

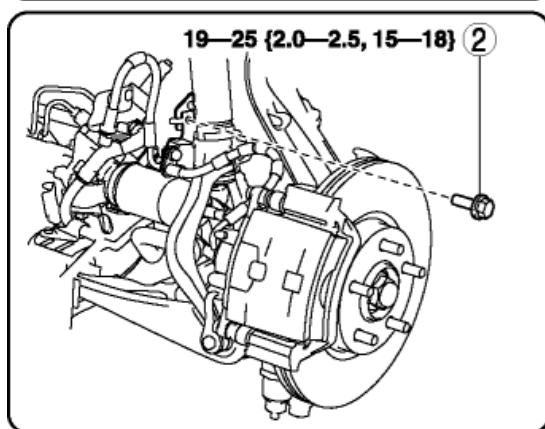
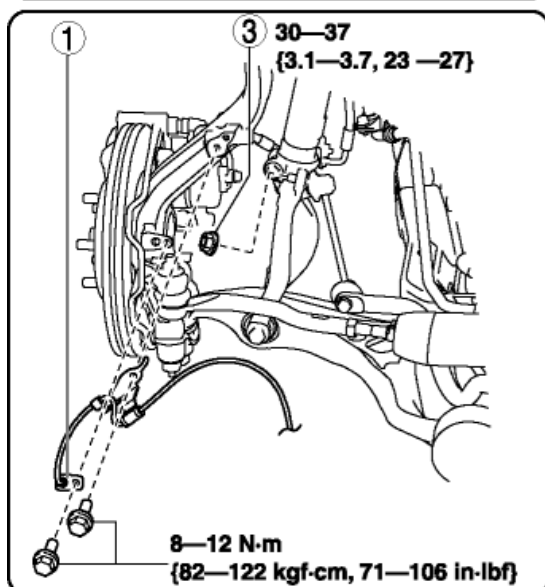
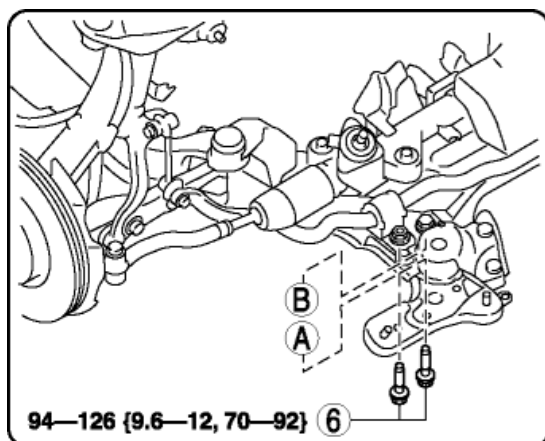
2012 - Mazda6 - Suspension

FRONT LOWER ARM REMOVAL/ INSTALLATION

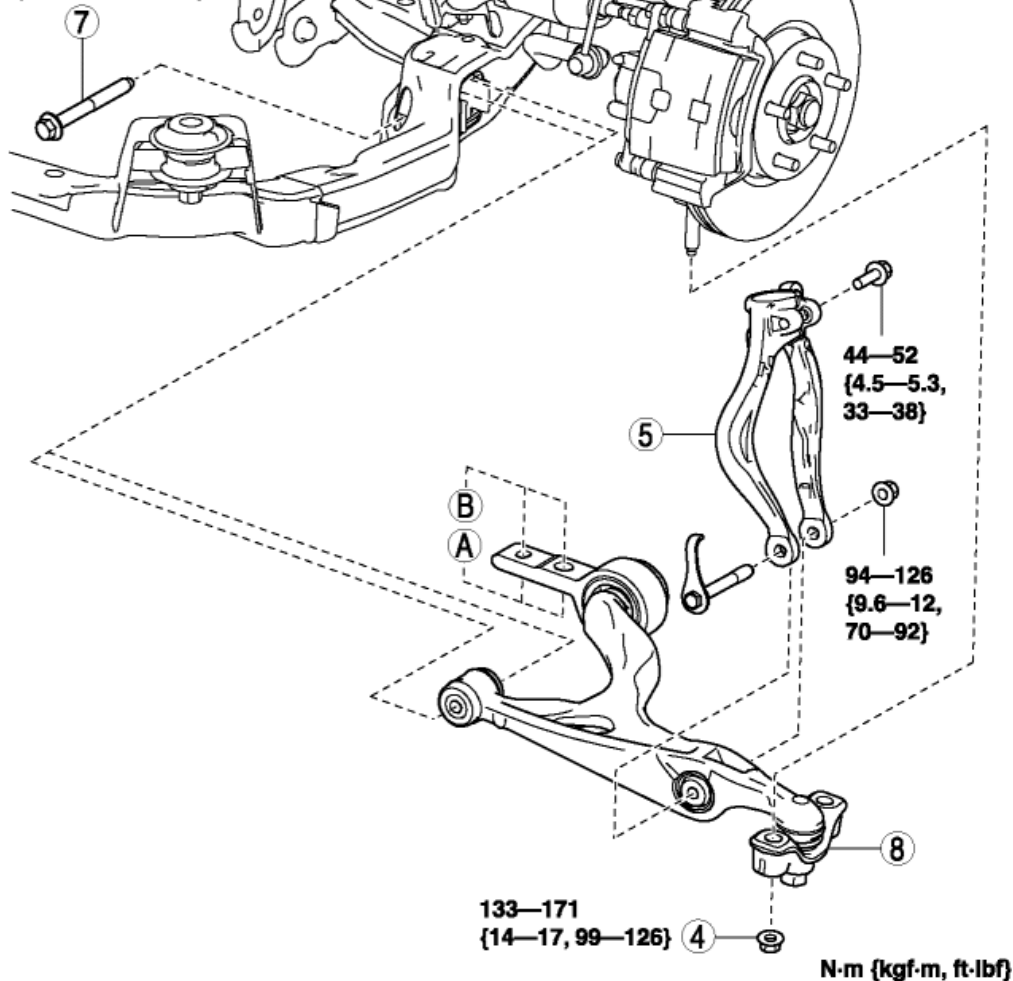
CAUTION:

- Performing the following procedures without first removing the ABS wheel-speed sensor may possibly cause an open circuit in the harness if it is pulled by mistake. Before performing the following procedures, remove the ABS wheel-speed sensor (axle side) and fix it to an appropriate place where the sensor will not be pulled by mistake while servicing the vehicle.

1. Remove the aerodynamic under cover No.2. (MZR 2.5) (See [AERODYNAMIC UNDER COVER NO.2 REMOVAL/ INSTALLATION](#).)
2. For the vehicle with MZI 3.7 V6, working on the right side of the vehicle, remove the front pipe. (See [EXHAUST SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.
5. Inspect for front wheel alignment. (See [FRONT WHEEL ALIGNMENT](#).)



120—154 {13—15, 89—113}



N·m {kgf·m, ft·lbf}

1Front ABS wheel-speed sensor

2Brake hose bracket bolt

3Front stabilizer control link upper side nut

4Front lower arm outer side nut

(See [Front Lower Arm Outer Side Nut Removal Note.](#))

5Damper fork

6	Front lower arm inner side bolt (rear)
7	Front lower arm inner side bolt (front) (See Front Lower Arm Inner Side Bolt (Front) Removal Note [MZR 2.5].) (See Front Lower Arm Inner Side Bolt (Front) Removal Note [MZI 3.7 V6].) (See Front Lower Arm Inner Side Bolt (Front) Installation Note [MZR 2.5].) (See Front Lower Arm Inner Side Bolt (Front) Installation Note [MZI 3.7 V6].)
8	Front lower arm

Front Lower Arm Outer Side Nut Removal Note

WARNING:

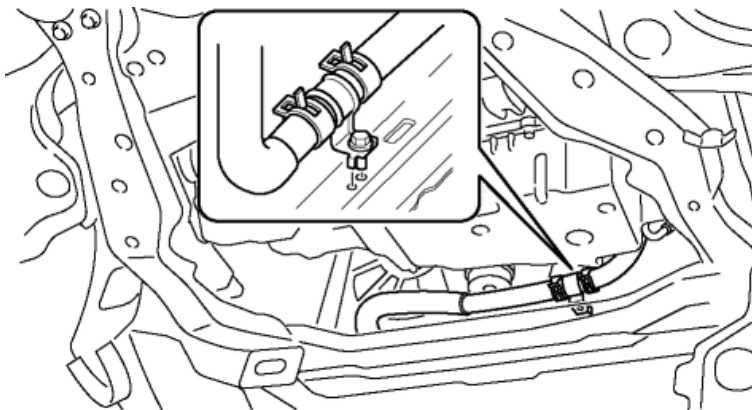
- If the stud bolt of the front knuckle is loosened when removing the front lower arm outer nut, replace the stud bolt with a new one. If the stud bolt is reused, it could fall off while driving, resulting in serious injury or death, and damage to the vehicle.

Front Lower Arm Inner Side Bolt (Front) Removal Note [MZR 2.5]

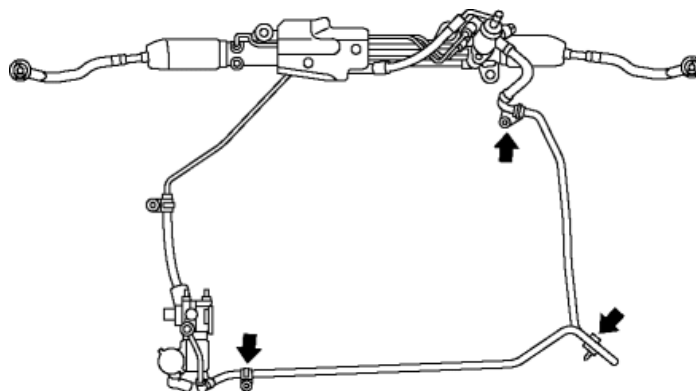
NOTE:

- When working on the left side of the vehicle, lower the front crossmember component slightly so that the oil pan does not interfere with the removal of the front lower arm front side bolt.

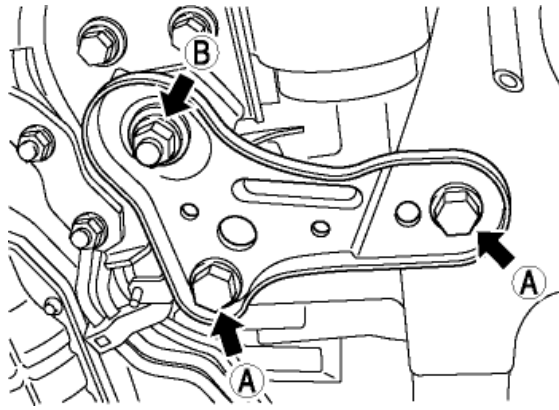
1. Slightly bend back the mudguard. (See [FRONT MUDGUARD REMOVAL/ INSTALLATION.](#))
2. Remove the radiator hose bracket bolt.



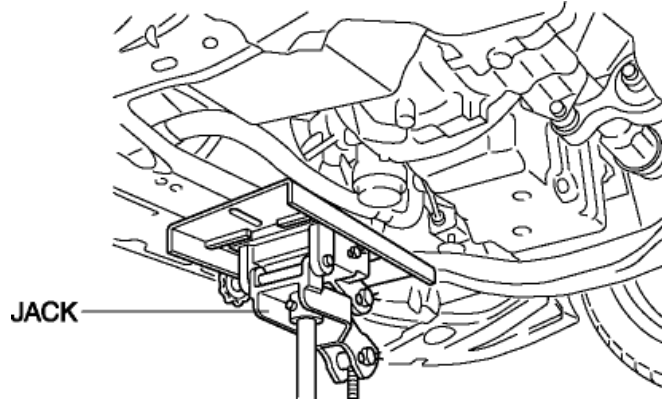
3. Disconnect the steering pipe from the front crossmember.



4. Remove the crossmember bracket bolts A and loosen the crossmember nut B.



5. Support the crossmember component with a jack.



6. Remove the nuts at the front of the crossmember.

7. Lower the jack gradually and tilt the crossmember towards the front.

8. Remove the front lower arm inner side bolt (front).

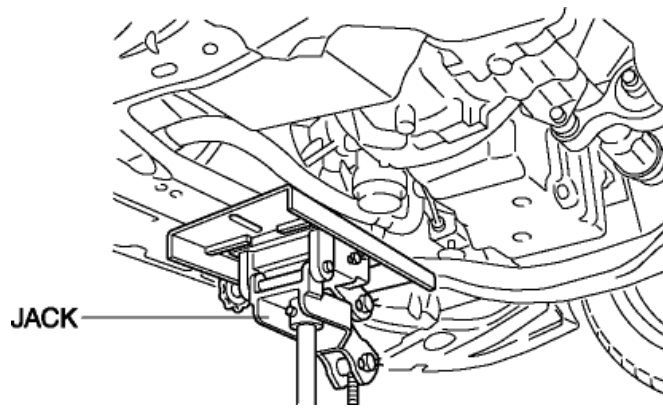
Front Lower Arm Inner Side Bolt (Front) Removal Note [MZI 3.7 V6]

NOTE:

- When working on the right side of vehicles, move the engine and transaxle slightly towards the front side of the vehicle so that the engine does not interfere with the removal of the lower arm rear side bolt.
1. Disconnect the No.1 engine mount (engine side). (See [ENGINE REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
 2. Move the engine and transaxle slightly towards the front side of the vehicle.
 3. Remove the front lower arm inner side bolt (front).

Front Lower Arm Inner Side Bolt (Front) Installation Note [MZR 2.5]

1. Support the crossmember component with a jack.

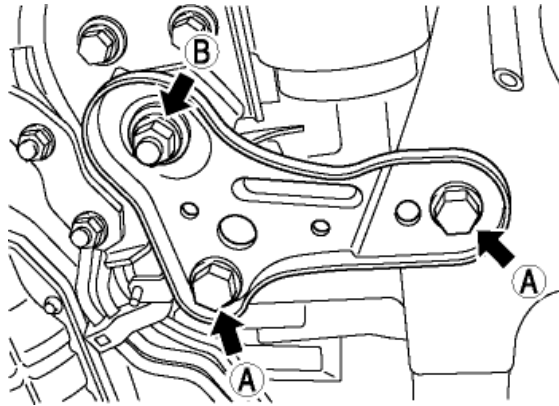


2. Lower the jack gradually and tilt the crossmember towards the front.
3. Install the front lower arm inner side bolt (front).
4. Install the nuts at the front of the crossmember.

Tightening torque

- 120—154 N·m {13—15 kgf·m, 89—113 ft·lbf}

5. Install the crossmember bracket bolts A, and tighten the crossmember nut B.



Tightening torque

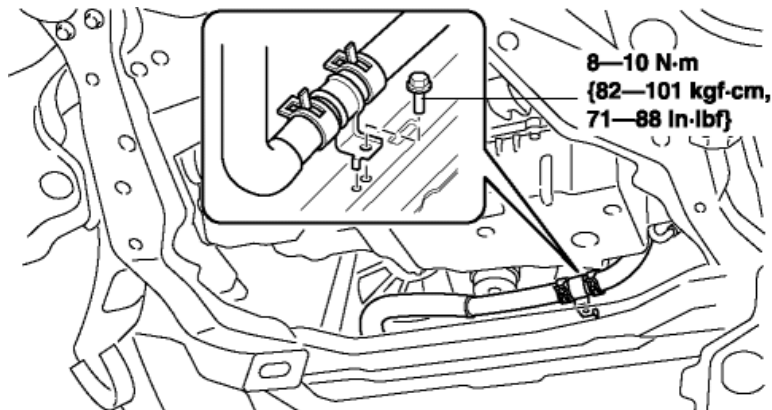
- Bolts A: 94—116 N·m {9.6—11 kgf·m, 70—85 ft·lbf}
- Nut B: 120—154 N·m {13—15 kgf·m, 89—113 ft·lbf}

6. Connect the steering pipe to the front crossmember.

Tightening torque

- 8—10 N·m {82—101 kgf·cm, 71—88 in·lbf}

7. Install the radiator hose bracket to the front crossmember.



Front Lower Arm Inner Side Bolt (Front) Installation Note [MZI 3.7 V6]

1. Move the engine and transaxle slightly towards the front side of the vehicle.
2. Install the front lower arm inner side bolt (front).
3. Install the No. 1 engine mount (engine side). (See [ENGINE REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)

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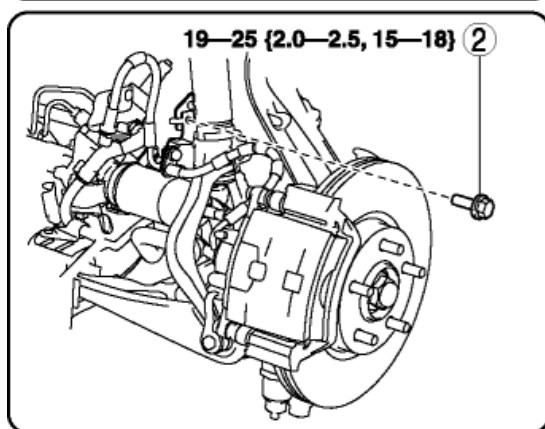
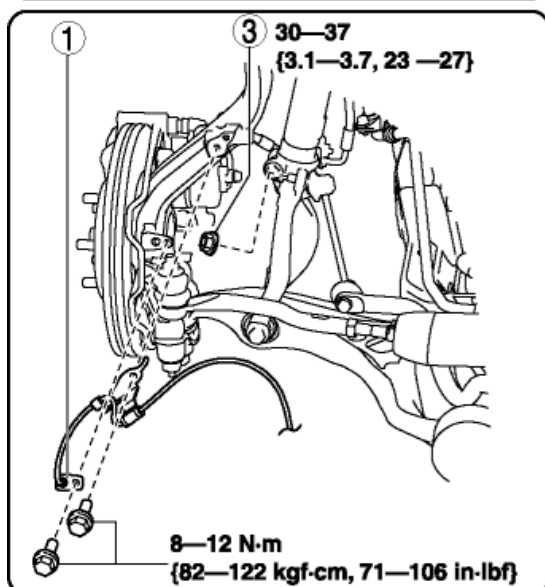
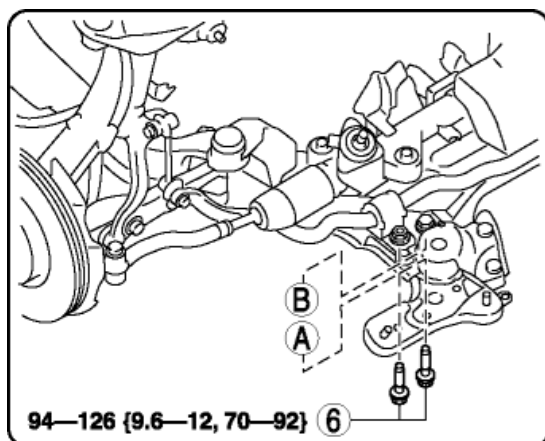
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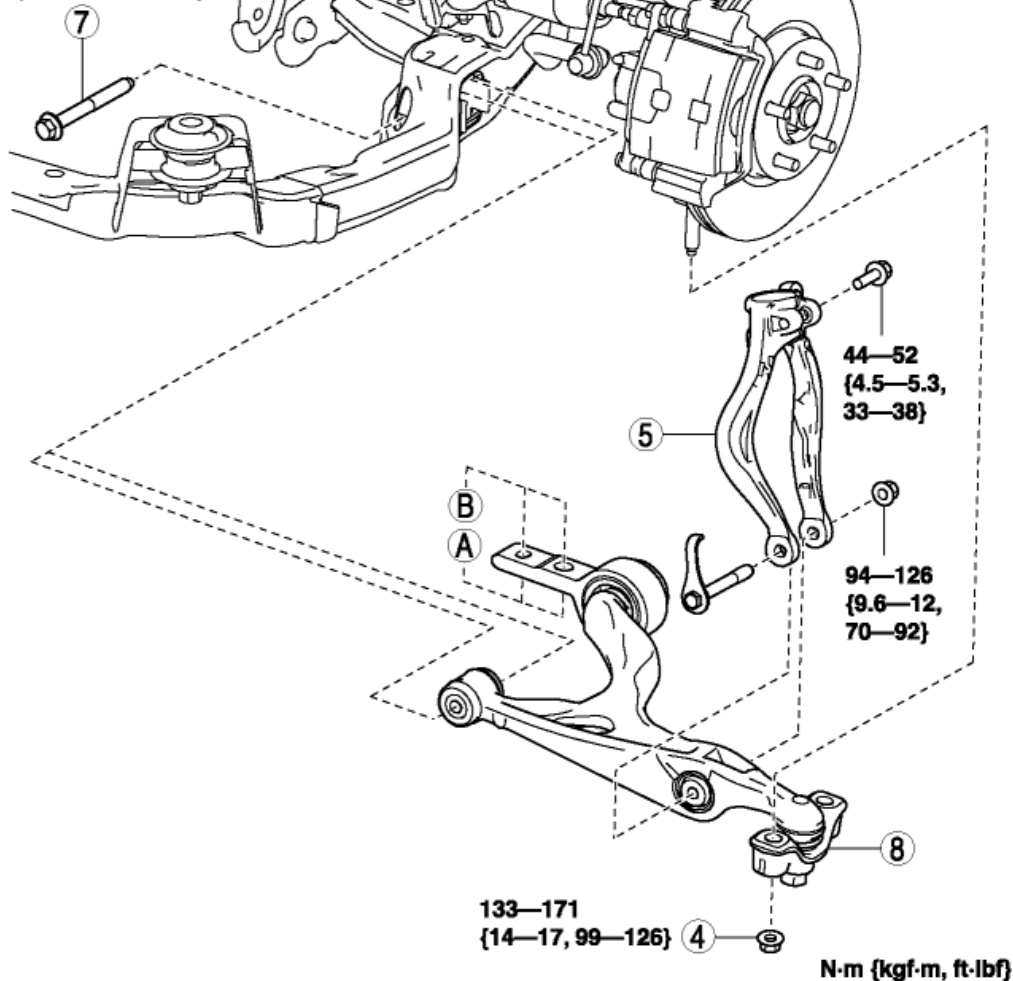
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120–154 {13–15, 89–113} 7



1Front ABS wheel-speed sensor

2Brake hose bracket bolt

3Front stabilizer control link upper side nut

4Front lower arm outer side nut

(See [Front Lower Arm Outer Side Nut Removal Note.](#))

5Damper fork

6	Front lower arm inner side bolt (rear)
7	Front lower arm inner side bolt (front) (See Front Lower Arm Inner Side Bolt (Front) Removal Note [MZR 2.5].) (See Front Lower Arm Inner Side Bolt (Front) Removal Note [MZI 3.7 V6].) (See Front Lower Arm Inner Side Bolt (Front) Installation Note [MZR 2.5].) (See Front Lower Arm Inner Side Bolt (Front) Installation Note [MZI 3.7 V6].)
8	Front lower arm

Front Lower Arm Outer Side Nut Removal Note

WARNING:

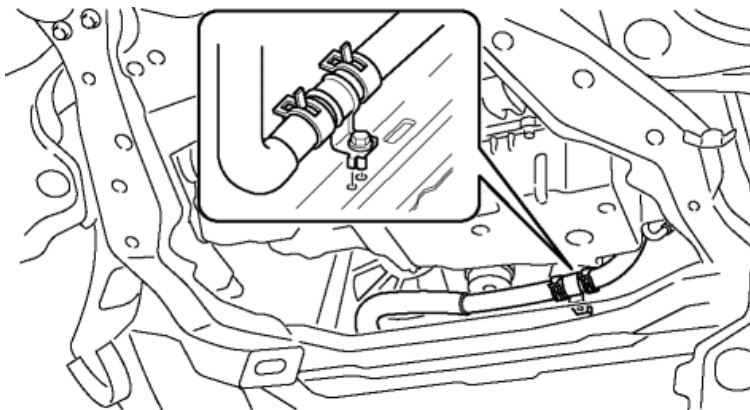
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Front Lower Arm Inner Side Bolt (Front) Removal Note [MZR 2.5]

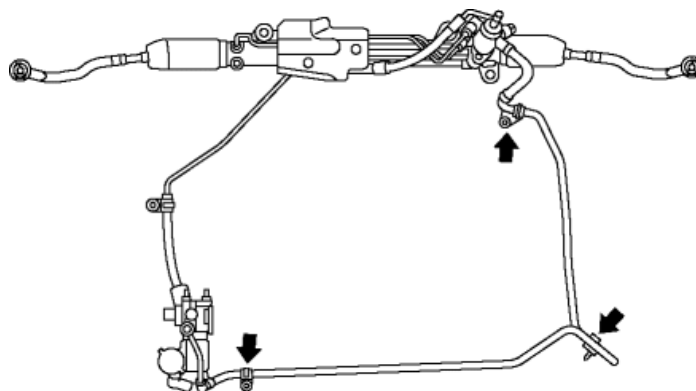
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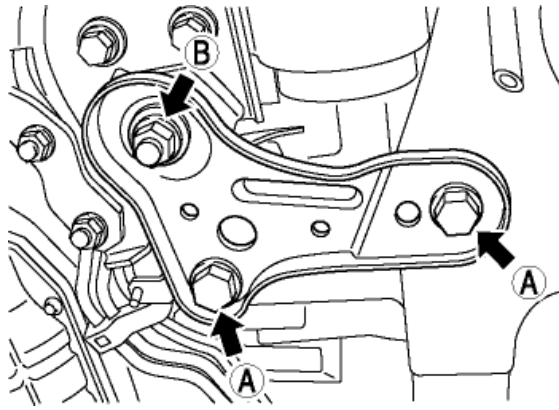
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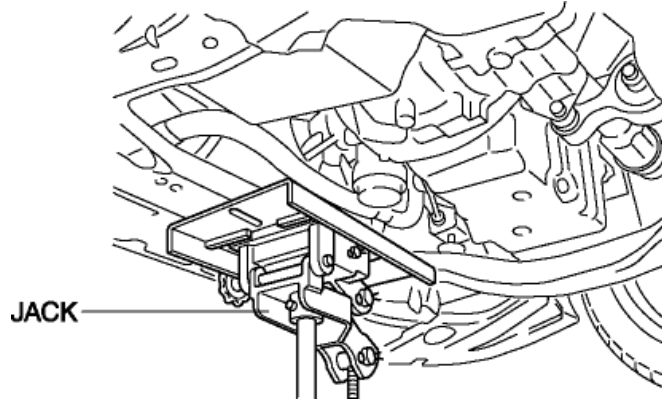
3. Disconnect the steering pipe from the front crossmember.



4. Remove the crossmember bracket bolts A and loosen the crossmember nut B.



5. Support the crossmember component with a jack.



6. Remove the nuts at the front of the crossmember.
7. Lower the jack gradually and tilt the crossmember towards the front.
8. Remove the front lower arm inner side bolt (front).

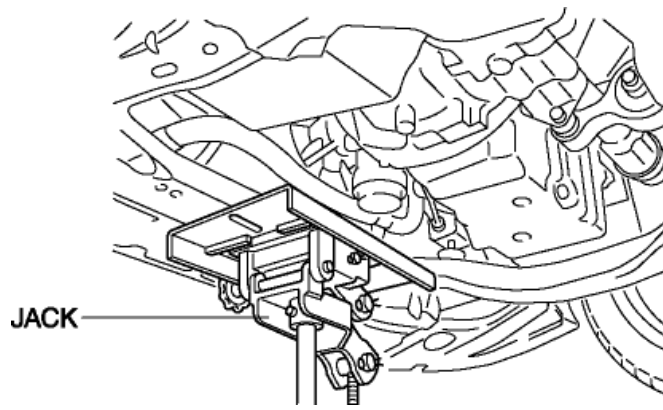
Front Lower Arm Inner Side Bolt (Front) Removal Note [MZI 3.7 V6]

NOTE:

- When working on the right side of vehicles, move the engine and transaxle slightly towards the front side of the vehicle so that the engine does not interfere with the removal of the lower arm rear side bolt.
1. Disconnect the No.1 engine mount (engine side). (See [ENGINE REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
 2. Move the engine and transaxle slightly towards the front side of the vehicle.
 3. Remove the front lower arm inner side bolt (front).

Front Lower Arm Inner Side Bolt (Front) Installation Note [MZR 2.5]

1. Support the crossmember component with a jack.

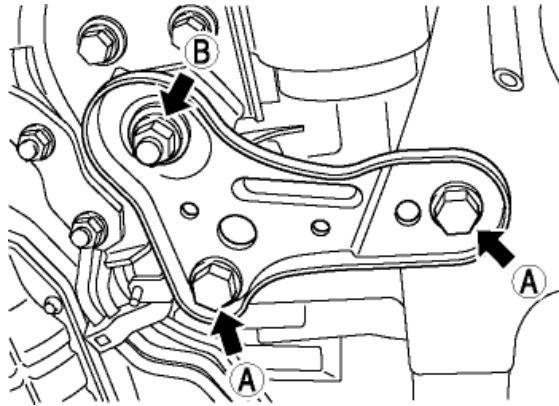


2. Lower the jack gradually and tilt the crossmember towards the front.
3. Install the front lower arm inner side bolt (front).
4. Install the nuts at the front of the crossmember.

Tightening torque

- 120—154 N·m {13—15 kgf·m, 89—113 ft·lbf}

5. Install the crossmember bracket bolts A, and tighten the crossmember nut B.



Tightening torque

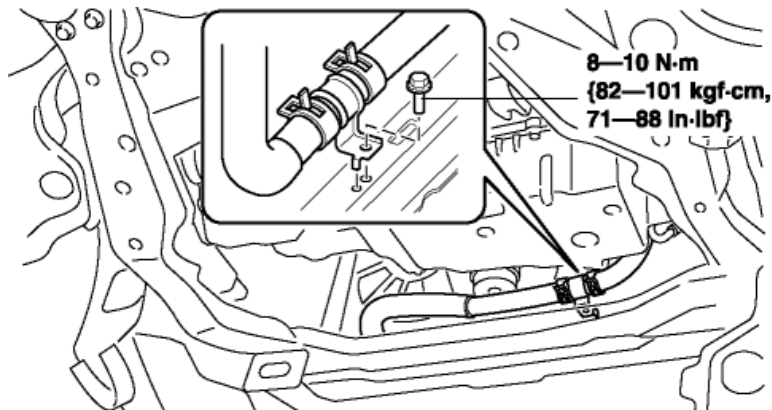
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Front Lower Arm Inner Side Bolt (Front) Installation Note [MZI 3.7 V6]

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