

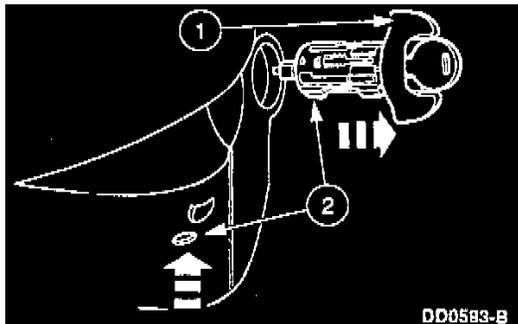
## Steering Column: Service and Repair

### Steering Column Shift Tube

#### REMOVAL

1. Disconnect the battery.

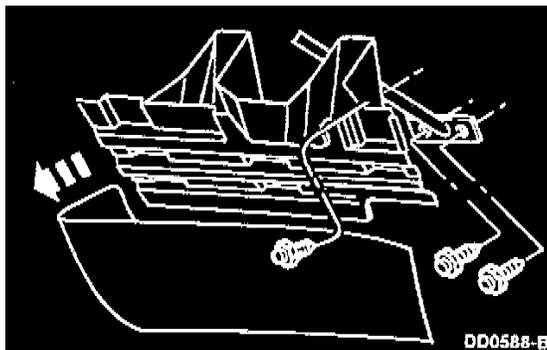
**WARNING:** On vehicles equipped with an auxiliary battery, both the negative and positive battery cables must be disconnected.



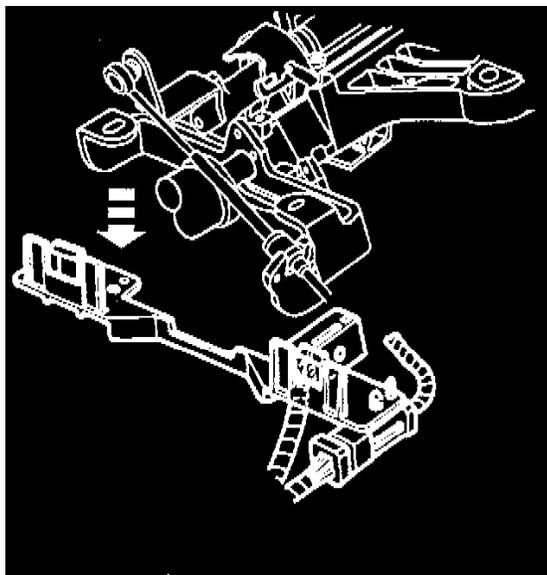
2. Remove the ignition switch lock cylinder.

(1) Position the lock cylinder to RUN.

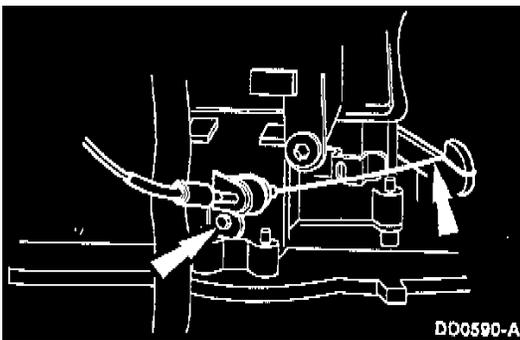
(2) Using a suitable tool, push upward on the cylinder release tab through the hole in the lower shroud while pulling the cylinder outward.



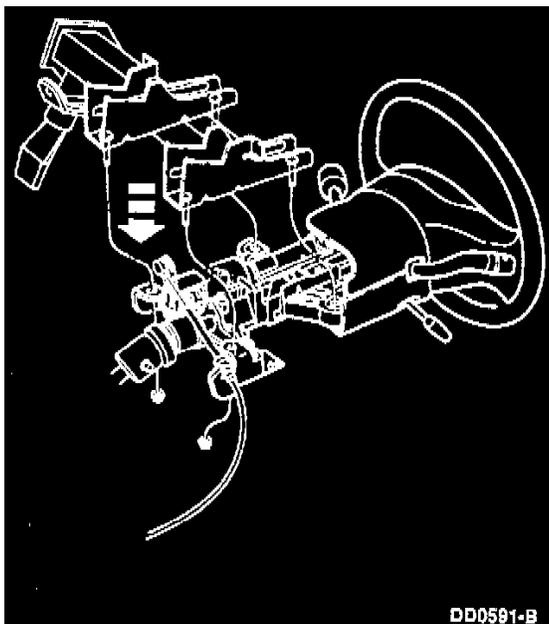
3. Remove the instrument panel steering column cover, the driver side knee brace and the instrument panel steering column opening cover reinforcement.



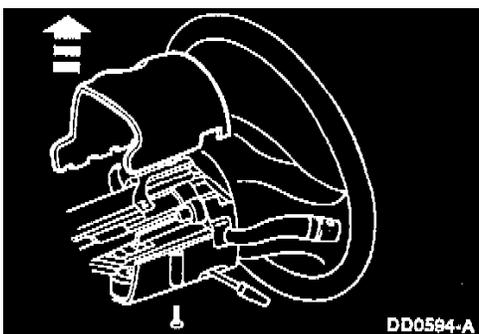
4. Disconnect all necessary harness connectors and separate the harness bracket from the steering column.



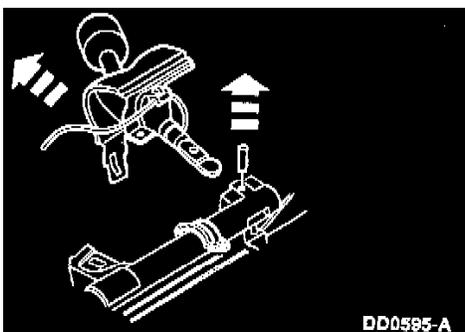
5. Remove the shift indicator cable and position it aside.



6. Remove the 4 nuts and lower the steering column.

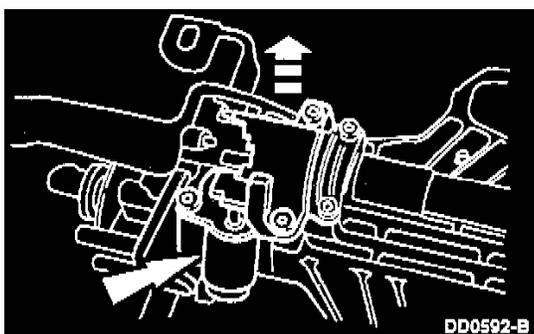


7. Remove the upper shroud.

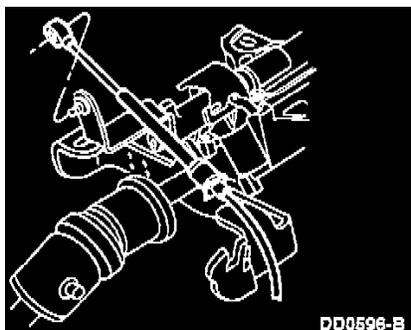


8. Remove the transmission range selector lever and position it aside.

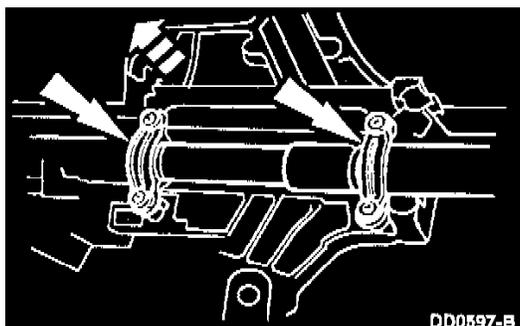
**NOTE:** The transmission range selector lever pin must be replaced whenever it is removed.



9. Remove the shift lock actuator and position it aside.

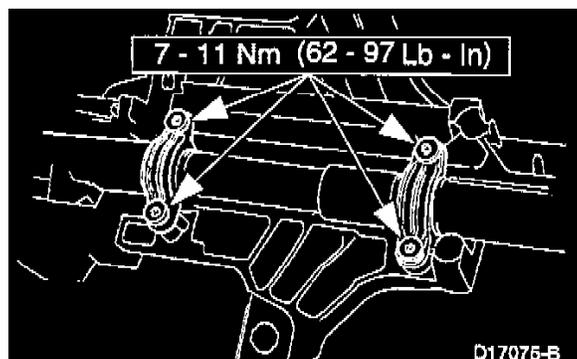


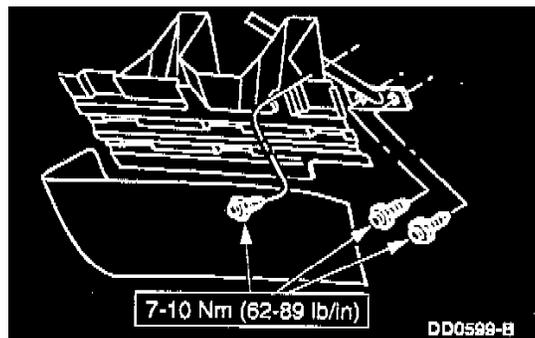
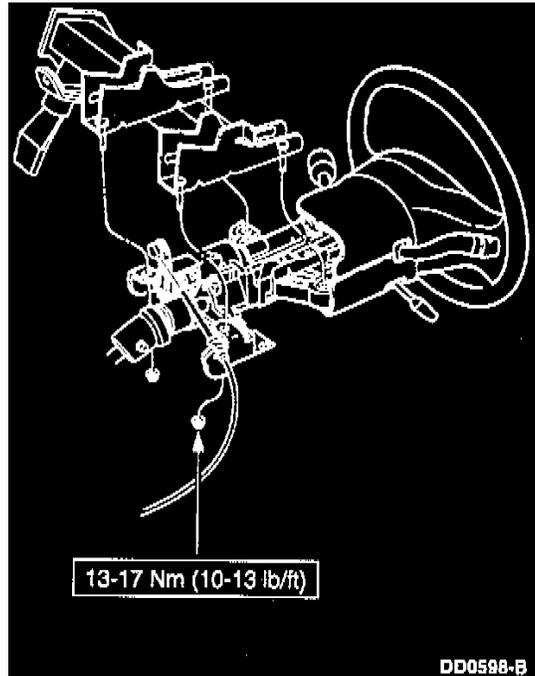
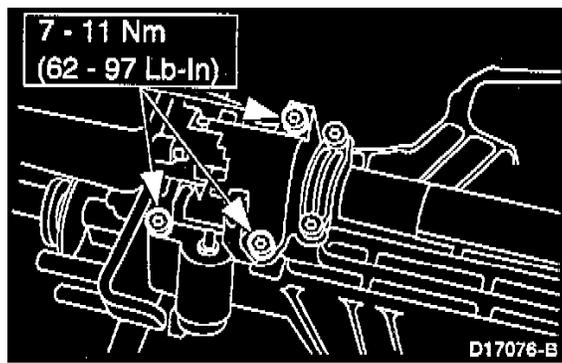
10. Disconnect the shift cable.



11. Remove the brackets and the shift selector tube.

## INSTALLATION





1. Follow the removal procedure in reverse order.

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

2. Make sure the shift cable and the shift indicator cable are properly adjusted. Verify shift lock actuator operation.