

2008 Ford Mustang

2008 STEERING Steering Column - Mustang

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Steering Column - Mustang

SPECIFICATIONS

TORQUE SPECIFICATIONS

Description	Nm	lb-ft	lb-in
Dash boot bearing nuts	9	-	80
Lower steering column shaft-to-steering column coupling bolt	47	35	-
Lower steering column shaft-to-upper steering column shaft bolt	25	18	-
Steering column coupling-to-steering gear bolt	25	18	-
Steering column nuts	18	-	159
Steering column opening cover reinforcement bolts	9	-	80
Steering column shaft-to-steering column bolt	25	18	-
Steering wheel bolt	55	41	-

DESCRIPTION AND OPERATION

STEERING COLUMN

The steering column consists of the following:

- Steering wheel
- Steering column
- Upper and lower steering column shafts
- Steering column switches
- Ignition lock cylinder

The steering column is the mechanical linkage between the steering wheel and the steering gear. The steering wheel is mounted to a shaft which passes through the center of the steering column. The shaft is centered by bearings within the steering column. The steering column shaft then connects the steering column to the steering gear. The upper and lower steering column shaft connections utilize U-joint type couplings. The tilt function of the steering column is controlled by a mechanical lever on the underside of the steering column which uses a cam to lock and unlock the steering column. When the tilt lever is unlocked, the steering column can then be adjusted to various positions. The steering column switches (multifunction and ignition) are mounted to the steering column. These switches are covered by the upper and lower steering column shrouds.

For steering column switch service information, refer to **STEERING COLUMN SWITCHES** article.

For ignition lock cylinder service information, refer to **HANDLES, LOCKS, LATCHES & ENTRY SYSTEMS** article.

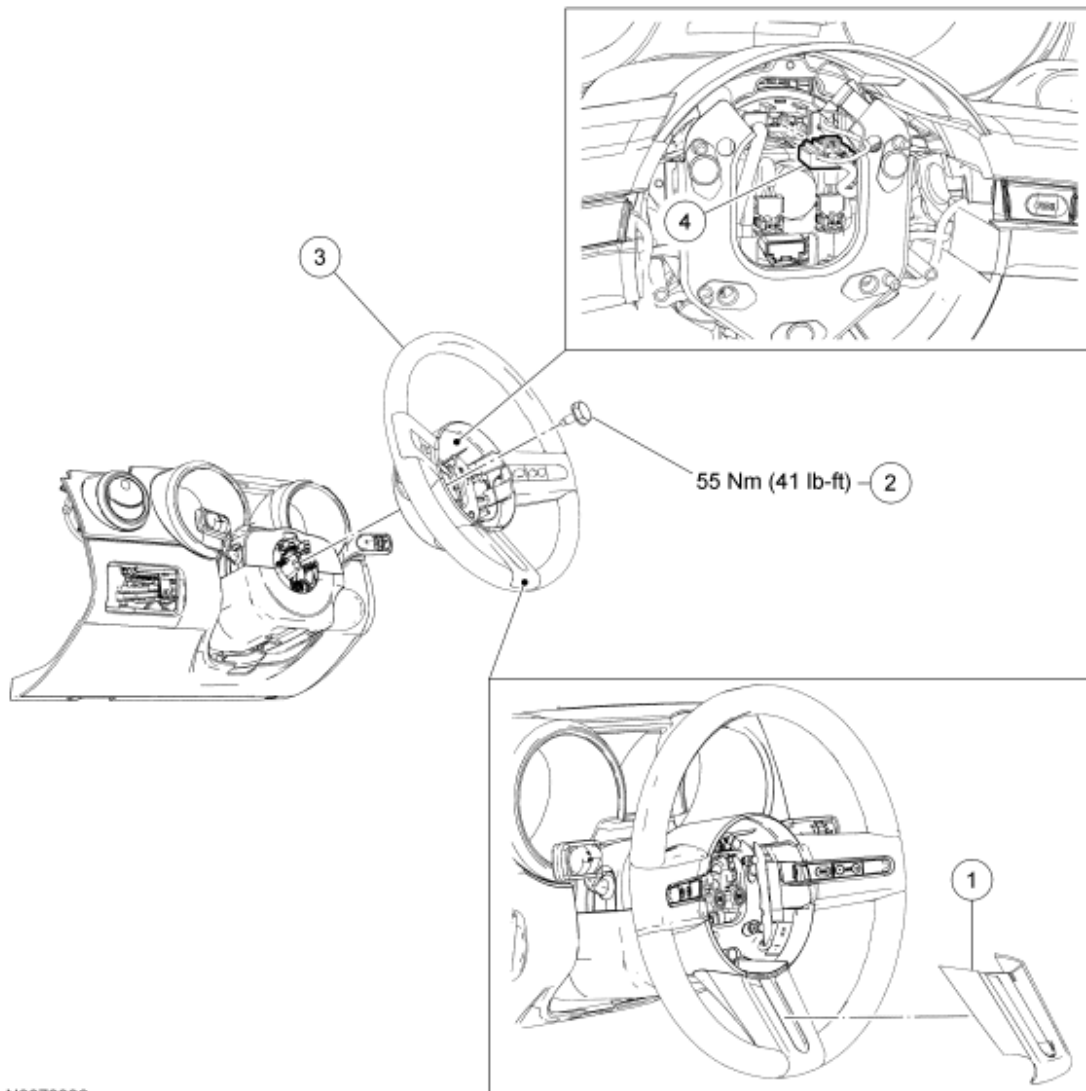
DIAGNOSTIC TESTS

STEERING COLUMN

Refer to [STEERING SYSTEM - GENERAL INFORMATION](#) article.

REMOVAL AND INSTALLATION

STEERING WHEEL



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Fig. 1: Exploded View Of Steering Wheel With Torque Specifications

Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	3F830	Steering wheel spoke finish panel (3 required)

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2	043B13	Steering wheel bolt
3	3600	Steering wheel
4	-	Steering wheel switches/horn electrical connector (part of 3600)

REMOVAL AND INSTALLATION

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

NOTE: Do not use a screwdriver or prying device to remove the steering wheel spoke finish panel(s) or damage to the steering wheel may occur. Place fingers near the base of the wheel spoke and gently pull upward to remove the finish panel(s).

NOTE: The steering wheel spoke finish panel(s) can be serviced separately. A new steering wheel does not need to be installed.

NOTE: It is not necessary to remove the steering wheel when installing new steering wheel spoke finish panel(s).

3. If necessary, remove the steering wheel spoke finish panel(s).

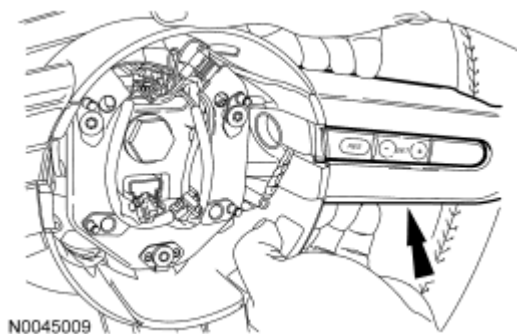
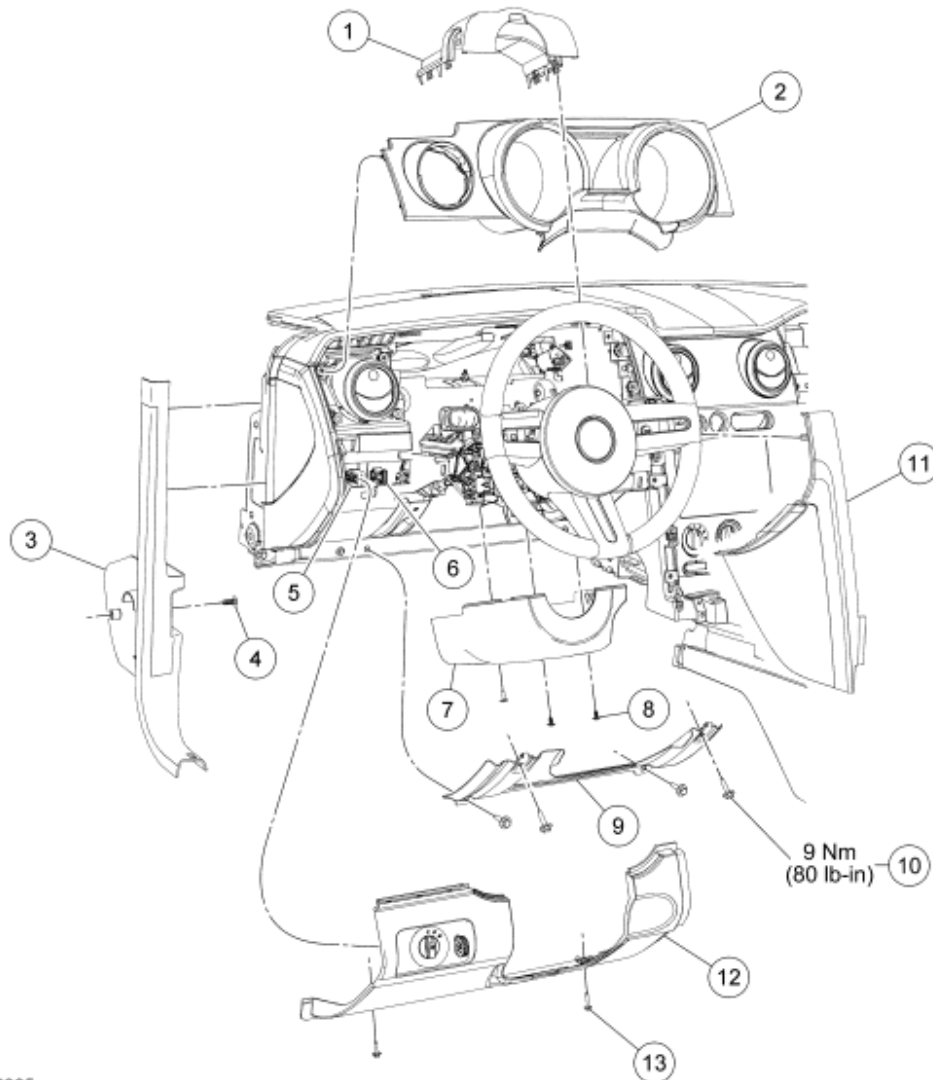


Fig. 2: Removing Steering Wheel Spoke Finish Panel
Courtesy of FORD MOTOR CO.

4. Remove and discard the steering wheel bolt.
 - To install, tighten the new bolt to 55 Nm (41 lb-ft).
5. Disconnect the steering wheel switches/horn electrical connector from the clockspring.
6. Remove the steering wheel.
 - Route the connectors for the clockspring through the steering wheel.
7. To install, reverse the removal procedure.

STEERING COLUMN



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Fig. 3: Exploded View Of Steering Column Components With Torque Specifications (1 Of 2)
 Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	3530A	Upper steering column shroud
2	044D70	Instrument cluster finish panel
3	A30A64	LH A-pillar lower trim panel
4	W505156	LH A-pillar lower trim panel screw
5	-	Headlamp switch electrical connector (part of 14401)
6	-	Courtesy lamp switch electrical connector (part of 14401)

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7	3530B	Lower steering column shroud
8	W707281	Lower steering column shroud screw (2 required)
9	04502	Steering column opening cover reinforcement
10	W505424	Steering column opening cover reinforcement screw (4 required)
11	04608	Left center stack wing
12	04459	Steering column opening cover
13	W505156	Steering column opening cover screw (2 required)

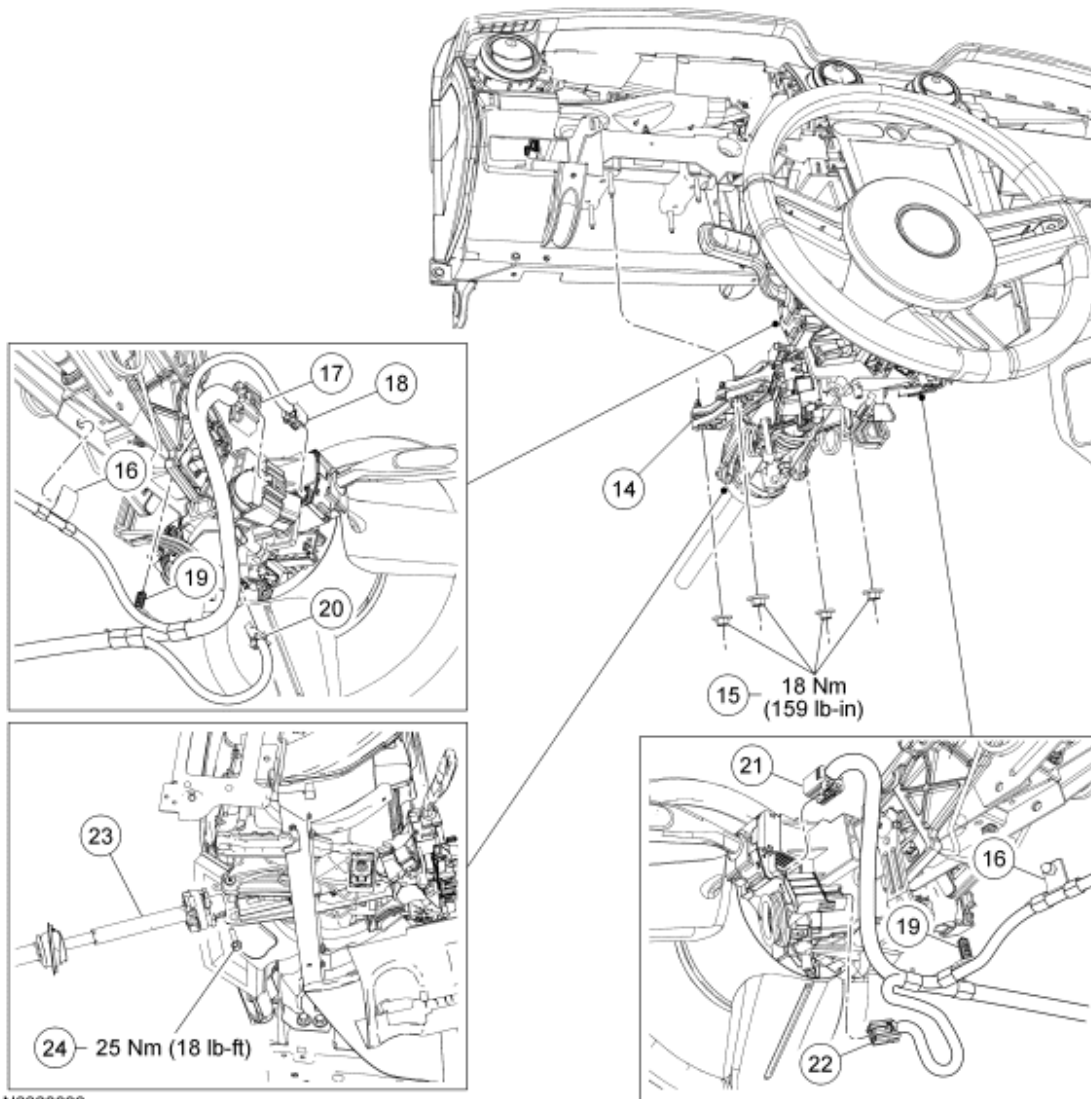


Fig. 4: Exploded View Of Steering Column Components With Torque Specifications (1 Of 2)
Courtesy of FORD MOTOR CO.

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Item	Part Number	Description
14	3C529	Steering column
15	W705047	Steering column nuts (4 required)
16	-	Electrical harness retainer (part of 14401)
17	-	Ignition switch electrical connector (part of 14401)
18	-	Multifunction switch electrical connector (turn signal/hazard flasher) (part of 14401)
19	-	Electrical harness retainer (part of 14401)
20	-	Clockspring electrical connector (part of 14401)
21	-	Multifunction switch electrical connector (windshield wiper/washer) (part of 14401)
22	-	Passive Anti-Theft System (PATS) electrical connector (part of 14401)
23	3E751	Steering column shaft
24	W704980	Steering column shaft-to-steering column bolt

REMOVAL AND INSTALLATION

1. Depower the Supplemental Restraint System (SRS). For additional information, refer to **SUPPLEMENTAL RESTRAINT SYSTEM** article.
2. Place the steering wheel in the straight-ahead position and remove the ignition key.

NOTE: **The instrument cluster finish panel is held in place with retaining clips that are attached to the bezel.**

3. Remove the instrument cluster finish panel.
4. Remove the floor console finish panel. For additional information, refer to **INSTRUMENT PANEL & CONSOLE** article.
5. Remove the LH A-pillar lower trim panel.
6. Remove the left center stack wing.
7. Remove the 2 screws and the steering column opening cover.
 - Disconnect the headlamp and courtesy light switch electrical connectors.
8. Remove the 4 bolts and the steering column opening cover reinforcement.
 - To install, tighten to 9 Nm (80 lb-in).
9. Remove the upper steering column shroud by carefully pressing the sides inward.
10. Remove the 3 screws and the lower steering column shroud.
11. Disconnect the electrical harness pin-type retainers.

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12. Disconnect the following electrical connectors:

- Ignition switch
- Multifunction switch (turn signal/hazard flasher)
- Clockspring
- Multifunction switch (windshield wiper/washer)
- PATS

NOTE: Do not allow the steering column to rotate while the steering column shaft is disconnected or damage to the clockspring may result. If there is evidence that the steering column shaft has rotated the clockspring must be removed and recentered. For additional information, refer to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

13. Remove and discard the steering column shaft-to-steering column bolt and disconnect the shaft from the steering column.

- To install, tighten the new bolt to 25 Nm (18 lb-ft).

14. Remove the 4 nuts and the steering column.

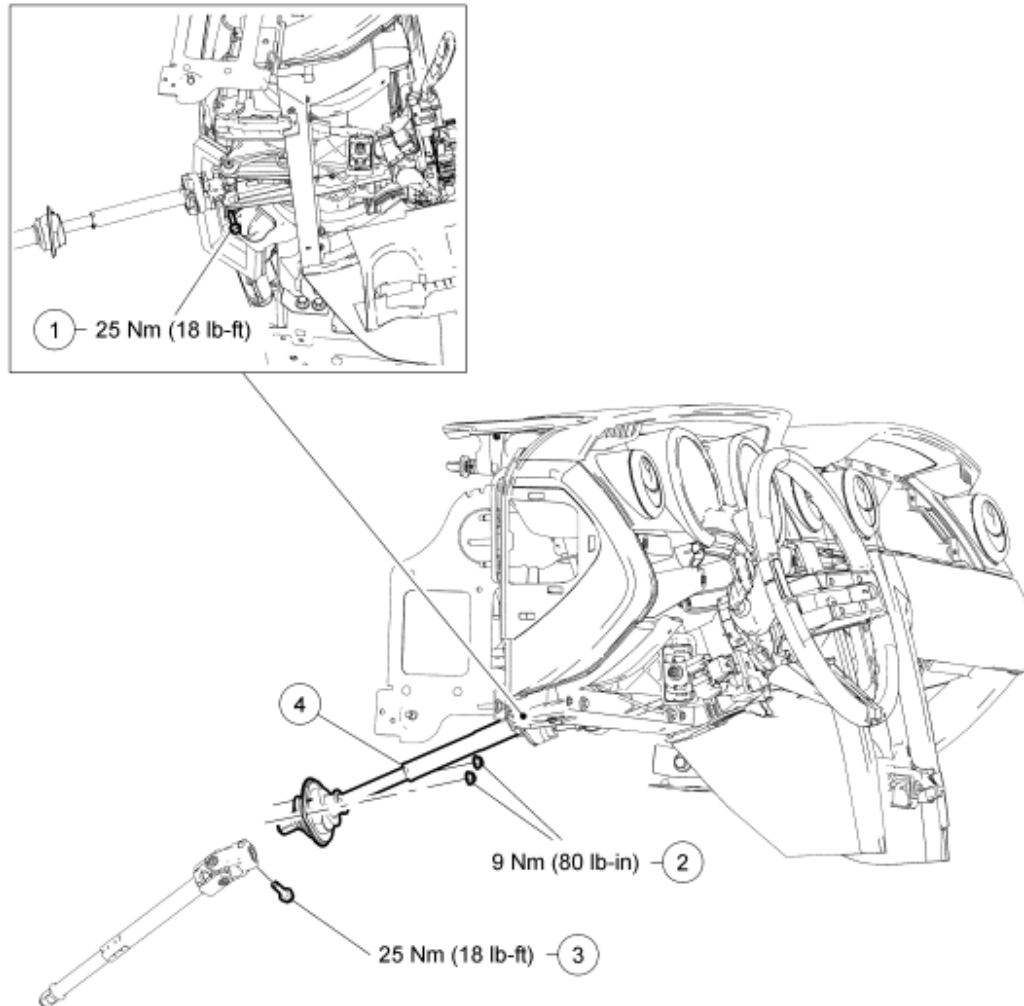
- To install, tighten to 18 Nm (159 lb-in).

15. To install, reverse the removal procedure.

STEERING COLUMN SHAFT - UPPER

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N0046351

Fig. 5: Identifying Upper Steering Column Shaft With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	W704980	Steering column shaft-to-steering column bolt
2	W707137	Dash boot bearing nuts (2 required)
3	W704980	Lower steering column shaft-to-upper steering column shaft bolt
4	3E751	Upper steering column shaft

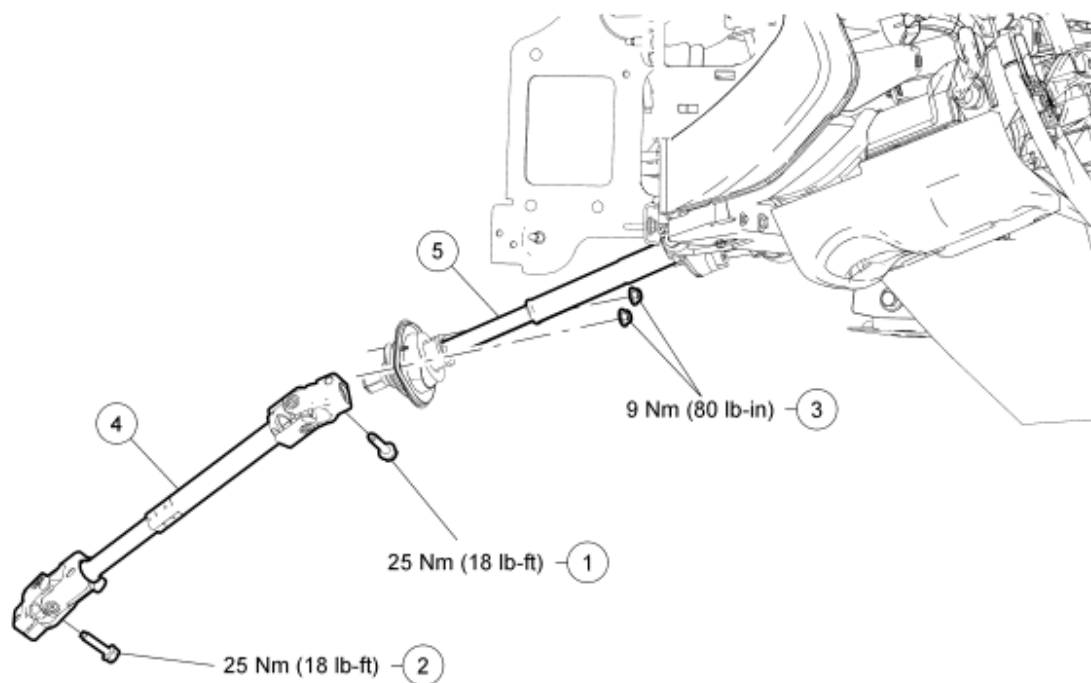
REMOVAL AND INSTALLATION

NOTE: Do not allow the steering column to rotate while the steering column shaft is

disconnected or damage to the clockspring may result. If there is evidence that the steering column shaft has rotated the clockspring must be removed and recentered. For additional information, refer to SUPPLEMENTAL RESTRAINT SYSTEM article.

1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to JACKING & LIFTING article.
2. Place the steering wheel in the straight-ahead position and turn the ignition switch to the OFF position.
3. Remove and discard the lower steering column shaft-to-upper steering column shaft bolt.
 - To install, tighten the new bolt to 25 Nm (18 lb-ft).
4. Remove the 2 dash boot bearing nuts.
 - To install, tighten to 9 Nm (80 lb-in).
5. Remove and discard the steering column shaft-to-steering column bolt.
 - To install, tighten the new bolt to 25 Nm (18 lb-ft).
6. Collapse the steering column shaft slightly and remove the upper steering column shaft.
7. To install, reverse the removal procedure.

STEERING COLUMN SHAFT - LOWER



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Fig. 6: Identifying Lower Steering Column Shaft With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description

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1	W704980	Lower steering column shaft-to-upper steering column shaft bolt
2	W704980	Steering column coupling-to-steering gear bolt
3	W707137	Dash boot bearing nuts (2 required)
4	3C662	Lower steering column shaft
5	3E751	Upper steering column shaft

REMOVAL AND INSTALLATION

NOTE: Do not allow the steering column to rotate while the steering column shaft is disconnected or damage to the clockspring may result. If there is evidence that the steering column shaft has rotated the clockspring must be removed and recentered. For additional information, refer to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to **JACKING & LIFTING** article.
2. Remove and discard the lower steering column shaft-to-upper steering column shaft bolt.
 - To install, tighten the new bolt to 25 Nm (18 lb-ft).
3. Remove and discard the steering column coupling-to-steering gear bolt.
 - To install, tighten the new bolt to 25 Nm (18 lb-ft).
4. Remove the 2 dash boot bearing nuts.
 - To install, tighten to 9 Nm (80 lb-in).
5. Collapse the upper steering column shaft slightly and disconnect it from the lower steering column shaft.
6. Remove the lower steering column shaft.
7. To install, reverse the removal procedure.

STEERING COLUMN COUPLING

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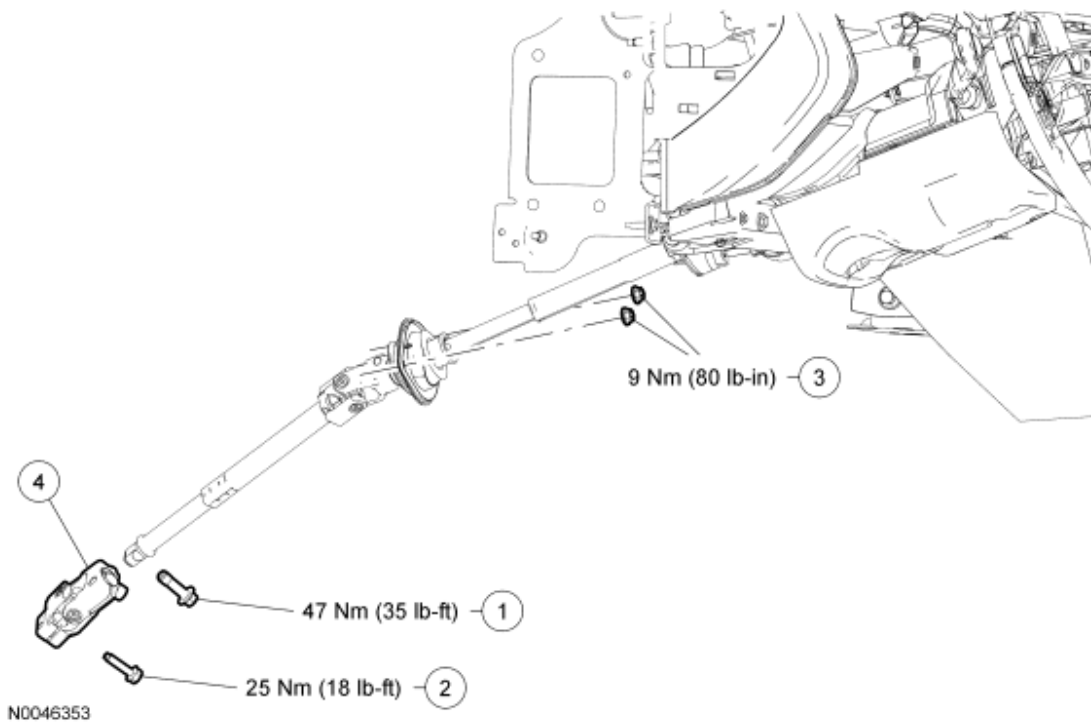


Fig. 7: Identifying Steering Column Coupling With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	W702600	Lower steering column shaft-to-steering column coupling bolt
2	W704980	Steering column coupling-to-steering gear bolt
3	W707137	Dash boot bearing nuts (2 required)
4	3N725	Steering column coupling

REMOVAL AND INSTALLATION

NOTE: Do not allow the steering column to rotate while the steering column shaft is disconnected or damage to the clockspring may result. If there is evidence that the steering column shaft has rotated the clockspring must be removed and recentered. For additional information, refer to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to **JACKING & LIFTING** article.
2. Place the steering wheel in the straight-ahead position and turn the ignition switch to the OFF position.
3. Remove and discard the lower steering column shaft-to-steering column coupling bolt.
 - To install, tighten the new bolt to 47 Nm (35 lb-ft).

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4. Remove and discard the steering column coupling-to-steering gear bolt.
 - To install, tighten the new bolt to 25 Nm (18 lb-ft).
5. Remove the 2 dash boot bearing nuts.
 - To install, tighten to 9 Nm (80 lb-in).
6. Collapse the upper steering column shaft slightly and disconnect the lower steering column shaft from the steering column coupling.
7. Remove the steering column coupling.
8. To install, reverse the removal procedure.