

2012 - Mazda6 - Steering

STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

WARNING:

- Handling the air bag module improperly can accidentally operate (deploy) the air bag module, which may seriously injure you. Read the service warnings and cautions before handling the air bag module. (See [AIR BAG SYSTEM SERVICE WARNINGS](#).) (See [AIR BAG SYSTEM SERVICE CAUTIONS](#).)
1. Remove the front scuff plate (driver-side). (See [FRONT SCUFF PLATE REMOVAL/ INSTALLATION](#).)
 2. Remove the front side trim (driver-side). (See [FRONT SIDE TRIM REMOVAL/ INSTALLATION](#).)
 3. Remove the upper panel. (See [UPPER PANEL REMOVAL/ INSTALLATION](#).)
 4. Remove the decoration panel (driver-side). (See [DECORATION PANEL REMOVAL/ INSTALLATION](#).)
 5. Remove the hood release lever. (See [HOOD LATCH AND RELEASE LEVER REMOVAL/ INSTALLATION](#).)
 6. Remove the lower panel. (See [LOWER PANEL REMOVAL/ INSTALLATION](#).)
 7. Remove in the order indicated in the table.
 8. Install in the reverse order of removal.
 9. If the steering lock component is replaced, perform programming for the immobilizer system related parts. (See [IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING \[ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM\]](#).)

3	Steering wheel (See Steering Wheel Removal Note.) (See Steering Wheel, Locknut Installation Note.)
4	Column cover (See COLUMN COVER REMOVAL/ INSTALLATION.)
5	Clock spring, combination switch (See CLOCK SPRING REMOVAL/ INSTALLATION.) (See COMBINATION SWITCH REMOVAL/ INSTALLATION.)
6	Steering shaft cover
7	Joint Bolt (See Joint Bolt (Intermediate Shaft) Removal Note.) (See Joint Bolt (Intermediate Shaft) Installation Note.)
8	Steering shaft component (See Steering Shaft Component Removal Note.) (See Steering Shaft Component Installation Note.)
9	Steering lock mounting bolt (See Steering Lock Mounting Bolt, Steering Lock Component Removal Note.) (See Steering Lock Component, Steering Lock Mounting Bolt Installation Note.)
10	Steering lock component (See Steering Lock Mounting Bolt, Steering Lock Component Removal Note.) (See Steering Lock Component, Steering Lock Mounting Bolt Installation Note.)
11	Coil antenna (See COIL ANTENNA REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
12	Coil attachment
13	Steering lock
14	Steering shaft
15	Steering dust cover (See Steering Dust Cover Installation Note.)

Steering Wheel Removal Note

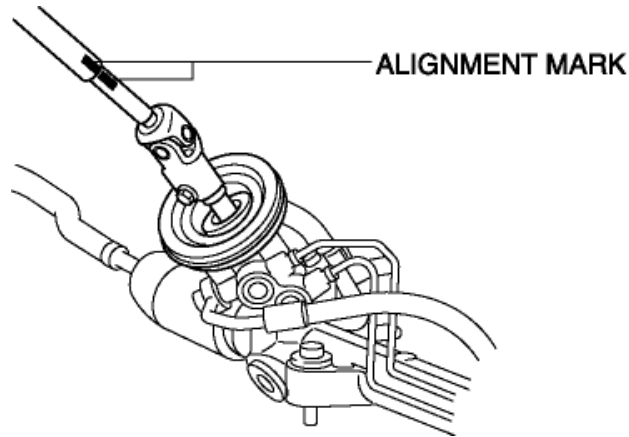
CAUTION:

- Do not try to remove the steering wheel by hitting the shaft with a hammer. The steering shaft will be damaged.

1. Set the wheels in the straight-ahead position.
2. Remove the steering wheel using any commercially available puller.

Joint Bolt (Intermediate Shaft) Removal Note

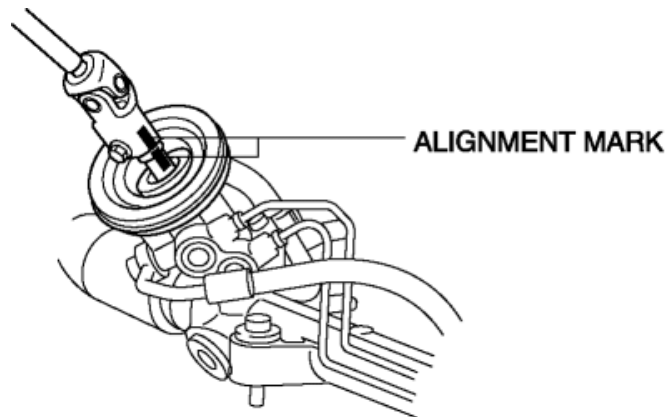
1. Place alignment marks on the intermediate shaft joint as shown in the figure.



NOTE:

- Do not detach the intermediate shaft joint while servicing. If the intermediate shaft joint is mistakenly detached while servicing, align the alignment marks placed during the joint bolt removal and connect the intermediate shaft.

2. Place alignment marks on the intermediate shaft joint, and the steering gear for proper installation.



3. Remove the joint bolt and detach the intermediate shaft from the steering gear.

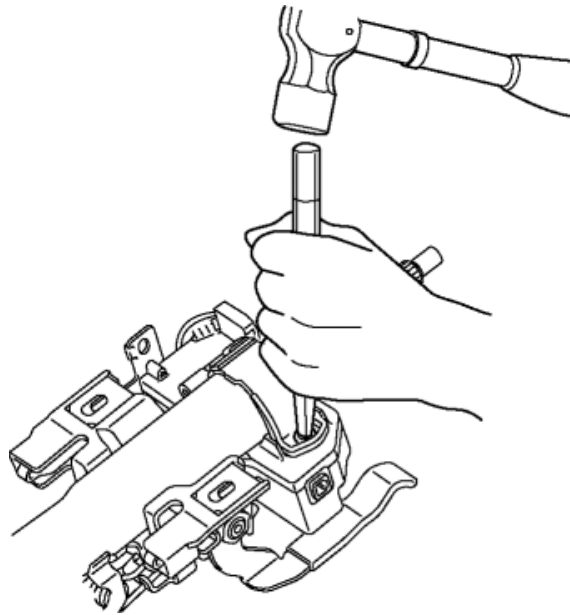
Steering Shaft Component Removal Note

CAUTION:

- Always lock the adjusting lever to prevent damage to the steering shaft. In addition, do not unlock the adjusting lever until after the steering shaft installation is completed.
1. Lock the adjusting lever.
 2. Remove the nut, and then remove the steering shaft component from the dashboard member.

Steering Lock Mounting Bolt, Steering Lock Component Removal Note

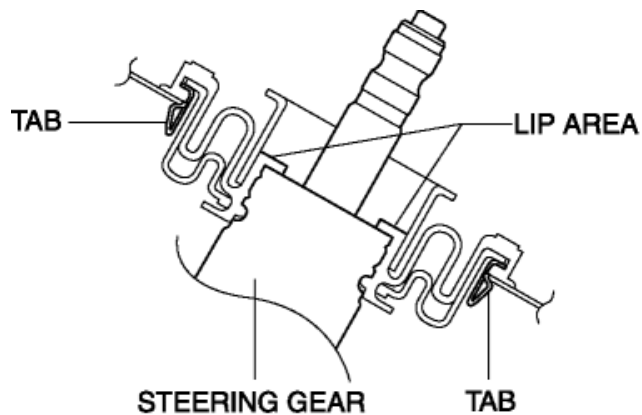
1. Make a groove in the heads of the steering lock mounting bolts using a chisel and hammer.



2. Remove the bolt using a flathead screwdriver, then remove the steering lock component from the steering shaft.

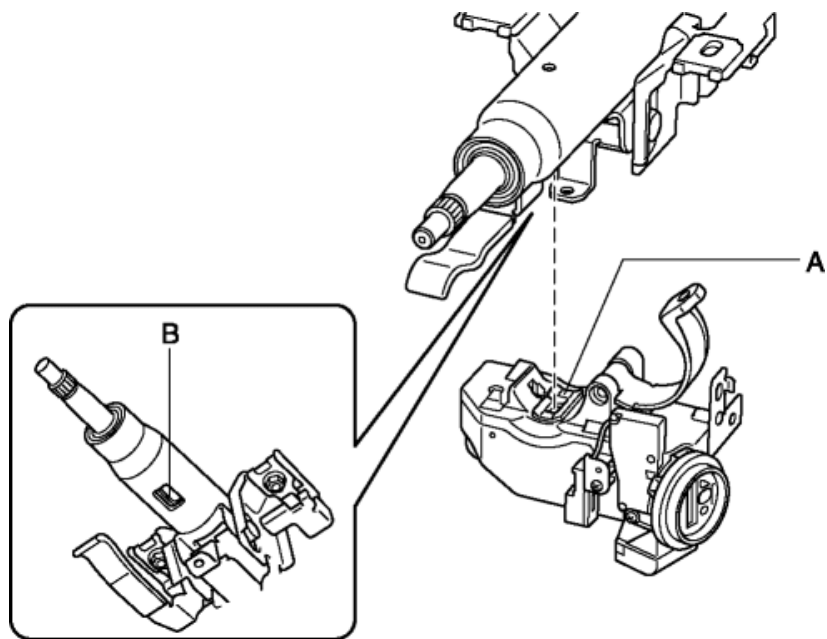
Steering Dust Cover Installation Note

1. Install the steering dust cover to the dashboard lower panel.
2. Verify that the lip area of the steering dust cover is securely installed to the steering gear, and the tabs are installed to the dashboard lower panel.

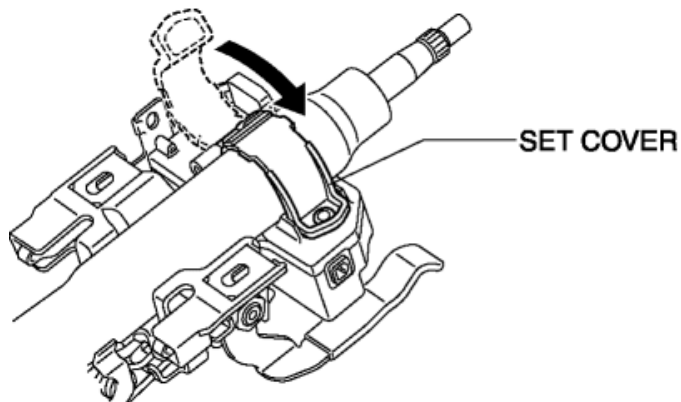


Steering Lock Component, Steering Lock Mounting Bolt Installation Note

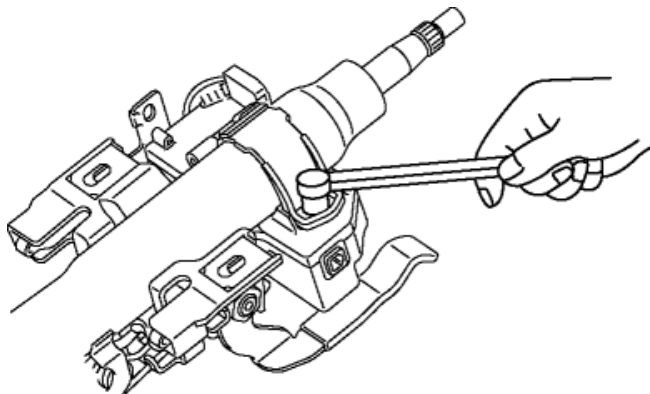
1. Assemble section A of the steering lock component to the section B of the steering shaft.



2. Set the set cover to the steering shaft and then temporarily install the steering lock component to the steering shaft using a new steering lock mounting bolt.



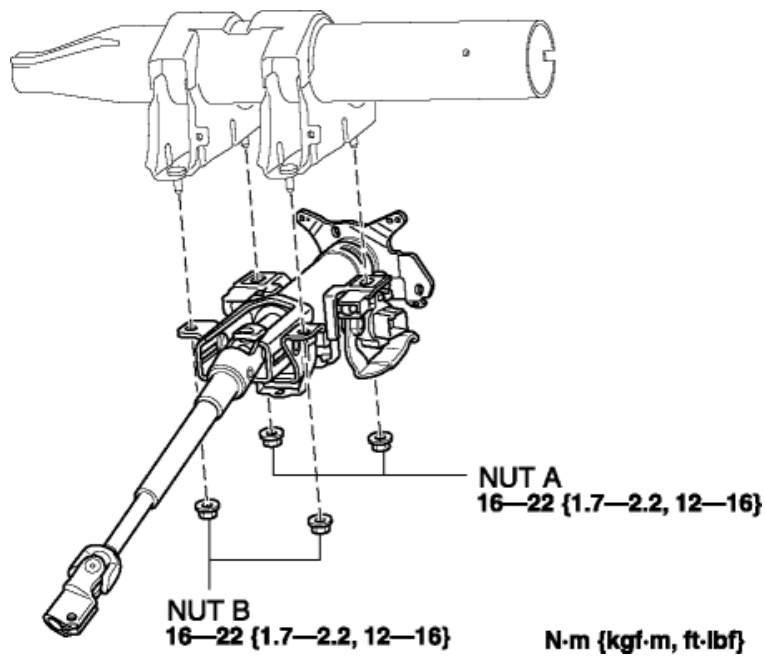
3. Tighten the steering lock mounting bolt until the head breaks off.



Steering Shaft Component Installation Note

CAUTION:

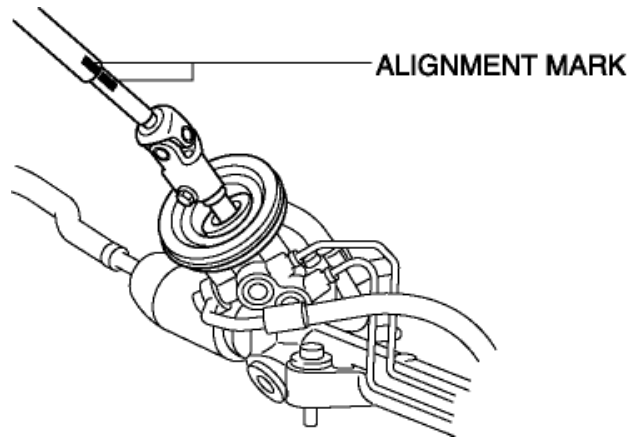
- Do not unlock the adjusting lever until after the steering shaft installation is completed to prevent damage to the steering shaft.
1. Verify that the adjusting lever is in the LOCK position.
 2. Temporarily install the steering shaft component to the dashboard member using nuts A and B.



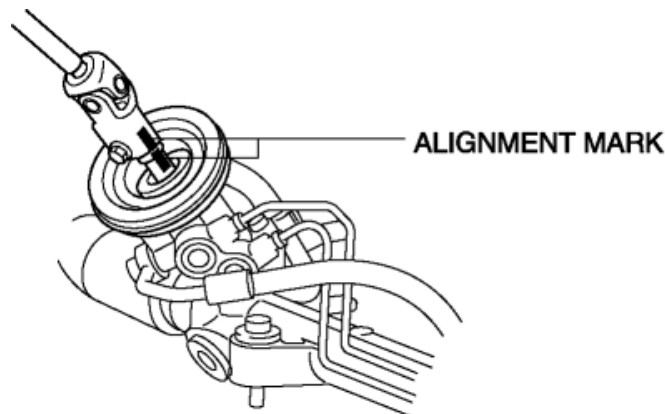
3. Tighten the nuts in the order of nut A and nut B.

Joint Bolt (Intermediate Shaft) Installation Note

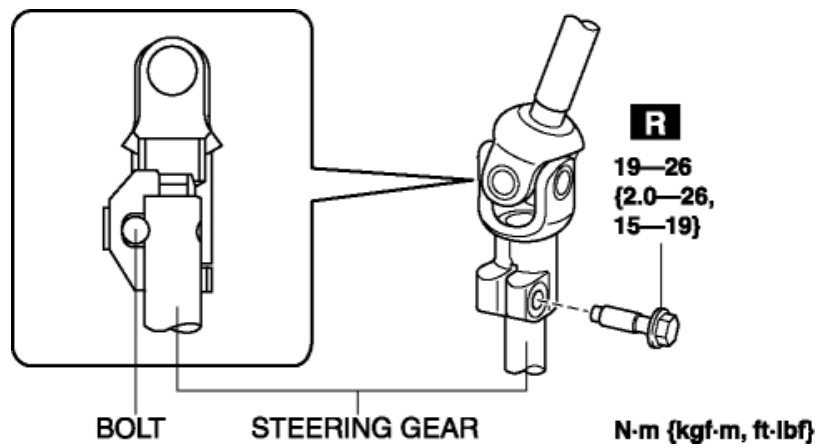
1. If the intermediate shaft joint is mistakenly detached while servicing, align the alignment marks placed during the joint bolt removal and connect the intermediate shaft.



2. Align the marks made during removal and install the steering intermediate shaft joint to the steering gear.



3. After temporarily installing the joint bolt to the intermediate shaft joint, shake the intermediate shaft up and down to verify that the joint bolt is installed to the groove of the steering gear.



4. Tighten the joint bolt to the specified torque.

Steering Wheel, Locknut Installation Note

1. Set the vehicle wheels in the straight-ahead position, and install the steering wheel using a new locknut.

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 7. Remove in the order indicated in the table.
 8. Install in the reverse order of removal.
 9. If the steering lock component is replaced, perform programming for the immobilizer system related parts. (See [IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING \[ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM\]](#).)

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Steering Wheel Removal Note

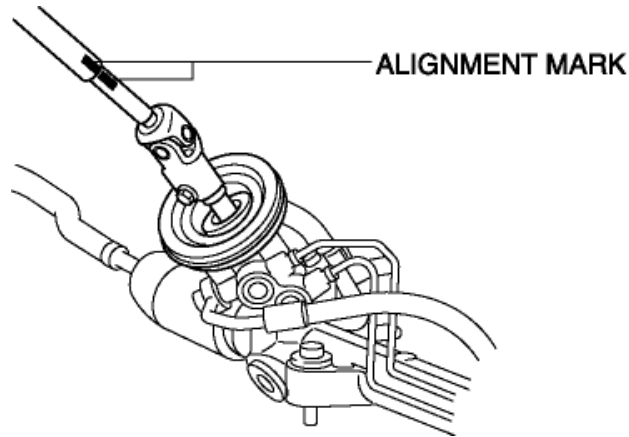
CAUTION:

- Do not try to remove the steering wheel by hitting the shaft with a hammer. The steering shaft will be damaged.

1. Set the wheels in the straight-ahead position.
2. Remove the steering wheel using any commercially available puller.

Joint Bolt (Intermediate Shaft) Removal Note

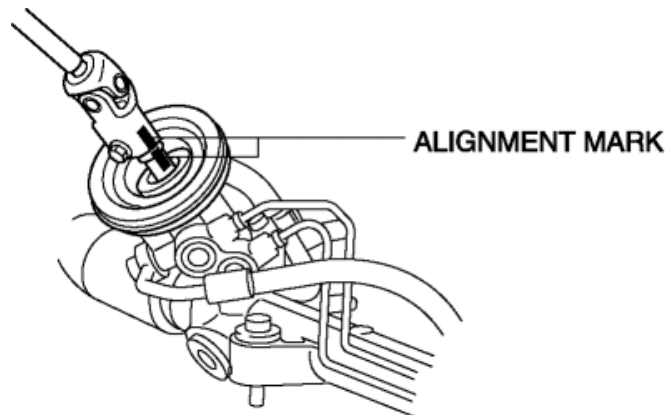
1. Place alignment marks on the intermediate shaft joint as shown in the figure.



NOTE:

- Do not detach the intermediate shaft joint while servicing. If the intermediate shaft joint is mistakenly detached while servicing, align the alignment marks placed during the joint bolt removal and connect the intermediate shaft.

2. Place alignment marks on the intermediate shaft joint, and the steering gear for proper installation.



3. Remove the joint bolt and detach the intermediate shaft from the steering gear.

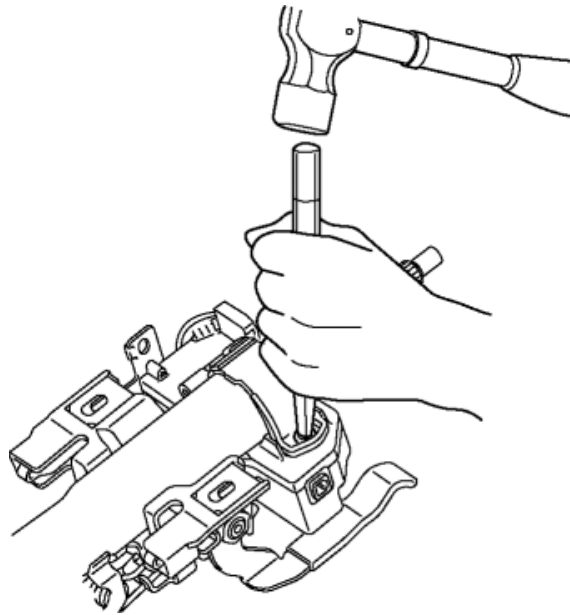
Steering Shaft Component Removal Note

CAUTION:

- Always lock the adjusting lever to prevent damage to the steering shaft. In addition, do not unlock the adjusting lever until after the steering shaft installation is completed.
1. Lock the adjusting lever.
 2. Remove the nut, and then remove the steering shaft component from the dashboard member.

Steering Lock Mounting Bolt, Steering Lock Component Removal Note

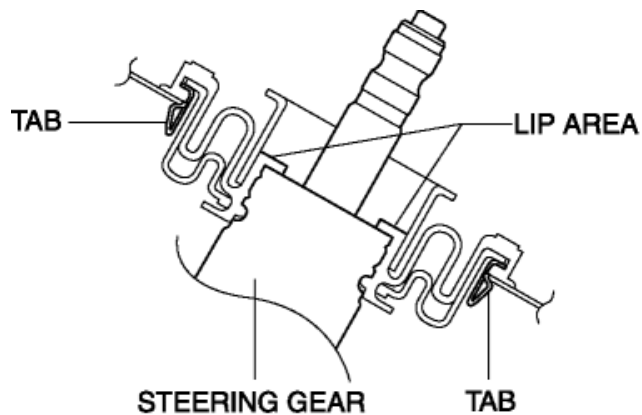
1. Make a groove in the heads of the steering lock mounting bolts using a chisel and hammer.



2. Remove the bolt using a flathead screwdriver, then remove the steering lock component from the steering shaft.

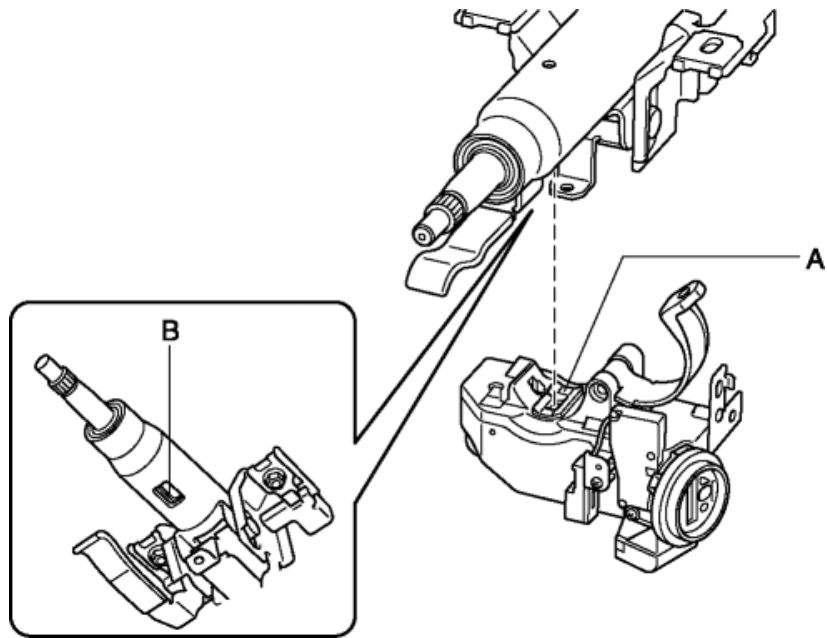
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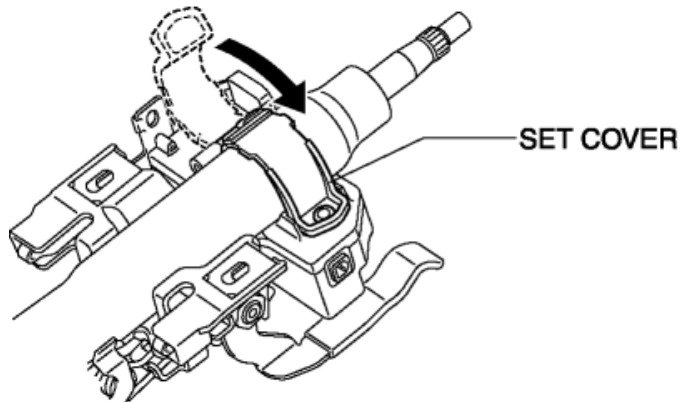


Steering Lock Component, Steering Lock Mounting Bolt Installation Note

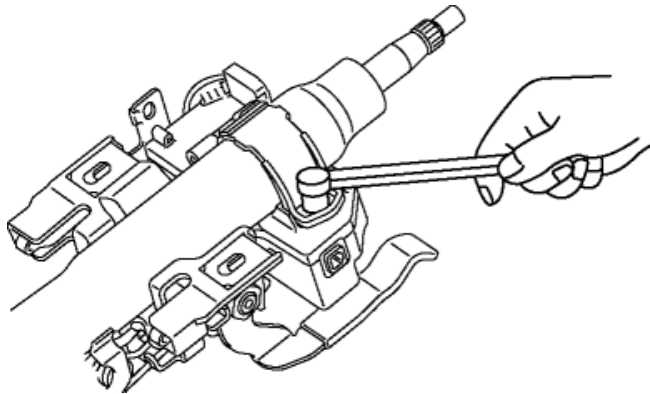
1. Assemble section A of the steering lock component to the section B of the steering shaft.



2. Set the set cover to the steering shaft and then temporarily install the steering lock component to the steering shaft using a new steering lock mounting bolt.



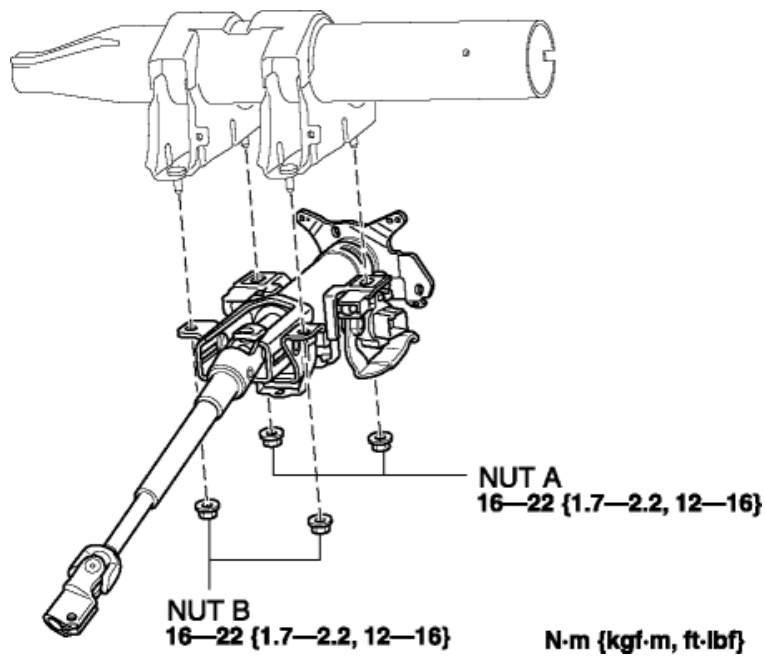
3. Tighten the steering lock mounting bolt until the head breaks off.



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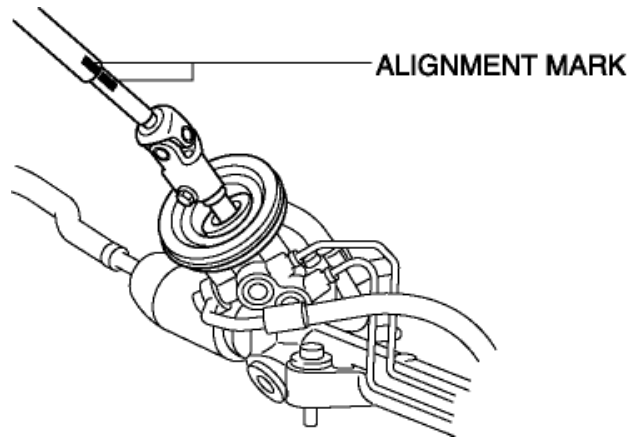
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1. Verify that the adjusting lever is in the LOCK position.
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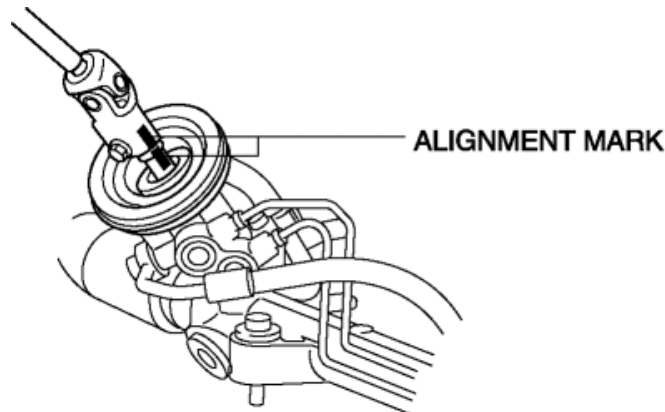
3. Tighten the nuts in the order of nut A and nut B.

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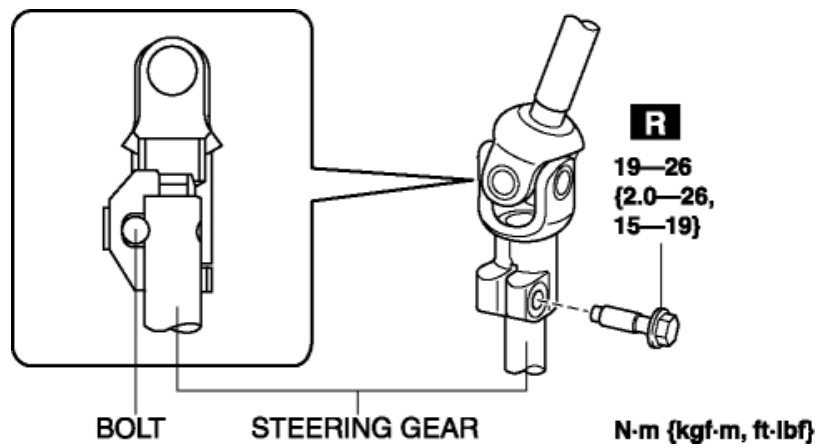
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