




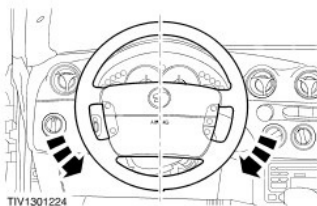


**Power Steering Pump to Steering Gear Pressure Line****Special Tool(s)**

|   |   |
|---|---|
| <br>D90P3517A  | Expander, Teflon Seal, or equivalent 211-D027 (D90P-3517-A)   |
| <br>ST1408A    | Separator, Ball Joint 211-001 (TOOL-3290-D)                   |
| <br>T69L10300B | Remover, Pulley, Power Steering Pump 211-016 (T69L-10300-B)   |
| <br>ST1586A    | Installer, Pulley, Power Steering Pump 211-185 (T91P-3A733-A) |
| <br>T94P2100AH | Alignment Pins, Subframe 502-002 (T94P-2100-AH)               |

**Removal****All Vehicles**

1. Disconnect the battery ground cable.
2. Center the steering wheel.
  - Lock in position, remove the ignition key.



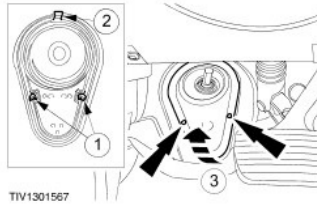
3. Disconnect the steering column shaft from the flexible coupling.
  - Rotate the clamp plate to disengage.



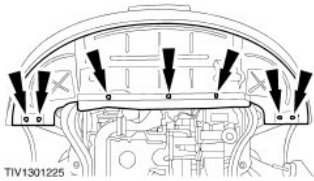
4.  **CAUTION:** When removing the floor seal do not damage the sealing clips.

Remove the floor seal from the bulkhead.

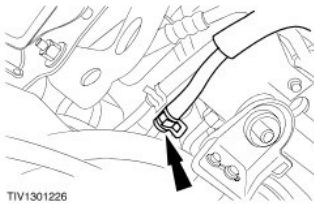
1. Release the retaining clips.
2. Disconnect the upper retaining clip.
3. Remove the floor seal.



5. Loosen the left-hand side front wheel nuts.
6. Raise and support the vehicle. For additional information, refer to Section [100-02](#).
7. Remove the wheel.
8. Remove the radiator splash shield.



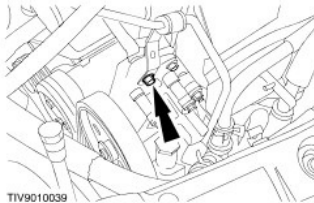
9. Disconnect the fluid cooler line.
  - Allow the fluid to drain into a suitable container.



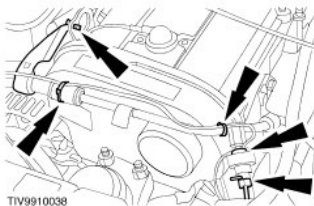
10. Lower the vehicle.

#### Vehicles with 2.0L engine

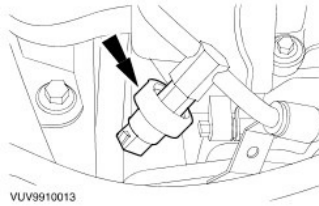
11. Detach the high-pressure tube support bracket.



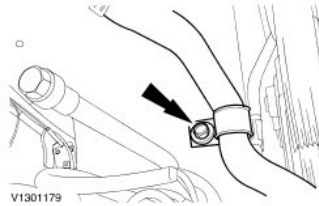
12. Detach the high-pressure tube.
  - Disconnect the power steering pressure (PSP) switch electrical connector.
  - Detach the tube support bracket.
  - Cut the three cable ties.



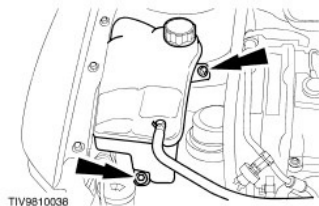
13. Remove the PSP switch.



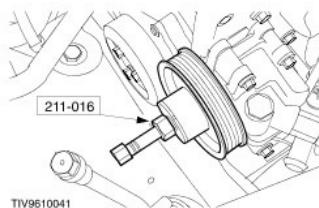
14. Remove the accessory drive belt. For additional information, refer to Section [303-05](#).
15. Lower the vehicle.
16. Detach the coolant hose clamp.



17. Detach the coolant expansion tank.
  - Position the tank to one side.



18. Using the special tool, remove the power steering pump pulley.

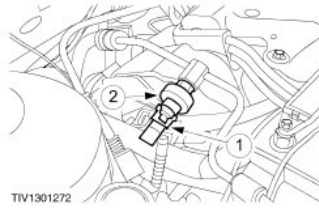


19. Disconnect the power steering pump high-pressure tube union.
  - Allow the fluid to drain into a suitable container.



#### Vehicles with 2.5L engine

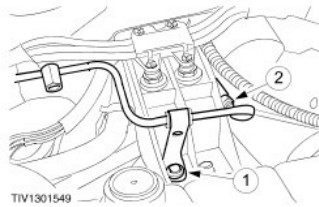
20. Remove the power steering pressure (PSP) switch.
  1. Disconnect the electrical connector.
  2. Remove the switch.



21. **⚠ CAUTION:** Make sure the power steering fluid does not contaminate the accessory drive belt.

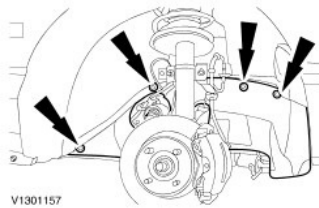
Disconnect the high-pressure tube union.

1. Detach the clamp.
2. Disconnect the tube union.
  - Allow the fluid to drain into a suitable container.



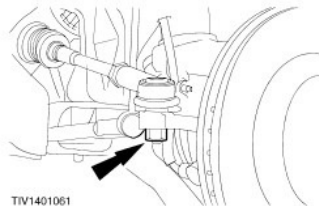
#### All Vehicles

22. Raise and support the vehicle.
23. Remove the two splash shields (wheel removed for clarity).



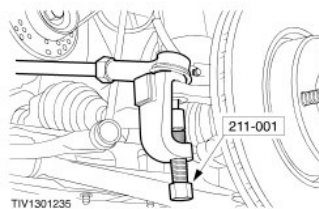
#### Vehicles with 2.5L engine

24. Remove the right-hand side tie-rod end retaining nut.

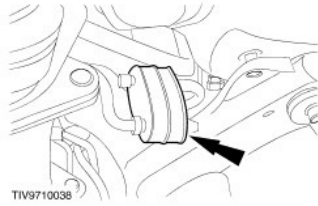


25. **NOTE:** When the tie-rod end is separated from the wheel knuckle the ball joint seal should be protected to prevent damage.

Using the special tool, separate the right-hand tie-rod end from the wheel knuckle.

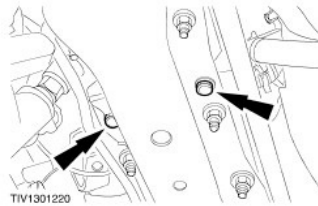


26. Remove the front exhaust hanger insulator.



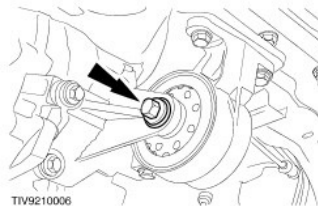
#### Vehicles with automatic transaxle

27. Detach the rear support insulator.



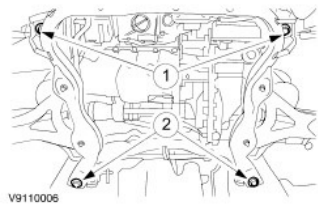
#### Vehicles with manual transaxle

28. Remove the rear support insulator center bolt.

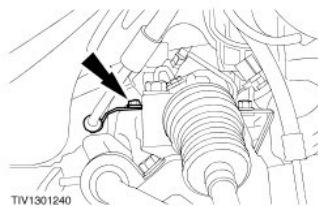


#### All Vehicles

29. Lower the subframe.
1. Loosen the subframe front bolts two complete turns.
  2. Remove the subframe rear bolts.

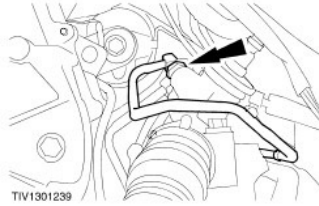


30. Detach the high-pressure tube support bracket.



31. **⚠ CAUTION:** Where the steering gear unions are disconnected, the steering gear valve body ports should be plugged to prevent dirt ingress.

Disconnect the high-pressure tube union.

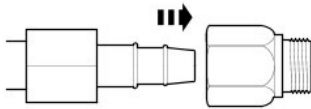


32. Remove the high-pressure tube.

### Installation

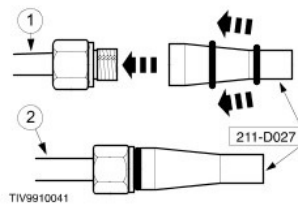
#### All Vehicles

1. If a new tube is to be installed, push the new tube into the new union.

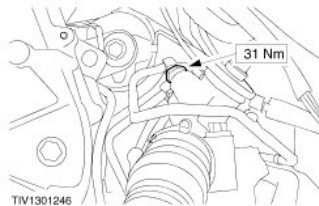


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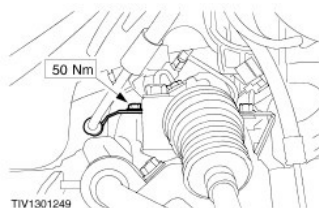
2. Using the special tool, install a new union O-ring seal.
  1. Push the new O-ring seal onto the special tool.
  2. Locate the tool on the union and push on the new O-ring seal.



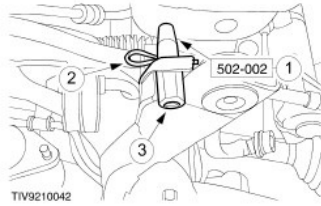
3. Connect the high-pressure tube union.



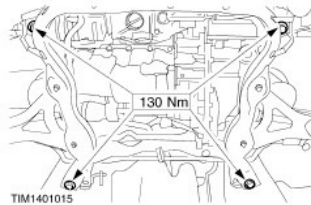
4. Install the high-pressure tube support bracket.



5. Using the special tool, align the subframe.
  1. Install the alignment pins in the subframe aligning pins.
  2. Install the locking pins.
  3. Tighten the alignment pin sleeve.



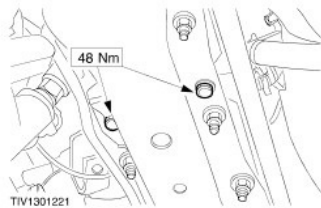
6. Install and secure the subframe bolts.



7. Remove the special tool (subframe alignment pins).

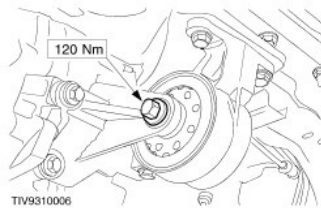
#### Vehicles with automatic transaxle

8. Install the rear support insulator.



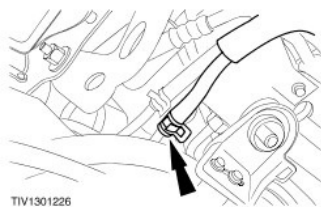
#### Vehicles with manual transaxle

9. Install the rear support insulator center bolt.

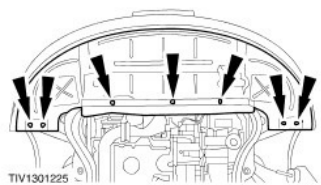


#### All Vehicles

10. Connect the fluid cooler line.

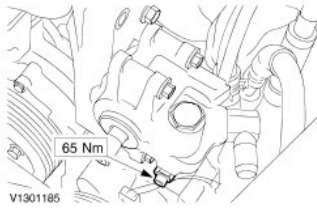


11. Install the radiator splash shield.



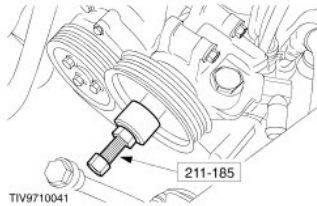
**Vehicles with 2.0L engine**

12. Lower the vehicle.
13. Install the high-pressure tube union to the power steering pump.

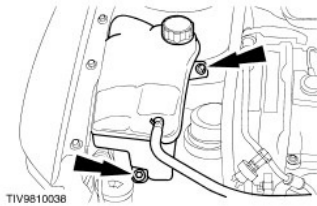


14. **NOTE:** Make sure the pulley is flush with the end of the pump shaft.

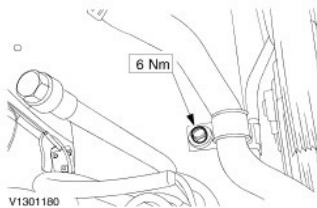
Using the special tool, install the power steering pump pulley.



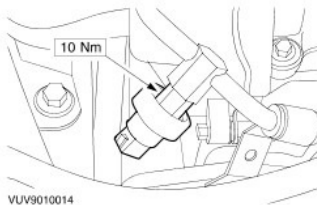
15. Install the coolant expansion tank.



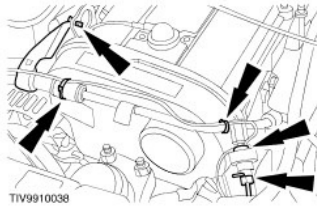
16. Install the coolant hose clamp.



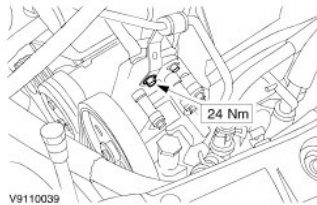
17. Install the PSP switch.



18. Install the high-pressure tube.
  - Connect the PSP switch electrical connector.
  - Install the tube support bracket.
  - Install three new cable ties.



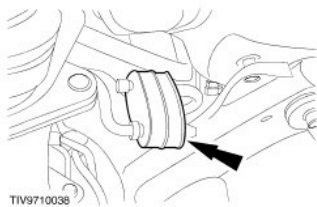
19. Install the high-pressure tube support bracket.



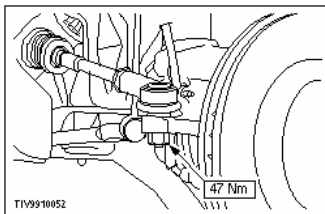
20. Raise and support the vehicle. For additional information, refer to Section [100-02](#).
21. Install the accessory drive belt. For additional information, refer to Section [303-05](#).

#### Vehicles with 2.5L engine

22. Install the front exhaust hanger insulator.

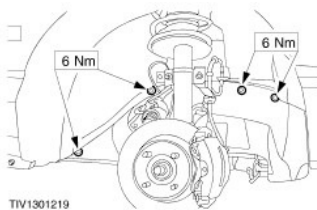


23. Connect the tie-rod end.

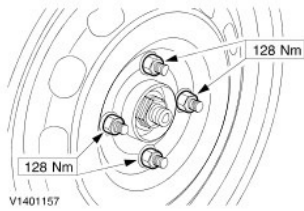


#### All Vehicles

24. Install the two splash shields.



25. Install the front wheel.

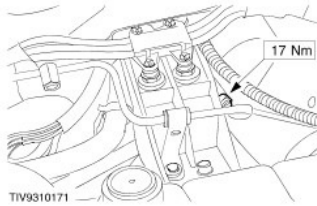


26. **⚠ CAUTION:** Make sure the steering is in the straight-ahead position.

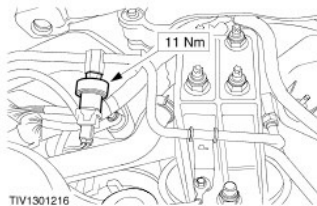
Lower the vehicle.

#### Vehicles with 2.5L engine

27. Install the high-pressure tube union.

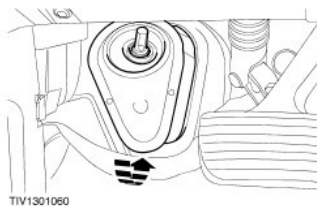


28. Install the PSP switch.
- Connect the electrical connector.



#### All Vehicles

29. Install the floor seal.



30. **⚠ WARNING:** Install a new pinch bolt. Failure to follow this instruction may result in personal injury.

Connect the steering column shaft to the flexible coupling.



31. Connect the battery ground cable.
32. Bleed the power steering system. For additional information, refer to Section [211-00](#).

