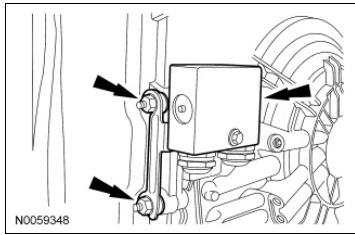
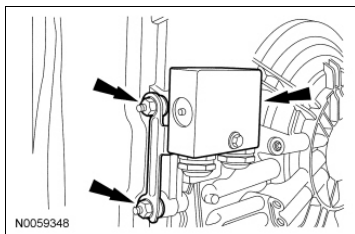


10. Remove the 2 transmission fluid cooler thermal bypass valve nuts and the transmission fluid cooler thermal bypass valve.

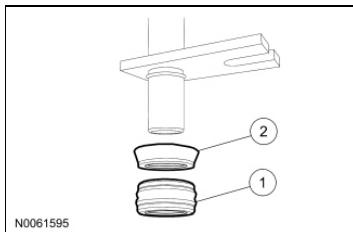


Installation

1. Position the transmission fluid cooler thermal bypass valve in place and install the 2 transmission fluid cooler thermal bypass valve nuts.
 - Tighten to 9 Nm (80 lb-in).

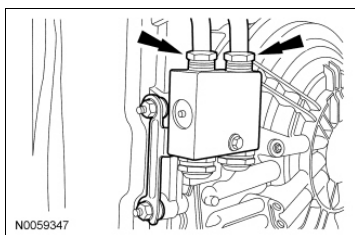


2. Inspect the transmission fluid cooler tube backing rings and seals for damage and install new backing rings or seals, if necessary. Lubricate the transmission fluid cooler tube seals with clean transmission fluid and install the backing rings and seals on the transmission fluid cooler tubes.

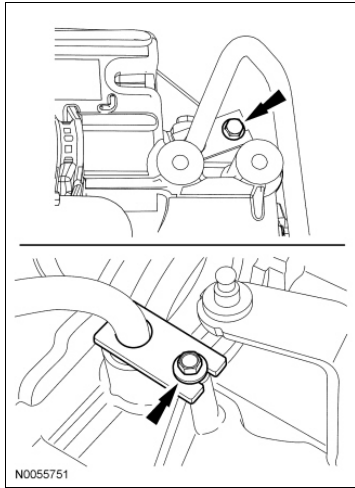


Item	Part Number	Description
1	7D285	Seal
2	7J324	Backing ring

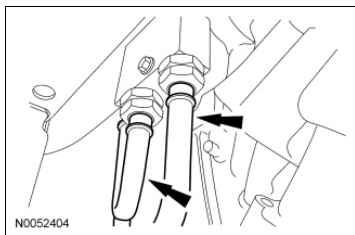
3. Position the 2 transmission fluid cooler tubes on the transaxle and tighten the 2 transmission fluid cooler tube fittings.
 - Tighten to 30 Nm (22 lb-ft).



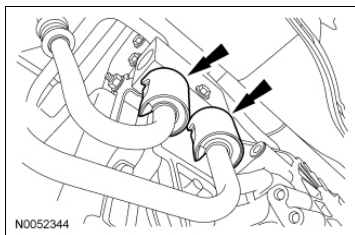
4. Install 2 new transmission fluid cooler tube bolts.
 - Tighten to 9 Nm (80 lb-in).



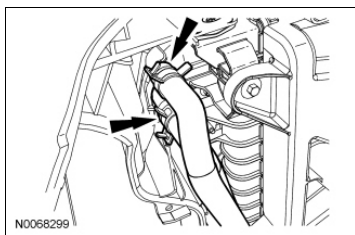
5. Install the transmission fluid cooler tubes in the transmission fluid cooler thermal bypass valve.



6. Install the 2 transmission fluid cooler tube secondary latches on the transmission fluid cooler tubes at the transmission fluid cooler thermal bypass valve.



7. Compress the constant tension clamps and install the transmission fluid cooler tubes on the transmission fluid cooler.



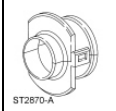
8. Install the battery tray. For additional information, refer to [Section 414-01](#) .

9. Install the ACL and outlet pipe. For additional information, refer to [Section 303-12](#) .

10. Check the transmission fluid level and add transmission fluid as necessary.

Transmission Fluid Cooler Tubes - 3.5L GTDI

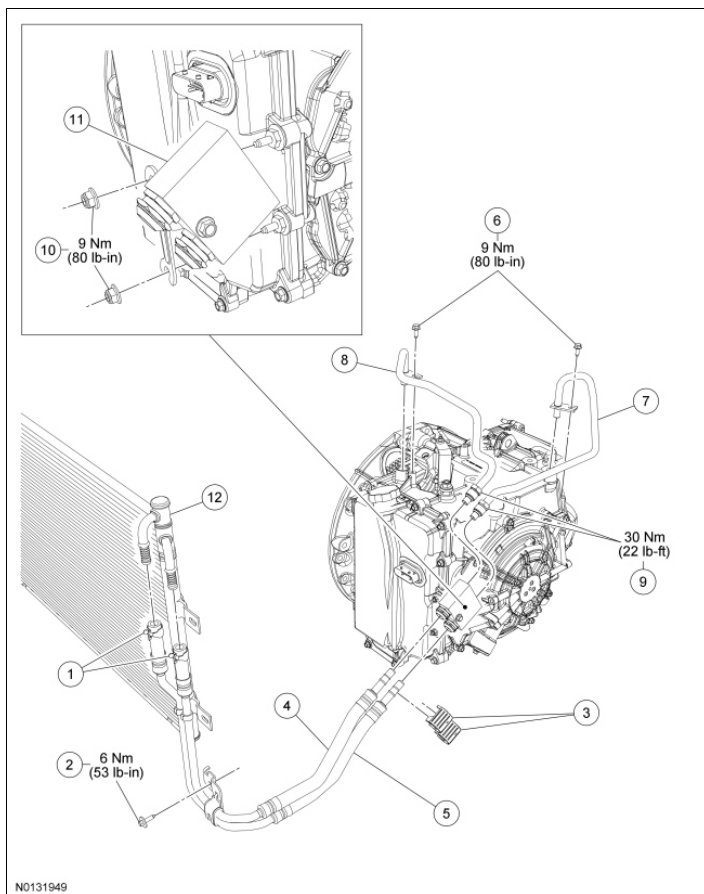
Special Tool(s)

 <p>ST2870-A</p>	<p>Disconnect Tool, Transmission Cooler Line 307-569</p>
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Material

Item	Specification
<p>Motorcraft® MERCON® LV Automatic Transmission Fluid XT-10-QLVC</p>	<p>MERCON® LV</p>

Transmission Fluid Cooler Tubes (3.5L Gasoline Turbocharged Direct Injection (GTDI) Engine)



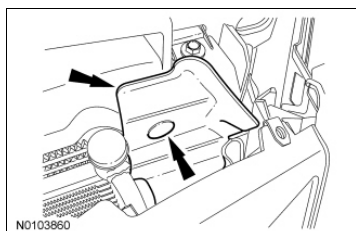
Item	Part Number	Description
1	7C107	Constant tension clamps
2	W503924	Transmission fluid cooler tube retainer bolt

3	7J081	Transmission fluid cooler tube secondary latches
4	7R081	Transmission fluid cooler outlet tube and hose assembly
5	7R081	Transmission fluid cooler inlet tube and hose assembly
6	W715831	Transmission fluid cooler tube bolts
7	7H420	Transmission fluid cooler inlet tube
8	7H420	Transmission fluid cooler outlet tube
9	-	Transmission fluid cooler tube fittings (part of 7H420)
10	W520101	Transmission fluid cooler thermal bypass valve nuts
11	7H322	Transmission fluid cooler thermal bypass valve
12	19712	Transmission fluid cooler

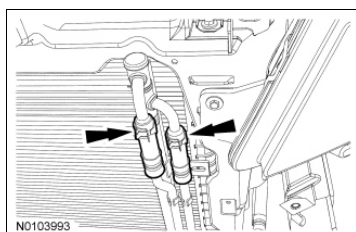
Removal

NOTICE: The use of any transmission fluid other than what is recommended for this transaxle will cause transaxle damage.

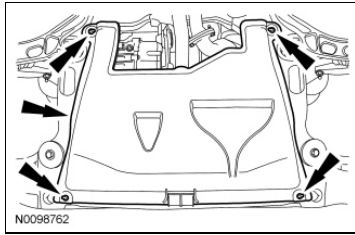
1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to [Section 100-02](#) .
2. Remove the Air Cleaner (ACL) and outlet pipe. For additional information, refer to [Section 303-12](#) .
3. Remove the battery tray. For additional information, refer to [Section 414-01](#) .
4. Remove the front bumper cover. For additional information, refer to [Section 501-19](#) .
5. Remove the pushpin retainer and position aside the air deflector to access the transmission fluid cooler tube clamps.



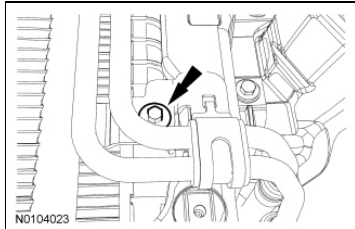
6. Compress the constant tension clamps and remove the transmission fluid cooler tubes from the transmission fluid cooler.



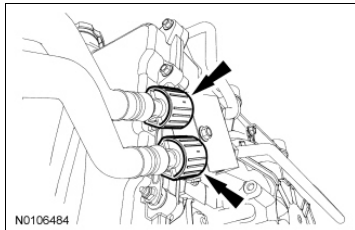
7. Remove the 4 retainers and the underbody shield.



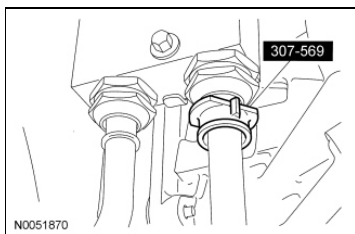
8. Remove the transmission fluid cooler tube retainer bolt.



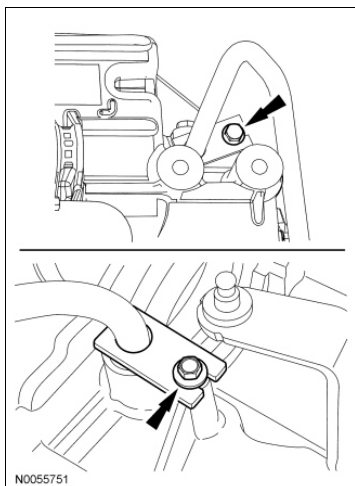
9. Remove the 2 transmission fluid cooler tube secondary latches from the transmission fluid cooler tubes at the transmission fluid cooler thermal bypass valve.



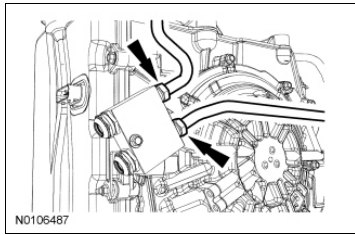
10. Using the Transmission Cooler Line Disconnect Tool, disconnect the transmission fluid cooler tubes from the transmission fluid cooler thermal bypass valve and remove the transmission fluid cooler inlet and outlet tube and hose assembly.



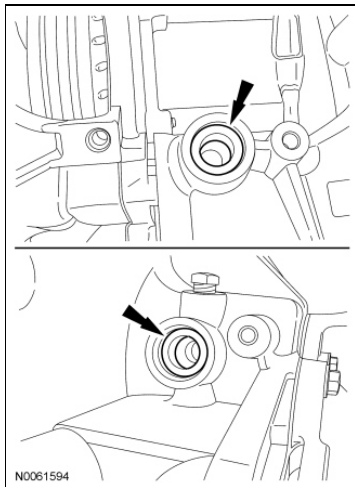
11. Remove and discard the 2 transmission fluid cooler tube bolts.



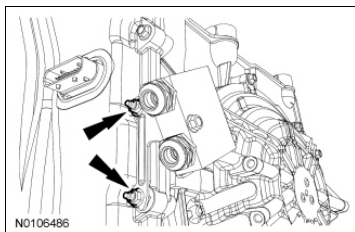
12. Loosen the 2 transmission fluid cooler tube fittings and remove the 2 transmission fluid cooler tubes from the transmission fluid cooler thermal bypass valve and the transaxle.



13. Inspect the transaxle case to be sure that the transmission fluid cooler tube seals and backing rings were removed with the transmission fluid cooler tubes and are not stuck in the transaxle case. If the transmission fluid cooler tube seals or backing rings are stuck in the transaxle case, remove the seals and backing rings.

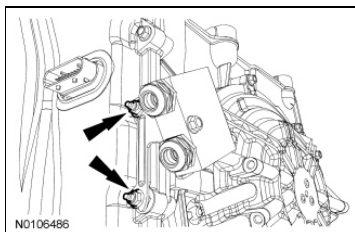


14. Remove the 2 transmission fluid cooler thermal bypass valve nuts and the transmission fluid cooler thermal bypass valve.



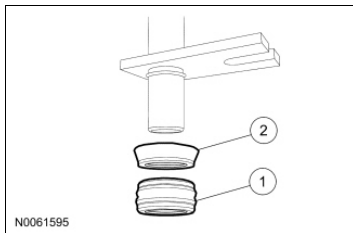
Installation

1. Position the transmission fluid cooler thermal bypass valve in place and install the 2 transmission fluid cooler thermal bypass valve nuts.
 - Tighten to 9 Nm (80 lb-in).



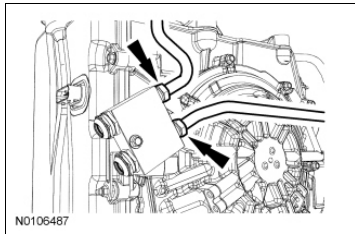
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2. Inspect the transmission fluid cooler tube backing rings and seals for damage and install new backing rings or seals, if necessary. Lubricate the transmission fluid cooler tube seals with clean transmission fluid and install the backing rings and seals on the transmission fluid cooler tubes.

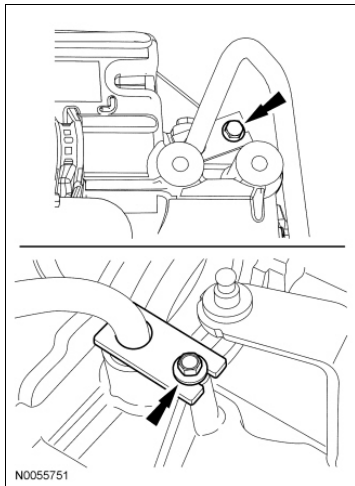


Item	Part Number	Description
1	7D285	Seal
2	7J324	Backing ring

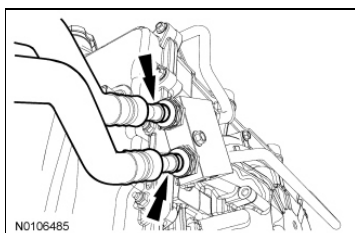
3. Position the 2 transmission fluid cooler tubes on the transaxle and tighten the 2 transmission fluid cooler tube fittings.
 - Tighten to 30 Nm (22 lb-ft).



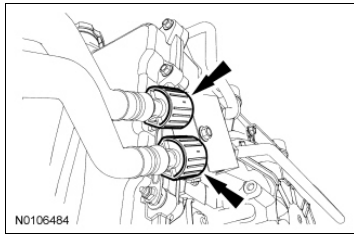
4. Install 2 new transmission fluid cooler tube bolts.
 - Tighten to 9 Nm (80 lb-in).



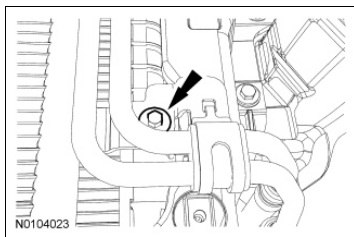
5. Install the transmission fluid cooler inlet and outlet tube and hose assembly in the transmission fluid cooler thermal bypass valve.



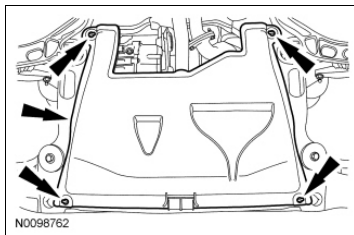
6. Install the 2 transmission fluid cooler tube secondary latches on the transmission fluid cooler tubes at the transmission fluid cooler thermal bypass valve.



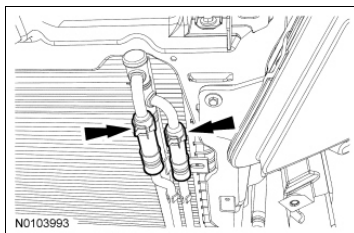
7. Install the transmission fluid cooler tube retainer bolt.
• Tighten to 6 Nm (53 lb-in).



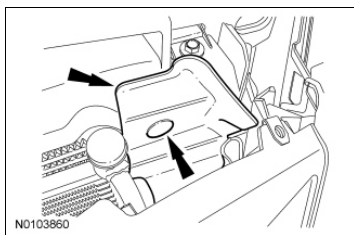
8. Install the underbody shield and the 4 retainers.



9. Compress the constant tension clamps and install the transmission fluid cooler tubes on the transmission fluid cooler.



10. Position the air deflector in place and install the pushpin retainer.



11. Install the front bumper cover. For additional information, refer to [Section 501-19](#) .

12. Install the battery tray. For additional information, refer to [Section 414-01](#) .

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13. Install the ACL and outlet pipe. For additional information, refer to [Section 303-12](#) .
 14. Check the transmission fluid level and add transmission fluid as necessary.
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Torque Specifications

Description	Nm	lb-in
Air Cleaner (ACL) assembly bracket bolt	11	97
ACL assembly outlet pipe clamp	5	44
Selector lever bolts	11	97
Selector lever cable grommet nuts	7	62
