

# Transmission Fluid Cooler Tubes - 2.7L EcoBoost (238kW/324PS)/3.5L EcoBoost (272kW/370PS)/5.0L 32V Ti-VCT

## Special Tool(s) / General Equipment

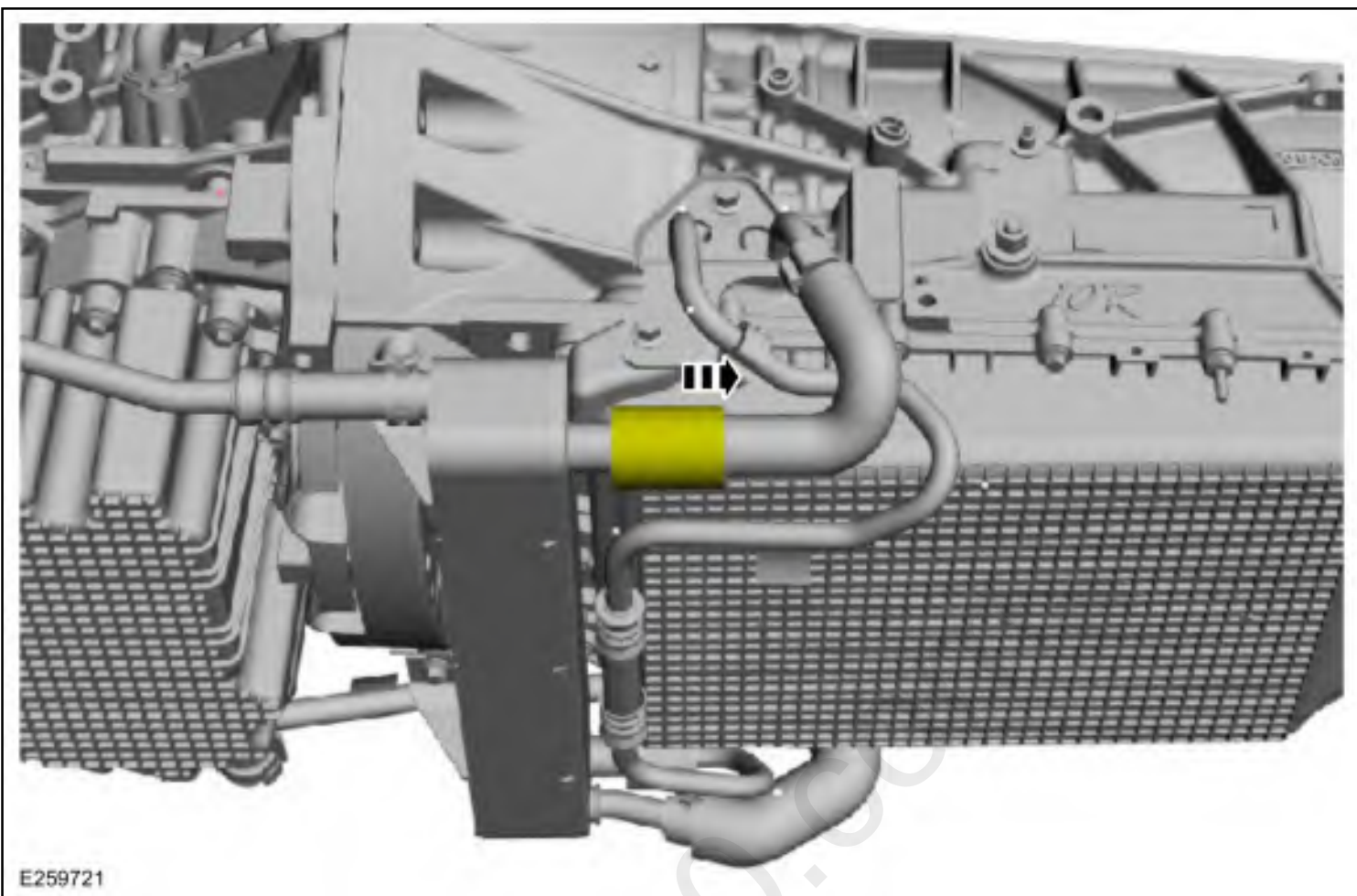
|                                                                                  |                                                                                                                         |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | 307-569<br>Disconnect Tool TOC Line (1/2)<br>TKIT-2006U-F/FM<br>TKIT-2006U-FLM/LM<br>TKIT-2006U-ROW1<br>TKIT-2006U-ROW2 |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|

## Materials

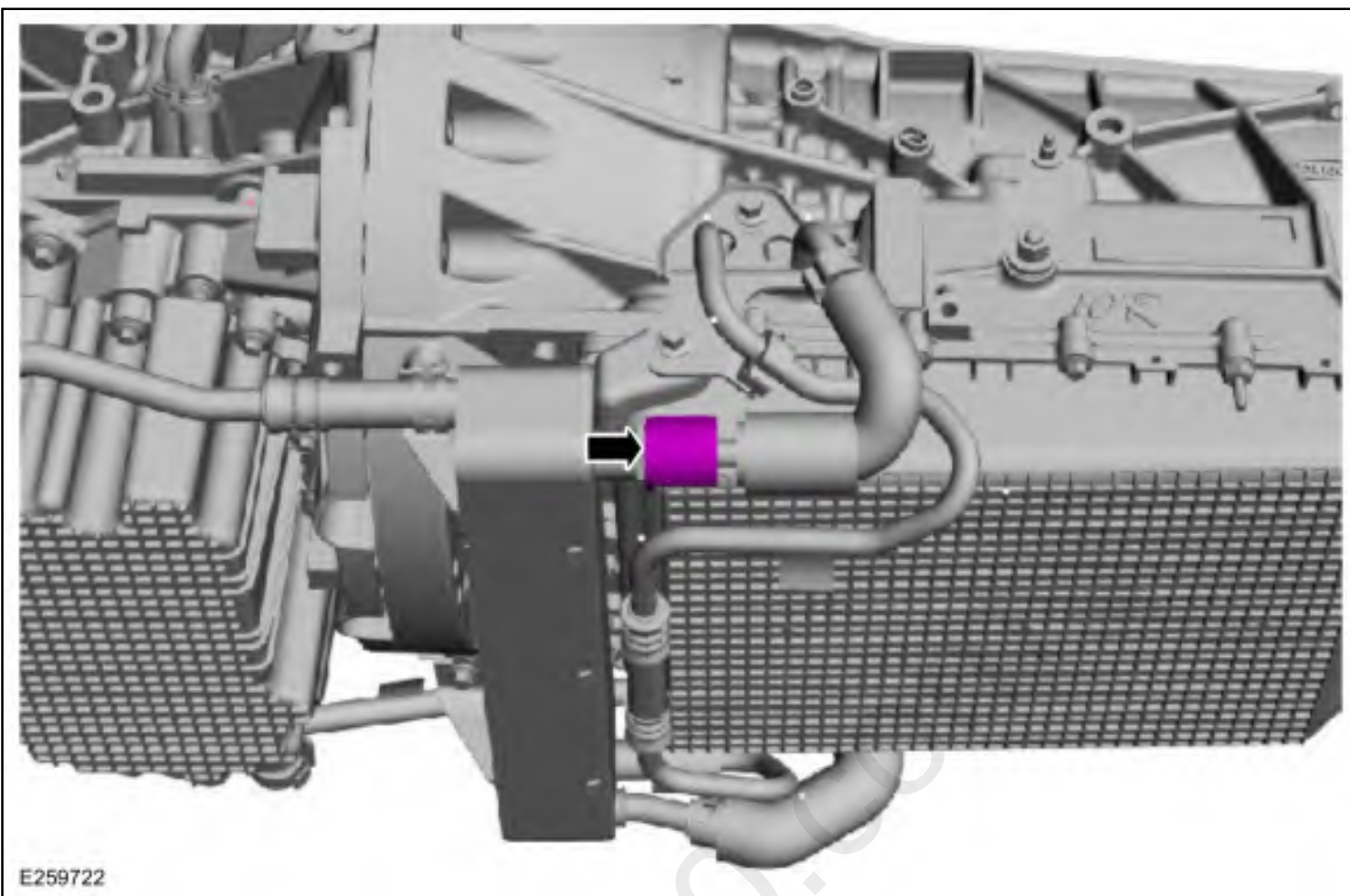
| Name                                                            | Specification            |
|-----------------------------------------------------------------|--------------------------|
| Motorcraft® MERCON® ULV Automatic Transmission Fluid XT-12-QULV | MERCON® ULV WSS-M2C949-A |

## Removal

1. With the vehicle in N, position it on a hoist.  
Refer to: [Jacking and Lifting - Overview](#) (100-02 Jacking and Lifting, Description and Operation).
2. Position the transmission fluid cooler inlet tube heat shield aside.



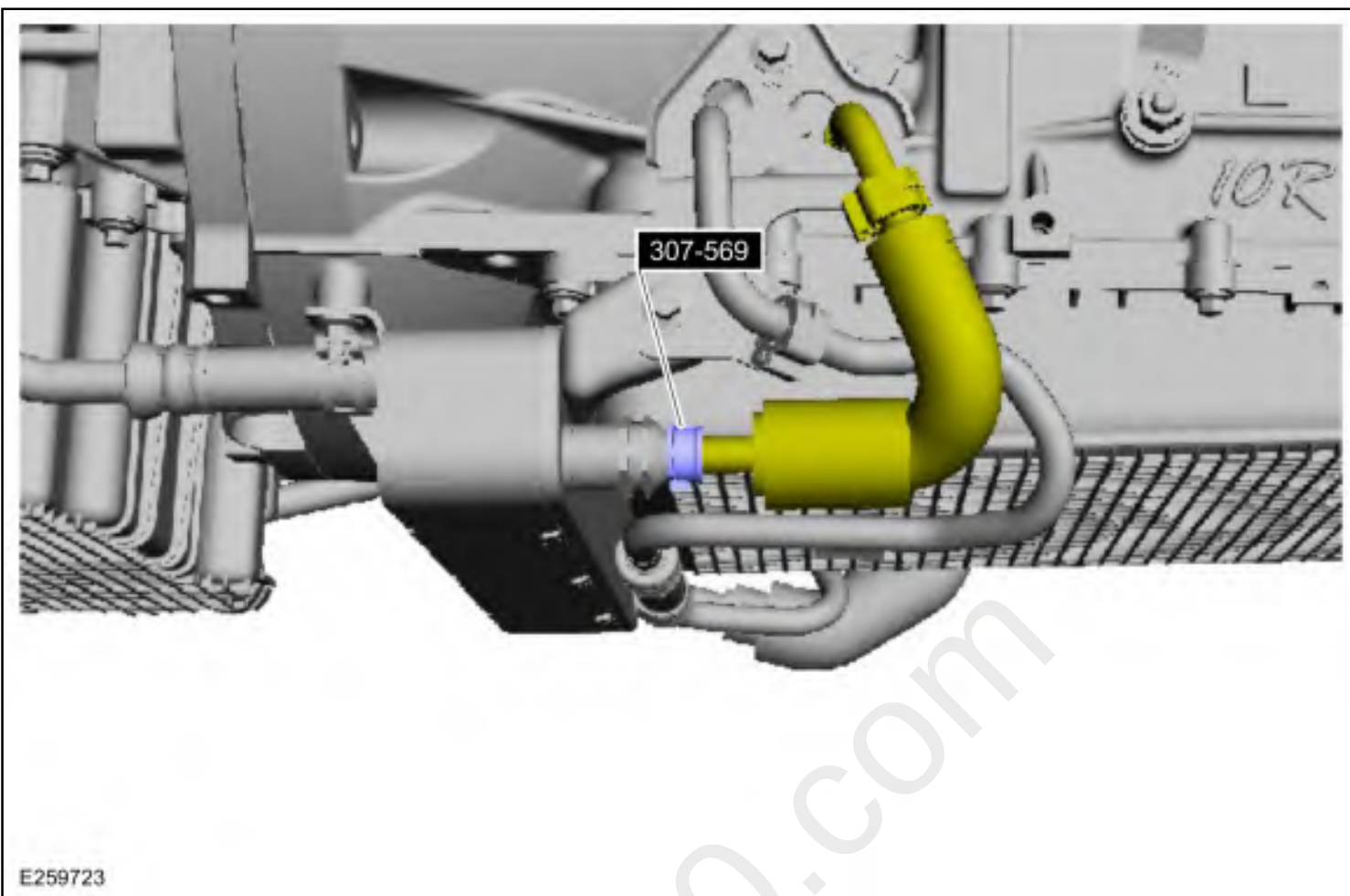
3. Remove the transmission fluid cooler inlet tube secondary latch.



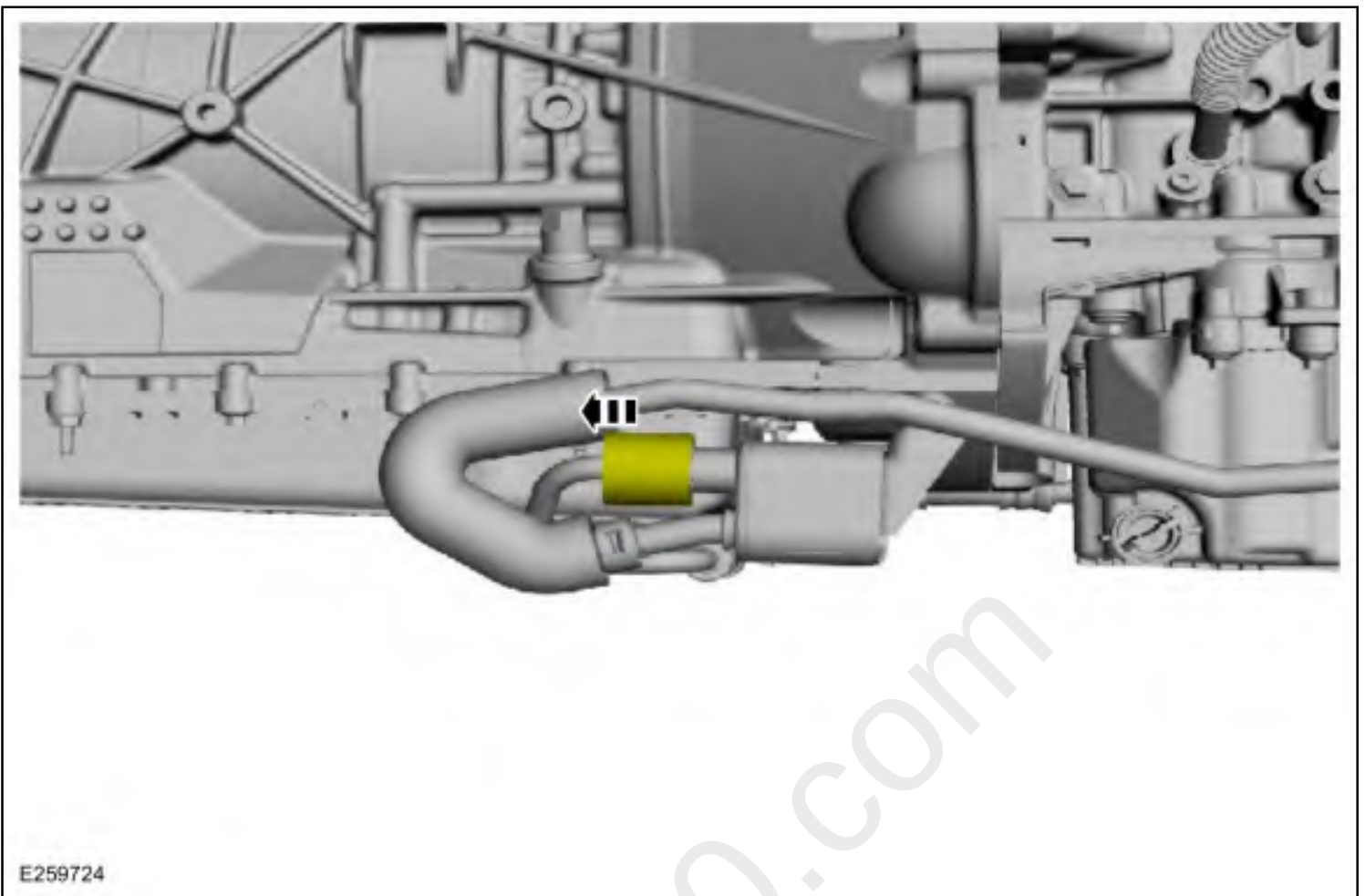
4. **NOTE:** *Be prepared to collect escaping fluid.*

Using the special tool, disconnect the transmission fluid cooler inlet tube from the transmission fluid cooler.

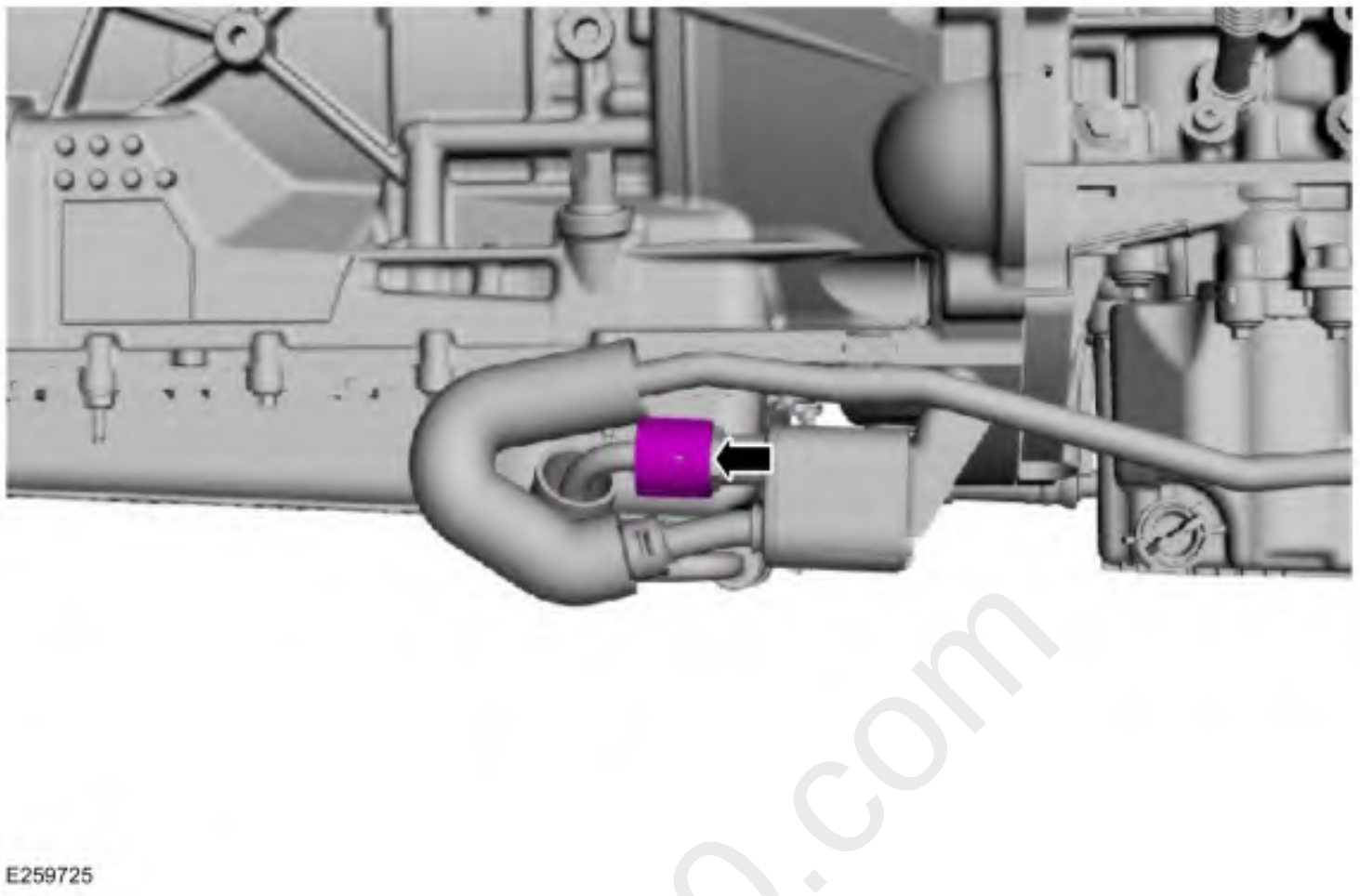
Use Special Service Tool: 307-569 Disconnect Tool TOC Line (1/2).



5. Position the transmission fluid cooler outlet tube heat shield aside.



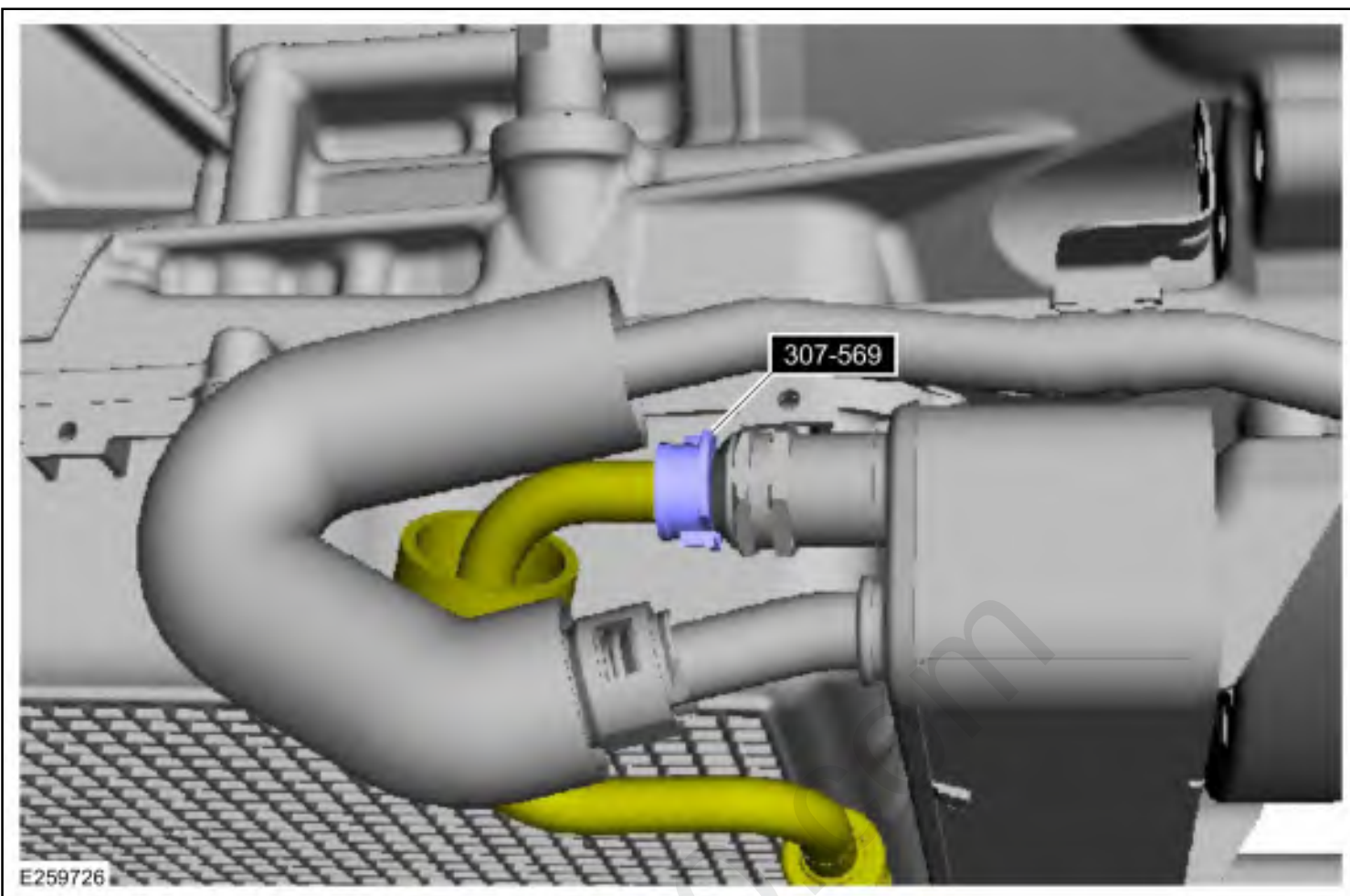
6. Remove the transmission fluid cooler outlet tube secondary latch.



7. **NOTE:** *Be prepared to collect escaping fluid.*

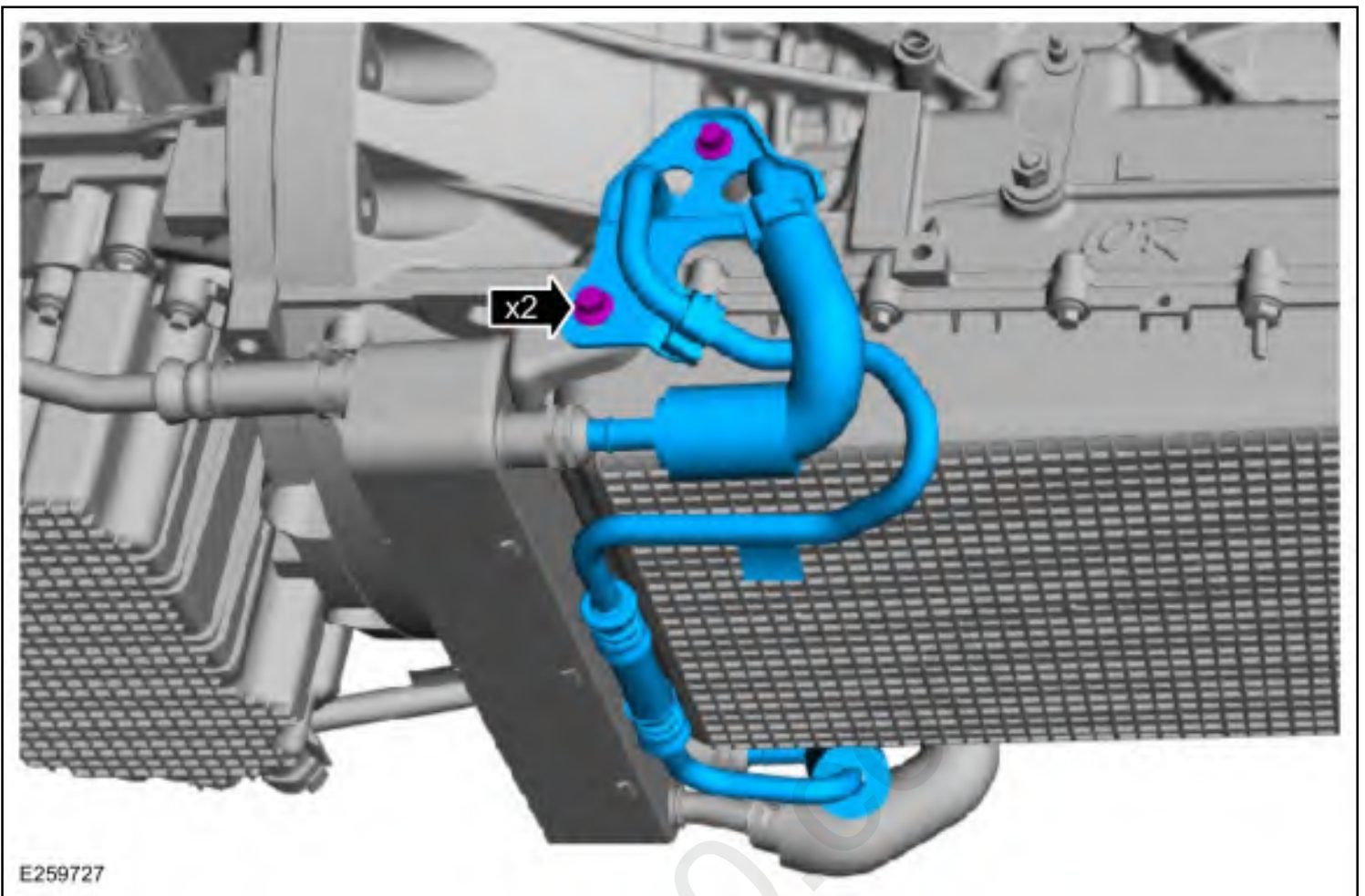
Using the special tool, disconnect the transmission fluid cooler outlet tube from the transmission fluid cooler.

Use Special Service Tool: 307-569 Disconnect Tool TOC Line (1/2).

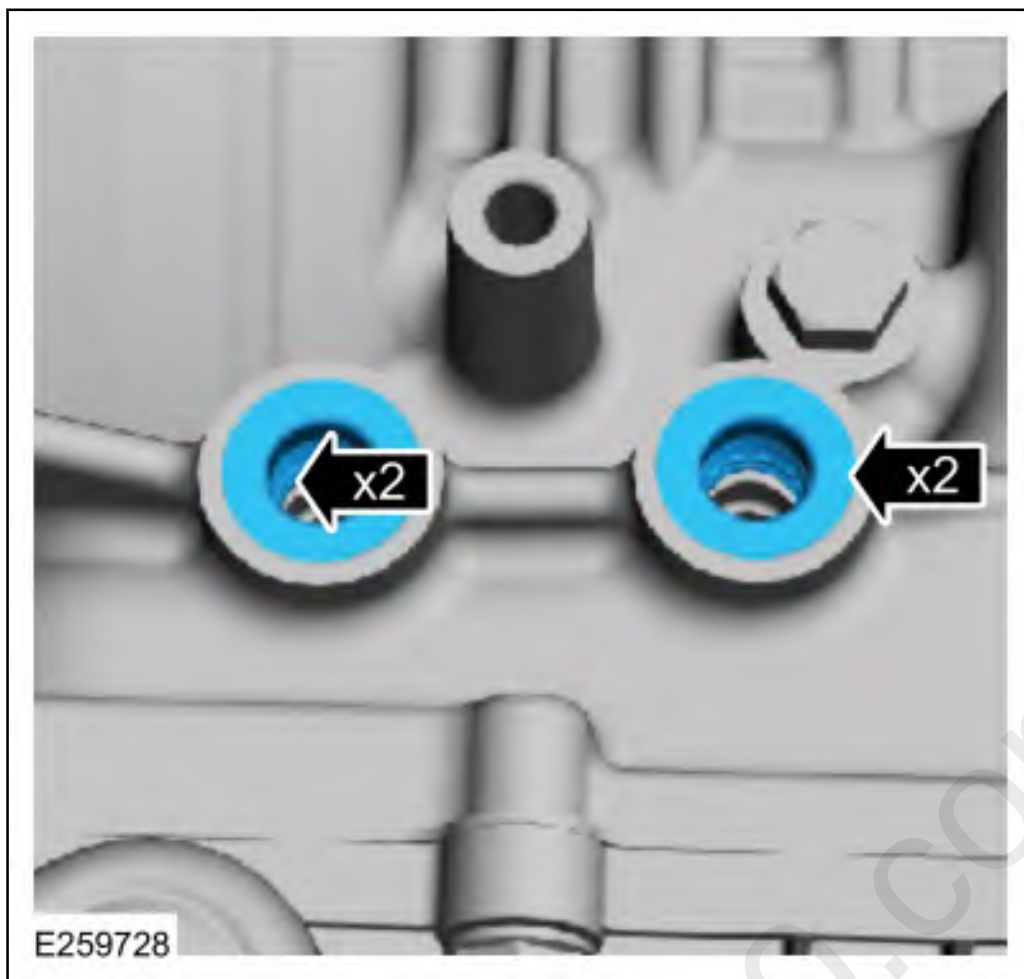


8. **NOTE:** *Be prepared to collect escaping fluid.*

Remove the bolts and the transmission fluid cooler tubes.



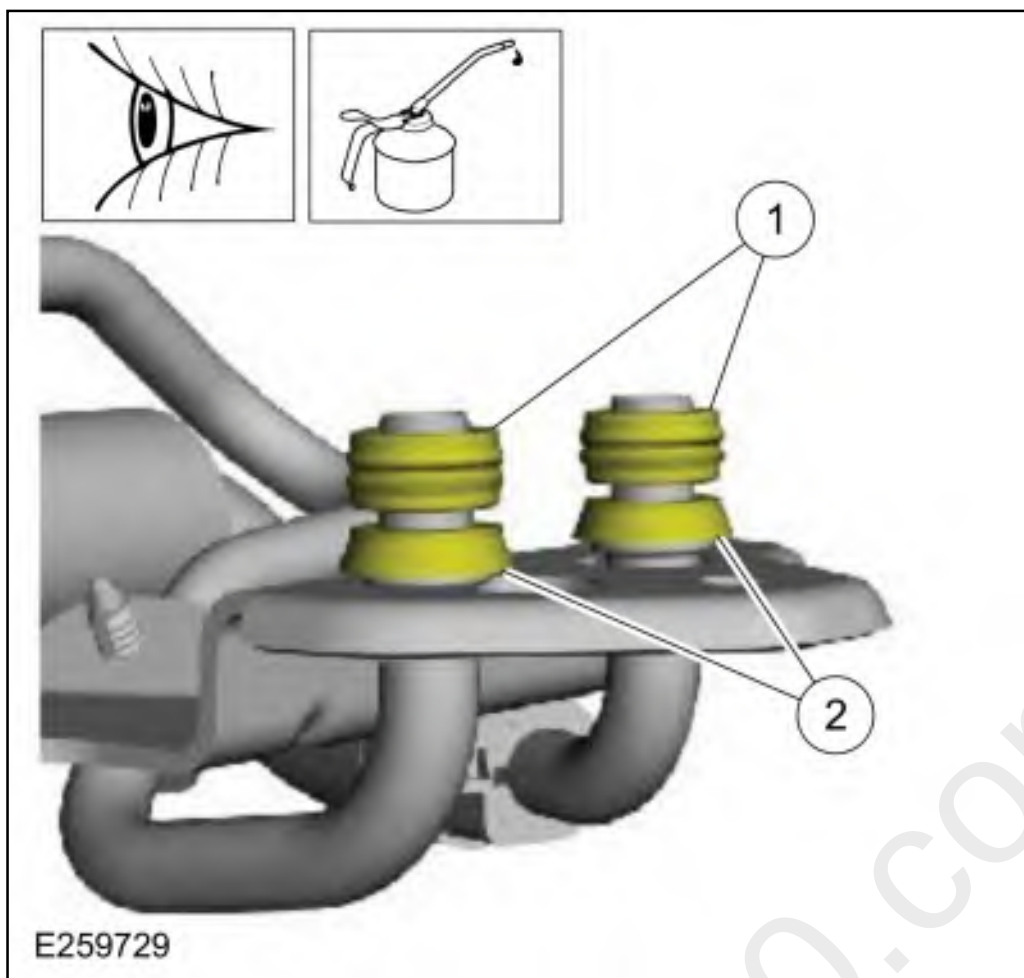
9. Inspect the transmission to be sure the transmission fluid tube seals and backing rings were removed with the transmission fluid tubes and are not stuck in the transmission. If the transmission fluid tube seals or backing rings are stuck in the transmission, remove the seals and backing rings.



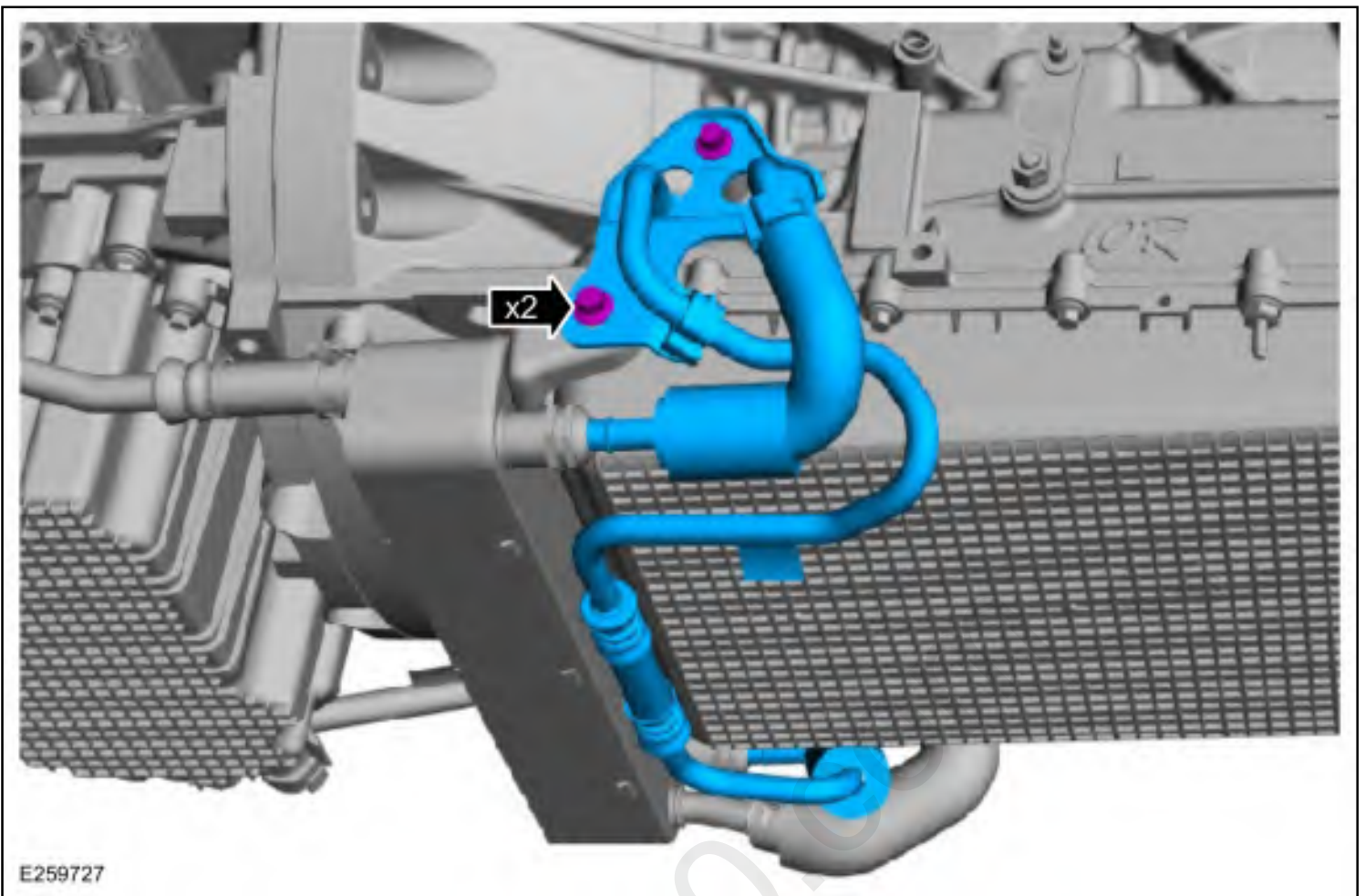
## Installation

1. Inspect and lubricate the band seals and backing rings. Install new band seals and backing rings if necessary.
  1. Seal (7D285).
  2. Backing ring (7J324).

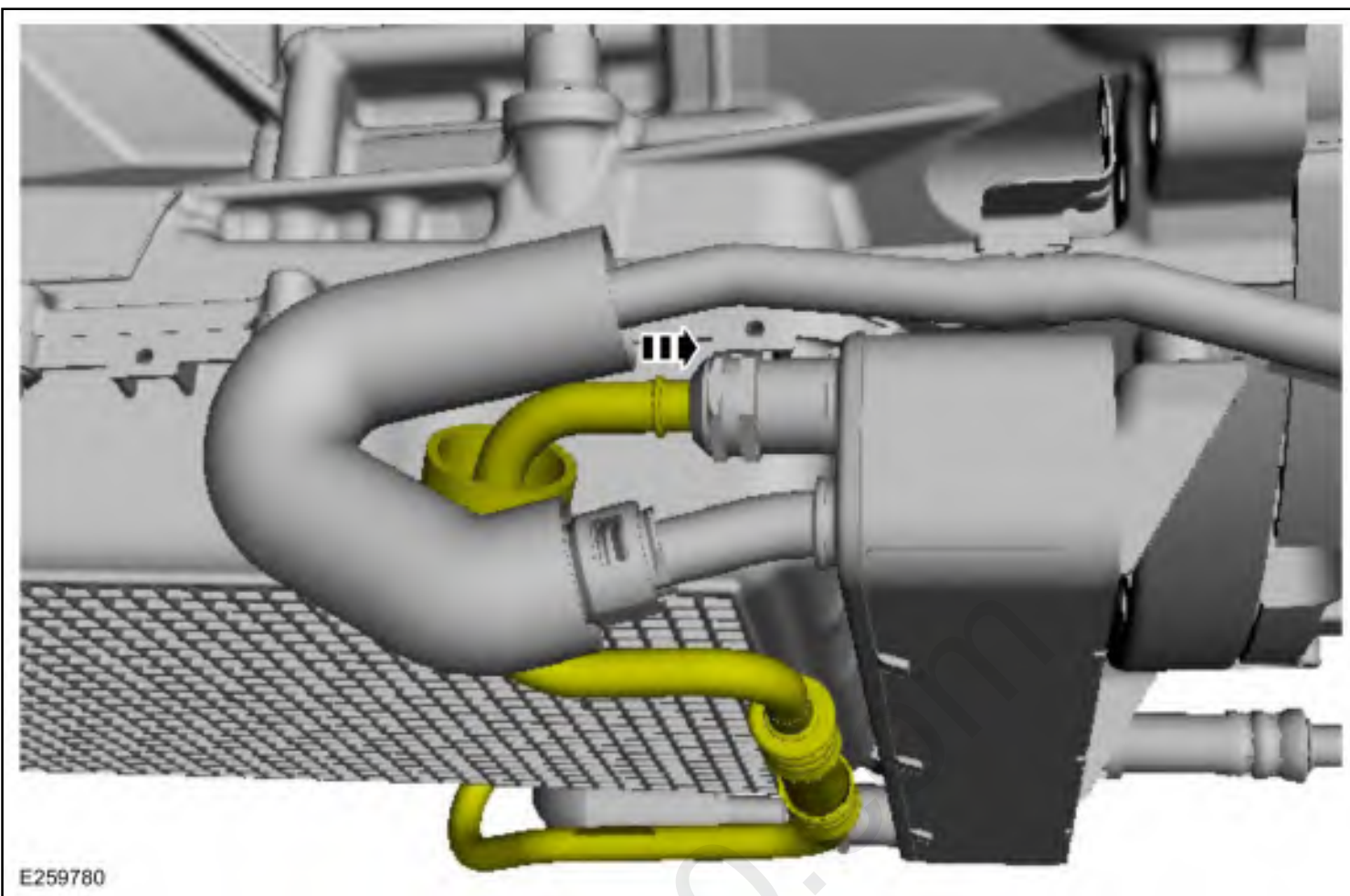
*Material: Motorcraft® MERCON® ULV Automatic Transmission Fluid / XT-12-QULV (MERCON® ULV) (WSS-M2C949-A)*



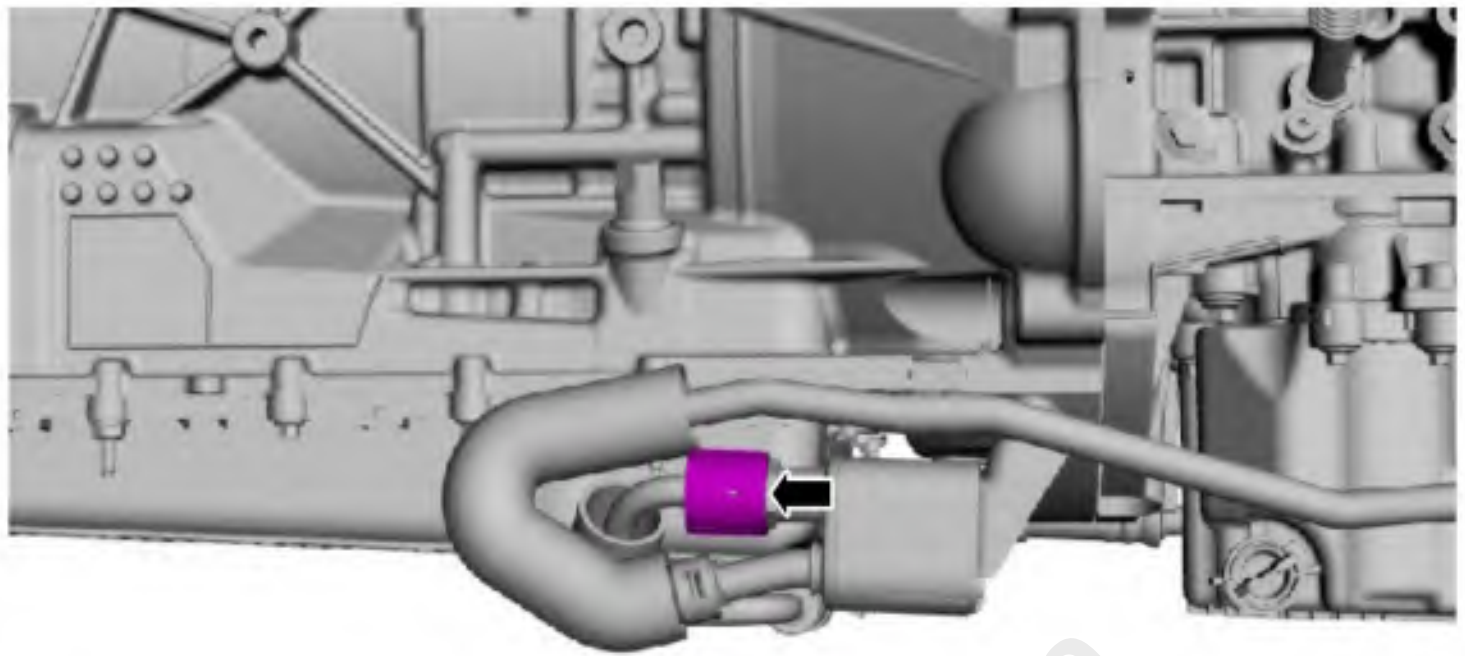
2. Install the transmission fluid cooler tubes and the bolts.  
*Torque: 22 lb.ft (30 Nm)*



3. Connect the transmission fluid cooler outlet tube to the transmission fluid cooler.



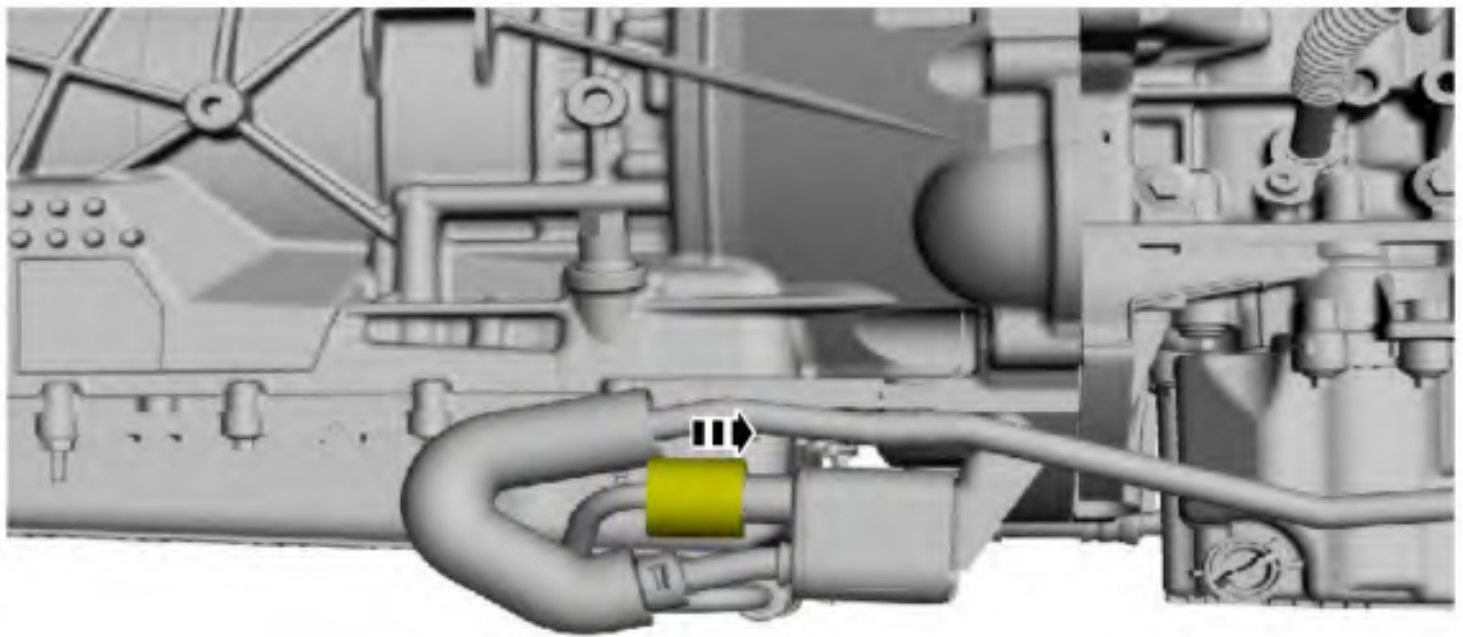
4. Install the transmission fluid cooler outlet tube secondary latch.



E259725



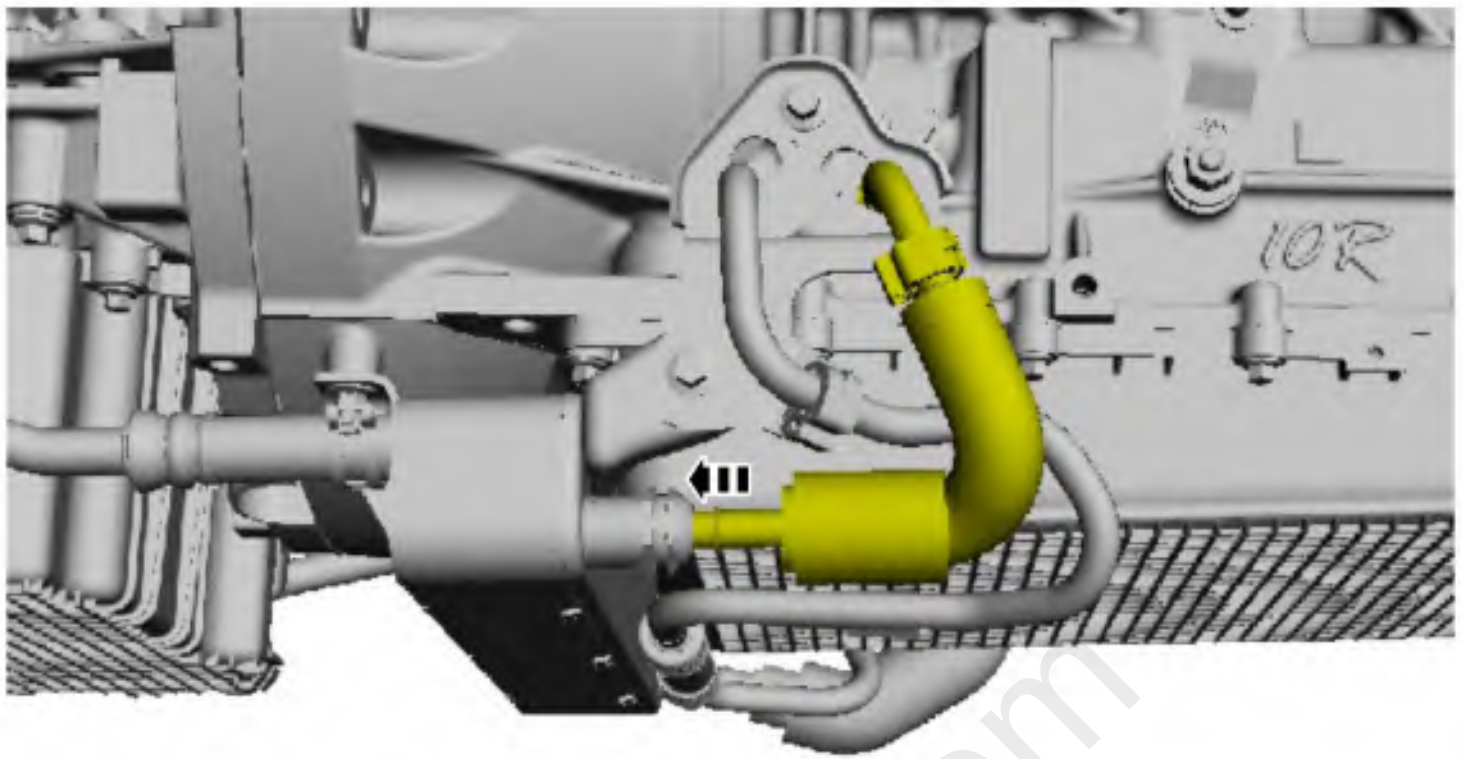
5. Position the transmission fluid cooler outlet tube heat shield.



E259781



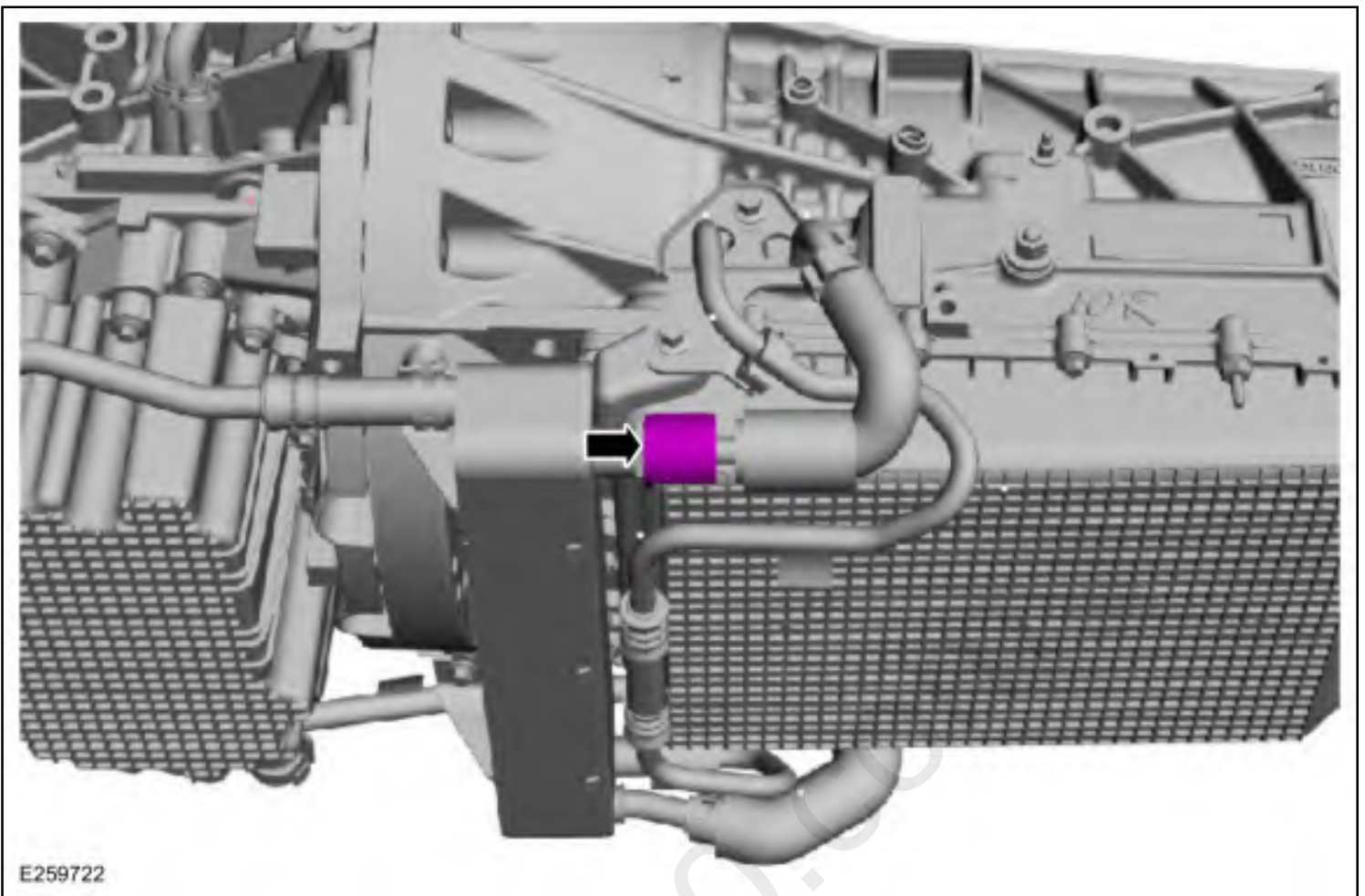
6. Connect the transmission fluid cooler inlet tube to the transmission fluid cooler.



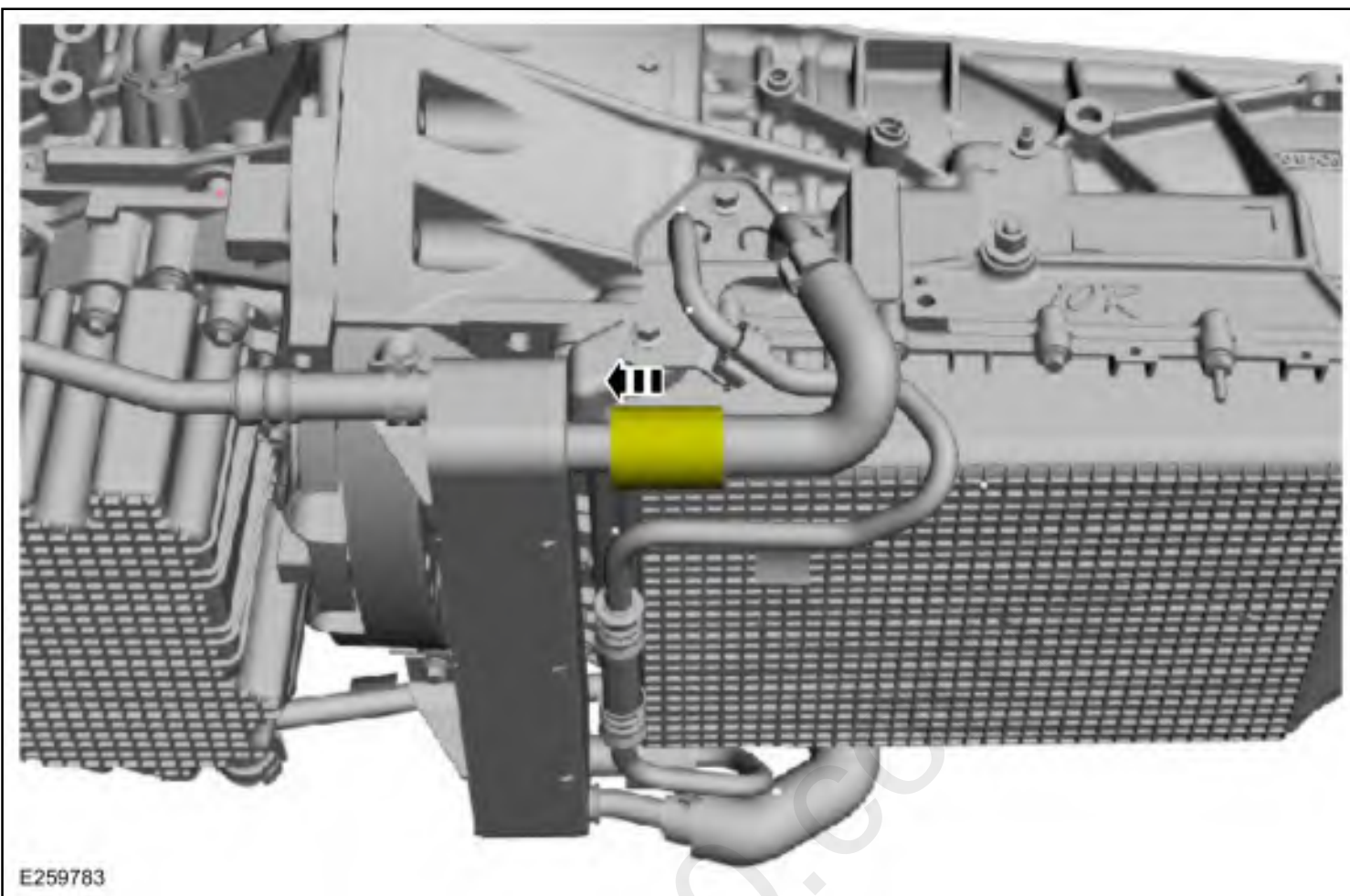
E259782



7. Install the transmission fluid cooler inlet tube secondary latch.



8. Position the transmission fluid cooler inlet tube heat shield.



9. Check the transmission fluid level and adjust as necessary.

Refer to: [Transmission Fluid Level Check](#) (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures).