

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

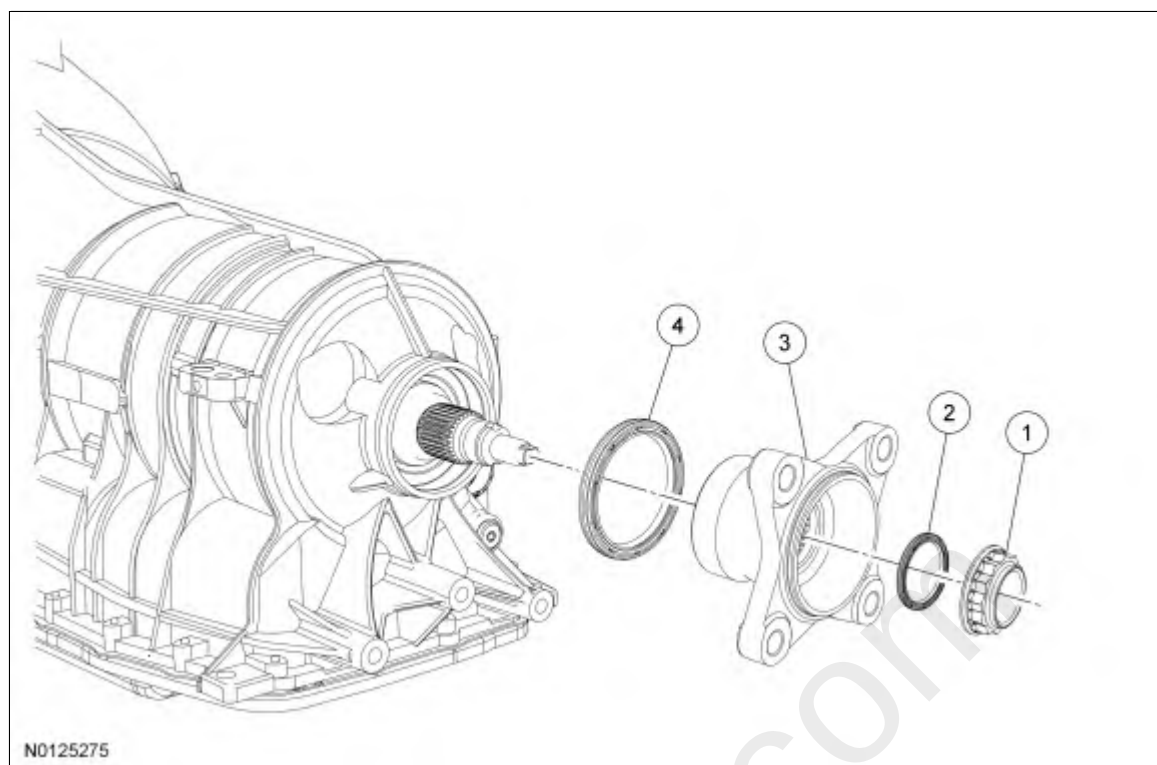
2014 F-150 Workshop Manual
Procedure revision date: 10/25/2013

Output Shaft Seal

Special Tool(s)

 E173278	Installer, Output Seal (4X2) 307-715
 ST2216-A	Installer, Spindle/Axle Shaft 205-199 (T83T-3132-A1)
 ST3059-A	Installer, 6R80 Rear Seal 4X4 307-637
 ST3060-A	Installer, 6R80 Rear Seal 4X2 307-638
 ST2381-A	Remover, Input Shaft Oil Seal 308-375
 ST1187-A	Slide Hammer 100-001 (T50T-100-A)

NOTE: Early build RWD shown, late build RWD and 4WD similar.



N0125275

Item	Part Number	Description
1	7045	Output shaft flange retaining nut <u>RWD</u>
2	7052	Output shaft flange seal <u>RWD</u>
3	—	Output shaft flange (model dependent) <u>RWD</u>
4	7052	Output shaft seal (model dependent)

Removal

All vehicles

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

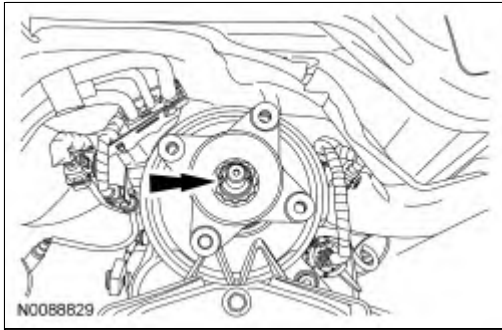
All Rear Wheel Drive (RWD) vehicles

2. Remove the rear driveshaft. Refer to [Section 205-01](#).

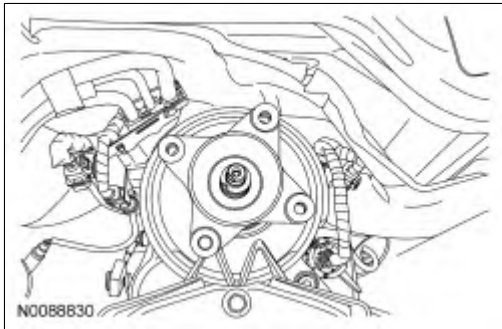
Early Build Rear Wheel Drive (RWD) vehicles

3. **NOTE:** The output shaft flange retaining nut has been staked to prevent it from coming loose. Prior to removing the nut, remove the stake to prevent damage to the output shaft.

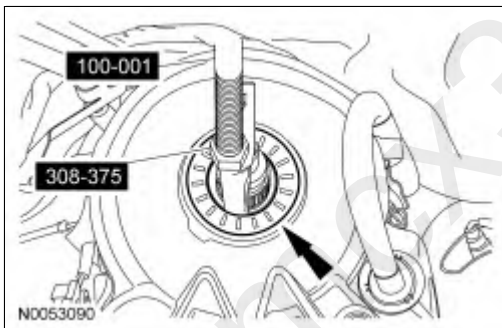
Remove and discard the output shaft flange retaining nut.



4. Remove the output shaft flange seal and the output shaft flange.

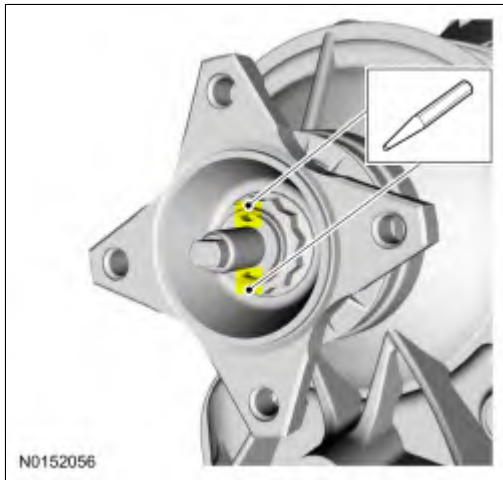


5. Using the Input Shaft Oil Seal Remover and Slide Hammer, remove the output shaft seal.



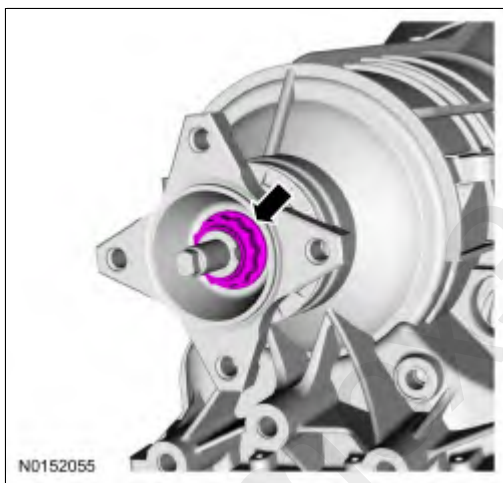
Late Build Rear Wheel Drive (RWD) vehicles

6. Remove the stakes from the output shaft flange retaining nut.

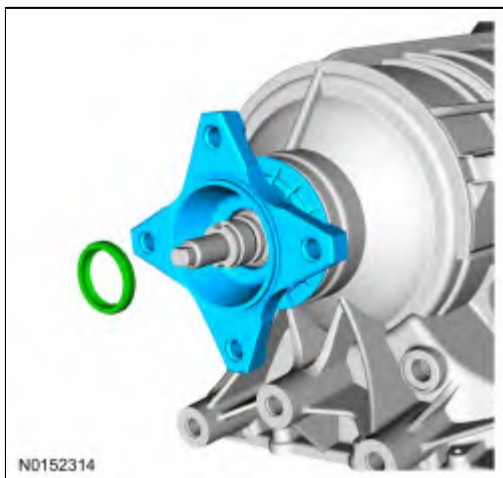


7. **NOTICE:** The output shaft flange retaining nut has been staked to prevent it from coming loose. Prior to removing the nut, remove the stake to prevent damage to the output shaft.

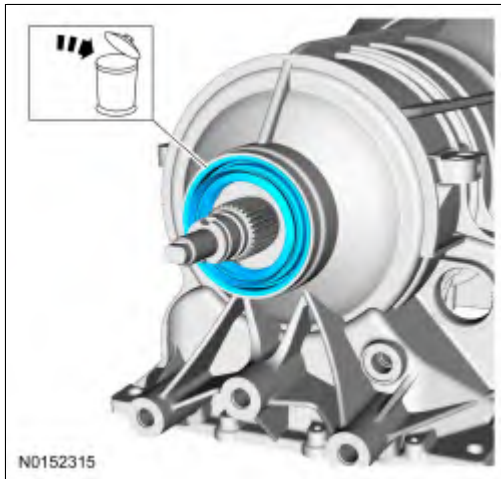
Remove and discard the output shaft flange retaining nut.



8. Remove the output shaft flange seal and the output shaft flange.

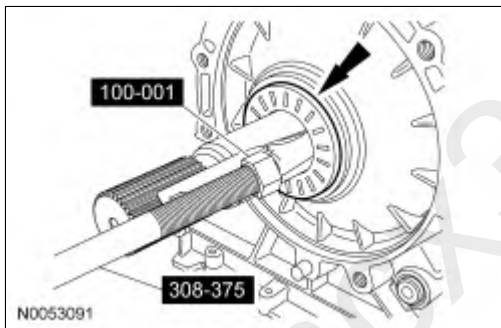


9. Remove and discard the output shaft seal.



Four-Wheel Drive (4WD) vehicles

10. Remove the transfer case. Refer to [Section 308-07B](#).
11. Using the Input Shaft Oil Seal Remover and Slide Hammer, remove the output shaft seal.



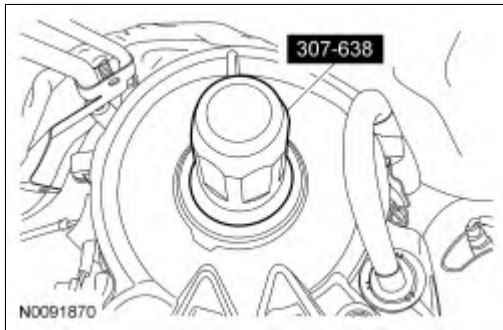
Installation

Early Build Rear Wheel Drive (RWD) vehicles

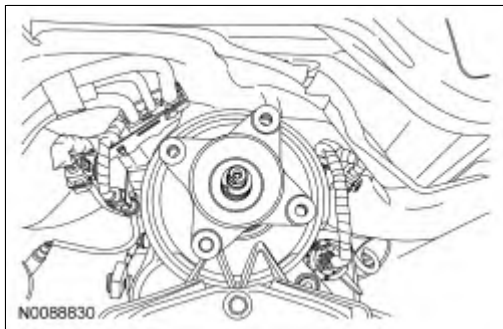
1. Position a new output shaft seal on the 6R80 Rear Seal 4X2 Installer.



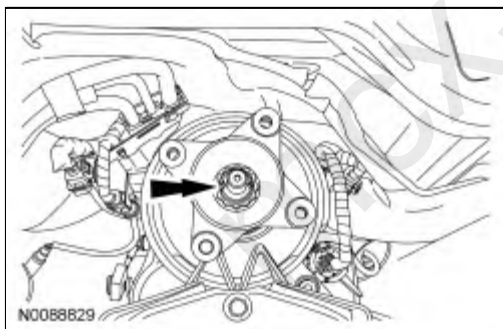
2. Using the 6R80 Rear Seal 4X2 Installer, install the output shaft seal.



3. Install the output shaft flange.

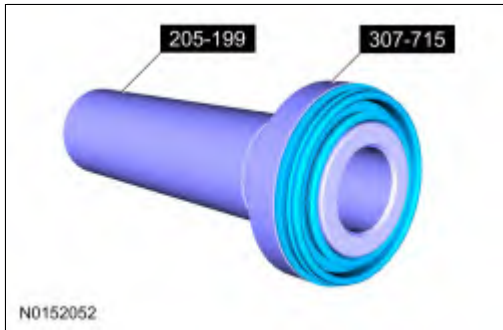


4. Install the output shaft flange seal and a new output shaft flange nut.
 - Tighten to 80 Nm (59 lb-ft).
 - After installing the new output shaft flange nut, it must be staked at the slots to prevent it from coming loose.

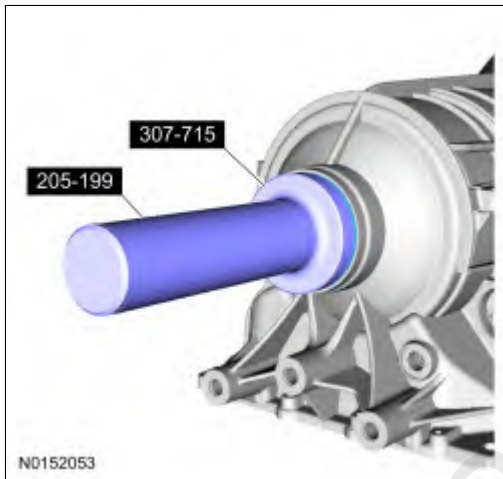


Late Build Rear Wheel Drive (RWD) vehicles

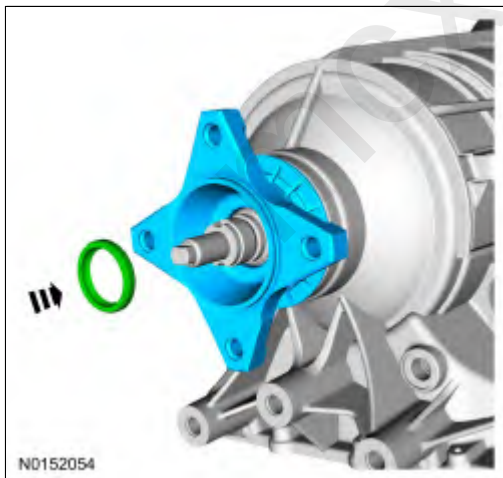
5. Position a new output shaft seal on the Output Seal (4X2) Installer and Spindle/Axle Shaft Installer.



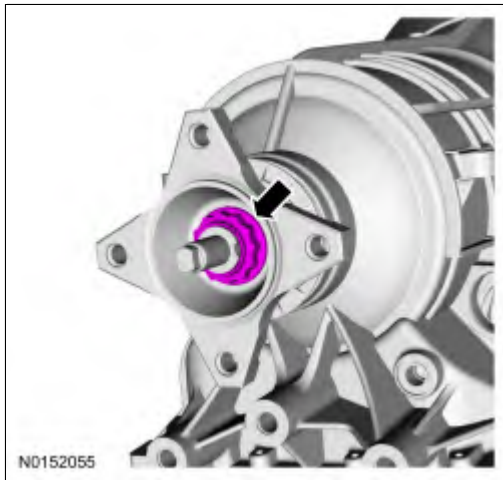
6. Using the Output Seal (4X2) Installer and Spindle/Axle Shaft Installer, install the output shaft seal.



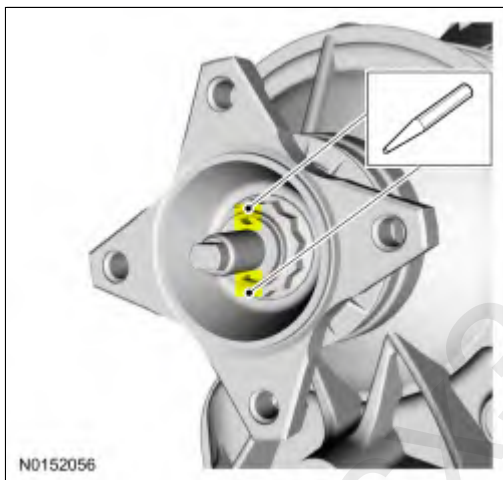
7. Install the output shaft flange and the output shaft flange seal.



8. Install the new output shaft flange retaining nut.
- Tighten to 80 Nm (59 lb-ft).



9. After installing the output shaft flange retaining nut, stake the slots to prevent it from coming loose.

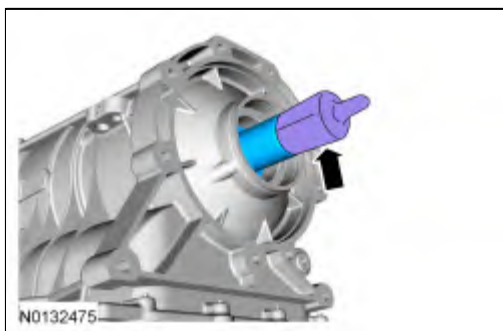


All Rear Wheel Drive (RWD) vehicles

10. Install the rear driveshaft. Refer to [Section 205-01](#).

Four-Wheel Drive (4WD) vehicles

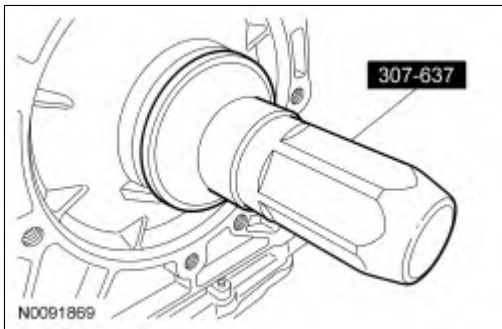
11. Install the seal protector provided with the new output shaft seal on the output shaft.



12. Slide the output shaft seal over the output shaft seal protector onto the output shaft. Remove the output shaft seal protector.



13. Using the 6R80 Rear Seal 4X4 Installer, install a new output shaft seal.



14. Install the transfer case. Refer to [Section 308-07B](#).

All vehicles

15. Fill and check the transmission fluid. Refer to [Transmission Fluid Level Check](#).
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