

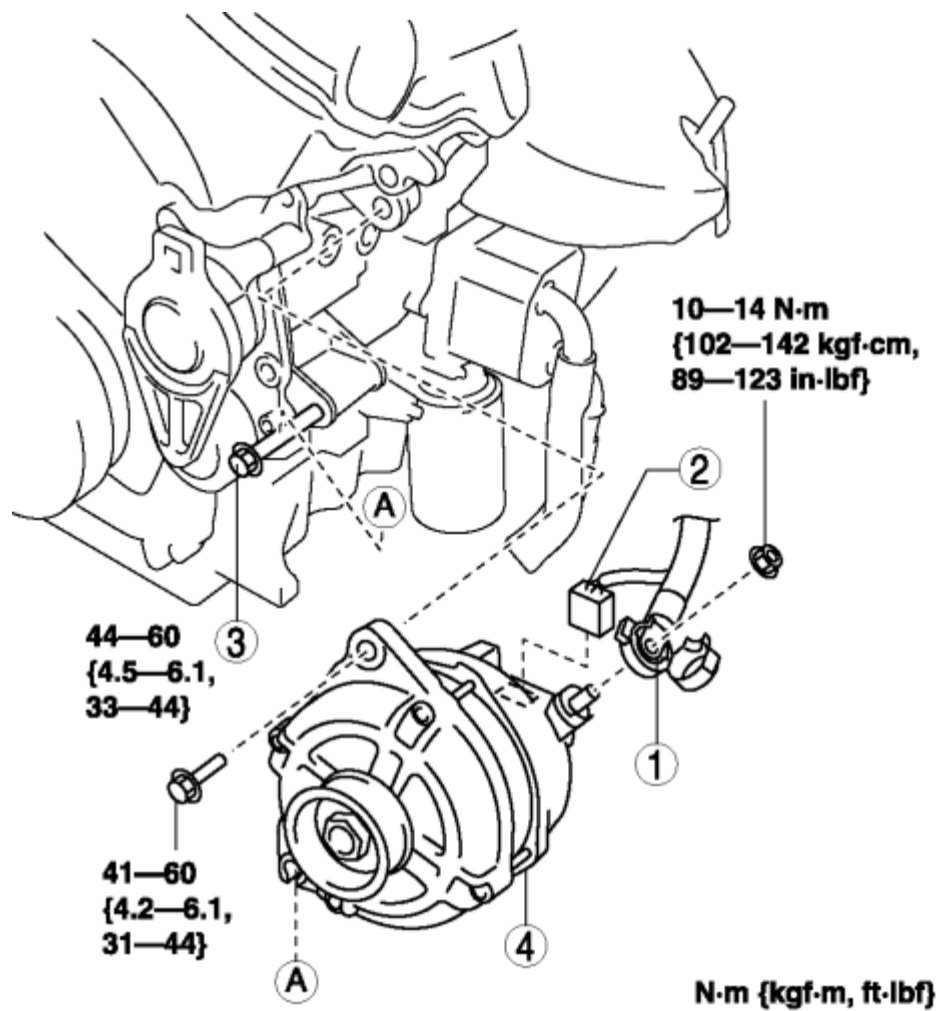
2012 - Mazda6 - Engine

GENERATOR REMOVAL/ INSTALLATION [MZI 3.7 V6]

WARNING:

- Remove and install all parts when the engine is cold, otherwise they can cause severe burns or serious injury.
- When the battery cables are connected, touching the vehicle body with generator terminal B will generate sparks. This can cause personal injury, fire, and damage to the electrical components. Always disconnect the negative battery cable before performing the following operation.

1. Disconnect the negative battery cable.
2. Drain the engine coolant. (See [ENGINE COOLANT REPLACEMENT \[MZI 3.7 V6\]](#).)
3. Remove the engine cover. (See [ENGINE COVER REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
4. Remove the air cleaner and fresh air duct component. (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
5. Remove the cooling fan component. (See [COOLING FAN MOTOR REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
6. Remove the generator and A/C drive belt. (See [DRIVE BELT REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
7. Remove the A/C compressor with the pipes still connected. Position the A/C compressor out of the way. (See [A/ C COMPRESSOR REMOVAL/ INSTALLATION](#).)
8. Remove in the order indicated in the table.
9. Install in the reverse order of removal.
10. Refill the engine coolant. (See [ENGINE COOLANT REPLACEMENT \[MZI 3.7 V6\]](#).)
11. Inspect for engine coolant leakage. (See [ENGINE COOLANT LEAKAGE INSPECTION \[MZI 3.7 V6\]](#).)



1 Terminal B cable

2 Generator connector

3 Generator lower bolt

(See [Generator Lower Bolt Removal Note.](#))

4 Generator

(See [Generator Removal Note.](#))

(See [Generator Installation Note.](#))

Generator Lower Bolt Removal Note

NOTE:

- The generator lower bolt cannot be fully removed from the engine because it contacts the body frame. However, the generator can be removed/installed without fully removing the

lower bolt because there is a notch at the lower bolt installation part of the generator.



1. Fully loosen the generator lower bolt.

Generator Removal Note

1. To prevent damage to the radiator core, protect it by covering the radiator surface with cardboard.
2. Remove the generator from above the engine compartment.

Generator Installation Note

1. Tighten the upper and lower bolts temporarily.
2. Tighten the upper bolt to the specified tightening torque.
3. Tighten the lower bolt to the specified tightening torque.

[< Previous](#) [Next >](#)

[Back to Top](#)

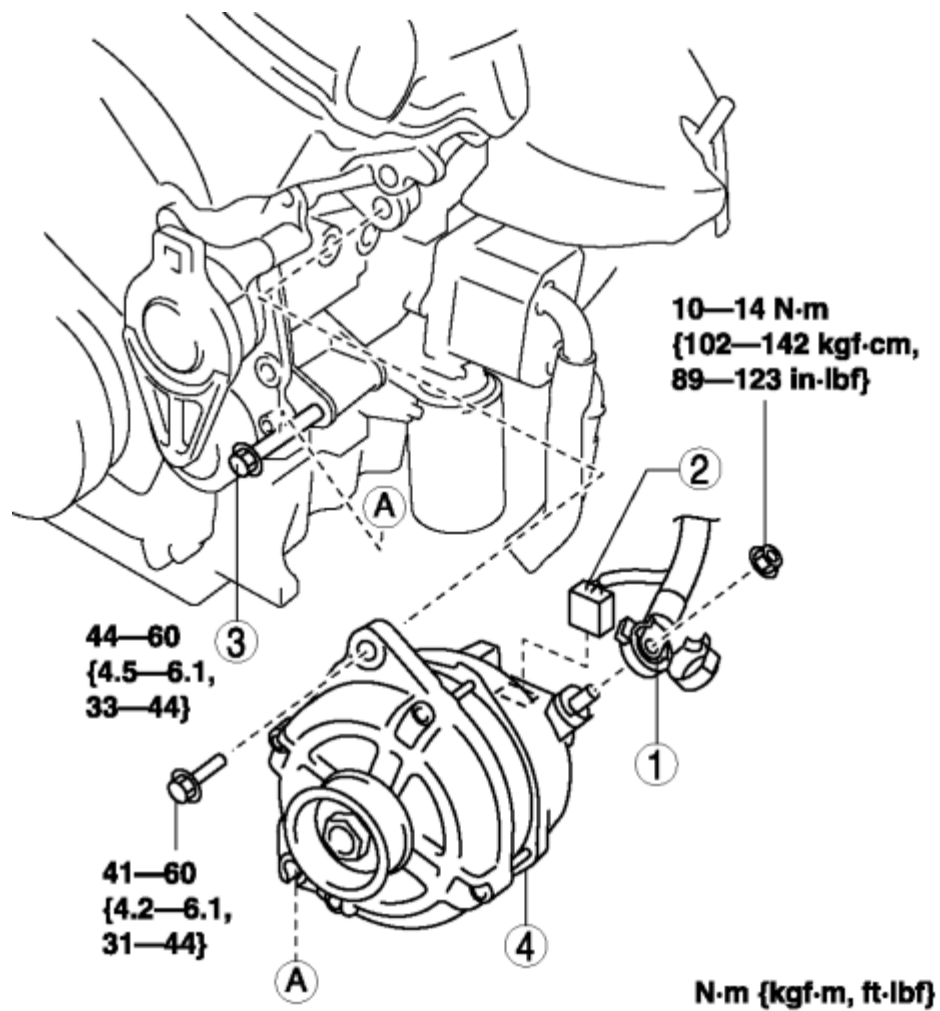
2012 - Mazda6 - Engine

GENERATOR REMOVAL/ INSTALLATION [MZI 3.7 V6]

WARNING:

- Remove and install all parts when the engine is cold, otherwise they can cause severe burns or serious injury.
- When the battery cables are connected, touching the vehicle body with generator terminal B will generate sparks. This can cause personal injury, fire, and damage to the electrical components. Always disconnect the negative battery cable before performing the following operation.

1. Disconnect the negative battery cable.
2. Drain the engine coolant. (See [ENGINE COOLANT REPLACEMENT \[MZI 3.7 V6\]](#).)
3. Remove the engine cover. (See [ENGINE COVER REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
4. Remove the air cleaner and fresh air duct component. (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
5. Remove the cooling fan component. (See [COOLING FAN MOTOR REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
6. Remove the generator and A/C drive belt. (See [DRIVE BELT REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)
7. Remove the A/C compressor with the pipes still connected. Position the A/C compressor out of the way. (See [A/ C COMPRESSOR REMOVAL/ INSTALLATION](#).)
8. Remove in the order indicated in the table.
9. Install in the reverse order of removal.
10. Refill the engine coolant. (See [ENGINE COOLANT REPLACEMENT \[MZI 3.7 V6\]](#).)
11. Inspect for engine coolant leakage. (See [ENGINE COOLANT LEAKAGE INSPECTION \[MZI 3.7 V6\]](#).)



1 Terminal B cable

2 Generator connector

3 Generator lower bolt

(See [Generator Lower Bolt Removal Note.](#))

4 Generator

(See [Generator Removal Note.](#))

(See [Generator Installation Note.](#))

Generator Lower Bolt Removal Note

NOTE:

- The generator lower bolt cannot be fully removed from the engine because it contacts the body frame. However, the generator can be removed/installed without fully removing the

lower bolt because there is a notch at the lower bolt installation part of the generator.



1. Fully loosen the generator lower bolt.

Generator Removal Note

1. To prevent damage to the radiator core, protect it by covering the radiator surface with cardboard.
2. Remove the generator from above the engine compartment.

Generator Installation Note

1. Tighten the upper and lower bolts temporarily.
2. Tighten the upper bolt to the specified tightening torque.
3. Tighten the lower bolt to the specified tightening torque.

[< Previous](#) [Next >](#)

[Back to Top](#)