

# 2002 Ford F-350 SUPER DUTY PICKUP

Submodel: | Engine Type: V8 | Liters: 7.3

Fuel Delivery: FI | Fuel: DIESEL

SECTION 303-01C: Engine — 7.3L Diesel 2002 F-Super Duty 250-550/Excursion Workshop Manual  
IN-VEHICLE REPAIR [Procedure revision date: 01/23/2004](#)

## Crankshaft Rear Oil Seal

### Special Tool(s)



Damper Remover/Replacer Tool  
303-144 (T79T-6316-A)

ST1675-A



Service Set, Crankshaft Rear Oil Seal  
303-S485 (T94T-6701-AH)

ST1728-A



Remover and Replacer Tube  
308-052 (T77J-7025-B)

ST2321-A



Forcing Screw  
308-092 (T84T-7025-B)

ST1304-A



Clutch Aligner (6-Speed)  
308-421

ST1469-A

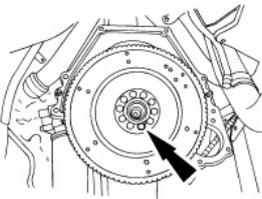
### Removal

#### All vehicles

1. Remove the transmission. For additional information, refer to Section 307-01 for automatic transmission, or Section 308-03 for manual transmission.

#### Vehicles equipped with automatic transmission

2. Remove the bolts, spacers and flexplate.

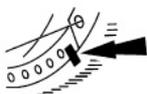


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3. **NOTE:** Use extreme care when removing the flywheel front adapter to prevent damage to the alignment dowel pins.  
Remove the flywheel front adapter.

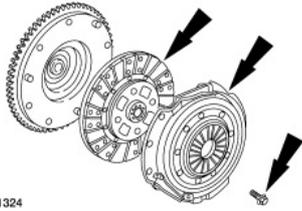
#### Vehicles equipped with manual transmission

4. Index-mark the clutch pressure plate and the flywheel, if reinstalling these parts.



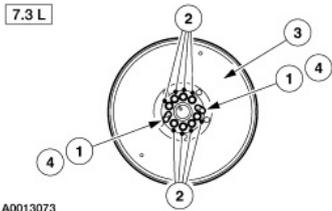
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5. Remove the bolts, the clutch pressure plate and the clutch disc.



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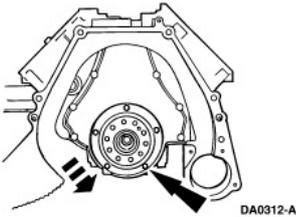
6. Remove the flywheel.
  1. Remove the bolts. Install the guide studs.
  2. Remove the bolts.
  3. Remove the reinforcing ring (7.3L) and flywheel, and the ring gear assembly.
  4. Remove the guide studs.



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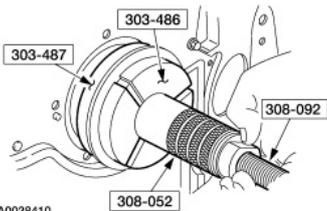
**All vehicles**

7. Remove the crankshaft rear oil seal retaining bolts and the crankshaft rear oil seal.



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8. Inspect the crankshaft rear oil seal, wear sleeve and alignment dowel pins for damage. Install new components as necessary.
9. If equipped with a crankshaft wear sleeve, use the special tools to remove the crankshaft rear wear sleeve.

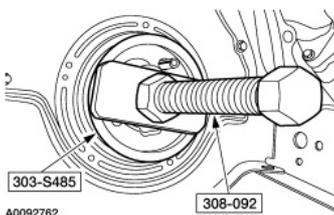


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**Installation**

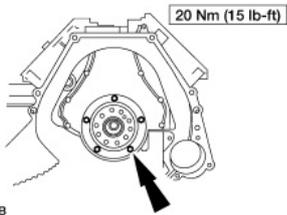
**All vehicles**

1. **NOTE:** The crankshaft rear oil seal and wear sleeve are installed as an assembly.  
Apply RTV Silicone Sealant F5TZ-19G204-AB, or equivalent meeting Ford specification NAVSTR SLR to the rear oil seal retaining ring and the crankshaft rear oil seal retaining bolts.
2. Using the special tools, install the crankshaft rear oil seal.



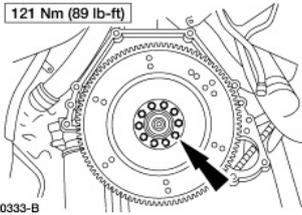
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3. Install the crankshaft rear oil seal retaining bolts.



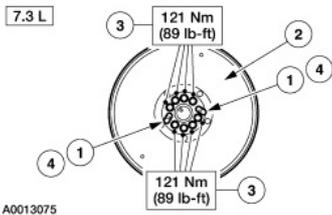
**Vehicles equipped with automatic transmission**

4. Install the flywheel front adapter (if equipped).
5. Install the flexplate, spacers and bolts.



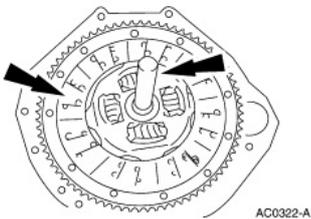
**Vehicles with manual transmission**

6. Install the flywheel.
  1. Install the guide studs.
  2. Install the flywheel and ring gear assembly, and the reinforcing ring.
  3. Install the bolts.
  4. Remove the guide studs. Install and tighten the bolts to specification.

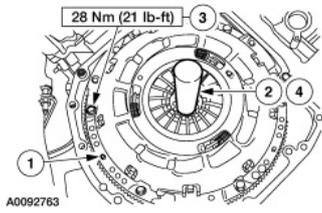


7. **CAUTION:** Sometimes, when removing the transmission, the input shaft will remove a considerable amount of lubricant from the transmission input shaft pilot bearing.  
Lubricate the transmission input shaft pilot bearing, as necessary. Use Krytox® High-Temperature Grease.

8. Position the clutch disc on the flywheel and the clutch alignment tool in the pilot bearing to align the clutch disc.
  - The 7.3L engines accept a 1-3/8 inch input shaft with 0.67 inch pilot bearing inner diameter.



9. **NOTE:** Align the index marks if installing the original clutch pressure plate and flywheel.  
Install the clutch pressure plate.
  1. Position the clutch pressure plate on the two dowels.
  2. Using a clutch alignment tool, align the clutch disc and the pressure plate.
  3. Install the bolts and tighten in a star pattern sequence.
  4. Remove the special tool.



All vehicles

10. Install the transmission. For additional information, refer to Section 307-01 for automatic transmission, or Section 308-03 for manual transmission.
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