




2012 Ford Focus

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| | |
|--|---------------------------------------|
| 307-01 Automatic Transmission - 6-Speed PowerShift Transmission - DPS6/6DCT250 | 2012 - 2014 Focus |
| Removal and Installation | Procedure revision date: 09/3/2013 |

Clutch and Damper Unit

Special Tool(s) / General Equipment

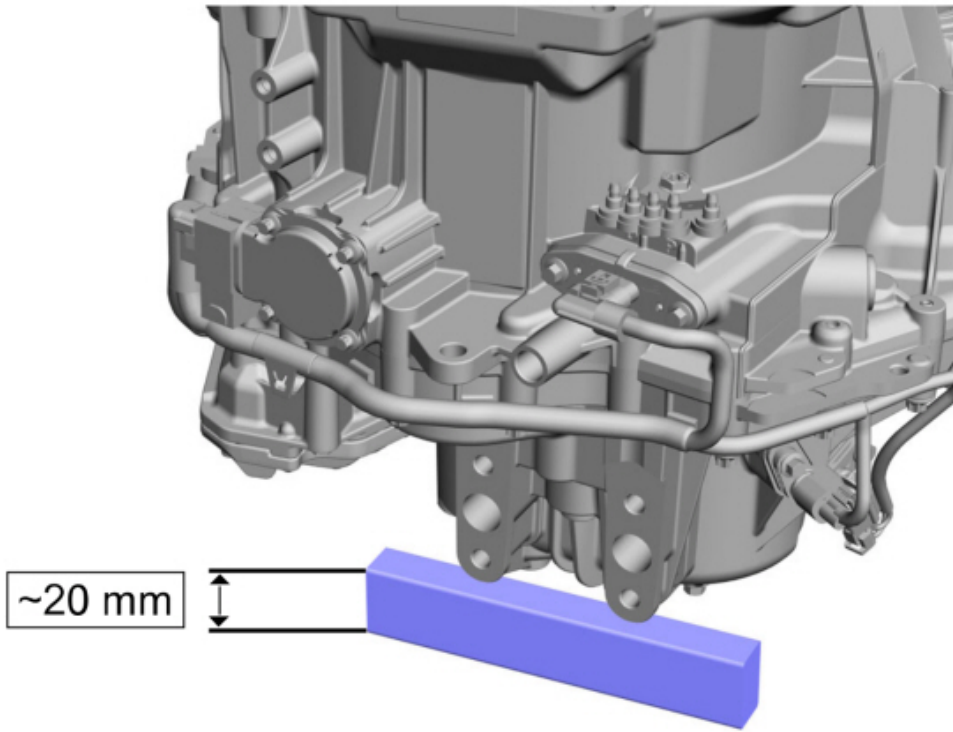
| | |
|---|--|
|  | 307-675 Fixture, Clutch Remover/Installer TKIT-2010D-FLM TKIT-2010D-ROW |
|  | 307-676 Tool, Clutch 1 and 2 Reset TKIT-2010D-FLM TKIT-2010D-ROW |
|  | 307-677 Socket, Actuator Reset TKIT-2010D-FLM TKIT-2010D-ROW |
| Wooden Block | |
| Vise | |
| Caliper Gauge | |

Materials

| Name | Specification |
|---|---------------|
| DPS6 Grease 9U7Z-19A506-BA | WSS-M1C270-A |
| High Temperature Nickel Anti-Seize Lubricant XL-2 | - |
| Motorcraft® Dual Clutch Transmission Fluid XT-11-QDC | WSS-M2C200-D2 |

Removal

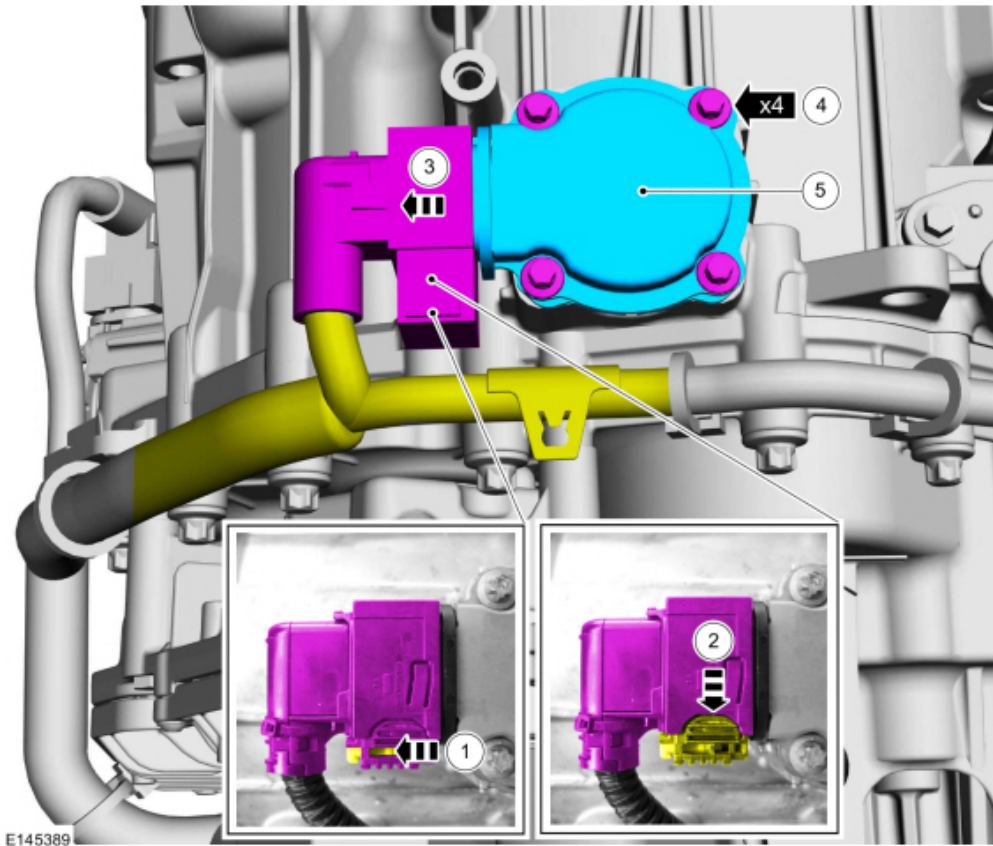
1. Refer to: [Transmission - 2.0L Duratec-HE \(125kW/170PS\) - MI4](#) (307-01 Automatic Transmission - 6-Speed PowerShift Transmission - DPS6/6DCT250, Removal).
2. Use the General Equipment: Wooden Block



E168719



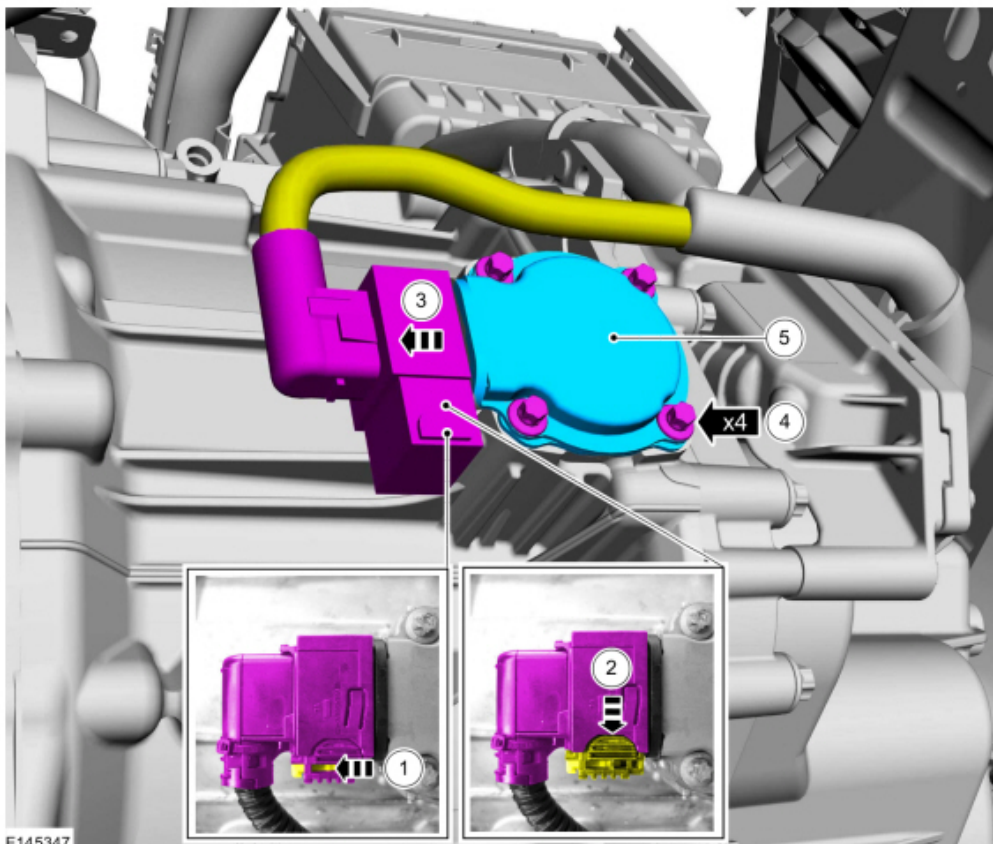
- 3.



E145389



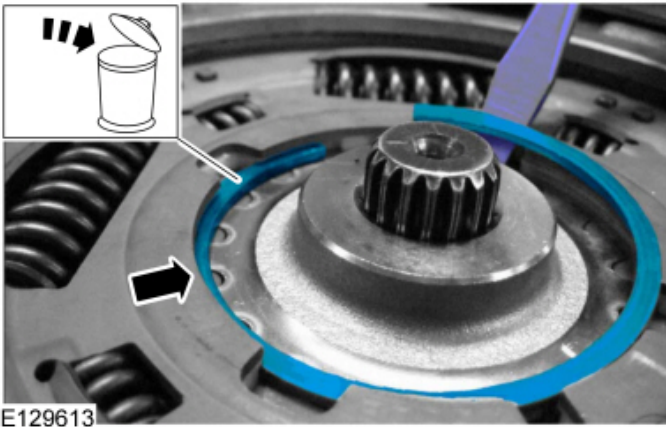
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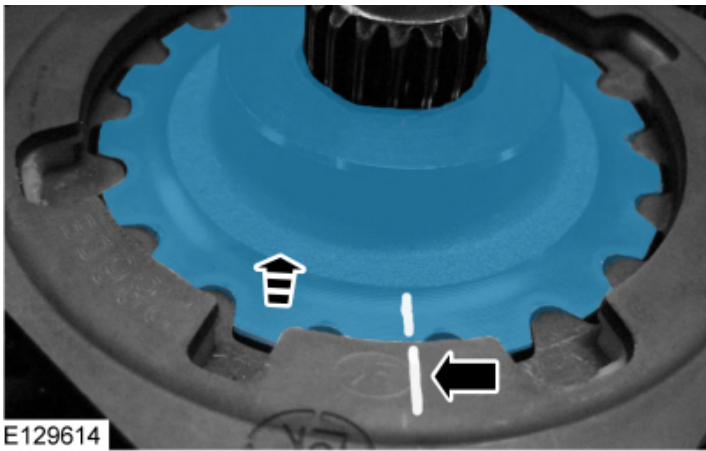
E145347



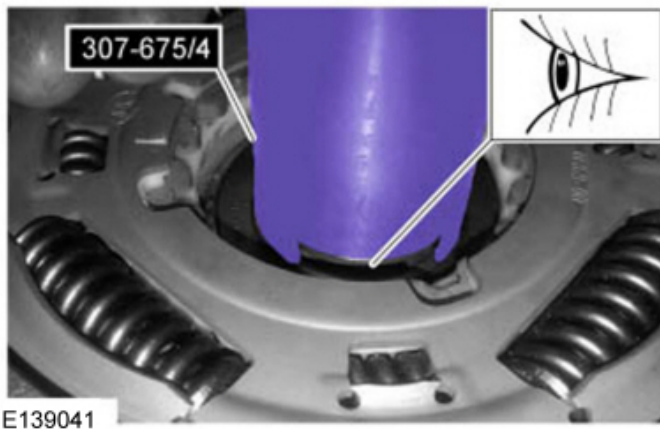
5. Use part: -7064- clutch hub snap ring 71.5 X 2



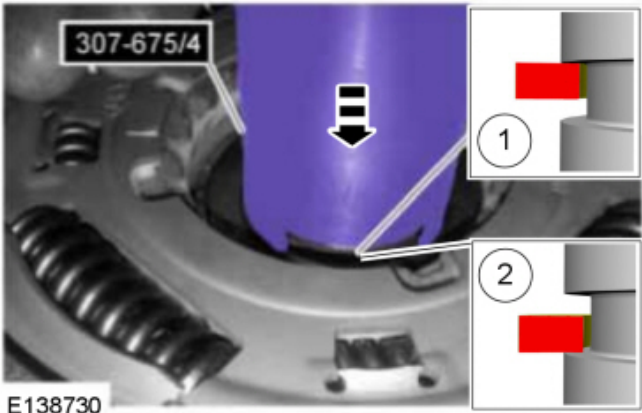
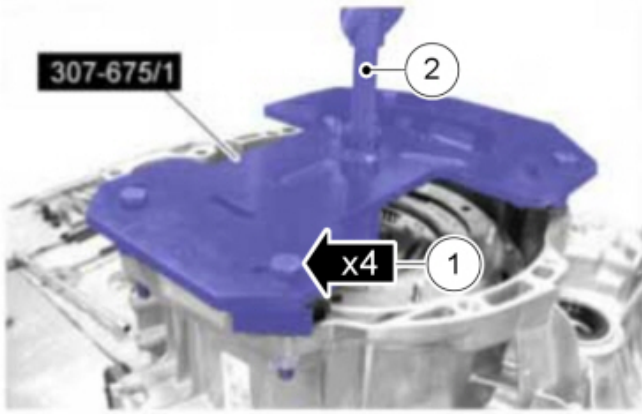
6. **NOTE:** Note the position of the component before removal.



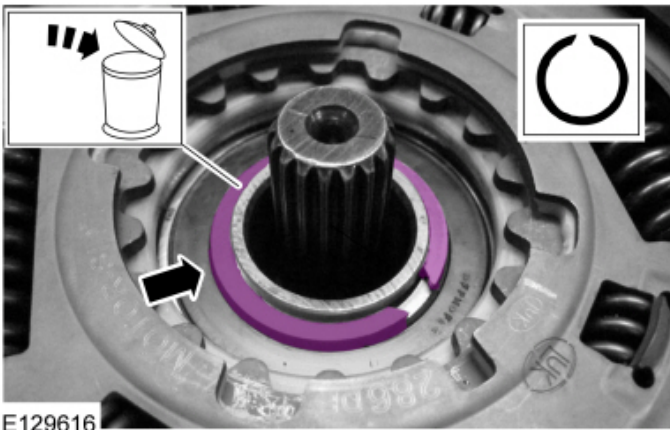
7. Use Special Service Tool: 307-675 Fixture, Clutch Remover/Installer.



8. 1. **NOTE:** Only tighten the bolt finger tight at this stage.
2. Using the special tools, turn the center bolt of the special tool with a maximum of 5 Nm (44 lb-in) of torque to push the clutch down to release the pressure from the hollow input shaft snap ring.
- Use Special Service Tool: 307-675 Fixture, Clutch Remover/Installer.
- Torque: 5 Nm



9. Use part: -7064- hollow input shaft snap ring 35 X 1.8

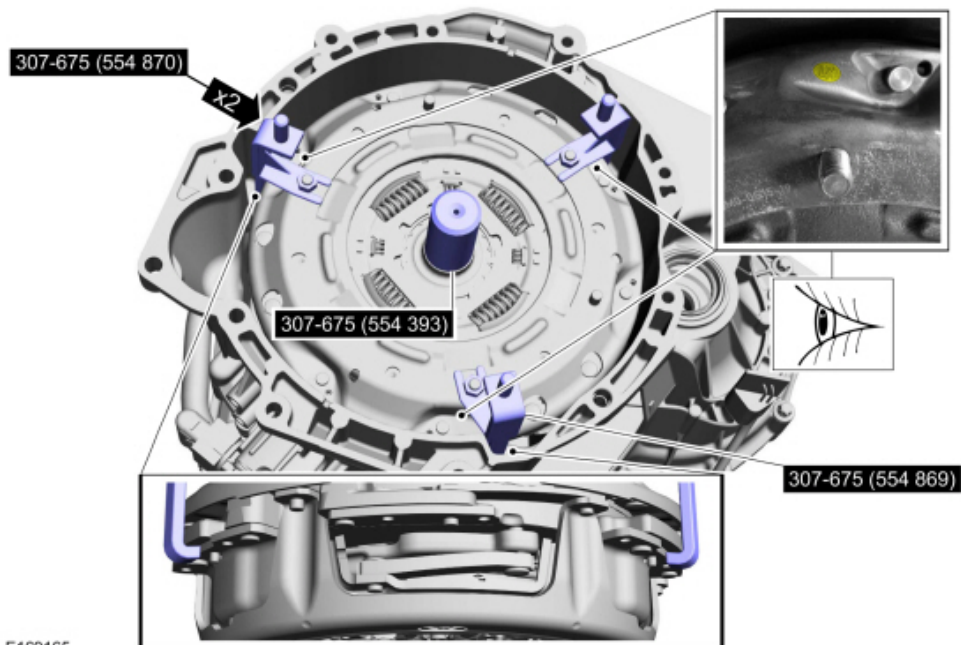


10. **NOTICE:** Make sure the lifting legs are installed on the clutch studs marked with the stamped manufacturing mark as shown.

NOTICE: Installing the lifting legs on unmarked clutch studs will damage the pressure plate adjuster.

NOTICE: Make sure the lifting leg with the angle is in the location shown.

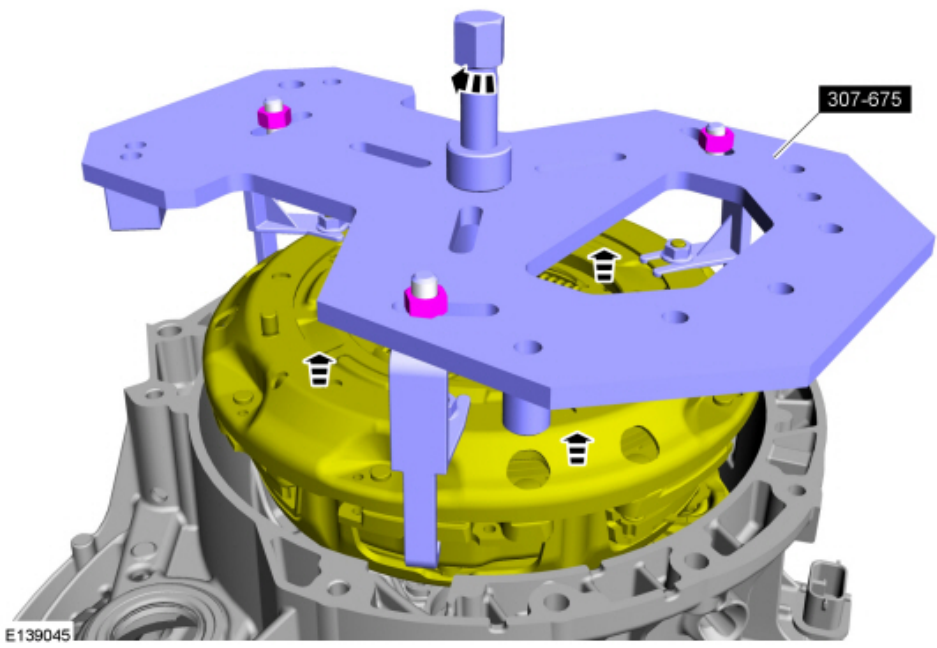
Use Special Service Tool: 307-675 Fixture, Clutch Remover/Installer.



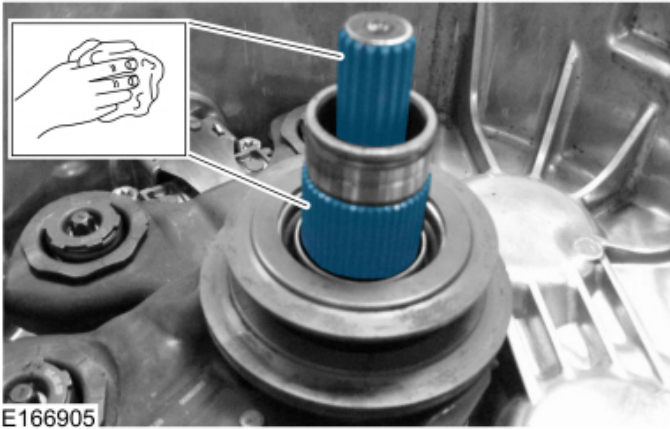
11. Turn the center bolt with approximately 5 Nm (44 lb-in) of torque until the clutch is free of the input shaft.

Use Special Service Tool: 307-675 Fixture, Clutch Remover/Installer.

Torque: 5 Nm



12.



Installation

[Click here to view a video version of this procedure.](#)

1. [Click here to view clutch reset video.](#)

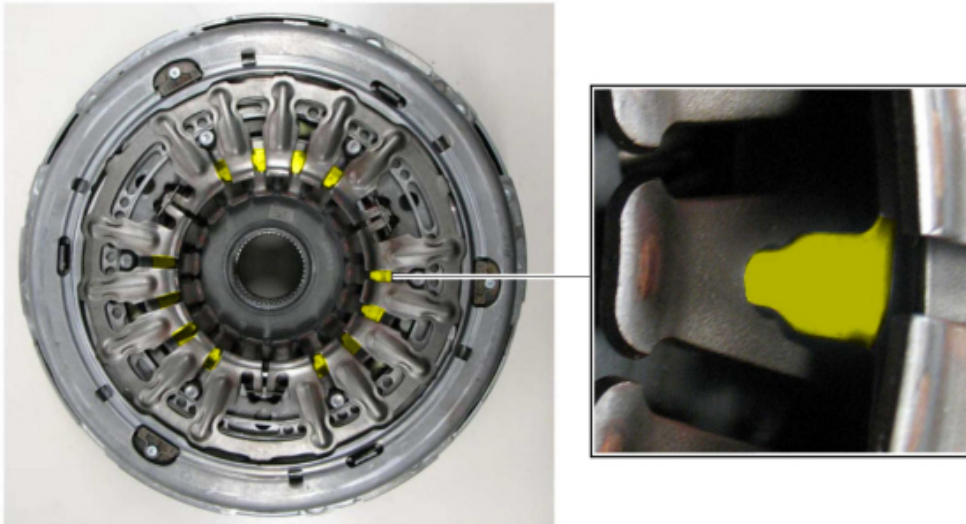


E162988



2. **NOTICE:** New clutches are shipped with the clutch locks locked. Attempting to reset a locked clutch will damage the clutch. Steps 4 through 16 only apply if the clutch is unlocked.

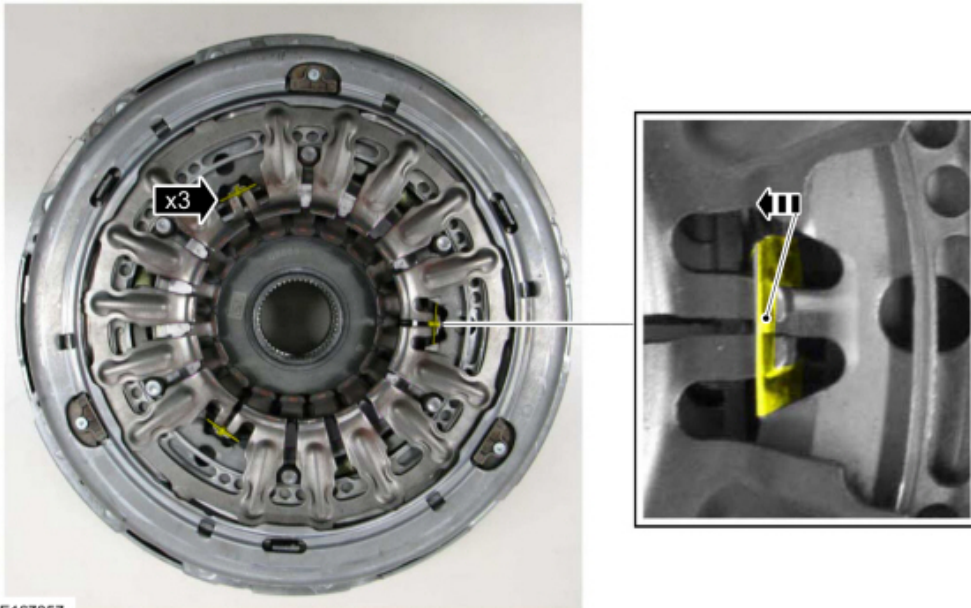
Verify clutch 2 locks are locked.



E167003



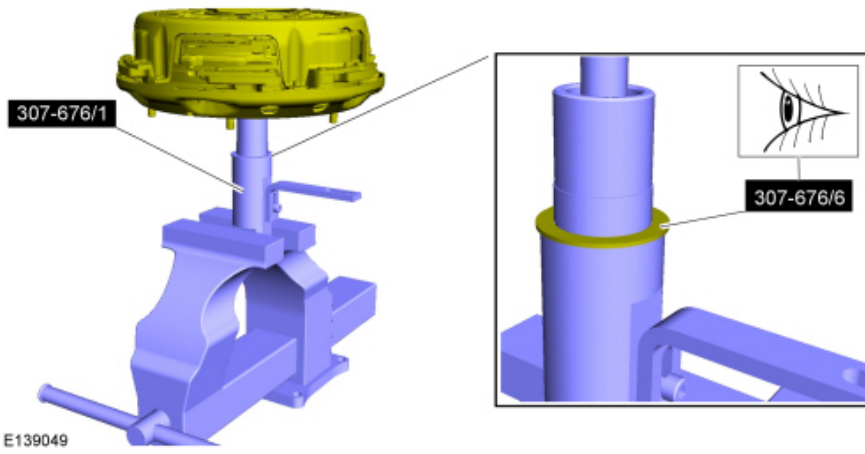
3. Verify clutch 1 locks are locked.



E167057



4. Use Special Service Tool: 307-676 Tool, Clutch 1 and 2 Reset.
Use the General Equipment: Vise

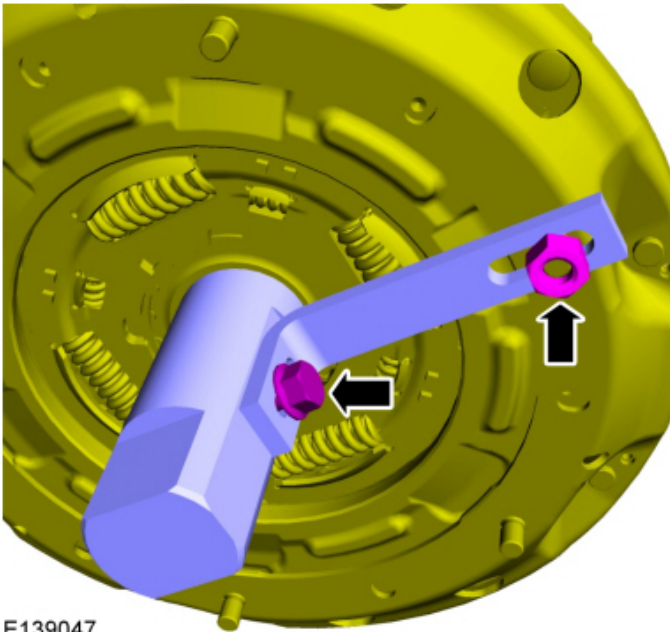


E139049



5. **NOTE:** Only tighten the nut and bolt finger tight at this stage.

Use Special Service Tool: 307-676 Tool, Clutch 1 and 2 Reset.



E139047



6. **NOTE:** Only tighten the nut and bolt finger tight at this stage.

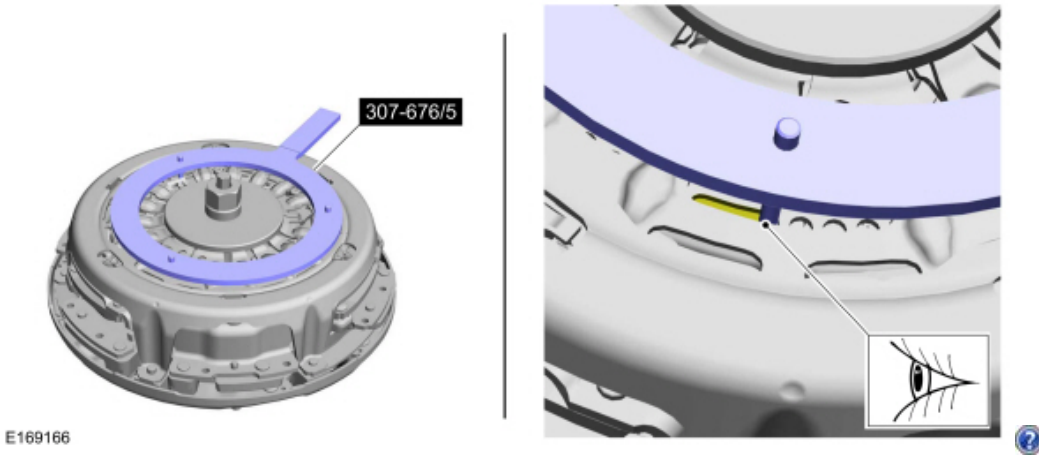
Use Special Service Tool: 307-676 Tool, Clutch 1 and 2 Reset.



E139050

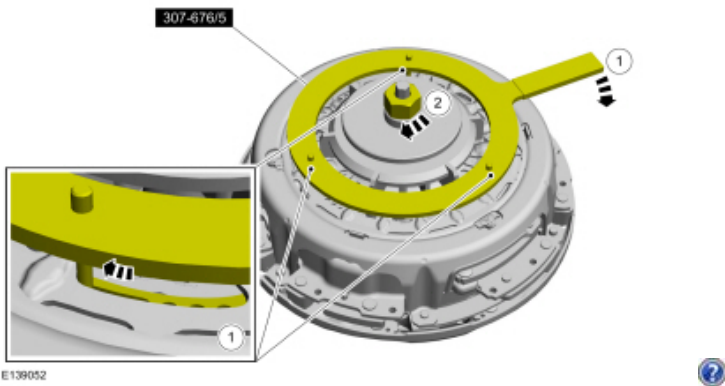


7. Install the special tool on the clutch making sure the legs are inserted in the slots.
Use Special Service Tool: 307-676 Tool, Clutch 1 and 2 Reset.

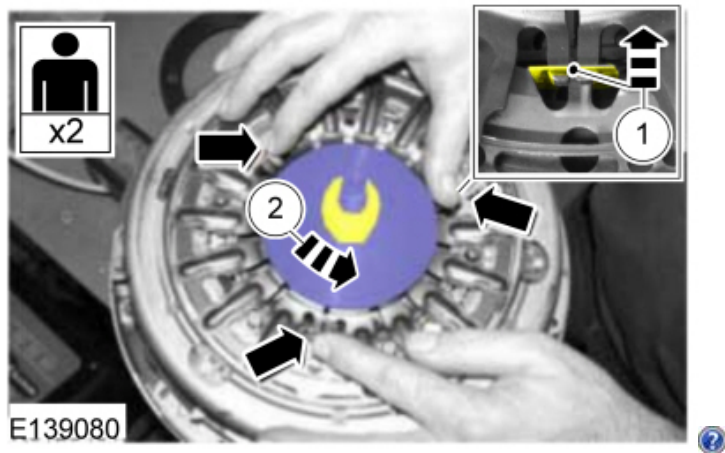


8. **NOTICE:** Failure to rotate the self-adjuster to the stops before compressing the clutch, causes damage to the clutch.

1. Turn the special tool clockwise to the stops and hold.
2. Tighten the special tool until the 3 clutch 1 locks can be locked in place by hand.
Use Special Service Tool: 307-676 Tool, Clutch 1 and 2 Reset.

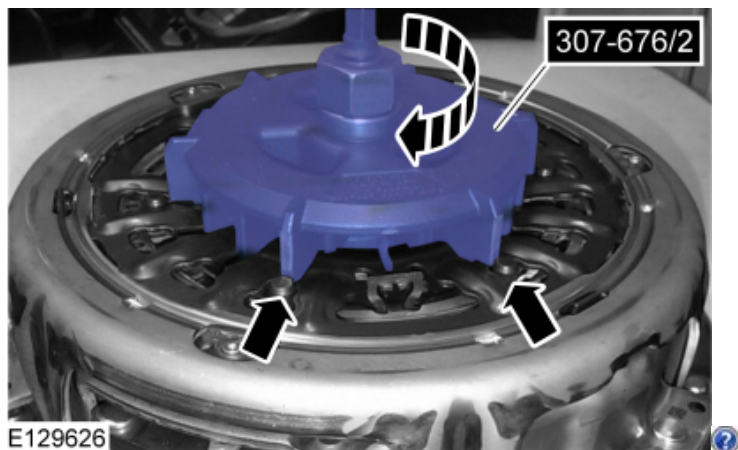


9. Use Special Service Tool: 307-676 Tool, Clutch 1 and 2 Reset.

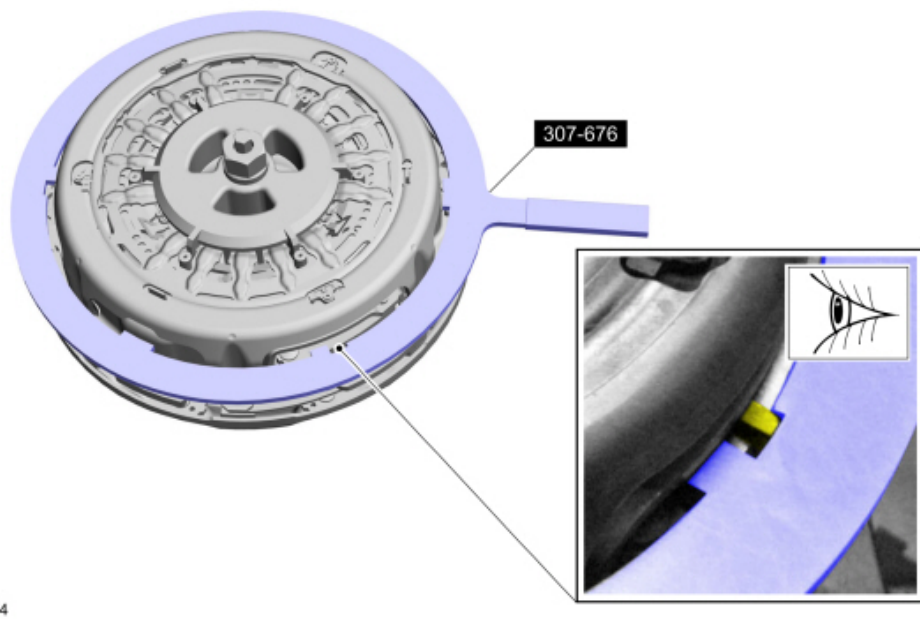


10. **NOTE:** Only tighten the nut finger tight at this stage.

Use Special Service Tool: 307-676 Tool, Clutch 1 and 2 Reset.



11. Use Special Service Tool: 307-676 Tool, Clutch 1 and 2 Reset.

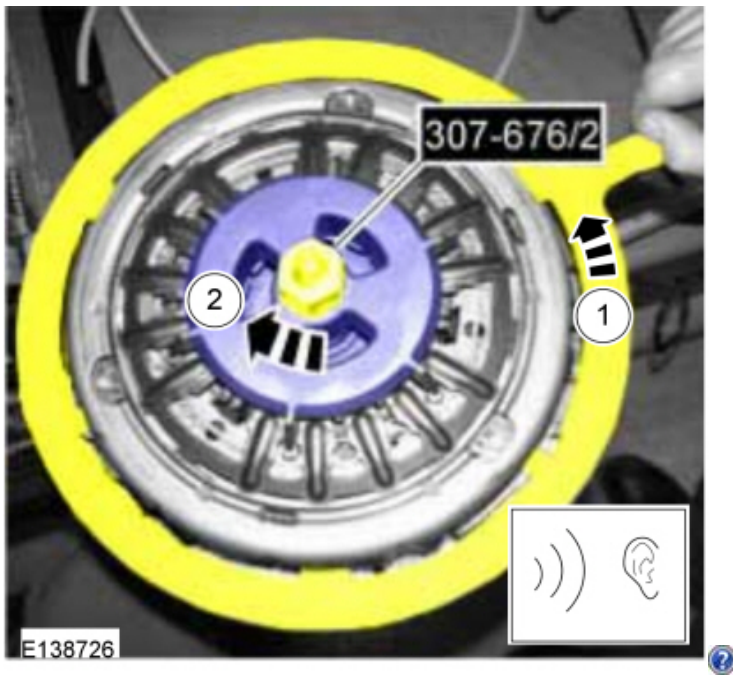


12. **NOTICE:** Failure to rotate the self-adjuster to the stops before compressing the clutch, causes damage to the clutch.

NOTE: An audible click can be heard when the clutch locks lock.

While holding the clutch self-adjuster to the stops, use the special tool and compress the clutch to the stops on the clutch. The locks on clutch 2 lock at this time.

Use Special Service Tool: 307-676 Tool, Clutch 1 and 2 Reset.

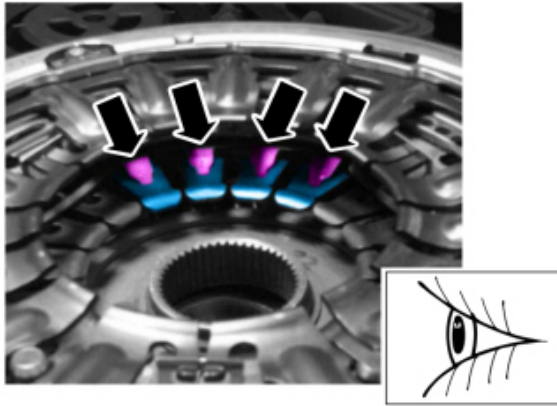


13. Remove Special Service Tool: 307-676 Tool, Clutch 1 and 2 Reset.

14. **NOTE:** *The minimum number of engaged clutch locks is 6. Make sure the 6 locked clutch fingers align with the clutch studs as shown. If not, reset the clutch 2 locks as necessary.*

NOTE: *4 locks shown, 12 total.*

Visually check the locks to make sure they have locked.



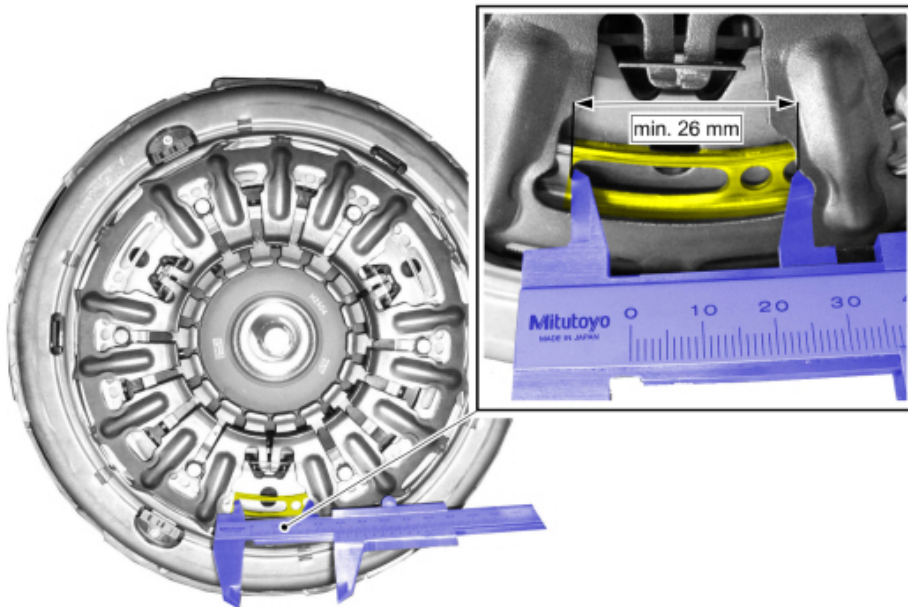
E149670



15. If installing a used clutch, verify the clutch is not worn or damaged. Perform the next 2 steps to check for clutch wear.
16. **NOTE:** *This step does not need to be performed if a new clutch is being installed.*

NOTE: *Use a 0-75mm caliper.*

Replace clutch if clearance is less than the specified value.
Use the General Equipment: Caliper Gauge



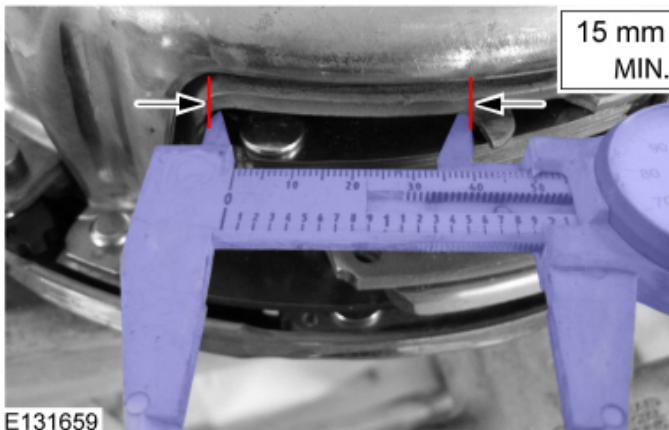
E146156



17. **NOTE:** This step does not need to be performed if a new clutch is being installed.

Replace clutch if clearance is less than the specified value.

Use the General Equipment: Caliper Gauge



E131659



18. **NOTICE:** Do not tilt the transmission until after Step 28 when the clutch locks are released. Failure to do so may cause the Z-washers to fall out of place causing a noise issue or damage.

NOTE: The component can only be installed in 1 position.

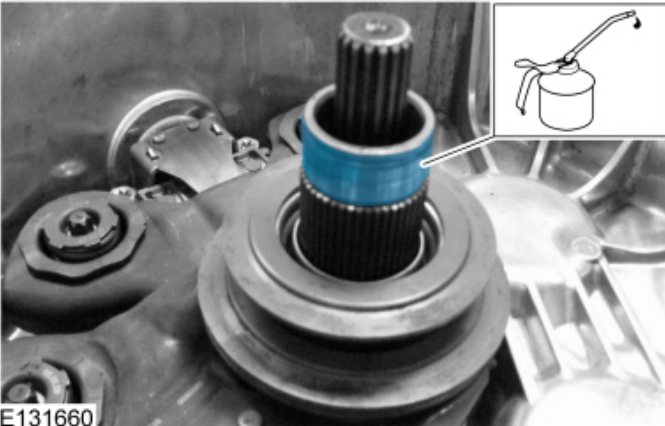
NOTE: A small amount of adhesive is applied between the Z-washer and the bearing surface to aid factory assembly. This is **NORMAL** and not required in service during a repair.



19. **NOTICE:** Excessive oil can contaminate the clutch. Only apply enough oil to lubricate the shaft for clutch installation.

Apply a thin coating.

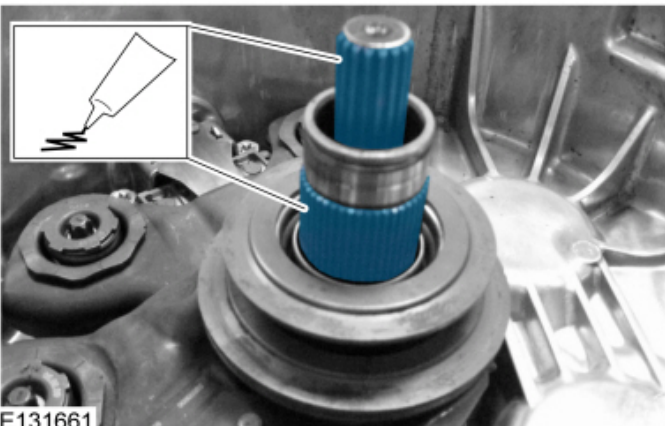
Material: Motorcraft® Dual Clutch Transmission Fluid / XT-11-QDC (WSS-M2C200-D2)



20. **NOTICE:** Excessive grease can contaminate the new clutch. Apply 1 gram or about 1/3 tube of the grease provided in the kit.

Apply a small amount of DPS6 Grease on both input shaft splines.

Material: DPS6 Grease / 9U7Z-19A506-BA (WSS-M1C270-A)



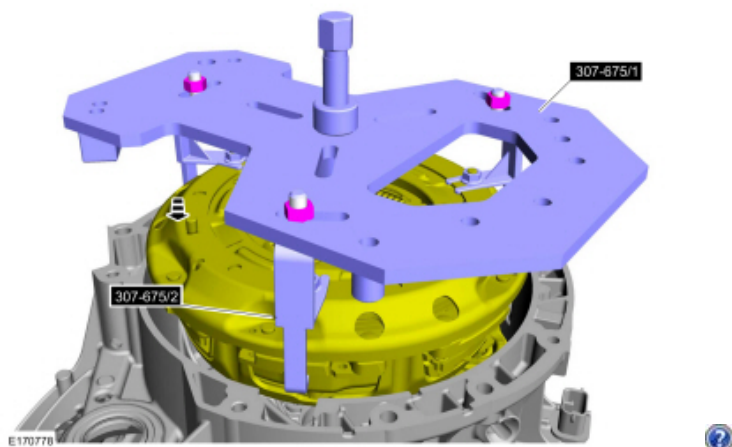
NOTICE: Do not tilt the transmission until after Step 26 when the clutch locks are released. Failure to do so may cause the Z-washers to fall out of place, causing a noise issue or damage.

21. **NOTICE:** Verify the clutch locks are locked prior to installation or the transaxle may not operate correctly and damage can occur. If the clutch locks are not locked go to step 4 within this procedure.

NOTICE:

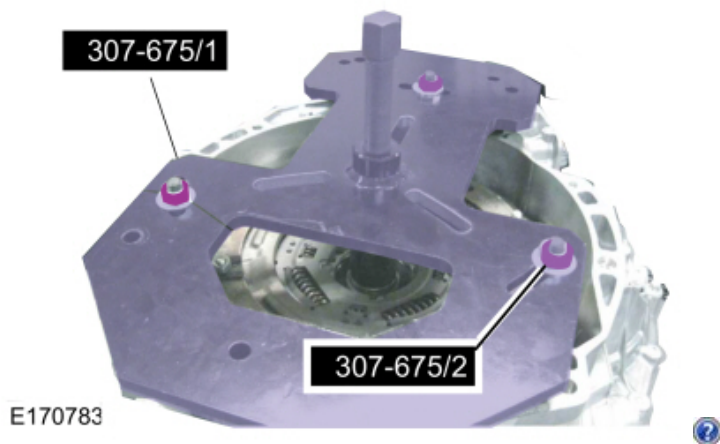
NOTE: The clutch splines are properly aligned when the end of the hollow input shaft is near the clutch bearing centerline.

Use Special Service Tool: 307-675 Fixture, Clutch Remover/Installer.

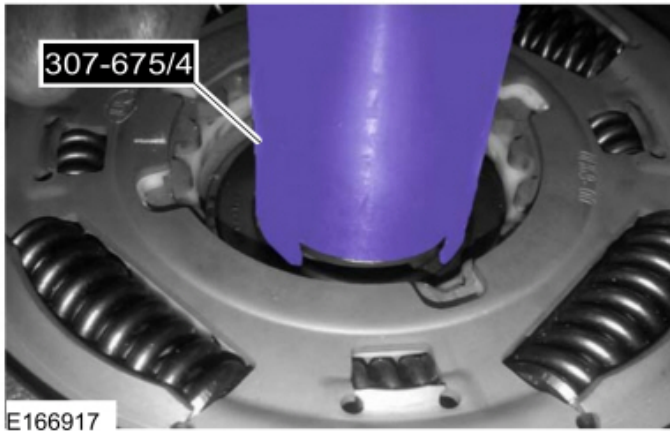


22. Remove special tools.

Use Special Service Tool: 307-675 Fixture, Clutch Remover/Installer.



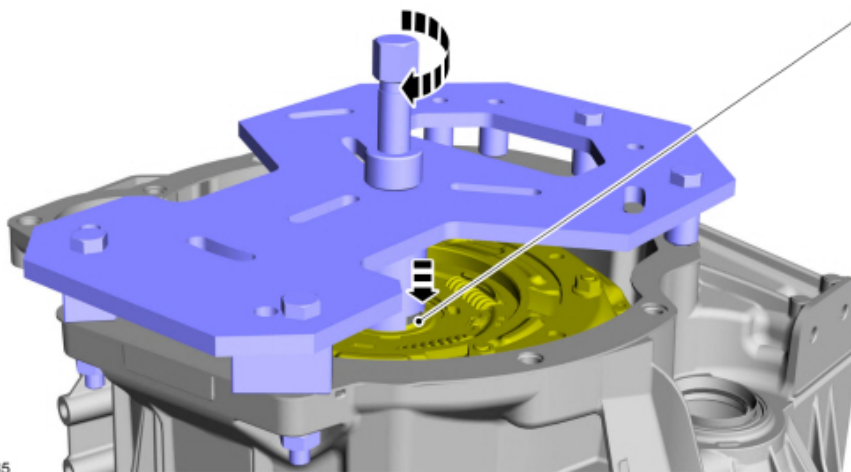
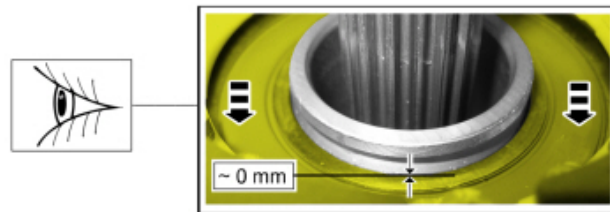
23. Use Special Service Tool: 307-675 Fixture, Clutch Remover/Installer.



24. **NOTICE:** Do not overtighten the special tool or damage can occur.

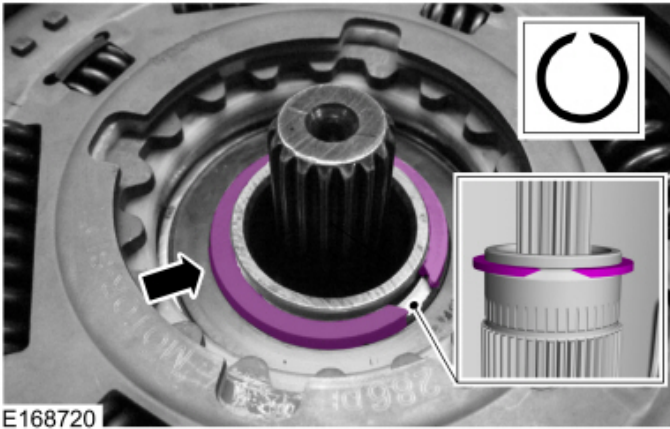
Use Special Service Tool: 307-675 Fixture, Clutch Remover/Installer.

Torque: 5 Nm



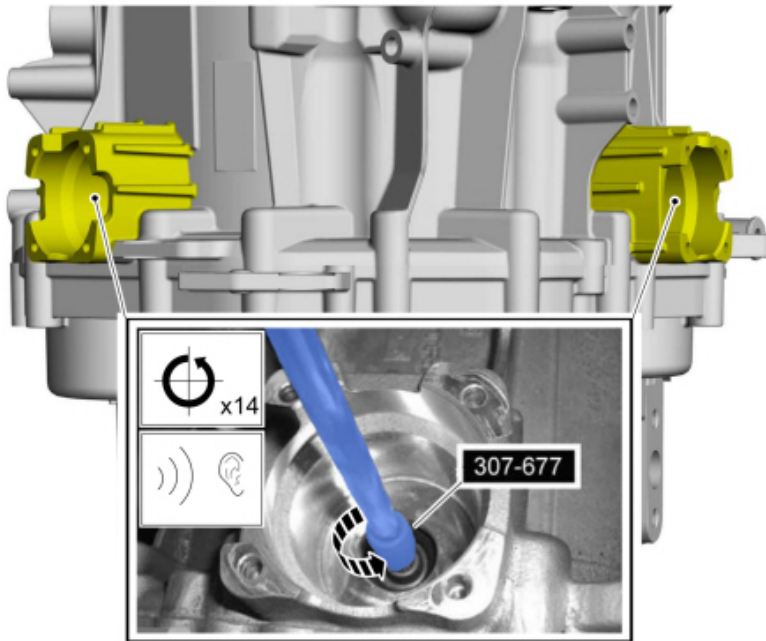
25. **NOTE:** Make sure that a new component is installed.

The snap ring ends are tapered for easier removal. Install the new snap ring with the narrow opening on top.

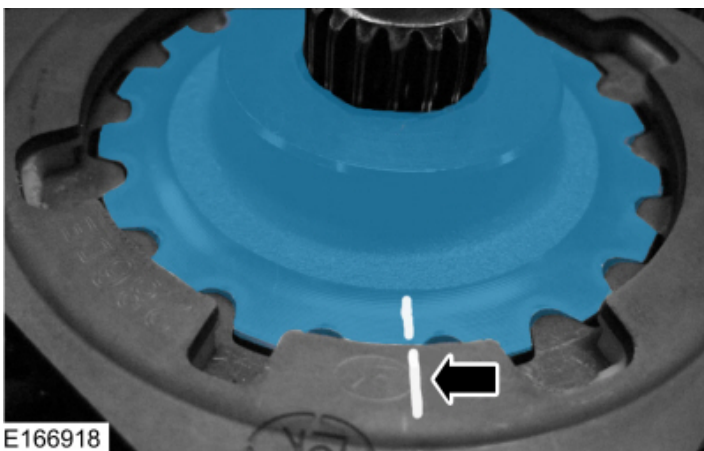


26. **NOTE:** Verify snap ring is secure in groove.

- Use Special Service Tool: 307-677 Socket, Actuator Reset.
- Or Use the General Equipment: Ball End Hex Bit - 6 mm.

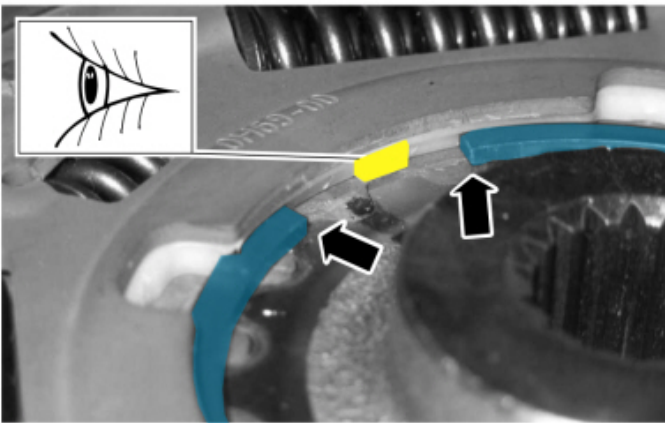
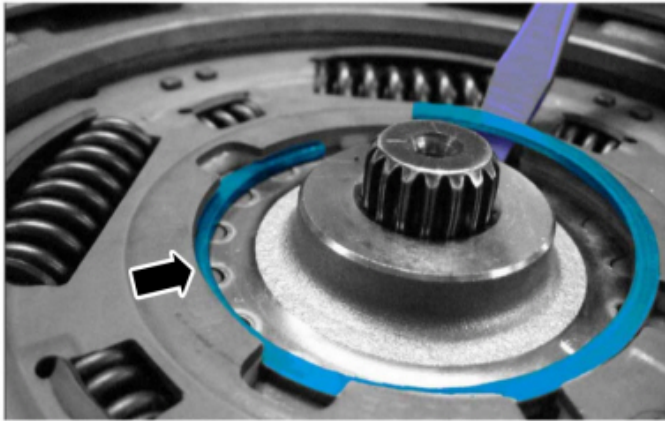


27. **NOTE:** Make sure the installation marks are aligned.



28. **NOTE:** Make sure that a new component is installed.

NOTE: The component can only be installed in 1 position.

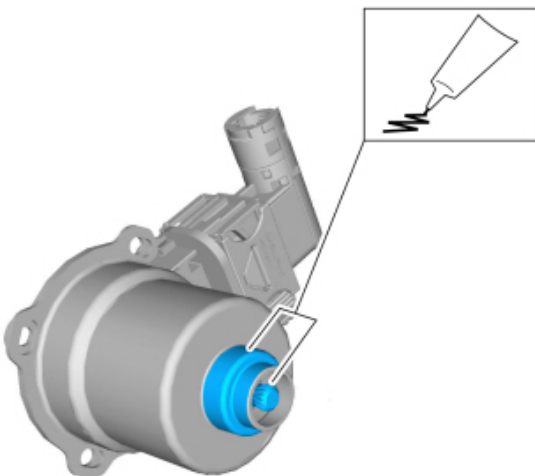


E167310



29. Apply High Temperature Nickel Anti-Seize Lubricant to both clutch motor surfaces where indicated.

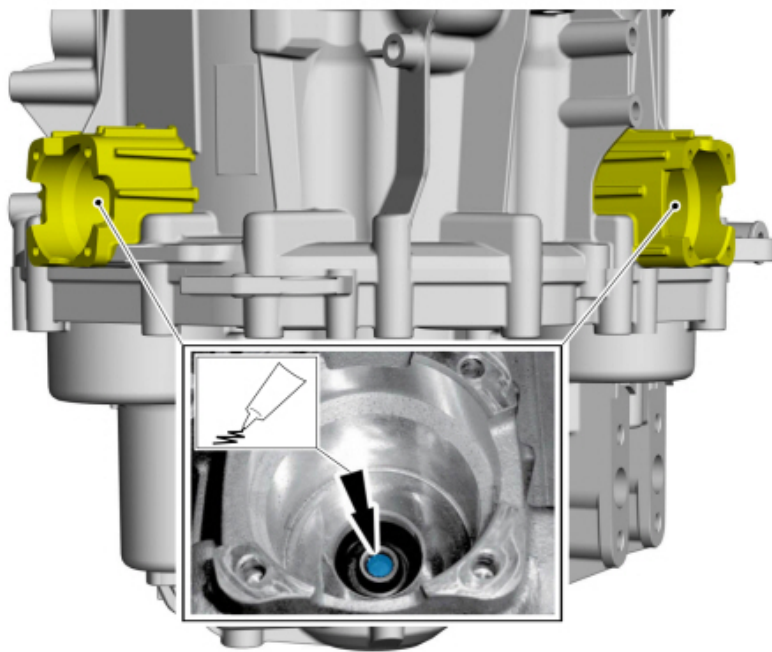
Material: High Temperature Nickel Anti-Seize Lubricant / XL-2



E128969



30. *Material:* High Temperature Nickel Anti-Seize Lubricant / XL-2

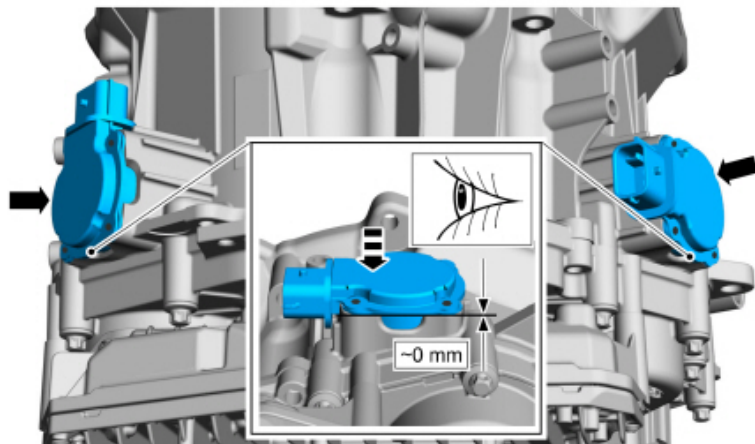


E145972



31. **NOTICE:** Use only hand pressure to align the splines and seat the motor. Do not use the bolts to draw the motor to the case. Forcing the motor into the case will damage the clutch motor and engagement lever.

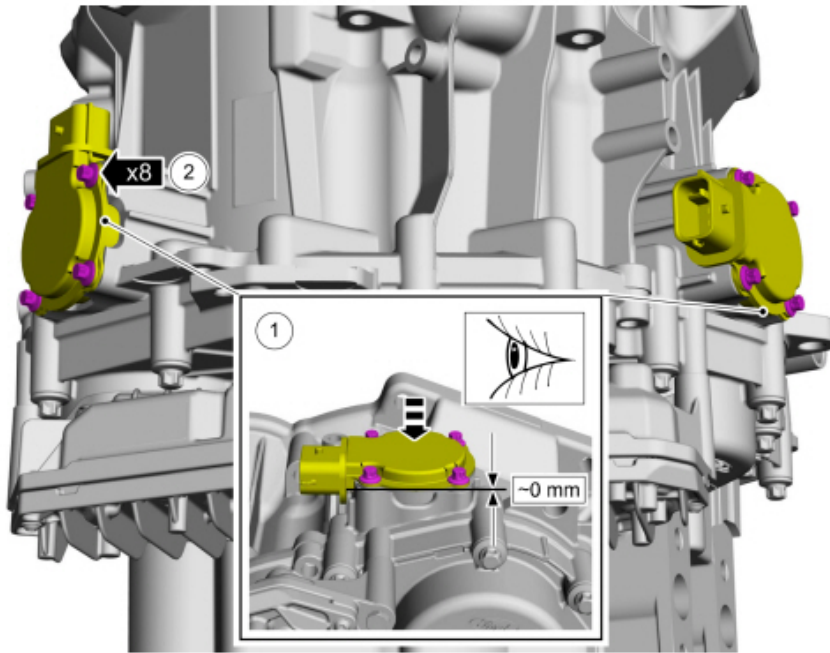
NOTE: *Clutch motor splines may need to be turned to ease installation.*



E169293



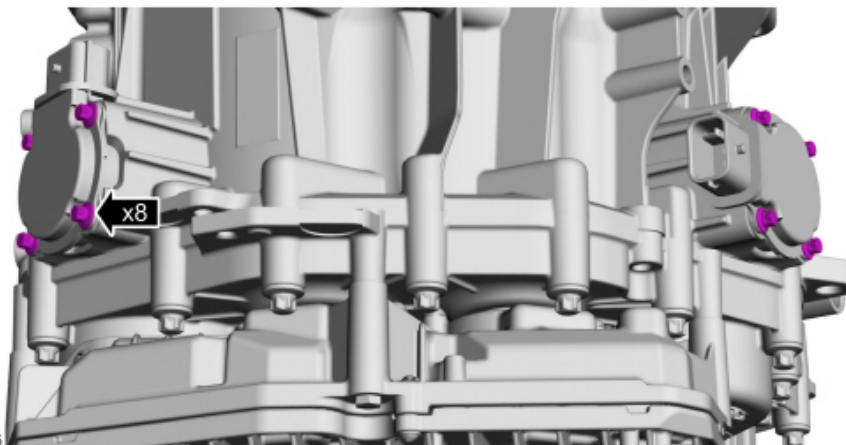
32.



E169168



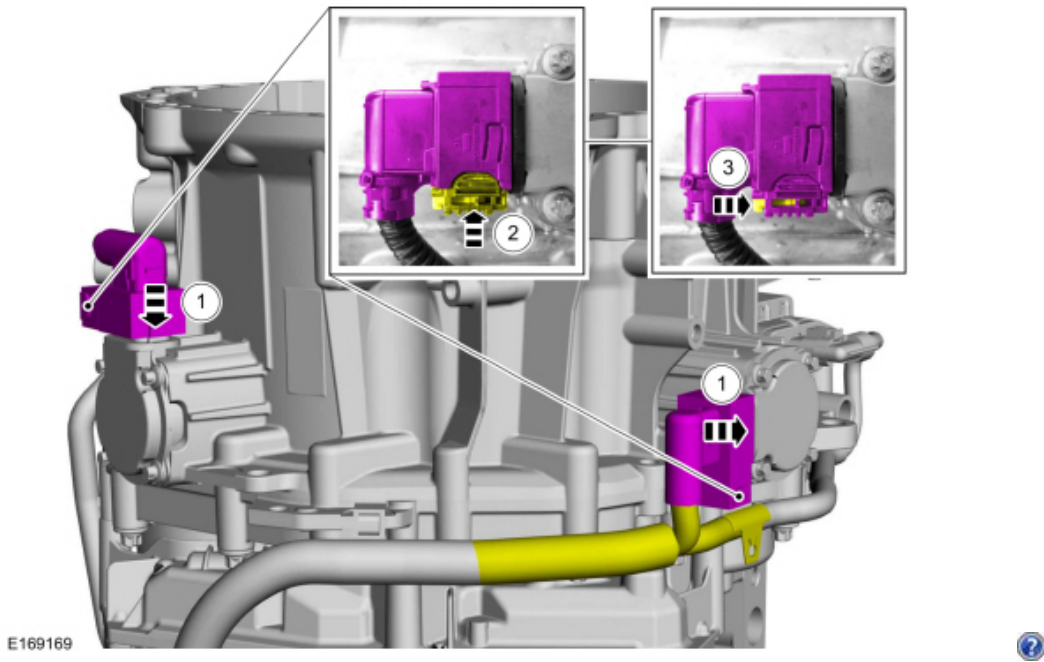
33. Torque: 5 Nm



E169275



34.



E169169

- 35. Refer to: [Transmission - 2.0L Duratec-HE \(125kW/170PS\) - M14](#) (307-01 Automatic Transmission - 6-Speed PowerShift Transmission - DPS6/6DCT250, Installation).

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