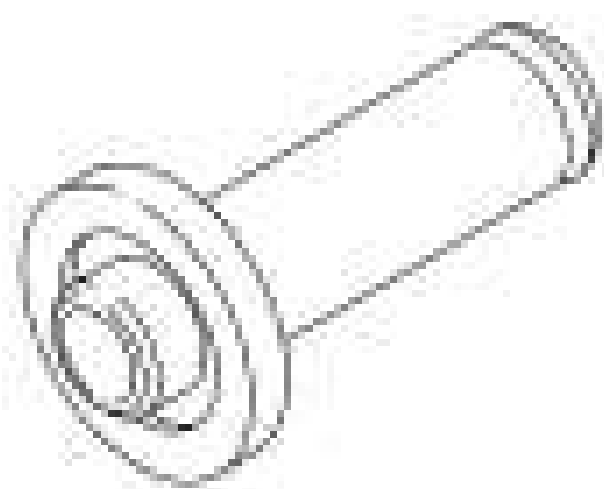


REMOVAL AND INSTALLATION

HALFSHAFT SEAL RH

SPECIAL TOOL(S) / GENERAL EQUIPMENT

| | |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|  <p>15058</p> | <p>205-115 Installer, Drive Pinion Seal TKIT-2000-F/FM/FLM</p> |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|

Removal

WARNING: Before beginning any service procedure in this service information, refer to Safety Warnings in **SERVICE INFORMATION** General Information. Failure to follow this instruction may result in serious personal injury.

1. Refer to: **Health and Safety Precautions** (**HEALTH AND SAFETY PRECAUTIONS**).

Refer to: **Jacking and Lifting - Overview** (**JACKING AND LIFTING - OVERVIEW**).

2.
 1. If equipped.

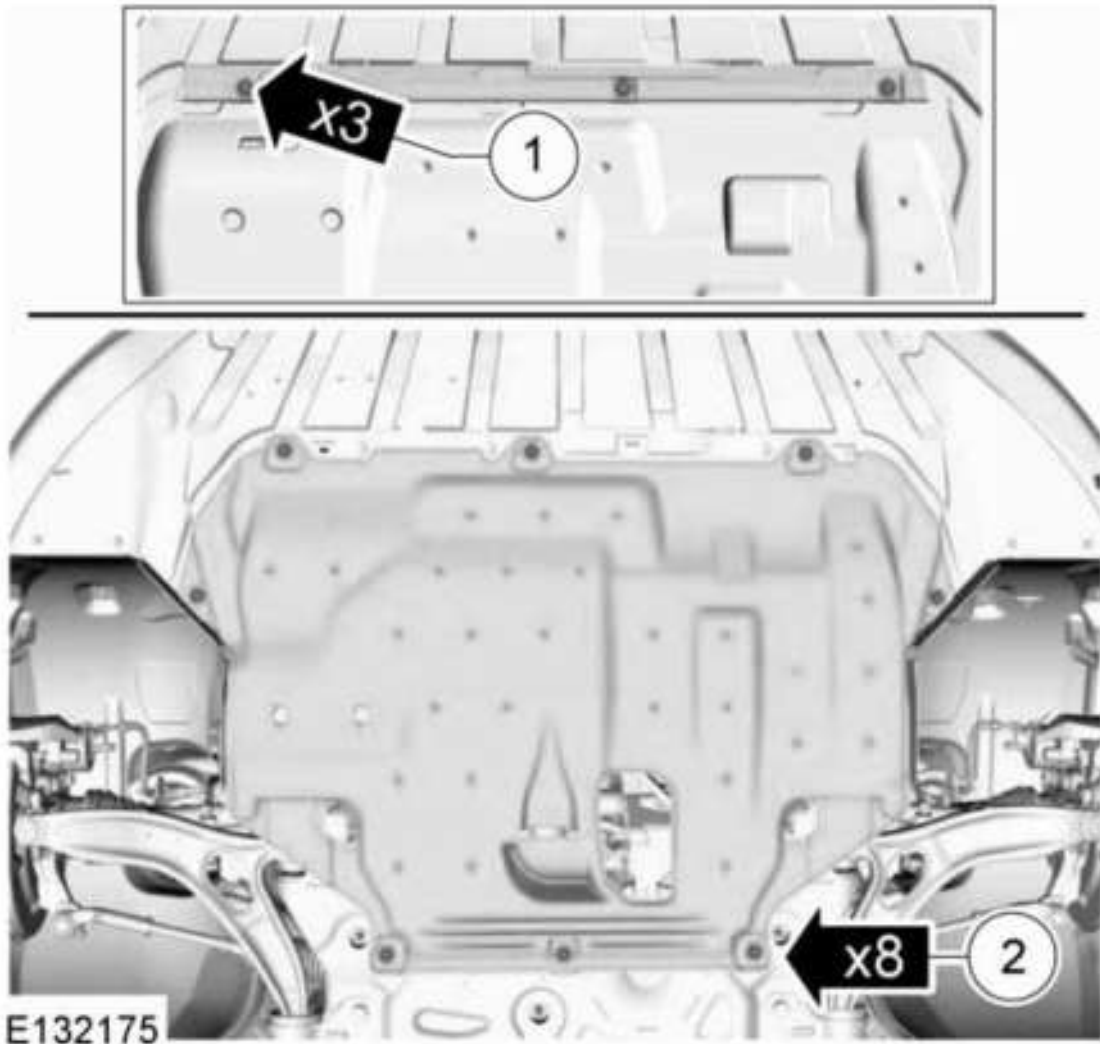
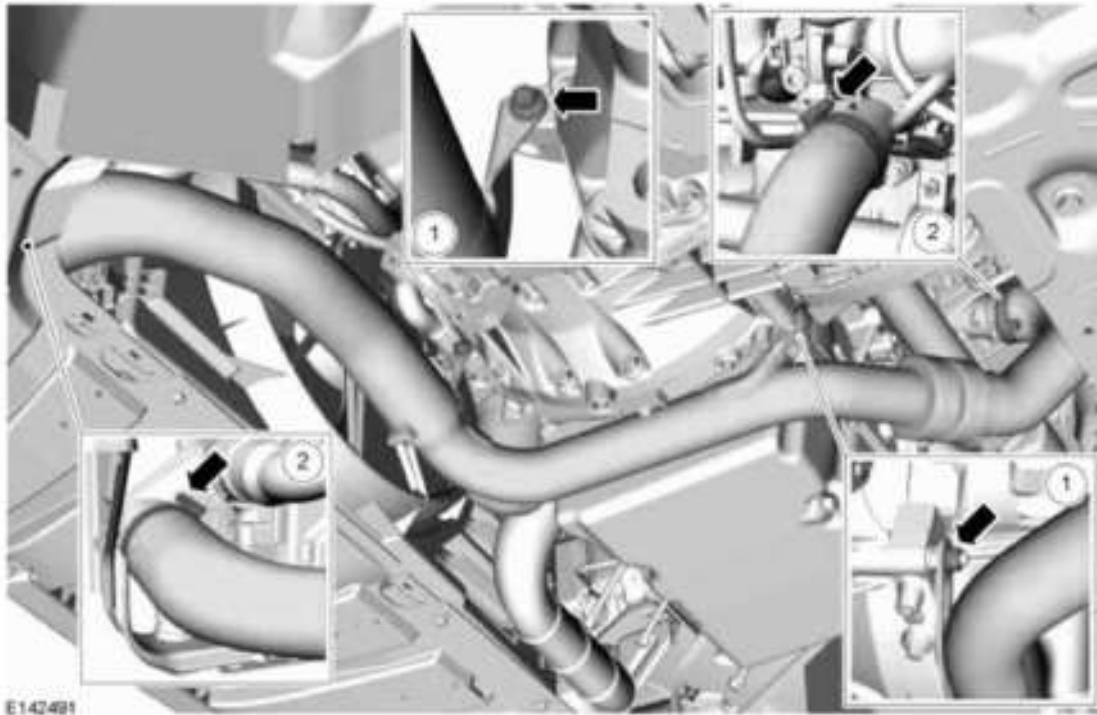
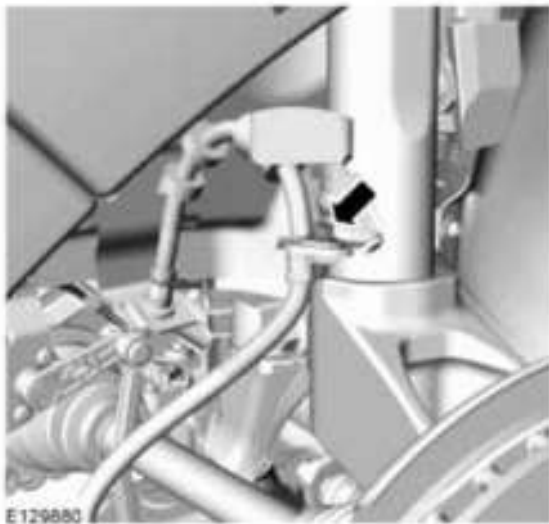


Fig. 28: Locating Engine Lower Cover Fasteners
Courtesy of FORD MOTOR CO.



3.

Fig. 29: Locating Turbocharger Hoses Clamps And Bolts
 Courtesy of FORD MOTOR CO.



4.

Fig. 30: Locating Front Halfshaft Bracket Bolt
 Courtesy of FORD MOTOR CO.

NOTE: Do not use a prying device or separator fork between the ball joint and the wheel knuckle. Damage to the ball joint or ball joint seal may result. Only use the pry bar by inserting it into the lower arm body opening.

5.

NOTE: Use care when releasing the lower arm and wheel knuckle into the resting position or damage to the ball joint seal may occur.

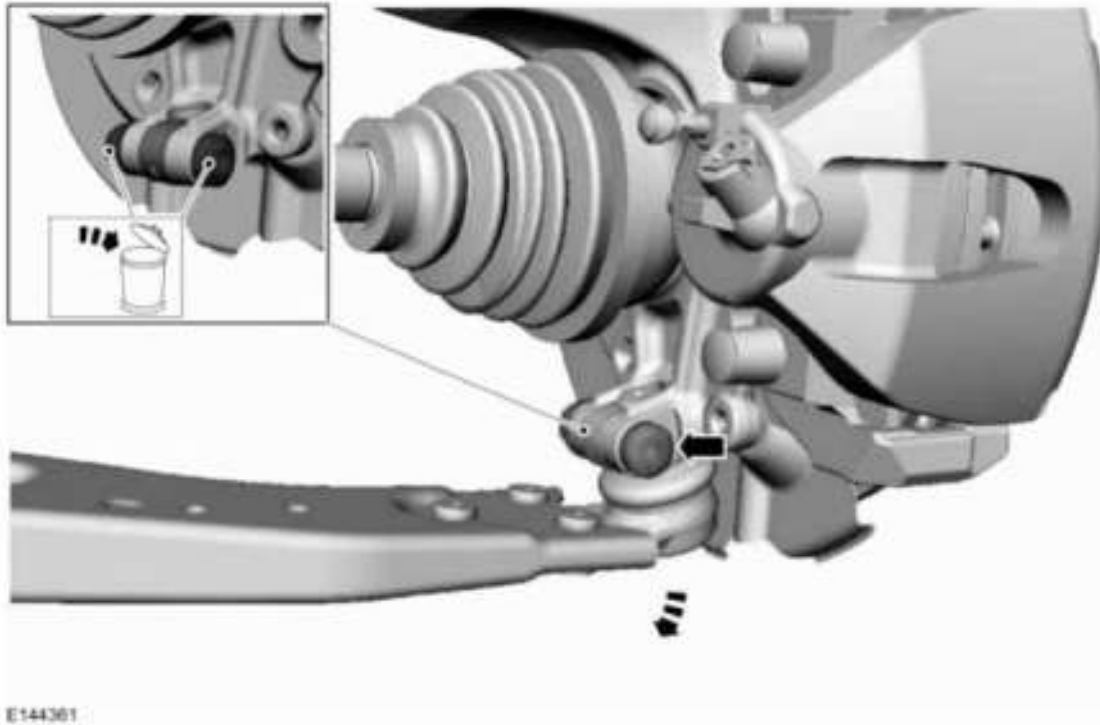
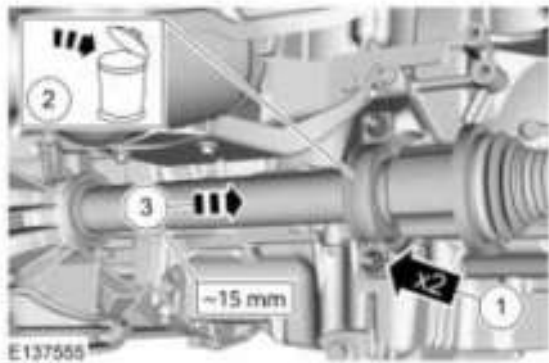


Fig. 31: Releasing Lower Arm And Wheel Knuckle
Courtesy of FORD MOTOR CO.



6. **Fig. 32: Locating Intermediate Shaft Clamp Bolts**
Courtesy of FORD MOTOR CO.



7. **Fig. 33: Identifying Halfshaft Seal**

Courtesy of FORD MOTOR CO.

Installation

NOTE: Make sure new component is installed.



Fig. 34: Installing Drive Pinion Seal
Courtesy of FORD MOTOR CO.

1. *Special Tool(s)* : 205-115 (Installer, Drive Pinion Seal)
2. **NOTE:** Do not fully install the halfshaft at this time.



Fig. 35: Installing Halfshaft
Courtesy of FORD MOTOR CO.

NOTE: Insert the intermediate shaft until the intermediate shaft bearing is centered in the concave groove of the intermediate shaft bearing bracket.

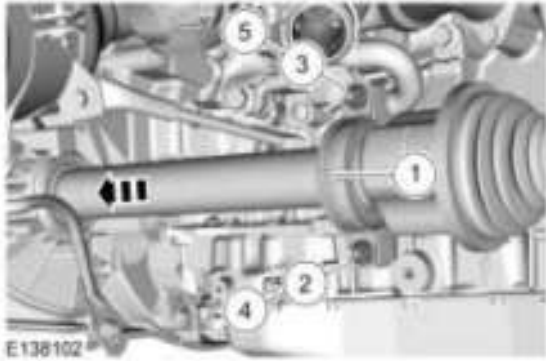
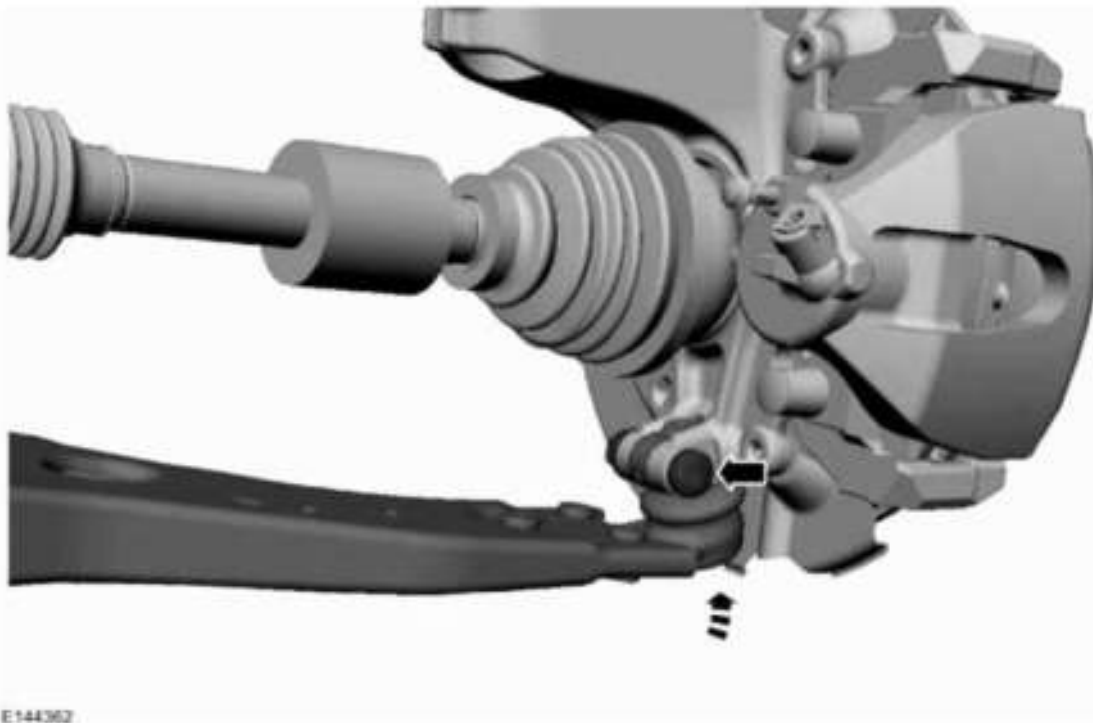
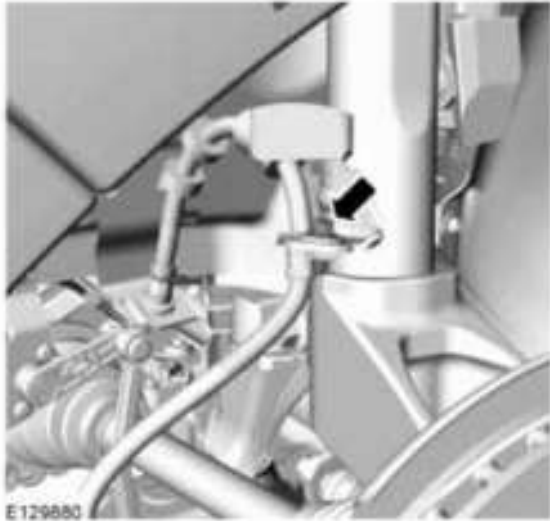


Fig. 36: Inserting Intermediate Shaft
Courtesy of FORD MOTOR CO.

3. Connect the following items:
 - 1.
 2. *Torque : 5 Nm*
 3. *Torque : 5 Nm*
 4. *Torque : 25 Nm*
 5. *Torque : 25 Nm*



4. **Fig. 37: Installing Lower Arm And Wheel Knuckle**
Courtesy of FORD MOTOR CO.



5. **Fig. 38: Locating Front Halfshaft Bracket Bolt**
Courtesy of FORD MOTOR CO.

6.
7. Refer to: **Transmission Fluid Level Check** .
8. *Torque : 10 Nm*

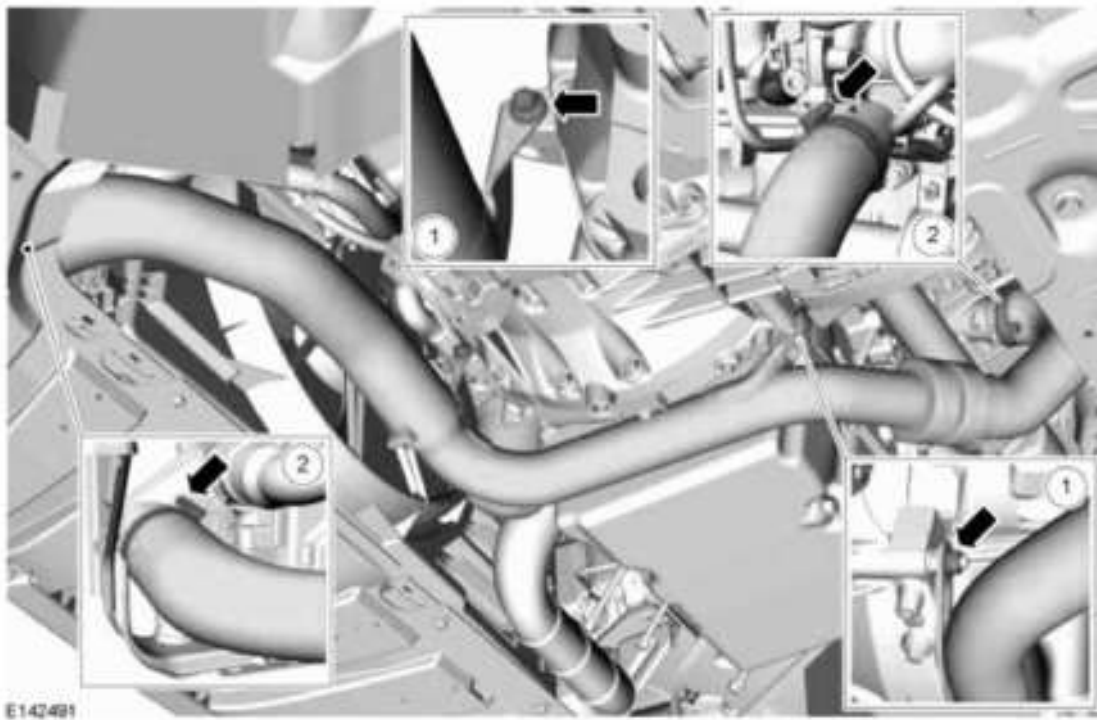


Fig. 39: Locating Turbocharger Hoses Clamps And Bolts
Courtesy of FORD MOTOR CO.

9.
1. If equipped.

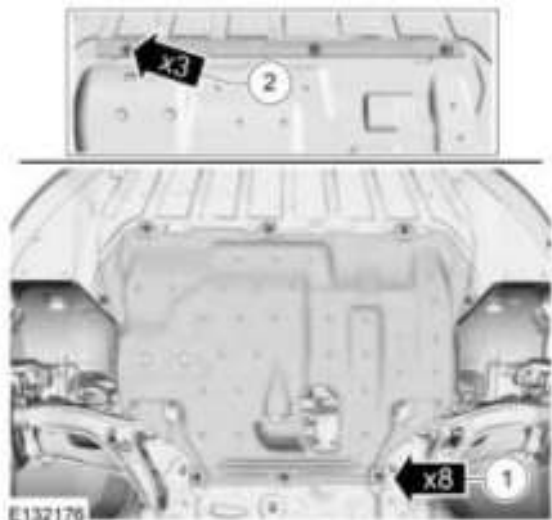


Fig. 40: Locating Engine Lower Cover Fasteners
 Courtesy of FORD MOTOR CO.

HALFSHAFT SEAL LH

SPECIAL TOOL(S) / GENERAL EQUIPMENT

| | |
|--|-------------------------------------------------------------------------------------------------|
| | <p>205-115 Installer, Drive Pinion Seal TKIT-2000-F/FM/FLM</p> |
|--|-------------------------------------------------------------------------------------------------|

Removal

1. Refer to: **Health and Safety Precautions** (**HEALTH AND SAFETY PRECAUTIONS**).
 Refer to: **Jacking and Lifting - Overview** (**JACKING AND LIFTING - OVERVIEW**).
2.
 1. If equipped.

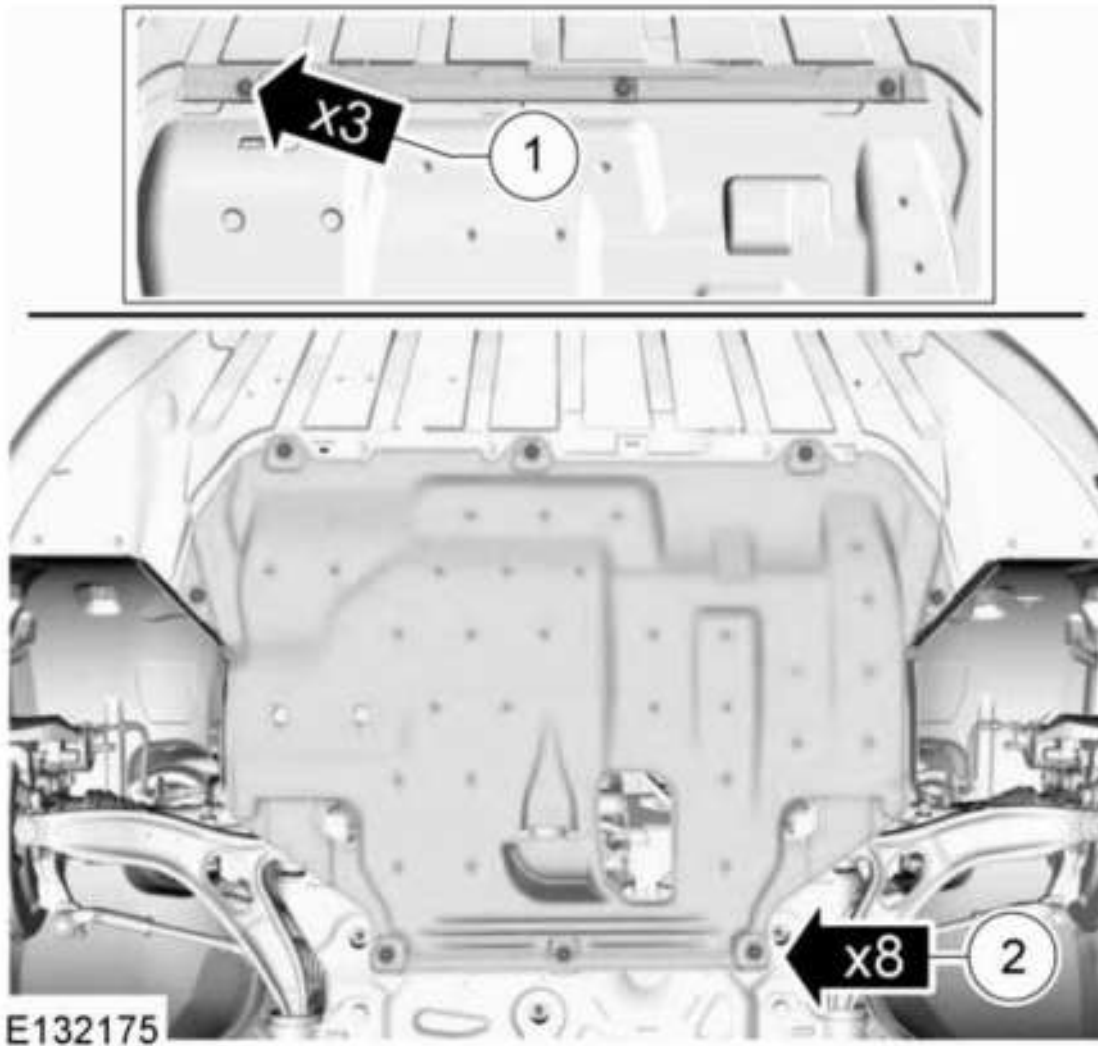


Fig. 41: Locating Engine Lower Cover Fasteners
Courtesy of FORD MOTOR CO.

3. Remove the LH halfshaft.

Refer to: **Front Halfshaft LH (FRONT HALFSHAFT LH)**.



- 4.

Fig. 42: Identifying Halfshaft Seal
Courtesy of FORD MOTOR CO.

Installation

1. *Special Tool(s)* : 205-115 (Installer, Drive Pinion Seal)

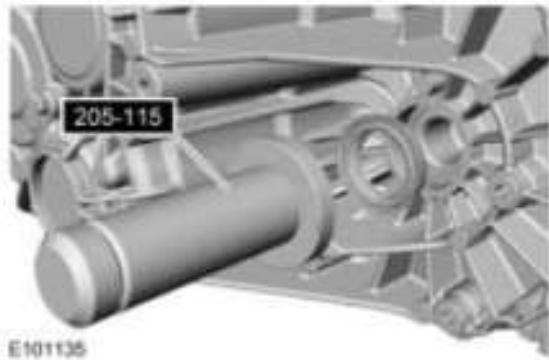


Fig. 43: Installing Drive Pinion Seal
Courtesy of FORD MOTOR CO.

2. Install the LH halfshaft.

Refer to: **Front Halfshaft LH (FRONT HALFSHAFT LH)**.

Refer to: **Transmission Fluid Level Check** .

3.
 1. If equipped.



Fig. 44: Locating Engine Lower Cover Fasteners
Courtesy of FORD MOTOR CO.

4. Lower the Vehicle.

SELECTOR MECHANISM

MATERIALS SPECIFICATIONS

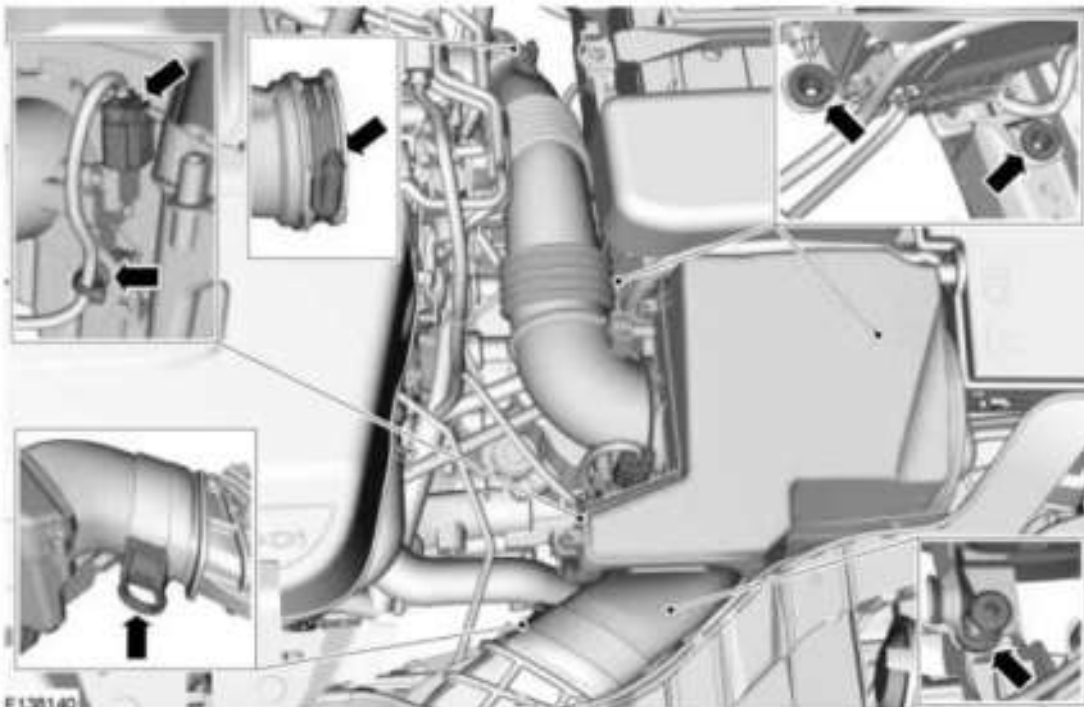
| Name | Specification |
|-----------------------|---------------|
| Gasket Maker TA-16 | WSK-M2G348-A5 |

Removal

WARNING: Before beginning any service procedure in this service information, refer to **Safety Warnings** in **SERVICE INFORMATION** General Information. Failure to follow this instruction may result in serious personal injury.

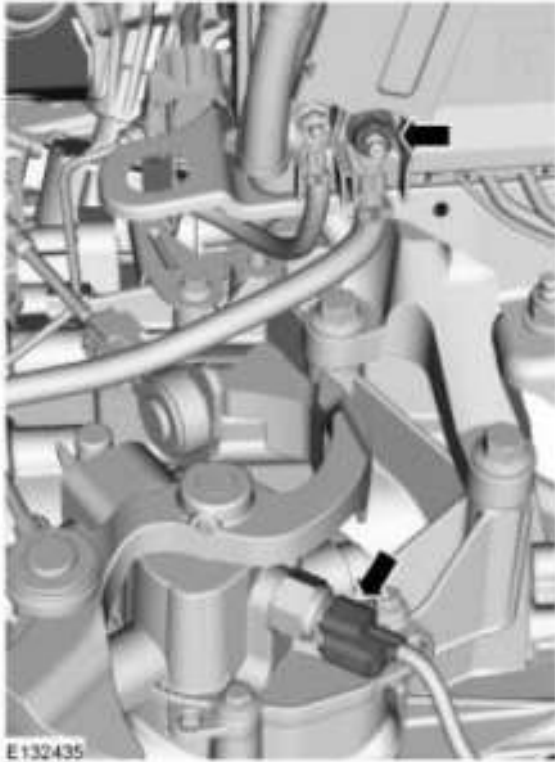
1. Refer to: **Health and Safety Precautions** (**HEALTH AND SAFETY PRECAUTIONS**).

Refer to: **Battery Disconnect and Connect** (**BATTERY DISCONNECT AND CONNECT**).



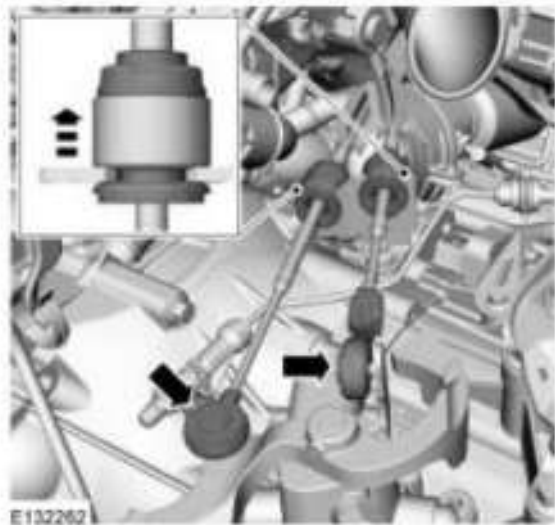
- 2.

Fig. 45: Identifying Air Intake Hose Clamp Bolt, Selector Cable Connector And Washers
Courtesy of FORD MOTOR CO.



3.

Fig. 46: Locating Selector Cable Connector And Bracket Bolt
Courtesy of FORD MOTOR CO.



4.

Fig. 47: Locating Selector Cable End
Courtesy of FORD MOTOR CO.

5. Set the manual shift lever in the neutral (N) position.

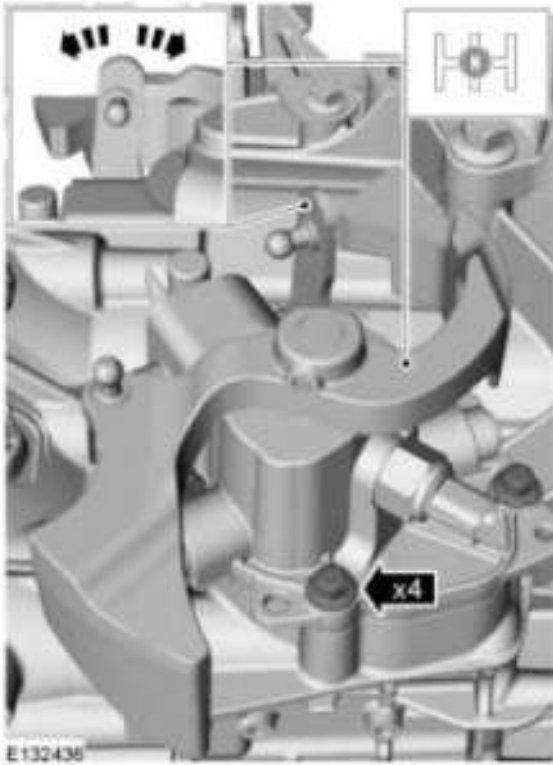


Fig. 48: Identifying Manual Shift Lever In Neutral (N) Position
Courtesy of FORD MOTOR CO.

6. Set the manual shift lever in the neutral (N) position.

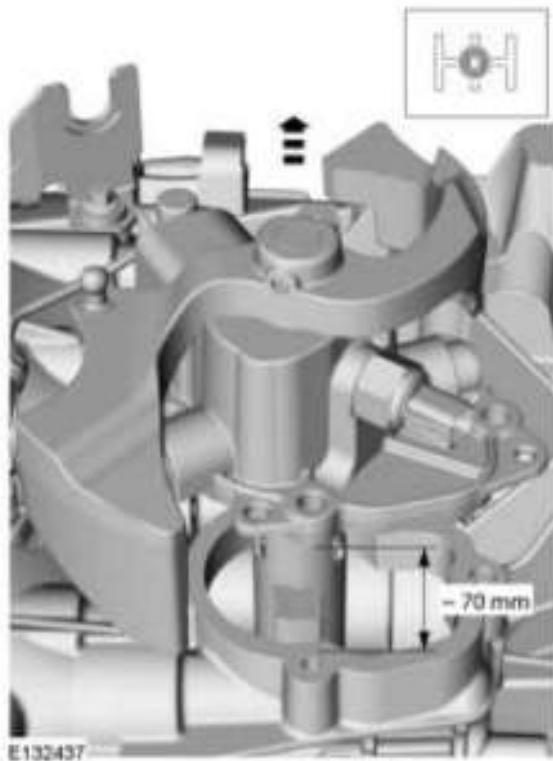


Fig. 49: Identifying Manual Shift Lever Loosening Dimension

Courtesy of FORD MOTOR CO.

7.

1. Set the manual shift lever in the neutral (N) position. Turn the component CW through 90 degrees.
2. **NOTE:** **Make sure that no components catch.**

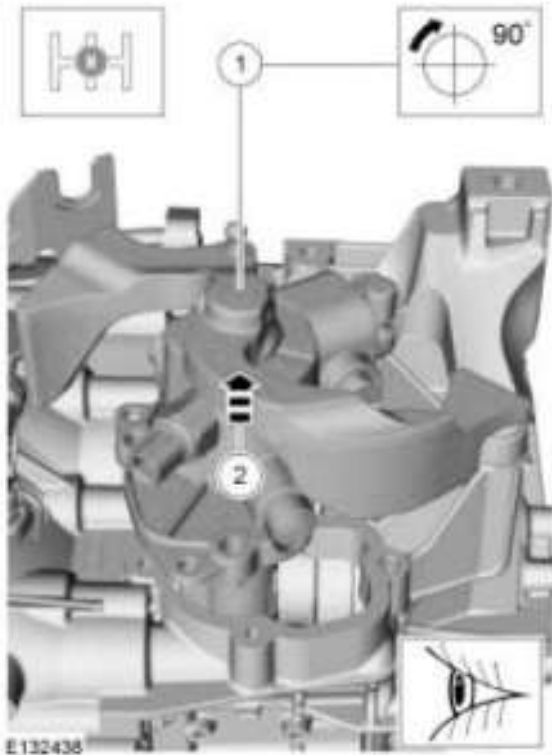


Fig. 50: Turning Manual Shift Lever
Courtesy of FORD MOTOR CO.

Installation

1. *Material* : Gasket Maker / TA-16 (WSK-M2G348-A5)

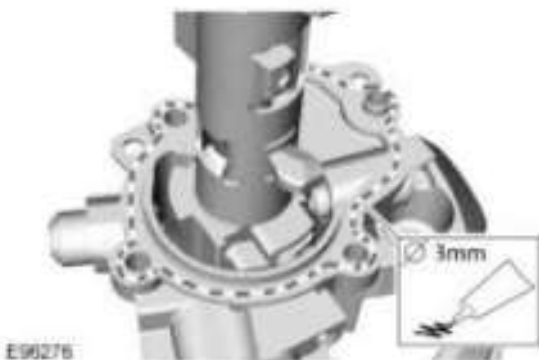


Fig. 51: Identifying Transmission Gasket Applying Area
Courtesy of FORD MOTOR CO.

2.

NOTE: Make sure that no components catch.

1. Set the manual shift lever to the neutral (N) position. Visual check.

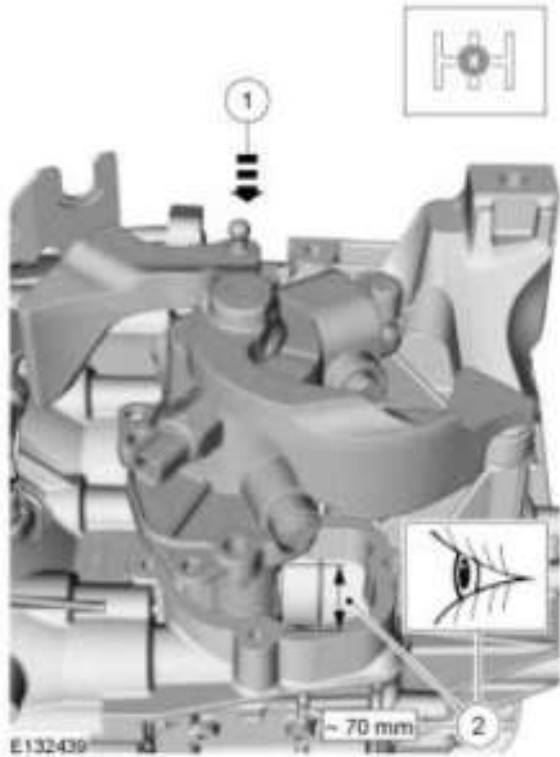


Fig. 52: Checking Manual Shift Lever Position
Courtesy of FORD MOTOR CO.

3.

1. Set the manual shift lever to the neutral (N) position. Turn the component CCW through 90 degrees.
2. **NOTE: Make sure that no components catch.**

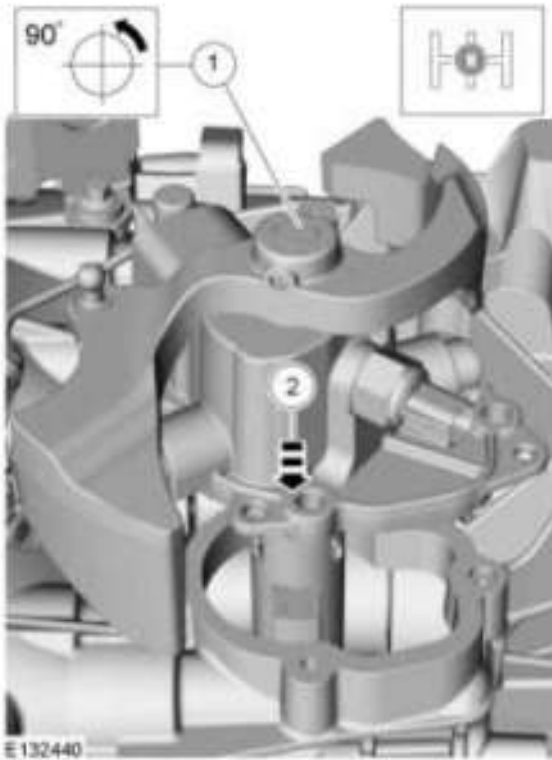


Fig. 53: Turning Manual Shift Lever
Courtesy of FORD MOTOR CO.

4. *Torque* : 26 Nm

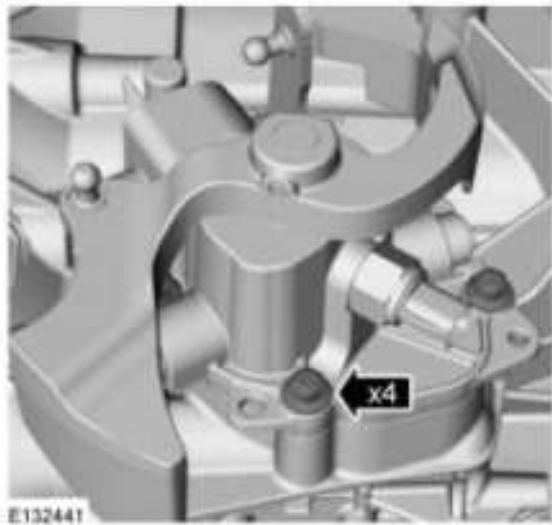


Fig. 54: Locating Selector Lever Bolts
Courtesy of FORD MOTOR CO.

5. Refer to: **Gearshift Cable Adjustment - Vehicles With: 6-Speed Manual Transmission - MMT6 .**

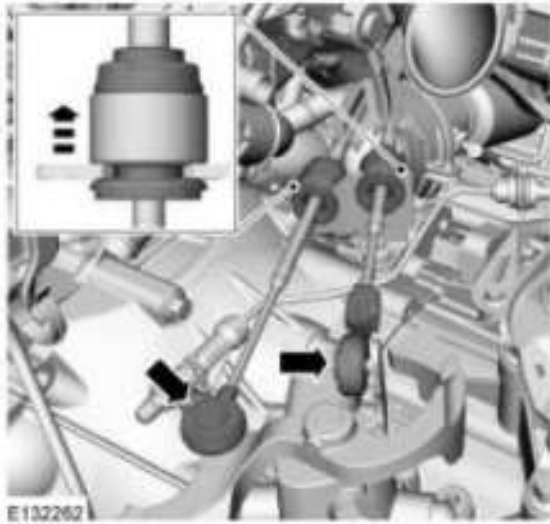


Fig. 55: Locating Selector Cable End
Courtesy of FORD MOTOR CO.

6. *Torque* : 24 Nm

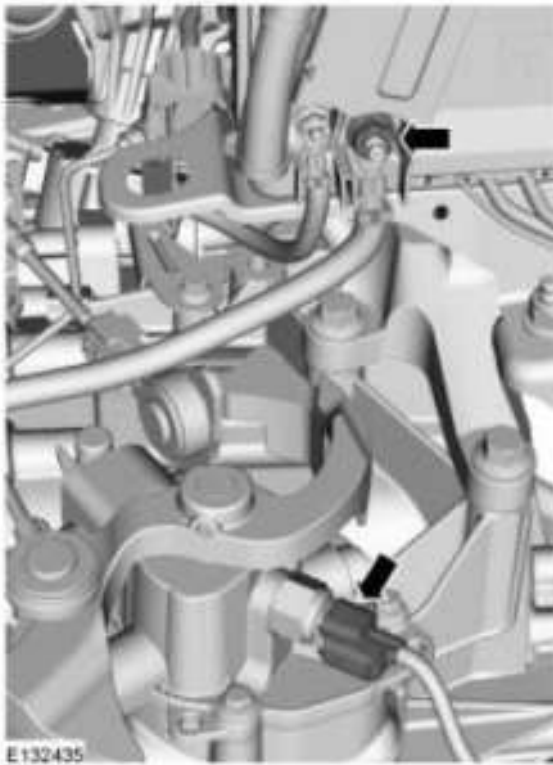
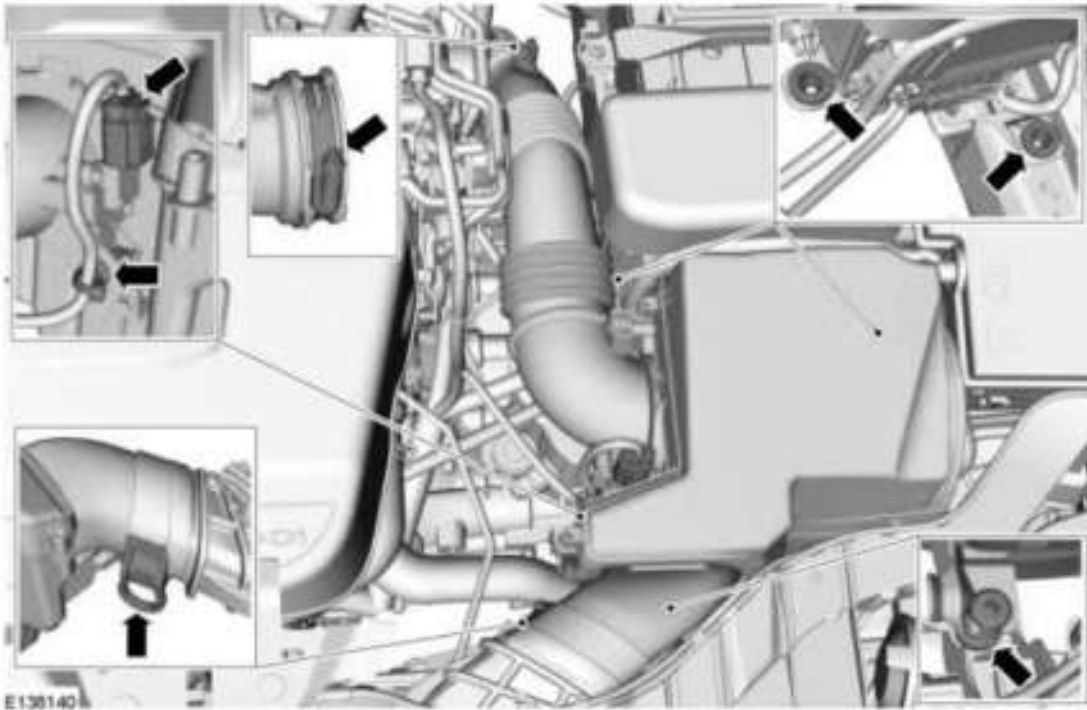


Fig. 56: Locating Selector Cable Connector And Bracket Bolt
Courtesy of FORD MOTOR CO.



7.

Fig. 57: Identifying Air Intake Hose Clamp Bolt, Selector Cable Connector And Washers
 Courtesy of FORD MOTOR CO.

8. Refer to: **Battery Disconnect and Connect** (**BATTERY DISCONNECT AND CONNECT**).

INPUT SHAFT SEAL

SPECIAL TOOL(S) / GENERAL EQUIPMENT

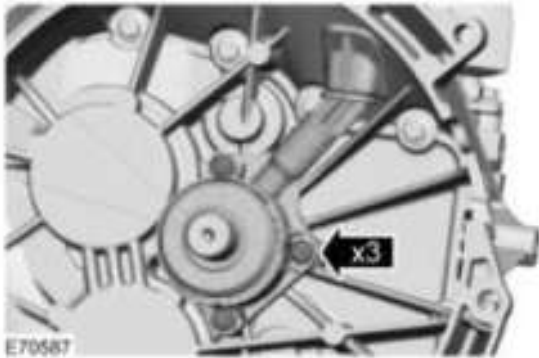
| | |
|----------------------|-----------------------------------------------------------------|
| | <p>308-112 Installer, Output Drive Flange Seal</p> |
| <p>Adhesive Tape</p> | |

Removal

WARNING: Before beginning any service procedure in this service information, refer to **Safety Warnings** in **SERVICE INFORMATION**

General Information. Failure to follow this instruction may result in serious personal injury.

1. Refer to: **Health and Safety Precautions** (**HEALTH AND SAFETY PRECAUTIONS**).
2. Refer to: **Removal** .



3. **Fig. 58: Locating Input Shaft Bracket Bolts**
Courtesy of FORD MOTOR CO.

4. **NOTE:** Take extra care not to damage the bearing.

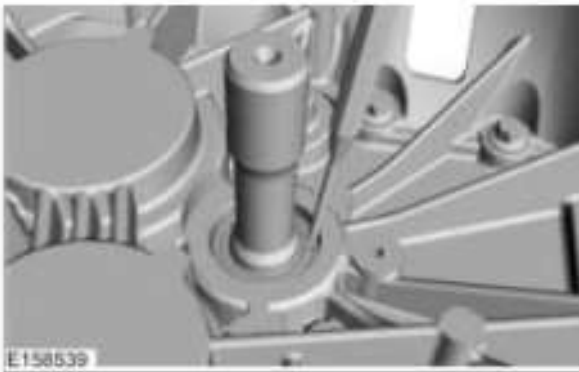


Fig. 59: Removing Input Shaft Seal
Courtesy of FORD MOTOR CO.

5.
 1. 2.5 x 15 mm self-tapping screw. Screwdriver. Turn the component CW through 2 complete turns.
 2. Combination pliers.

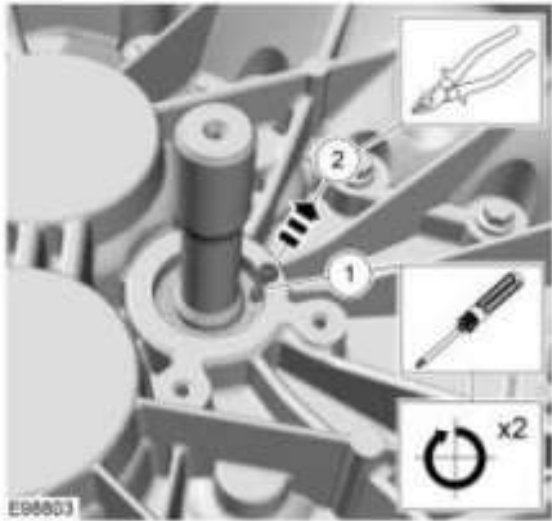


Fig. 60: Removing Input Shaft Seal Screw
 Courtesy of FORD MOTOR CO.

Installation

1.

NOTE: Use adhesive tape to cover the input shaft splines to prevent damage to the input shaft seal.

1. Apply tape to specified component or area.

General Equipment : Adhesive Tape

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

3. *Special Tool(s)* : 308-112 (Installer, Output Drive Flange Seal)

4. Discard the specified component. Follow local disposal regulations.

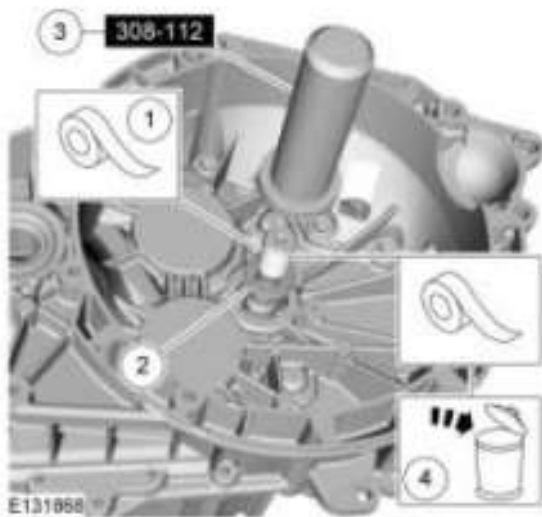


Fig. 61: Installing Output Drive Flange Seal
Courtesy of FORD MOTOR CO.

2. Torque : 11 Nm

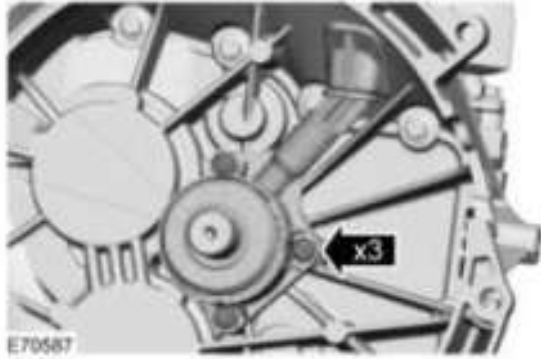


Fig. 62: Locating Input Shaft Bracket Bolts
Courtesy of FORD MOTOR CO.