

SECTION : 6E

STEERING WHEEL AND COLUMN

CAUTION : Disconnect the negative battery cable before removing or installing any electrical unit or when a tool or equipment could easily come in contact with exposed electrical terminals. Disconnecting this cable will help prevent personal injury and damage to the vehicle. The ignition must also be in LOCK unless otherwise noted.

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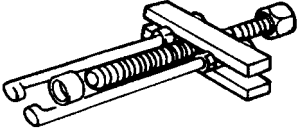
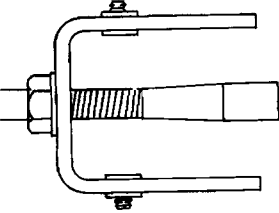
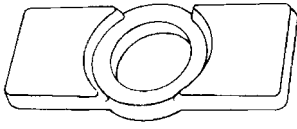
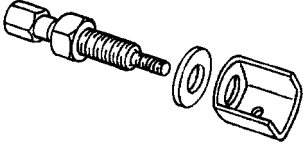
SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Application	N•m	Lb-Ft	Lb-In
Ignition Switch Housing Shear Bolts	11	–	97
Ignition Switch Retaining Screw	2	–	18
Steering Column Jacket Assembly Front Bracket Bolts	22	16	–
Steering Column Jacket Assembly Rear Bracket Nuts	22	16	–
Steering Shaft Universal Joint Pinch Bolt	25	18	–
Steering Wheel Horn Cap Screws	4.5	–	40
Steering Wheel Nut	23	17	–
Steering Wheel Rotation Sensor Retaining Screw	2	–	18
Support Housing Screws	16	12	–
Turn Signal Switch Housing Screws	3	–	27
Upper and Lower Steering Column Cover Panel Screws	3	–	27

SPECIAL TOOLS

SPECIAL TOOLS TABLE

 <p>A110B008</p>	<p>KM-210-A Steering Wheel Puller</p>	 <p>A105E053</p>	<p>J-23653-A Lock Plate Compressor</p>
 <p>A105E052</p>	<p>J-36667 Lock Plate Adapter (tilt)</p>	 <p>A105E063</p>	<p>J-21854-01 Pivot Pin Remover</p>

DIAGNOSIS

STEERING COLUMN DIAGNOSIS

Lock System

Lock System Will Not Unlock

Checks	Action
Check the lock cylinder for damage.	Replace the lock cylinder.
Check the ignition switch for lack of free movement.	Lubricate the ignition switch.
Check the steering column housing for binding or damage.	Remove the steering shaft and clear the steering column housing. Replace the steering column housing as needed.

Lock System Will Not Lock

Checks	Action
Check the lock cylinder for damage.	Replace the lock cylinder.
Check the ignition switch for a lack of free movement.	Lubricate the ignition switch.
Check the steering column housing for binding or damage.	Remove the steering shaft and clear the steering column housing. Replace the steering column housing as needed.

High Lock Effort

Checks	Action
Check the lock cylinder for damage.	Replace the lock cylinder.
Check the ignition switch for lack of free movement.	Lubricate the ignition switch.
Check for extreme misalignment of the housing to the cover.	Realign the cover on the housing. Replace the cover as needed.
Check for a bent ignition switch mounting bracket.	Replace the ignition switch mounting bracket.

Key Cannot Be Removed in the LOCK Position

Checks	Action
Check to see that the ignition switch is set correctly.	Reset the ignition switch.
Check the lock cylinder for damage.	Replace the lock cylinder.

Column**Noise in the Column**

Checks	Action
Check the steering gear-to-column joints for improper installation.	Tighten the steering shaft universal joint pinch bolts. Replace the steering shaft joints as needed.
Check the steering shaft bearing for wear or damage.	Replace the steering shaft bearing.
Check the spherical joint for lack of lubrication.	Lubricate the spherical joint.
Check the steering shaft for lack of lubrication.	Lubricate the steering shaft bearing.
Check the shaft lock snap ring for improper seating.	Adjust the shaft lock snap ring. Replace the shaft lock snap ring as needed.

High Steering Shaft Effort

Checks	Action
Check the steering shaft bearing for wear or damage.	Replace the steering shaft bearing.
Check for an improperly installed or deformed dust seal.	Replace the dust seal.
Check for a damaged upper or lower bearing.	Replace the upper or the lower bearing.
Check the steering shaft universal joints for a lack of free movement.	Lubricate the steering shaft universal joints. Replace the steering shaft universal joints as needed.

Lash in the Steering Column

Checks	Action
Check the steering column bracket mounting bolts for improper installation.	Tighten the steering column bracket mounting bolts.
Check for broken weld nuts on the steering column jacket.	Replace the steering column jacket.
Check for loose steering column housing-to-steering column jacket support screws.	Tighten the support screws.

Loose Steering Wheel

Checks	Action
Check for excessive clearance between the holes in the steering wheel support or the housing and the pivot-pin diameters.	Replace the pivot pins with pivot pins of the correct size.
Check to see if the upper bearing is seated correctly in the housing.	Correctly seat the upper bearing. Replace the upper bearing as needed.
Check for loose steering column housing support screws.	Tighten the steering column housing support screws.

Noise When Tilting the Column

Checks	Action
Check for worn upper tilt bumpers.	Replace the upper tilt bumpers.
Check for tilt spring binding.	Adjust the tilt spring. Replace the tilt spring as needed.

Turn Signal/Dimmer Switch**Turn Signal Will Not Stay in the Turn Position**

Checks	Action
Check the turn signal switch for an improper installation.	Remove and inspect the turn signal switch. Reinstall the switch.
Check the cancelling mechanism for broken or missing components.	Replace the cancelling mechanism.
Check the turn signal switch housing for foreign material.	Remove any foreign material.

Turn Signal Will Not Cancel

Checks	Action
Check the cancelling mechanism for broken or missing components.	Replace the cancelling mechanism.

Turn Signal/Dimmer Switch Difficult to Operate

Checks	Action
Check the turn signal/dimmer switch and turn signal/dimmer switch lever for improper installation.	Remove and inspect the turn signal/dimmer switch and signal/dimmer switch lever. Reinstall the signal/dimmer switch and signal/dimmer switch lever.
Check the signal/dimmer switch housing for foreign material.	Remove any foreign material.

Turn Signal Will Not Indicate Lane Change

Checks	Action
Check for a broken lane change pressure pad or a broken spring hanger.	Replace the lane change pressure pad or the spring hanger.
Check for improper functioning of the lane change spring.	Replace the lane change spring.
Check the turn signal switch for improper installation.	Replace the turn signal switch.

No Turn Signal Lights

Checks	Action
Check for an inoperative turn signal flasher.	Replace the turn signal flasher.
Check for a faulty turn signal switch.	Replace the turn signal switch.
Check the chassis-to-column connector for an improper connection.	Reconnect the chassis-to-column connector.

Turn Indicator Lights On, but Not Flashing

Checks	Action
Check for an inoperative turn signal flasher.	Replace the turn signal flasher.
Check for a faulty turn signal switch.	Replace the turn signal switch.
Check the chassis-to-column connector for an improper connection.	Reconnect the chassis-to-column connector.

Front or Rear Turn Signal Lights Not Flashing

Checks	Action
Check for a faulty turn signal switch.	Replace the turn signal switch.
Check the chassis-to-column connector for an improper connection.	Reconnect the chassis-to-column connector.

Turn Signal Lights Flash Very Slowly

Checks	Action
Check the chassis-to-column connector for an improper connection.	Reconnect the chassis-to-column connector.

Ignition Switch**Electrical System Will Not Function**

Checks	Action
Check the ignition switch for damage.	Replace the ignition switch.
Check the ignition switch for improper installation.	Remove and inspect the ignition switch. Reinstall the ignition switch.
Check the ignition switch electrical connector for improper installation.	Reconnect the ignition switch electrical connector. Replace the ignition switch electrical connector.

Ignition Switch Will Not Turn

Checks	Action
Check the ignition switch for damage.	Replace the ignition switch.
Check the ignition switch for improper installation.	Remove and inspect the ignition switch. Reinstall the ignition switch.

Wiper/Cruise Control Switch Lever**Switch Inoperative: No LOW, HIGH, INTERMITTENT or WASH**

Checks	Action
Check the wiper switch for damage.	Replace the wiper/cruise control switch.
Check the wiper switch for improper installation.	Remove and inspect the wiper/cruise control switch. Reinstall the wiper/cruise control switch.
Check the cruise control switch for damage.	Replace the wiper/cruise control switch.

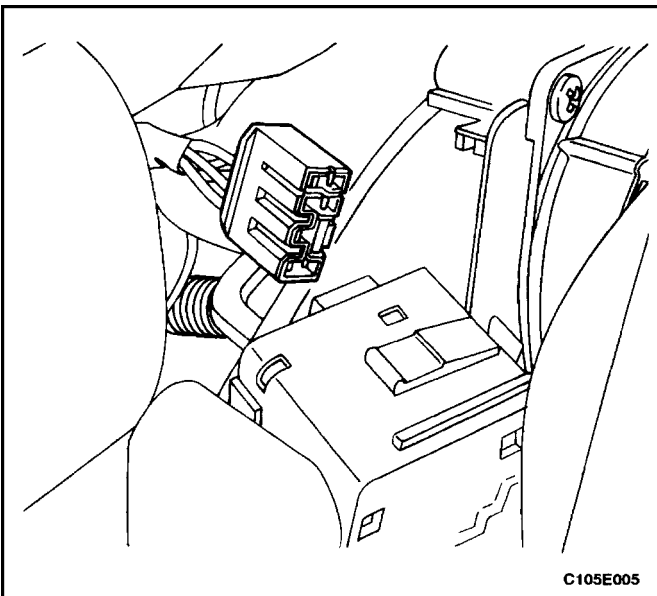
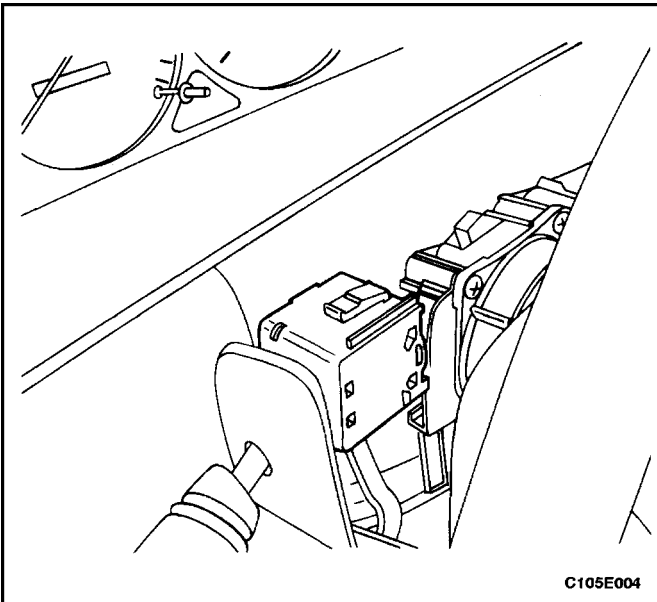
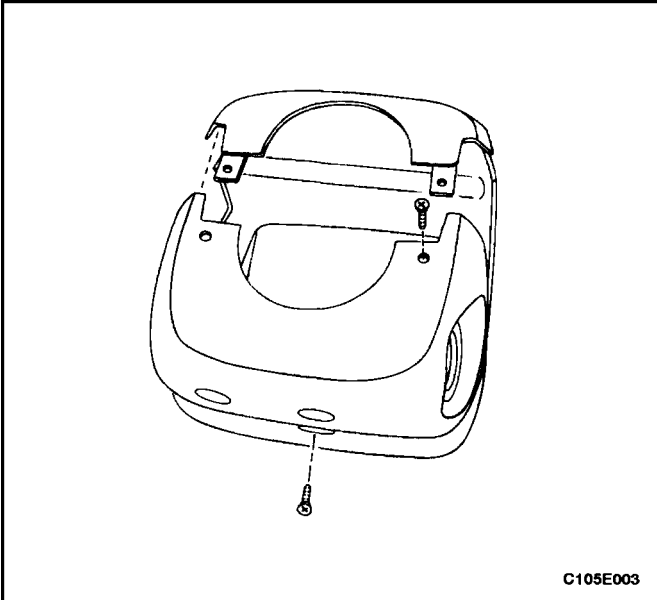
MAINTENANCE AND REPAIR

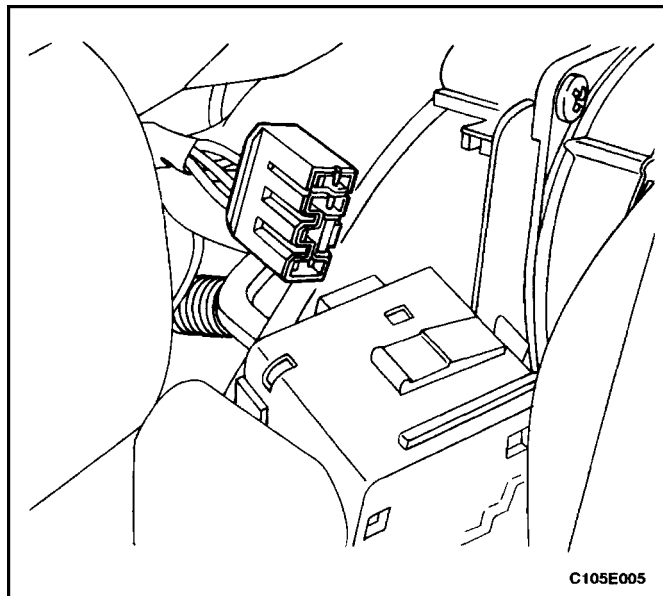
ON-VEHICLE SERVICE

HEADLAMP/TURN SIGNAL SWITCH AND LEVER

Removal Procedure

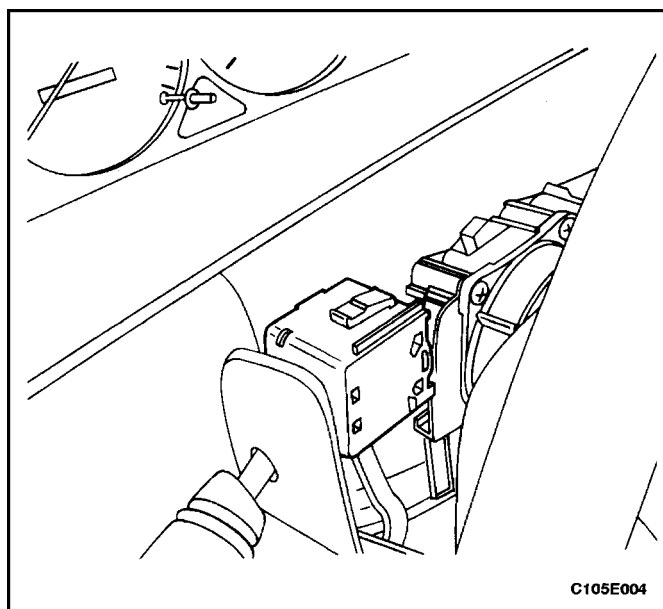
1. Disconnect the negative battery cable.
2. Remove the upper and the lower steering column cover panel screws.
3. Remove the upper and the lower steering column cover panels.
4. Remove the turn signal switch by pushing in on the tabs on the top and the bottom of the switch housing.
5. Disconnect the electrical connections from the turn signal switch.



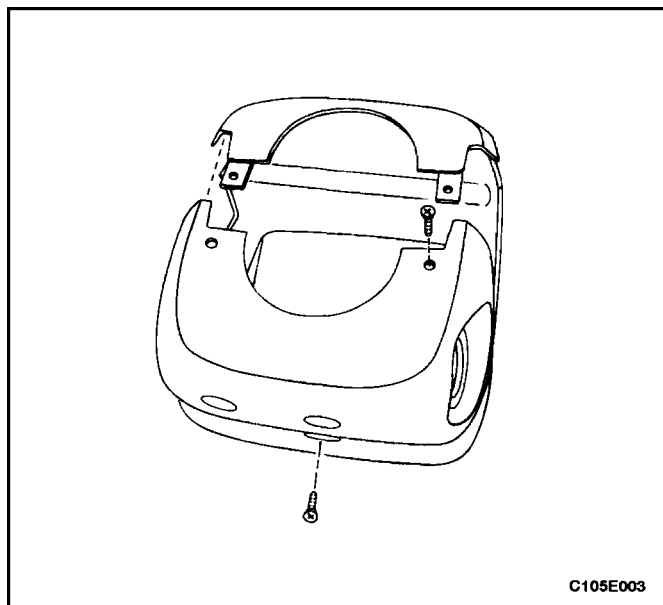


Installation Procedure

1. Connect the electrical connections to the turn signal switch.



2. Install the turn signal switch by snapping it into the switch housing.

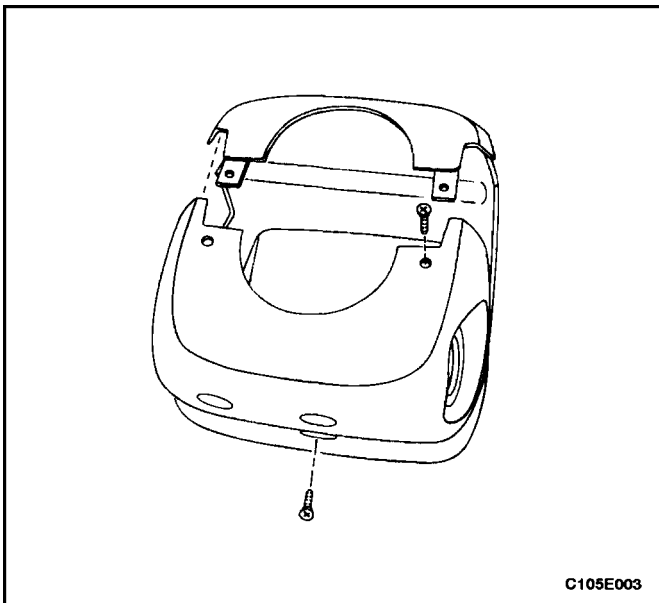


3. Install the upper and the lower steering column cover panels. Install the upper and the lower steering column cover panel screws.

Tighten

Tighten the upper and the lower steering column cover panel screws to 3 N•m (27 lb-in).

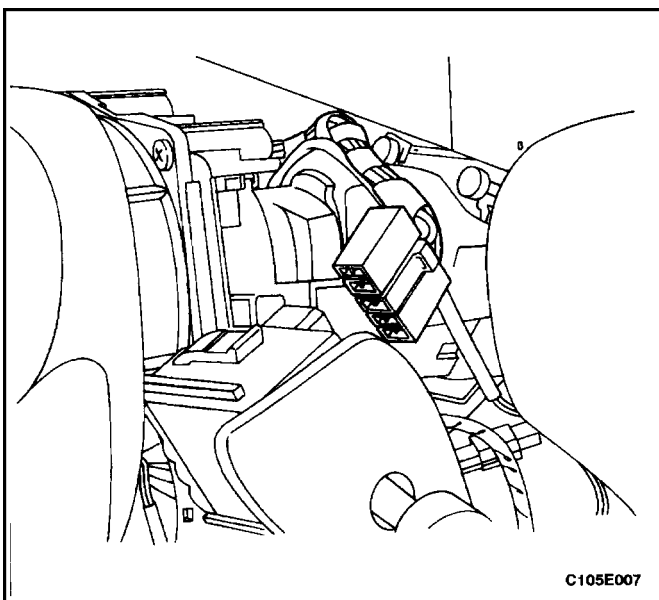
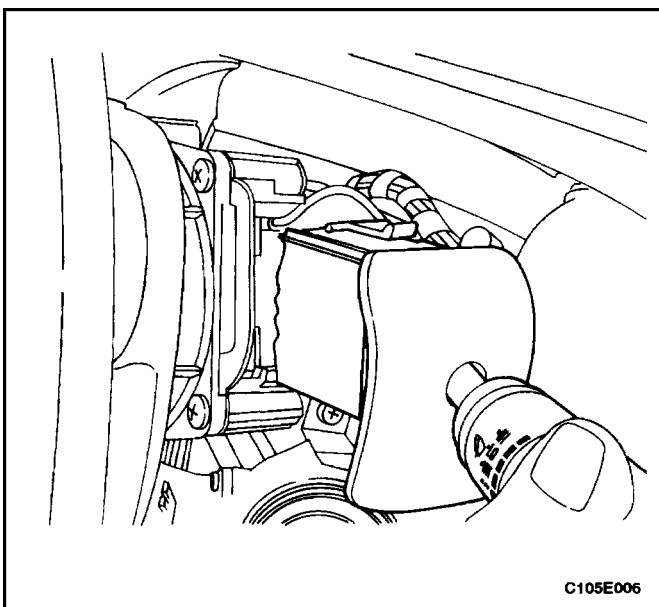
4. Connect the negative battery cable.

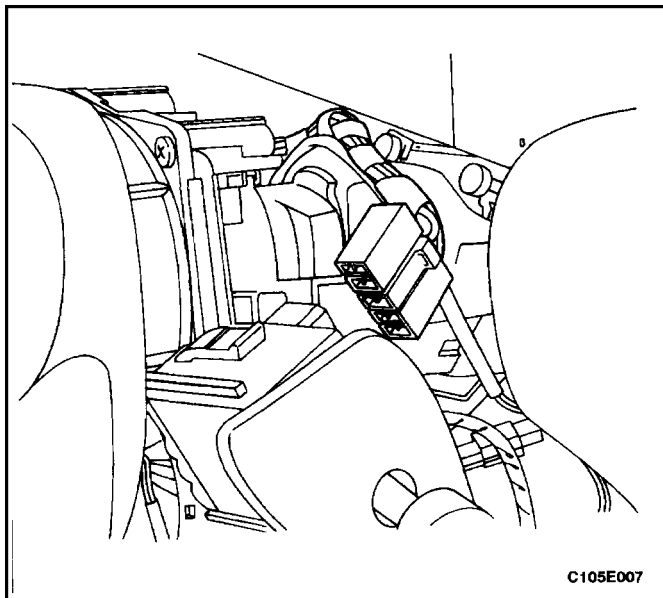


WIPER/CRUISE CONTROL SWITCH AND LEVER

Removal Procedure

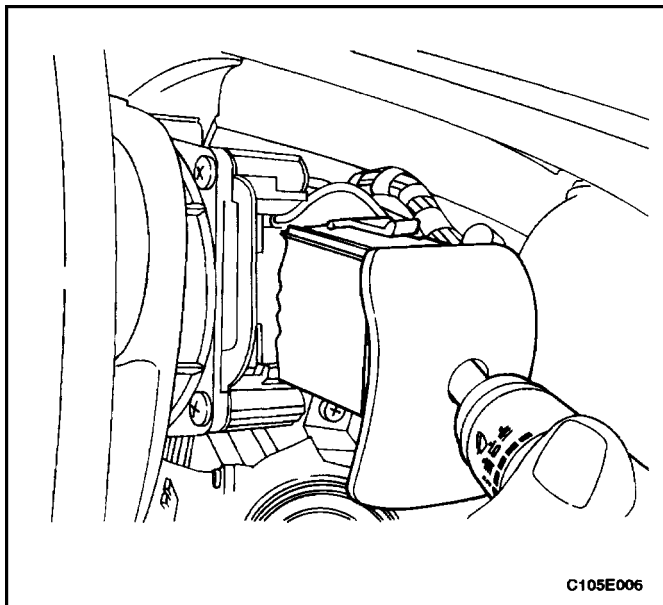
1. Disconnect the negative battery cable.
2. Remove the upper and the lower steering column cover panel screws.
3. Remove the upper and the lower steering column cover panels.
4. Remove the wiper switch by pushing in on the tabs on the top and the bottom of the switch housing.
5. Disconnect the electrical connector from the wiper switch. Disconnect the cruise control connector, if equipped.



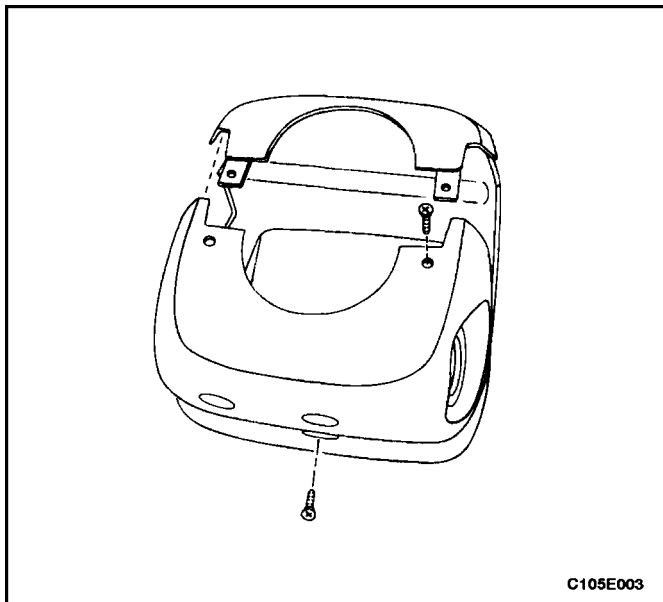


Installation Procedure

1. Connect the electrical connector to the wiper switch. Connect the cruise control connector, if equipped.



2. Install the wiper switch by snapping it into the switch housing.

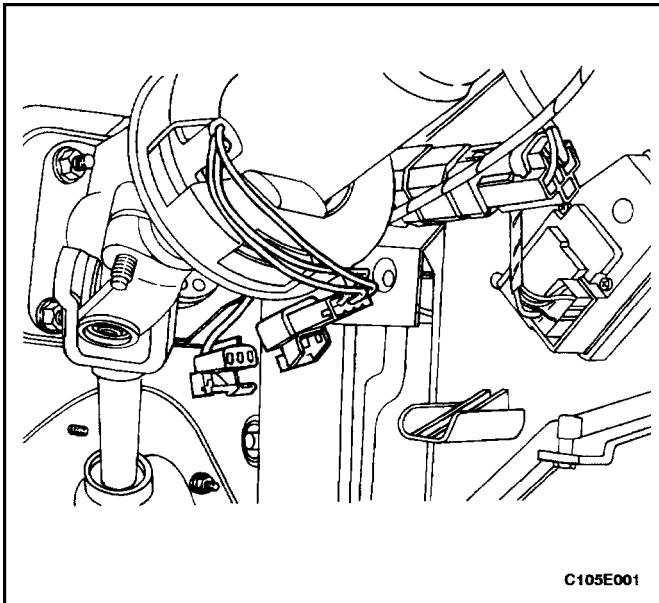


3. Install the upper and the lower steering column cover panels. Install the upper and the lower steering column cover panel screws.

Tighten

Tighten the upper and the lower steering column cover panel screws to 3 N•m (27 lb-in).

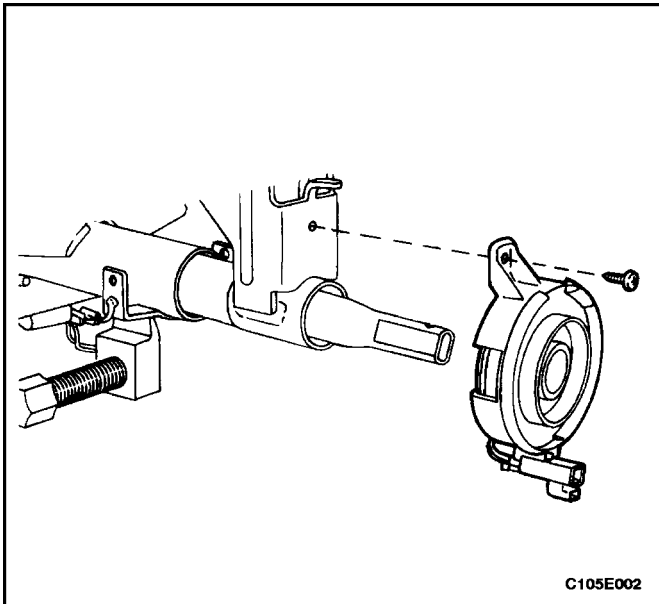
4. Connect the negative battery cable.



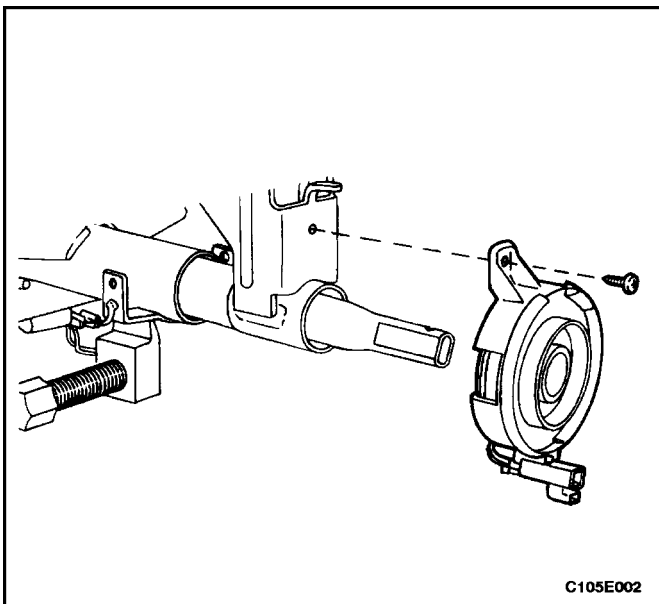
STEERING WHEEL ROTATION SENSOR

Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the upper and the lower instrument trim panels. Refer to *Section 9E, Instrumentation/Driver Information*.
3. Disconnect the steering wheel rotation sensor electrical connector.



4. Remove the intermediate shaft from the steering column to allow removal of the steering wheel rotation sensor. Refer to "Steering Column" in this section.
5. Remove the retaining screw from the steering wheel rotation sensor.
6. Remove the steering wheel rotation sensor.

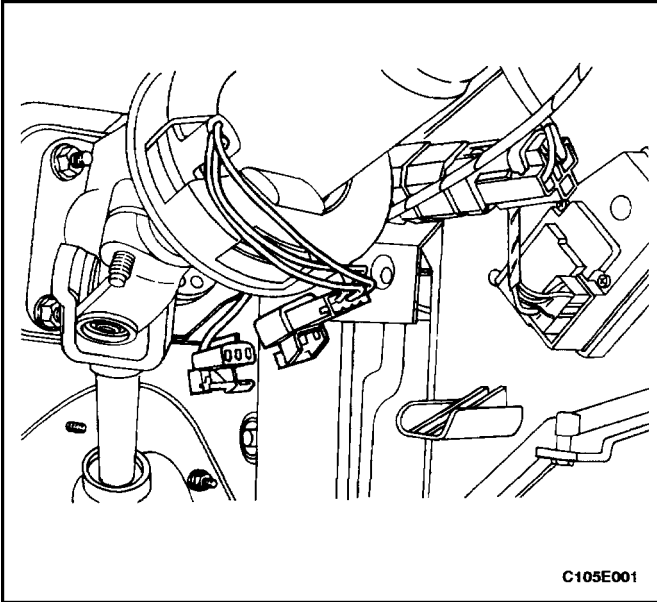


Installation Procedure

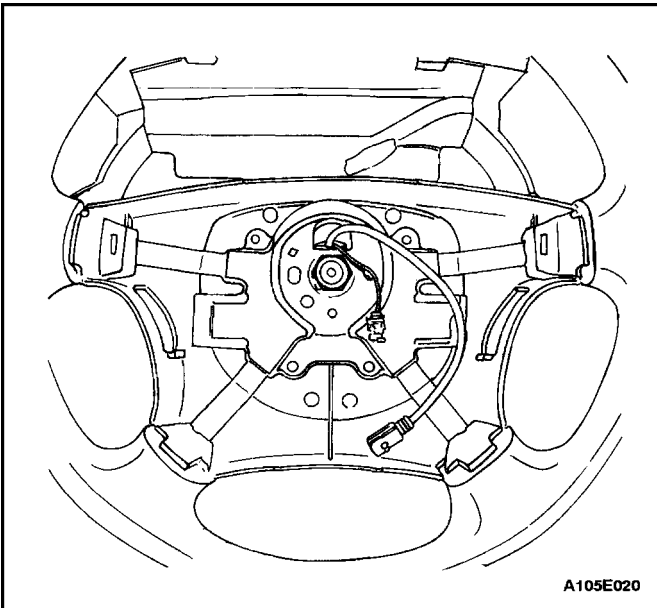
1. Install the steering wheel rotation sensor with the retaining screw.

Tighten

Tighten the steering wheel rotation sensor retaining screw to 2 N•m (18 lb-in).



2. Install the intermediate shaft onto the steering column. Refer to "Steering Column" in this section.
3. Connect the steering wheel rotation sensor electrical connector.
4. Install the upper and the lower instrument trim panels. Refer to *Section 9E, Instrumentation/Driver Information*.
5. Connect the negative battery cable.



STEERING WHEEL

Tools Required

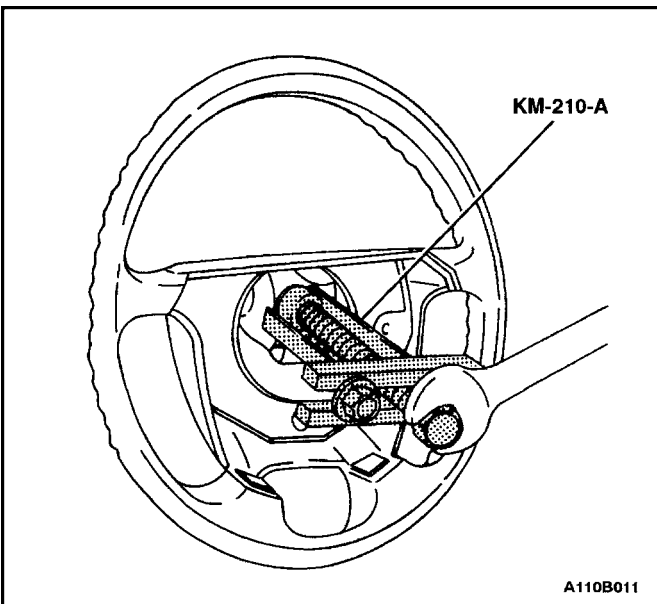
KM-210-A Steering Wheel Puller

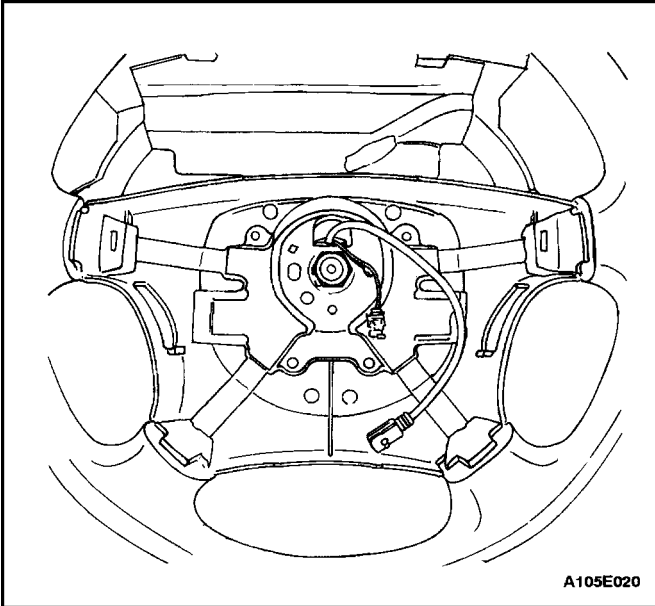
Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the SIR module. Refer to *Section 8B, Supplemental Inflatable Restraints*.
3. Remove the steering wheel nut and the retaining clip.

Important : In order to install the steering wheel correctly, match-mark the steering column shaft to the steering wheel.

4. Remove the steering wheel using the steering wheel puller KM-210-A.
5. Unclip the contact ring from the steering wheel, if necessary.





Installation Procedure

1. Clip the contact ring on the steering wheel, if necessary.

Important : In order to correctly install the steering wheel, match-mark the steering column shaft to the steering wheel.

2. Align the match marks on the steering wheel and the steering column shaft. Turn the signal canceling cam on the wheel to the left.
3. Install the retaining clip and the steering wheel nut.

Tighten

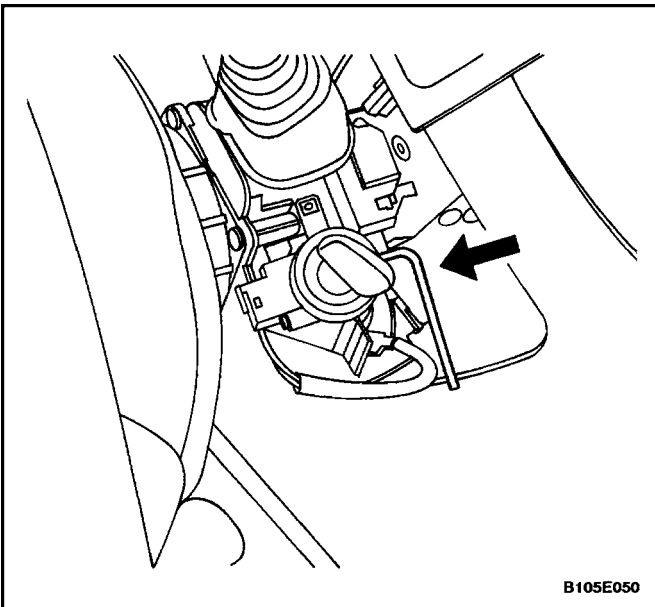
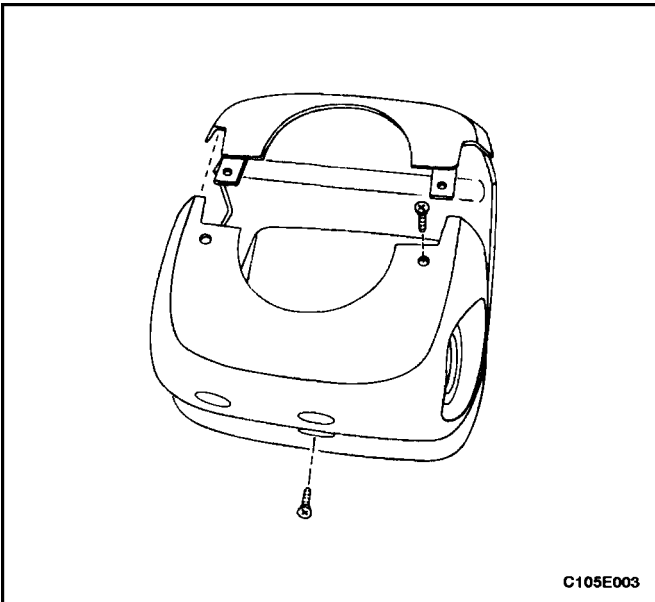
Tighten the steering wheel nut to 23 N•m (17 lb–ft).

4. Bend the tabs to secure the retaining clip.
5. Install the SIR module. Refer to *Section 8B, Supplemental Inflatable Restraints*.
6. Connect the negative battery cable.

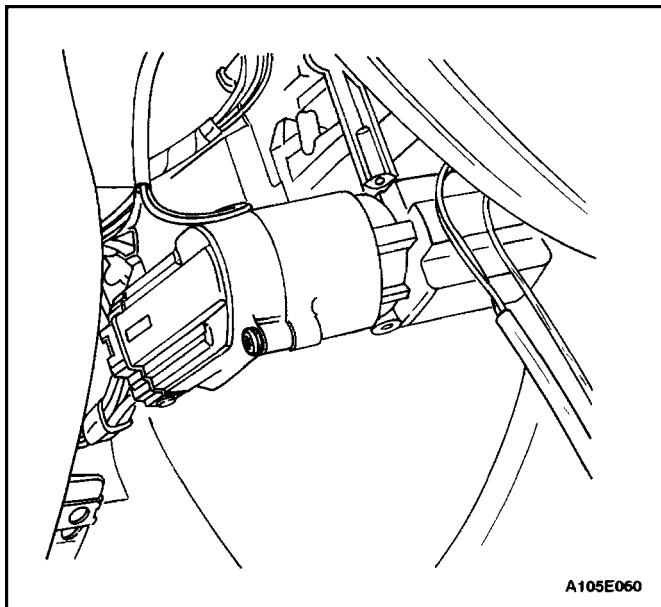
IGNITION LOCK CYLINDER AND SWITCH

Removal Procedure

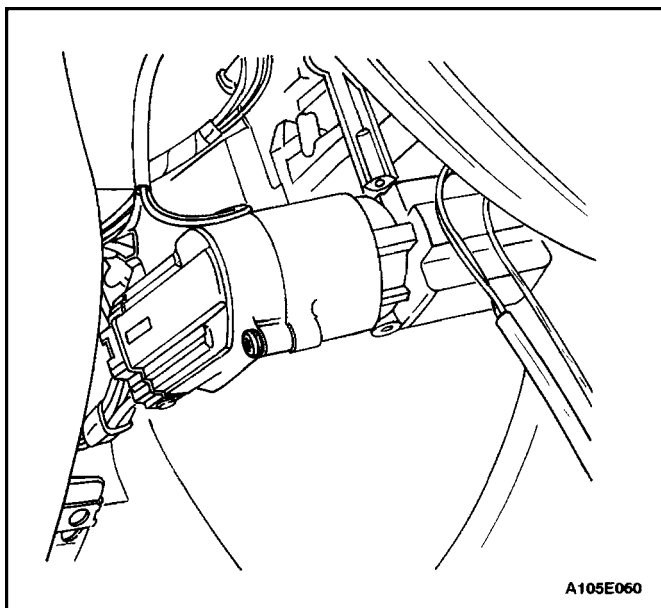
1. Disconnect the negative battery cable.
2. Remove the upper and the lower steering column cover panel by removing the screws.



3. With the key in the ignition turned to the position designated ACC, remove the lock cylinder by pressing down the detent spring and pulling the lock cylinder out of the switch cylinder housing.

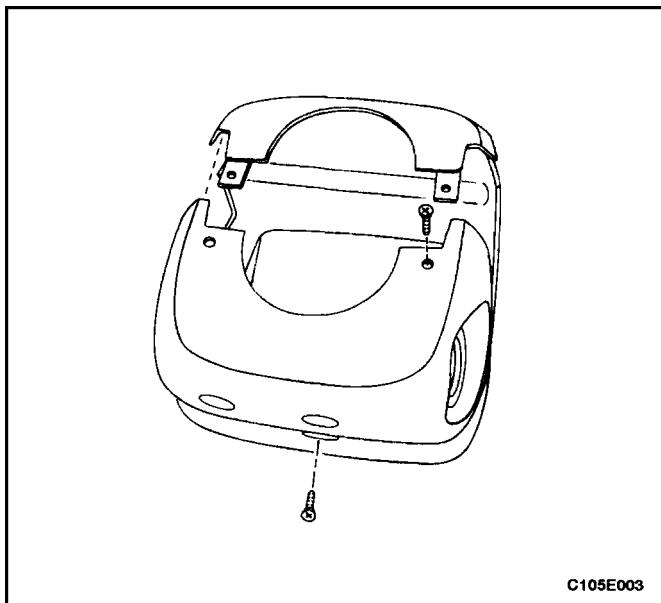


4. Remove the ignition switch retaining screw.
5. Disconnect the wiring and remove the ignition switch.



Installation Procedure

1. Install the ignition switch with the ignition switch retaining screw.
Tighten
Tighten the ignition switch retaining screw to 2 N•m (18 lb-in).
2. Connect the wiring to the ignition switch.



3. Install the lock cylinder.
4. Install the upper and the lower steering column cover panel with the screws.
Tighten
Tighten the upper and the lower steering column cover panel screws to 3 N•m (27 lb-in).
5. Connect the negative battery cable.

STEERING COLUMN

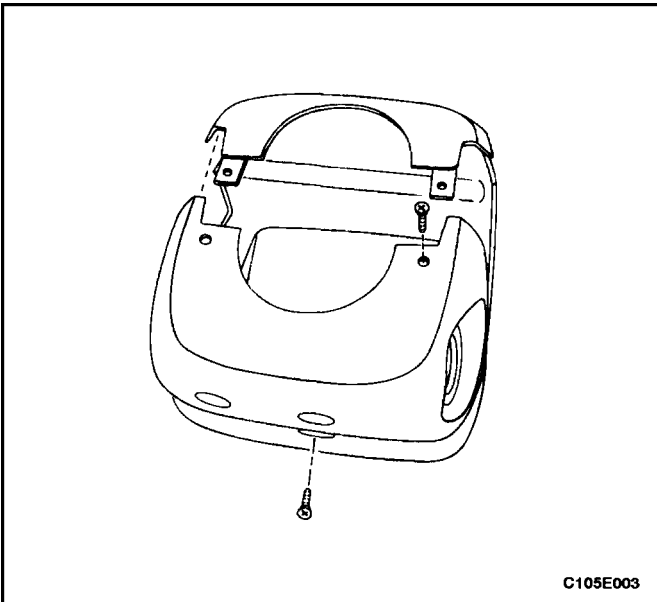
Important : Remove the steering column only if the following conditions exist:

- The steering column requires replacement.
- The steering and the ignition lock housing require replacement.
- Another operation requires the removal of the steering column.

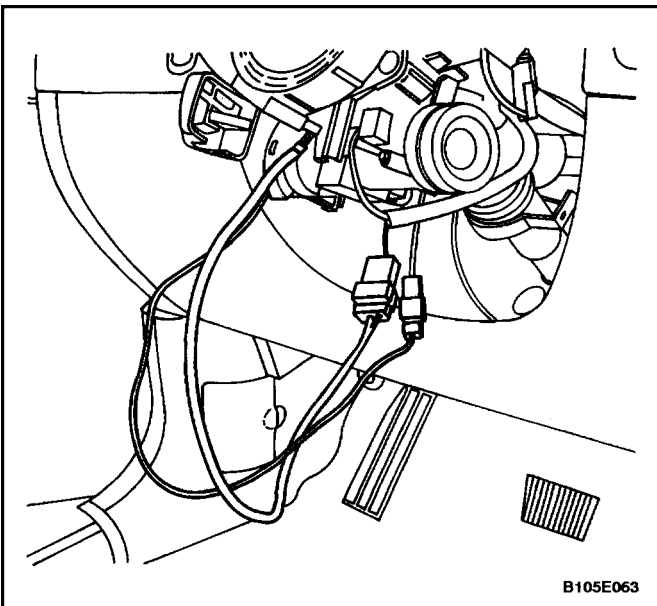
Notice : The steering column is extremely susceptible to damage after it has been removed from the vehicle. Dropping the column assembly on its end or hammering the end of the steering shaft can collapse the steering shaft or loosen the plastic injections which maintain column rigidity. Leaning on the column can cause it to bend or deform. Any of the above damage can impair the column's collapsible design. If it is necessary to remove the steering wheel, use only the specified steering wheel puller.

Removal Procedure

1. Disconnect the negative battery cable and let the vehicle sit for 1 minute to deactivate the airbag.
2. Remove the the lower instrument trim panels. Refer to *Section 9E, Instrumentation/Driver Information*.
3. Remove the switch levers. Refer to "Turn Signal Switch and Lever" and "Wiper Switch and Lever" in his section.
4. Remove the upper and the lower steering column cover panel by removing the screws.
5. Disconnect the airbag electrical connections.

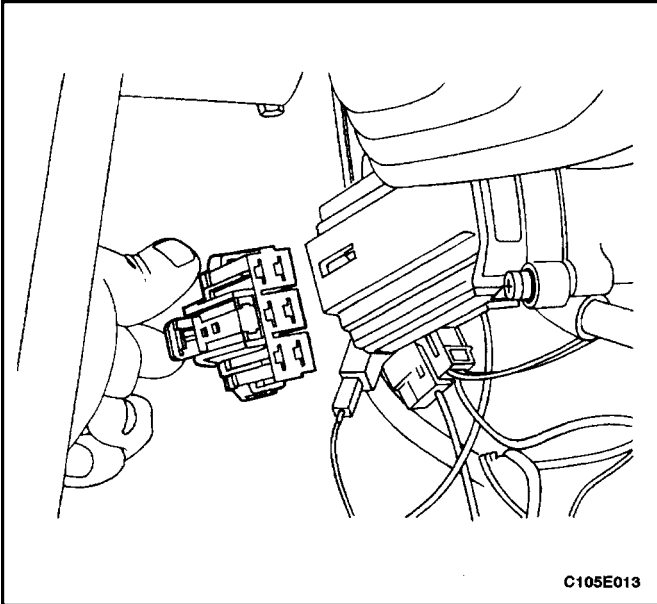


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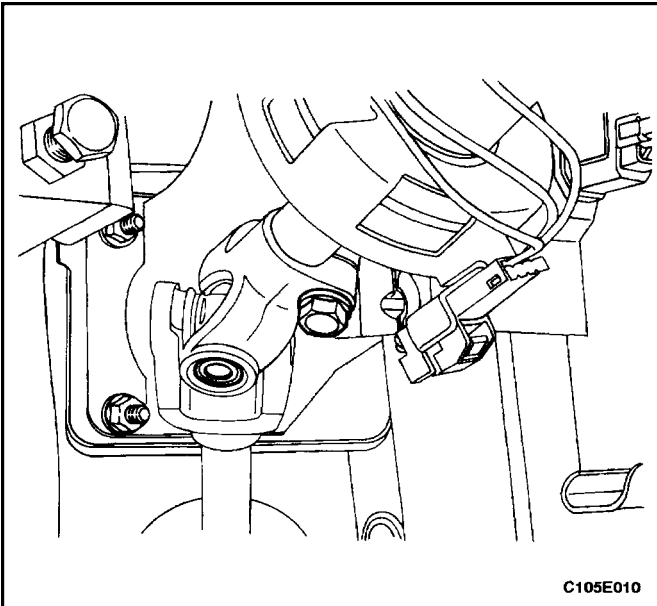


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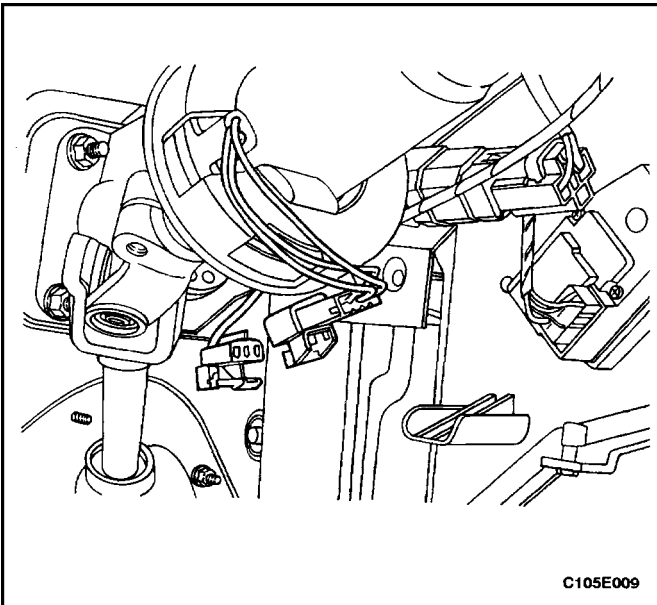
6. Disconnect the ignition switch electrical connection.

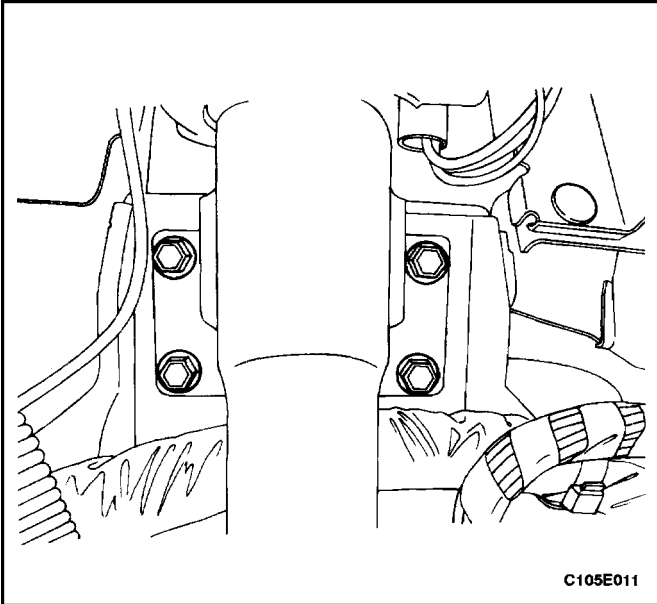


7. Adjust the steering to the straight-ahead position.
8. Remove the pinch bolt from the intermediate shaft universal joint.

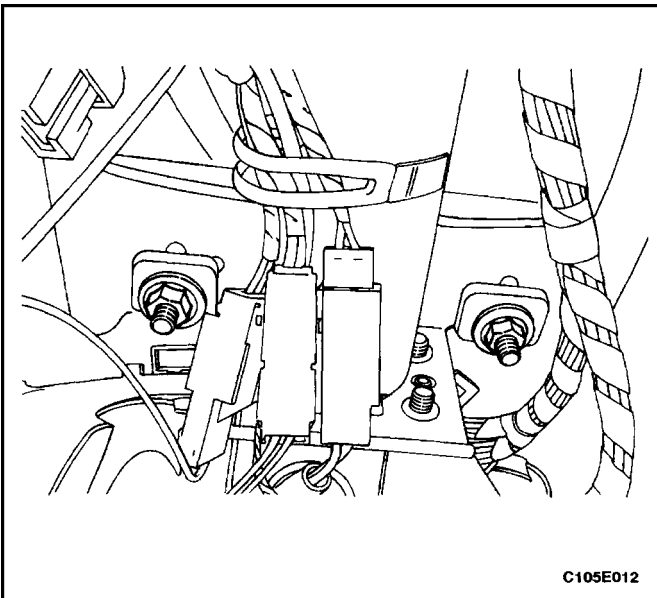


9. Disconnect the speed sensitive steering electrical connector.

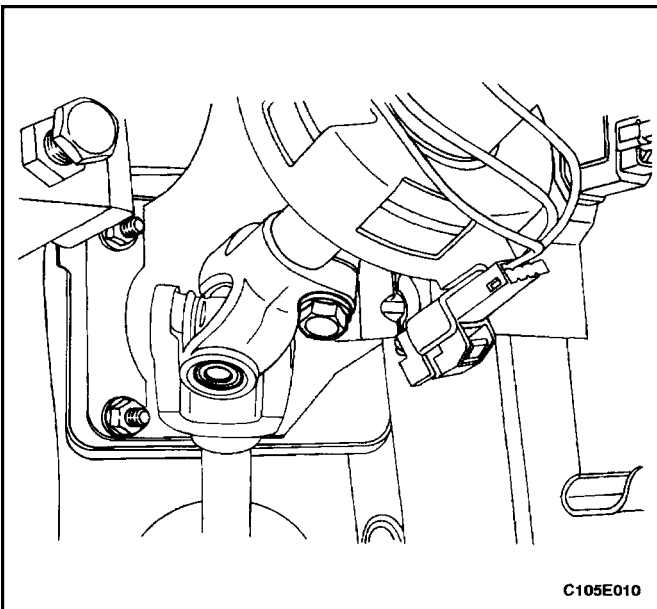




10. Remove the bolts holding the front bracket of the steering column jacket assembly.



11. Remove the nuts holding the rear bracket of the steering column jacket assembly.
12. Guide the steering column assembly out of steering shaft flange and carefully lay down the assembly.



Installation Procedure

Important : For proper installation of the steering column, be sure the steering wheel spokes are centered diagonally and pointed downward and the front wheels are positioned in the straight-ahead position.

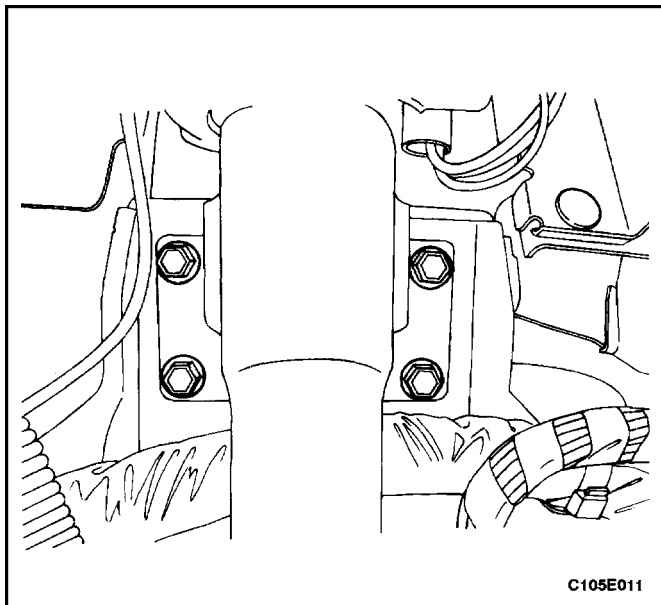
1. Carefully guide the steering shaft into the intermediate shaft universal joint.

Important : Provide support for the steering column assembly until the mounting nuts are fastened. Do not let the steering column assembly hang unsupported.

2. Install the pinch bolt into the non-threaded hole of the flange.

Tighten

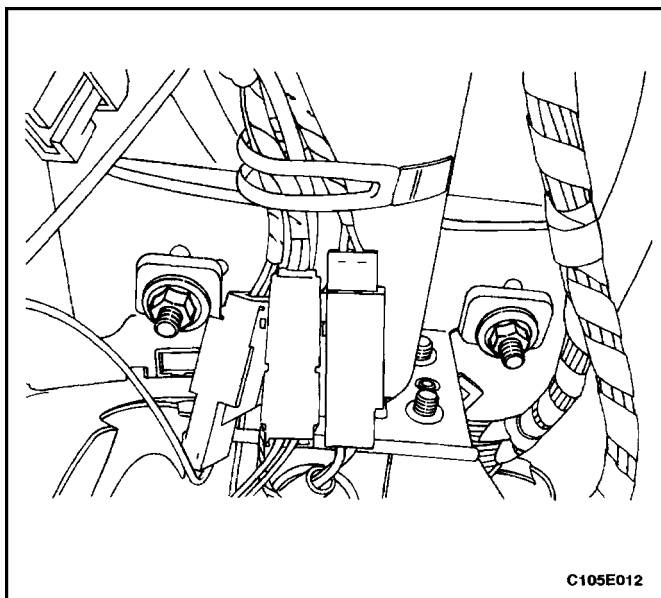
Tighten the steering shaft universal joint pinch bolt to 25 N•m (18 lb–ft).



3. Install the bolts for the front bracket of the steering column jacket assembly.

Tighten

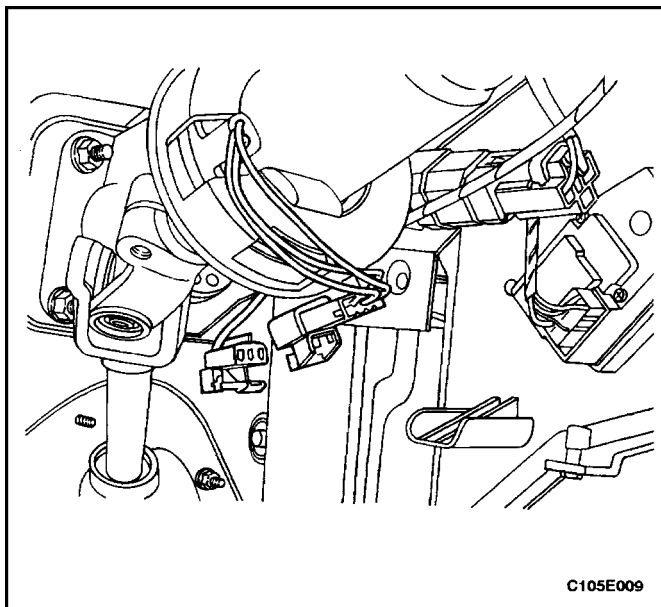
Tighten the steering column jacket assembly front bracket bolts to 22 N•m (16 lb–ft).



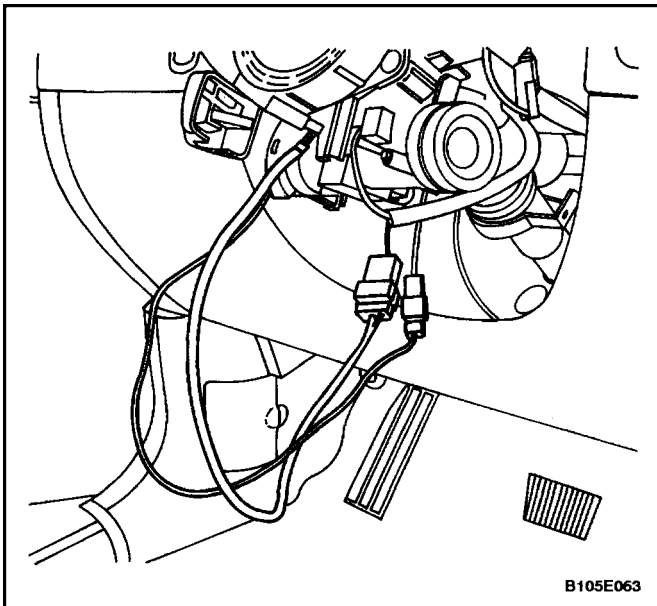
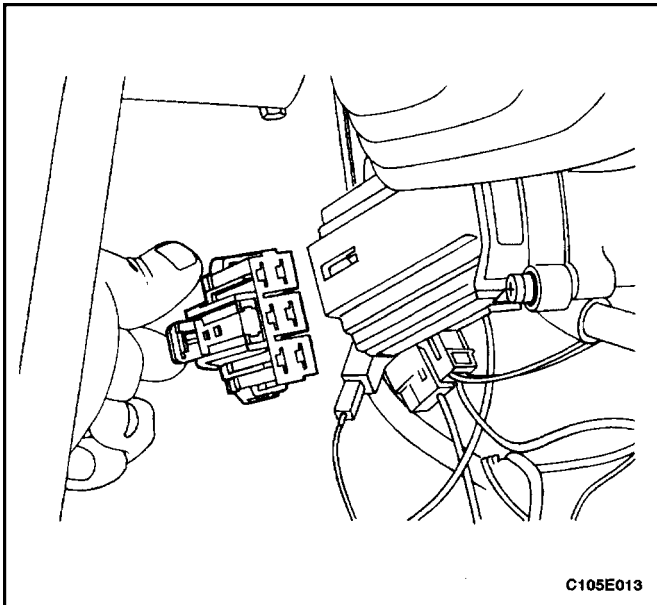
4. Install the nuts for the rear bracket of the steering column jacket assembly.

Tighten

Tighten the steering column jacket assembly rear bracket nuts to 22 N•m (16 lb–ft).



5. Connect the speed sensitive steering electrical connector.



6. Connect the ignition switch electrical connection.

7. Connect the airbag electrical connections.
8. Install the switch levers. Refer to "Turn Signal Switch and Lever" and "Wiper Switch and Lever" in this section.
9. Install the lower instrument trim panels. Refer to Section 9E, *Instrumentation/Driver Information*.
10. Install the upper and the lower steering column cover panel with the screws.

Tighten

Tighten the upper and the lower steering column panel screws to 3 N•m (27 lb-in).

11. Inspect the steering wheel in a straight-ahead position. Refer to Section 6C, *Power Steering Gear*.
12. Connect the negative battery cable.

UNIT REPAIR

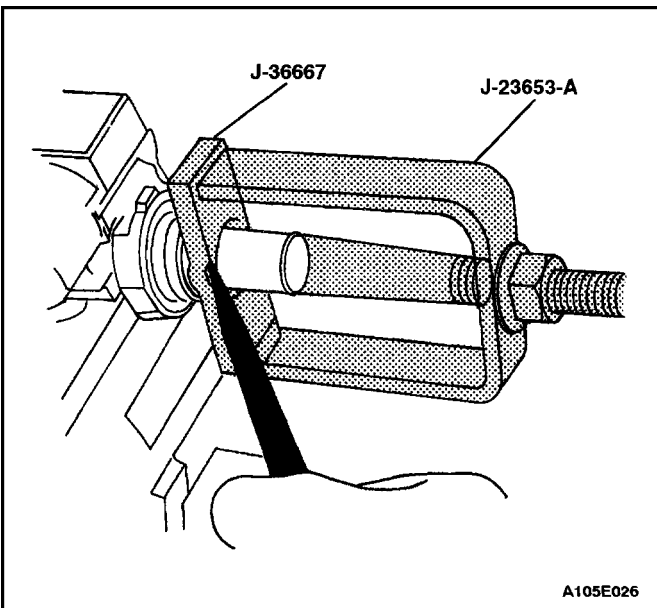
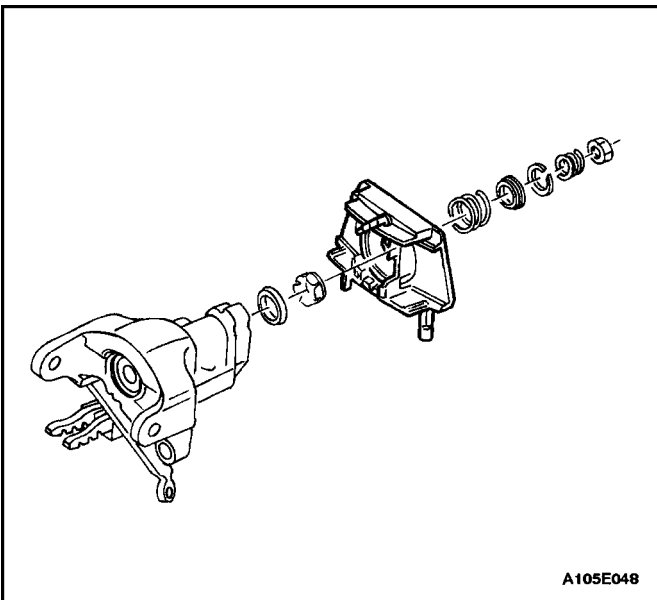
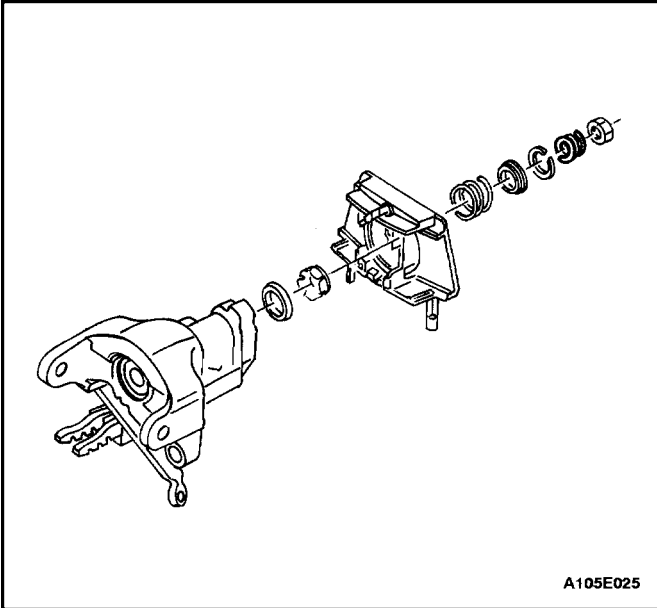
TILT STEERING COLUMN

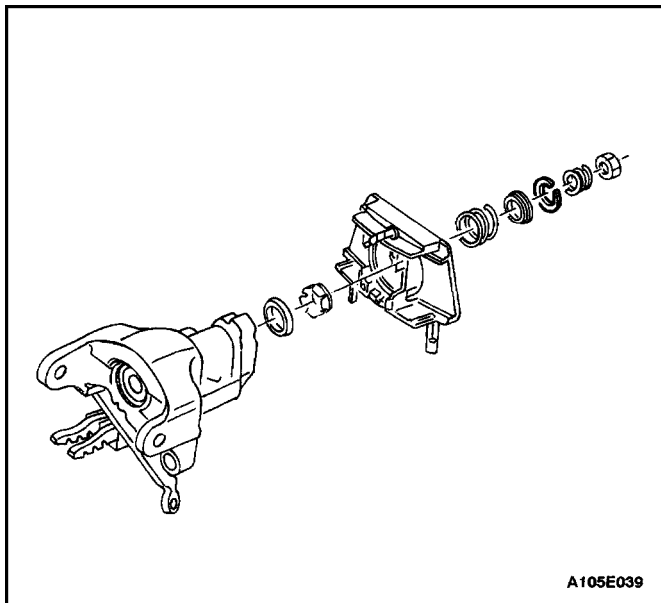
Tools Required

J-36667 Lock Plate Adapter (Tilt)
 J-23653-A Lock Plate Compressor
 J-21854-01 Pivot Pin Remover

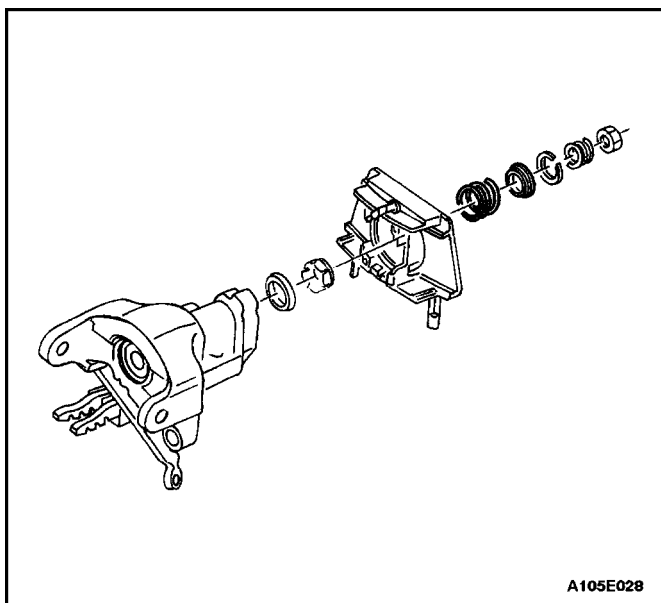
Disassembly Procedure

1. Remove the steering column from the vehicle. Refer to "Steering Column" in this section.
2. Remove the steering wheel from the steering column. Refer to "Steering Wheel" in this section.
3. Pull the canceling cam spring from the upper end of the shaft assembly, if it has not been previously removed.
4. Remove the turn signal switch housing screws. Remove the turn signal switch housing from the steering column housing.
5. Compress the spring retainer and upper bearing spring with the tilt lock plate adapter J-36667 and the lock plate compressor J-23653-A.

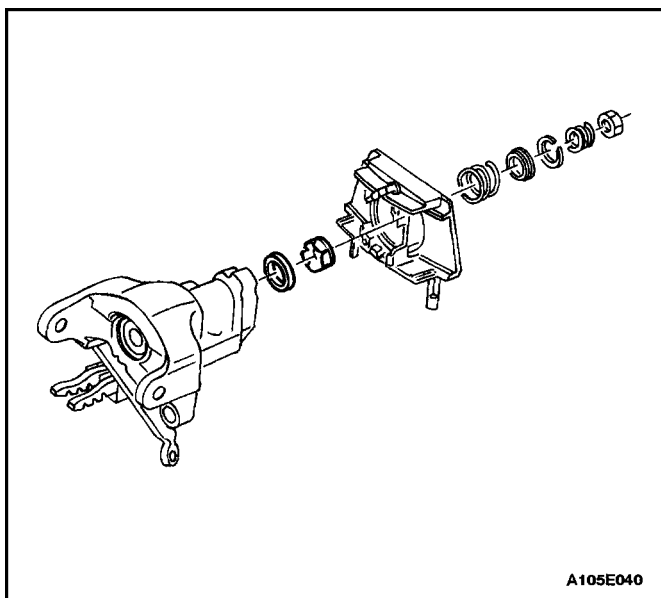




6. Remove the retaining ring.

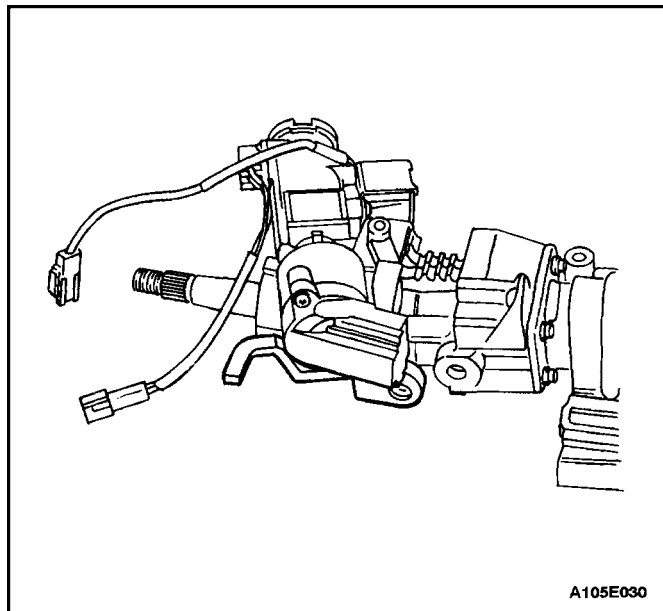


7. Remove the spring retainer and the upper bearing spring.

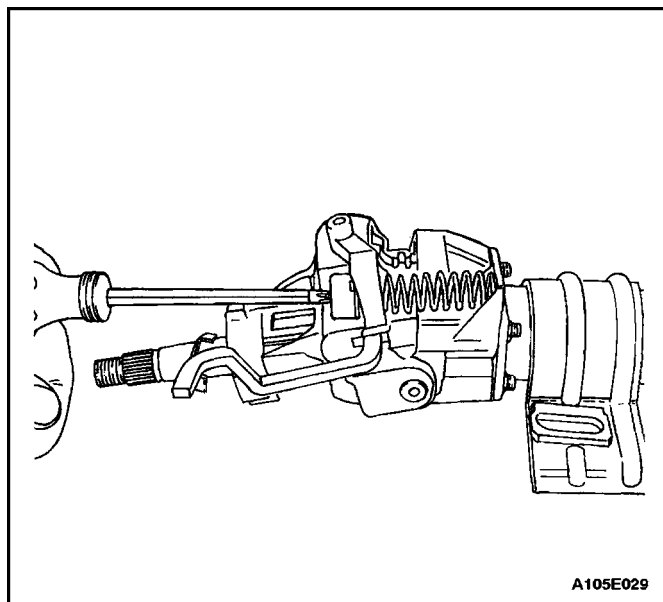


8. Remove the inner race seat and the inner race.

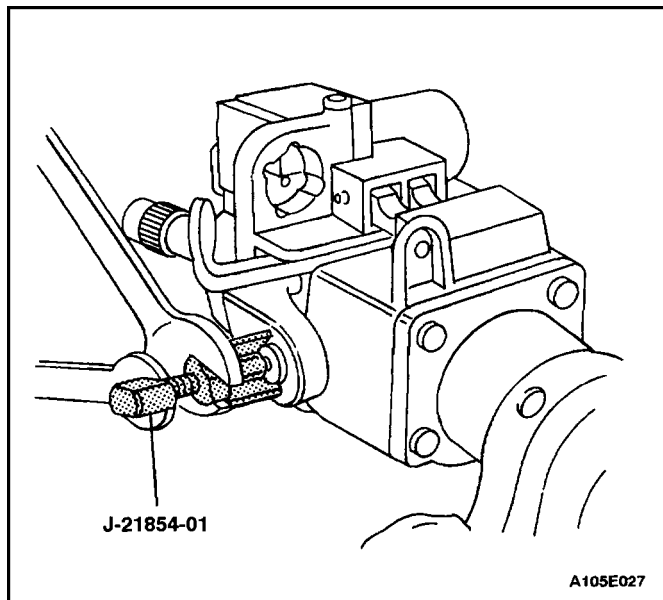
9. Pull the tilt level on the column housing assembly and tilt the column all the way up.

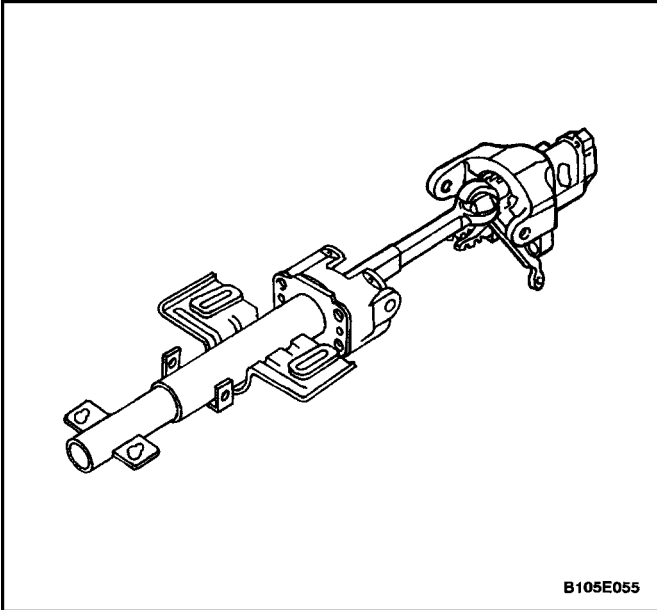


10. Insert a Phillips screwdriver into the square opening at the bottom of the spring retainer. Push and turn left to release the spring retainer and the wheel-tilt spring.
11. Remove the spring retainer and the wheel-tilt spring.

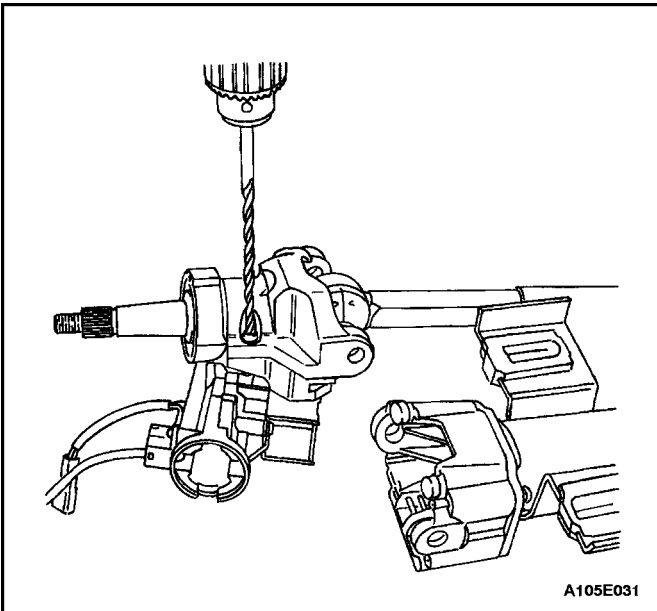


12. Remove the two pivot pins using the pivot pin remover J-21854-01.



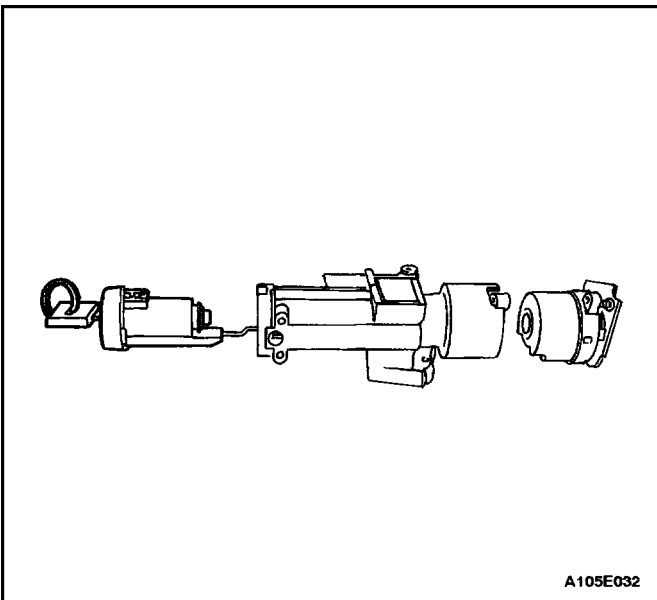


13. Place the lock cylinder in the ACC position.
14. Pull the tilt lever to release the column housing. Remove the column housing and the steering shaft from the housing support.

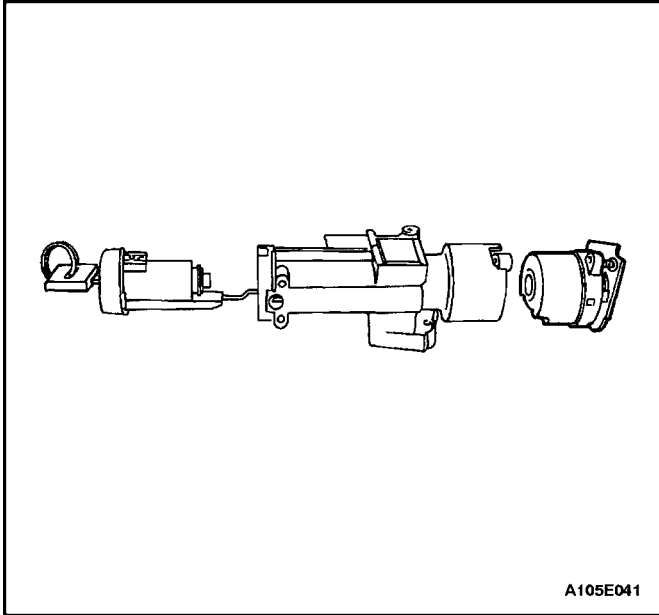


15. Remove the shear bolts, the shear bolt washers, and the ignition switch housing from the steering column housing as follows:
 - 1) Use a metal punch to start the drill head.
 - 2) Drill off the head of the shear bolts down to the steel shear bolt washers with a 6.5 mm (1/4 inch) drill bit.
 - 3) Separate the washers and the ignition switch housing from the column housing.
 - 4) Remove the threaded end of the shear bolts from the ignition switch housing with locking pliers.

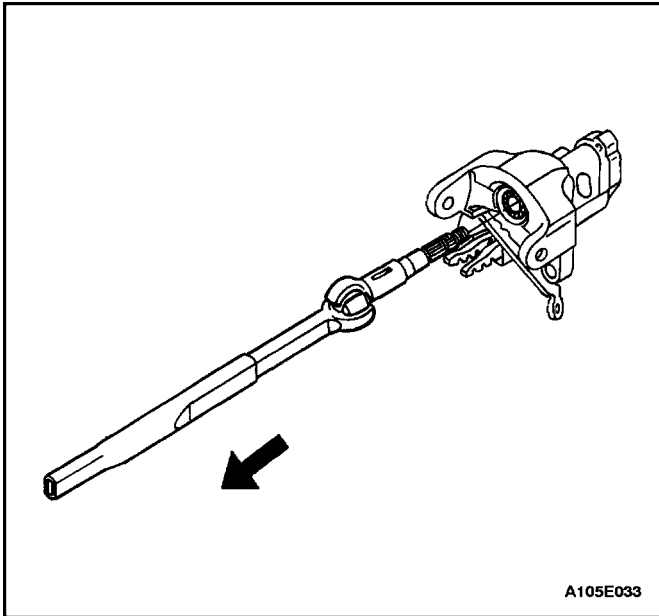
Important : After drilling and removing the threaded end of the shear bolts, all the metal shavings must be cleaned from all the parts.



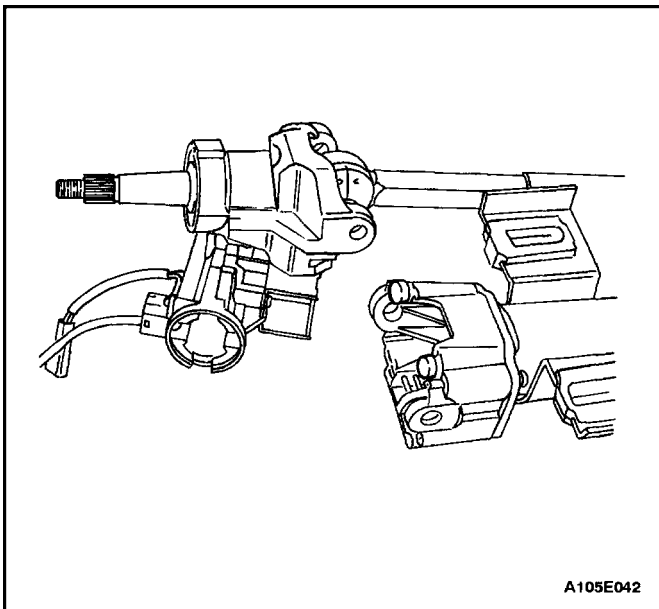
16. Remove the lock cylinder from the ignition switch housing by pushing the lock cylinder release tab.



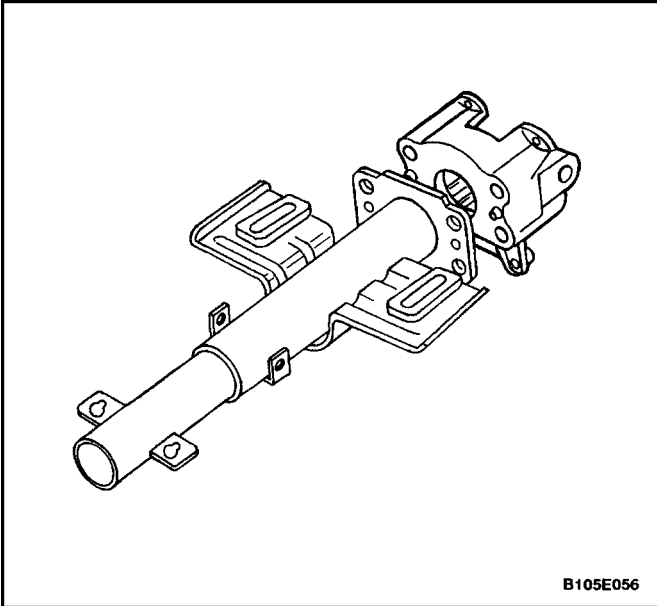
17. Remove the ignition switch retaining screw and remove the ignition switch assembly.



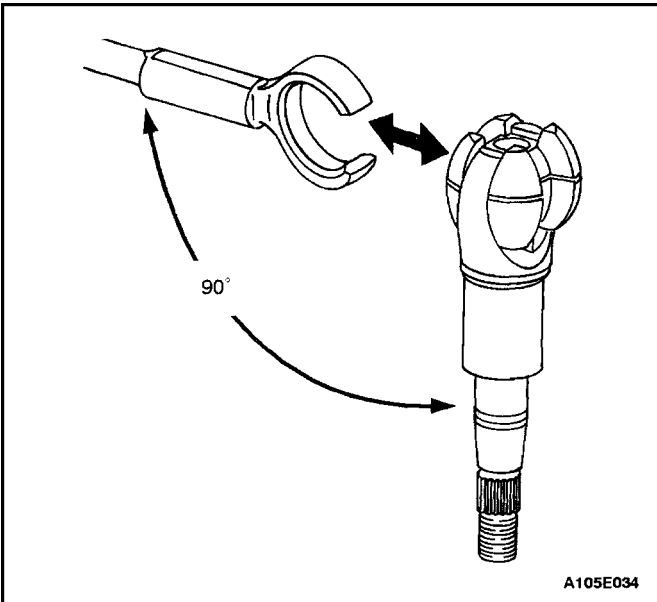
18. Remove the steering shaft assembly from the housing support.



19. Remove the tilt bumpers with a pair of pliers.



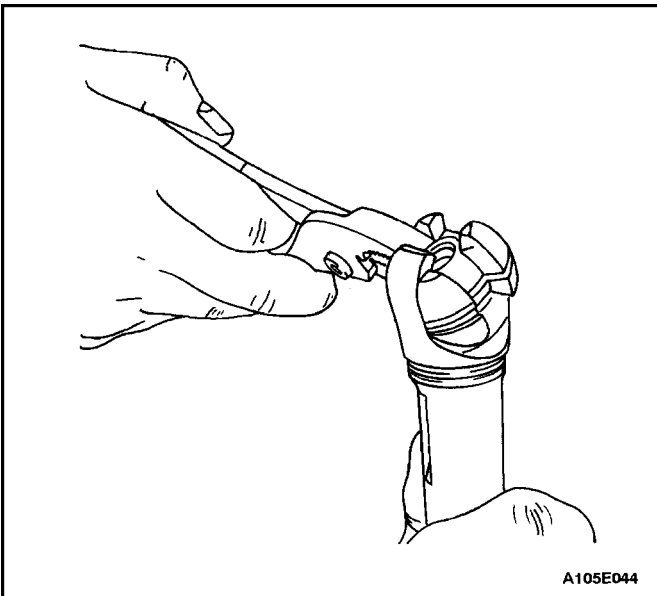
20. Remove the support screws and remove the support housing from the jacket assembly.

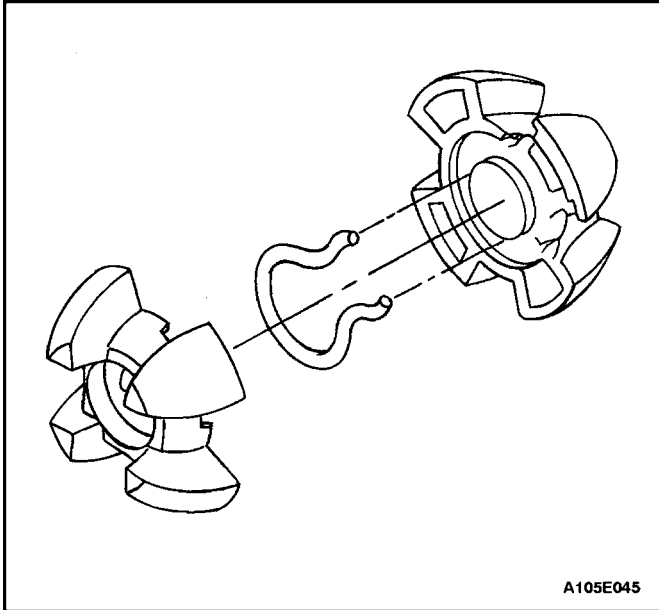


Disassembly Procedure for the Steering Shaft Assembly

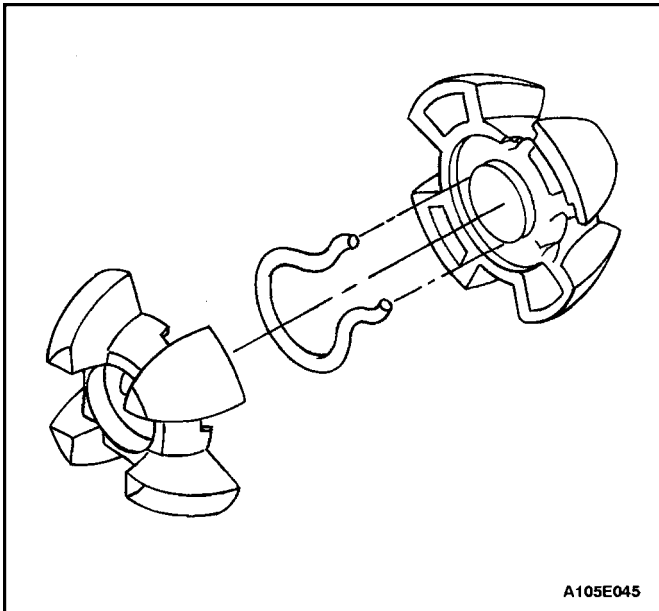
Important : Prior to separating the upper shaft from the lower shaft, note the relationship of the upper shaft, with the lock bolt slot at the 12 o'clock position, to the lower shaft pinch bolt groove at the 7 o'clock position. Refer to this orientation for proper assembly.

1. Position the upper shaft 90 degrees to the lower shaft and separate the two parts.
2. Rotate the centering sphere 90 degrees and remove it from the upper shaft.



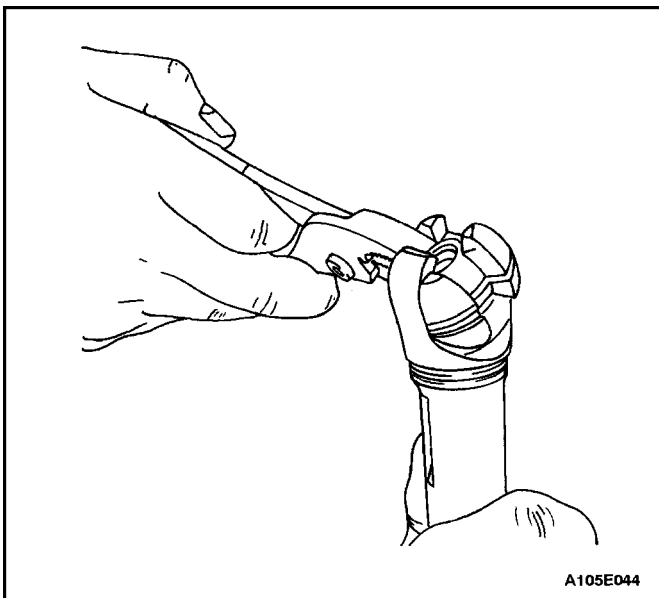


3. Separate the sphere halves and remove the joint preload spring.

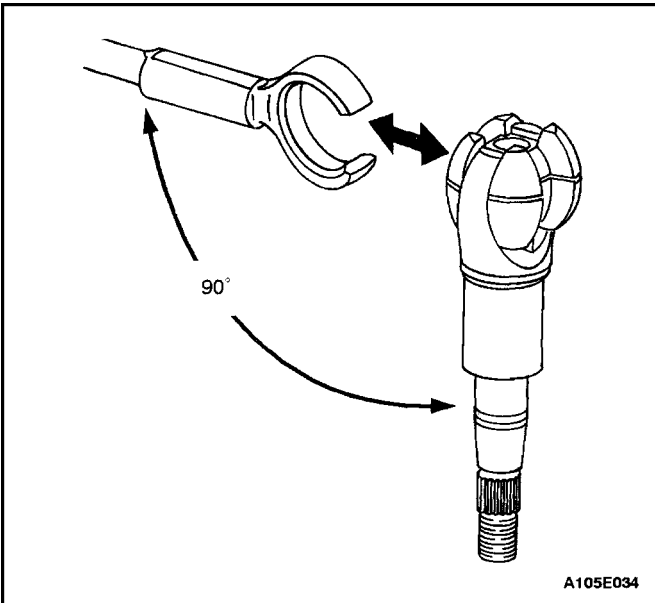


Assembly Procedure for the Steering Shaft Assembly

1. Lubricate the centering sphere halves and the joint preload spring with lithium grease.
2. Place the joint preload spring between the sphere halves with the ends of the spring in the notches.



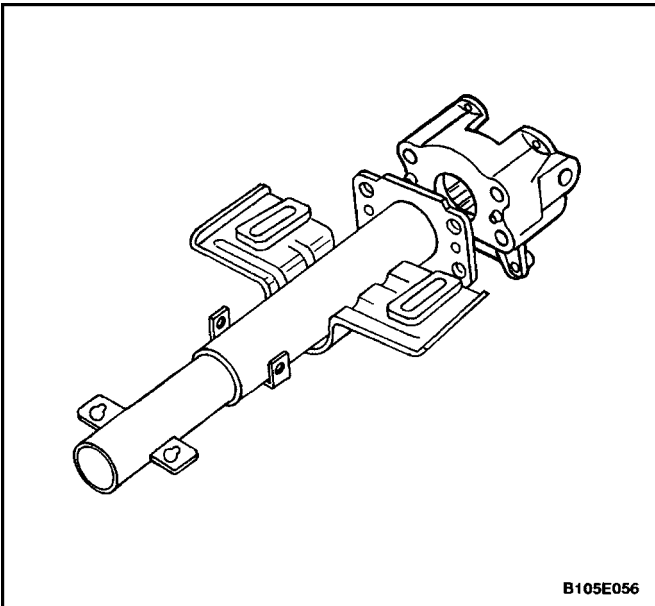
3. Lubricate the sphere end of the upper shaft with lithium grease.
4. Place the sphere into the upper shaft and rotate the sphere 90 degrees.



5. Lubricate the sphere end of the lower shaft with lithium grease.

Important : To insure proper operation, the upper shaft and the lower shaft must be aligned correctly when they are connected.

6. Place the lock bolt slot on the upper shaft at the 12 o'clock position.
7. Place the pinch bolt groove near the end of the lower shaft at the 7 o'clock position.
8. Connect the upper shaft to the lower shaft.



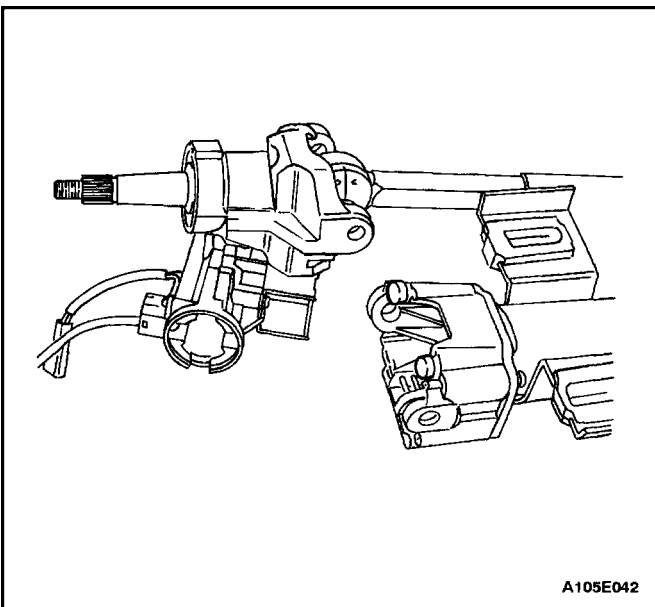
Assembly Procedure

Important : All fasteners in the following steps must be seated firmly before being tightened to specifications.

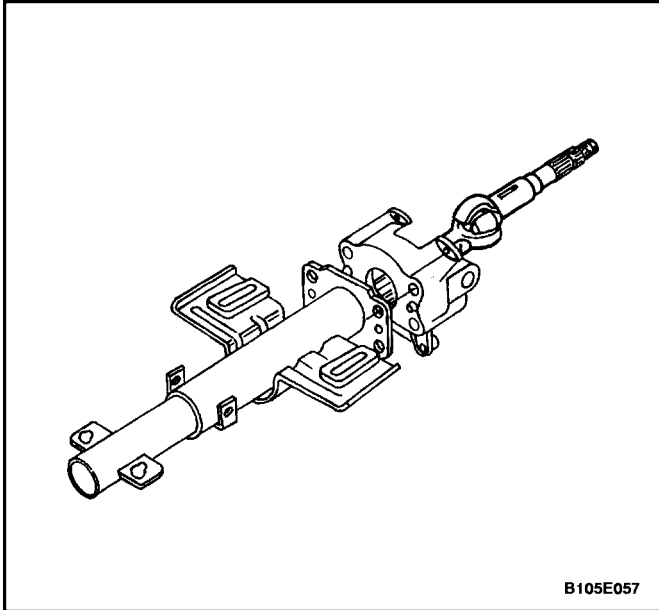
1. Connect the support housing to the jacket assembly with the support screws.

Tighten

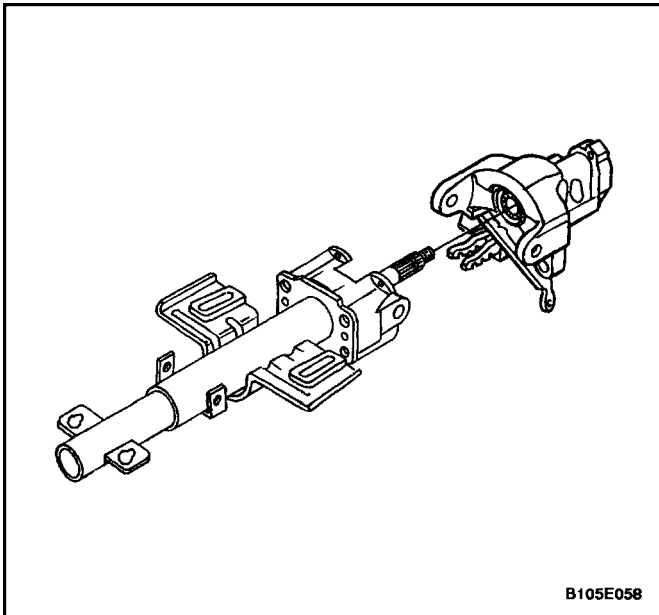
Tighten the support housing screws to 16 N•m (12 lbft).



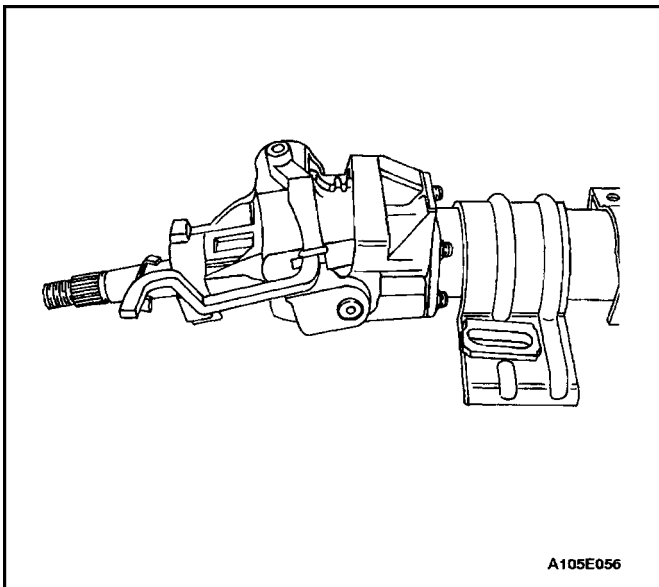
2. Connect the tilt bumpers to the support housing and snap them in place.



3. Slide the steering shaft assembly into the support housing.

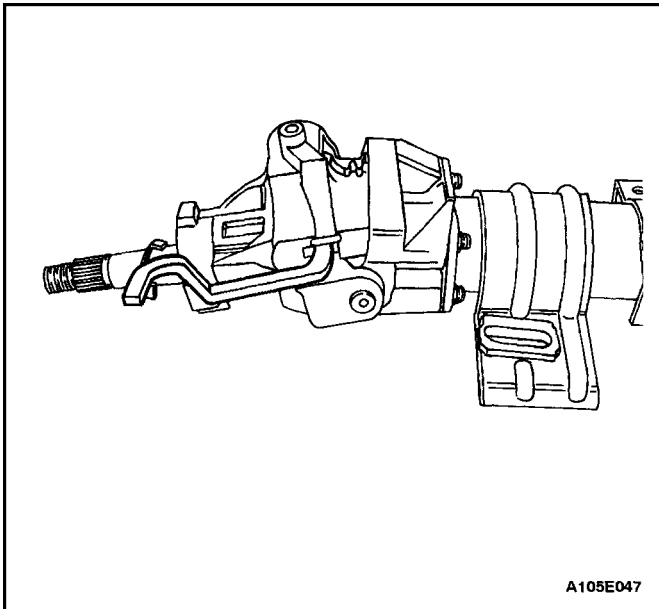


4. Lubricate both bearings in the column housing with lithium grease. Slide the column housing onto the shaft assembly and the housing support.

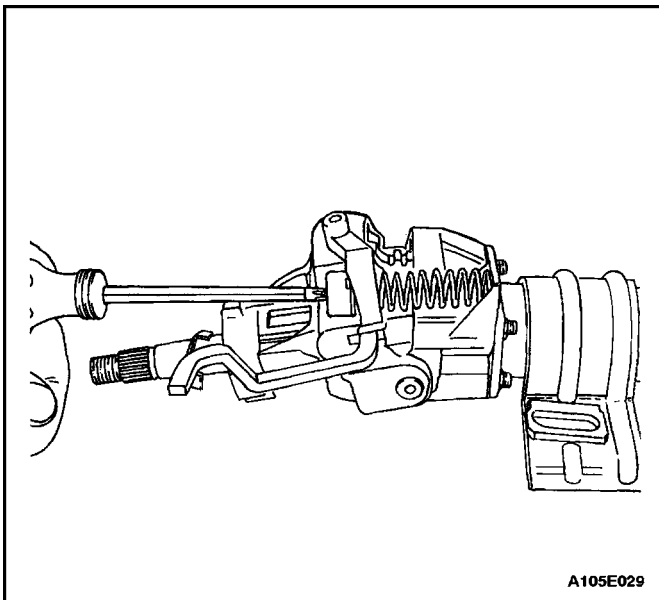


5. Lubricate the pivot pins with lithium grease and slide the pins into the housing until the pins are bottomed. Tap the pivot pins in place.

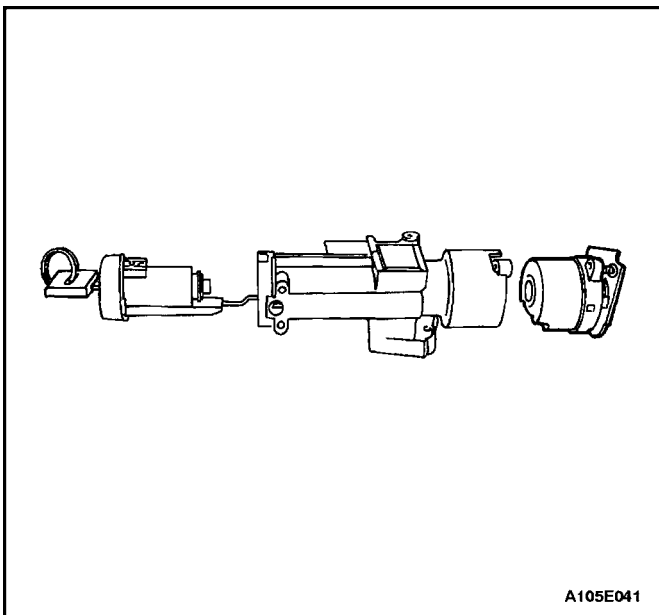
Important : The pivot pins must be staked to the column housing after installation. Stake each pin at three equally-spaced locations.



6. Pull the tilt lever on the column housing and tilt the column all the way up.



7. Lubricate the tilt spring with lithium grease.
8. Install the tilt spring and the spring retainer. Be sure the spring engages the locating tab on the support housing. Insert a Phillips screwdriver into the square opening in the spring retainer, push down, and turn right to lock it in place.

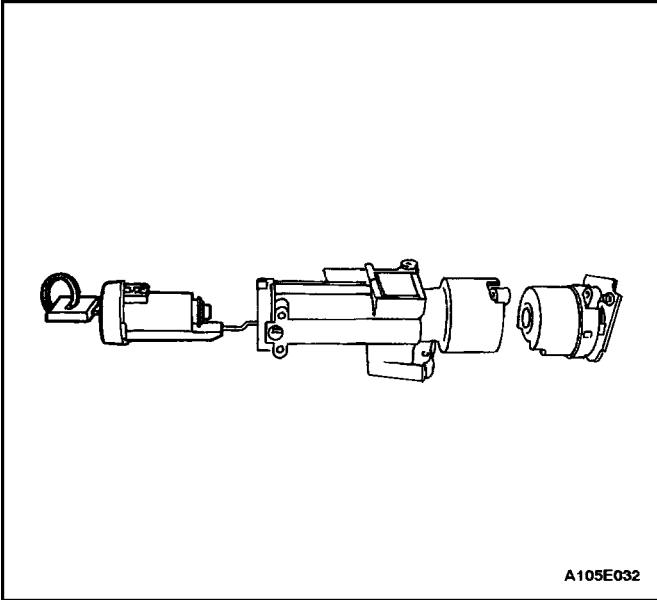


9. Install the ignition switch with the ignition switch retaining screw.

Tighten

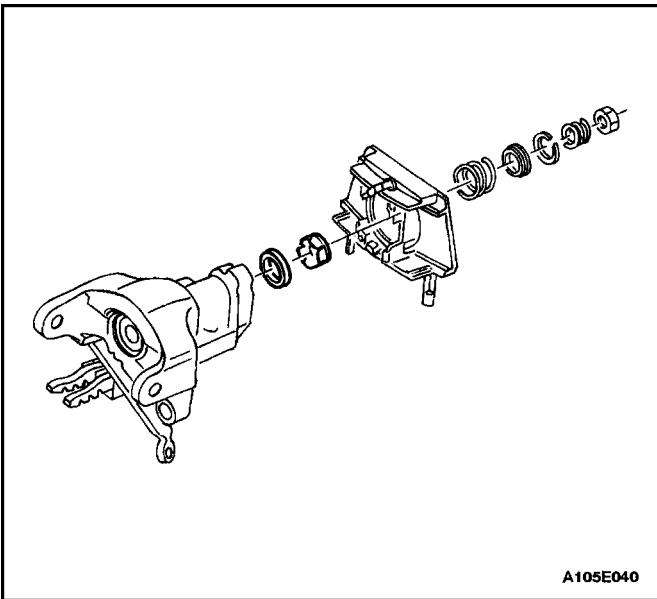
Tighten the ignition switch retaining screw to 2.5 N•m (22 lb-in).

10. Connect the wiring. Refer to "Ignition Lock Cylinder and Switch" in this section.



Important : To ensure that the tab on the lock-cylinder shaft and the slotted opening on the ignition switch are in alignment, the lock cylinder must be in the ACC position prior to installation.

11. Install the lock cylinder into the ignition switch housing.

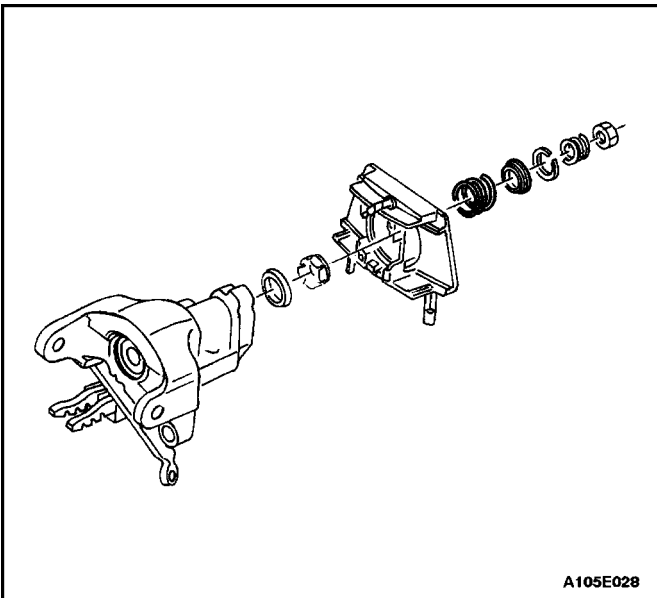


12. Attach the ignition switch housing to the column housing with the shear bolt washers and the shear bolts.

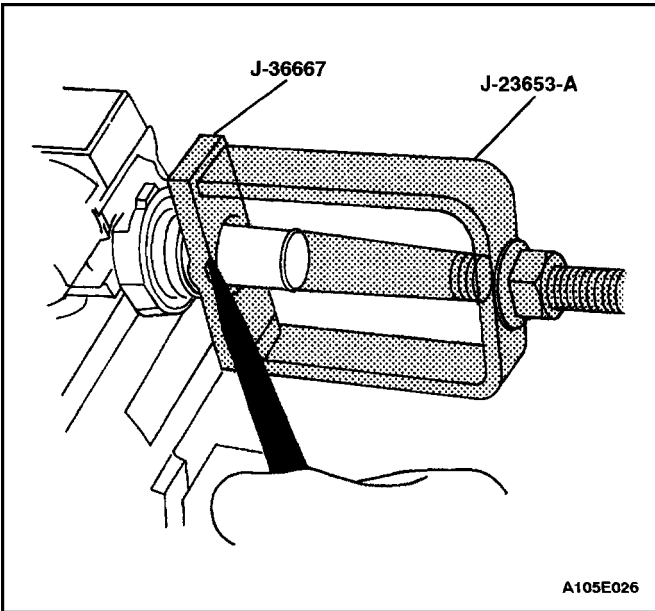
Tighten

Tighten the ignition switch housing shear bolts until the bolt heads separate from the body, approximately 11 N•m (97 lb-in).

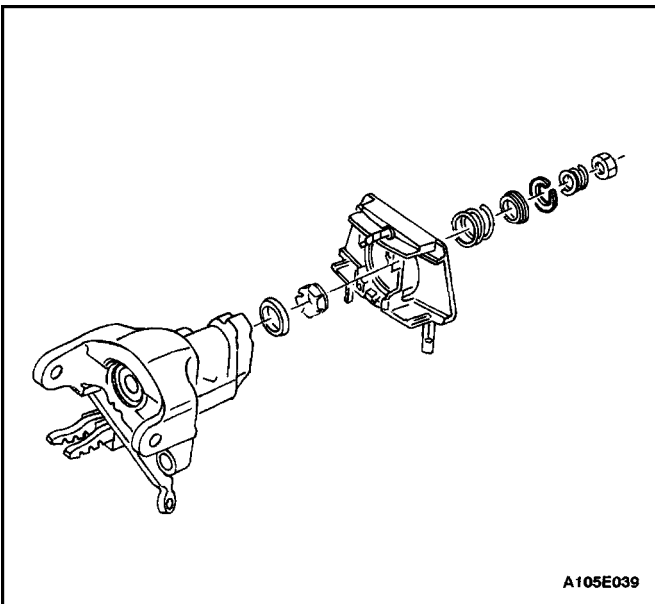
13. Place the lock cylinder in the LOCK position and remove the key.
14. Rotate the steering shaft assembly until the lock bolt engages and locks the steering shaft in position.
15. Install the inner race and the inner race seat.



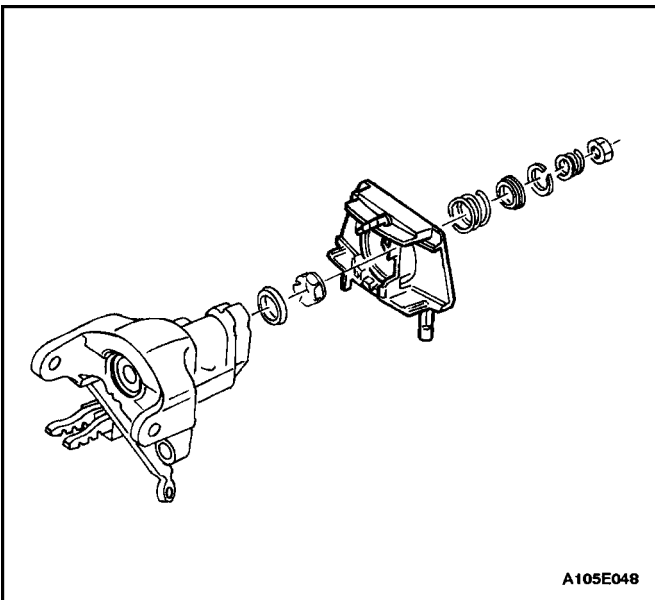
16. Install the upper bearing spring and the spring retainer.



17. Compress the upper bearing spring and the spring retainer with the tilt lock plate adapter J-36667 and the lock plate compressor J-23653-A.



18. Place the retaining ring into the groove on the upper shaft.



19. Connect the turn signal switch housing to the steering column housing with the turn signal switch housing screws.

Tighten

Tighten the turn signal switch housing screws to 3 N•m (27 lb-in).

20. Install the steering column into the vehicle. Refer to "Steering Column" in this section.
21. Install the cancelling cam spring and the steering wheel onto the steering column. Refer to "Steering Wheel" in this section.

GENERAL DESCRIPTION AND SYSTEM OPERATION

STEERING WHEEL AND COLUMN

CAUTION : *To ensure the energy-absorbing action of the steering column, it is important to use only the specified screws, bolts, and nuts, tightened to the specified torque.*

In addition to the steering function, the steering column provides safety and security.

The energy-absorbing column is designed to compress in a front-end collision to lessen the chance of driver injury.

The ignition switch and the lock are mounted on the column, allowing the ignition and steering operations to be locked to inhibit theft of the car.

The column levers trigger the turn signals, the headlight beams, and the windshield washer and wipers.

A tilt steering column uses a spherical joint to allow the steering wheel to tilt up and down. This enables the driver to adjust the steering wheel to a comfortable position.

Notice : Apply a thin coat of lithium grease to all friction points when reassembling.

The column may be disassembled and reassembled easily.

IGNITION SWITCH KEYHOLE LAMP

For description and lamp replacement information, refer to *Section 9B, Lighting Systems*.

IGNITION KEY REMINDER

The ignition key reminder alerts the driver that the key is still in the ignition when the driver attempts to exit the vehicle.

An internal switch in the ignition lock cylinder supplies battery voltage to the reminder chime module when all of the following conditions are true:

- The key is in the ignition switch.
- The ignition is OFF.
- The driver's door is open.

For information on removal and installation of the reminder chime module, refer to *Section 9E, Instrumentation/Driver Information*.