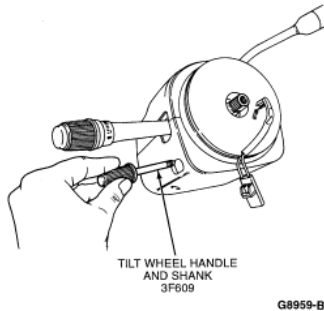


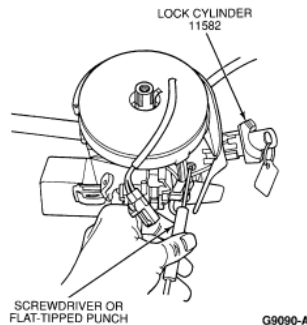
## Steering Column

### Disassembly

1. Remove instrument panel cover and reinforcement from vehicle as described in this section.
2. Unscrew and remove tilt wheel handle and shank (3F609), if equipped.

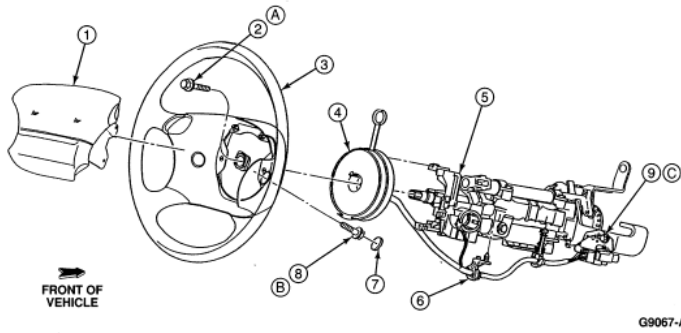


3. Remove three screws and lower steering column shroud (3530).
4. Turn ignition switch lock cylinder (11582) to RUN position.
5. Using flat-tipped punch, push on button below ignition switch lock cylinder and pull out ignition switch lock cylinder.



6. Remove upper steering column shroud.
7. **CAUTION:** Be sure air bag sliding contact internal lock is engaged. Hub should not turn more than 45 degrees in either direction.  
Using door trim removal tool, remove air bag sliding contact electrical connectors from bend bracket.
8. **CAUTION:** Do not remove wire harness clips from wire bundle.  
Using door trim removal tool, disconnect two wire harness clips from steering column.
9. Remove key warning chime contact and anti-theft contact from ignition lock cylinder pocket of lock cylinder housing.

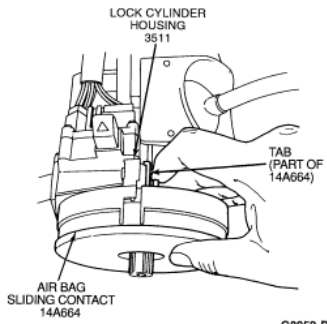
### Steering Wheel with Air Bag



G9067-A

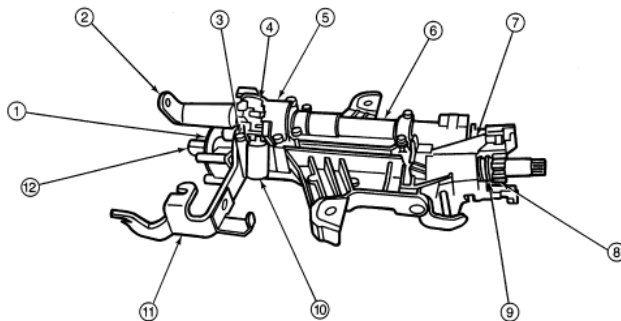
Item	Part Number	Description
1	043B13	Driver Side Air Bag Module
2	N807493-S100	Torx® Head Screw, M10-1.5 x 18
3	3600	Steering Wheel
4	14A664	Air Bag Sliding Contact
5	3C529	Steering Column
6	—	Clip (Part of 14A664)
7	3F785	Plug
8	N808944-S424	Bolt
9	N805375-S36MG	Bolt
A	—	Tighten to 34-46 Nm (25-33 Lb-Ft)
B	—	Tighten to 7.6-10.4 Nm (67-92 Lb-In)
C	—	Tighten to 10.2-13.8 Nm (7.5-10.1 Lb-Ft)

- Remove air bag sliding contact (14A664) by pushing snap back at 6 o'clock position, then 3 o'clock position, then 12 o'clock position and remove from steering shaft.



G8952-B

**Steering Column**

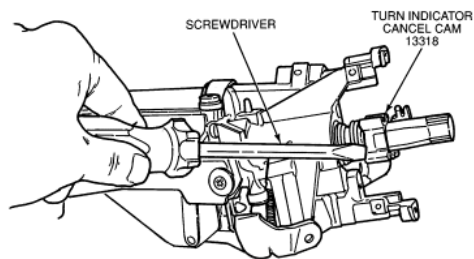


G9091-A

Item	Part Number	Description
1	3C131	Suspension Height Sensor Control Ring
2	7302	Transmission Selector Lever Arm and Support
3	3D681	Steering Column Lower Bearing Retainer
4	7A216	Transmission Shift Selector Position Insert
5	—	Attachment Point (Part of 7302)
6	7212	Transmission Column Shift Selector Tube
7	3511	Steering Column Lock Cylinder Housing
8	13318	Turn Indicator Cancel Cam
9	3520	Steering Column Upper Bearing Spring
10	3Z719	Brake Shift Interlock Solenoid
11	3676	Steering Column Bend Bracket
12	3520	Steering Column Bearing Spring (Tilt Only)

11. Remove turn indicator cancel cam (13318) by pushing up with flat-bladed screwdriver. Note direction of flush surface.

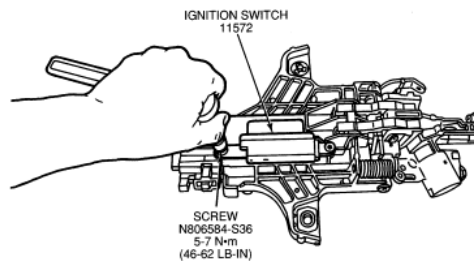
#### Turn Indicator Cancel Cam Removal



G9092-A

12. Remove ignition switch.

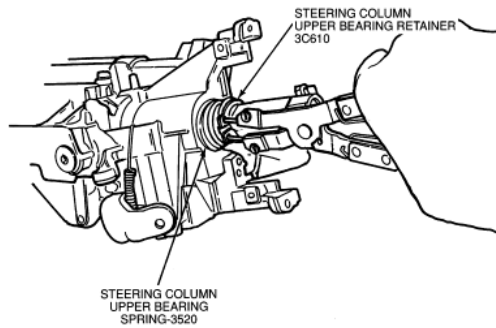
#### Ignition Switch Removal



G9093-A

13. Remove upper bearing retainer snap ring and steering column upper bearing spring (3520).

#### Steering Column Upper Bearing Spring and Upper Bearing Retainer

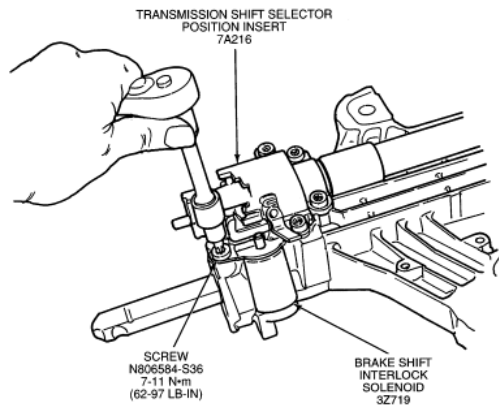


G9094-A

14. Remove steering column bearing sleeve (3518) and steering column bearing tolerance ring (3L539).
15. Remove gearshift lever (7210).
16. **NOTE: Brake shift interlock solenoid is retained to the transmission shift selector position insert (7A216) with a pushnut.**

Remove three screws attaching brake shift interlock solenoid and transmission shift selector position insert.

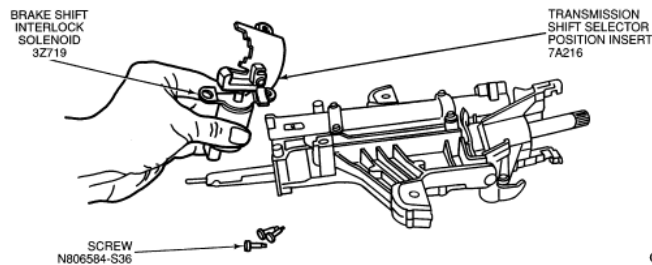
#### Brake Shift Interlock Solenoid Screws



G9095-A

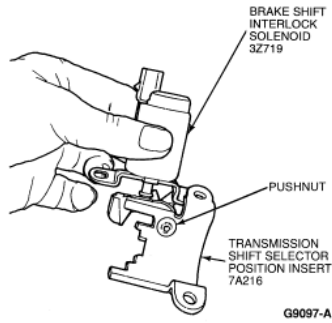
17. Remove brake shift interlock solenoid and transmission shift selector position insert together.

#### Transmission Shift Selector Position Insert



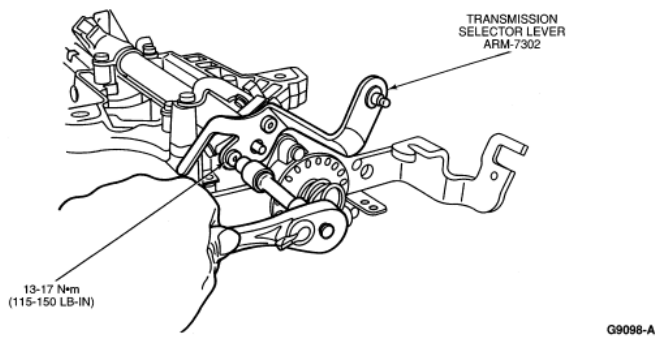
G9096-A

18. If necessary, remove pushnut and separate brake shift interlock solenoid and transmission shift selector position insert.

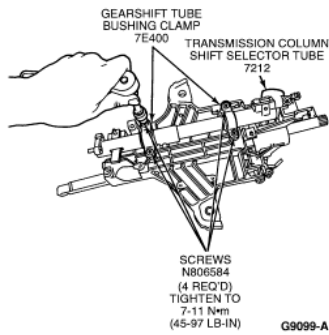


19. Remove two screws and transmission control selector arm.

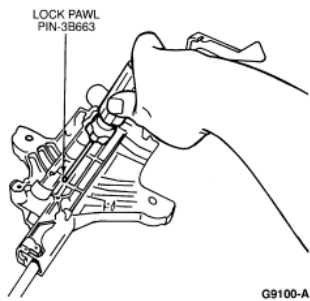
**Transmission Selector Lever Arm**



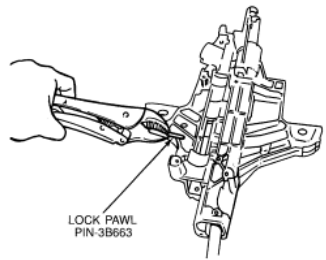
20. Remove four screws, two gearshift tube bushing clamps (7E400), transmission column shift selector tube (7212) and assembled parts.



21. Pry on end of steering column lock lever pin (3B663) which is sticking out.

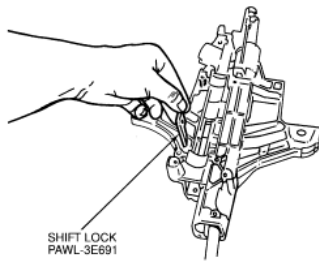


22. Pull steering column lock lever pin with Vise-Grips®.



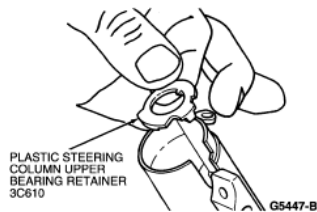
G9101-A

23. Remove column shift lock pawl.



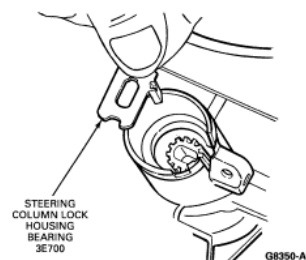
G9102-A

24. Remove plastic bearing retainer from bore of lock cylinder.



G5447-B

25. Remove steering column lock housing bearing (3E700) from lock cylinder bore.

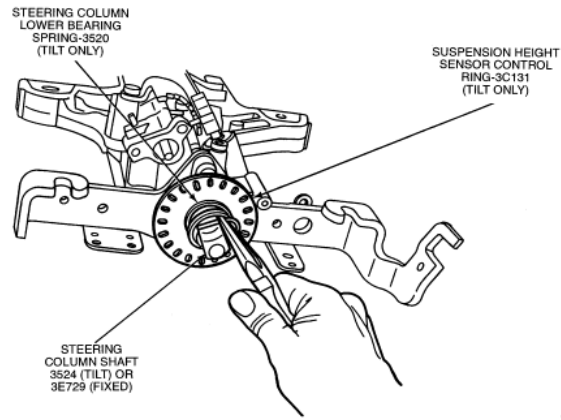


G8350-A

26. Remove steering column lock gear (3E717).

27. On tilt column, remove steering column lower bearing spring. Using long-nose pliers, lift spring out of grooves in steering shaft and pull off.

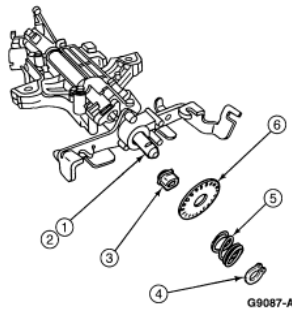
#### Steering Column Lower Bearing Spring (Tilt Only)



G9086-A

- 28. Remove suspension height sensor control ring (3C131) and lower column bearing tolerance ring.

**Suspension Height Sensor Control Ring**

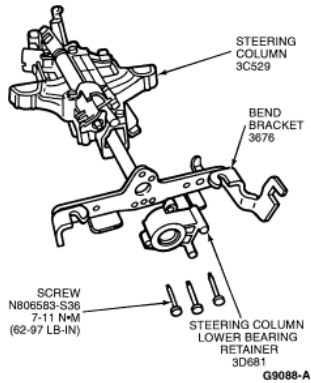


G9087-A

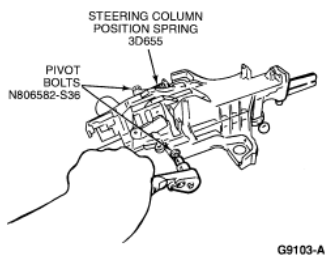
Item	Part Number	Description
1	3524	Steering Gear Column Shaft (Tilt)
2	3E729	Steering Gear Column Shaft (Fixed)
3	3L539	Steering Column Upper Bearing Tolerance Ring
4	3C610	Bearing Retainer
5	3520	Steering Column Upper Bearing Spring
6	3C131	Suspension Height Sensor Control Ring

- 29. On fixed column, remove steering column bearing retainer and steering column tolerance ring.
- 30. Remove steering column lower bearing retainer (3D681) and steering column bend bracket.

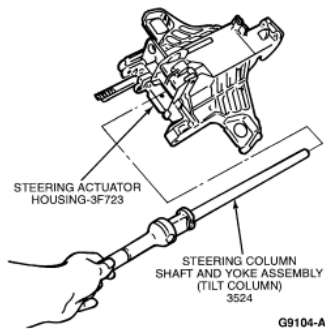
**Steering Column Lower Bearing Retainer and Bend Bracket**



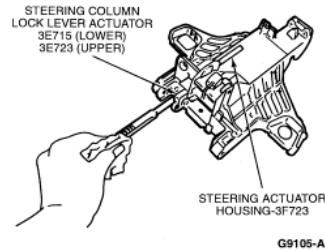
31. Remove two pivot bolts. Use caution as steering column position spring (3D655) will release when bolts are removed. Remove lock cylinder housing.



32. Remove steering shaft from steering column.

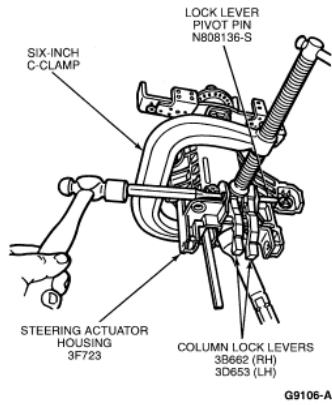


33. Remove upper and lower steering column lock actuators.



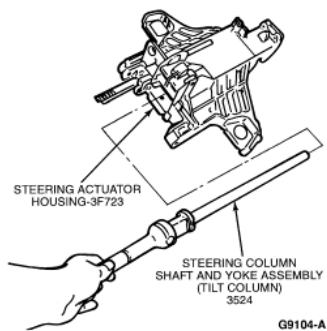
34. On tilt columns, secure locating levers with a six-inch C-clamp. Remove tilt lock lever pivot pin using a drift. Slowly release spring tension by loosening C-clamp and remove steering column locking levers and springs.



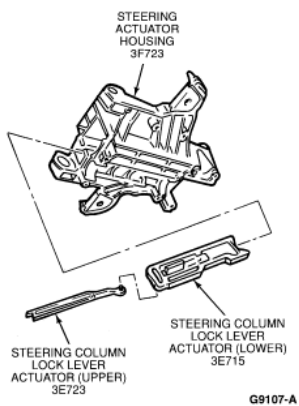


### Assembly

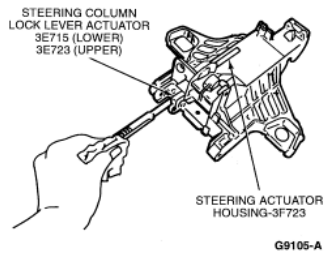
1. With actuator housing upside down, slide steering shaft into steering actuator housing.



2. Lubricate lower steering column lock lever actuator (3E715) and upper steering column lock lever actuator with Ignition Lock Grease F0AZ-19584-A or equivalent meeting Ford specification ESA-M1C232-A.

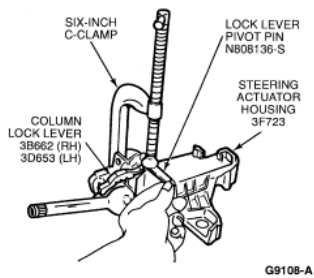


3. Put together lower steering column lock lever actuator and upper steering column lock lever actuator and slide into place in steering actuator housing.

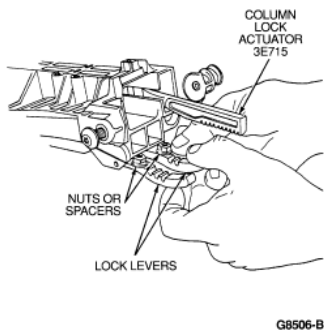


4. **NOTE: Remember, steering column actuator housing is upside down.**

Position steering column position lock spring (3B768) and left (your right) column lock lever. Using approximately 150mm (six-inch) C-clamp, compress steering column position lock spring while aligning pin hole in column lock lever with pin holes in steering actuator housing. Tap in lock lever pivot pin up to center pin support of steering actuator housing.



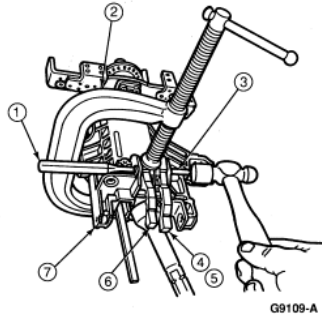
5. Insert a small nut between the column lock lever and steering actuator housing to hold up the column lock lever. Slowly loosen and remove C-clamp.



6. **NOTE: Remember that steering column actuator housing is upside down.**

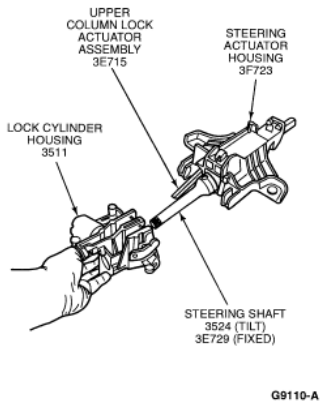
Position steering column position lock spring and right column lock lever. Using approximately 150mm (six-inch) C-clamp, compress steering column position lock spring while aligning pin hole in column lock lever with pin holes in steering actuator housing. Align with a punch; leave punch in place.

7. Tap in lock lever pivot pin, driving out punch at the same time, until left end of pin (your right) is flush with the pin support of the steering actuator housing.

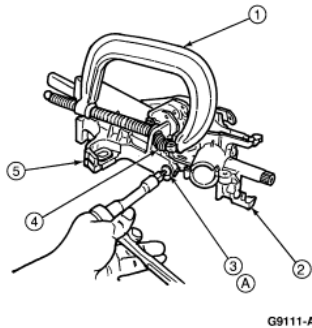


Item	Part Number	Description
1	—	Punch
2	—	Six-Inch C-Clamp
3	N808136-S	Lock Lever Pivot Pin
4	3D653	Column Lock Lever, Tilt (Left)
5	3D653	Column Lock Lever, Fixed (Left)
6	3B662	Column Lock Lever, Tilt (Right)
7	3F723	Steering Actuator Housing

8. Position nut between right (your left) column lock lever and steering actuator housing. Slowly unscrew C-clamp and remove.
9. Position lock cylinder housing on steering shaft and upper steering column lock lever actuator.

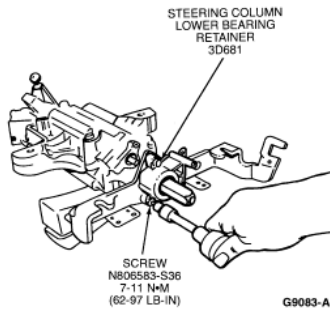


10. On tilt column:
  - a. Insert steering column position lock spring between lock cylinder housing and steering actuator housing.
  - b. Position approximately 150mm (six-inch) C-clamp on outsides of column position spring pads.
  - c. Tighten C-clamp drawing lock cylinder housing and steering actuator housing together, compressing steering column position lock spring. At the same time, use punch to align bushings in lock cylinder housing with threaded pivot bolt holes in steering actuator housing.
  - d. Lubricate pivot bolts with grease meeting Ford specification ESB-M1C163-C.
  - e. When holes and bushings are aligned, install pivot bolts and tighten to 18-26 Nm (14-19 lb-ft).
  - f. Using long, thin screwdriver, remove nuts from underneath right and left column lock levers.
  - g. Slowly loosen and remove C-clamp.



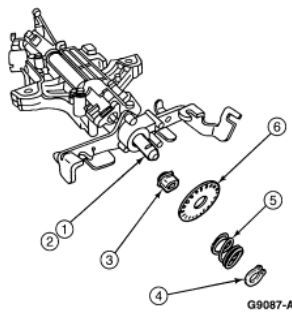
Item	Part Number	Description
1	—	Six-Inch C-Clamp
2	3511	Lock Cylinder Housing
3	N806582-S36	Pivot Bolt
4	3D655	Column Position Spring
5	3F723	Steering Actuator Housing
A	—	Tighten to 18-26 Nm (14-19 Lb-Ft)

11. On fixed column:
  - a. Position lock cylinder housing on upper steering column lock lever actuator and steering shaft.
  - b. Align bushings in lock cylinder housing with threaded pivot bolt holes in lock lever actuator housing.
  - c. Lubricate pivot bolts with grease meeting Ford specification ESB-M1C163-C.
  - d. When holes and bushings are aligned, install pivot bolts and tighten to 18-26 Nm (14-19 lb-ft).
  - e. Using long, thin screwdriver, remove nut from underneath left column lock lever.
12. Install steering column lower bearing retainer and steering column lower mounting bracket. Tighten screws to 7-11 Nm (5-8 lb-ft).



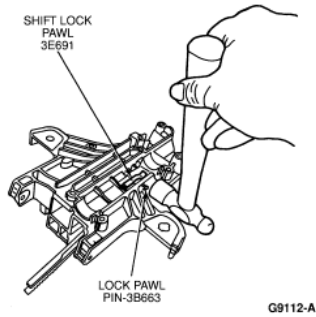
13. On tilt column: install suspension height sensor control ring, steering column bearing tolerance ring and steering column upper bearing spring to steering shaft.
14. On fixed column: install steering column bearing tolerance ring and bearing retainer (3C610).

**Suspension Height Sensor Control Ring**

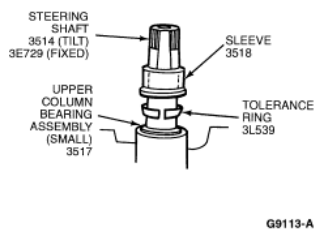


Item	Part Number	Description
1	3524	Steering Gear Column Shaft (Tilt)
2	3E729	Steering Gear Column Shaft (Fixed)
3	3L539	Steering Column Upper Bearing Tolerance Ring
4	3C610	Bearing Retainer
5	3520	Steering Column Upper Bearing Spring
6	3C131	Suspension Height Sensor Control Ring

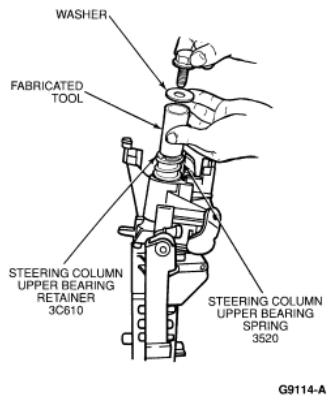
15. Position steering column lock pawl (3E691) in steering actuator housing (3F723) and install steering lock with small hammer. Tap steering lock pawl pin in until flush with steering actuator housing.



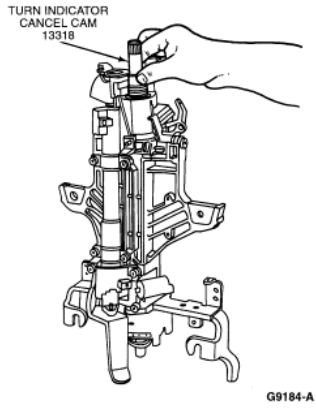
16. Install tolerance ring and sleeve over steering shaft to upper bearing.



17. Install steering column upper bearing spring and new snap ring on top side of steering column upper bearing spring using a 19mm (3/4-inch) I.D. by 63.5mm (2-1/2-inch) long PVC pipe.

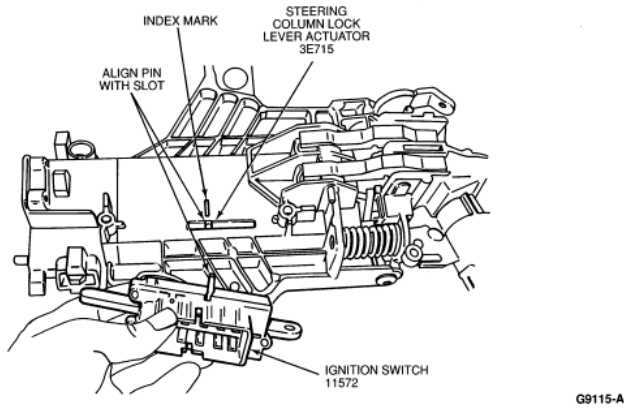


18. Install turn indicator cancel cam, flush surface "up."



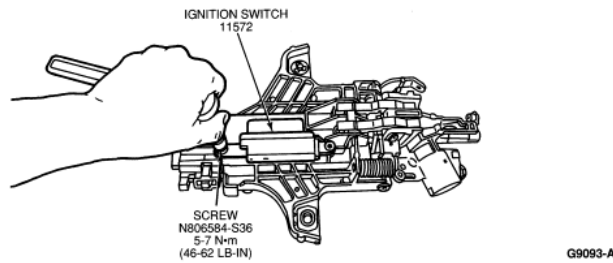
19. Install ignition switch. Align pin from ignition switch with slot in lock/column assembly. Position slot in lock/column assembly with index mark on casting. Ignition switch should be in RUN position.

**Ignition Switch Installation**

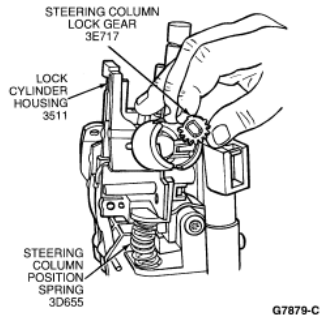


20. Tighten two retaining screws to 5-7 Nm (44-62 lb-in).

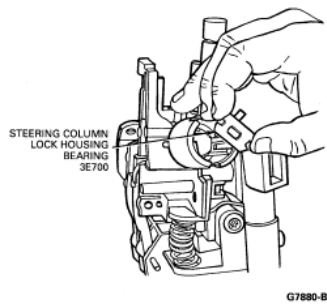
**Ignition Switch**



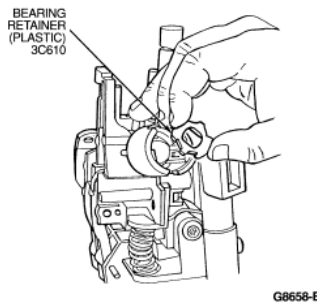
21. Install steering column lock gear. Coat gear with Ignition Lock Grease F0AZ-19584-A or equivalent meeting Ford specification ESA-M1C232-A.



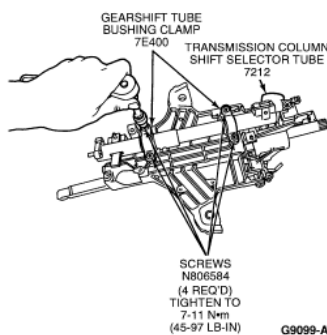
22. Lubricate steering column lock housing bearing. Lubricate with Ignition Lock Grease F0AZ-19584-A or equivalent meeting Ford specification ESA-M1C232-A. With actuator rack in 12 o'clock position, position bearing with tang inboard and in 5 o'clock position in lock cylinder. Insert tip of a screwdriver into double-D slot of bearing, then turn counterclockwise 90 degrees.



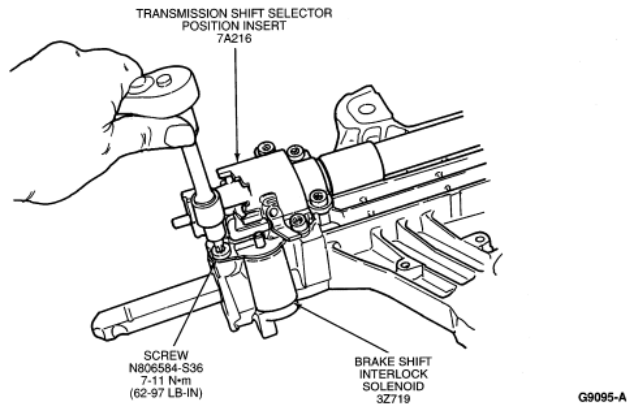
23. Install plastic bearing retainer.



24. Install shift control tube assembly (column shift only). Coat bushings with grease meeting Ford specification ESB-M1C163-C. Tighten screws to 7-11 Nm (5-8 lb-ft).

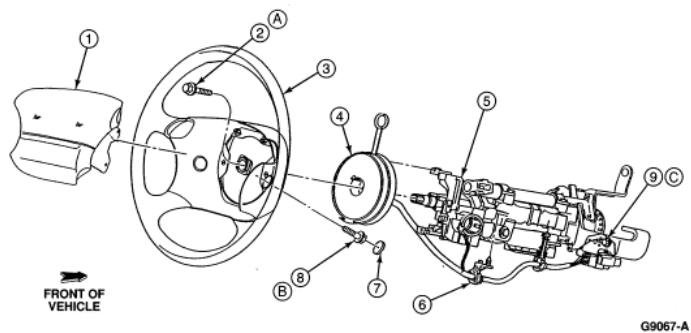


**Brake Shift Interlock Solenoid Screws**



25. Install transmission shift selector position insert and brake shift interlock solenoid assembly. Tighten screws to 7-11 Nm (45-97 lb-in).
26. Align air bag sliding contact to column shaft and mounting tabs and slide onto shaft. Push on air bag sliding contact to snap three tabs onto lock cylinder housing.
27. Install air bag sliding contact connector retainers into holes in steering column.
28. Install air bag sliding contact retainers into holes in steering column bend bracket.
29. Install key warning chime contact and anti-theft contact into ignition lock cylinder pocket in lock cylinder housing. Make sure contacts do not slip out of ignition lock cylinder pocket.

**Steering Wheel with Air Bag**



Item	Part Number	Description
1	043B13	Driver Side Air Bag Module
2	N807493-S100	Torx® Head Screw, M10-1.5 x 18
3	3600	Steering Wheel
4	14A664	Air Bag Sliding Contact
5	3C529	Steering Column
6	390345-S424	Clip
7	3F785	Plug
8	N808944-S424	Bolt
9	N805375-S36MG	Bolt
A	—	Tighten to 34-46 Nm (25-33 Lb-Ft)
B	—	Tighten to 7.6-10.4 Nm (67-92 Lb-In)
C	—	Tighten to 10.2-13.8 Nm (7.5-10.1 Lb-Ft)

30. Install upper steering column shroud.
31. Push ignition switch lock cylinder into place.



32. Install lower steering column shroud.
  33. Screw in tilt wheel handle and shank and tighten on tilt column.
  34. Install steering column assembly as outlined in this section.
-