

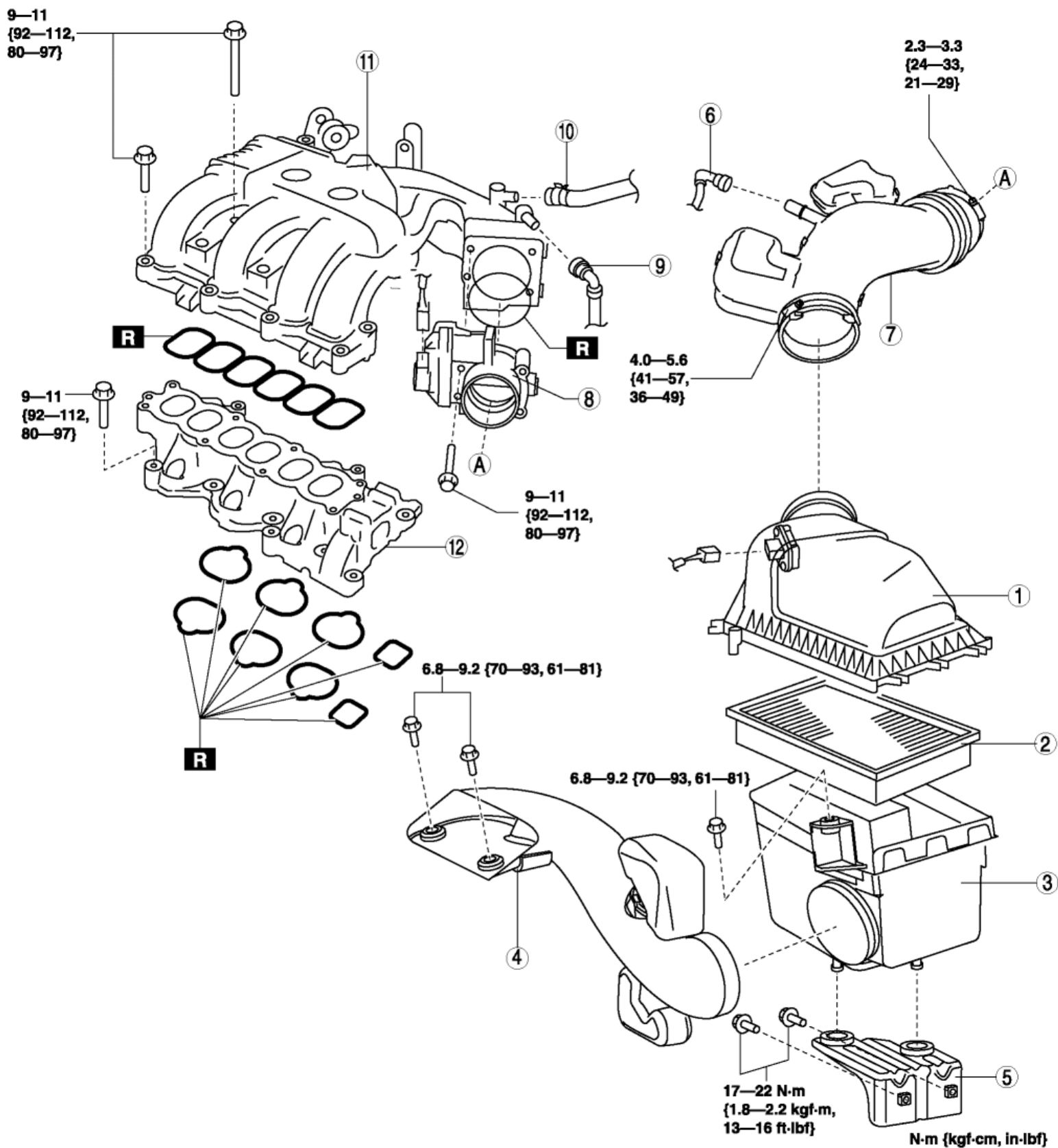
2012 - Mazda6 - Engine

INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION [MZI 3.7 V6]

WARNING:

- When the engine and intake-air system are hot, they can badly burn. Turn off the engine and wait until they are cool before removing the intake-air system.
- Fuel vapor is hazardous. It can easily ignite, causing serious injury and damage. Always keep sparks and flames away from fuel.
- Fuel line spills and leakage are dangerous. Fuel can ignite and cause serious injuries or death and damage. Fuel can also irritate skin and eyes. To prevent this, always complete the "Fuel Line Safety Procedure".

1. Complete the "BEFORE SERVICE PRECAUTION". (See [BEFORE SERVICE PRECAUTION \[MZI 3.7 V6\]](#).)
2. Remove the battery. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
3. Remove the engine cover. (See [ENGINE COVER REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
4. Disconnect the wiring harness.
5. Remove in the order indicated in the table.
6. Install in the reverse order of removal.
7. Complete the "AFTER SERVICE PRECAUTION". (See [AFTER SERVICE PRECAUTION \[MZI 3.7 V6\]](#).)

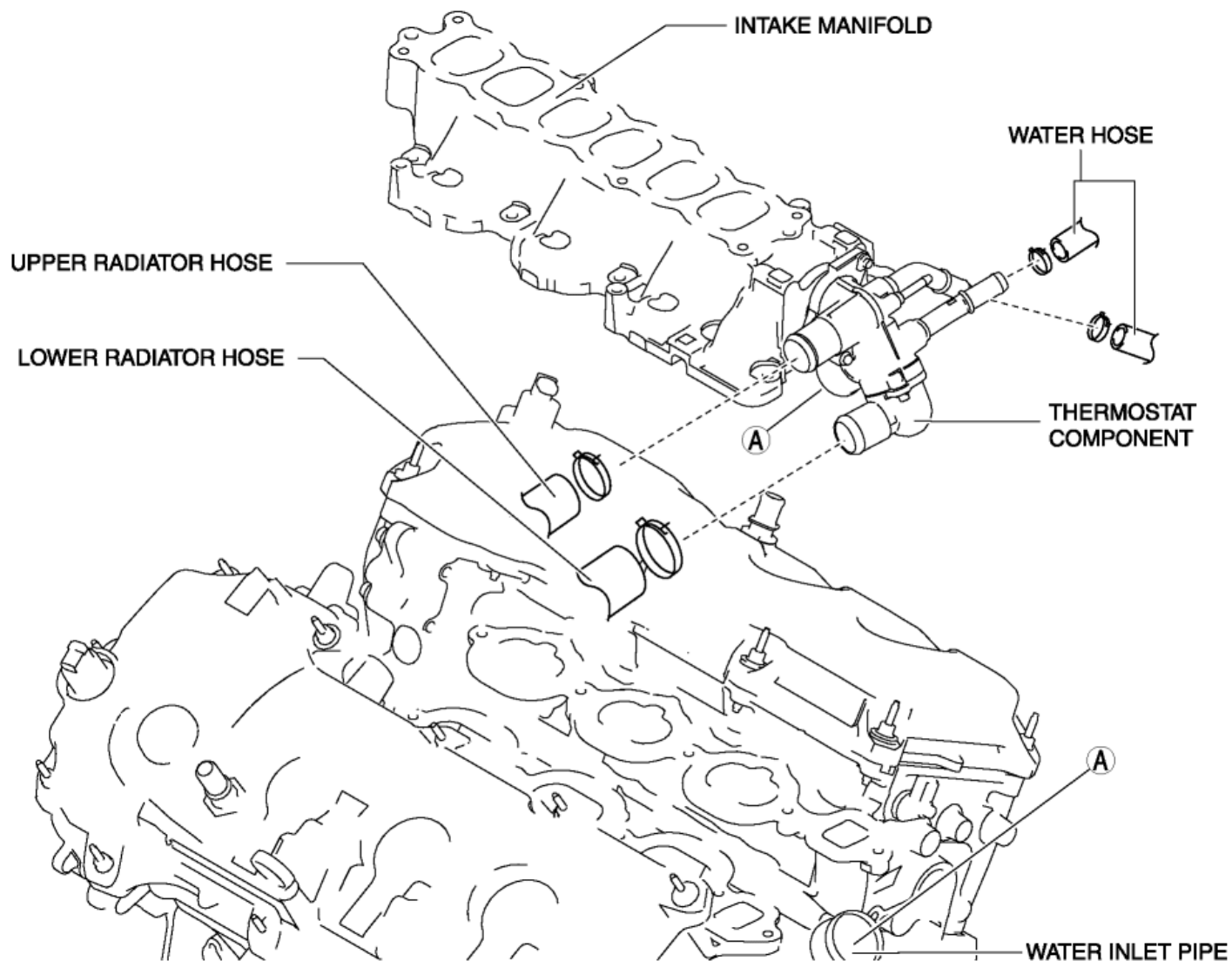


- | | |
|---|---------------------|
| 1 | Air cleaner cover |
| 2 | Air cleaner element |
| 3 | Air cleaner case |

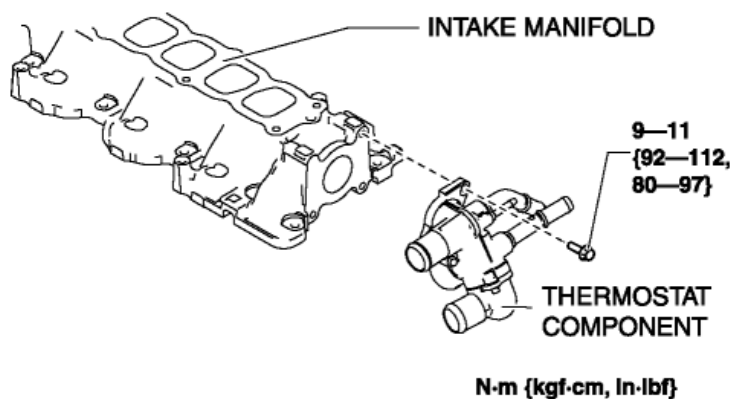
4	Fresh-air duct (See Fresh-Air Duct Installation Note.)
5	Air cleaner bracket
6	Ventilation hose (See QUICK RELEASE CONNECTOR (EMISSION SYSTEM) REMOVAL/ INSTALLATION [MZI 3.7 V6] .)
7	Air hose
8	Throttle body
9	Vacuum hose (to purge solenoid valve) (See QUICK RELEASE CONNECTOR (EMISSION SYSTEM) REMOVAL/ INSTALLATION [MZI 3.7 V6] .)
10	Vacuum hose (to master back)
11	Dynamic chamber (See Dynamic Chamber Installation Note.)
12	Intake manifold (See Intake Manifold Removal Note.) (See Intake Manifold Installation Note.)

Intake Manifold Removal Note

1. Remove the fuel distribuor and fuel injector as a single unit. (See [FUEL INJECTOR REMOVAL/ INSTALLATION \[MZI 3.7 V6\] .](#))
2. Drain the engine coolant. (See [ENGINE COOLANT REPLACEMENT \[MZI 3.7 V6\] .](#))
3. Disconnect the upper radiator hose.

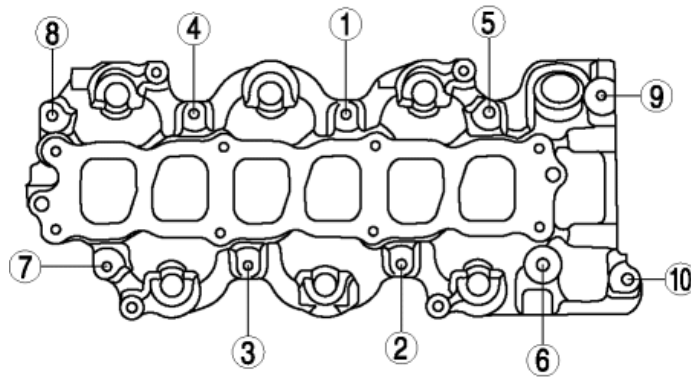


4. Disconnect the lower radiator hose.
5. Disconnect the two water hose from the thermostat component.
6. Disconnect the thermostat component side of the water inlet pipe which is under the intake manifold.
7. Remove the intake manifold and thermostat component as a single unit.
8. Remove the thermostat component from the intake manifold.



Intake Manifold Installation Note

1. Tighten the intake manifold installation bolts in the order shown.

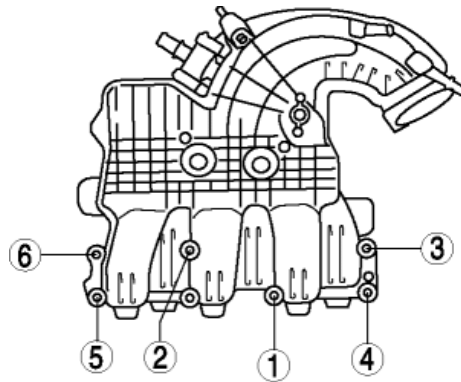


Intake manifold installation bolt tightening torque

- 9—11 N·m {92—112 kgf·cm, 80—97 in·lbf}

Dynamic Chamber Installation Note

1. Tighten the dynamic chamber installation bolts in the order shown.



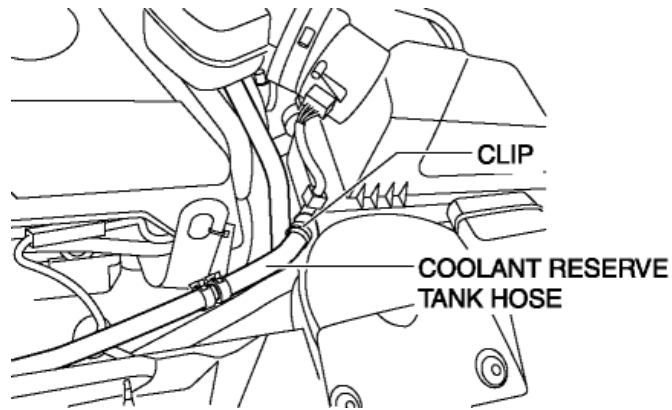
Dynamic chamber installation bolt tightening torque

- 9—11 N·m {92—112 kgf·cm, 80—97 in·lbf}

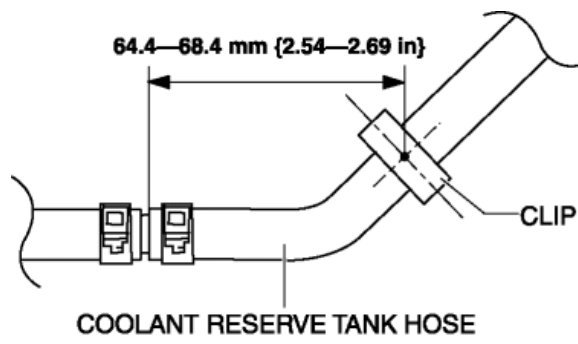
Fresh-Air Duct Installation Note

CAUTION:

- If the coolant reserve tank hose is installed to the clips at the wrong locations, the hose may contact other parts and be damaged. When reinstalling the coolant reserve tank hose to the clips, install it to the original locations according to the following procedure.



1. Install the coolant reserve tank hose to the clips as shown in the figure.



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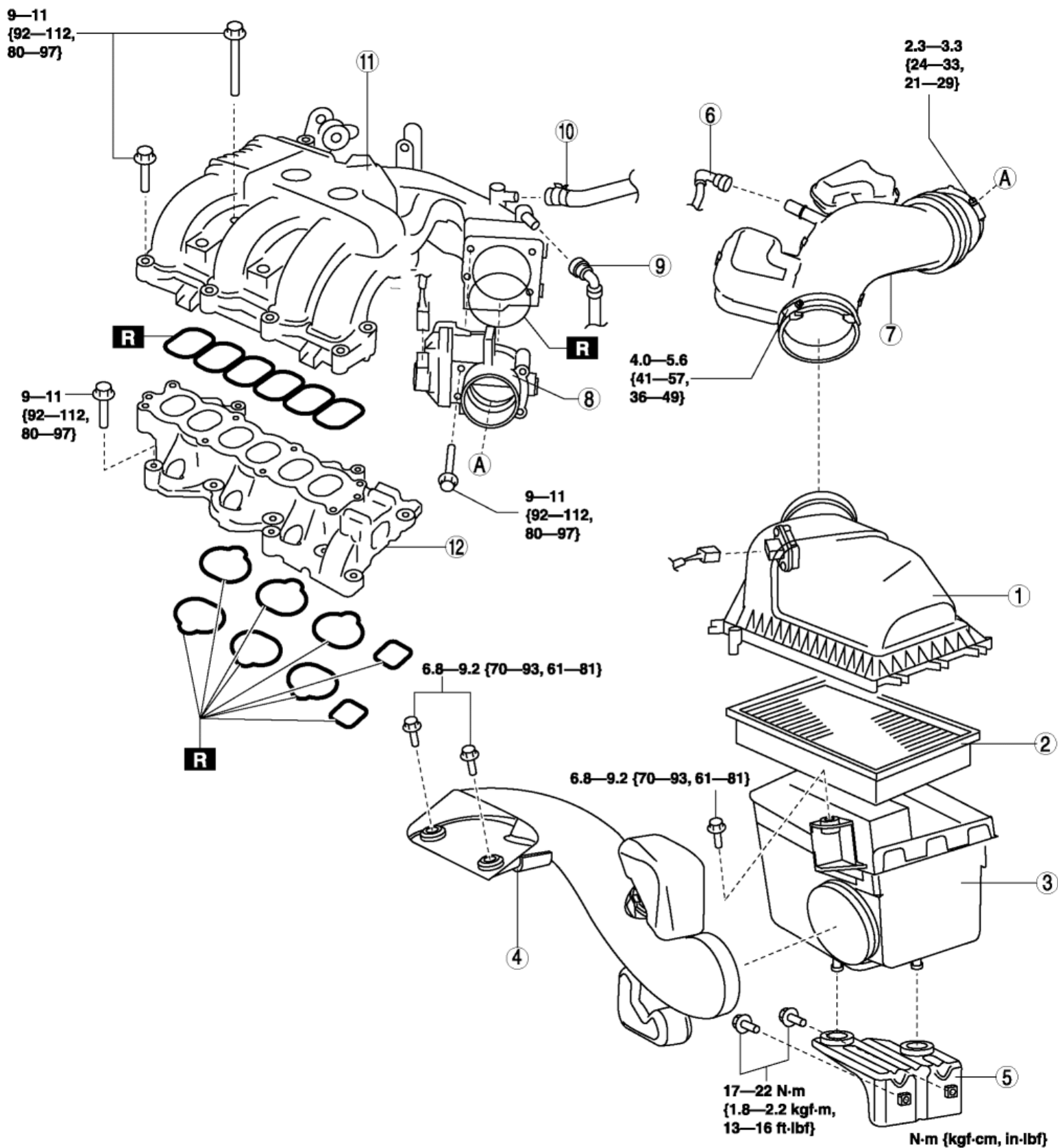
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1. Complete the "BEFORE SERVICE PRECAUTION". (See [BEFORE SERVICE PRECAUTION \[MZI 3.7 V6\]](#).)
2. Remove the battery. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
3. Remove the engine cover. (See [ENGINE COVER REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
4. Disconnect the wiring harness.
5. Remove in the order indicated in the table.
6. Install in the reverse order of removal.
7. Complete the "AFTER SERVICE PRECAUTION". (See [AFTER SERVICE PRECAUTION \[MZI 3.7 V6\]](#).)

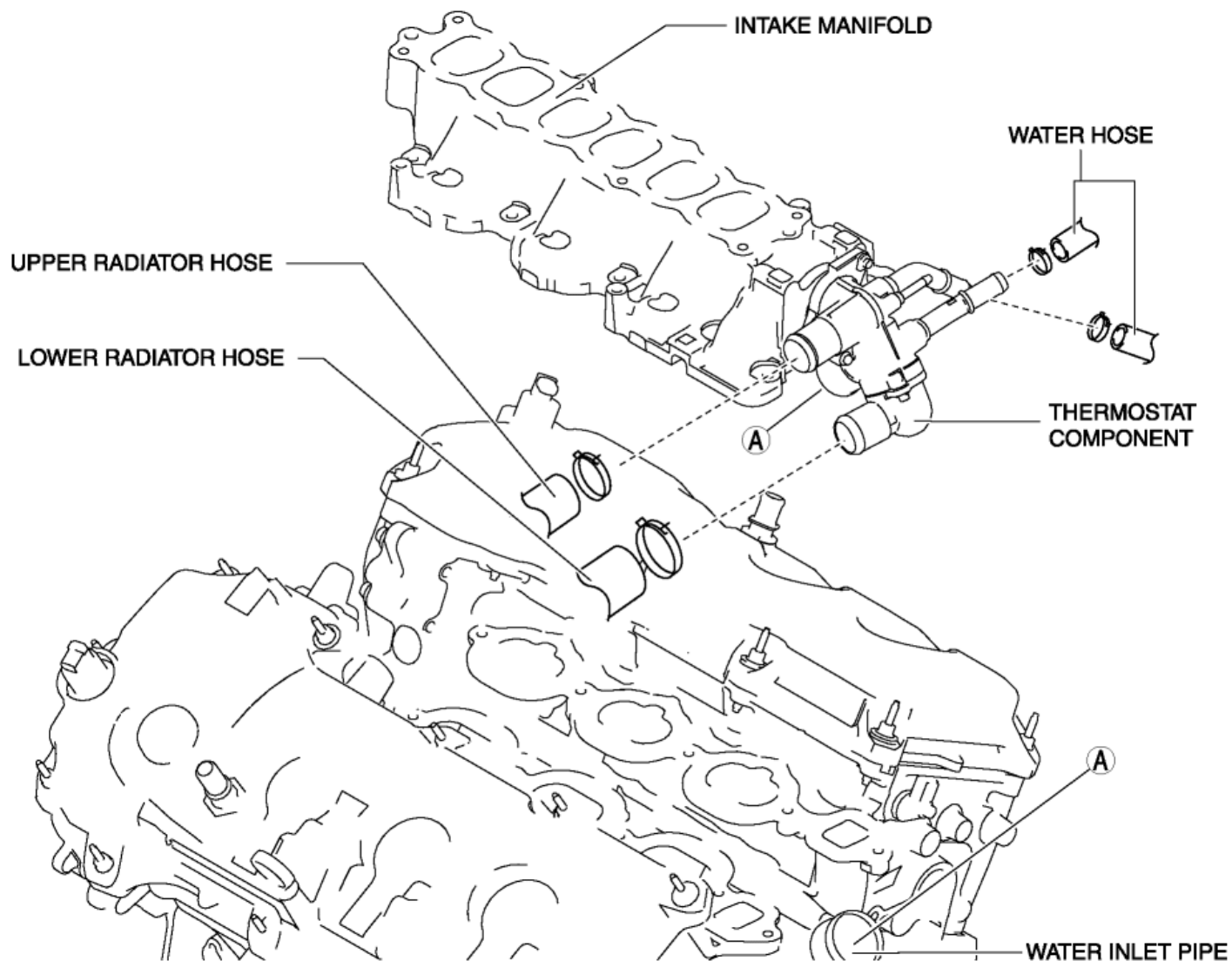


- | | |
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| 1 | Air cleaner cover |
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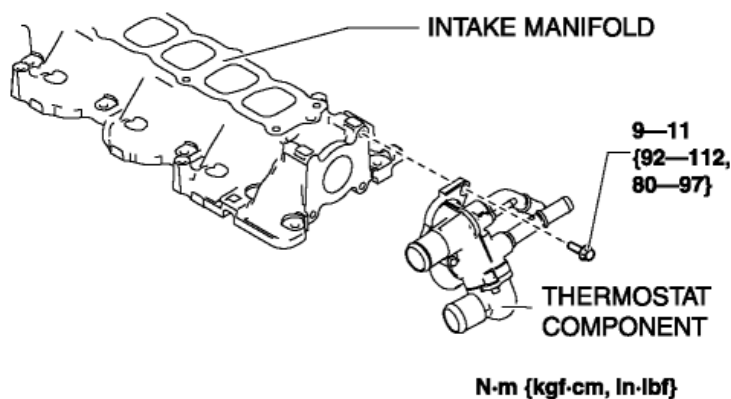
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12	Intake manifold (See Intake Manifold Removal Note.) (See Intake Manifold Installation Note.)

Intake Manifold Removal Note

1. Remove the fuel distribuor and fuel injector as a single unit. (See [FUEL INJECTOR REMOVAL/ INSTALLATION \[MZI 3.7 V6\] .](#))
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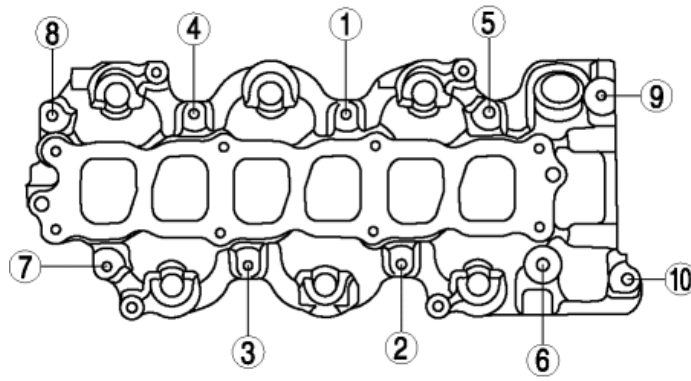


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Intake Manifold Installation Note

1. Tighten the intake manifold installation bolts in the order shown.

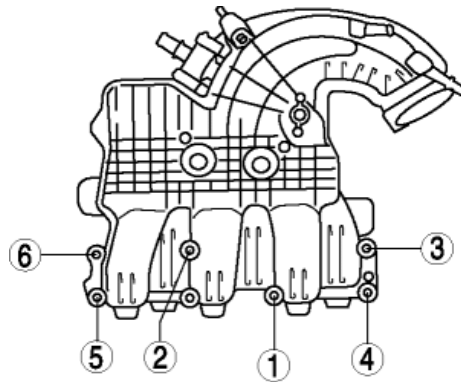


Intake manifold installation bolt tightening torque

- 9—11 N·m {92—112 kgf·cm, 80—97 in·lbf}

Dynamic Chamber Installation Note

1. Tighten the dynamic chamber installation bolts in the order shown.



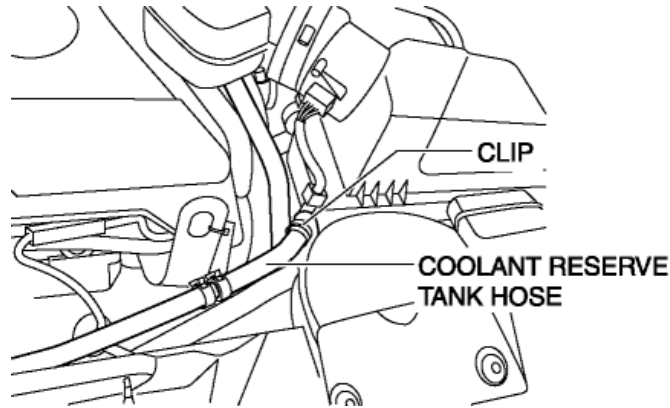
Dynamic chamber installation bolt tightening torque

- 9—11 N·m {92—112 kgf·cm, 80—97 in·lbf}

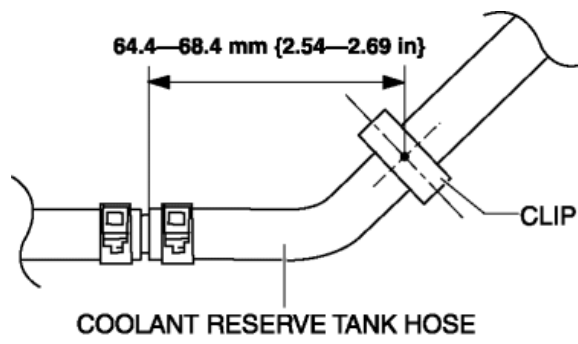
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