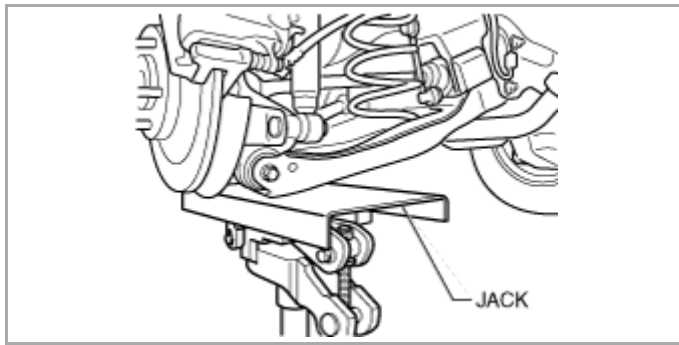


# Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

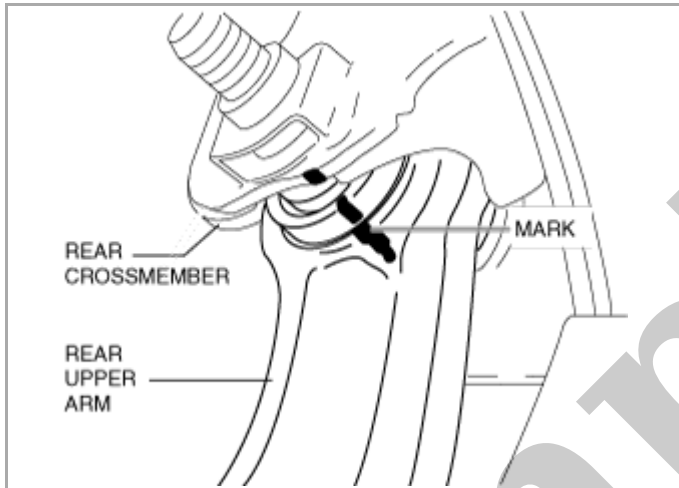
## 2011 MAZDA 3 / Axela Hatchback OEM Service and Repair Workshop Manual

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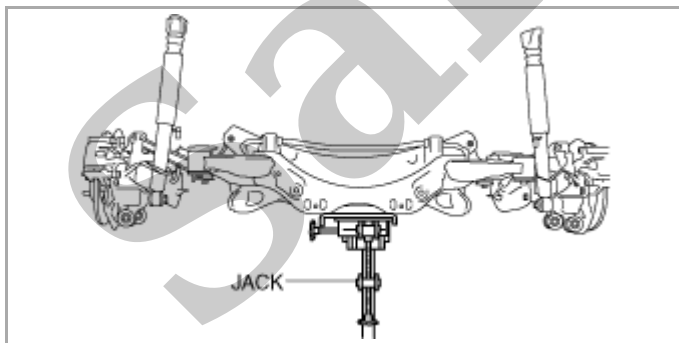
ac5wzw00002859

2.Align the rear crossmember component and rear upper arm and mark them.



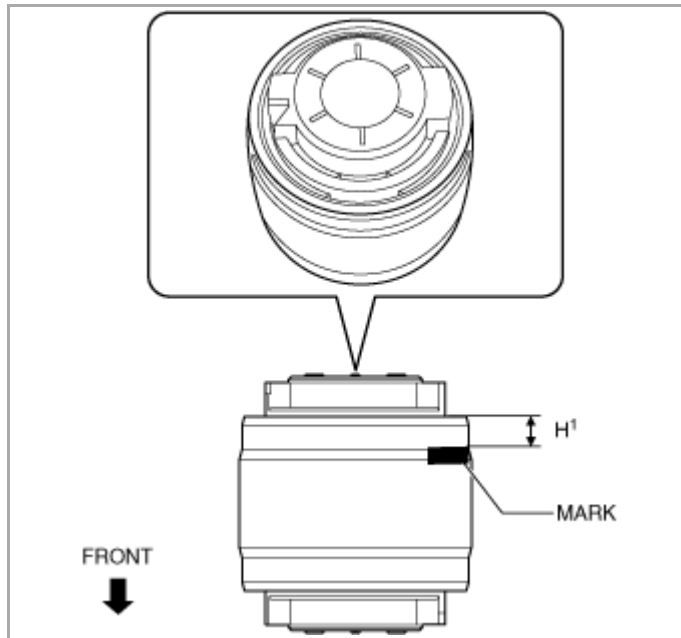
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3.Support the rear crossmember component with a jack and remove the rear crossmember installation nuts.



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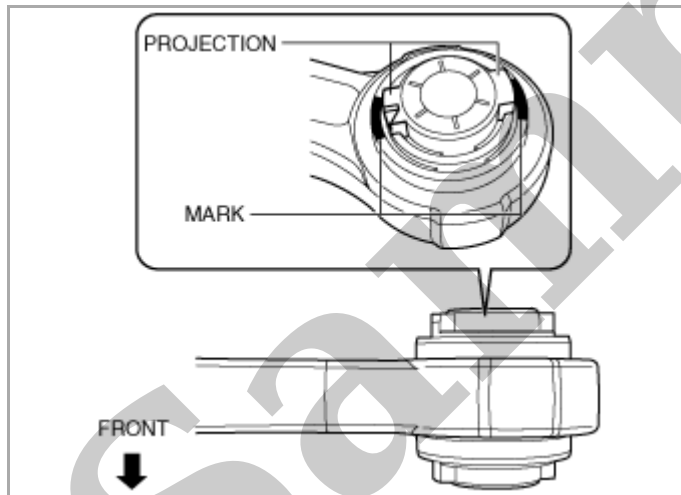
4.Press down on the rear crossmember component slowly until the rear upper arm inside installation bolts can be removed using a jack.



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$H^1: 7.0 \pm 0.6 \text{ mm } \{0.28 \pm 0.02 \text{ in}\}$

2. Align the projection of a new rear upper arm bushing with the marks placed during removal.

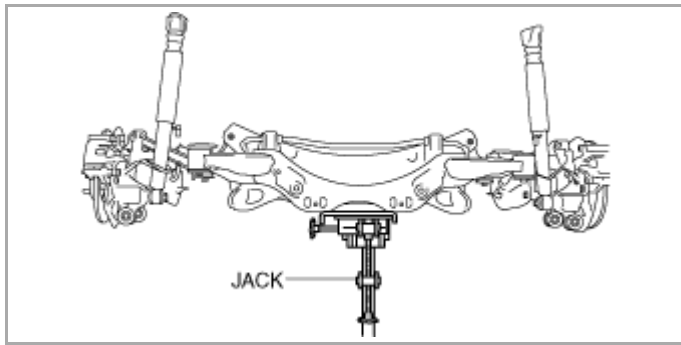


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3. Press fit the rear upper arm bushing until the marks placed in Step 1 cannot be seen using the SSTs.

#### Caution

- Set using the SST (49 U034 204) as shown in the figure to prevent damaging the rear upper arm and rear upper arm bushing and install the rear upper arm bushing.



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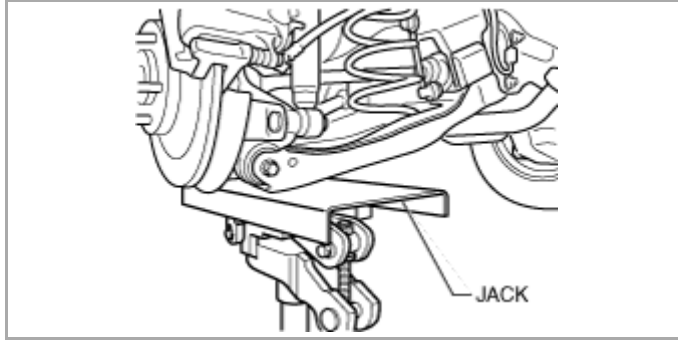
### **Tightening torque**

91–111 N·m {9.3–11 kgf·m, 68–81 ft·lbf}

### **Rear Upper Arm Outer Bolt Installation Note**

1. Insert the rear upper arm outer bolt from the front of the vehicle.

1.Support the rear lower arm using a jack.



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2.Remove the rear lower arm outer bolt.

## Suspension Links Installation Note

1.When installing the joint sections with rubber bushings, perform the following procedures.

(1)Temporarily tighten the nut and bolt with the vehicle lifted up.

(2)Lower the vehicle to the ground and tighten the nut and bolt to the specified torque.

## Adjusting Cam Bolt, Cam Plate and Rear Lower Arm Inner Nut Installation Note

1.Insert the adjusting cam bolt from the front of the vehicle.

2.Point the calibration marking on the adjusting cam bolt and cam plate towards the upper side of the vehicle.

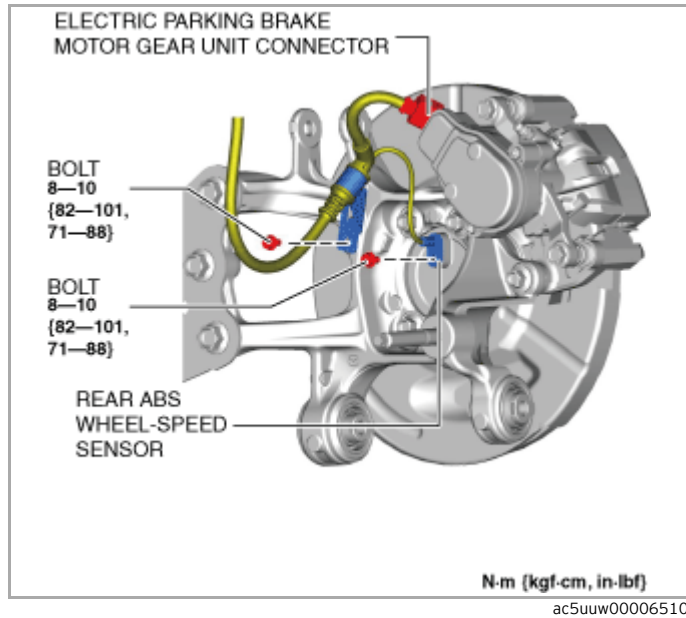
3.Install the rear lower arm inner nut.

### Tightening torque

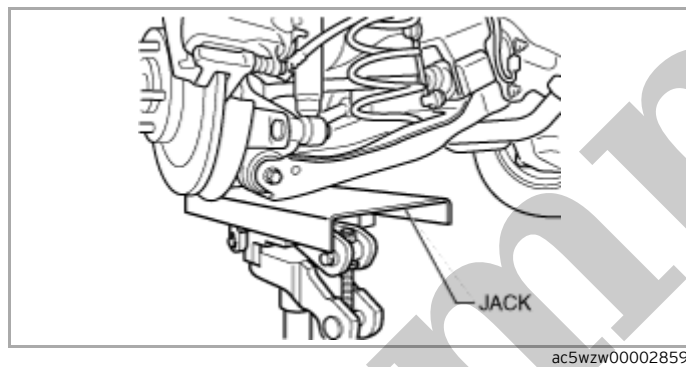
84–101 N·m {8.6–10 kgf·m, 62–74 ft·lbf}

## Rear Lower Arm Outer Bolt Installation Note

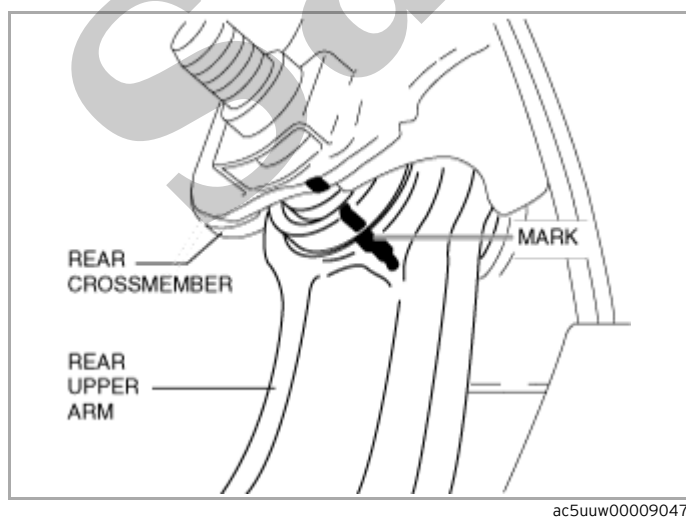
1.Install the rear coil spring as shown in the figure.



7. Jack up the vehicle to the unloaded condition, and support the rear lower arm using a jack.



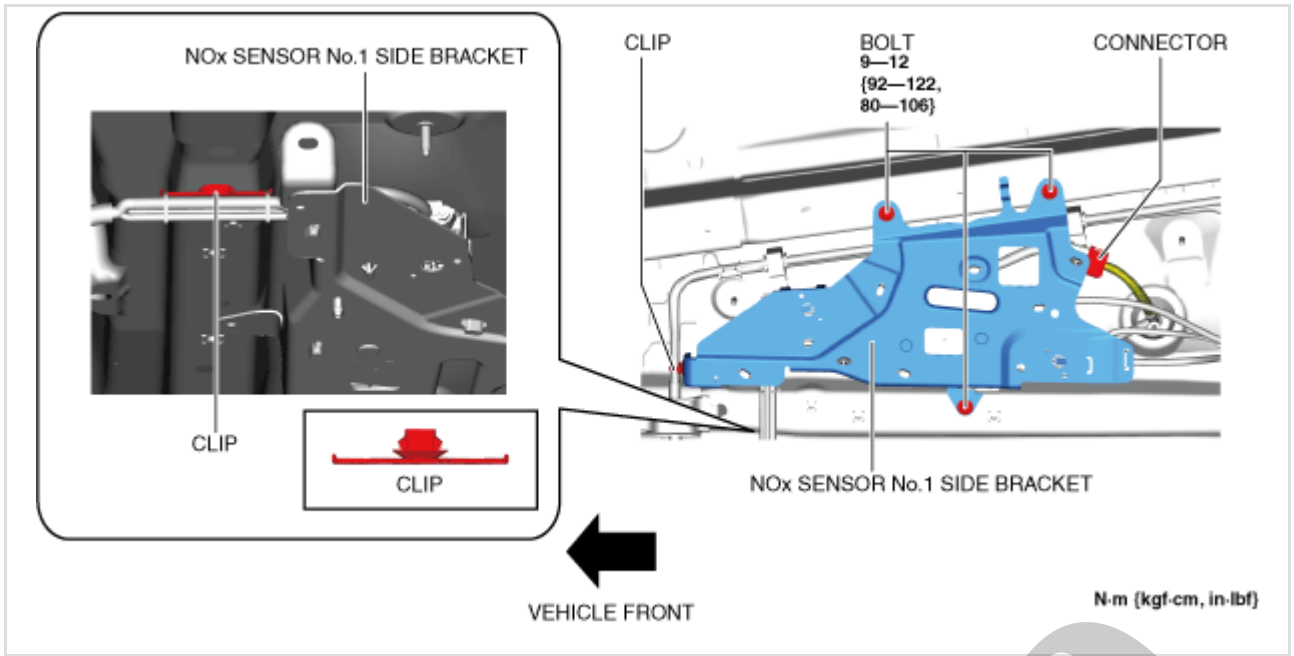
8. Align the rear crossmember component and rear upper arm and mark them.



9. Remove the following parts. (See **FLOOR UNDER COVER REMOVAL/INSTALLATION.**)

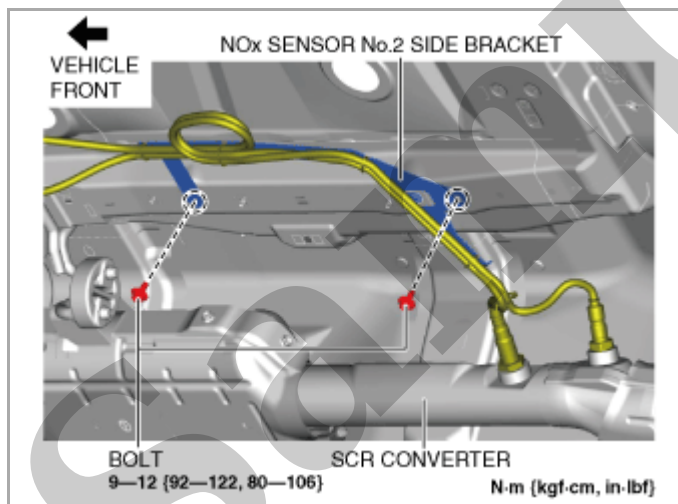
(1) Floor under cover No.2

(2) Floor under cover No.1



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- (3) Remove the bolts.
- (4) Disconnect the connector.
- (5) Set the NOx sensor No.1 side bracket aside.
- (6) Remove the bolts.



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- (7) Set the NOx sensor No.2 side bracket aside.
- (8) Remove the following parts as a single unit.
  - NOx sensor No.1 side bracket
  - NOx sensor No.2 side bracket
  - SCR converter (See [EXHAUST SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

#### 14. Remove the following parts.

- (1) Rear lateral link (See [REAR LATERAL LINK REMOVAL/INSTALLATION](#).)
- (2) Rear coil spring (See [REAR COIL SPRING REMOVAL/INSTALLATION](#).)
- (3) Rear lower arm (See [REAR LOWER ARM REMOVAL/INSTALLATION](#).)

#### 15. Remove in the order indicated in the table.

# REAR LOWER ARM REMOVAL/INSTALLATION

SM2897967

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### Warning

- Be careful not to allow the coil spring to fly off when removing/installing the coil spring. Otherwise, the coil spring could fly off and cause serious injure or death, or damage to the vehicle.

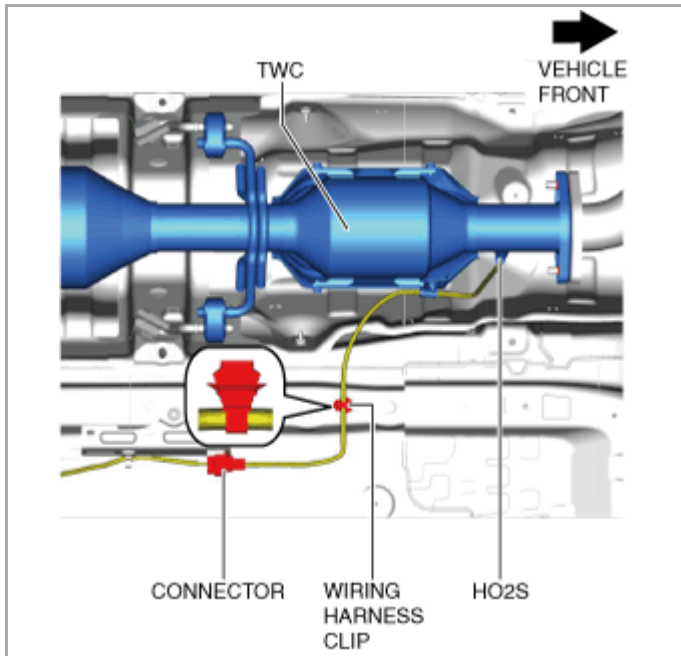
1.Remove the wheel and tire. (See [WHEEL AND TIRE REMOVAL/INSTALLATION](#).)

2.Remove in the order indicated in the table.

3.Install in the reverse order of removal. (See [Suspension Links Installation Note](#).)

4.Inspect the wheel alignment and adjust it if necessary. (See [REAR WHEEL ALIGNMENT](#).)



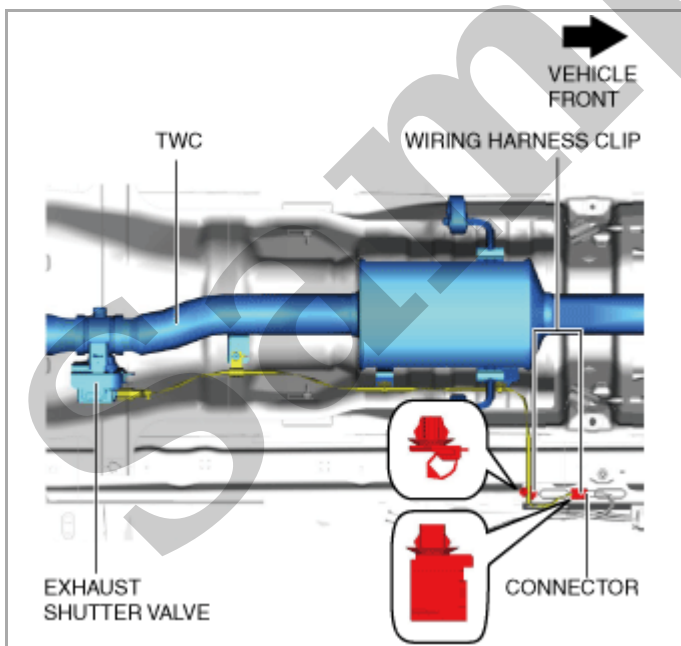


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(2) Remove the TWC. (See EHAS T S STEM REMOVAL/INSTALLATION [S ACTIV G 2.5 (WITHOT C LINDER DEACTIVATION)].) (See EHAS T S STEM REMOVAL/INSTALLATION [S ACTIV G 2.5T].)

14. or S ACTIV G 2.5 (With cylinder deactivation) vehicles, perform the following procedure.

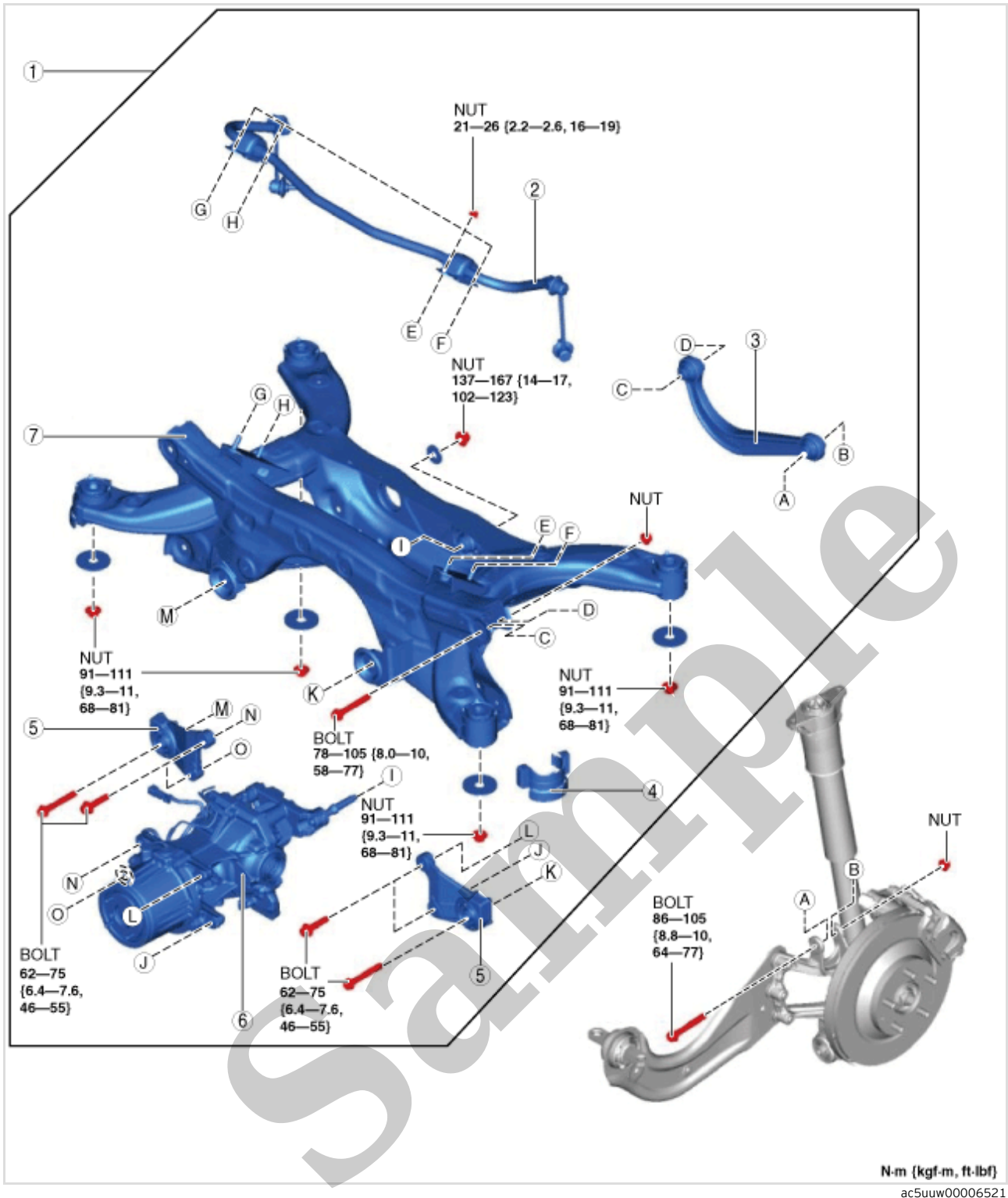
(1) Disconnect the exhaust shutter valve connector.



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(2) Disconnect the wiring harness clips.

(3) Disconnect the HO2S connector and the wiring harness clip.



1	Rear crossmember component (See <a href="#">Rear Crossmember Component Removal Note.</a> ) (See <a href="#">Rear Crossmember Component Installation Note.</a> )
2	Rear stabilizer component
3	Rear upper arm (See <a href="#">REAR UPPER ARM REMOVAL/INSTALLATION [AWD].</a> )
4	Rear crossmember mudguard
5	Rear differential mount rubber (See <a href="#">REAR DIFFERENTIAL MOUNT RUBBER REMOVAL/INSTALLATION.</a> )
6	Rear differential (See <a href="#">REAR DIFFERENTIAL REMOVAL/INSTALLATION.</a> )
7	Rear crossmember