

MAGNETIC CLUTCH DISASSEMBLY/ASSEMBLY [MANUAL AIR CONDITIONER]

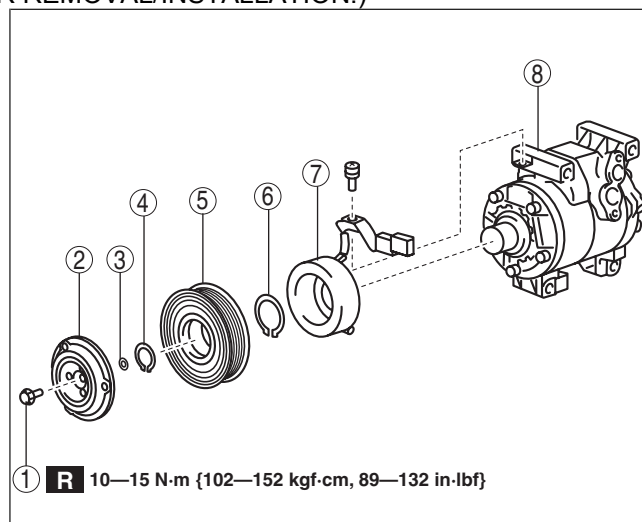
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Magnetic Clutch is Disassembled/Assembled with A/C Compressor Removed from Vehicle

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Discharge the refrigerant. (See REFRIGERANT CHARGING.)
3. Remove the front under cover No.2. (See FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.)
4. Remove the front splash shield No.1 (RH). (SKYACTIV-D 2.2) (See SPLASH SHIELD REMOVAL/INSTALLATION.)
5. Remove the drive belt. (See DRIVE BELT REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)(See DRIVE BELT REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
6. Remove the A/C compressor. (See A/C COMPRESSOR REMOVAL/INSTALLATION.)
7. Disassemble in the order indicated in the table.

1	Bolt (See Bolt removal/installation note.)
2	Pressure plate
3	Shim (See Shim installation note.)
4	Snap ring (See Snap ring removal/installation note.)
5	A/C compressor pulley
6	Snap ring (See Snap ring removal/installation note.)
7	Stator
8	A/C compressor body

8. Assemble in the reverse order of disassembly.
9. Adjust the magnetic clutch clearance. (See MAGNETIC CLUTCH ADJUSTMENT [MANUAL AIR CONDITIONER].)



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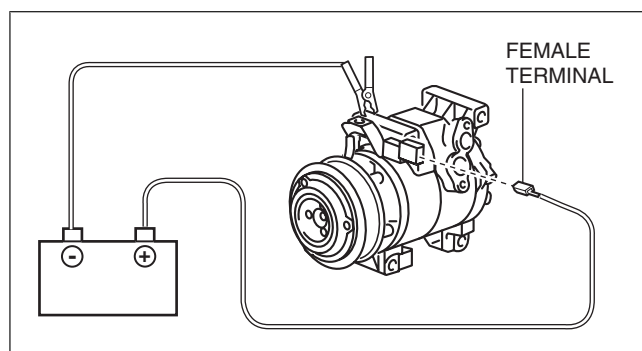
Bolt removal/installation note

1. When removing or installing the bolt, lock the A/C compressor pulley against rotation using the following procedure.

Caution

- When connecting the positive battery cable to the magnetic clutch connector, use a cable with a female terminal of the correct size. Otherwise, load will be applied to the terminal, resulting in deformation or damage, and poor contact. In addition, the positive battery cable could disconnect from the connector resulting in a short circuit.

- (1) Apply battery positive voltage to the magnetic clutch terminal and connect the A/C compressor body to the ground.



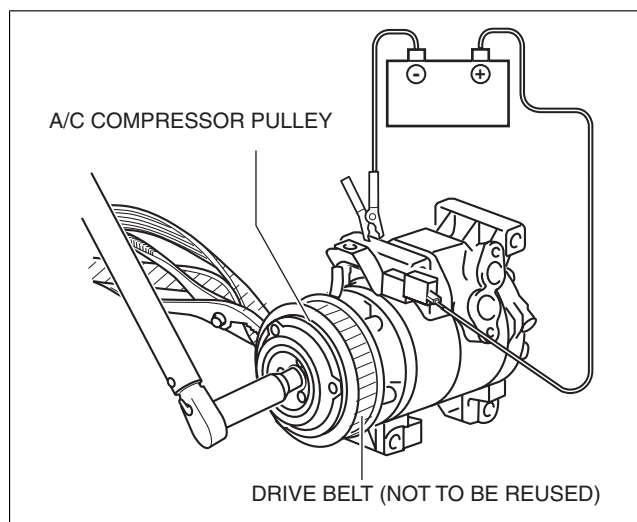
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- (2) Wrap the drive belt, which is no longer of use, tightly around the A/C compressor pulley.
- (3) Hold the drive belt in place with pliers.
- (4) Remove/installation the bolt.

Tightening torque

10—15 N·m {102 —152 kgf·cm, 89 — 132 in·lbf}

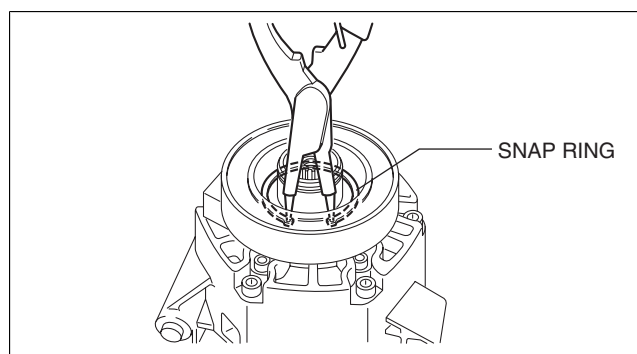
2. When installing a new A/C compressor body, replace the recommended bolt.



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Snap ring removal/installation note

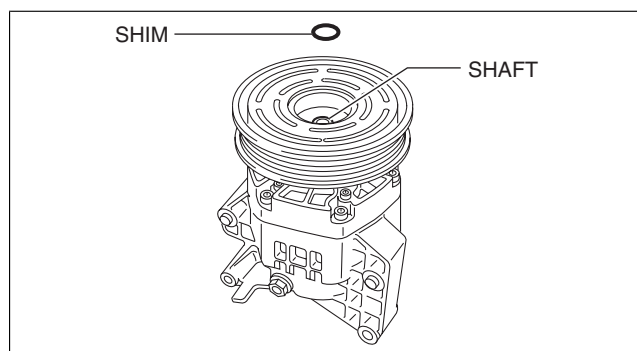
1. Remove/install the snap ring using a snap ring pliers.



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Shim installation note

1. First, insert the **1mm (0.039 in)** thick shim into the shaft.



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Magnetic Clutch is Disassembled/Assembled with A/C Compressor Equipped to Vehicle

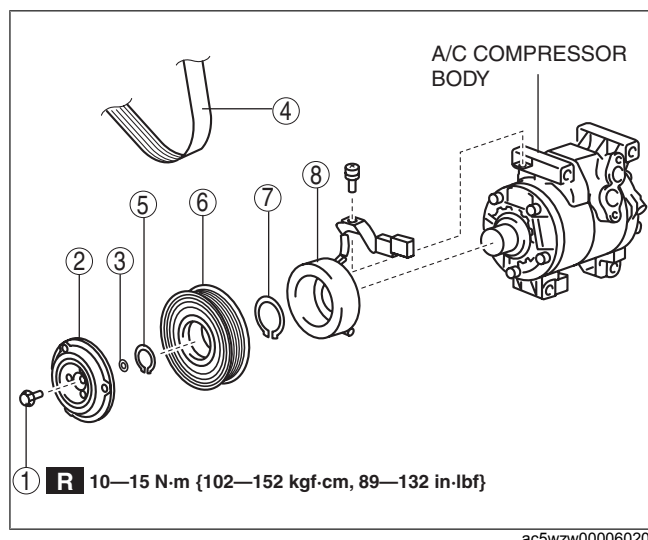
Warning

- If A/C compressor operation is performed, do not start the engine. Otherwise, the drive belt could get caught and cause an accident.

1. Remove the front tire (RH). (See GENERAL PROCEDURES (FRONT AND REAR AXLES).)
2. Remove the front splash shield No.1 (RH). (See SPLASH SHIELD REMOVAL/INSTALLATION.)
3. Bend back the front side of the front over fender (RH). (See FRONT OVER FENDER REMOVAL/INSTALLATION.)
4. Bend back the front side of the mudguard (RH). (See MUDGUARD REMOVAL/INSTALLATION.)
5. Remove the front under cover No.2. (See FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.)

6. Disassemble in the order indicated in the table.

1	Bolt (See Bolt removal/installation note.)
2	Pressure plate
3	Shim (See Shim installation note.)
4	Drive Belt (See DRIVE BELT REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DRIVE BELT REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
5	Snap ring (See Snap Ring Removal/Installation Note.)
6	A/C compressor pulley
7	Snap ring (See Snap Ring Removal/Installation Note.)
8	Stator (See Stator removal/installation note.)



7. Assemble in the reverse order of disassembly.

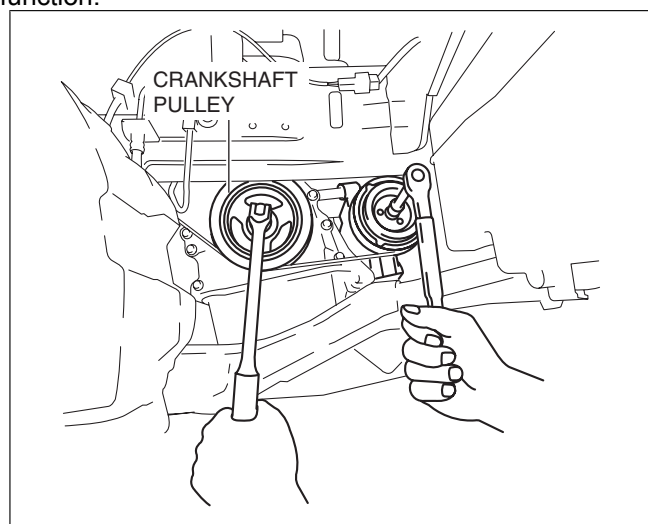
8. Adjust the magnetic clutch clearance. (See MAGNETIC CLUTCH ADJUSTMENT [MANUAL AIR CONDITIONER].)

Bolt removal/installation note

- When removing or installing the bolt, lock the A/C compressor pulley against rotation using the following procedure.
 - Connect the M-MDS to the DLC-2.
 - After the vehicle is identified, select the following items from the initialization screen of the M-MDS.
 - Select "DataLogger".
 - Select "Modules".
 - Select "PCM".
 - Select "ACCS".
 - Turn the A/C relay on using the "ACCS" simulation function.
- Secure the crankshaft pulley.

Note

- If the crankshaft pulley is rotated with the magnetic clutch turned on, the magnetic clutch turns off. If the bolt is rotated, fix it so that the crankshaft pulley does not rotate.



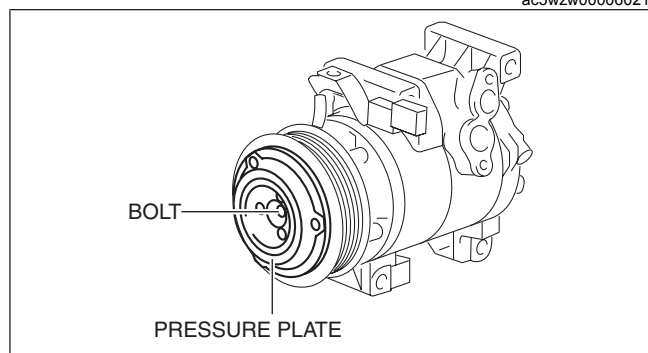
3. Remove the bolt with the pressure plate secured.

Tightening torque

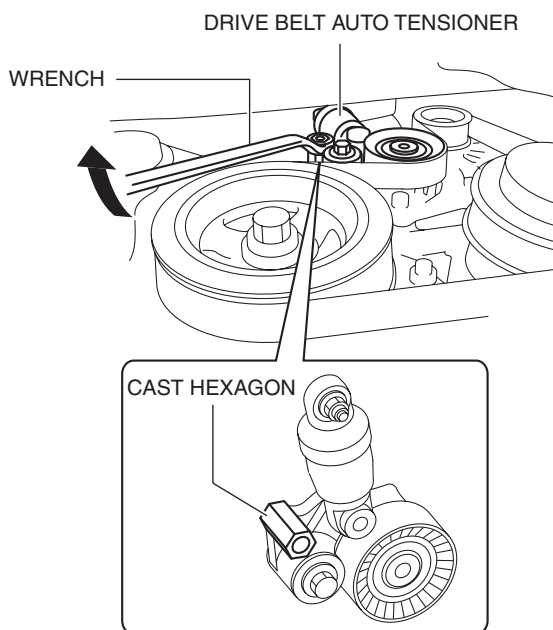
10–15 N·m {102–152 kgf·cm, 89–132 in·lbf}

Note

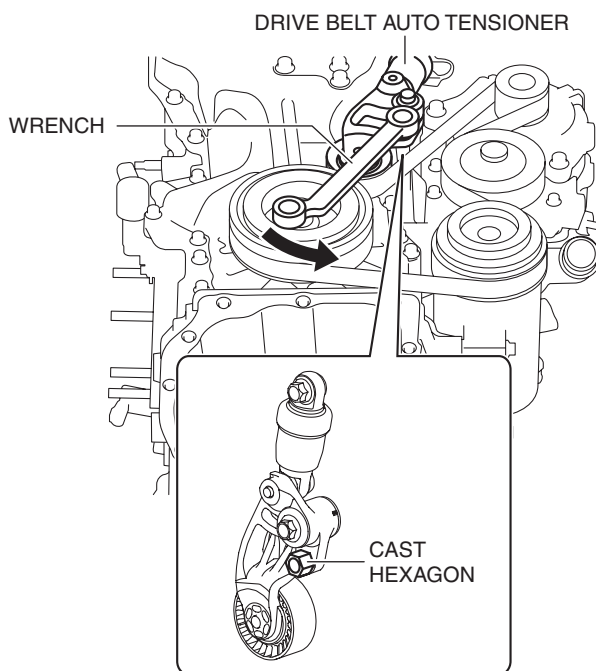
- When turning the bolt, if the pulley slips with little friction on the drive belt and A/C compressor pulley, attach a wrench to the hexagon of the drive belt auto tensioner, slowly turn the wrench in the direction shown in the figure, and increase the tension on the drive belt.



SKYACTIV-G 2.0, SKYACTIV-G 2.5



SKYACTIV-D 2.2

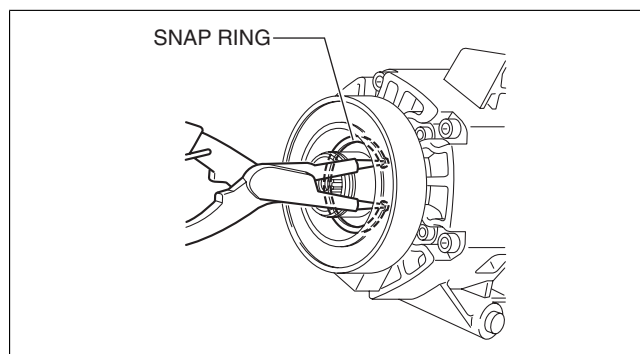


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4. Turn the A/C relay off using the "ACCS" simulation function.

Snap Ring Removal/Installation Note

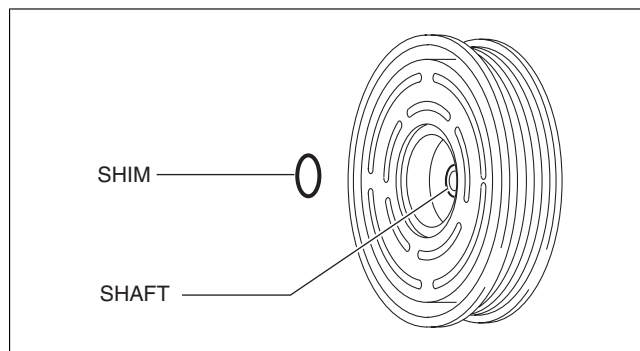
1. Remove/install the snap ring using a snap ring pliers.



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Shim installation note

1. First, insert the **1mm (0.039 in)** thick shim into the shaft.

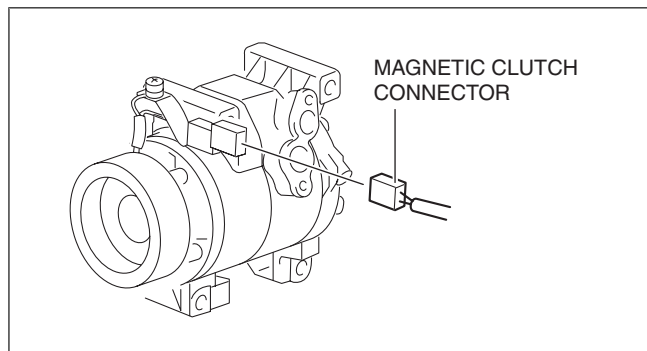


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Stator removal/installation note

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)

2. Disconnect the magnetic clutch connector.

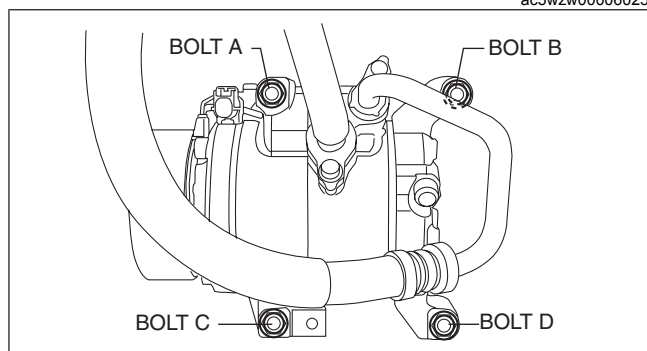


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3. Remove the bolts A, B, and C.
4. Loosen bolt D approx. 2 mm {0.08 in}.

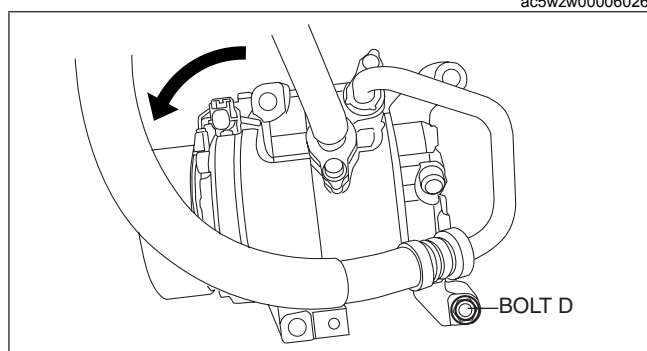
Tightening torque

19—25 N·m {2.0—2.5 kgf·m, 15—18 ft·lbf}



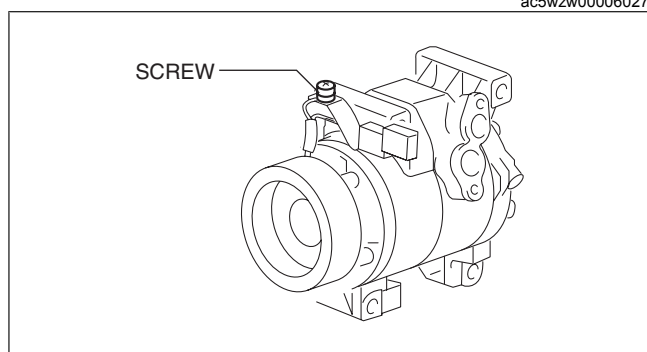
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5. Tilt the A/C compressor centered around bolt D.



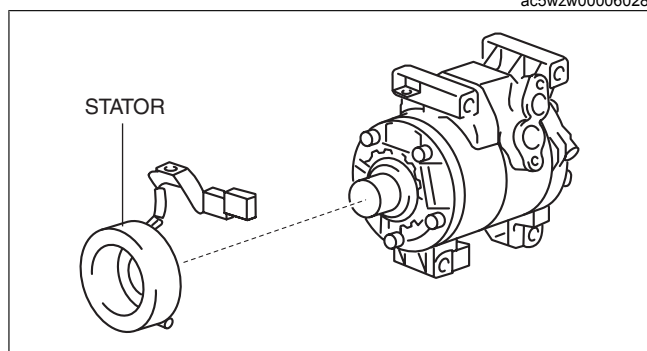
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6. Remove the screw.



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7. Remove the stator.



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