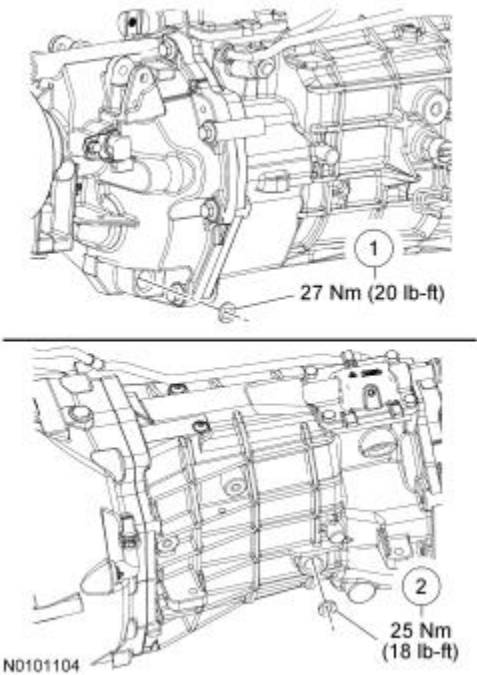


Transmission Draining and Filling

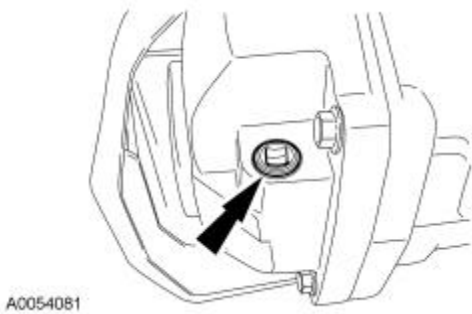
Material		
Item	Specification	Fill Capacity
MERCON® V Automatic Transmission Fluid XT-5-QM (or XT-5-QMC) (US); CXT-5-LM12 (Canada)	MERCON® V	3.96L (4.18 qt)
Threadlock and Sealer TA-25	WSK-M2G351-A5	



Item	Part Number	Description
1	7A010	Drain plug
2	7A010	Fill plug

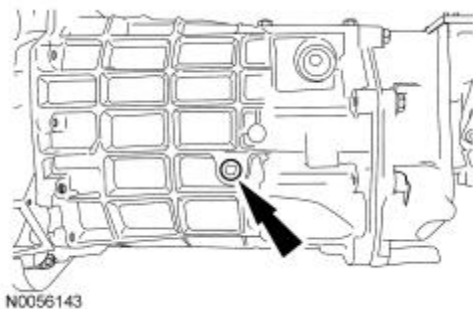
**NOTE:** When filling the transmission, start the engine and shift the transmission through all gears to eliminate any trapped air in the transmission fluid cooling system.

- 1. With the vehicle in NEUTRAL, position it on a hoist. Refer to [Section 100-02](#).
- 2. Remove the drain plug and drain the transmission.

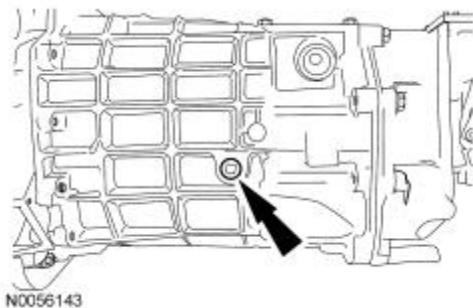


3. Clean the drain plug. Apply threadlock and sealer to the plug threads and install the drain plug.
  - Tighten to 27 Nm (20 lb-ft).
4. **NOTE:** Before removing the fill plug, clean the area around the fill plug.

Remove the fill plug.



5. Using a oil suction gun, fill the transmission with the specified fluid until it is even with the oil fill plug hole.
6. Install the fill plug. Start the engine and shift the transmission through all the gears to eliminate any trapped air in the transmission fluid cooling system.
7. Remove the fill plug.
8. Using a oil suction gun, fill the transmission with the specified fluid until it is even with the oil fill plug hole.
  - Transmission capacity is 3.96L (4.18 qt).
9. Apply threadlock and sealer to the plug threads and install the fill plug.
  - Tighten to 25 Nm (18 lb-ft).



## Transmission Fluid Cooler Backflushing and Cleaning

### Special Tool(s)



Transmission Heated Cooler Line Flusher  
222-00007, 222-00004 or equivalent

**NOTICE:** Do not use any supplemental transmission fluid additives or cleaning agents. The use of these products could cause internal transmission components to fail; this will affect the operation of the transmission.

**NOTE:** Transmission fluid cooler backflushing and cleaning will be performed using the Transmission Heated Cooler Line Flusher or equivalent. Follow the manufacturer's instructions included with the machine. Test the equipment to make sure that a vigorous fluid flow is present before proceeding.

1. Check and top off the fluid level of the cooler line flusher with transmission fluid.
2. Allow the transmission fluid in the cooler line flusher 15-30 minutes to heat up to 60°C (140°F) before using.
3. Install the line adapters into the transmission fluid cooler tubes.
4. Attach the cooler line flusher red line to the transmission fluid cooler pressure tube.
5. Attach the cooler line flusher blue line to the transmission fluid cooler return tube.
6. Follow the equipment instructions to purge the transmission fluid cooler tubes and cooler prior to starting the flushing procedure.
7. Allow the transmission fluid cooling system to backflush for 10-15 minutes, then flush the transmission fluid cooler in a normal flow direction for an additional 10-15 minutes.

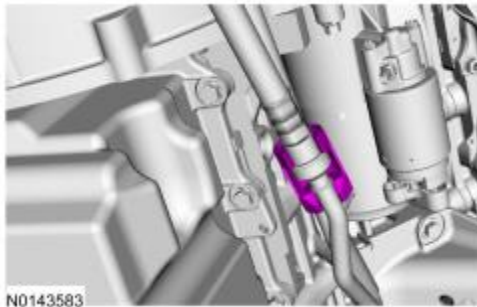
## Transmission Fluid Cooler Flow Test

### Special Tool(s)

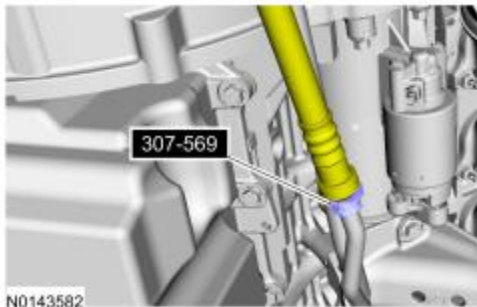


Disconnect Tool, Transmission Cooler Line  
307-569

1. With the vehicle in NEUTRAL, position it on a hoist. Refer to [Section 100-02](#).
2. Remove the cooler tube secondary latch.

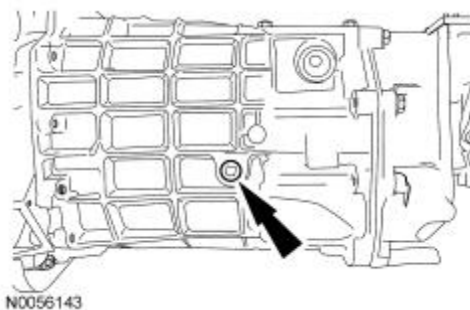


3. Using the Transmission Cooler Line Disconnect Tool, disconnect the cooler tube from the transmission cooler tube.



4. **NOTE:** Before removing the fill plug, clean the area around the fill plug.

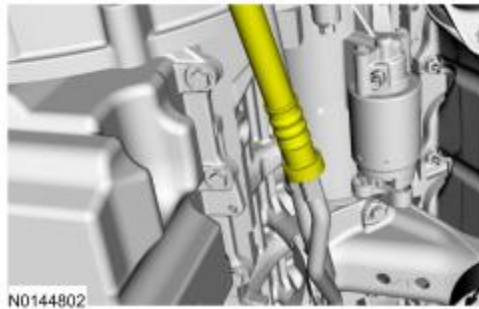
Remove the fill plug.



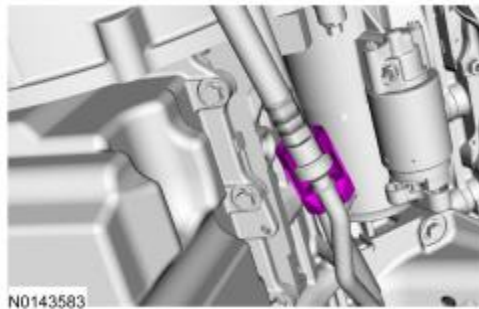
5. Connect one end of a 9.25 mm (0.3750 in) inner diameter x 1,500 mm (60 in) long hose to the fluid cooler return tube and insert the other end into the fluid fill hole in the transmission case.
6. Start the engine and run it at idle with the transmission in NEUTRAL.
7. **NOTE:** The fluid flow must be steady (without air bubbles) to make sure of an accurate reading.

Remove the end of the hose from the fluid fill hole in the transmission case and place it into a measuring container for 15 seconds make sure that a vigorous fluid flow is present. After 15 seconds, insert the end of the hose back into the fluid fill hole in the transmission case.

8. Turn the engine off.
9. Connect the cooler tube to the transmission cooler tube.



10. Install the cooler tube secondary latch.



11. Fill the transmission to the correct fluid level. Refer to [Section 308-03B](#).
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