

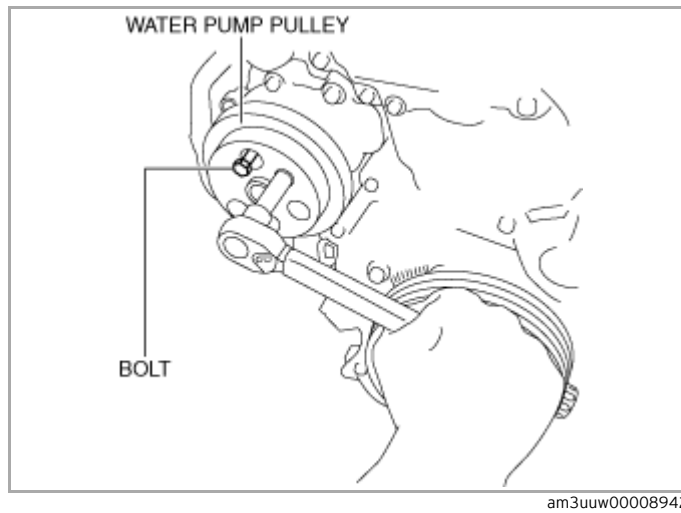
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2006 MAZDA Tribute OEM Service and Repair Workshop Manual

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3.Insert an appropriate bolt (length 70 mm {2.8 in}) into the water pump pulley shown in the figure and lock the water pump pulley against rotation.



4.Completely tighten the water pump pulley bolt to the specified torque.

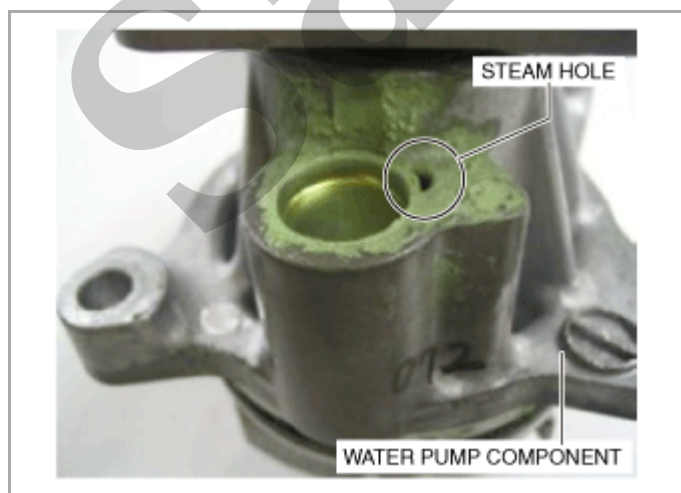
Tightening torque

8–11 N·m {82–112 kgf·cm, 71–97 in·lbf}

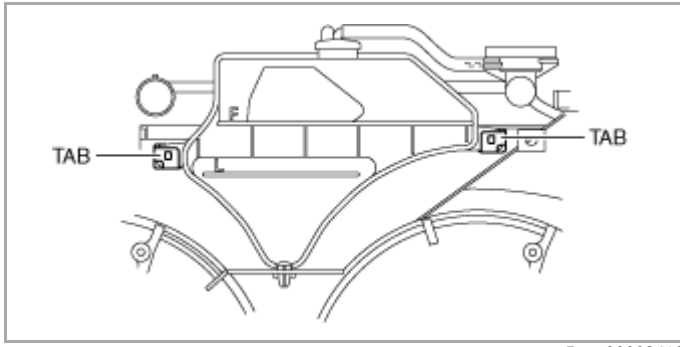
5.Remove the bolt used for locking the water pump pulley against rotation.

Determination Criteria for Water Pump Coolant Leakage

- If any coolant residue (green) around the steam hole can be verified but there is no large solid matter adhered to it as shown in the following figure, the residue is caused by a small amount of steam blowing through the steam hole, not coolant leakage. Therefore, this does not indicate a problem.

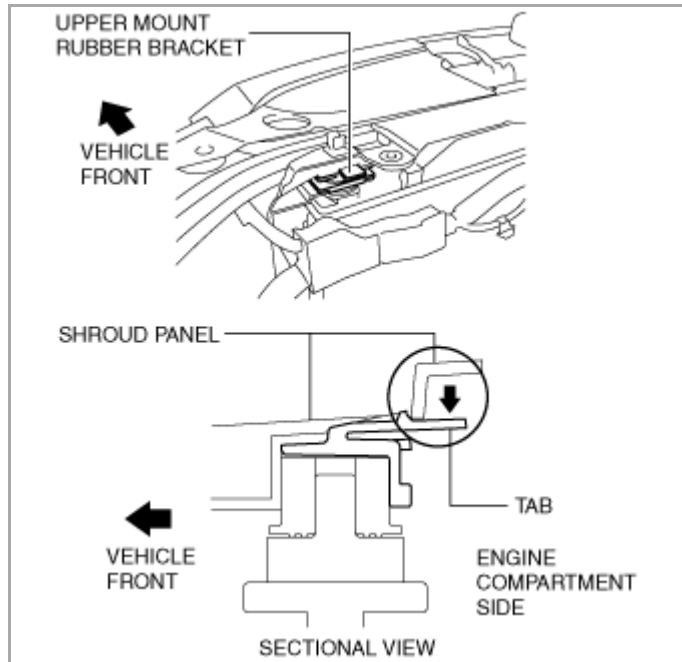


- If a large amount of solid matter is adhered to the area around the steam hole or the area is wet by coolant as shown in the following figure, a water pump seal or gasket malfunction can be considered. Therefore, perform the coolant leakage inspection and replace the water pump or gasket. (See **ENGINE COOLANT LEAKAGE INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]**.)



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Sample



ac5uuw00007809

2.Remove the upper mount rubber bracket.

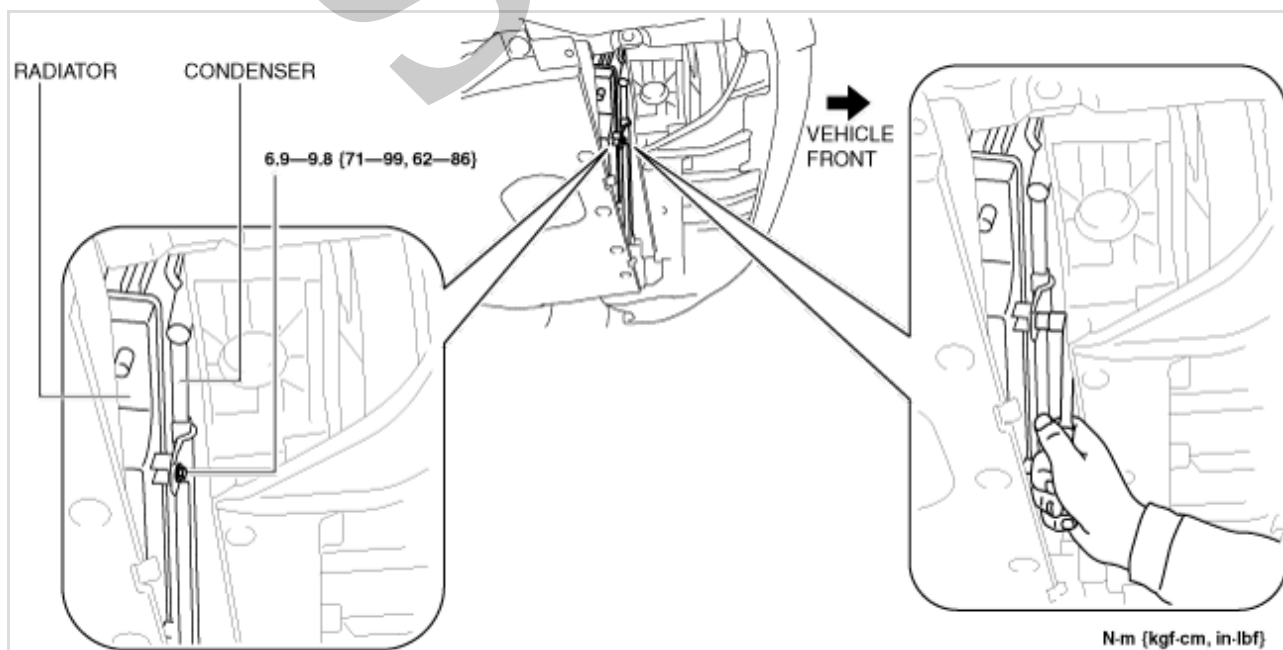
Radiator Removal Note

1.To prevent damage to the radiator core, protect it by covering the radiator surface with cardboard.

2.Lift the radiator and remove it from the radiator installation holes on the shroud panel.

3.Move the radiator and condenser to the engine side.

4.Remove the two bolts (lower side) which secure the condenser to the radiator.



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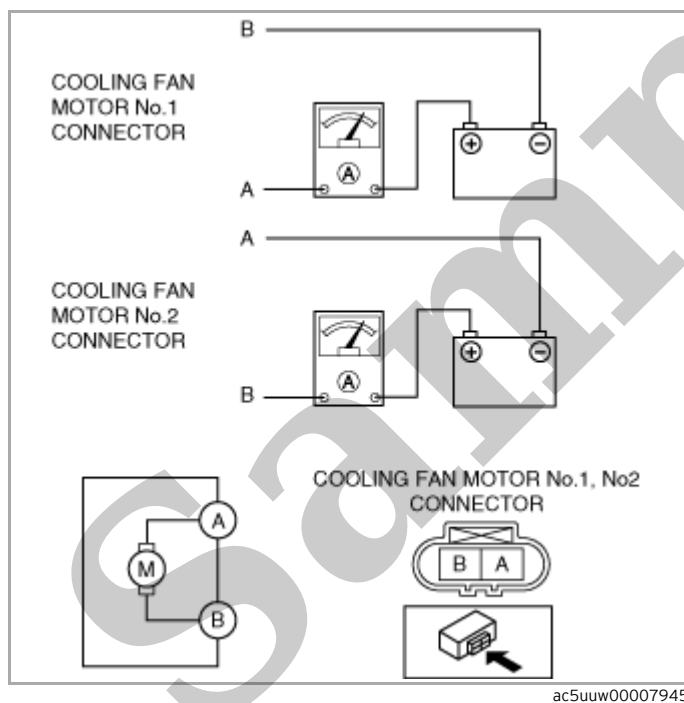
COOLING FAN MOTOR INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]

SM2897364

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Part Inspection

1. Verify that the battery is fully charged. (See **BATTERY INSPECTION**.)
2. Disconnect the cooling fan motor connector (2 terminals).
3. Install a tester and battery to the cooling fan motor connector (2 terminals) as shown in the figure.

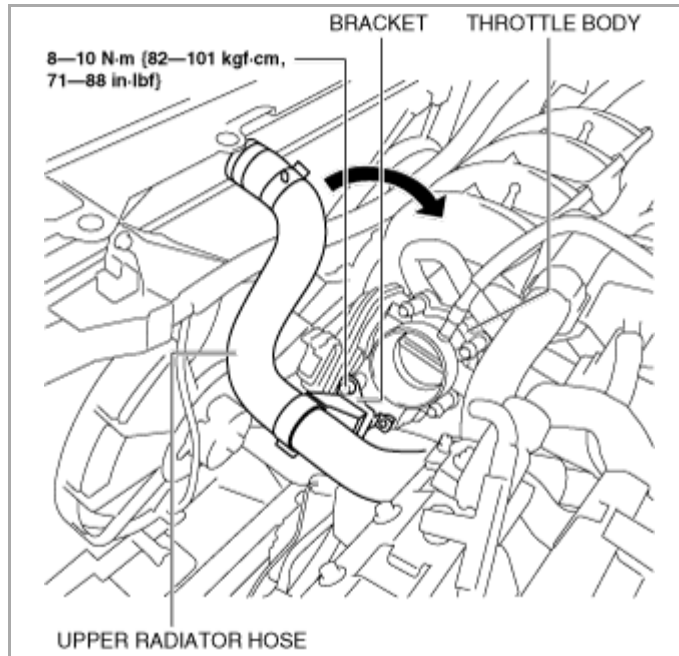


4. Verify that each cooling fan motor operates smoothly at the standard current.

- If there is any malfunction, replace the applicable part.

Cooling fan motor No.1, No.2 standard current

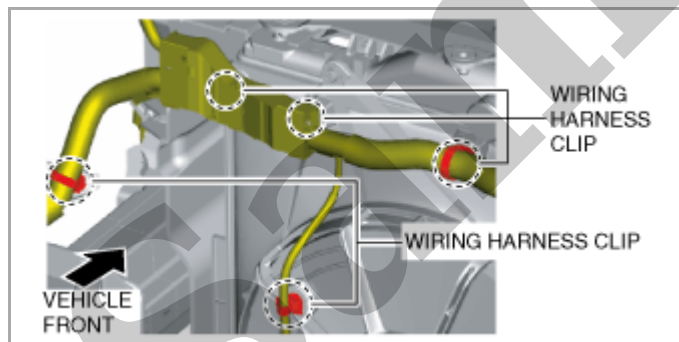
4.5–8.5 A [12 V]



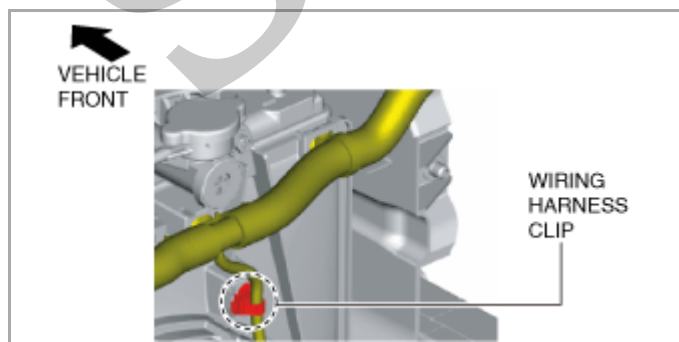
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Cooling Fan Component Removal Note

1. Disconnect the connectors from the cooling fan motors.
2. Remove the wiring harness clips shown in the figure.



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ac5uuw00009571

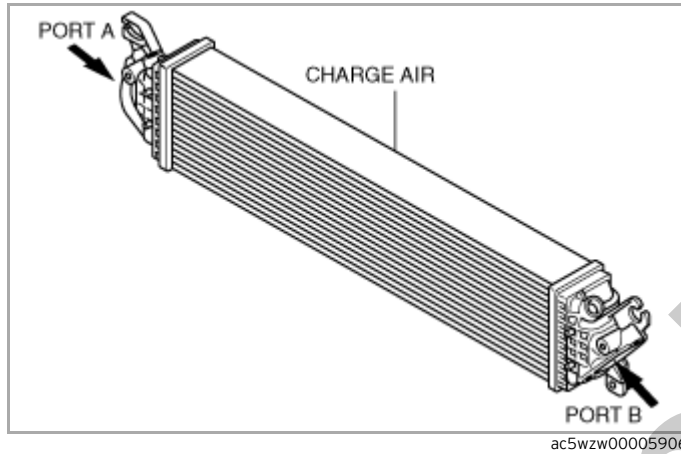
3. Remove the cooling fan component from above the engine compartment.

CHARGE AIR COOLER INSPECTION [SKYACTIV-G 2.5T]

SM2897381

id0113q480090

1.Plug port A.



2.Apply pressure from port B and verity that there is no airflow.

- If there is airflow, replace the charge air cooler. (See [CHARGE AIR COOLER REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))

INTAKE MANIFOLD VACUUM INSPECTION [SKYACTIV-G 2.5T]

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1.Remove the check valve (intake manifold side) and install the vacuum gauge. (See [CHECK VALVE \(EMISSION SYSTEM\) REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))

2.Verify that the intake air hoses are installed securely.

3.Warm up the engine.

4.Measure the intake manifold vacuum while idling (no load) using the vacuum gauge.

- If not within the specification, perform the following inspections.

- Compression pressure (See [COMPRESSION INSPECTION \[SKYACTIV-G 2.5T\].](#))

- Check valve (INTAKE-AIR SYSTEM) (See [CHECK VALVE \(INTAKE-AIR SYSTEM\) REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))

- Check valve (EMISSION SYSTEM) (See [CHECK VALVE \(EMISSION SYSTEM\) REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))

- Air suction

- Installation areas of each vacuum hose
 - Installation area of dynamic pressure turbo
 - Installation area of charge air cooler
 - Installation area of throttle body
 - Installation area of fuel injector
 - Installation area of PCV valve
 - Installation area of intake manifold

Standard

Approx. -60.0 kPa {-450.0 mmHg, -17.7 inHg}

INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.5T]

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Replacement Part

Gasket	Charge air cooler air inlet hose	Hose clamp
Quantity: 1	Quantity: 1	Quantity: 1
Location of use: Turbocharger air outlet pipe component	Location of use: Turbocharger air outlet pipe component	Location of use: Charge air cooler air outlet hose
Gasket	Intake manifold gasket	
Quantity: 1	Quantity: 4	-
Location of use: Throttle body	Location of use: Intake manifold	

Oil and Chemical Type

Engine oil
Type: Recommended oil

Warning

- A hot engine and intake air system can cause severe burns. Turn off the engine and wait until they are cool before removing the intake air system.

- 1.Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
- 2.Remove in the order indicated in the table.
- 3.Install in the reverse order of removal.

2.Remove the air inlet pipe.

Turbocharger Air Outlet Pipe Removal Note

1.Remove the battery tray. (See **BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.5T].**)

2.Remove the turbocharger air outlet pipe.

Charge Air Cooler Inlet Hose Removal Note

1.Remove the front under cover No.1. (See **FRONT UNDER COVER No.1 REMOVAL/INSTALLATION.**)

2.Remove the front under cover No.2. (See **FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.**)

3.Release the lock and remove the charge air cooler inlet hose as shown in the figure.