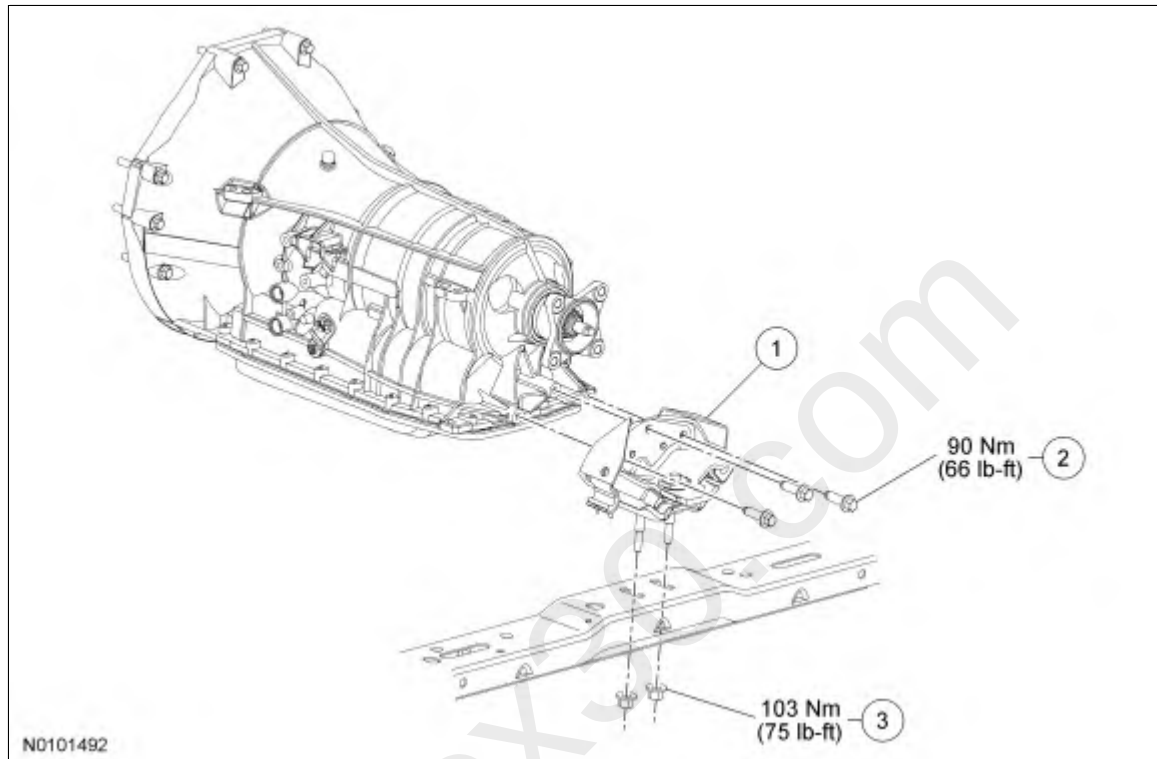


SECTION 307-01: Automatic Transaxle/Transmission — 6R80
IN-VEHICLE REPAIR

2014 F-150 Workshop Manual
Procedure revision date: 10/25/2013

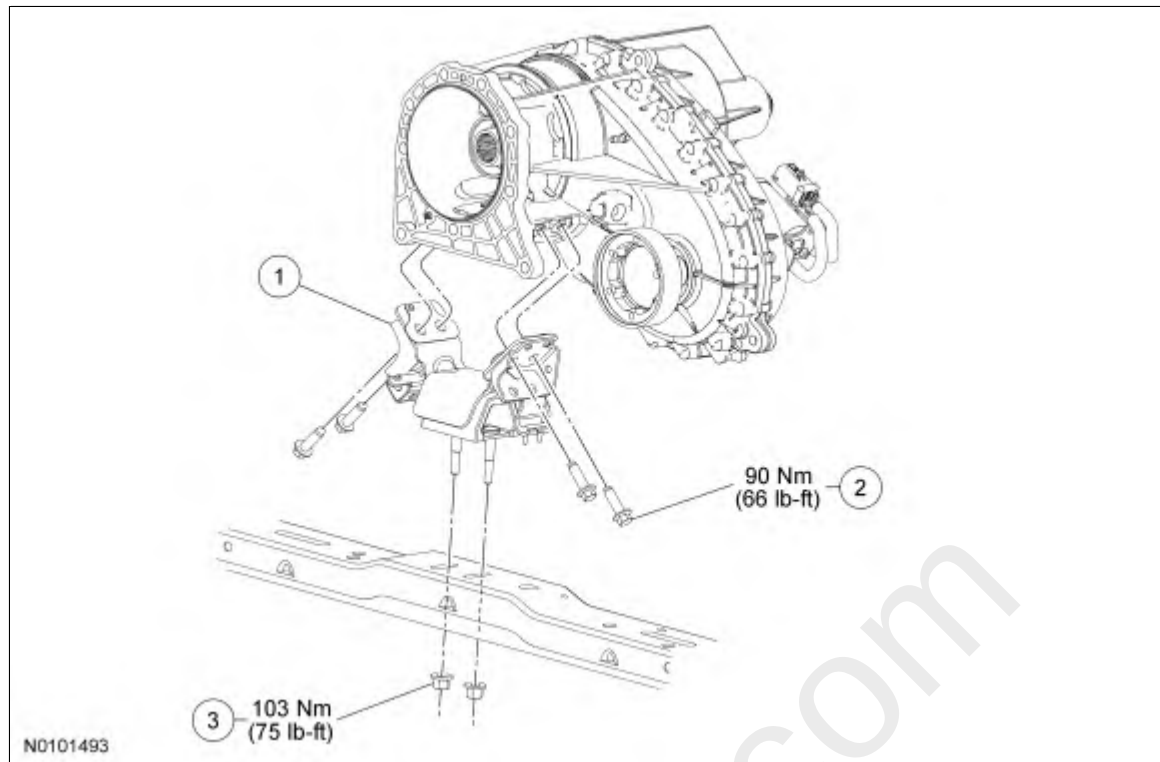
Transmission Insulator and Retainer

Transmission Insulator and Retainer Rear Wheel Drive (RWD)



Item	Part Number	Description
1	6068	Transmission insulator and retainer
2	W713728	Transmission insulator and retainer bolt
3	N621945	Transmission insulator and retainer nut

Transmission Insulator and Retainer 4WD

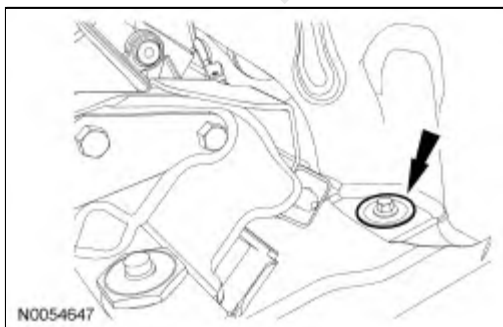


Item	Part Number	Description
1	6068	Transmission insulator and retainer
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3	N621945	Transmission insulator and retainer nut

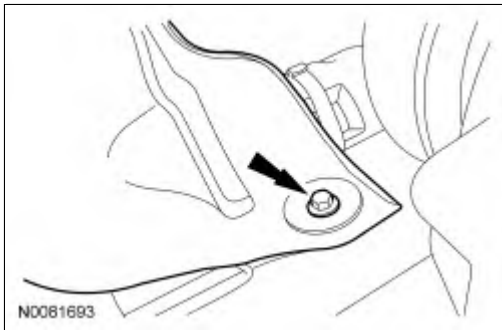
Removal

All vehicles

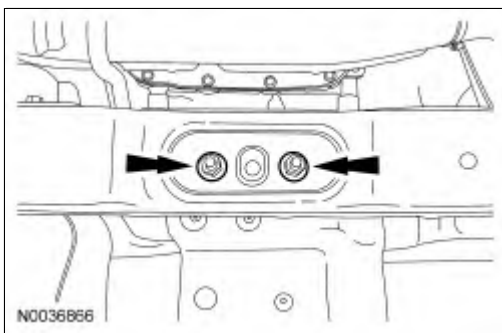
1. With the vehicle in NEUTRAL, position it on a hoist. Refer to [Section 100-02](#).
2. Remove the RH exhaust heat shield bolt from the transmission support crossmember.



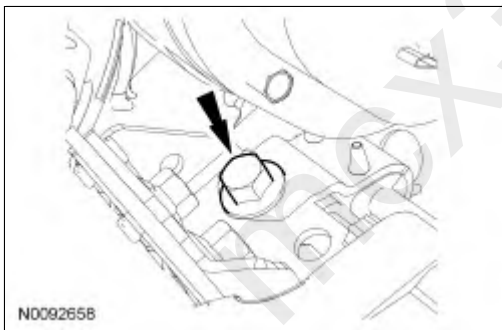
3. Remove the LH exhaust heat shield bolt from the transmission support crossmember.

**RWD vehicles**

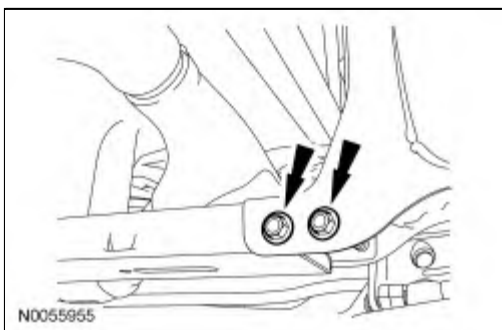
4. Remove the 2 transmission insulator and retainer nuts.



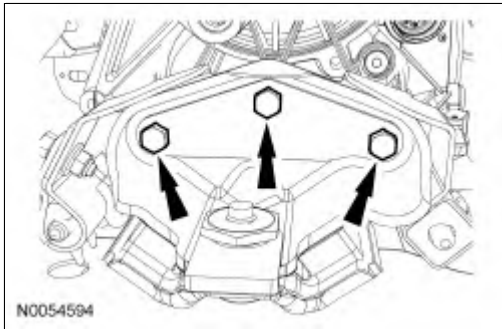
5. Remove the LH isolator cap bolt.



6. Position a high-lift transmission jack under the transmission.
7. Remove and discard the 4 transmission support crossmember nuts and bolts (2 each side) and remove the transmission support crossmember.

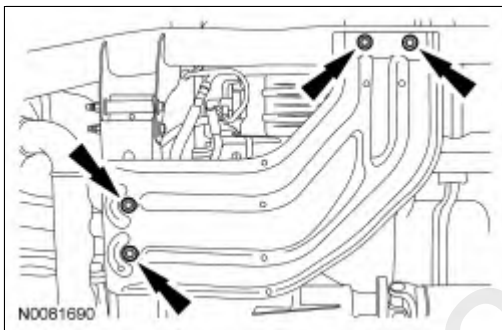


8. Remove the 3 transmission insulator and retainer bolts and remove the transmission insulator and retainer.

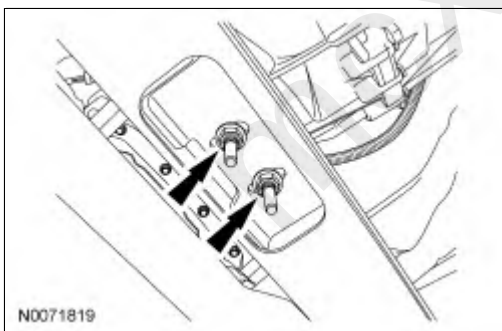


4WD vehicles

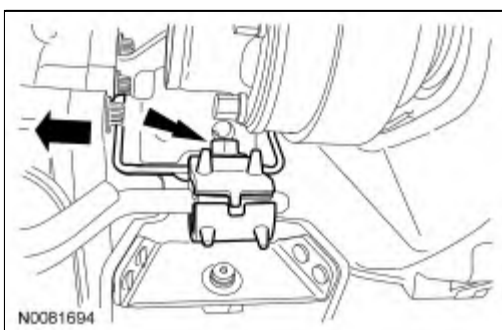
9. If equipped, remove the 4 skid plate bolts and remove the skid plate.



10. Remove the 2 transmission insulator and retainer nuts.

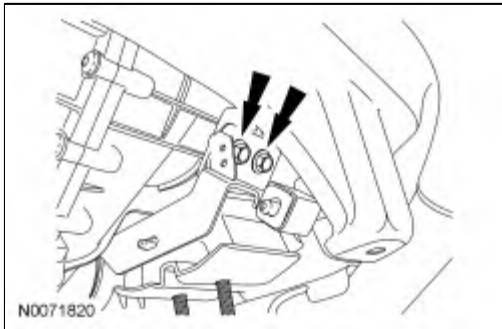


11. Remove the LH insulator cap bolt.

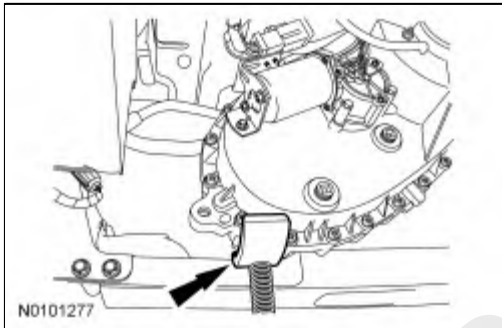


12. **NOTE:** Right side shown, left side similar. Transmission crossmember removed for clarity.

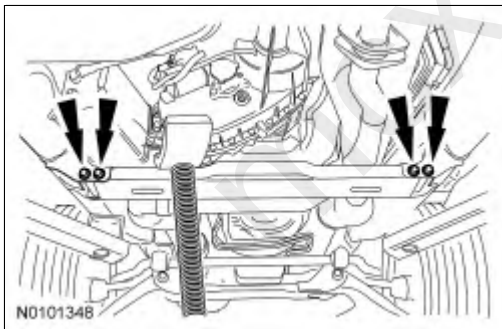
Remove the 4 transmission insulator and retainer bolts.



13. Support the transfer case.



14. Remove and discard the 4 transmission support crossmember nuts and bolts.

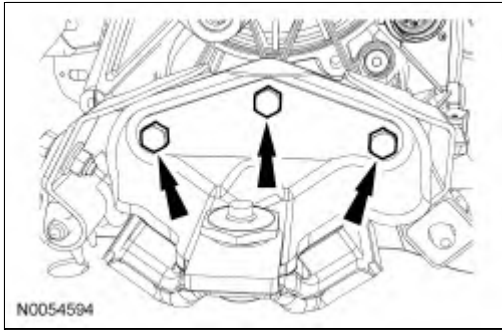


15. Remove the transmission insulator and retainer.

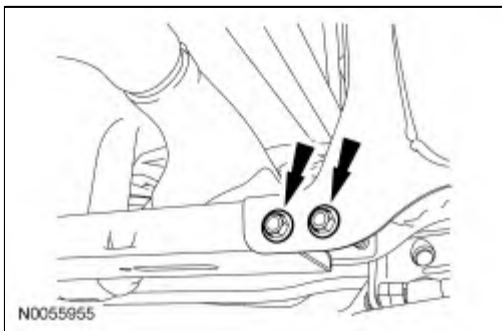
Installation

RWD vehicles

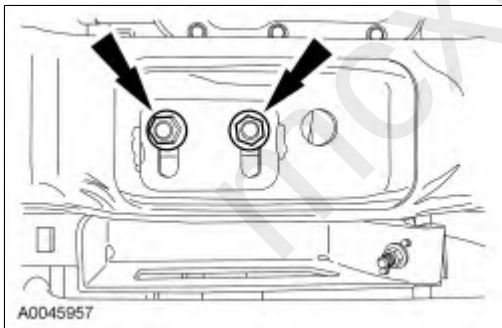
1. Install the transmission insulator and retainer and the 3 bolts.
 - Tighten to 90 Nm (66 lb-ft).



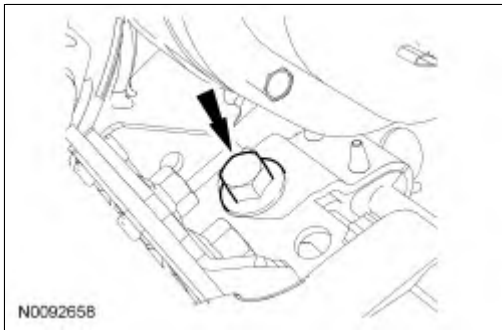
2. Install the transmission support crossmember and the 4 new transmission support crossmember nuts and bolts (2 each side).
 - Tighten to 90 Nm (66 lb-ft).



3. Lower the transmission onto the transmission support crossmember and install the 2 transmission insulator and retainer nuts.
 - Tighten to 103 Nm (75 lb-ft).

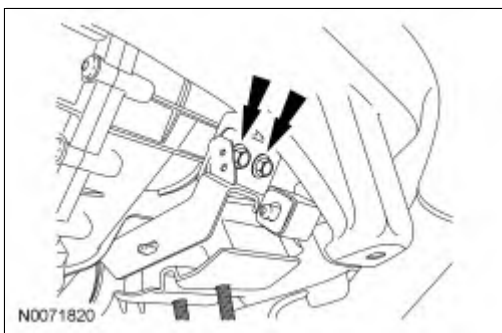


4. Install the LH isolator cap bolt.
 - Tighten to 35 Nm (26 lb-ft).

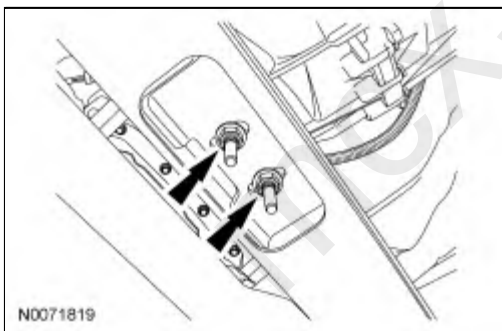


4WD vehicles

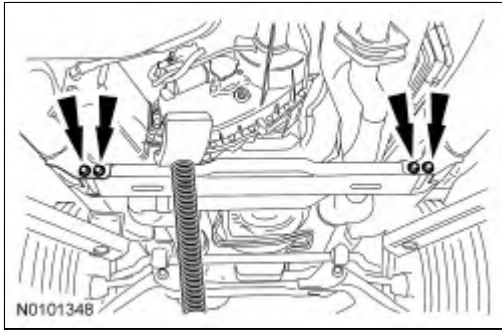
5. Loosely install the transmission insulator and retainer and the 4 bolts.



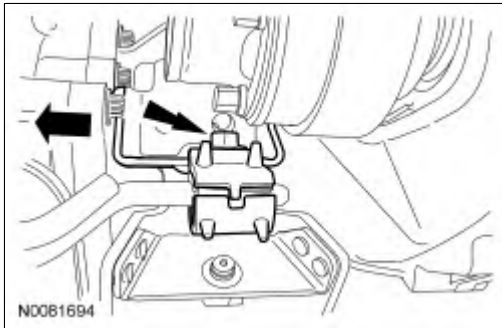
6. Position the transmission support crossmember and loosely install the 2 transmission insulator and retainer nuts.



7. Install the 4 new transmission support crossmember bolts and nuts.
 - Tighten the transmission insulator and retainer bolts to 90 Nm (66 lb-ft).
 - Tighten the transmission support crossmember bolts and nuts to 90 Nm (66 lb-ft).
 - Tighten the transmission insulator and retainer nuts to 103 Nm (75 lb-ft).

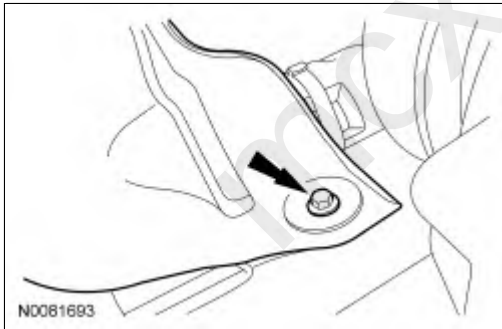


8. Install the bolt for the LH isolator cap bolt.
 - Tighten to 35 Nm (26 lb-ft).

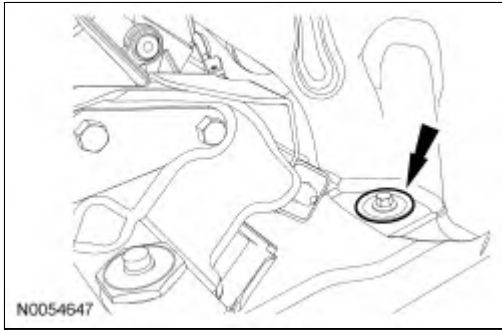


All vehicles

9. Install the LH exhaust heat shield bolt to the transmission support crossmember.
 - Tighten to 15 Nm (133 lb-in).



10. Install the RH exhaust heat shield bolt to the transmission support crossmember.
 - Tighten to 15 Nm (133 lb-in).



4WD vehicles

11. If equipped, install the skid plate and the 4 skid plate bolts.
 - Tighten to 40 Nm (30 lb-ft).

