



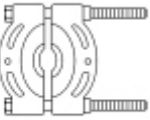

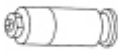


## Countershaft Bearing

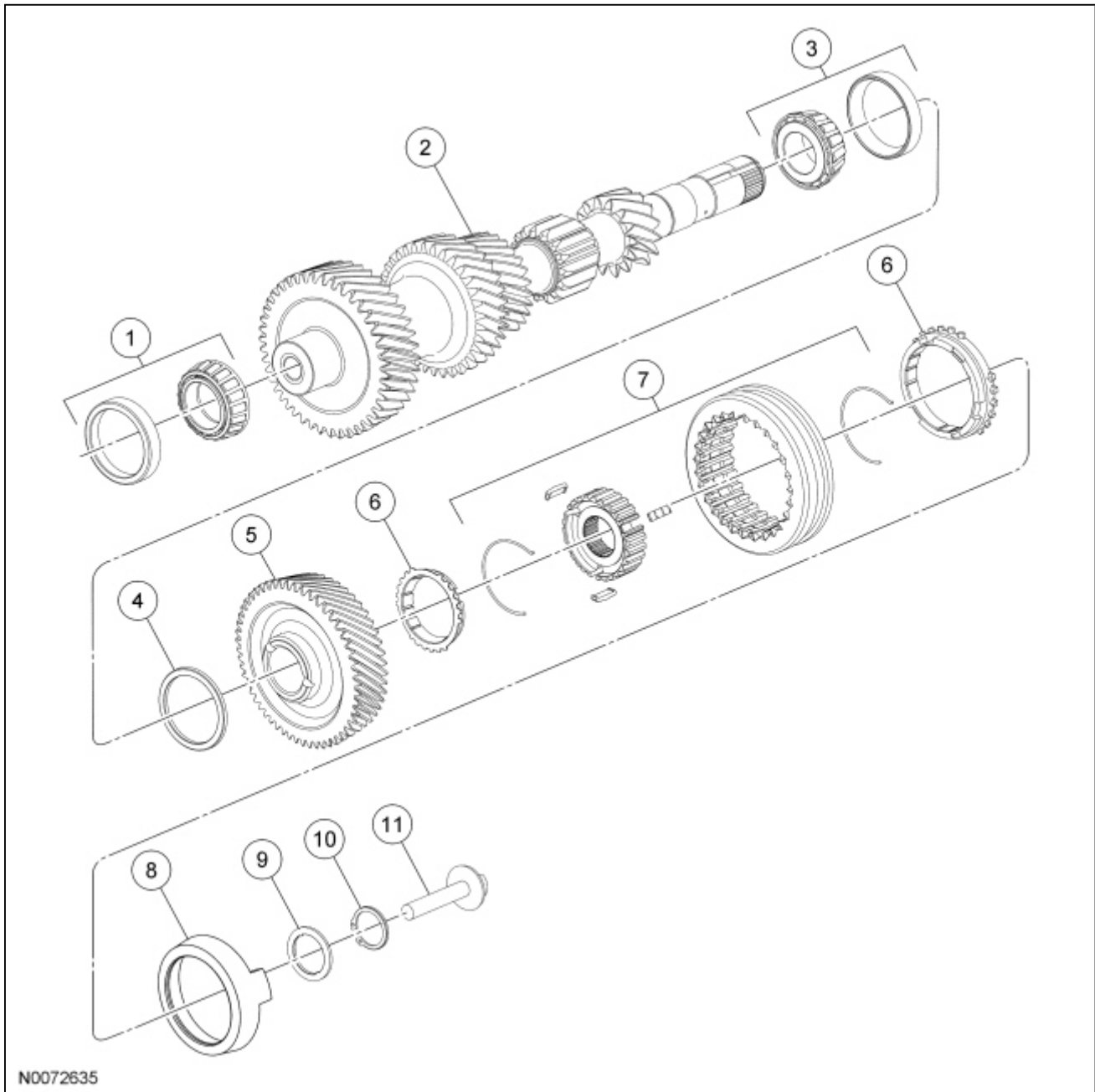
### Special Tool(s)

 <p>ST2356-A</p>	Installer, Bearing 308-061 (T77J-7025-L)
 <p>ST2359-A</p>	Installer, Drive Pinion Bearing Cone 205-011 (T57L-4621-B)
 <p>ST2358-A</p>	Installer, Input Shaft Bearing 308-062 (T77J-7025-M)
 <p>ST2357-A</p>	Installer, Mainshaft Front Bearing 308-081 (T82T-7003-DH)
 <p>ST1895-A</p>	Remover, Drive Pinion Bearing Cone 205-D002 (D79L-4621-A) or equivalent
 <p>ST1303-A</p>	Remover/Installer, Bearing Tube 308-024 (T75L-7025-B)
 <p>ST2147-A</p>	Remover/Installer, Bearing Tube 308-052 (T77J-7025-B)

### Material

Item	Specification
Threadlock and Sealer TA-25	WSK-M2G351-A5

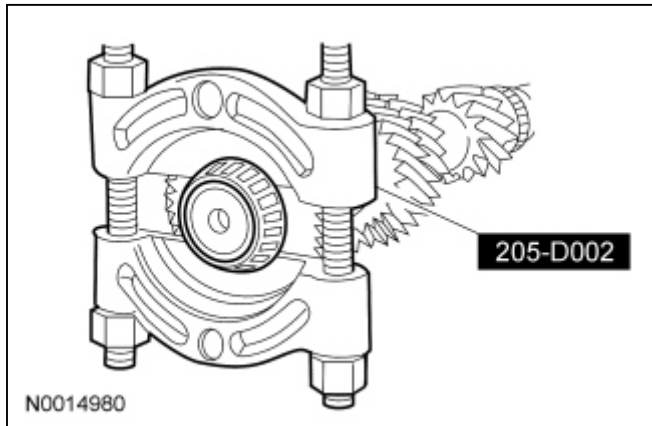
## Transmission Internal Components — Countershaft Disassembled View



Item	Part Number	Description
1	7F431	Countershaft front bearing and cup
2	7113	Countershaft
3	7F431	Countershaft rear bearing and cup
4	7L172	Countershaft rear bearing adjustment shim
5	7144	Countershaft 5th gear
6	7107	5th gear synchronizer blocking rings
7	7124	5th gear synchronizer assembly
8	7M000	Reverse brake ring
9	7G042	Thrust washer
10	7059	5th gear synchronizer retaining ring
11	7L276	Oil pick up funnel

## Disassembly

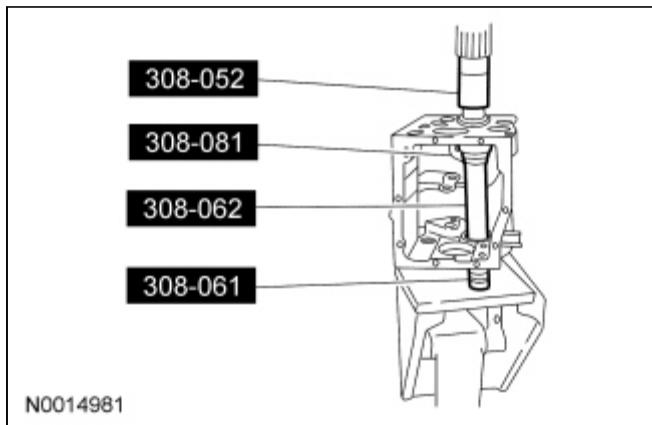
1. Using the Drive Pinion Bearing Cone Remover, press and remove the countershaft bearing from the countershaft.



2. **NOTICE:** Failure to correctly support the case during bearing race removal will result in permanent distortion of the case.

**NOTE:** Remove the front countershaft bearing cup if damaged, worn or a new countershaft bearing is being installed.

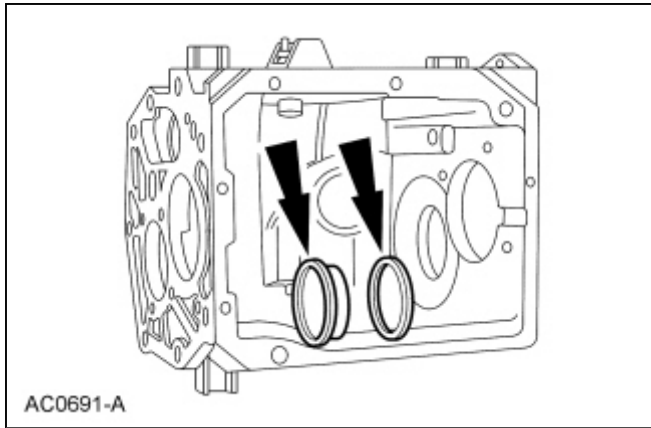
Using the Bearing Tube Remover/Installer, Input Shaft Bearing Installer, Mainshaft Front Bearing Installer and the Bearing Installer, press and remove the bearing cup and the countershaft front bearing seal from the case.



## Assembly

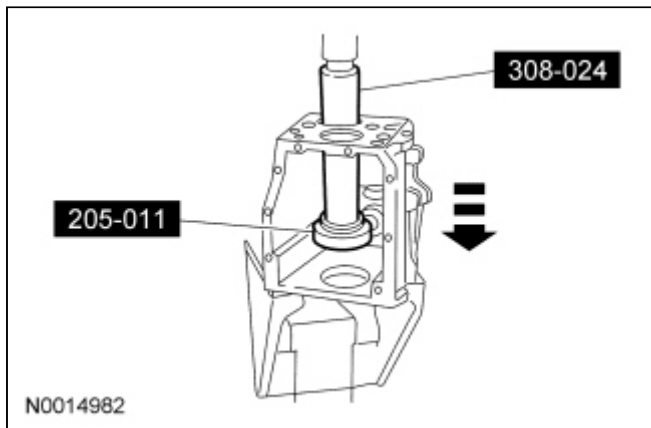
**NOTE:** Position the countershaft in the transmission case before installing the rear countershaft bearing.

1. Install the countershaft front bearing seal on the bearing cup.



2. Coat the outside diameter of the bearing cup with threadlock.
3. **NOTICE: Failure to correctly support the case during bearing race installation will result in permanent distortion of the case.**

Using the Bearing Tube Remover/Installer and Drive Pinion Bearing Cone Installer and a press, install the bearing cup.



4. Using the Drive Pinion Bearing Cone Installer and a press, install the front countershaft bearing.

