

Steering Gear

Special Tool(s) / General Equipment

Steering Wheel Holder

Removal

NOTICE: While repairing the power steering system, care should be taken to prevent the entry of contaminants or failure of the power steering components may result.

NOTICE: The steering gear bolts must not be reused. The threads of the bolts are coated with a dry adhesive. When the bolts are removed, the dry adhesive is degraded. If the bolts are reused, failure of the bolts and/or steering gear may occur.

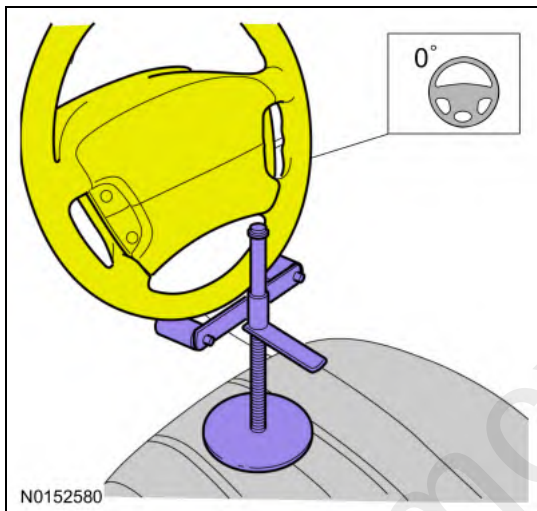
NOTICE: Do not allow the steering column shaft to rotate while the intermediate shaft is disconnected or damage to the clockspring can result. If there is evidence that the shaft has rotated, the clockspring must be removed and recentered. Refer to Section 501-20B for additional information.

NOTICE: The sector shaft arm-to-sector shaft nut must not be reused. The threads of the nut are coated with a dry adhesive. When the nut is removed, the dry adhesive is degraded. If the nut is reused, failure of the nut and/or sector shaft arm and shaft may occur.

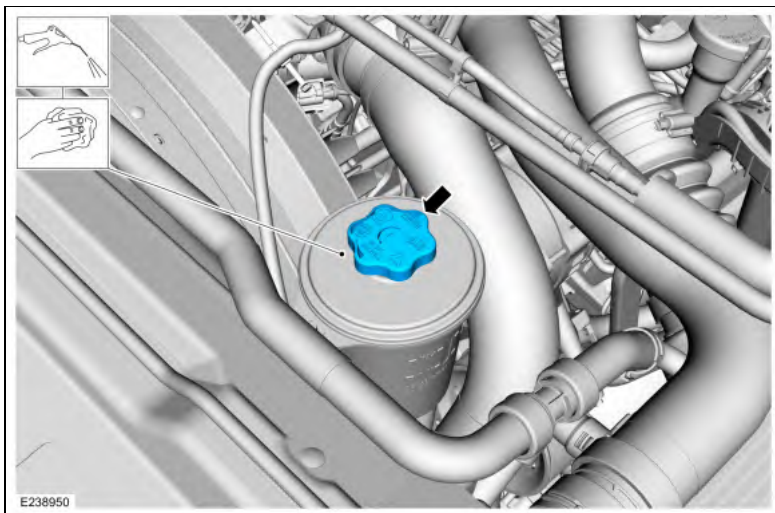
NOTICE: New O-ring seals must be installed on the pressure and return line/hose fittings or a fluid leak may occur.

NOTE: Removal steps in this procedure may contain installation details.

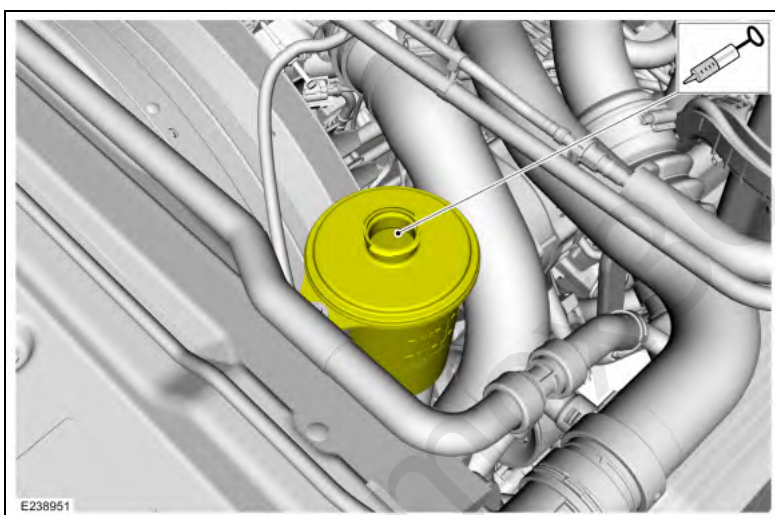
1. Hold the steering wheel in the straight-ahead position.
Use the General Equipment: Steering Wheel Holder



2.
 1. Clean the area around the power steering fluid reservoir cap.
 2. Remove the power steering fluid reservoir cap.



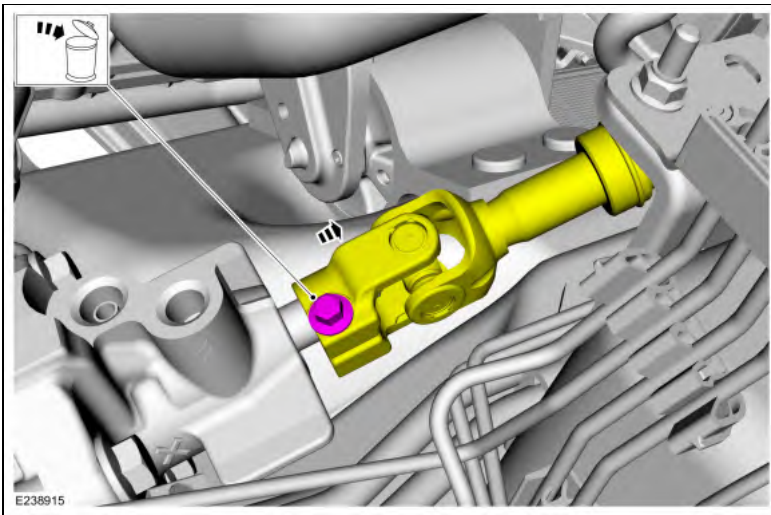
3. Using a suction gun remove the power steering fluid.



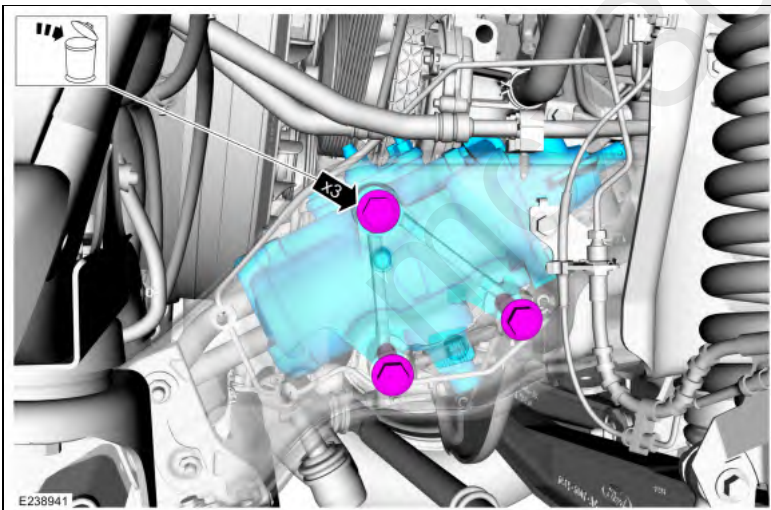
4. Remove the LH fender splash shield to access the steering gear.
Refer to: Fender Splash Shield (501-02 Front End Body Panels, Removal and Installation).
5. Remove the sector shaft arm
Refer to: Sector Shaft Arm (211-03 Steering Linkage, Removal and Installation).
6.
 1. Disconnect the power steering fluid return line.
Torque: 26 lb.ft (35 Nm)
 2. Disconnect the power steering fluid pressure line.
Torque: 26 lb.ft (35 Nm)
 3. Unclip and position aside the power steering fluid lines.



- Torque: 22 lb.ft (30 Nm)*



9. Remove and discard the steering gear bolts and remove the steering gear.
Torque: 295 lb.ft (400 Nm)



Installation

1. To install, reverse the removal procedure.
2. Fill the power steering system.
Refer to: Power Steering System Filling (211-02 Power Steering, General Procedures).
3. Check and if necessary, adjust front toe.
Refer to: Front Toe Adjustment - F-250/F-350, RWD (204-00 Suspension System - General Information, General Procedures).
Refer to: Front Toe Adjustment - F-250/F-350/F-450/F-550, 4WD (204-00 Suspension System - General Information, General Procedures).

