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2008 MAZDA 6/Atenza Wagon OEM Service and Repair Workshop Manual

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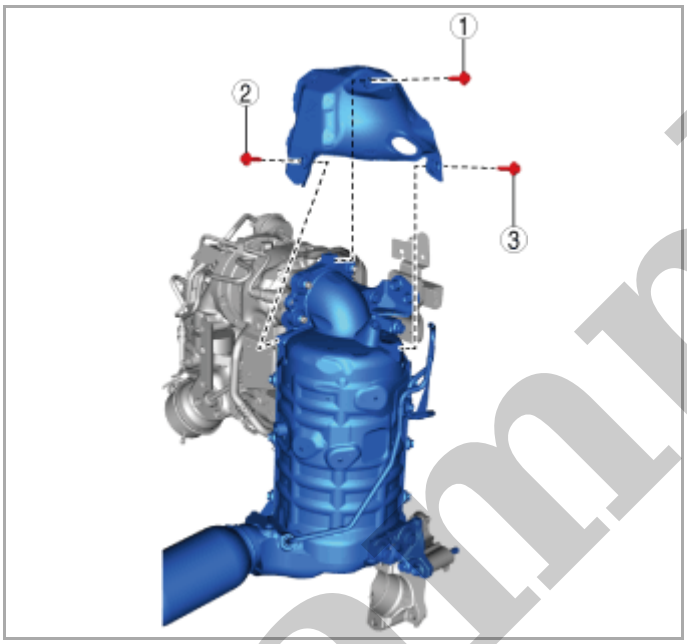
38–51 N·m {3.9–5.2 kgf·m, 29–37 ft·lbf}

9.All the conclusions check after attachment whether it is the right torque.

Catalytic converter insulator installation note

1.Temporarily tighten the catalytic converter insulator installation bolts.

2.Tighten the bolts in the order shown in the figure.



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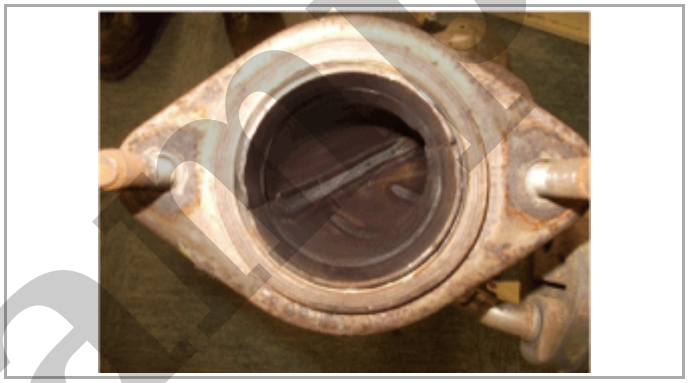
Catalytic converter insulator installation bolt tightening torque

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

STEP	INSPECTION	RESULTS	ACTION
5	**DETERMINE IF DIESEL PARTICULATE FILTER REPLACEMENT IS NECESSARY OR NOT FROM SOOT ACCUMULATION CONDITION IN CATALYTIC CONVERTER OUTLET** • Remove the middle pipe. (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) • Inspect the soot accumulation in the catalytic converter outlet. • Is the soot accumulation in the catalytic converter outlet the same (inside of outlet pipe is completely covered in soot) or more than the condition shown in the following picture?  ac5jjw00011578 **Note** **• Adhesion of oil due to burn as shown in the following picture is not considered as soot accumulation.**  ac5jjw00011579	Yes	Replace the catalytic converter. (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Perform compulsory diesel particulate filter regeneration. (See COMPULSORY DIESEL PARTICULATE FILTER REGENERATION [SKYACTIV-D 2.2].) Clean the tail pipe, and go to the next step after removing the accumulated soot.
6	**PERFORM DIESEL SMOKE INSPECTION AND DETERMINE IF DIESEL PARTICULATE FILTER REPLACEMENT IS NECESSARY OR NOT** • Perform the diesel smoke inspection. • Is inspection result within the legal specification?	Yes	The diesel particulate filter is normal.
		No	Replace the catalytic converter. (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

UREA TANK REMOVAL/INSTALLATION [SKYACTIV-D 2.2]

SM2897557

id0116e180900

1.Connect the M-MDS to the DLC-2.

2.Switch the ignition ON (engine off).

3.After the vehicle is identified, select the following items from the initial screen of the M-MDS.

(1)Select the “Powertrain”.

(2)Select the “Selective Catalytic Reduction”.

(3)Select the “SCR function”.

(4)Select the “SCR Emptying”.

4.Switch the ignition off.

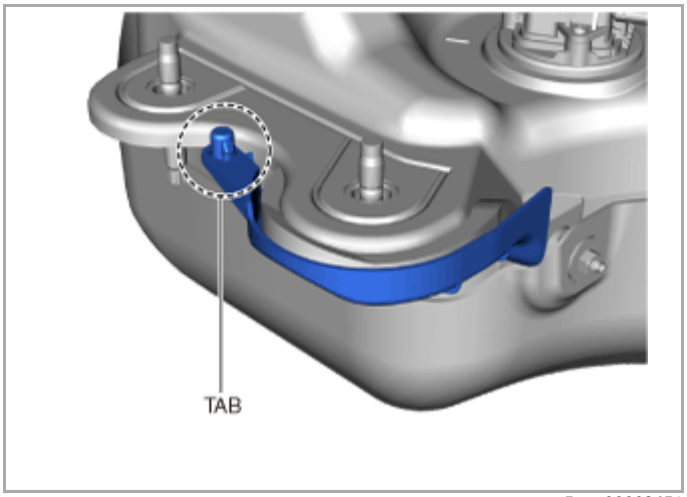
5.Disconnect the negative battery terminal. (See. NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION)

6.Remove in the order shown in the figure.

7.Install in the reverse order of removal.

8.If the urea tank is replaced, perform the “Operation After Replacing Urea Tank” procedure. (See SCR SYSTEM INSPECTION [SKYACTIV-D 2.2].)

Step 1



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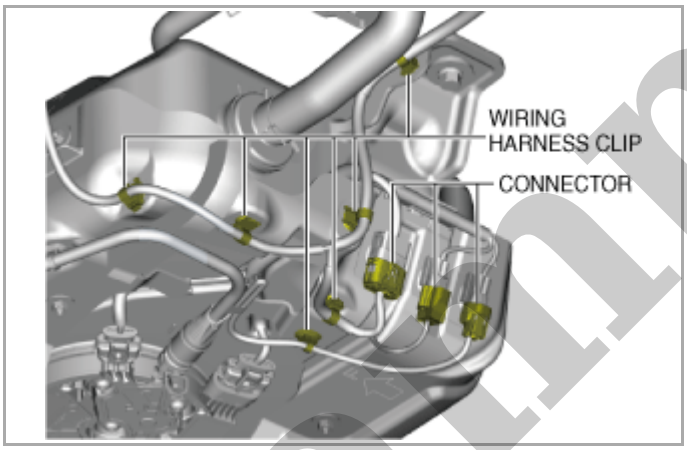
Urea Tank Component Removal Note

1.Disconnect the connectors and wiring harness clips shown in the figure.



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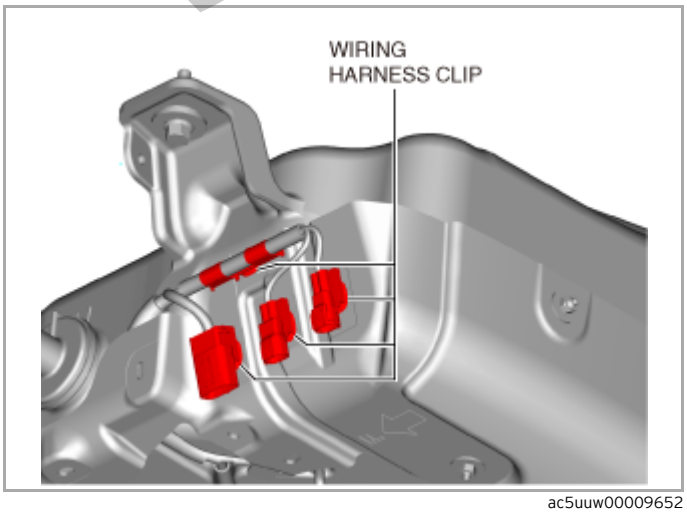
Urea Tank Cover No.3 Removal Note

1.Disconnect the wiring harness clip shown in the figure.



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QUICK RELEASE CONNECTOR (EMISSION SYSTEM) REMOVAL/INSTALLATION [SKYACTIV-D 2.2]

SM2897555

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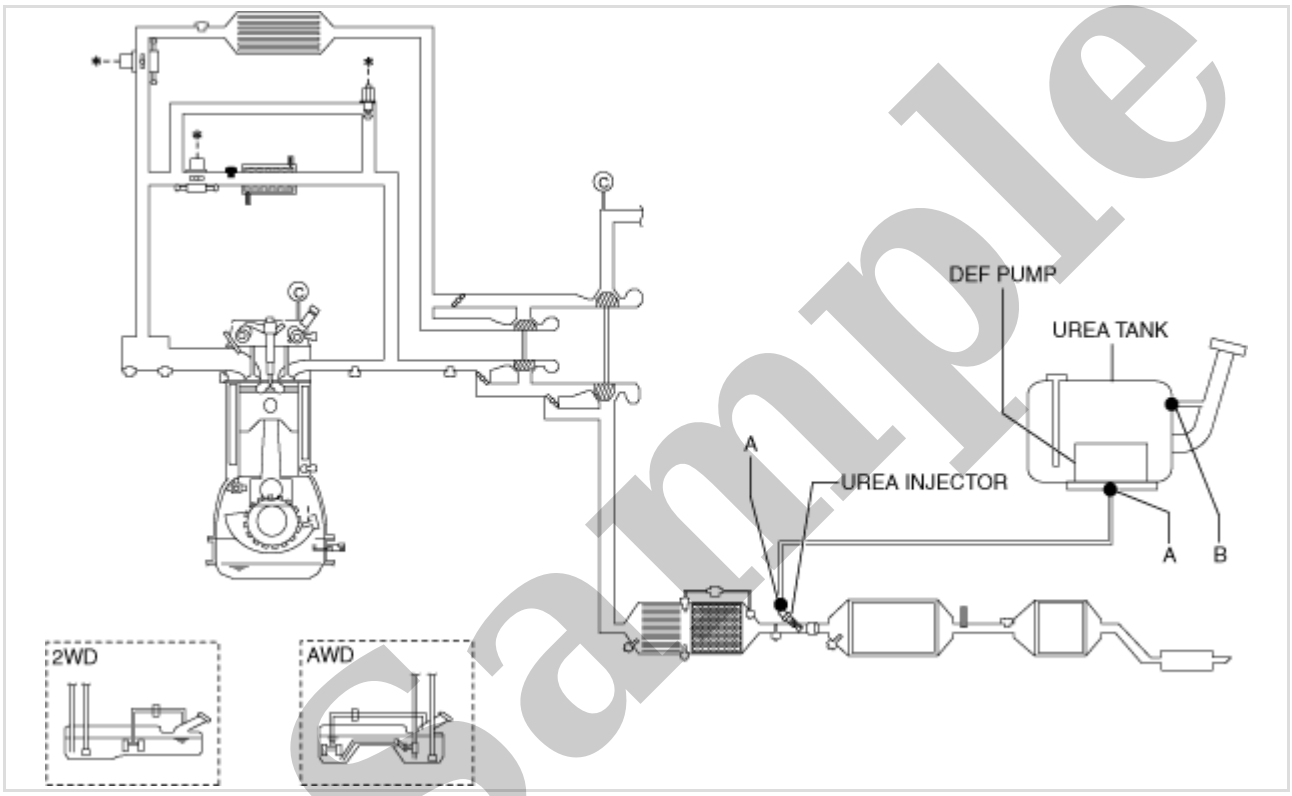
Caution

• Foreign material on the connecting area of the quick release connector might cause damage to the connector or evaporative hose. To prevent this, clean the connecting area before reconnecting a disconnected connector.

Quick Release Connector Position and Type



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Type A Removal

1.Connect the M-MDS to the DLC-2.

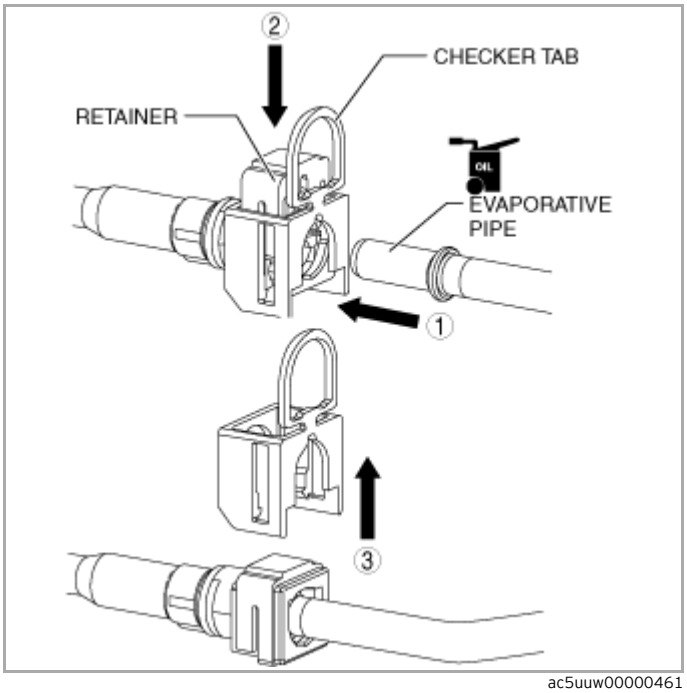
2.Switch the ignition ON (engine off).

3.After the vehicle is identified, select the following items from the initial screen of the M-MDS.

(1)Select the “Powertrain”.

(2)Select the “Selective Catalytic Reduction”.

(3)Select the “SCR function”.



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- Insert the evaporative pipe straight to the end of the quick release connector.
- Push down the retainer using a finger.

  — If the retainer cannot be pushed down, push the evaporative pipe further to the quick release connector.

4.Lightly pull and push the quick release connector a few times by hand, and then verify that it is connected securely.

Before: 4400−8600 hPa
After: 4400−8600 hPa

8)Select the “SCR Emptying”.

(4)Verify that the SCR warning light in the instrument cluster is not turned on.

(5)Switch the ignition off.

Operation After Replacing Dosing Control Unit

1.If the Dosing Control Unit is replaced, perform the following procedure.

(1)Connect the M-MDS to the DLC-2.

(2)Switch the ignition ON (engine off).

(3)Perform compulsory diesel particulate filter regeneration. (See COMPULSORY DIESEL PARTICULATE FILTER REGENERATION [SKYACTIV-D 2.2].)

(4)After the vehicle is identified, select the following items from the initial screen of the M-MDS.

1)Select the “Powertrain”.

2)Select the “Selective Catalytic Reduction”.

3)Select the “SCR function”.

4)Select the “SCR Dosing valve dry actuation test”.

The test result

The number of valve test: 10
The number of successful: 8 or more

5)Select the “Reset for urea tank level”.

6)Access the PID/DATA monitor item RRDC_AG_RMN and VOLRDC_AG_RMN using the M-MDS.

7)Verify that the remaining amount of diesel exhaust fluid (DEF) indicated on the M-MDS matches the remaining amount of diesel exhaust fluid (DEF) in the vehicle.

— If they do not match, repeat the procedure from Step 1.

(5)Select the following items from the initial screen of the M-MDS.

1)Select the “Powertrain”.

2)Select the “Selective Catalytic Reduction”.

3)Select the “SCR function”.

4)Select the “SCR First Filling”.

5)Select the “SCR Pressure Preparation”.

6)Select the “SCR Emptying”.

7)Access the simulation item HTR_TANK using the M-MDS.

8)Using the simulation function, operate the urea tank heater.

9)Access the simulation item HTR_LINE using the M-MDS.

10)Using the simulation function, operate the urea hose heater.

11)Verify that no DTC is displayed.

UREA INJECTOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2]

SM2897558

id0116e180910

1.Connect the M-MDS to the DLC-2.

2.Switch the ignition ON (engine off).

3.After the vehicle is identified, select the following items from the initial screen of the M-MDS.

(1)Select the “Powertrain”.

(2)Select the “Selective Catalytic Reduction”.

(3)Select the “SCR function”.

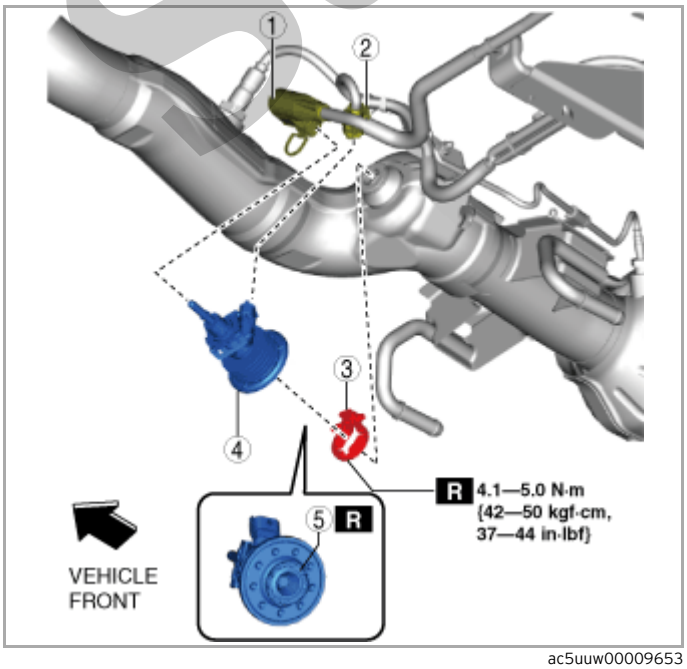
(4)Select the “SCR Emptying”.

4.Switch the ignition off.

5.Disconnect the negative battery terminal. (See. NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION)

6.Remove the brace bar. (2WD) (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

7.Remove in the order shown in the table.



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UREA INJECTOR INSPECTION [SKYACTIV-D 2.2]

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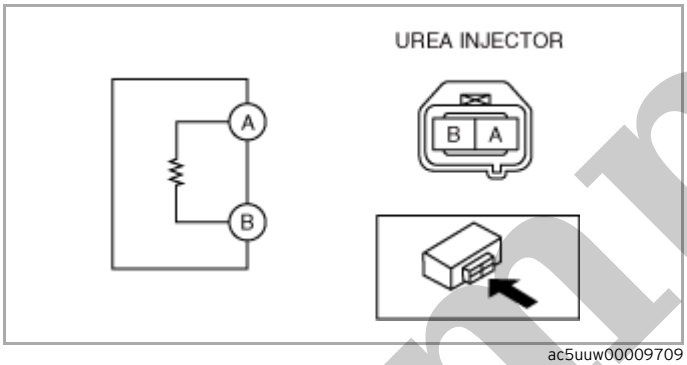
Resistance Inspection

1.Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.)

2.Disconnect the urea injector connector. (See UREA INJECTOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

3.Inspect the resistance between urea injector terminals A and B.



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Urea injector resistance

11−13 ohms [20 °C {68 °F}]

• If not within the specification, replace the urea injector. (See UREA INJECTOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)