

HEATER AND AIR CONDITIONER

PRECAUTION.....	AC-2
BASIC CHECK.....	AC-4
PREPARATION TOOLS.....	AC-4
REFRIGERANT GAS.....	AC-4
DRIVE BELT.....	AC-5
HEATER CONTROL.....	AC-6
FUNCTION CHECK.....	AC-6
REMOVAL AND INSTALLATION.....	AC-6
A/C PIPING.....	AC-10
REMOVAL AND INSTALLATION.....	AC-10
A/C UNIT.....	AC-13
REMOVAL AND INSTALLATION.....	AC-13
HEATER UNIT.....	AC-15
REMOVAL AND INSTALLATION.....	AC-15
HEATER CORE.....	AC-17
REMOVAL AND INSTALLATION.....	AC-17
EVAPORATOR.....	AC-19
REMOVAL AND INSTALLATION.....	AC-19
BLOWER MOTOR.....	AC-22
REMOVAL AND INSTALLATION.....	AC-22
COMPRESSOR W/MAGNET	
CLUTCH.....	AC-24
REMOVAL AND INSTALLATION.....	AC-24
DISASSEMBLY AND ASSEMBLY.....	AC-27
BLOWER RESISTER.....	AC-28
REMOVAL AND INSTALLATION.....	AC-28
A/C CONDENSER.....	AC-29
REMOVAL AND INSTALLATION.....	AC-29
OUTLINE OF SYSTEMS.....	AC-30
CIRCUIT DAIGRAM.....	AC-30
UNIT CHECK.....	AC-33

AC

AC-2

1 PRECAUTION

1. Use an electronic leak tester (R134a) when inspecting for gas leaks.
2. Before repairing the A/C refrigerant cycle, etc., make sure there are no sources of fire or heat in the surrounding area.
3. If the refrigerant gas comes into contact with an open flame, it could degrade into a poisonous gas, so be careful not to inhale such gas.
4. When repairing, inspecting, or otherwise working with the refrigerant cycle, be sure to open the windows, etc., to ventilate the area.
5. When using a special R12 vacuum pump to create a vacuum, make sure to work with the solenoid valve adapter attached.
6. Do the following if refrigerant gas gets in the eyes.
(1) Do not rub the eyes with a hand or handkerchief.
(2) Receive the care of an eye doctor.
7. Do not heat the refrigerant gas service canister.

CAUTION

- Heating the service canister could cause it to rupture.

NOTE

- If the service canister must be heated, use hot water that is less than 40°C to heat it.

8. Do not drop or strike the refrigerant gas service canister.
9. Do not open the manifold gauge high-pressure valve while the engine is running.

CAUTION

- If the high-pressure valve is opened, the gas will back flow, which could cause the canister to rupture.

10. Do not use the refrigerant gas service canister close to the face. Wear safety glasses when using the canister.

AC-ATT-R-C-00001

11. Only use ND-OIL8 for the compressor oil. Using a different compressor oil could cause compressor lock from poor lubrication, refrigerant leaks due to swollen rubber parts, decreased cooling performance, or other problems.
12. The R134a compressor oil is highly moisture absorbent, so use a plug, plastic tape, or other means to shut out the air when replacing A/C parts.
13. The R134a compressor oil has a negative impact on acrylic plastics, so do not allow the oil to get on other parts.

AC-ATT-R-L-00001

1-1-1 O RING

1. Only use an O-ring made especially for use with R134a.

CAUTION

- The material, wire diameter, and specifications of other refrigerant O-rings differ from those made for use with R134a, so mistaken use of these could cause a gas leak.

2. Always use new O-rings.
3. When installing an O-ring, be sure to completely coat it with compressor oil.
4. Any debris, such as fuzz, that is stuck to the O-ring could cause a gas leak, so be sure to work with bare hands.

AC-ATT-R-O-00001

1-1-2 REFRIGERANT

1. Only use R134a for the refrigerant. Mistaken use of another refrigerant gas could result in insufficient cooling performance or compressor damage.

CAUTION

- Heating or use near a flame source, such as a burner or cigarette, could cause the refrigerant to transform into a harmful gas.
- Make sure there is sufficient ventilation and do not work in a closed area. Absolutely do not conduct a gas leak test using a halide torch leak tester.

AC-ATT-R-R-00001

2. There is no compatibility between the components that comprise an R134a system, such as the parts that comprise the refrigerant cycle and the compressor oil, and those that comprise another refrigerant system, so only use R134a components.

AC-ATT-R-X-00001

AC-4

2 BASIC CHECK

2-1 PREPARATION TOOLS

Tool	Leak Tester for flon type R134a
Gauge	Thermometer

AC-BI-P-Z-00001

2-2 REFRIGERANT GAS

2-2-1 REPLACE

(1) PULL OUT

1. Start the engine and turn on the A/C switch.
2. Run the engine in idle for several minutes and operate the compressor.

NOTE

- This operation will cause the compressor oil circulating in the freeze cycle together with the refrigerant to return to the compressor.

3. Stop the engine.
4. Connect the freon gas recovery and reuse unit and remove the refrigerant gas. When handling the freon gas recycling/recharging system, follow the instructions in the unit's operation manual.

(2) CHARGE

1. Continue from the removal procedure and charge with R134a to the standard amount.

SPECIFIED VALUE: 400 g (parallel condenser type)
380 g (Series condenser type)

NOTE

- Above values are not including of the inside of the charging hose.

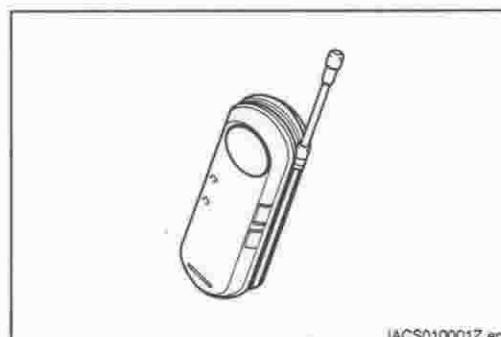
2. Charge with refrigerant gas until the bubbles on the sight glass disappear and keep filling with an additional 50g.

CAUTION

- If the A/C compressor is operated without refrigerant, there will be insufficient lubrication, which could cause the compressor to seize, so absolutely do not operate the compressor before it is charged with refrigerant.
- After charging, idle the engine for at least 2 minutes to circulate the refrigerant.
- The refrigerant gas recovery rate of the freon gas recovery and reuse unit is approximately 90%, so a service canister needs to be reused when recharging, so have one ready ahead of time.

(3) POST-GAS CHARGING INSPECTION

1. Use an electronic leak tester (for R134a) to inspect for gas leaks.



IACS010001Z.ens

CAUTION

- Conduct the gas leak inspection while the ignition switch is turned to "OFF."

2. Start the engine and turn the A/C switch to "ON."
3. Turn the blower to "MAX," the temperature control to "MAX COOL," and the air inlet mode selector lever to "Inside air," and completely open the windows.
4. With the system operating in this state, check the sight glass.

NOTE

- There might be a "geeeee" sound for a few seconds at the same time the compressor is operated, but this is not a problem.
- After the compressor is turned off or the engine is stopped, the compressor will turn in reverse and might make a rattling sound for a few dozen seconds, but this is not a problem.

5. Conduct a gas leak inspection.

AC-BI-R-X-00001

2-3 DRIVE BELT

2-3-1 INSPECTION

1. Conduct a belt appearance inspection.

AC-BI-V-C-00001

2-3-2 TENSION

1. Check and adjust the belt tension.

(1) Vehicle equipped with the K3 engine

① Tension meter usage method

SPECIFIED VALUE: When installing a new unit: $590 \pm 100\text{N}$, When readjusting: $390 \pm 50\text{N}$

② Method for adjusting the bend.

SPECIFIED VALUE: When installing a new unit: 10.5-12.5mm, When readjusting: 14.5-16.5mm.

(2) Vehicle equipped with the EJ engine

① Tension meter usage method

SPECIFIED VALUE: When installing a new unit: $490 \pm 49\text{N}$, When readjusting: $343 \pm 49\text{N}$

② Method for adjusting the bend.

WARNING

- When installing a new unit: 8-11mm, When readjusting: 11-14mm.

AC-BI-V-I-00001

AC-6

3 HEATER CONTROL

3-1 FUNCTION CHECK

1. Turn the blower to "MAX."
2. Check if air is blown from the vent indicated by the mode switch dial position.

AC-HCT-C-1-00001

3-1-1 TEMPERATURE CONTROL

1. Start the engine and allow it to warm up until the water temperature rises.
2. Turn the blower to "MAX" and turn the air inlet mode selector lever to "Outside air,"
3. Check if air is blown from the vent indicated by the mode switch dial position.

AC-HCT-C-2-00001

3-1-2 AIR INLET MODE SELECTOR

1. Turn the blower to "OFF," set the temperature control to "MAX COOL," and switch the air inlet mode selector lever to "Outside air," and drive the vehicle.
2. Check that only a very slight breeze blows from the vent.
3. Turn the air inlet mode selector lever to "Inside air."
4. Check that absolutely no air is blowing from the vent.

AC-HCT-C-3-00001

3-2 REMOVAL AND INSTALLATION

3-2-1 OPERATION BEFORE REMOVAL

1. Disconnect the negative terminal of the battery.

CAUTION

- When the negative terminal of the battery is disconnected, the memories of all system ECUs and the radio settings will be erased, so after the power is restored these need to be reset.

2. Remove the front pillar garnish.

Refer to BBE-66.

3. Remove the instrument panel S/A.

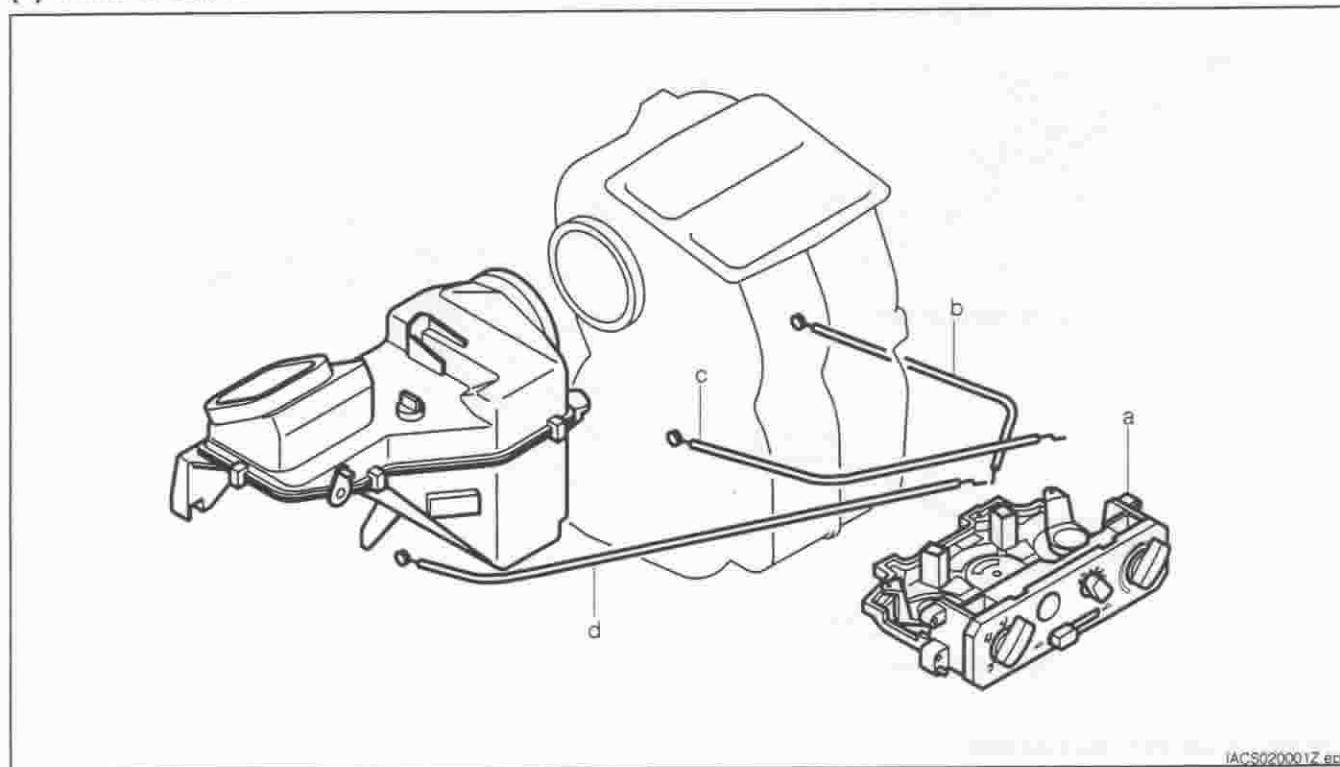
Refer to BBE-66.

4. Remove the EFI ECU.

AC-HCT-D-B-00001

3-2-2 REMOVAL AND INSTALLATION PROCEDURES

(1) COMPONENTS



(2) REMOVAL AND INSTALLATION PROCEDURES

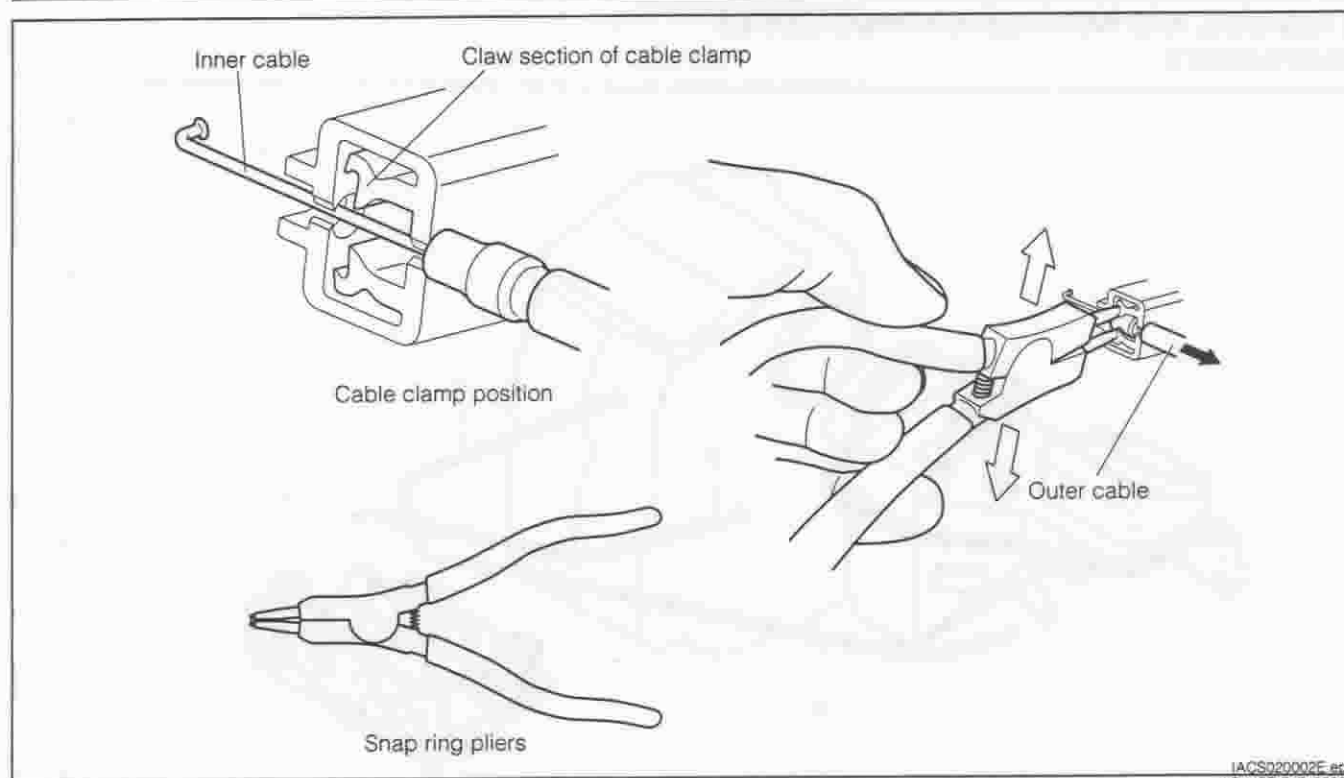
- | | | | |
|---|---|---|---------------------------------------|
| 1 | 4 | a | Control Ay, heater with cable |
| ② | ③ | b | Cable S/A, defroster damper control |
| ③ | ② | c | Cable S/A, temperature damper control |
| ④ | ① | d | Cable S/A, air inlet damper control |

AC-HCT-D-T-00001

3-2-3 POINTS OF REMOVAL

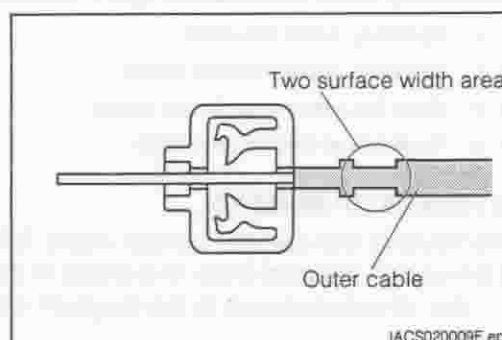
1. Removal of the damper control cable S/A
 - (1) Insert C-shaped snap ring pliers in the cable clamp jaws and then pull out the control cable outer in the direction shown in the diagram while spreading the jaws with the pliers.

AC-8

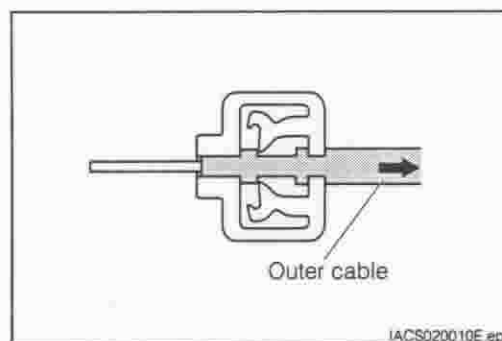


3-2-4 POINTS OF INSTALLATION

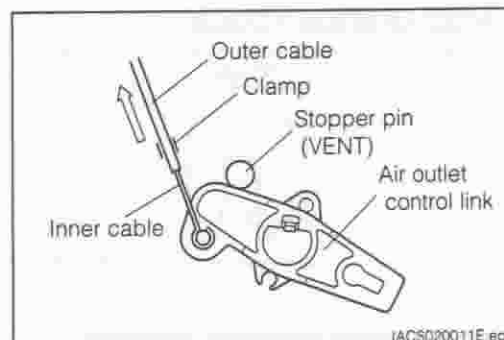
1. Attaching of control cable to heater control Ay
 - (1) Insert the control cable inner end inside the cable clamp.
 - (2) Turn the control cable outer two surface width area in the direction shown in the diagram.



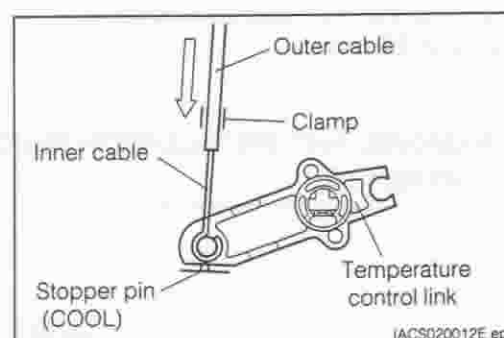
- (3) Push in the control cable outer two surface width area in the same orientation as the cable clamp jaws.
 - (4) Pull the control cable outer and check to make sure the wire outer is completely fixed in place.



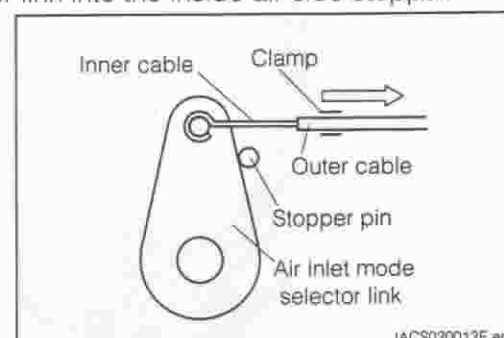
2. Connection of the air inlet damper control cable to heater unit
 - (1) Turn the heater control mode to VENT.
 - (2) Push the mode control link into the VENT side stopper pin.
 - (3) Pull the heater control cable outer side in the direction shown in the diagram, and then clamp it after the play with the inner side is eliminate.



3. Connect the temperature damper control cable S/A to the heater unit.
 - (1) Set heater control temperature dial to MAX COOL.
 - (2) Push the mode control link into the COOL side stopper.
 - (3) Pull the heater control cable outer side in the direction shown in the diagram, and then clamp it after the play with the inner side is eliminate.



4. Connection of the defroster damper control cable to air damper case
 - (1) Set heater control air inlet mode selector lever to "Inside air."
 - (2) Push the A/C unit or air damper case air inlet mode selector link into the inside air side stopper.
 - (3) Pull the heater control cable outer side in the direction shown in the diagram, and then clamp it after the play with the inner side is eliminate.



3-2-5 OPERATION AFTER INSTALLATION

1. Install the EFI ECU.
2. Install the instrument panel S/A.
Refer to BBE-66.
3. Install the front pillar garnish.
Refer to BBE-66.
4. Connect the negative terminal of the battery.

AC-HCT-D-A-00001

AC-10

4 A/C PIPING

4-1 REMOVAL AND INSTALLATION

4-1-1 PREPARATION TOOLS

	Shape	Part Number, Name	Purpose
SST		09870-00025-000 Quick joint remover	To remove the quick joint for air conditioner piping (High pressure side)

AC-ACP-D-P-00001

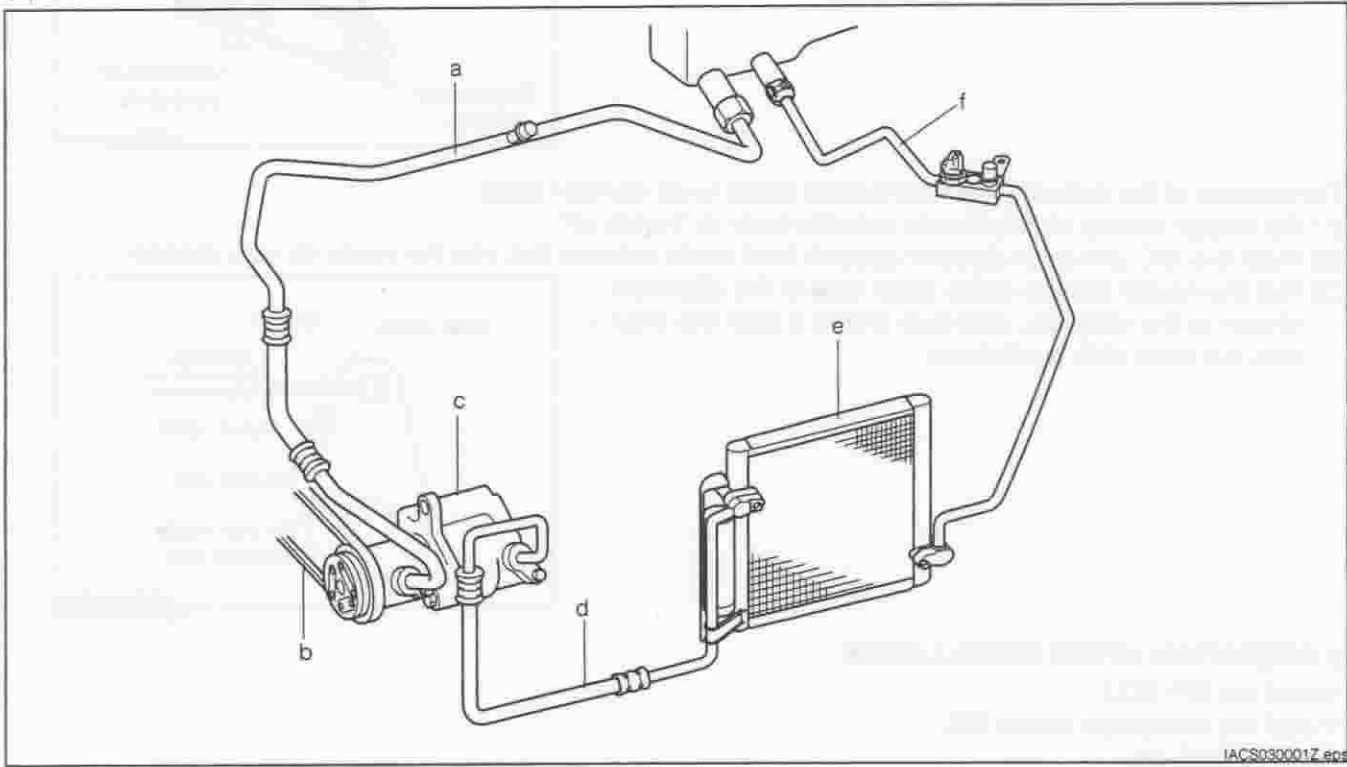
4-1-2 OPERATION BEFORE REMOVAL

1. Remove the A/C refrigerant gas from the refrigerant cycle.
Refer to AC-5.
2. Remove the front bumper cover.
Refer to BBE-3.

AC-ACP-D-B-00001

4-1-3 REMOVAL AND INSTALLATION PROCEDURES

(1) COMPONENTS



IACS030001Z.eps

(2) REMOVAL AND INSTALLATION PROCEDURES

- | | | | | | | | |
|---|---|---|-----------------|---|---|---|--------------|
| 1 | 6 | a | Hose, suction | ⑥ | ① | f | Tube, liquid |
| 2 | 5 | b | Belt, V | | | | |
| 3 | 4 | c | Compressor Ay | | | | |
| 4 | 3 | d | Hose, discharge | | | | |
| 5 | 2 | e | Condenser Ay | | | | |

AC-ACP-D-T-00001

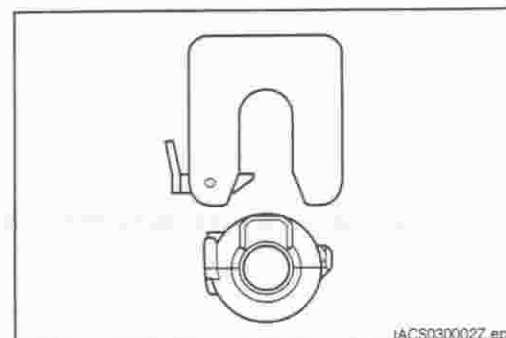
4-1-4 POINTS OF REMOVAL

1. Removal of liquid tube

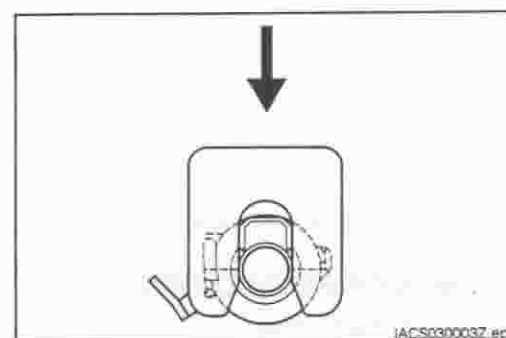
CAUTION

- When removing the quick joint, first make sure there is no refrigerant in the refrigerant cycle.

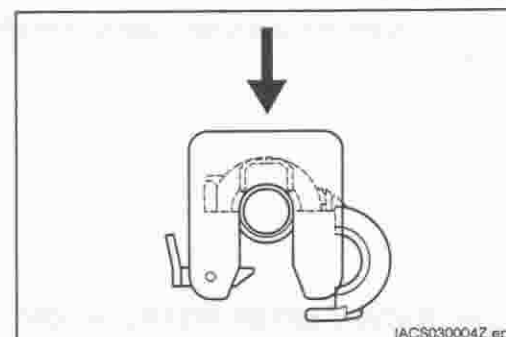
(1) Check the orientation before inserting the SST. Insert the two SST claws into the quick joint clamp hole.



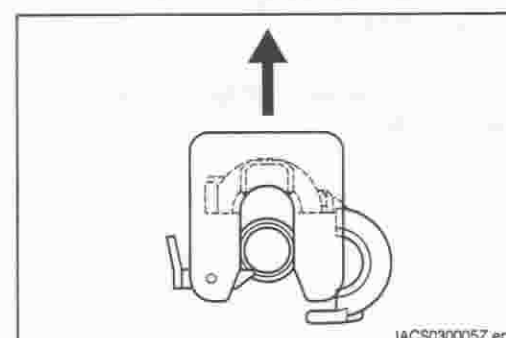
(2) Insert the SST.



(3) Check to make sure the quick joint clamp is open.

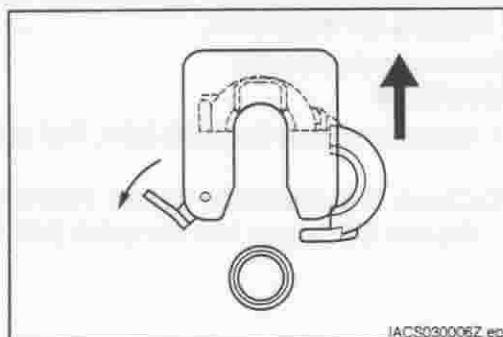


(4) Remove the quick joint clamp from the pipe.

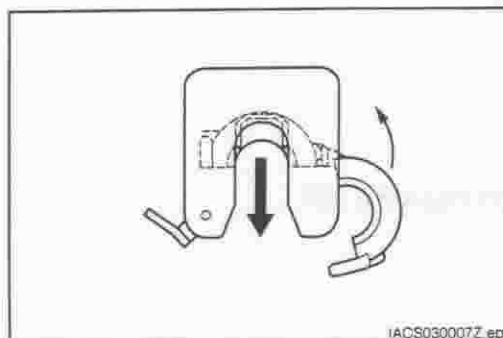


AC-12

- (5) Remove the quick joint clamp from the pipe while it is assembled in the SST.



- (6) Remove the quick joint clamp from the SST.



- (7) Remove the liquid tube.

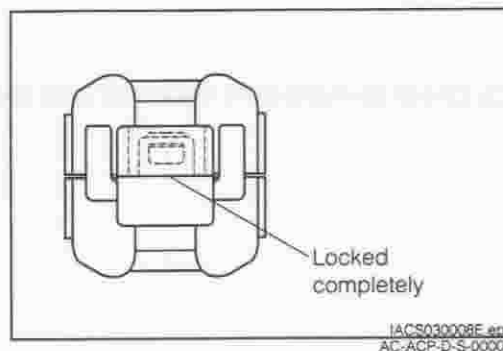
AC-ACP-D-D-00001

4-1-5 POINTS OF INSTALLATION

1. Install the liquid tube.

CAUTION

- Make sure the quick joint clamp installation is done correctly.



4-1-6 OPERATION AFTER INSTALLATION

1. Install the front bumper cover.
Refer to BBE-3.
2. Recharge the A/C refrigerant gas.
Refer to AC-5.

AC-ACP-D-A-00001

5 A/C UNIT**5-1 REMOVAL AND INSTALLATION****5-1-1 PREPARATION TOOLS**

	Shape	Part Number, Name	Purpose
SST		09870-00025-000 Quick joint remover	To remove the quick joint for air conditioner piping (High pressure side).

AC-ACU-D-P-00001

5-1-2 OPERATION BEFORE REMOVAL

1. Remove the A/C refrigerant gas from the refrigerant cycle.
Refer to AC-5.

2. Disconnect the negative terminal of the battery.

CAUTION

- When the negative terminal of the battery is disconnected, the memories of all system ECUs and the radio settings will be erased, so after the power is restored these need to be reset.

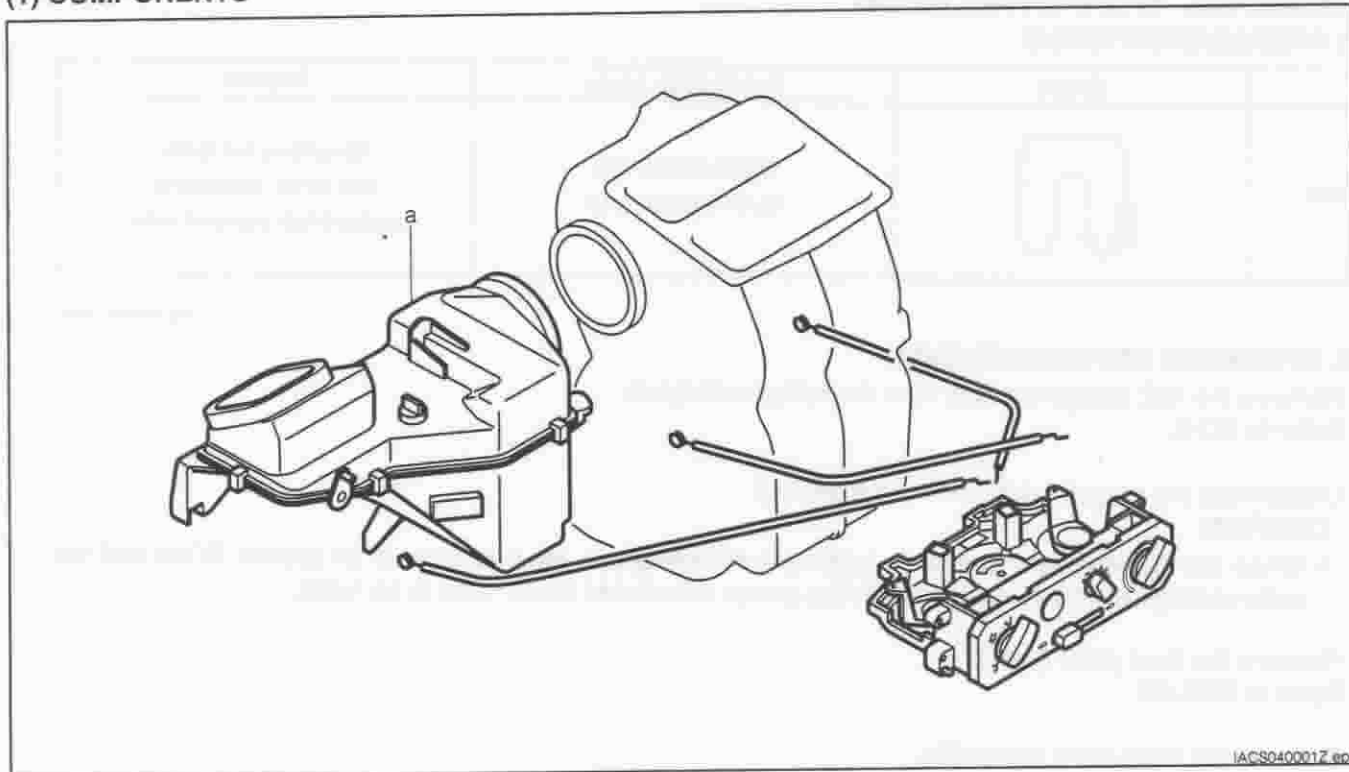
3. Remove the front pillar garnish.
Refer to BBE-66.
4. Remove the instrument panel S/A.
Refer to BBE-32.
5. Remove the EFI ECU.
6. Remove the door lock control ECU.
7. Separate the A/C piping from the A/C unit.
Refer to AC-10.
8. Remove the outside air intake duct.

AC-ACU-D-B-00001

AC-14

5-1-3 REMOVAL AND INSTALLATION PROCEDURES

(1) COMPONENTS



(2) REMOVAL AND INSTALLATION PROCEDURES

- 1 1 a Case S/A, air damper

AC-ACU-D-T-00001

5-1-4 OPERATION AFTER INSTALLATION

1. Install the outside air intake duct.
2. Connect the A/C piping to the A/C unit.
Refer to AC-10.
3. Install the door lock control ECU.
4. Install the EFI ECU.
5. Install the instrument panel S/A.
Refer to BBE-32.
6. Install the front pillar garnish.
Refer to BBE-66.
7. Connect the negative terminal of the battery.
8. Charge the refrigerant cycle with A/C refrigerant gas.
Refer to AC-5.

AC-ACU-D-A-00001

6 HEATER UNIT

6-1 REMOVAL AND INSTALLATION

6-1-1 OPERATION BEFORE REMOVAL

1. Remove the coolant from the vehicle.
2. Disconnect the negative terminal of the battery.

CAUTION

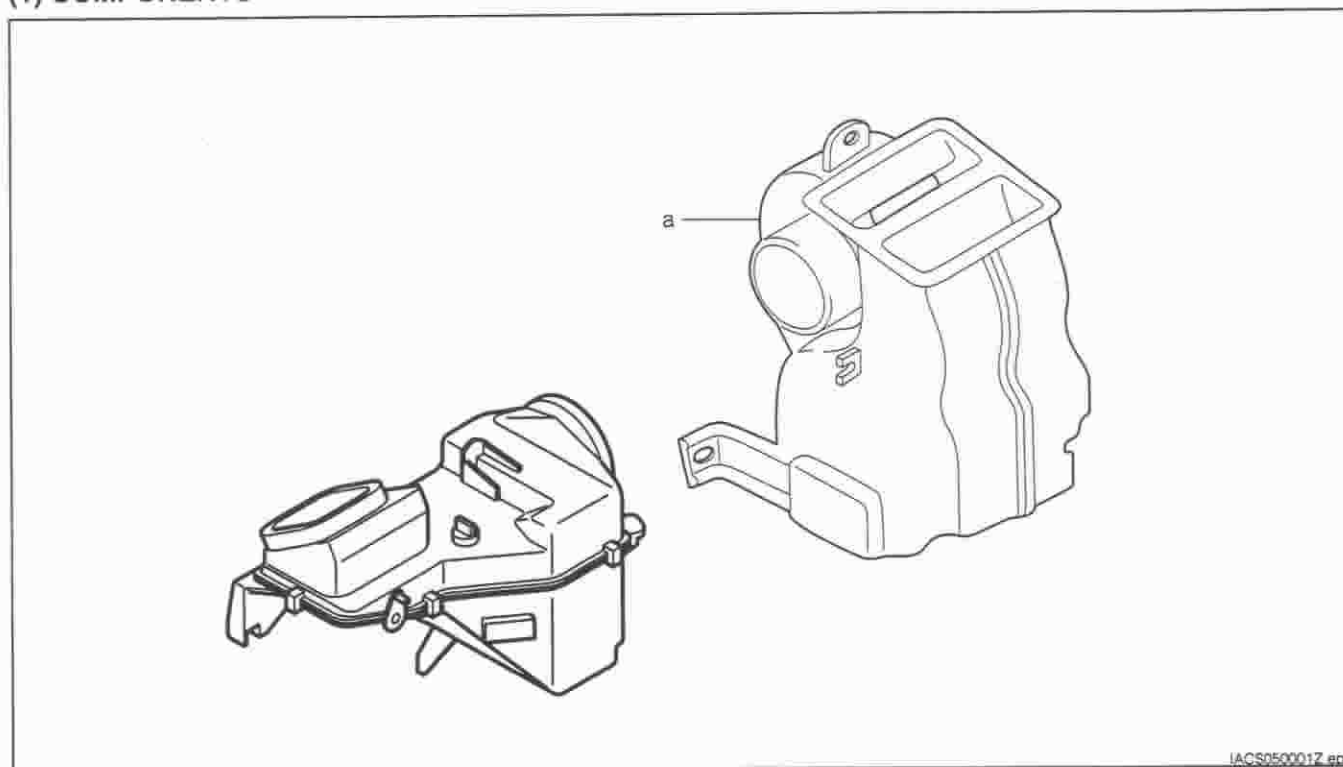
- When the negative terminal of the battery is disconnected, the memories of all system ECUs and the radio settings will be erased, so after the power is restored these need to be reset.

3. Remove the front pillar garnish.
Refer to BBE-66.
4. Remove the instrument panel S/A.
Refer to BBE-32.
5. Remove the heater control Ay.
Refer to AC-7.
6. Remove the immobilizer ECU.
7. Remove the rear console box.
8. Remove the console panel.

AC-HU-D-B-00001

6-1-2 REMOVAL AND INSTALLATION PROCEDURES

(1) COMPONENTS



IACS050001Z.eps

(2) REMOVAL AND INSTALLATION PROCEDURES

- 1 1 a Heater Ay, front.

AC-HU-D-T-00001

AC-16

6-1-3 OPERATION AFTER INSTALLATION

1. Install the console panel.
2. Install the rear console box.
3. Install the immobilizer ECU.
4. Install the heater control Ay.
Refer to AC-7.
5. Install the instrument panel S/A.
Refer to BBE-32.
6. Install the front pillar garnish.
Refer to BBE-66.
7. Connect the negative terminal of the battery.
8. Add coolant to the vehicle.

AC-HU-D-A-00001



7 HEATER CORE

7-1 REMOVAL AND INSTALLATION

7-1-1 OPERATION BEFORE REMOVAL

1. Remove the coolant from the vehicle.
2. Disconnect the negative terminal of the battery.

CAUTION

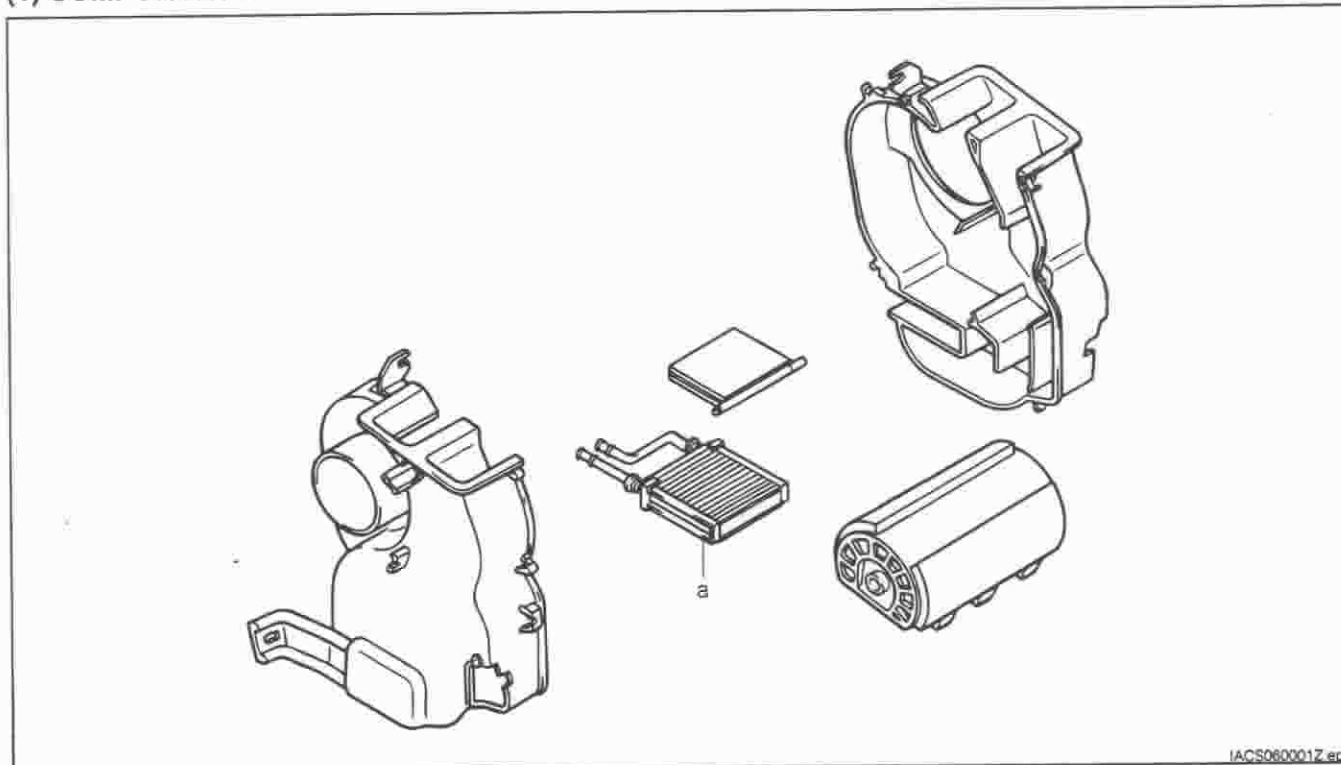
- When the negative terminal of the battery is disconnected, the memories of all system ECUs and the radio settings will be erased, so after the power is restored these need to be reset.

3. Remove the front pillar garnish.
Refer to BBE-66.
4. Remove the instrument panel S/A.
Refer to BBE-32.
5. Remove the heater control A/y.
Refer to AC-7.
6. Remove the immobilizer ECU.
7. Remove the rear console box.
8. Remove the console panel.
9. Remove the heater unit.
Refer to AC-15.

AC-HCD-D-B-00001

7-1-2 REMOVAL AND INSTALLATION PROCEDURES

(1) COMPONENTS



IACS060001Z.eps

(2) REMOVAL AND INSTALLATION PROCEDURES

- 1 1 a Unit S/A, radiator heater

AC-HCD-D-T-00001

AC-18

7-1-3 OPERATION AFTER INSTALLATION

1. Install the heater unit.
Refer to AC-15.
2. Install the console panel.
3. Install the rear console box.
4. Install the immobilizer ECU.
5. Install the heater control Ay.
Refer to AC-7.
6. Install the instrument panel S/A.
Refer to BBE-32.
7. Install the front pillar garnish.
Refer to BBE-66.
8. Connect the negative terminal of the battery.
9. Add coolant to the vehicle.

AC-HCD-D-A-00001



8 EVAPORATOR**8-1 REMOVAL AND INSTALLATION****8-1-1 PREPARATION TOOLS**

	Shape	Part Number, Name	Purpose
SST		09870-00025-000 Quick joint remover	To remove the quick joint for air conditioner piping (High pressure side)

AC-EVA-D-P-00001

8-1-2 OPERATION BEFORE REMOVAL

1. Remove the A/C refrigerant gas from the refrigerant cycle.
Refer to AC-5.

2. Disconnect the negative terminal of the battery.

CAUTION

- When the negative terminal of the battery is disconnected, the memories of all system ECUs and the radio settings will be erased, so after the power is restored these need to be reset.

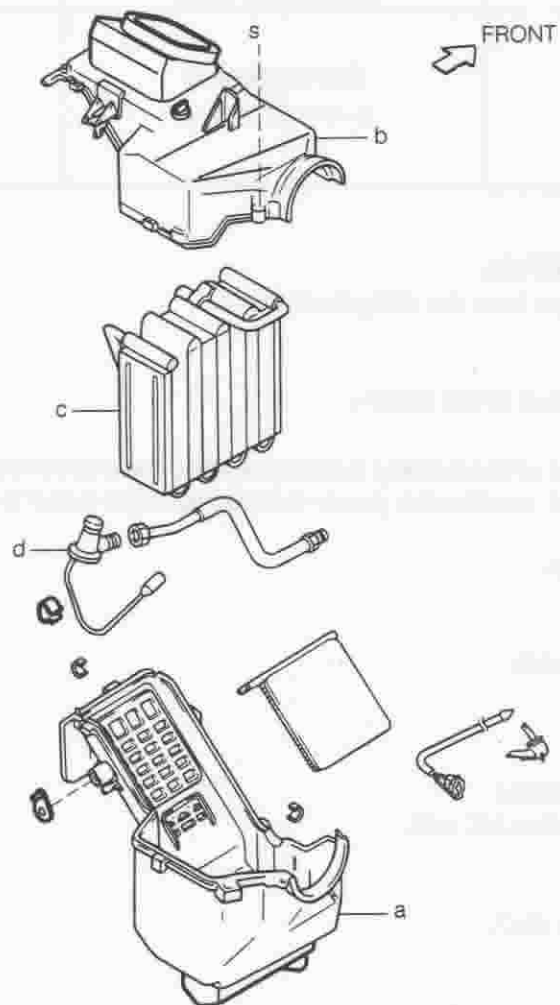
3. Remove the front pillar garnish.
Refer to BBE-66.
4. Remove the instrument panel S/A.
Refer to BBE-32.
5. Remove the EFI ECU.
6. Remove the door lock control ECU.
7. Separate the A/C piping from the A/C unit.
Refer to AC-10.
8. Remove the outside air intake duct.
9. Remove the A/C unit.
Refer to AC-33.

AC-EVA-D-B-00001

AC-20

8-1-3 REMOVAL AND INSTALLATION PROCEDURES

(1) COMPONENTS



JACS070001Z.eps

(2) REMOVAL AND INSTALLATION PROCEDURES

- | | | | |
|---|---|---|-------------------------|
| 1 | 4 | a | Case S/A, cooling unit |
| 2 | 3 | b | Case, cooling unit main |
| 3 | 2 | c | Evaporator S/A |
| 4 | 1 | d | Valve, expansion |

AC-EVA-D-T-00001

8-1-4 OPERATION AFTER INSTALLATION

1. Install the A/C unit.
Refer to AC-33.
2. Install the outside air intake duct.
3. Connect the A/C piping to the A/C unit.
Refer to AC-10.
4. Install the door lock control ECU.
5. Install the EFI ECU.
6. Install the instrument panel S/A.
Refer to BBE-32.
7. Install the front pillar garnish.
Refer to BBE-66.
8. Connect the negative terminal of the battery.
9. Charge the refrigerant cycle with A/C refrigerant gas.
Refer to AC-5.

AC-EVA-D-A-00001

AC-22

9 BLOWER MOTOR

9-1 REMOVAL AND INSTALLATION

9-1-1 OPERATION BEFORE REMOVAL

1. Disconnect the negative terminal of the battery.

CAUTION

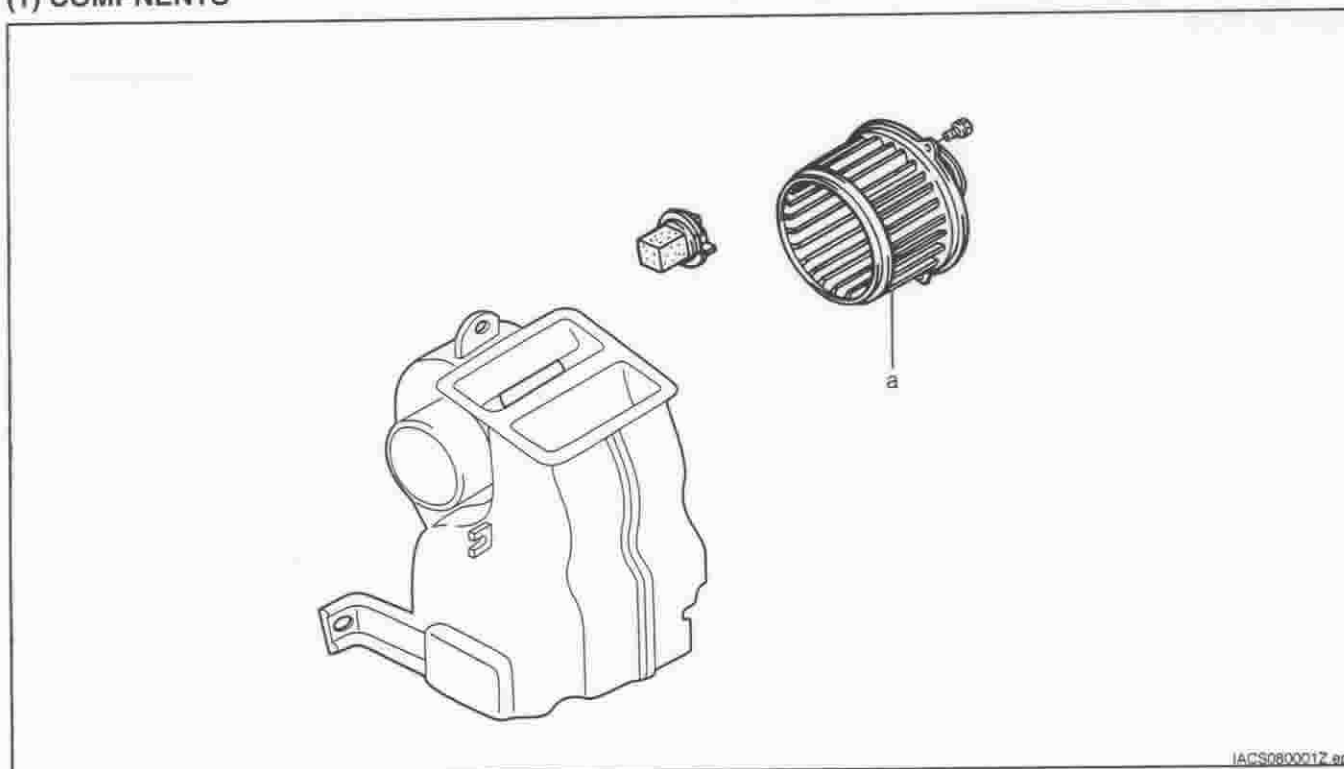
- When the negative terminal of the battery is disconnected, the memories of all system ECUs and the radio settings will be erased, so after the power is restored these need to be reset.

2. Remove the front pillar garnish.
Refer to BBE-66.
3. Remove the instrument panel S/A.
Refer to BBE-32.

AC-BLM-D-B-00001

9-1-2 REMOVAL AND INSTALLATION PROCEDURES

(1) COMPONENTS



IACS080001Z.ep5

(2) REMOVAL AND INSTALLATION PROCEDURES

- 1 1 a Motor S/A, heater blower

AC-BLM-D-T-00001

9-1-3 INSPECTION

1. Conduct a blower motor functional inspection.
Refer to AC-34.

AC-BLM-D-C-00001

9-1-4 OPERATION AFTER INSTALLATION

1. Install the instrument panel S/A.
Refer to BBE-32.
2. Install the front pillar garnish.
Refer to BBE-66.
3. Install the battery minus side terminal.

AC-BLM-D-A-00001

AC-24

10 COMPRESSOR W/MAGNET CLUTCH

10-1 REMOVAL AND INSTALLATION

10-1-1 OPERATION BEFORE REMOVAL

1. Remove the A/C refrigerant gas from the refrigerant cycle.
Refer to AC-5.
2. Remove the front bumper cover.
Refer to BBE-3.
3. Separate the vane pump from the vehicle. (Vehicle equipped with the K3 engine)

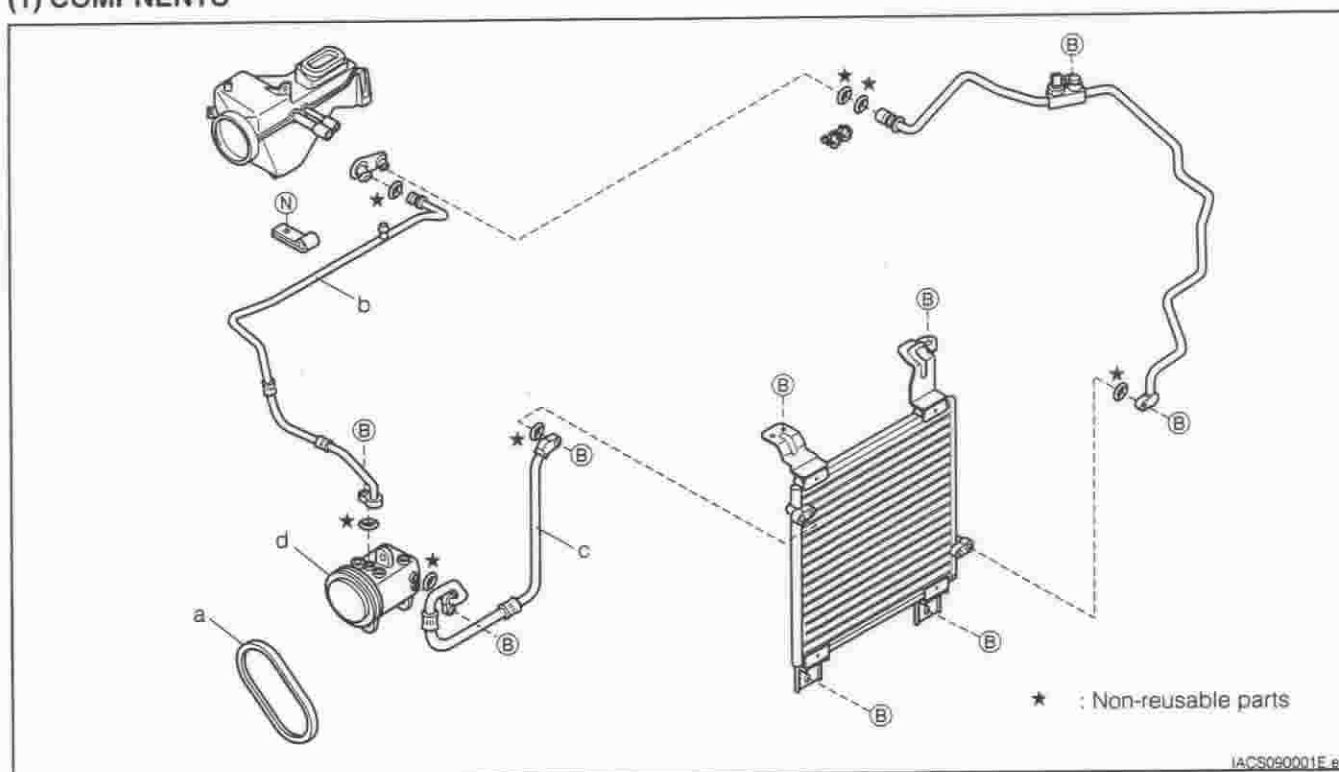
CAUTION

- Do not cut the hydraulic power steering piping.
- Use wire or other material to suspend the separated vane pump so that it does not stress the hydraulic power steering piping.

AC-CWM-D-B-00001

10-1-2 REMOVAL AND INSTALLATION PROCEDURES

(1) COMPONENTS



(2) REMOVAL AND INSTALLATION PROCEDURES

- 1 ④ a Belt, V
- 2 3 b Hose, suction
- 3 2 c Hose, discharge
- 4 ① d Compressor Ay

AC-CWM-D-T-00001

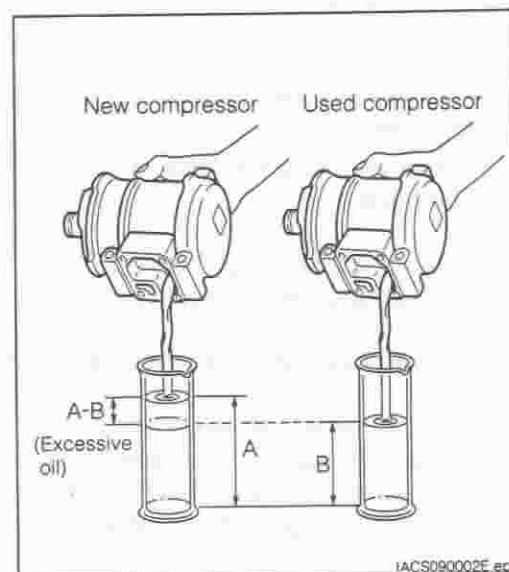
10-1-3 POINTS OF INSTALLATION

1. Installation of the compressor with magnetic clutch

CAUTION

- When installing a new compressor Ay, use the following procedure to adjust the compressor oil to the proper quantity.

- (1) Remove the oil filled into the new compressor Ay and remove the difference with the amount of oil removed from the compressor before replacement (extra oil).



SPECIFIED VALUE: Amount of oil removed from the new compressor = (amount of oil "A" filled into the new compressor) - (amount of oil "B" remaining in the compressor before replacement)

2. Use one of the following methods to adjust the A/C belt tension. (Vehicle equipped with the EJ engine)

CAUTION

- Do not start the engine when adjusting the tension.

- (1) Tension meter usage method

- ① Use a tension meter and adjust the belt tension until it is within the following reference value range.

SPECIFIED VALUE: When installing a new unit: $490 \pm 49\text{N}$, When readjusting: $343 \pm 49\text{N}$

- (2) Method for adjusting the bend.

- ① Adjust the bend to within the set range when the center of the belt between the pulleys is pressed with a force of approximately 10kgf.

SPECIFIED VALUE: When installing a new unit: 8-11mm, When readjusting: 11-14mm.

AC-CWM-D-S-00001

AC-26

10-1-4 OPERATION AFTER INSTALLATION

1. Install the vane pump in the vehicle. (Vehicle equipped with the K3 engine)
Refer to SR-40.

2. Install the front bumper cover.
3. Connect the A/C piping to the A/C unit.
Refer to AC-10.

4. Adjustment of V-belt tension (Vehicle equipped with the K3 engine)

CAUTION

- When adjusting the tension, do not start the engine, and then readjust after charging with A/C refrigerant gas.

(1) Tension meter usage method

- ① Use a tension meter and adjust the belt tension until it is within the following reference value range.

SPECIFIED VALUE: When installing a new unit: $590 \pm 100\text{N}$, When readjusting: $390 \pm 50\text{N}$

(2) Method for adjusting the bend.

- ① Adjust the bend to within the set range when the center of the belt between the pulleys is pressed with a force of approximately 10kgf.

SPECIFIED VALUE: When installing a new unit: 10.5-12.5mm, When readjusting: 14.5-16.5mm.

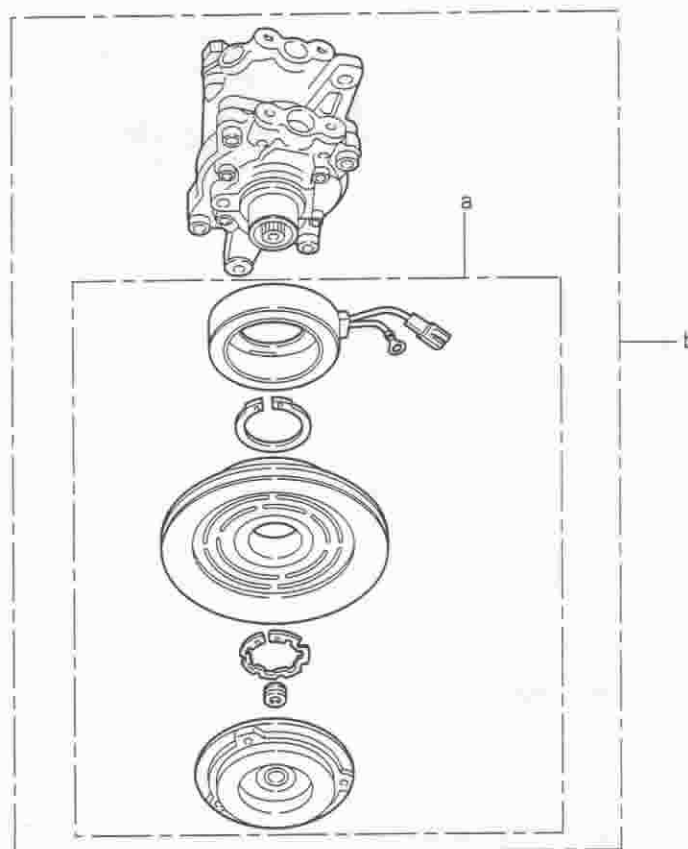
5. Charge the refrigerant cycle with A/C refrigerant gas.
Refer to AC-5.

AC-CWM-D-A-00001

10-2 DISASSEMBLY AND ASSEMBLY

10-2-1 DISASSEMBLY AND ASSEMBLY PROCEDURES

(1) COMPONENTS



IACS09000372.eps

(2) DISASSEMBLY AND ASSEMBLY PROCEDURES

- ① 2 a Clutch Ay, magnetic
2 1 b Compressor Ay

AC-CWM-B-T-00001

10-2-2 POINTS OF DISASSEMBLY

1. Removal of the magnet clutch Ay
 - (1) Remove the bolts holding the magnet clutch Ay.
 - (2) Screw 8mm bolts in the bolt holes of the magnet clutch Ay and remove the magnet clutch Ay.

AC-CWM-B-D-00001

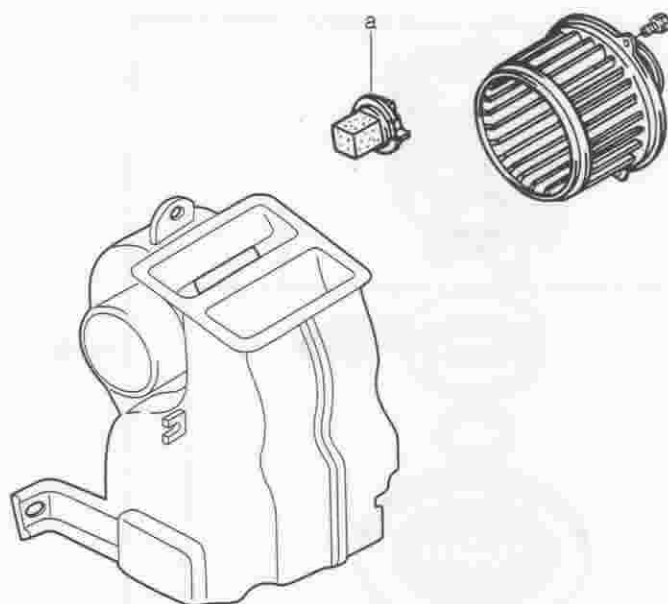
AC-28

11 BLOWER RESISTER

11-1 REMOVAL AND INSTALLATION

11-1-1 REMOVAL AND INSTALLATION PROCEDURES

(1) COMPONENTS



IACS100001Z end

(2) REMOVAL AND INSTALLATION PROCEDURES

- 1 1 a Resistor, heater blower

AC-BLR-D-T-00001

11-1-2 INSPECTION

1. Conduct a standalone inspection of the heater blower resistor.
Refer to AC-33.

AC-BLR-D-C-00001

12 A/C CONDENSER

12-1 REMOVAL AND INSTALLATION

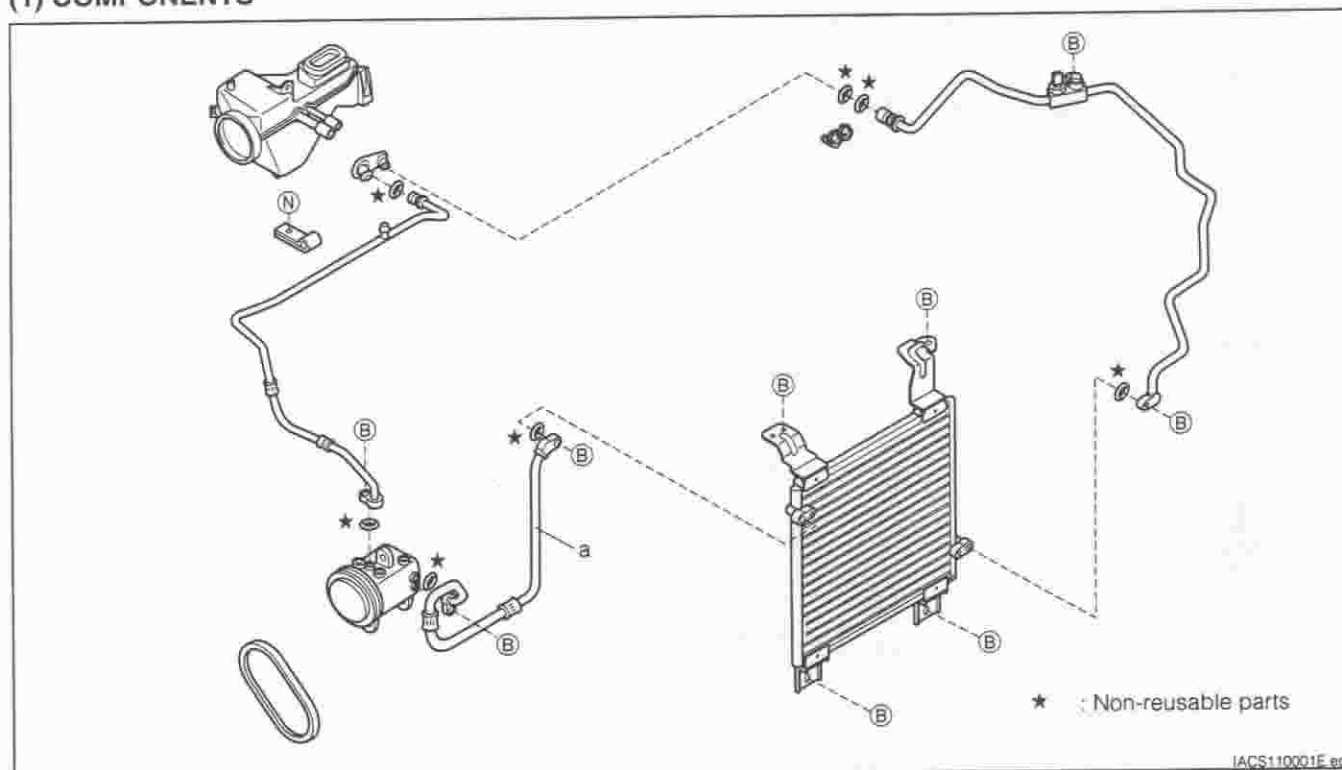
12-1-1 OPERATION BEFORE REMOVAL

1. Remove the A/C refrigerant gas from the refrigerant cycle.
Refer to AC-5.
2. Remove the front bumper cover.
Refer to BBE-3.

AC-CCD-D-B-00001

12-1-2 REMOVAL AND INSTALLATION PROCEDURES

(1) COMPONENTS



(2) REMOVAL AND INSTALLATION PROCEDURES

- 1 1 a Hose, discharge

AC-CCD-D-T-00001

12-1-3 OPERATION AFTER INSTALLATION

1. Install the front bumper cover.
Refer to BBE-3.
2. Charge the refrigerant cycle with A/C refrigerant gas.
Refer to AC-5.

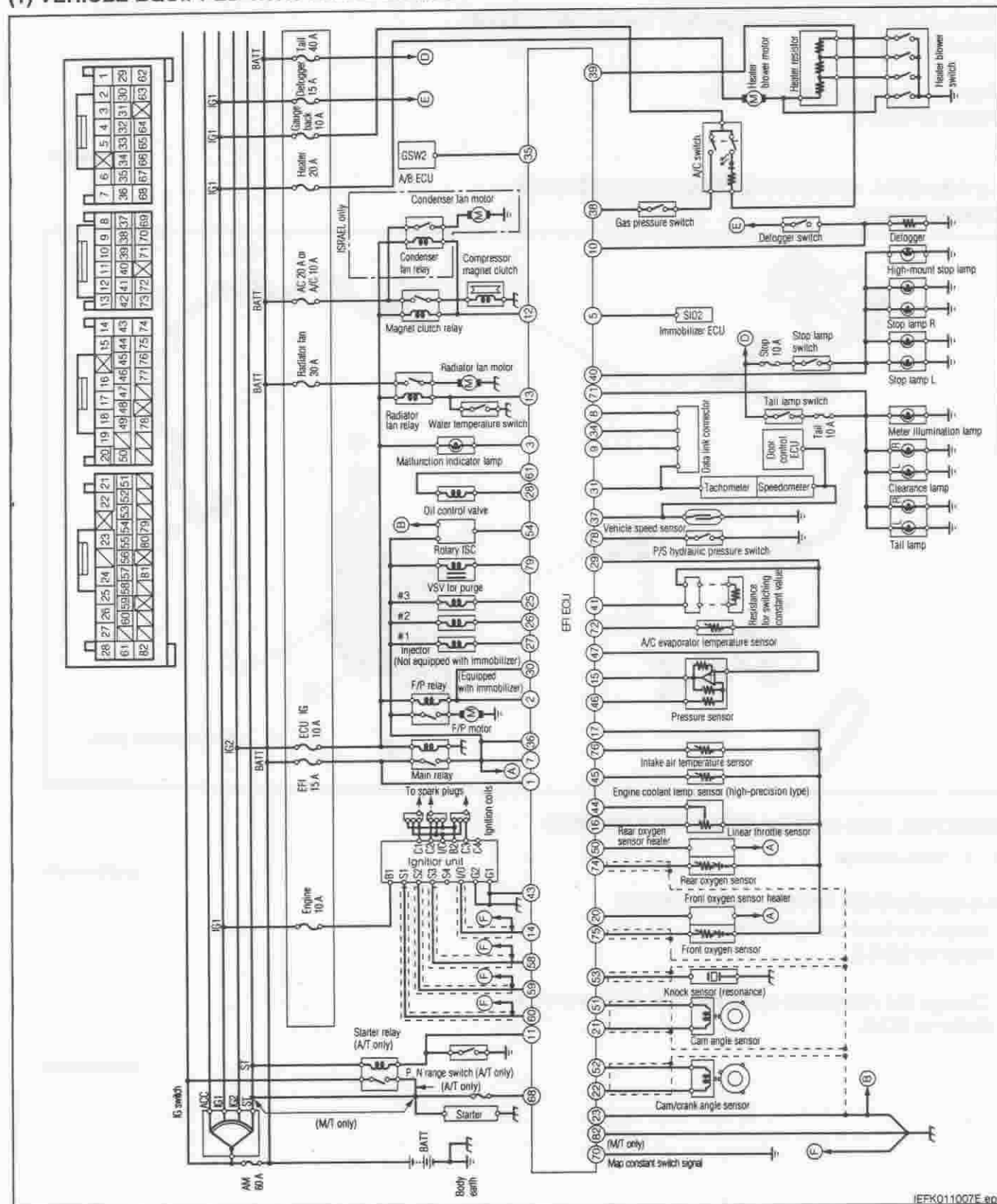
AC-CCD-D-A-00001

AC-30

13 OUTLINE OF SYSTEMS

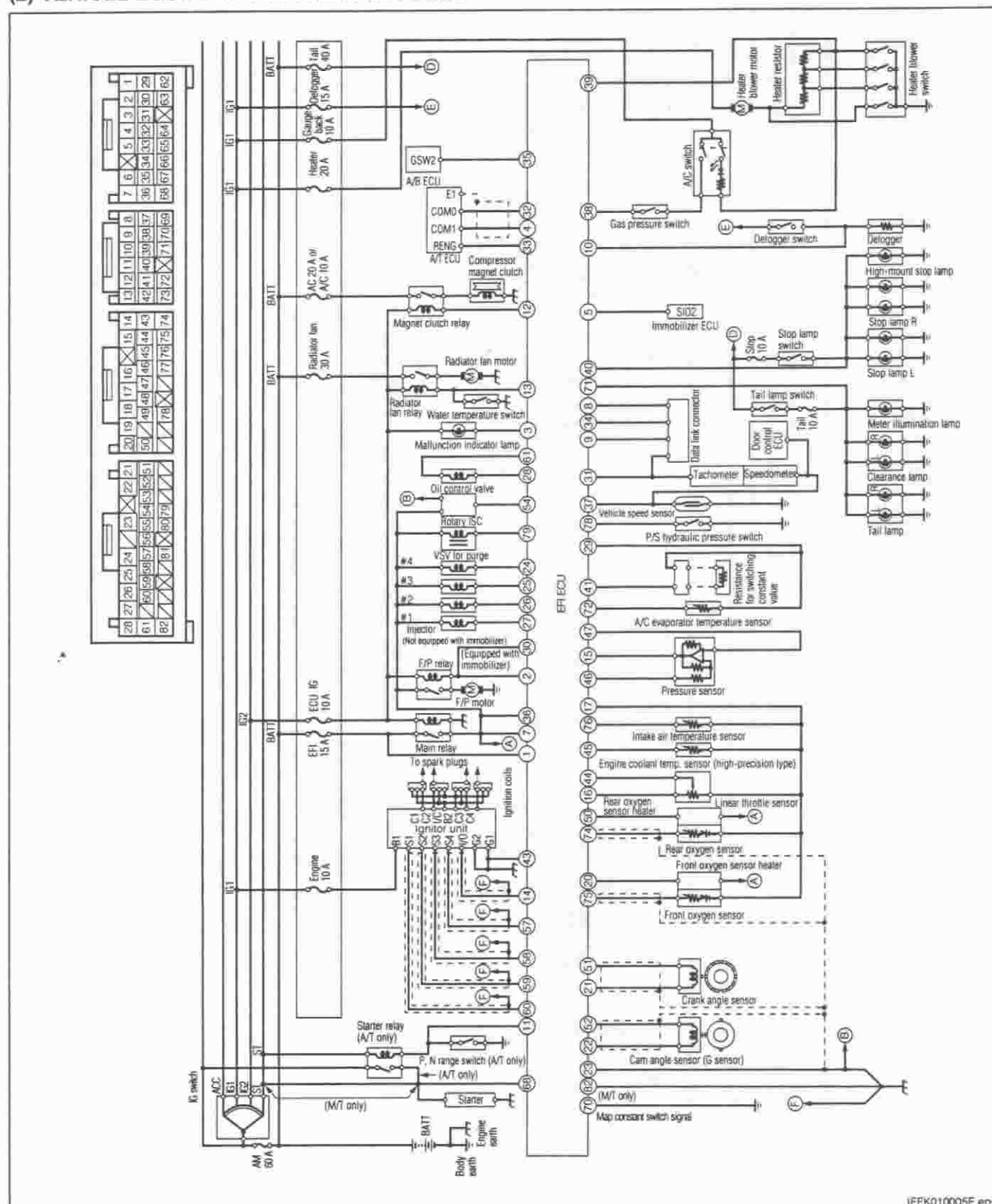
13-1 CIRCUIT DAIGRAM

(1) VEHICLE EQUIPPED WITH THE EJ ENGINE



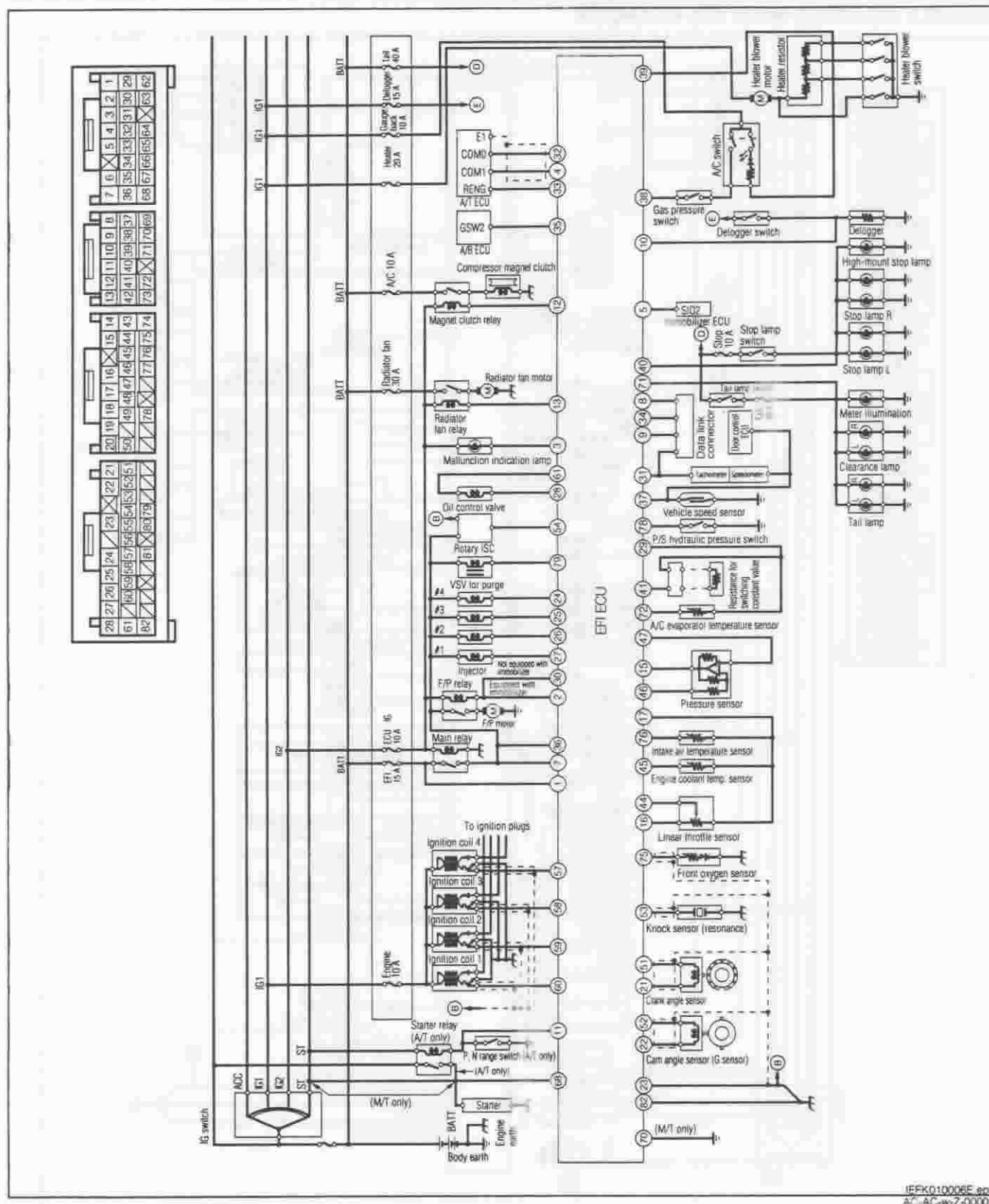
IEFK011007E.eps

(2) VEHICLE EQUIPPED WITH THE K3 ENGINE



1EFK010005E.eps

AC-32



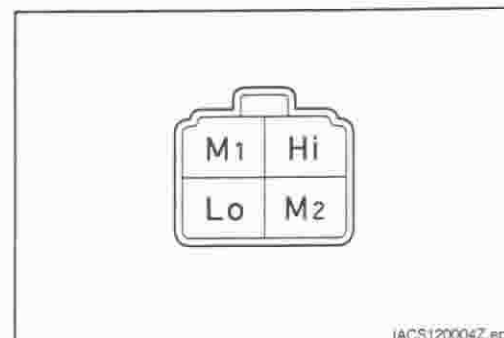
IFFK010006E.eps
AC-AC-w-2-00001

13-2 UNIT CHECK

13-2-1 BLOWER RESISTOR

1. Measure the resistance between the heater blower resistor terminals.

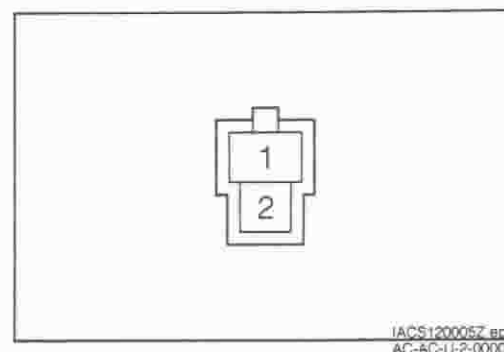
SPECIFIED VALUE: Between Hi-M2: Approx. 0.5Ω
Between M2-M1: Approx. 0.82Ω
Between M1-Lo: Approx. 1.8Ω



13-2-2 THERMISTOR

1. Measure the thermistor resistance.

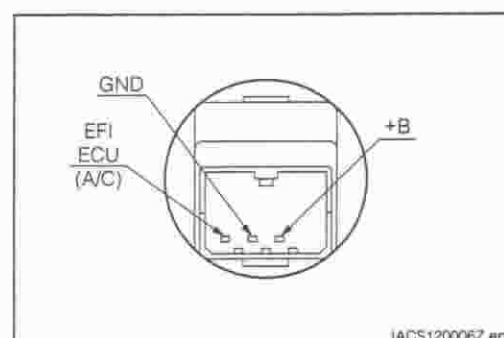
SPECIFIED VALUE: $2.3k\Omega$ (15°C), $1.5k\Omega$ (25°C)



13-2-3 A/C SWITCH

1. Check the conductivity between the A/C switch terminals.

SPECIFIED VALUE: Between +B-GND: No conductivity
Between EFI ECU-GND: When no conductivity, between EFI ECU-+B: Conductivity
Between EFI ECU-+B: When no conductivity, between EFI ECU-GND: Conductivity
The terminals having conductivity change depending on how much the switch is pressed.

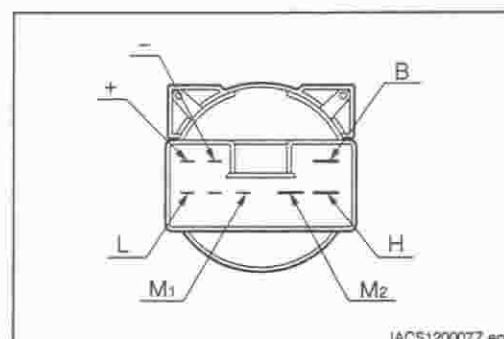


AC-AC-U-3-00001

13-2-4 BLOWER SWITCH

1. Check the conductivity between the blower switch terminals.

SPECIFIED VALUE: Conductivity table



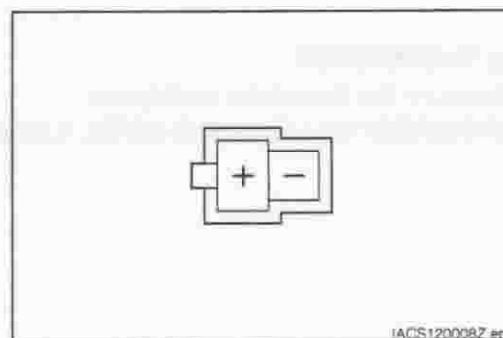
AC-34

Position \ Terminal	B	L	M1	M2	H
OFF	○				
1	○	○			
2	○	○	○		
3	○	○		○	
4	○	○			○

IACS120009E.eps
AC-AC-U-4-00001

13-2-5 BLOWER MOTOR

1. Confirm that the motor turns when a voltage is applied between the blower motor terminals.



IACS120008Z.eps
AC-AC-U-5-00001