

07-11 BASIC SYSTEM

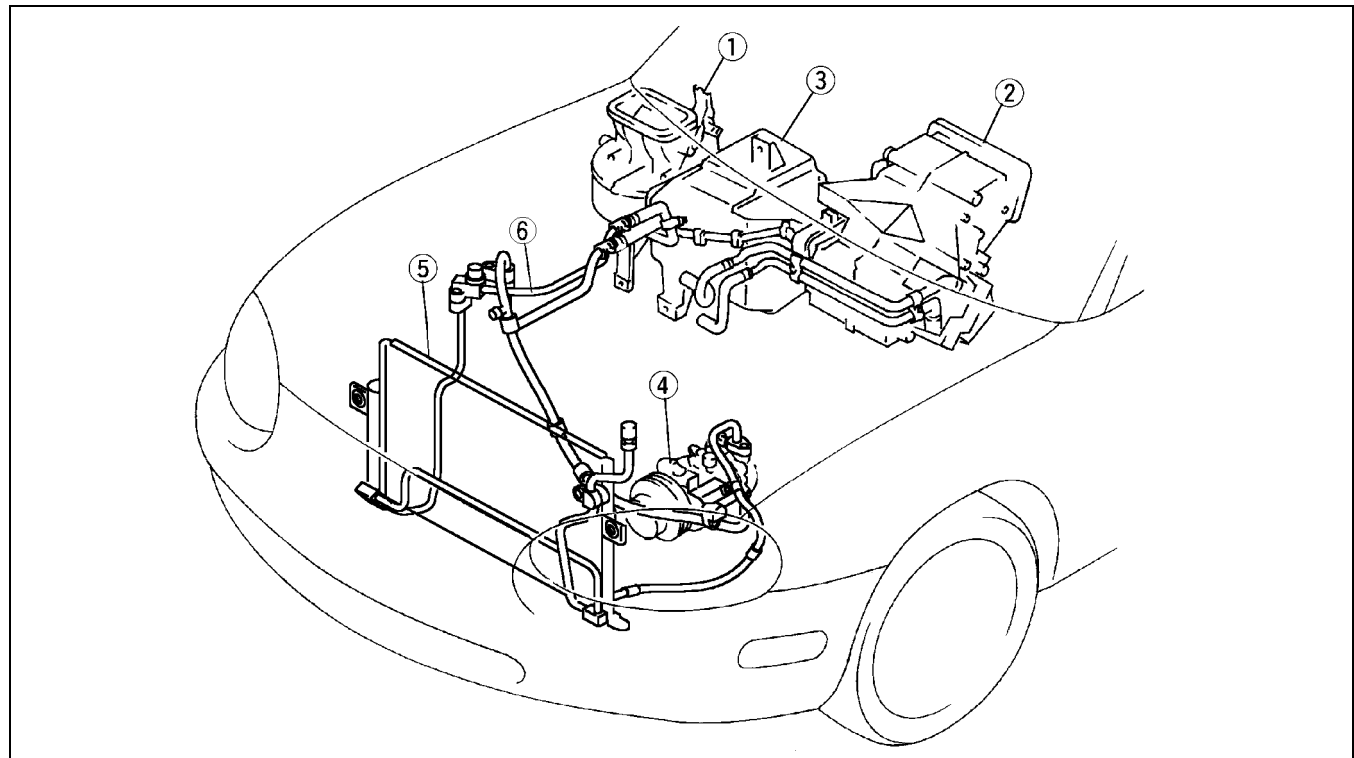
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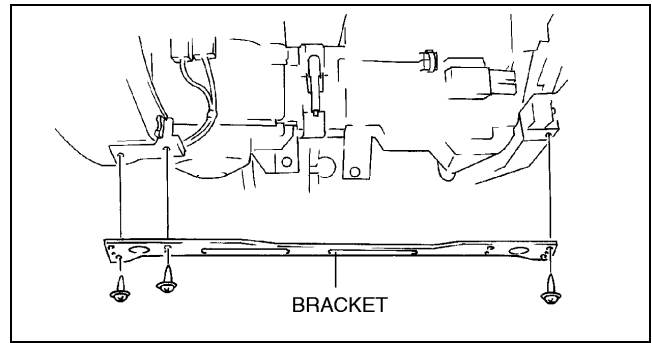
1	Blower unit (See 07-11-2 BLOWER UNIT REMOVAL/ INSTALLATION) (See 07-11-3 BLOWER UNIT DISASSEMBLY/ ASSEMBLY)
2	Heater unit (See 07-11-5 HEATER UNIT REMOVAL/ INSTALLATION) (See 07-11-6 HEATER UNIT DISASSEMBLY/ ASSEMBLY)
3	Cooling unit (See 07-11-3 COOLING UNIT REMOVAL/ INSTALLATION) (See 07-11-4 COOLING UNIT DISASSEMBLY/ ASSEMBLY)

4	A/C compressor (See 07-11-6 A/C COMPRESSOR REMOVAL/ INSTALLATION)
5	Condenser (See 07-11-7 CONDENSER REMOVAL/ INSTALLATION) (See 07-11-7 CONDENSER INSPECTION)
6	Refrigerant lines (See 07-11-8 REFRIGERANT LINES REMOVAL/ INSTALLATION)

BLOWER UNIT REMOVAL/INSTALLATION

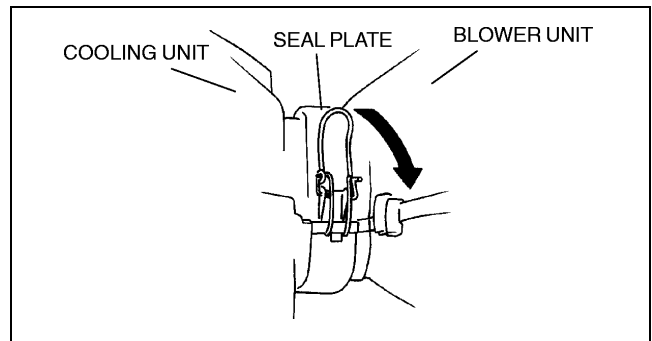
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1. Disconnect the negative battery cable.
2. Remove the glove compartment.
3. Remove the bracket.



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4. Remove the seal plate.

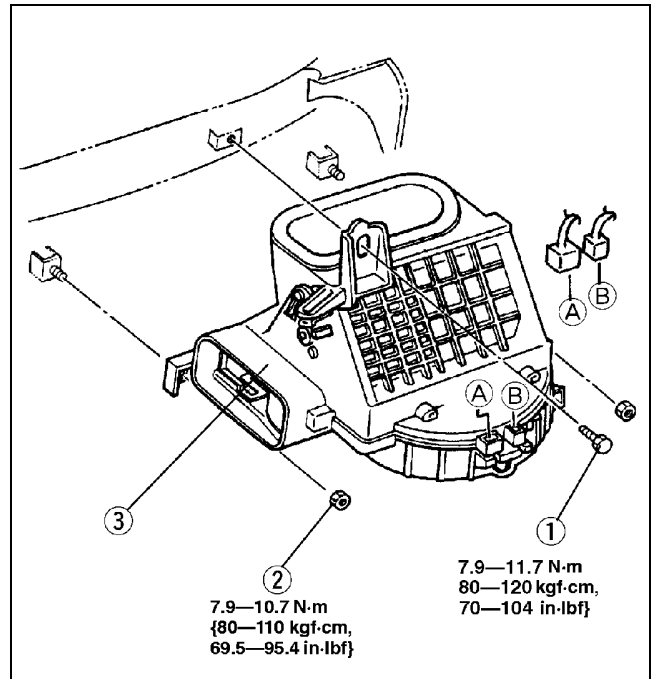


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5. Remove in the order indicated in the table.

1	Bolt
2	Nut
3	Blower unit

6. Install in the reverse order of removal.



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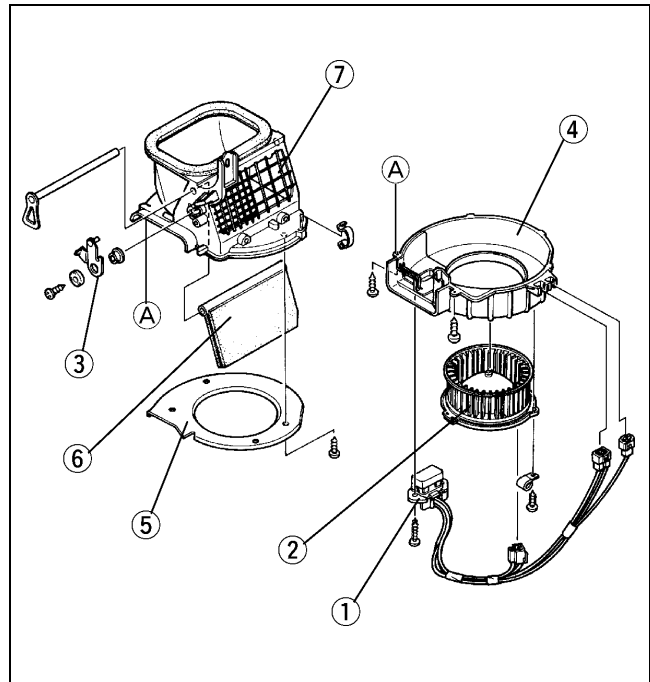
BLOWER UNIT DISASSEMBLY/ASSEMBLY

A5U071161140W02

1. Disassemble in the order indicated in the table.

1	Resistor
2	Blower motor
3	Air intake link
4	Case (bottom)
5	Air guider
6	Air intake door
7	Case (top)

2. Assemble in the reverse order of disassembly.



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COOLING UNIT REMOVAL/INSTALLATION

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1. Discharge the refrigerant from the system. (See 07-10-4 REFRIGERANT CHARGING.)
2. Disconnect the negative battery cable.
3. Remove the glove compartment.
4. Disconnect cooler pipe No.1 and No.2. (See 07-11-9 Refrigerant Lines Removal Note.) (See 07-11-10 Refrigerant Lines Installation Note.)

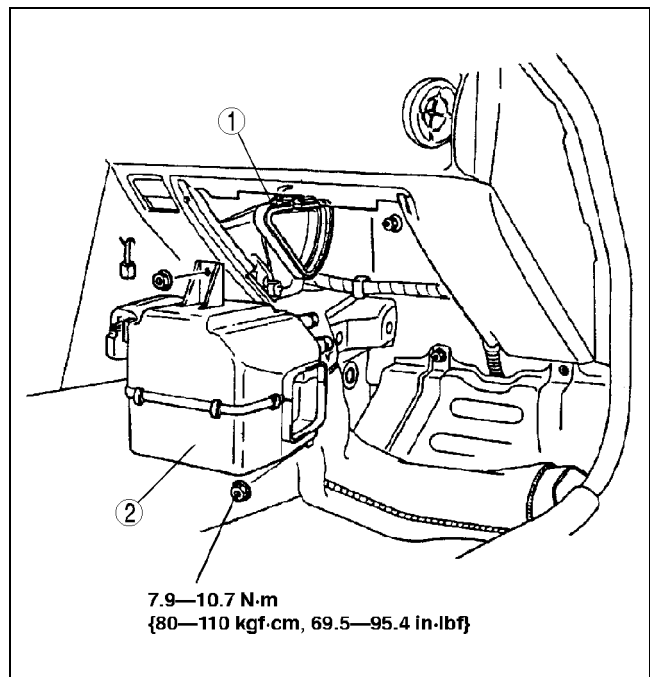
Caution

- If moisture or foreign material enters the refrigeration cycle, cooling ability will be lowered and abnormal noise will occur. Always immediately plug all open fittings after removing any refrigeration cycle parts to keep moisture or foreign material out of the cycle.

5. Remove in the order indicated in the table. Do not allow compressor oil to spill.

1	Seal plate
2	Cooling unit See 07-11-4 Cooling Unit Installation Note

6. Install in the reverse order of removal.
7. Perform refrigerant system performance test. (See 07-10-2 REFRIGERANT SYSTEM PERFORMANCE TEST.)



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Cooling Unit Installation Note

- When installing a new cooling unit, add DENSO OIL9 compressor oil into the refrigeration cycle.

Supplemental amount (approximate quantity)
40 ml {40 cc, 1.4 fl oz}

COOLING UNIT DISASSEMBLY/ASSEMBLY

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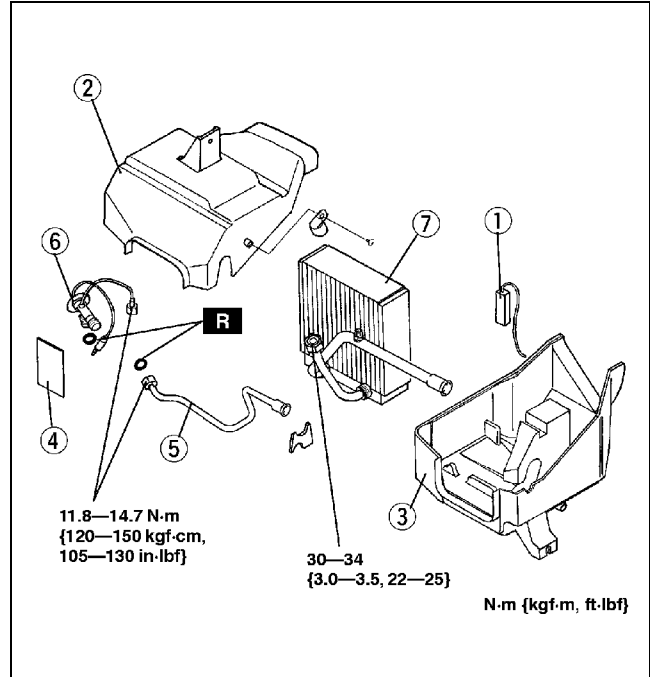
Caution

- If moisture of foreign material enters the refrigeration cycle, cooling ability will be lowered and abnormal noise will occur. Always immediately plug all open fittings after removing any refrigeration cycle parts to keep moisture or foreign material out of the cycle.

- Disassemble in the order indicated in the table.

1	Thermoswitch See 07-11-4 Thermoswitch Assembly Note
2	Case (top)
3	Case (bottom)
4	Tar patty
5	Pipe
6	Expansion valve See 07-11-4 Expansion Valve Assembly Note
7	Evaporator See 07-11-4 Evaporator Assembly Note

- Assemble in the reverse order of disassembly.



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Evaporator Assembly Note

- When installing a new evaporator, add DENSO OIL9 compressor oil into the refrigeration cycle.

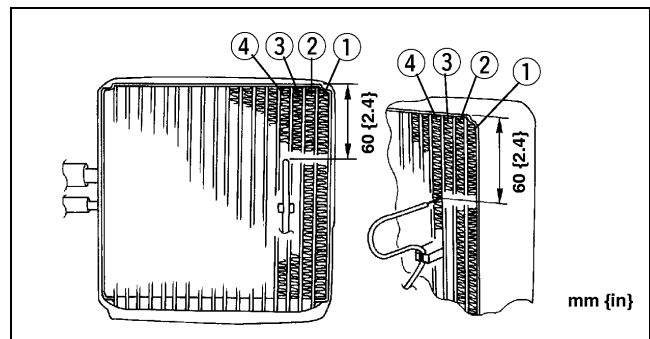
Supplemental amount (approximate quantity)
40 ml {40 cc, 1.4 fl oz}

Expansion Valve Assembly Note

- Apply compressor oil to the O-rings and connect the joints.
- Install the heat-sensing tube to its proper position.

Thermoswitch Assembly Note

- Insert the thermoswitch probe in location as shown in the figure.



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EVAPORATOR INSPECTION

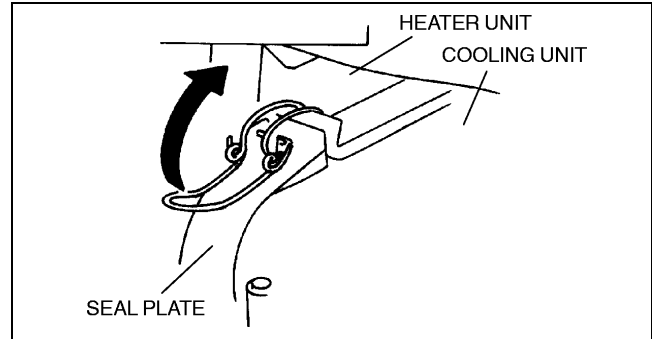
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1. Inspect for cracks, damage, and oil leakage. If any are found, replace the evaporator.
2. Inspect for bent fins.
 - If any are bent, use a flathead screwdriver to straighten them.

HEATER UNIT REMOVAL/INSTALLATION

A5U071161130W01

1. Disconnect the negative battery cable.
2. Drain the engine coolant. (See 01-12-2 ENGINE COOLANT REPLACEMENT.)
3. Remove the dashboard. (See 09-17-2 DASHBOARD REMOVAL/INSTALLATION.)
4. Remove the seal plate.

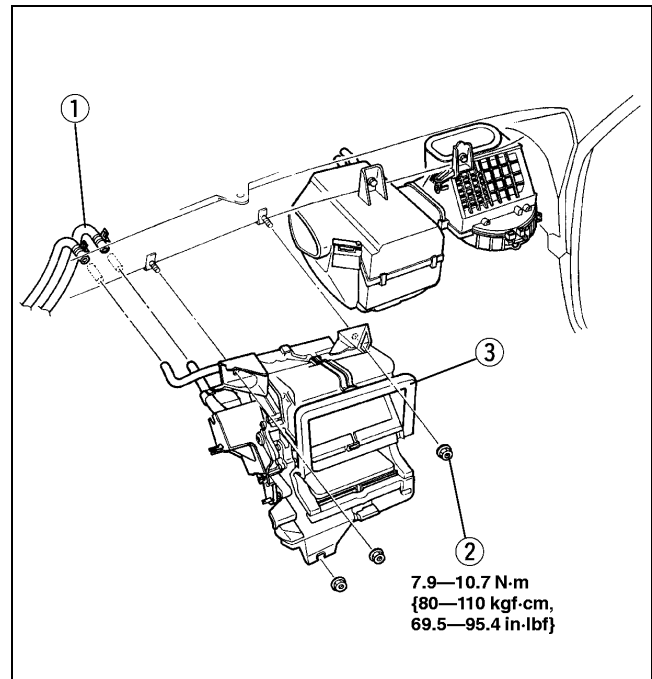


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5. Remove in the order indicated in the table.

1	Heater hose
2	Nut
3	Heater unit

6. Install in the reverse order of removal.
7. Refill the engine coolant. (See 01-12-2 ENGINE COOLANT REPLACEMENT.)



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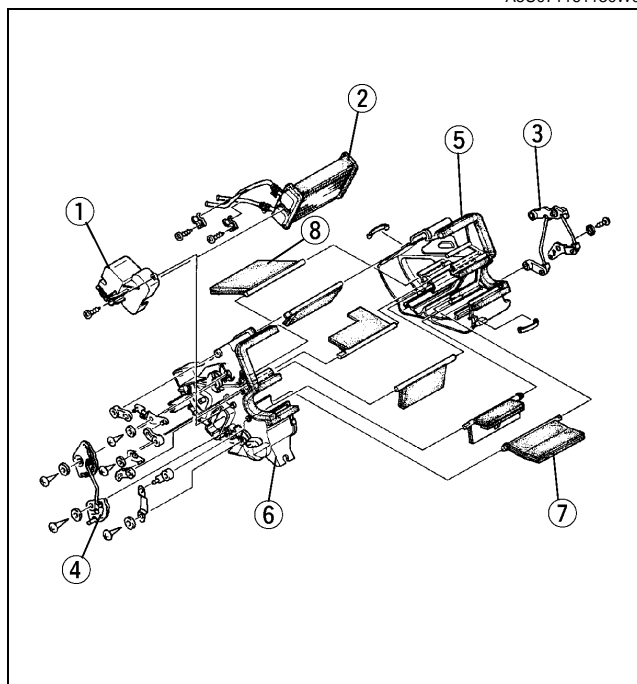
HEATER UNIT DISASSEMBLY/ASSEMBLY

A5U071161130W02

1. Disassemble in the order indicated in the table.

1	Cover
2	Heater core
3	Air mix link
4	Airflow mode link
5	Case (RH)
6	Case (LH)
7	Air mix door
8	Airflow mode door

2. Assemble in the reverse order of disassembly.



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HEATER CORE INSPECTION

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1. Inspect for cracks, damage, and coolant leakage.
 - If any are found, replace the heater core.
2. Inspect for bent fins.
 - If any are bent, use a flathead screwdriver to straighten them.
3. Verify that the heater core inlet and outlet are not distorted or damaged. Repair with pliers if necessary.

A/C COMPRESSOR REMOVAL/INSTALLATION

A5U071161450W01

1. Discharge the refrigerant from the system. (See 07–10–4 REFRIGERANT CHARGING.)
2. Disconnect the negative battery cable.
3. Remove the under cover.
4. Remove the drive belt (P/S+A/C).

Caution

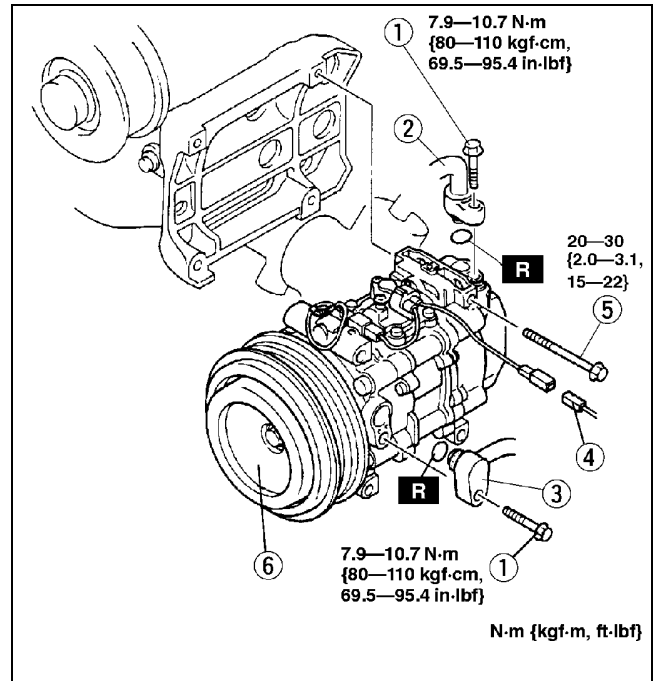
- If moisture or foreign material enters the refrigeration cycle, cooling ability will be lowered and abnormal noise will occur. Always immediately plug all open fittings after removing any refrigeration cycle parts to keep moisture or foreign material out of the cycle.

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5. Remove in the order indicated in the table. Do not allow compressor oil to spill.

1	Bolt
2	Flexible hose (HI) (See 07-11-9 Refrigerant Lines Removal Note) (See 07-11-10 Refrigerant Lines Installation Note)
3	Flexible hose (LO) (See 07-11-9 Refrigerant Lines Removal Note) (See 07-11-10 Refrigerant Lines Installation Note)
4	Connector
5	Bolt
6	A/C compressor (See 07-11-7 A/C Compressor Installation Note)

6. Install in the reverse order of removal.
 7. Adjust the drive belt (P/S+A/C). (See 01-10-4 DRIVE BELT ADJUSTMENT.)
 8. Perform refrigerant system performance test.
 (See 07-10-2 REFRIGERANT SYSTEM PERFORMANCE TEST.)



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A/C Compressor Installation Note

1. Remove the following amount of compressor oil from the new A/C compressor when replacing the A/C compressor.

Compressor oil to the removed (approximate quantity)

= 150 ml {150 cc, 5.07 fl oz} – [compressor oil from old A/C compressor + 15 ml {15 cc, 0.5 fl oz}]

CONDENSER INSPECTION

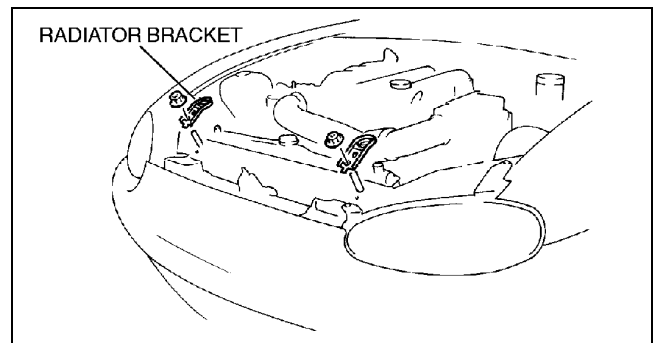
A5U071161480W01

- Inspect for cracks, damage, and oil leakage.
 - If any are found, replace the condenser.
- Inspect for fins clogged by dust.
 - If any are clogged, remove the dust from the fins.
- Inspect for bent fins.
 - If any are bent, use a flathead screwdriver to straighten them.

CONDENSER REMOVAL/INSTALLATION

A5U071161480W02

- Discharge the refrigerant from the system. (See 07-10-4 REFRIGERANT CHARGING.)
- Disconnect the negative battery cable.
- Remove the cooling fan. (See 01-12-4 RADIATOR REMOVAL/INSTALLATION.)
- Remove the condenser fan. (See 07-40-6 CONDENSER FAN REMOVAL/INSTALLATION.)
- Remove the radiator brackets.
- Remove the air hose.



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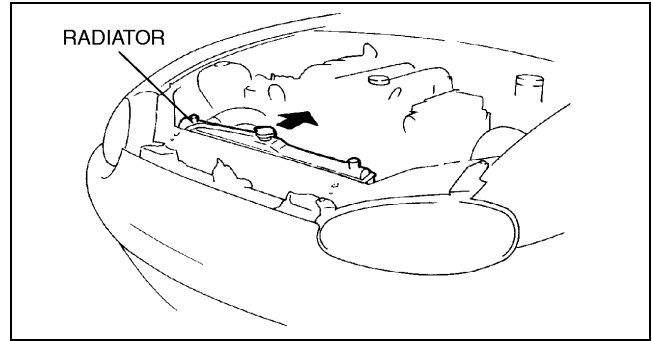
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- Keep pushing the radiator fully backward to remove the condenser.

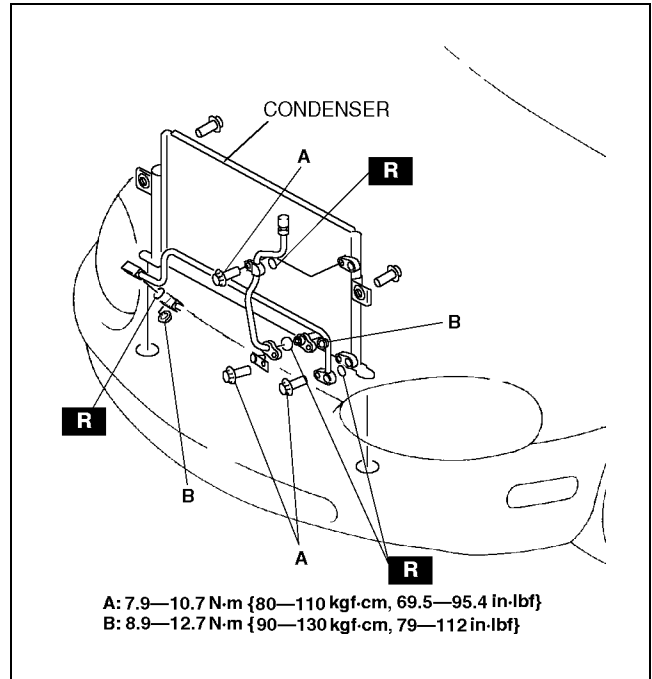
Caution

- If moisture or foreign material enters the refrigeration cycle, cooling ability will be lowered and abnormal noise will occur. Always immediately plug all open fittings after removing any refrigeration cycle parts to keep moisture or foreign material out of the cycle.

- Remove the splash shield.
- Remove the condenser. Do not allow compressor oil to spill. (See 07-11-8 Condenser Installation Note.)
- Install in the reverse order of removal.
- Perform the refrigerant system performance test. (See 07-10-2 REFRIGERANT SYSTEM PERFORMANCE TEST.)



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Condenser Installation Note

- When installing a new condenser, add DENSO OIL9 compressor oil into the refrigeration cycle.

Supplemental amount (approximate quantity)

30 ml {30 cc, 1.0 fl oz}

REFRIGERANT LINES REMOVAL/INSTALLATION

A5U071161460W01

- Discharge the refrigerant from the system. (See 07-10-4 REFRIGERANT CHARGING.)
- Disconnect the negative battery cable.
- Remove the under cover.

Caution

- If moisture or foreign material enters the refrigeration cycle, cooling ability will be lowered and abnormal noise will occur. Always immediately plug all open fittings after removing any refrigeration cycle parts to keep moisture or foreign material out of the cycle.
- To prevent the pipe from breaking, loosen the joint by using two open-end wrenches.

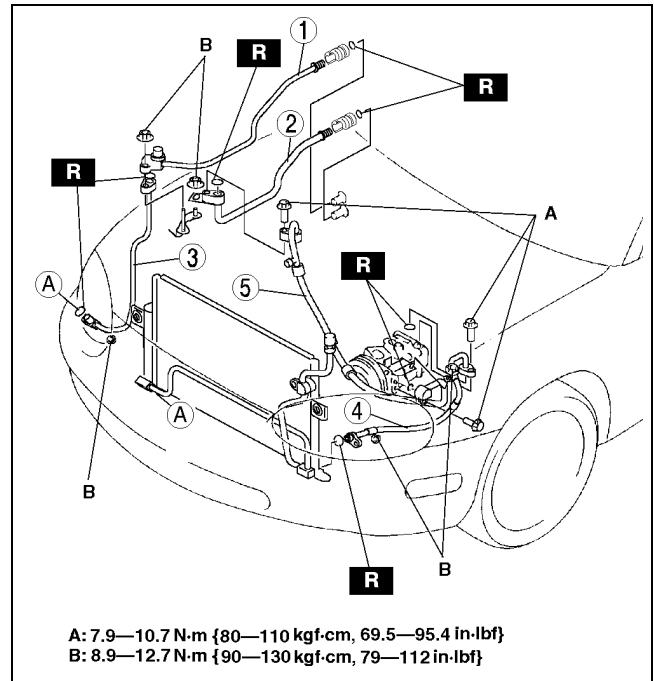
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4. Remove in the order indicated in the table.

1	Cooler pipe No.1 See 07-11-9 Refrigerant Lines Removal Note See 07-11-10 Refrigerant Lines Installation Note
2	Cooler pipe No.2 See 07-11-9 Refrigerant Lines Removal Note See 07-11-10 Refrigerant Lines Installation Note
3	Cooler pipe No.3 See 07-11-10 Refrigerant Lines Installation Note
4	Flexible hose (HI) See 07-11-10 Refrigerant Lines Installation Note
5	Flexible hose (LO) See 07-11-10 Refrigerant Lines Installation Note

5. Install in the reverse order of removal.

6. Perform the refrigerant system performance test.
(See 07-10-2 REFRIGERANT SYSTEM PERFORMANCE TEST.)



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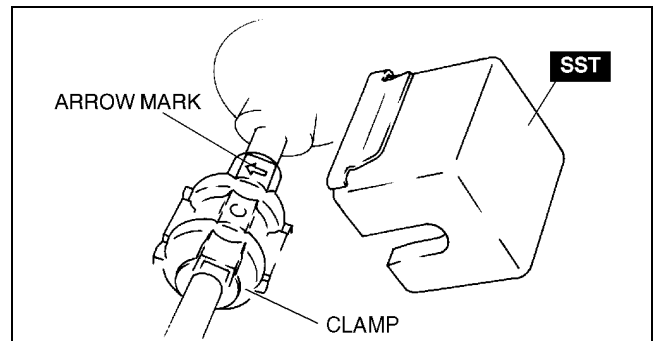
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Refrigerant Lines Removal Note

Note

- There are two types of **SSTs**:
49 N061 001 (high-pressure) and **49 N061 002** (low-pressure).

- Set the **SST** into the clamp with the arrow mark on the clamp facing the **SST**.

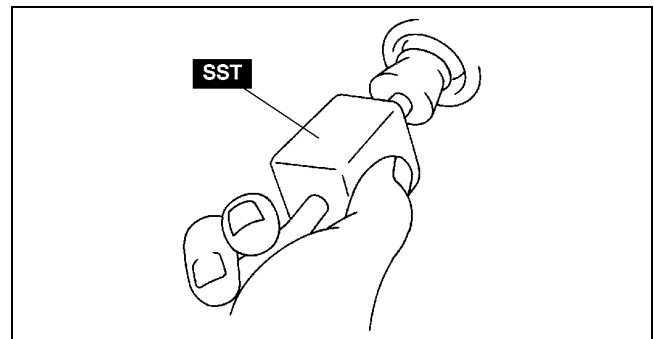


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- Push the SST with your thumb until the clamp clicks.

Caution

- If the SST is pushed with excessive force, the clamp will deform. Be careful when pushing the SST into the clamp.



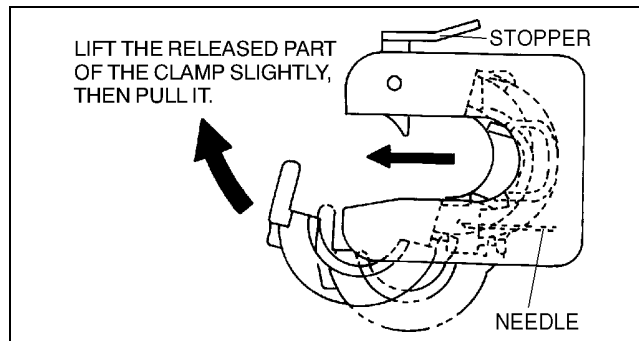
Z5U0711W002

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3. Pull up the stopper, then pull the SST from the pipe.
4. Remove the **SST** from the clamp.

Caution

- Be careful not to bend the SST needles when performing a clamp removal. If the needles are bent, the clamp can not be unlocked.



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Refrigerant Lines Installation Note

1. Apply compressor oil to the O-rings and connect the joints.
2. When installing a new cooler hose or pipe add DENSO OIL9 compressor oil into the refrigeration cycle.

Supplemental amount (approximate quantity)

10 ml {10 cc, 0.3 fl oz}

3. Tighten the joints.
 - (1) Tighten the nut or bolt of the joint by hand.
 - (2) Tighten the joint to the specified torque.
 - If it is a nut joint, tighten the nut using a spanner and torque wrench.