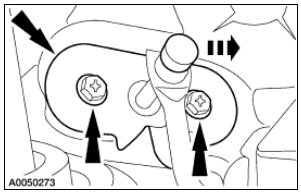
Steering Column Shaft Lower

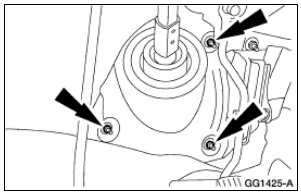
1. Position the steering wheel in the straight-ahead position and lock the steering wheel.

2. **NOTE:** Position the carpet back to access the retainers.

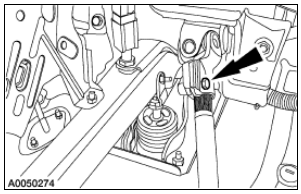
   Remove the two bolts. Position aside the accelerator cable bracket.



3. Remove the steering column opening cover nuts.
   - Remove the nuts.

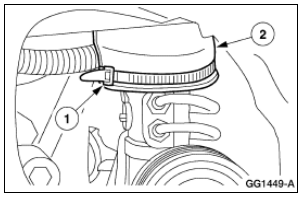


4. Remove the steering column clamp bolt.

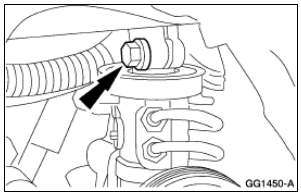


5. Raise and support the vehicle. For additional information, refer to Section 100-02 .

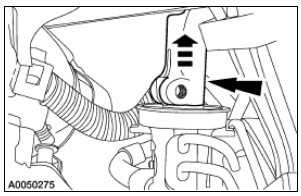
6. Position the steerng gear dust seal out of the way.
   1. Remove the steering gear dust seal clamp.
   2. Position the steering gear dust seal out of the way.



7. Remove the lower steering column shaft clamp bolt.

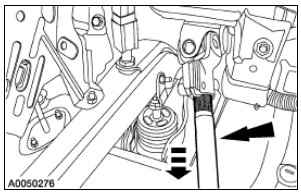


8. Slide the lower steering column shaft from the power steering rack.

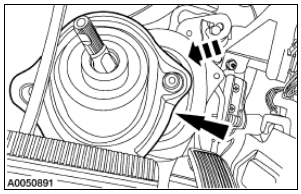


9. Lower the vehicle.

10. Remove the upper shaft from column.



11. Remove the lower steering column shaft and cover from the vehicle.

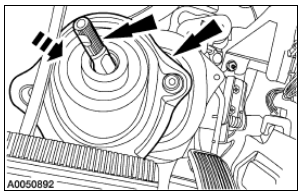


12. Lower the vehicle.

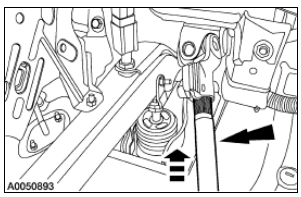
Installation

1. **NOTE:** At this time do not position the shaft cover all the way down.

   Install the lower steering column shaft and cover.

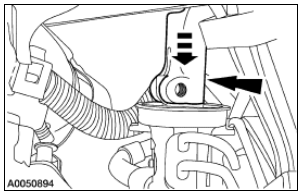


2. Install the upper shaft back into the steering column.

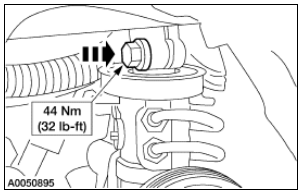


3. Raise the vehicle.

4. Slide the lower steering column shaft back on the power steering rack.

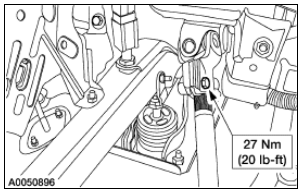


5. Install the lower steering column shaft clamp bolt.

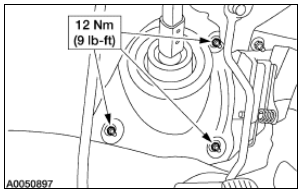


6. Lower the vehicle.

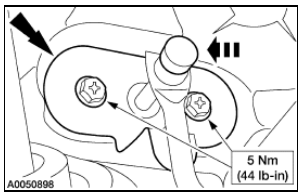
7. Install the steering column clamp bolt.



8. Position the steering column cover down, install the three bolts and reposition the carpet.

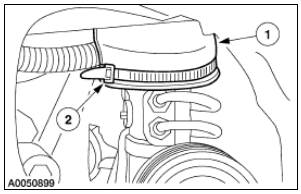


9. Position back the accelerator cable bracket and install two bolts.



10. Raise the vehicle.

11. Position the steering gear dust seal.
    1. Install an position the steering gear dust shield.
    2. Install the steering gear dust seal clamp.



12. Lower the vehicle.

Steering Column

1. The steering column tube is not serviceable and must be replaced as an assembly.

Steering Column Switches

The Steering Column Switches consist of the following components:

- Multi-function switch (13K359)
- Turn signals (part of 13K359)
- Headlamp dimmer (part of 13K359)
- Headlamp flash-to-pass (part of 13K359)
- Hazard warnings (part of 13K359)
- Cornering lamps (part of 13K359)
- Windshield washer/wipers (part of 13K359)
- Ignition switch (11572)

Steering Column Switches

Refer to Wiring Diagrams Cell 13 , Power Distribution for schematic and connector information.

Refer to Wiring Diagrams Cell 20 for schematic and connector information.

Special Tool(s)

ST1137-A	73 Digital Multimeter or equivalent 105-R051

Inspection and Verification

1. Verify the concern by operating the ignition switch and the multifunction switch to duplicate the condition.

2. Visually inspect for obvious signs of mechanical and electrical damage. Refer to the following chart:

Visual Inspection Chart

Mechanical	Electrical
• Ignition key • Ignition switch • Turn signal switch • Hazard/flasher switch • Wiper/washer switch	• Battery junction box (BJB) FusesF23 (30A), F2 (15A). • Central junction box (CJB) Fuses F38 (7.5A), F36 (7.5A), F40 (20A), F42 (7.5A). • Connectors or connections • Circuitry

3. If binding occurs, turn the steering wheel left or right to release any pressure on the ignition switch and verify that the ignition key is cut properly.

4. If the fault is not visually evident, verify the symptom and proceed to the Symptom Chart for further diagnosis.

Symptom Chart

Refer to the Wiring Diagrams for connector numbers stated in the Pinpoint Tests.

SYMPTOM CHART
Pinpoint Tests

PINPOINT TEST A: PINPOINT TEST A: THE IGNITION SWITCH IS INOPERATIVE

PINPOINT TEST B: PINPOINT TEST B: NO POWER IN ACC

PINPOINT TEST C: PINPOINT TEST C: NO POWER IN RUN

PINPOINT TEST D: PINPOINT TEST D: NO POWER IN START

Component Test

Ignition Switch Continuity Check

Refer to Wiring Diagrams Cell 149 for schematic and connector information.

Multifunction Switch

Refer to Wiring Diagrams Cell 149 for schematic and connector information.

Ignition Switch Mechanical Test

NOTE: Do not apply lubricant to the inside of the ignition switch.

NOTE: If a binding condition occurs, turn the steering wheel left or right to release the possible load on the steering wheel. Also, verify that the ignition key is cut properly.

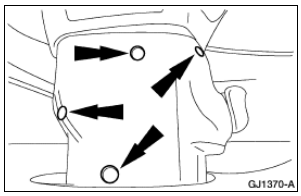
Inspect the ignition switch and the ignition switch lock cylinder for signs of binding. If there are signs of binding, repair or install a new ignition switch or ignition switch lock cylinder as necessary.

Multifunction Switch

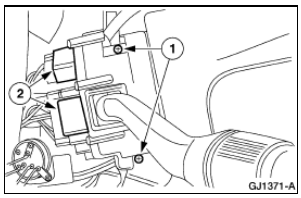
Removal

1. Disconnect the battery ground cable.

2. Remove the steering column upper and lower shroud.
   - Remove the four screws.



3. Remove the multifunction switch.
   1. Remove the screws.
   2. Disconnect the electrical connectors.



Installation

1. **NOTE:** When the battery is disconnected and reconnected, some abnormal drive symptoms may occur while the vehicle relearns its adaptive strategy. The vehicle may need to be driven 16km (10mi.) or more to relearn the strategy.

   To install, reverse the removal procedure.