

## 2005 Ford Focus ZX4 S

### 2005 STEERING Steering Column - Focus

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## SPECIFICATIONS

### TORQUE SPECIFICATIONS

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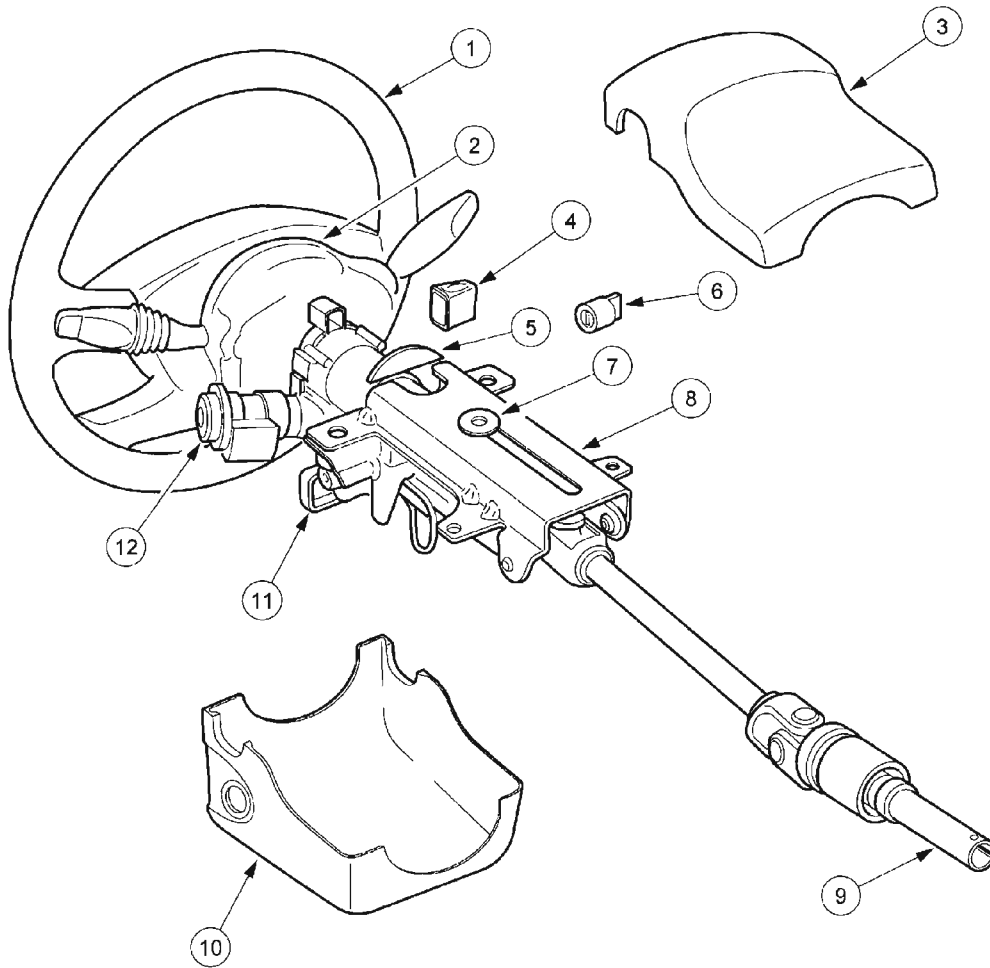
Description	Nm	lb-ft	lb-in
Driver air bag module screws	5	-	44
Hood release cable nut	20	15	-
Instrument panel lower panel bolts	9	-	80
Steering column mounting bolt	17	13	-
Steering column mounting nuts	16	12	-
Steering column shaft coupling bolt	28	21	-
Steering column sliding bolt	5	-	44
Steering wheel bolt	50	37	-

## DESCRIPTION AND OPERATION

### STEERING COLUMN

## 2005 Ford Focus ZX4 S

### 2005 STEERING Steering Column - Focus



A0095270

Item	Part Number	Description
1	—	Steering wheel
2	—	Clockspring
3	—	Steering column upper shroud
4	—	Audio control switch (if equipped)
5	—	Shield

Item	Part Number	Description
6	—	Ignition switch
7	—	Steering column sliding bolt
8	—	Steering column
9	—	Steering column shaft coupling
10	—	Steering column lower shroud
11	—	Four-way column adjust lever (if equipped)
12	—	Ignition switch lock cylinder

**Fig. 1: Identifying Steering Column Components**  
Courtesy of FORD MOTOR CO.

## DIAGNOSIS AND TESTING

### STEERING COLUMN

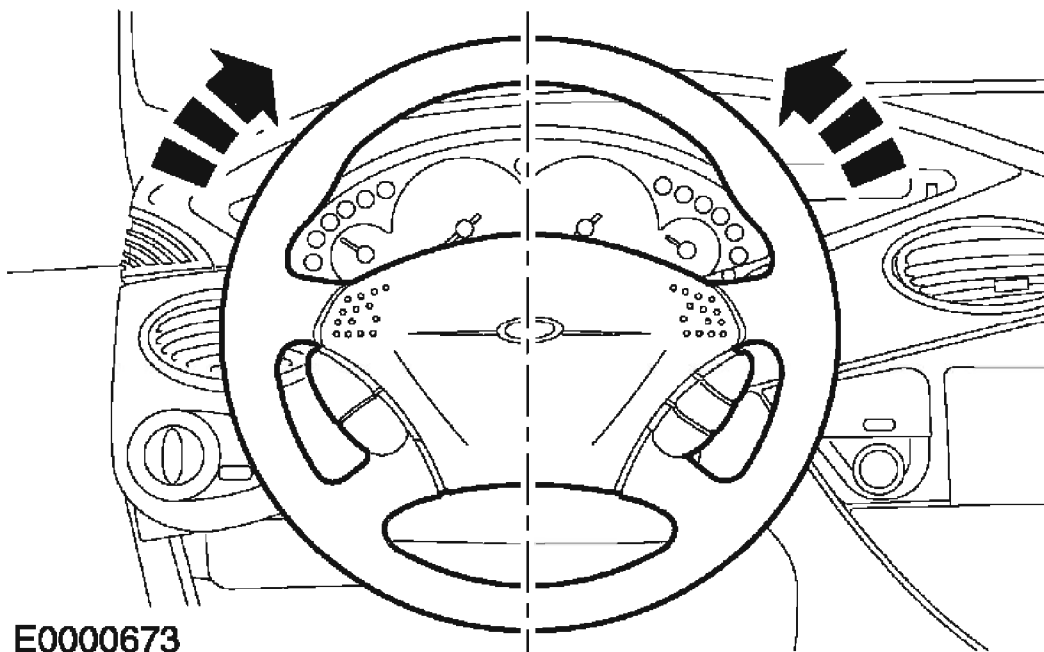
Refer to **STEERING SYSTEM-GENERAL INFORMATION** .

## REMOVAL AND INSTALLATION

### STEERING COLUMN

#### Removal and Installation

**CAUTION:** 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. For additional information, refer to SUPPLEMENTAL RESTRAINT SYSTEM .



**Fig. 2: Turning Steering Wheel To Straight-Ahead Position**  
Courtesy of FORD MOTOR CO.

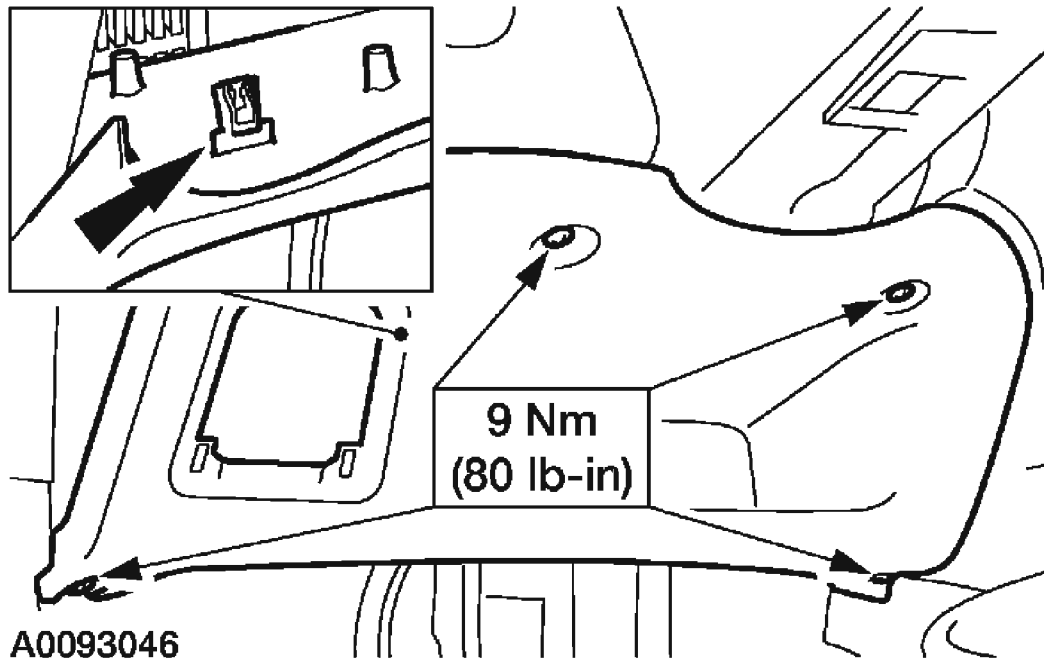
1. Turn the steering wheel to the straight-ahead position and turn the ignition switch to the OFF position.

**WARNING:** To avoid the risk of serious personal injury, read and follow all warnings, notes and instructions in the deactivation procedure.

2. Depower the supplemental restraint system (SRS). For additional information, refer to

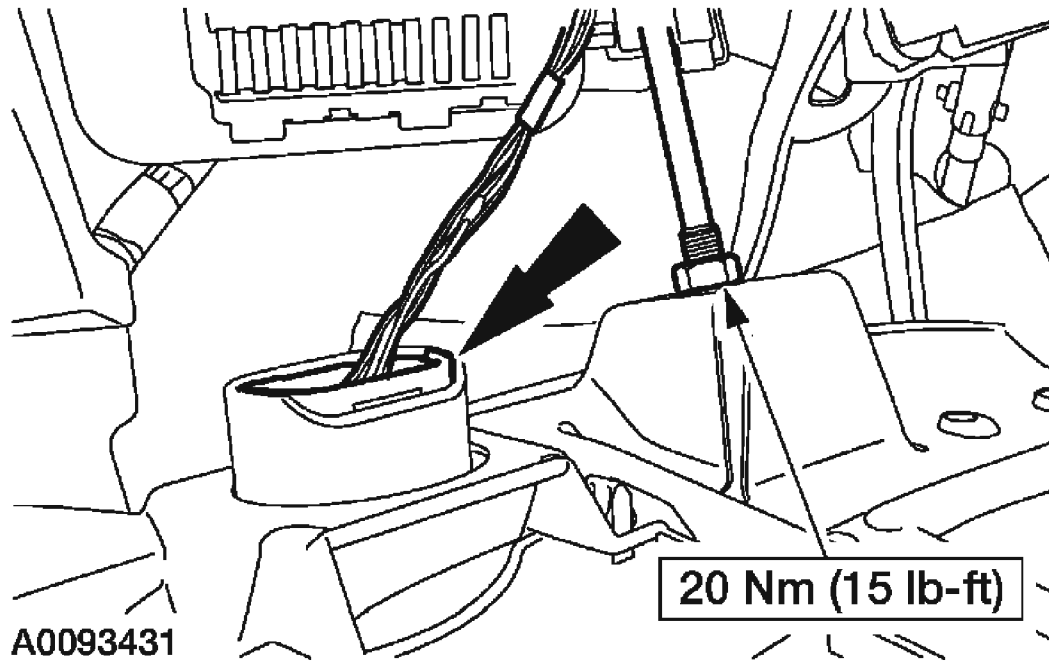
**SUPPLEMENTAL RESTRAINT SYSTEM .**

3. Position aside the instrument panel lower panel.
  - Remove the instrument panel lower panel bolts.
  - Release the fastener.



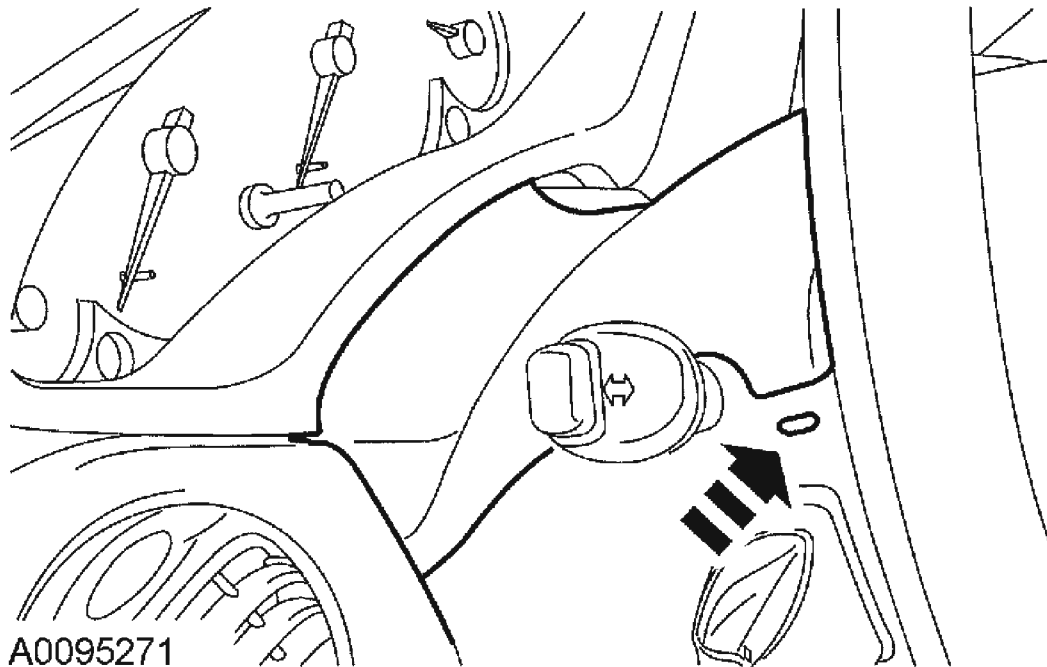
**Fig. 3: Removing Instrument Panel Lower Panel Bolts And Fastener**  
Courtesy of FORD MOTOR CO.

4. Disconnect the hood release cable and the data link connector (DLC) from the instrument panel lower panel and remove the instrument panel lower panel.
  - Loosen the hood release cable nut.



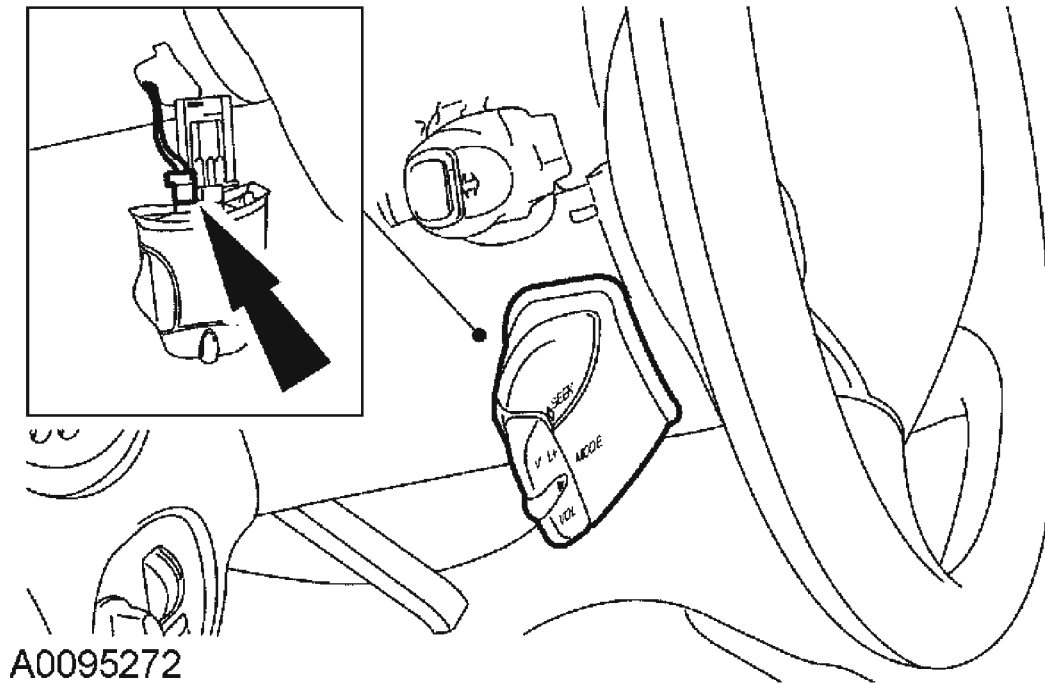
**Fig. 4: Disconnecting Hood Release Cable And Data Link Connector (DLC) From Instrument Panel Lower Panel And Loosening Hood Release Cable Nut**  
Courtesy of FORD MOTOR CO.

5. Remove the steering column upper shroud.
  - Using a suitable tool, release the two clips (one each side).



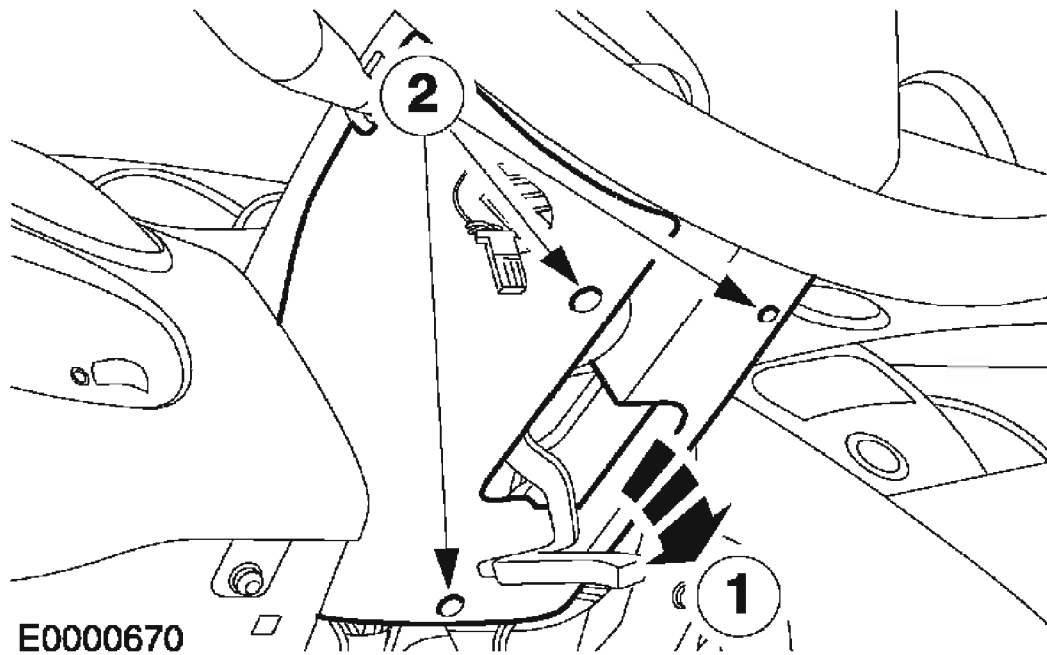
**Fig. 5: Removing Steering Column Upper Shroud**  
Courtesy of FORD MOTOR CO.

6. Remove the audio control switch (if equipped).
  - Using a suitable tool, release the locking tang.
  - Disconnect the audio control switch electrical connector.



**Fig. 6: Removing Audio Control Switch**  
**Courtesy of FORD MOTOR CO.**

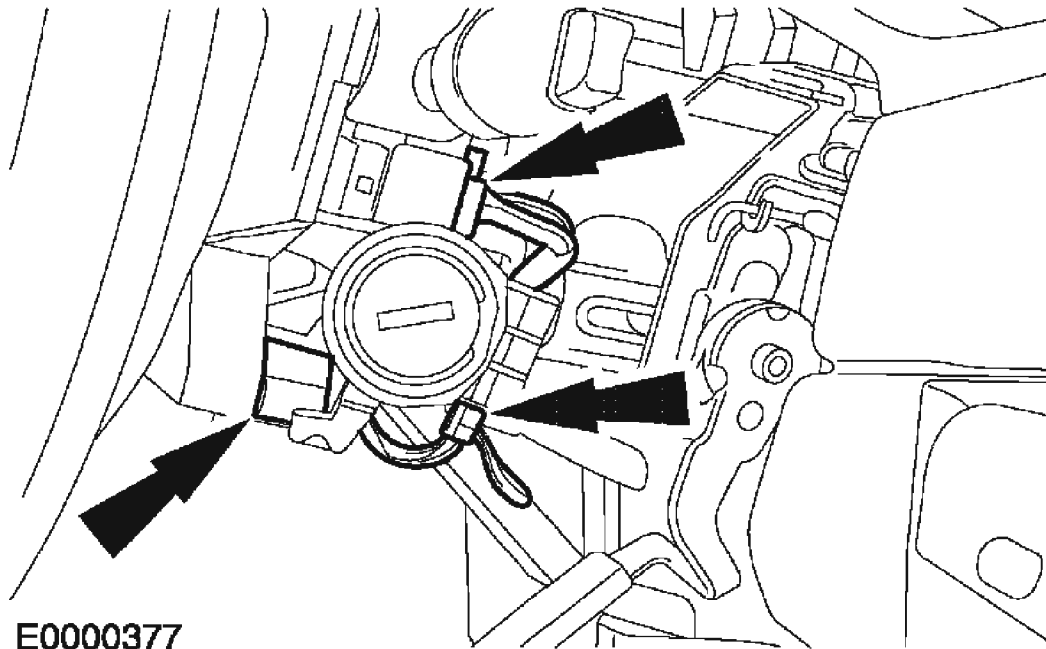
7. Remove the steering column lower shroud.
  1. Release the steering column locking lever (if equipped).
  2. Remove the screws.



**Fig. 7: Removing Steering Column Lower Shroud**  
**Courtesy of FORD MOTOR CO.**

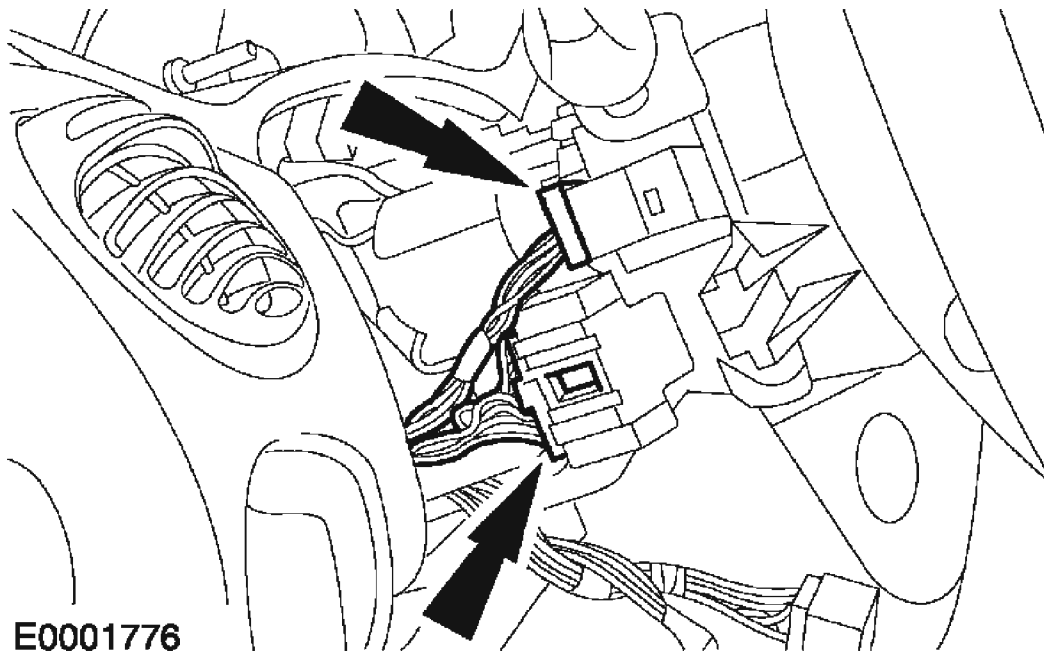
8. Disconnect the passive anti-theft system (PATS) transceiver, RH multifunction switch and clockspring electrical connectors.





**Fig. 8: Disconnecting Passive Anti-Theft System (PATS) Transceiver, RH Multifunction Switch And Clockspring Electrical Connectors**  
Courtesy of FORD MOTOR CO.

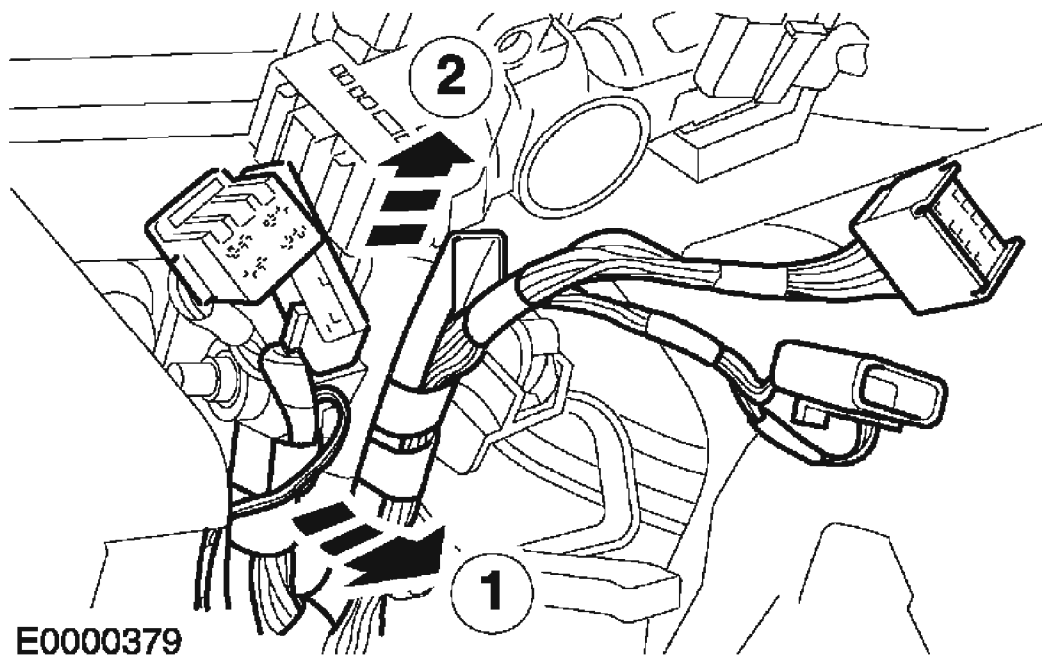
9. Disconnect the ignition switch and LH multifunction switch electrical connectors.



**Fig. 9: Disconnecting Ignition Switch And LH Multifunction Switch Electrical Connectors**

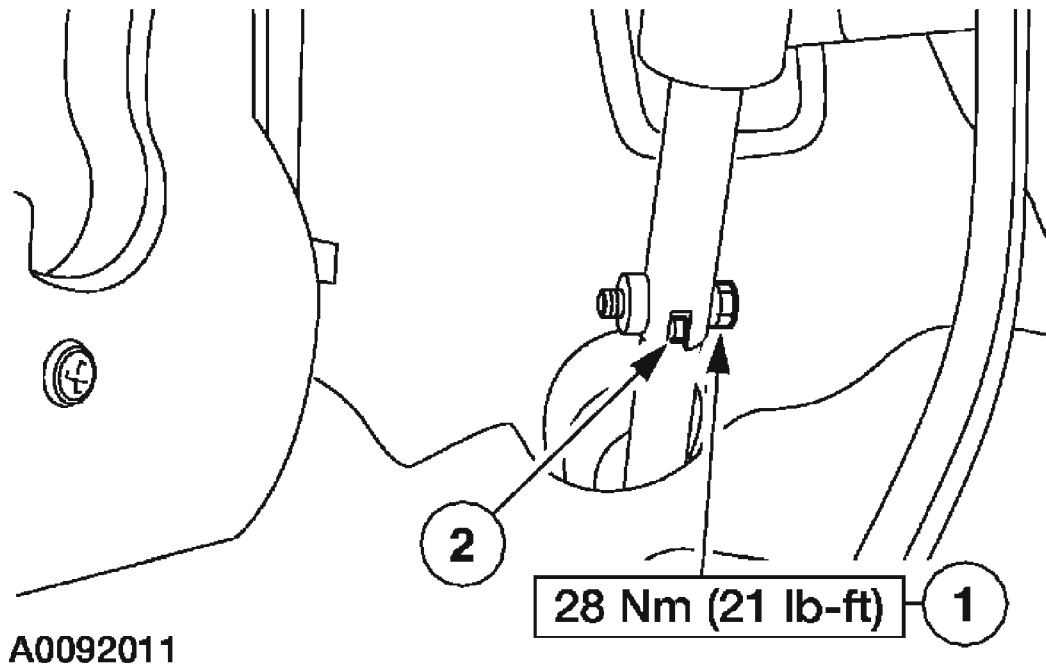
**Courtesy of FORD MOTOR CO.**

10. Remove the wiring harness from the steering column.
  1. Release the locating pin.
  2. Disconnect the wiring harness from the steering column.



**Fig. 10: Removing Wiring Harness From Steering Column**  
Courtesy of FORD MOTOR CO.

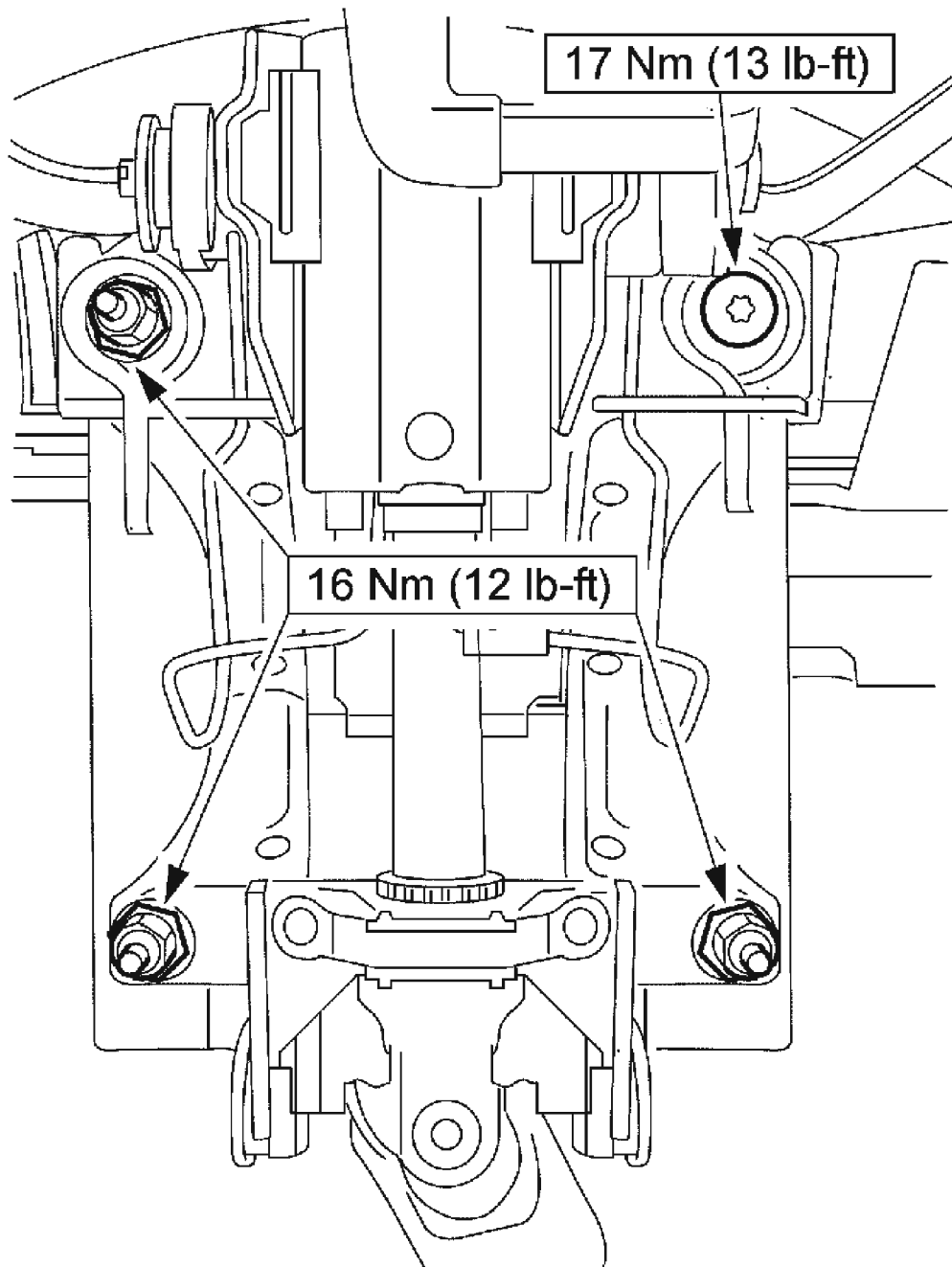
**CAUTION:** Install a new steering column shaft coupling bolt.



**Fig. 11: Disconnecting Steering Column Shaft Coupling From Steering Gear Pinion Extension**  
Courtesy of FORD MOTOR CO.

11. Disconnect the steering column shaft coupling from the steering gear pinion extension.
  1. Remove and discard the steering column shaft coupling bolt.
  2. Release the pinion shaft extension from the steering column shaft coupling.

**WARNING:** When installing the steering column, make sure new nuts are installed. Failure to follow these instructions may result in personal injury.



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**Fig. 12: Removing Mounting Nuts And Bolt**  
**Courtesy of FORD MOTOR CO.**

12. Remove the steering column.
  - Remove and discard the mounting nuts.
  - Remove the mounting bolt.

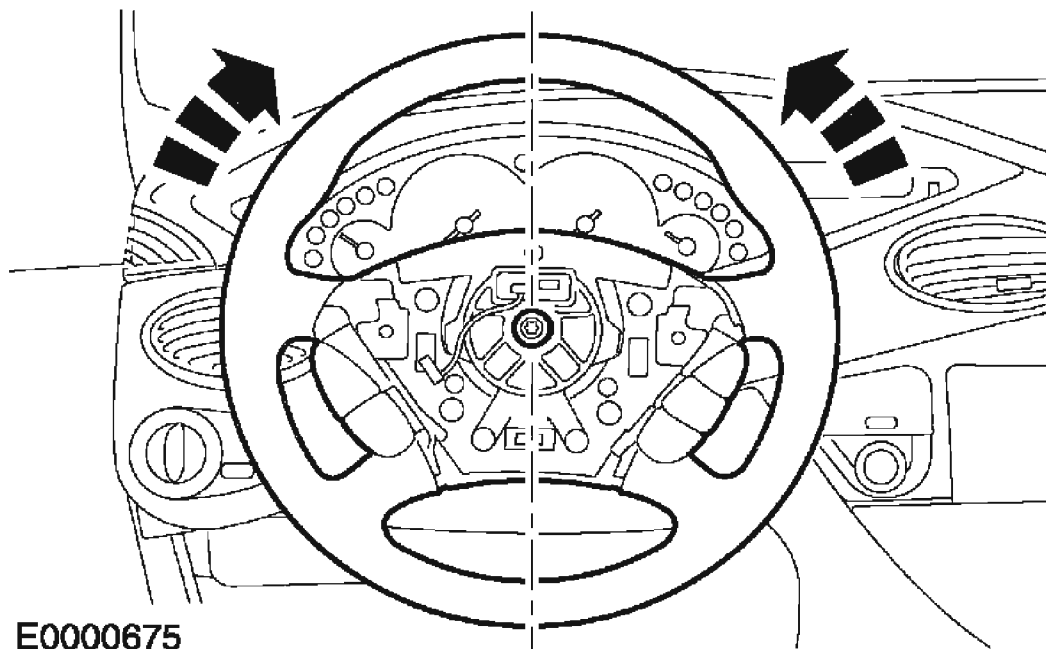
**CAUTION: Make sure the road wheels are in the straight ahead position.**

13. To install, reverse the removal procedure.
14. Repower the supplemental restraint system (SRS). For additional information, refer to **SUPPLEMENTAL RESTRAINT SYSTEM** .

## STEERING WHEEL

### Removal and Installation

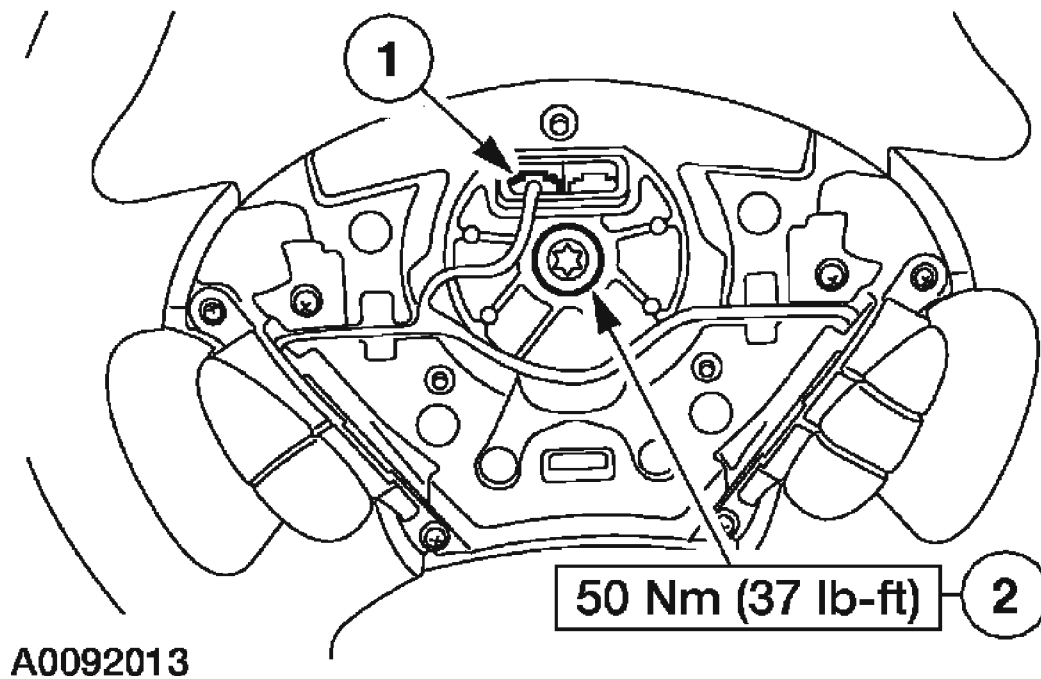
1. Remove the driver air bag module. For additional information, refer to **SUPPLEMENTAL RESTRAINT SYSTEM** .
2. Turn the steering wheel to the straight-ahead position and turn the ignition switch to the OFF position.



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**Fig. 13: Turning Steering Wheel To Straight-Ahead Position**  
Courtesy of FORD MOTOR CO.

3. Remove the steering wheel.
  1. Disconnect the speed control electrical connector (if equipped).
  2. Remove the steering wheel bolt.



**Fig. 14: Disconnecting Speed Control Electrical Connector And Removing Steering Wheel Bolt**  
Courtesy of FORD MOTOR CO.

**WARNING:** When installing the steering wheel make sure the air bag sliding contact is centralized. For additional information, refer to SUPPLEMENTAL RESTRAINT SYSTEM . Failure to follow these instructions may result in personal injury.

**CAUTION:** After installation, check the correct location of the steering wheel on the steering column shaft by turning the steering wheel in a counterclockwise direction.

4. To install, reverse the removal procedure.

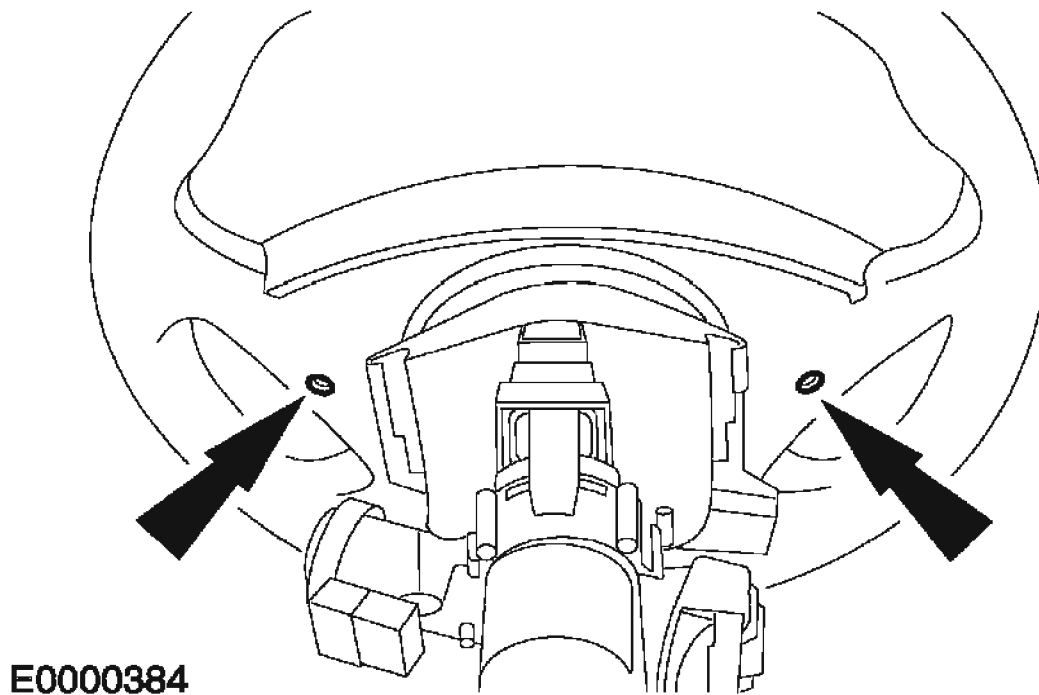
## DISASSEMBLY AND ASSEMBLY

### STEERING COLUMN

#### Disassembly

All vehicles

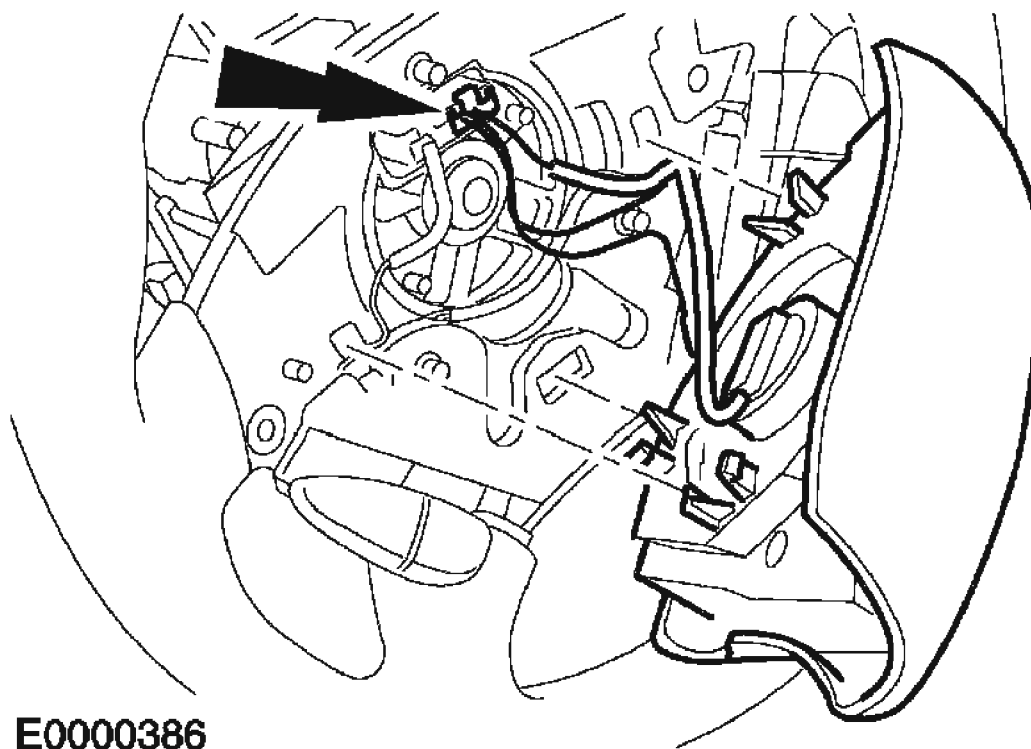
1. Remove the steering column. For additional information, refer to **STEERING COLUMN**.
2. Remove the driver air bag module screws.



**Fig. 15: Removing Driver Air Bag Module Screws**  
Courtesy of FORD MOTOR CO.

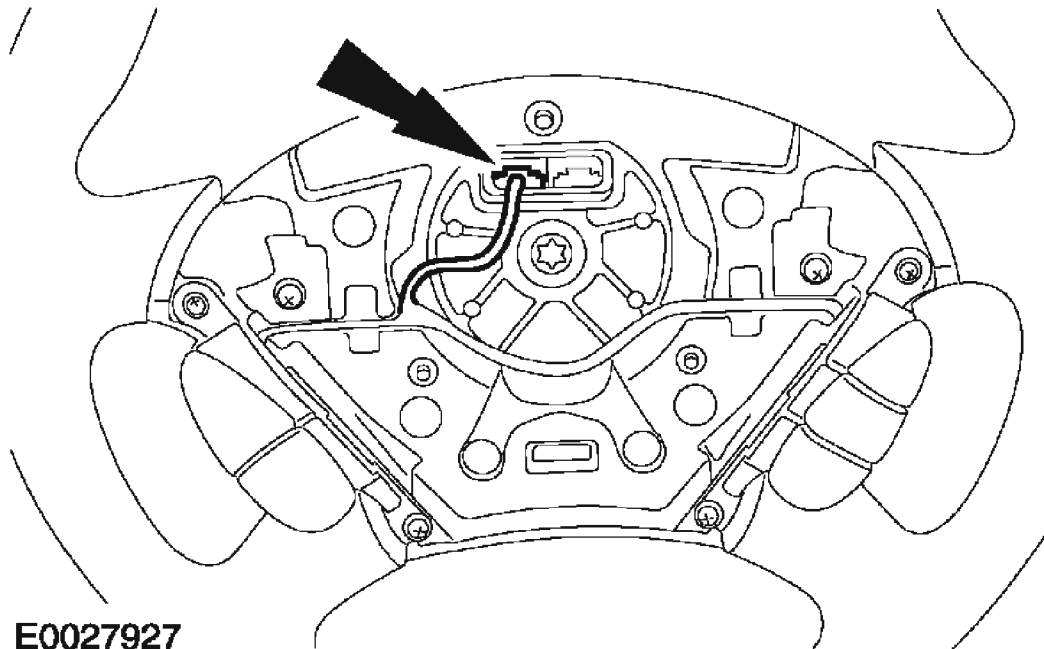
3. Remove the driver air bag module.
  - Disengage the clips.
  - Disconnect the electrical connector.





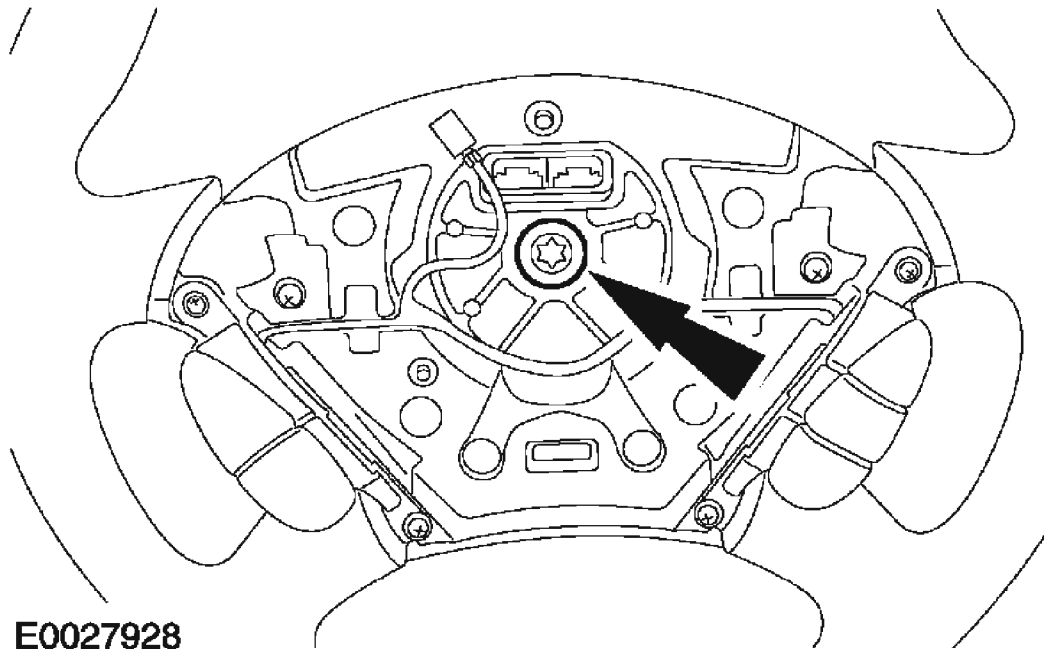
**Fig. 16: Removing Driver Air Bag Module**  
**Courtesy of FORD MOTOR CO.**

4. Disconnect the speed control electrical connector (if equipped).



**Fig. 17: Disconnecting Speed Control Electrical Connector**  
**Courtesy of FORD MOTOR CO.**

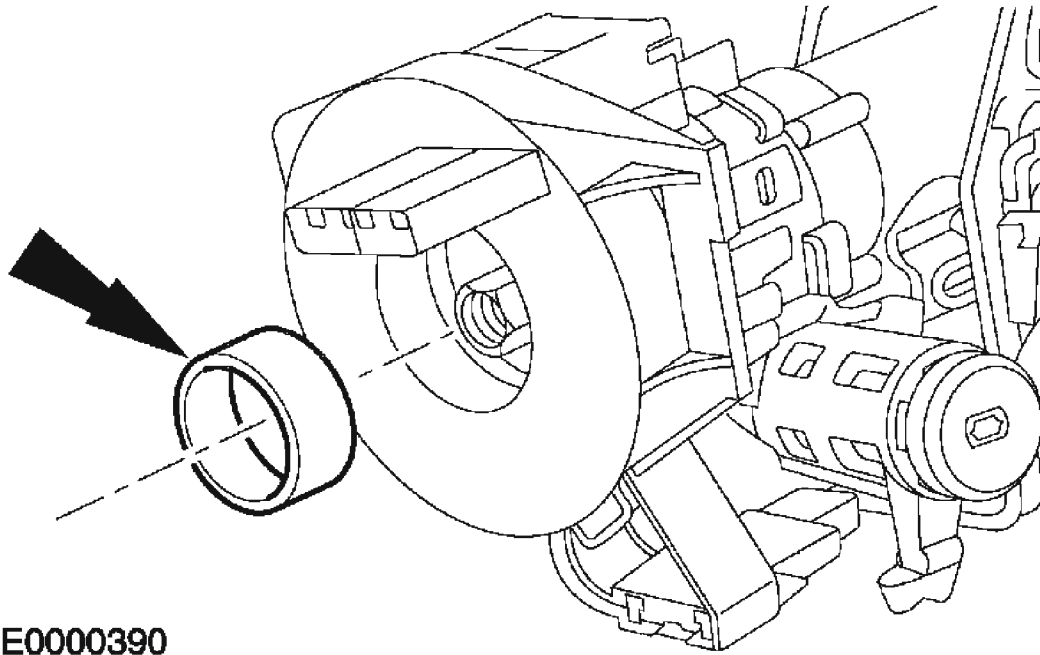
5. Remove the steering wheel.
  - Remove the steering wheel bolt.



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**Fig. 18: Removing Steering Wheel Bolt**  
**Courtesy of FORD MOTOR CO.**

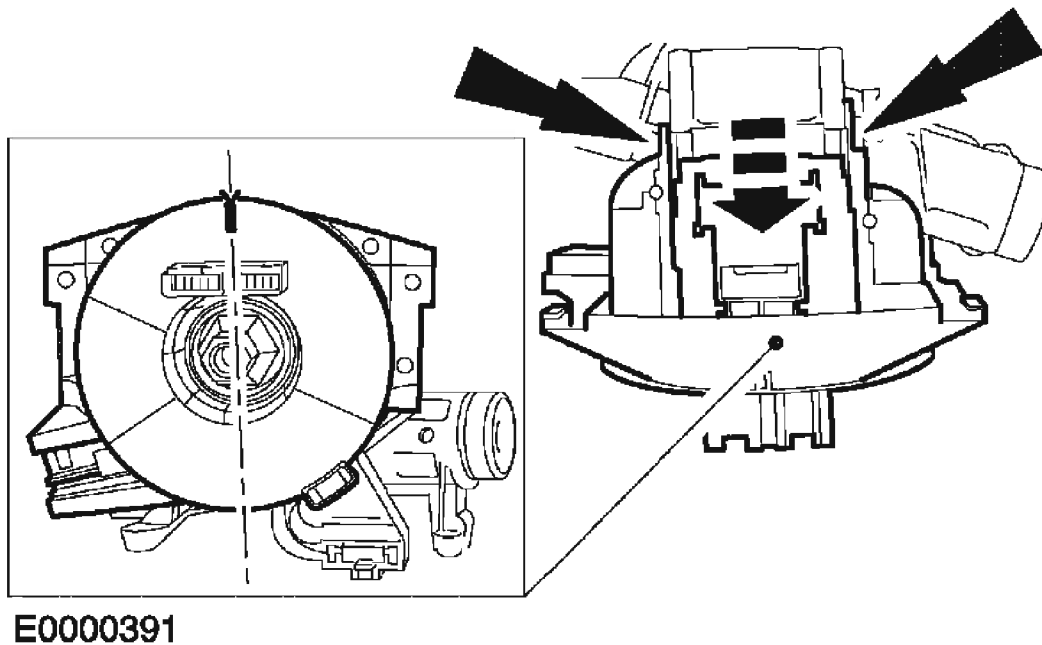
6. Remove the spacing collar.



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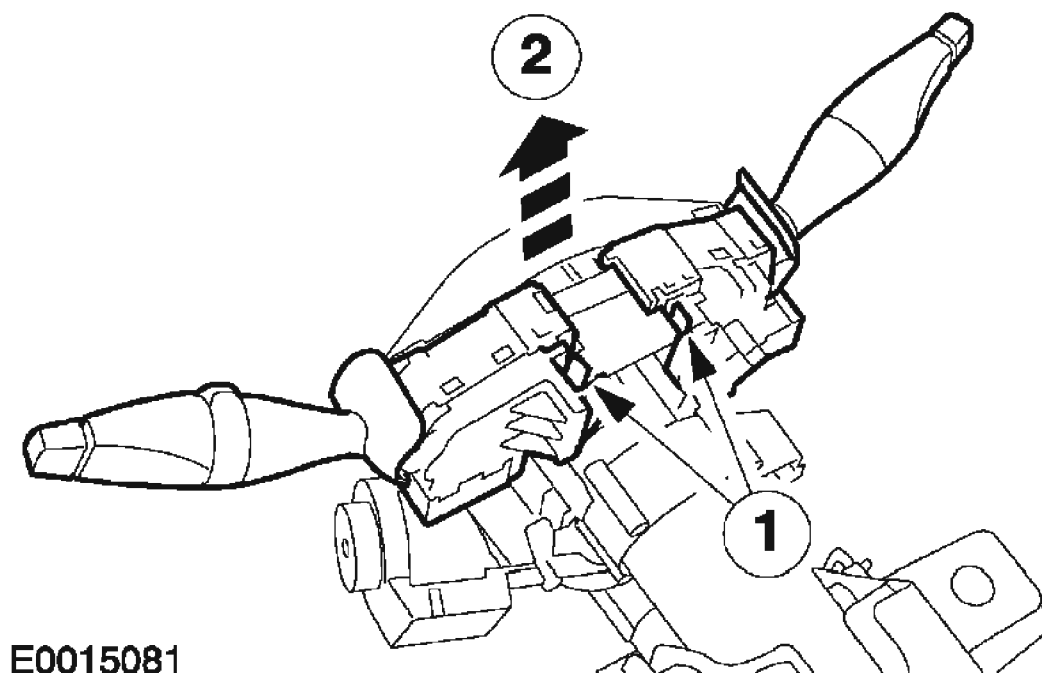
**Fig. 19: Removing Spacing Collar**  
Courtesy of FORD MOTOR CO.

**CAUTION:** Make sure the clockspring is not allowed to rotate.  
Secure in the central position with a piece of suitable tape.



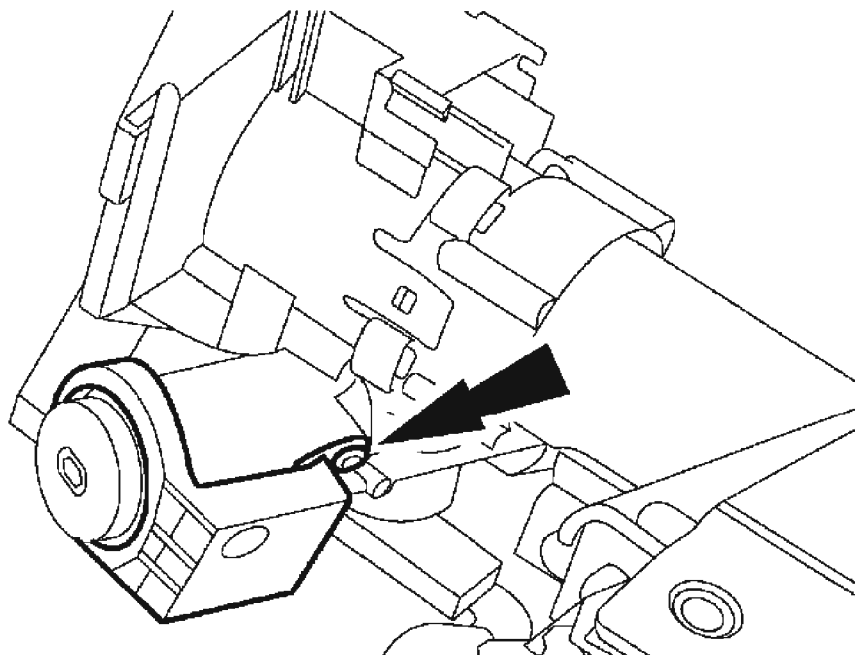
**Fig. 20: Removing Clockspring**  
Courtesy of FORD MOTOR CO.

7. Remove the clockspring.
  - Using a suitable tool, release the retaining clips.
8. Remove the steering column multifunction switches.
  1. Press the retaining tabs.
  2. Lift the switches upwards.



**Fig. 21: Removing Steering Column Multifunction Switches**  
Courtesy of FORD MOTOR CO.

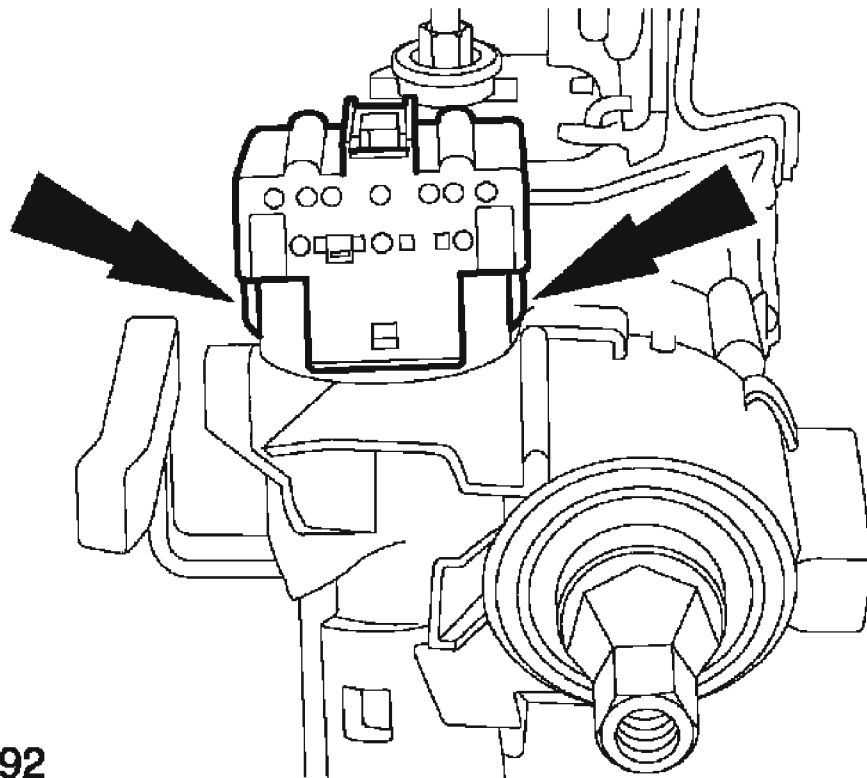
9. Remove the passive anti-theft system (PATS) transceiver.



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**Fig. 22: Removing Passive Anti-Theft System (PATS) Transceiver**  
Courtesy of FORD MOTOR CO.

10. Remove the ignition switch.
  - Release the locking tabs.

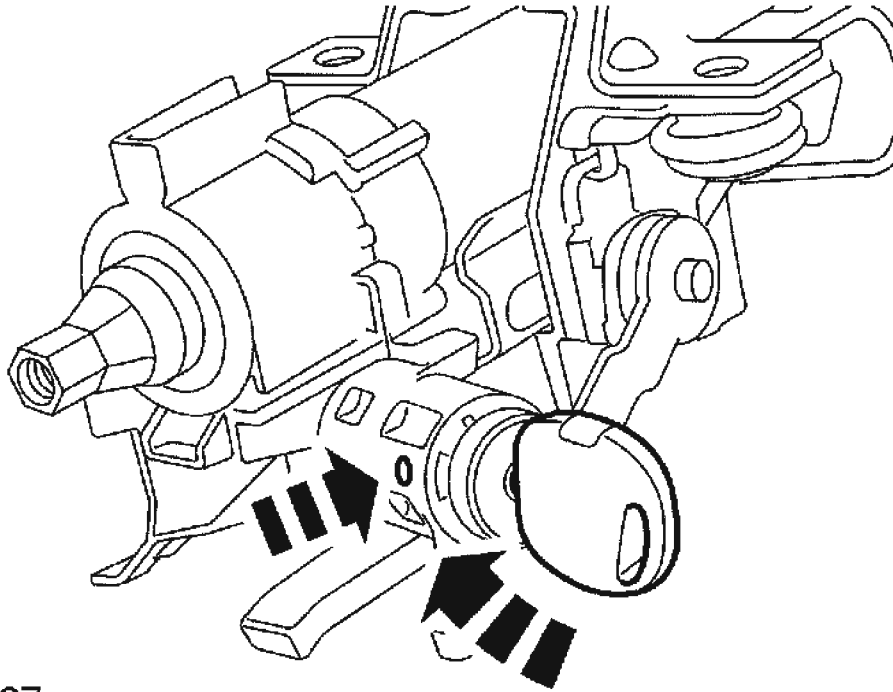


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**Fig. 23: Removing Ignition Switch**  
Courtesy of FORD MOTOR CO.

**NOTE:** Make sure to maintain synchronous positioning between the ignition lock cylinder and the ignition switch while the ignition lock cylinder is removed.





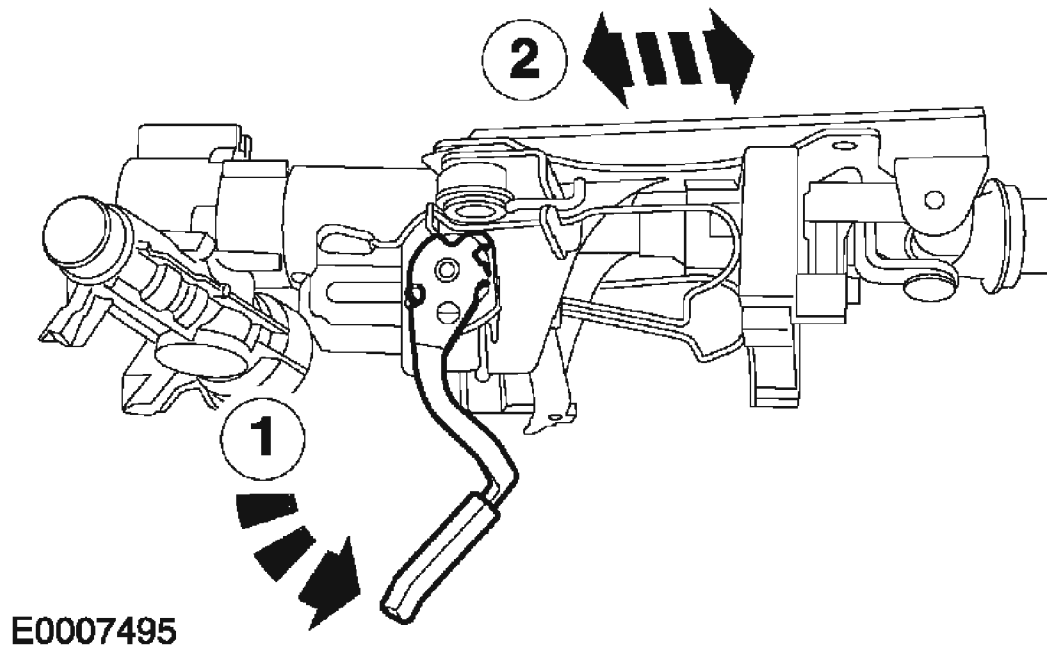
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**Fig. 24: Removing Ignition Switch Lock Cylinder**  
Courtesy of FORD MOTOR CO.

11. Remove the ignition switch lock cylinder.
  - Insert and turn the ignition key to the ON position.
  - Using a suitable tool, press the detent and pull the ignition lock cylinder out.

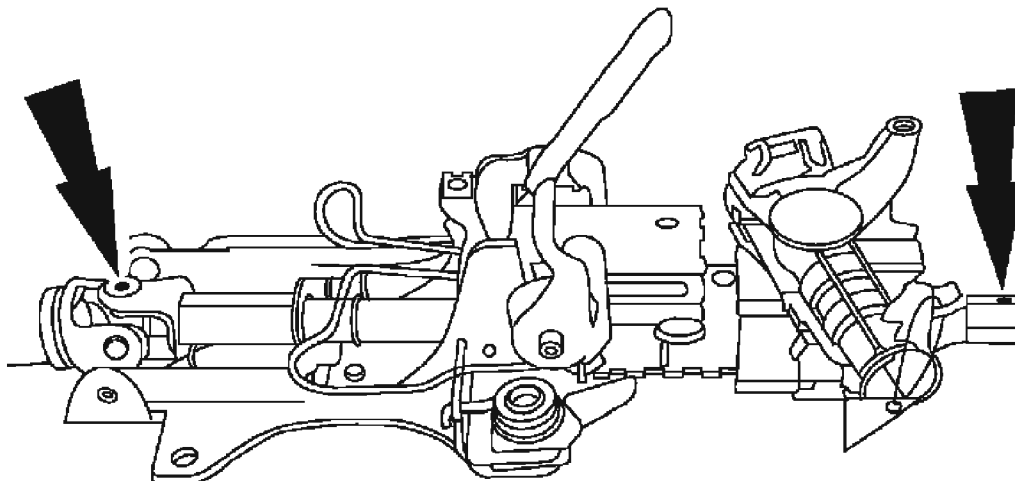
#### **Vehicles with telescoping column**

12. Fully extend the steering column.
  1. Release the locking lever.
  2. Extend the steering column.



**Fig. 25: Fully Extending Steering Column**  
Courtesy of FORD MOTOR CO.

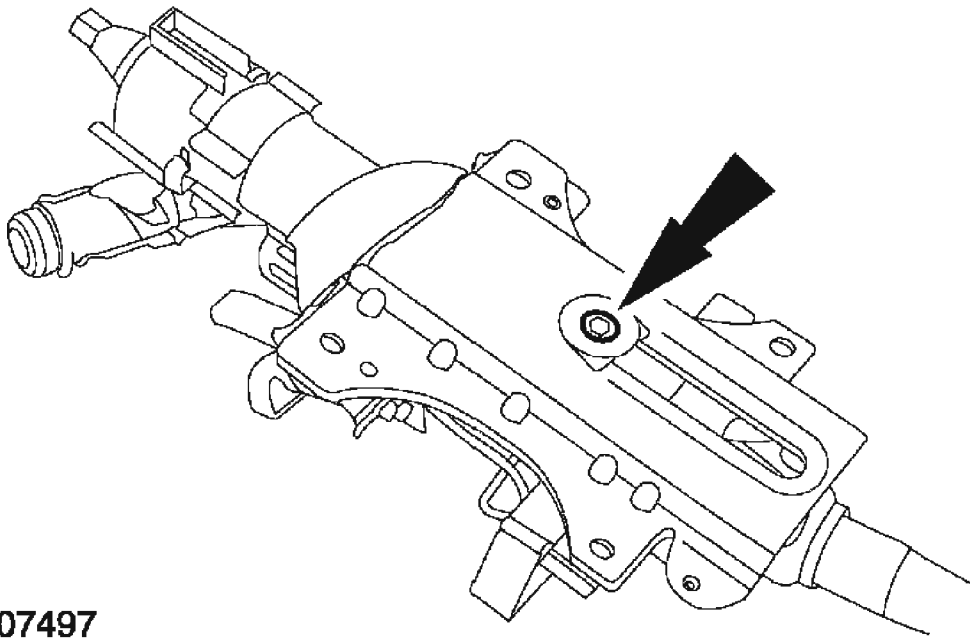
**NOTE:** The two halves of the steering column must be marked before separating to aid assembly.



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**Fig. 26: Marking Halves Of Steering Column**  
Courtesy of FORD MOTOR CO.

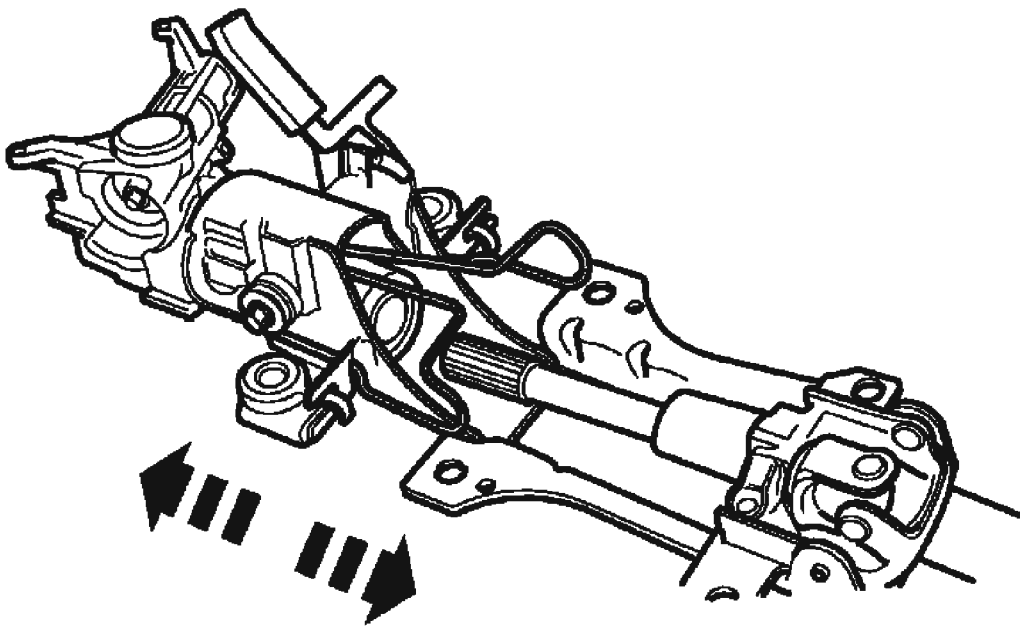
13. Mark the two halves of the steering column.
14. Remove the steering column sliding bolt.



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**Fig. 27: Removing Steering Column Sliding Bolt**  
Courtesy of FORD MOTOR CO.

15. Separate the two halves of the steering column.



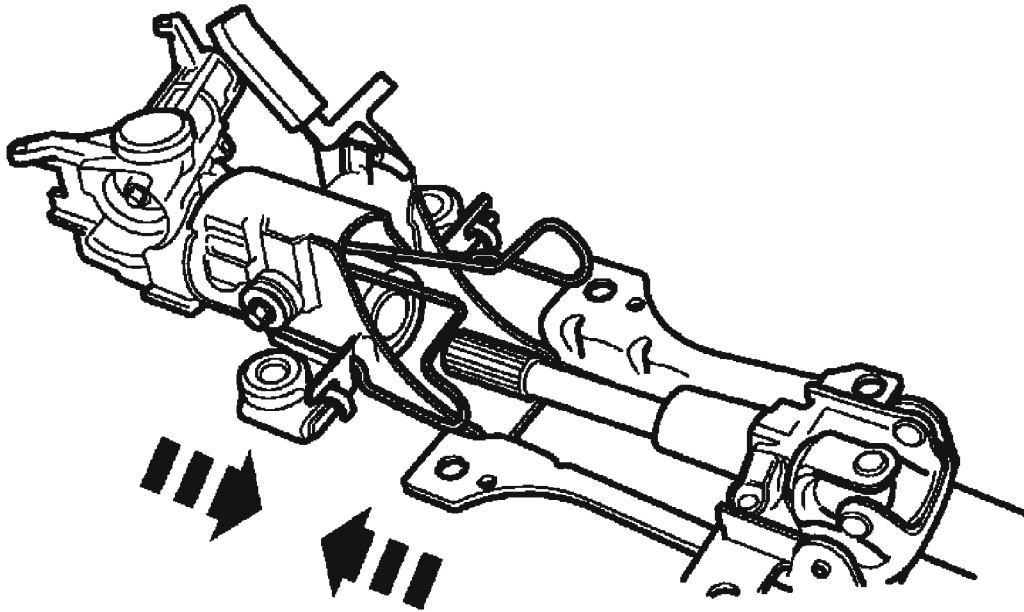
A0092027

**Fig. 28: Separating Halves Of Steering Column**  
Courtesy of FORD MOTOR CO.

Assembly

Vehicles with telescoping column

**NOTE:** Make sure the steering column shafts are aligned correctly.



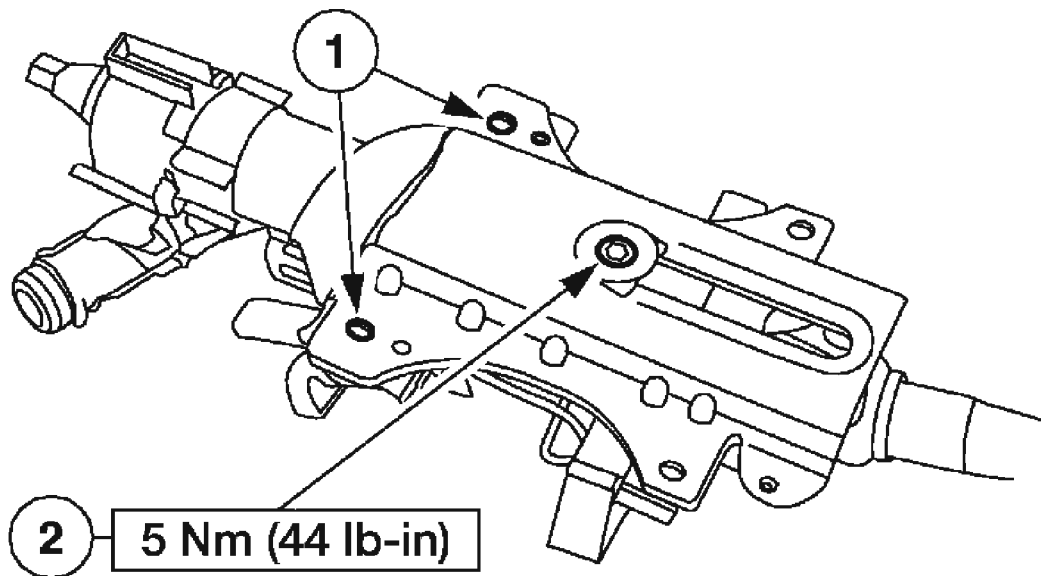
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**Fig. 29: Connecting Halves Of Steering Column**  
Courtesy of FORD MOTOR CO.

1. Connect the two halves of the steering column.

**WARNING:** Make sure the breakaway capsules are located in the holes in the bracket. Failure to follow these instructions may result in personal injury.

**WARNING:** Make sure the bolt is not over tightened. Failure to follow these instructions may result in personal injury.



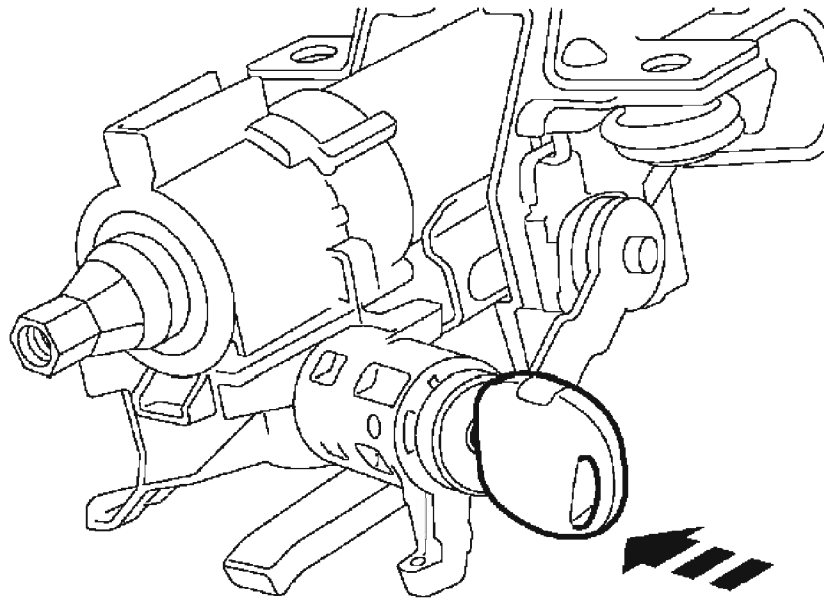
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**Fig. 30: Installing Steering Column Sliding Bolt**  
Courtesy of FORD MOTOR CO.

2. Install the steering column sliding bolt.
  1. Align the breakaway capsules.
  2. Tighten the steering column sliding bolt.

**All vehicles**

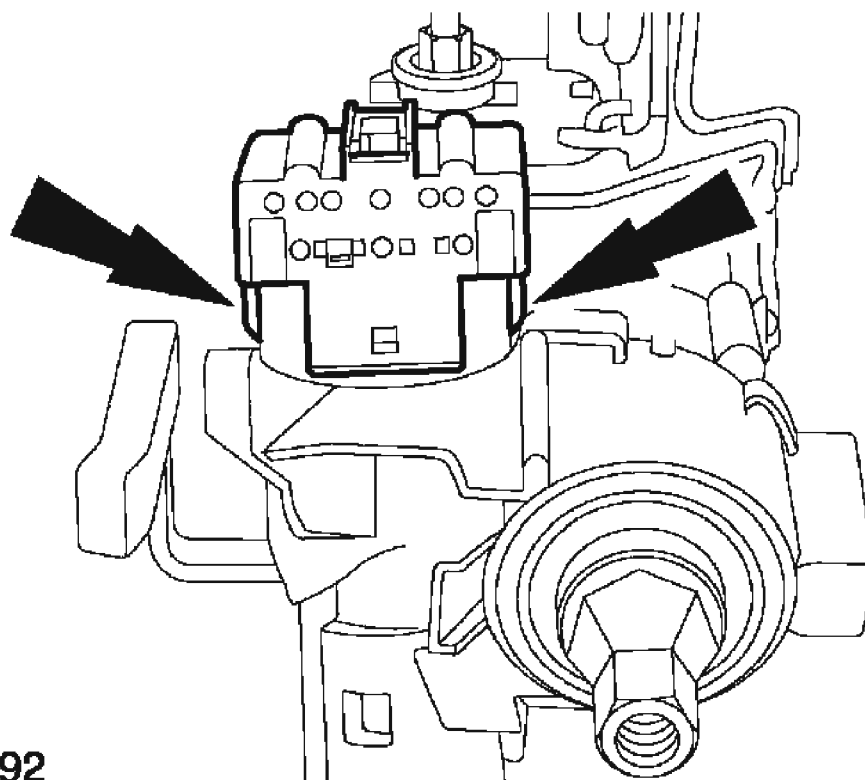
3. Install the ignition lock cylinder.
  - Rotate the ignition key.



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**Fig. 31: Installing Ignition Lock Cylinder**  
Courtesy of FORD MOTOR CO.

4. Install the ignition switch.

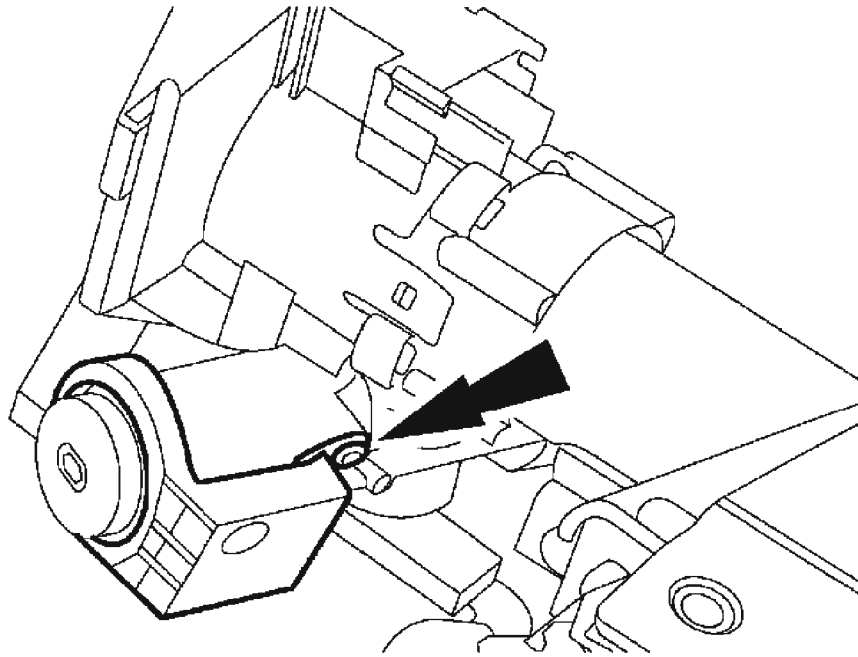


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**Fig. 32: Installing Ignition Switch**  
**Courtesy of FORD MOTOR CO.**

5. Install the PATS transceiver.

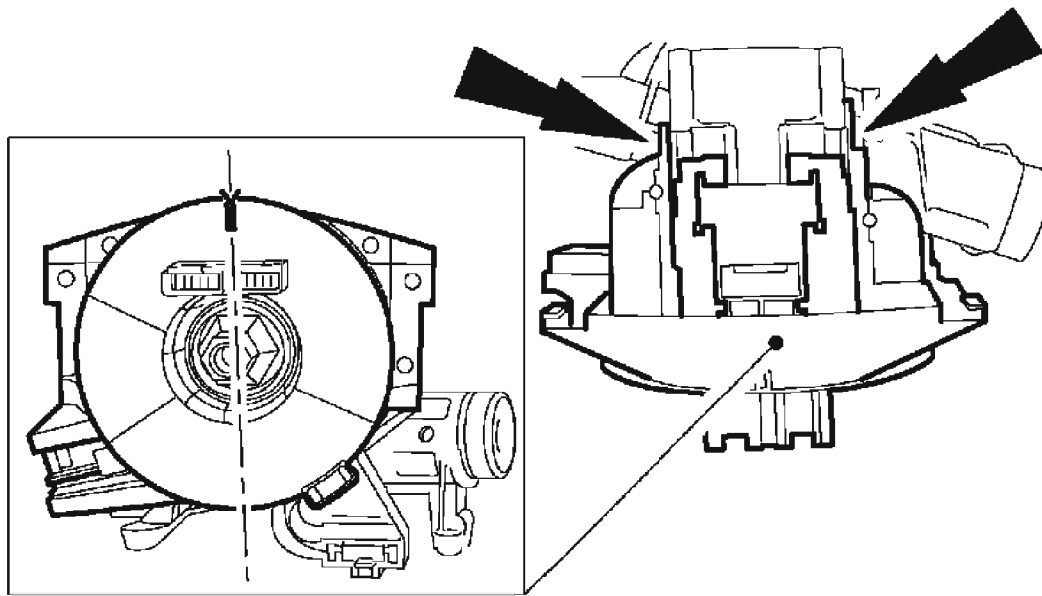




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**Fig. 33: Installing PATS Transceiver**  
**Courtesy of FORD MOTOR CO.**

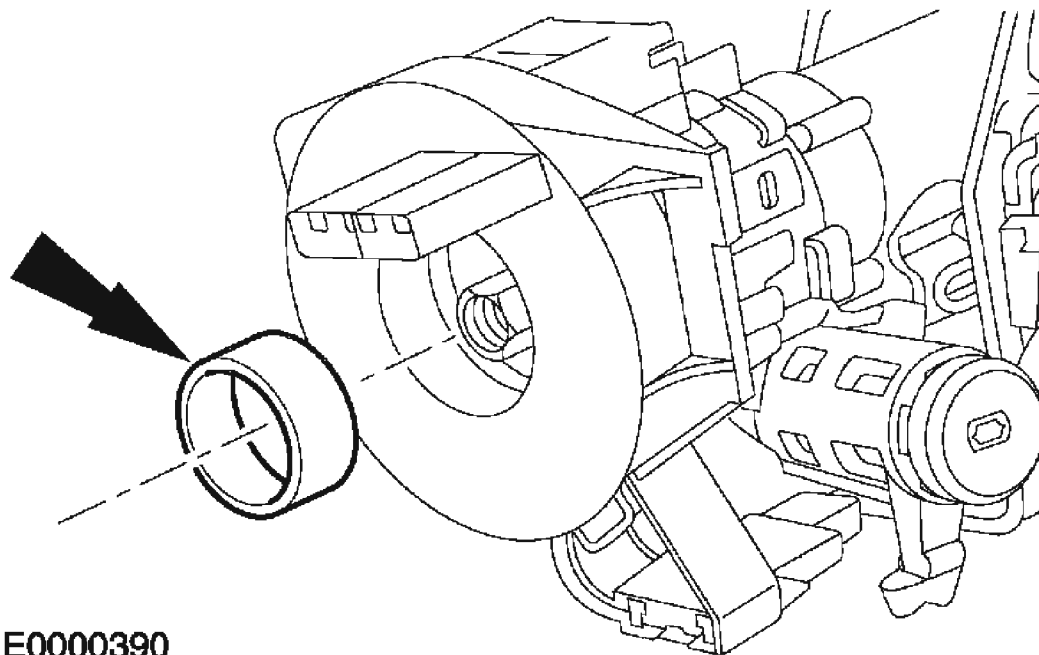
6. Install the clockspring.
  - Make sure both the retaining tabs lock into position on the steering column.



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**Fig. 34: Identifying Both Retaining Tabs Lock Into Position On Steering Column**  
Courtesy of FORD MOTOR CO.

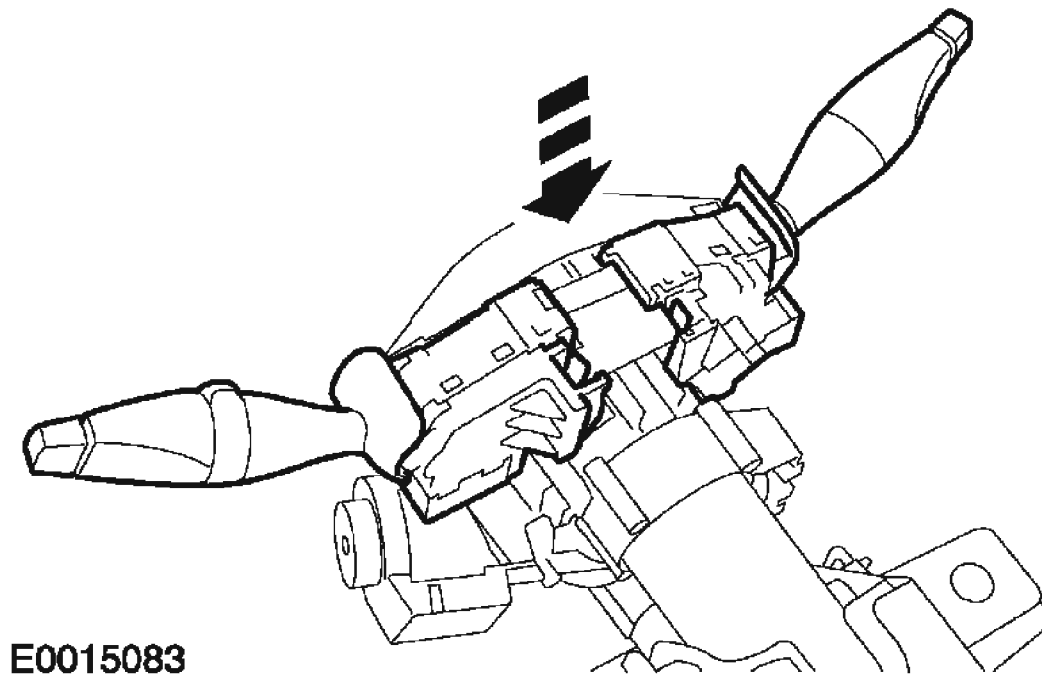
**CAUTION:** Make sure the spacing collar is correctly located. Do not assemble if the spacing collar is missing.



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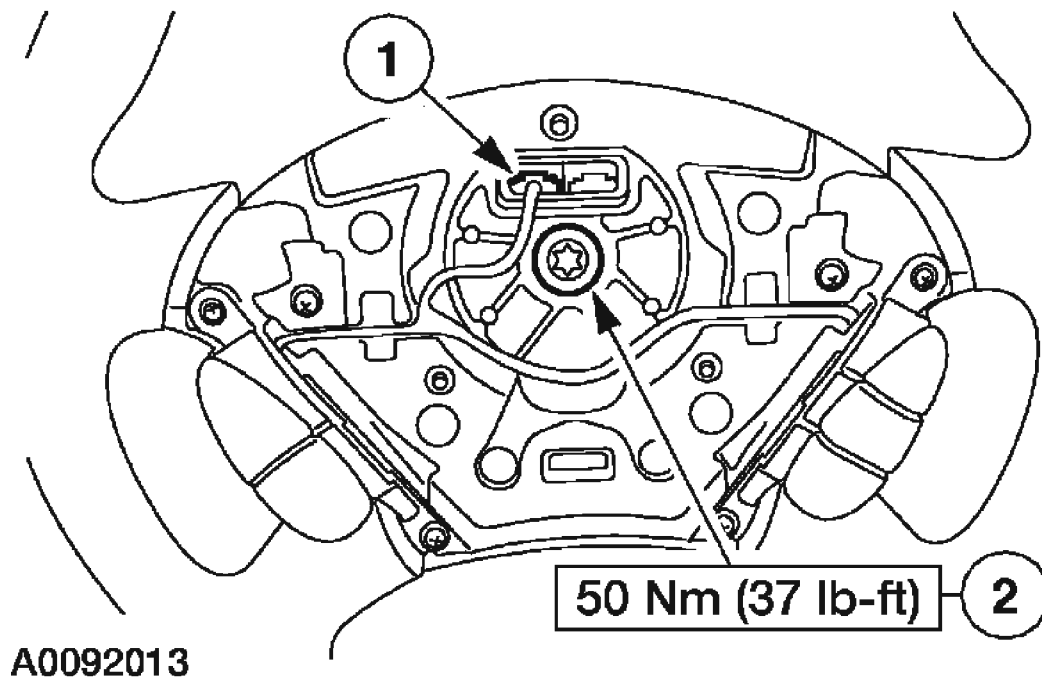
**Fig. 35: Installing Spacing Collar**  
**Courtesy of FORD MOTOR CO.**

7. Install the spacing collar.
8. Install the steering column LH and RH multifunction switches.



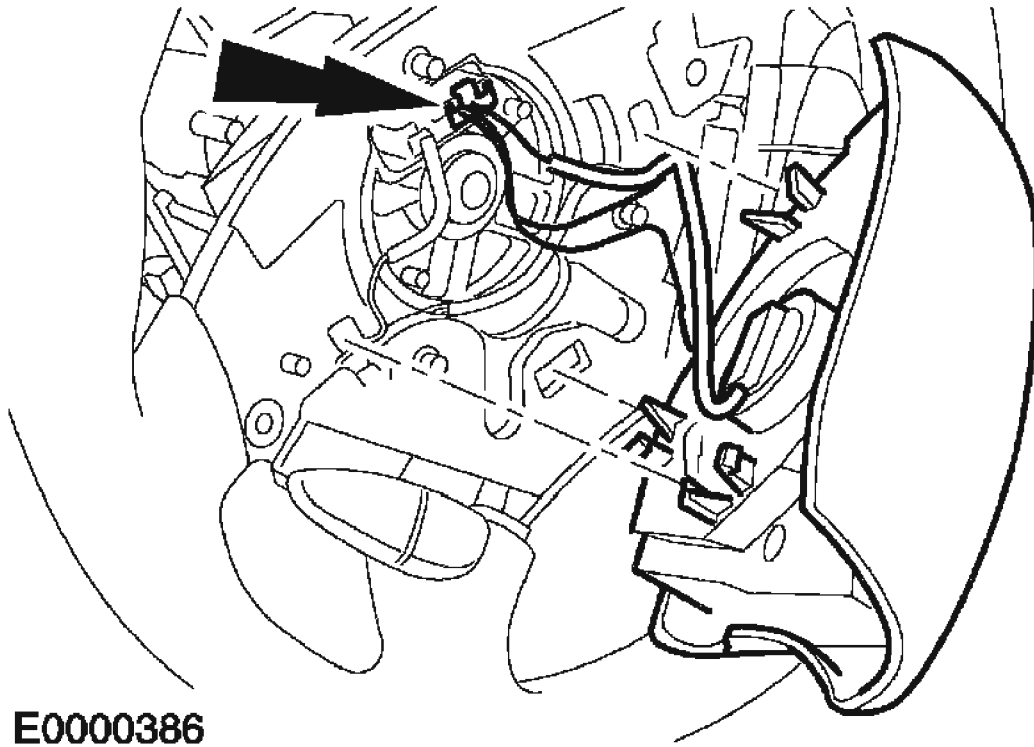
**Fig. 36: Installing Steering Column LH And RH Multifunction Switches**  
**Courtesy of FORD MOTOR CO.**

9. Remove the tape from the clockspring.
10. Install the steering wheel.
  1. Connect the speed control electrical connector (if equipped).
  2. Install the bolt.



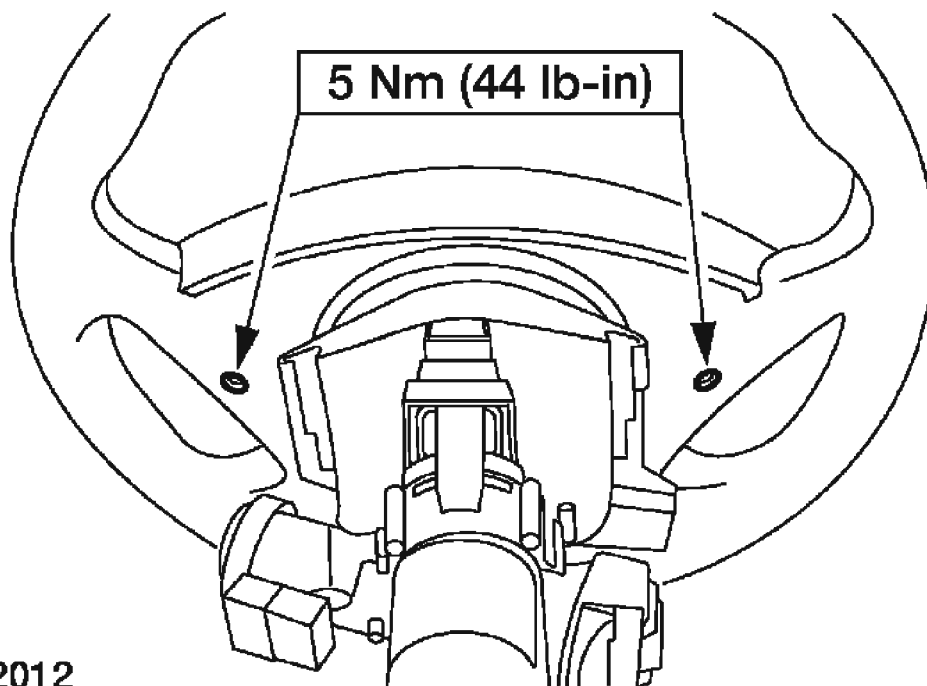
**Fig. 37: Connecting Speed Control Electrical Connector And Installing Bolt**  
Courtesy of FORD MOTOR CO.

11. Install the driver air bag module.
  - Connect the electrical connector.



**Fig. 38: Installing Driver Air Bag Module**  
Courtesy of FORD MOTOR CO.

12. Install the driver air bag module screws.



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**Fig. 39: Installing Driver Air Bag Module Screws**  
Courtesy of FORD MOTOR CO.