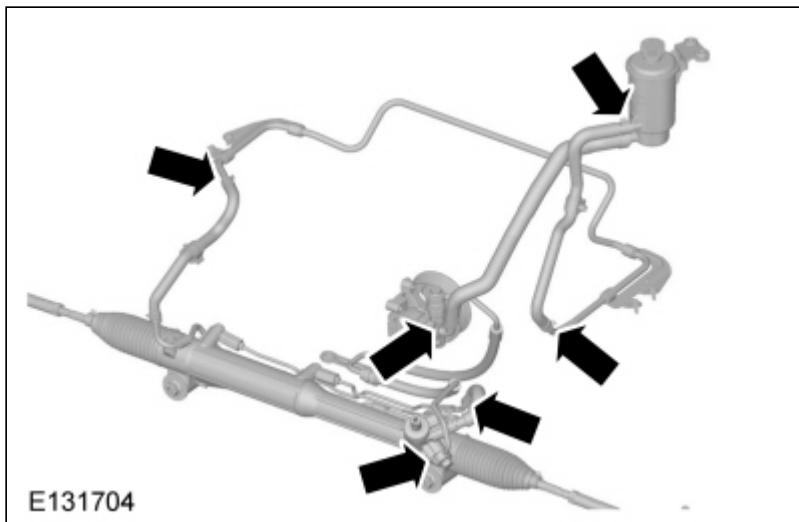
Material: Motorcraft® MERCON® LV Automatic Transmission Fluid / XT-10-QLVC (MERCON® LV) (WSS-M2C938-A)

17. **NOTICE: Do not hold the steering wheel against the stops for more than 5 seconds. Damage to the power steering pump may occur.**

NOTE: The points where fluid leakage may occur are indicated in the figure.

Visually inspect the power steering system for leaks. Start the engine and let it idle, turn the steering wheel from lock to lock. If excessive noise is apparent, repeat the power steering bleeding procedure.





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