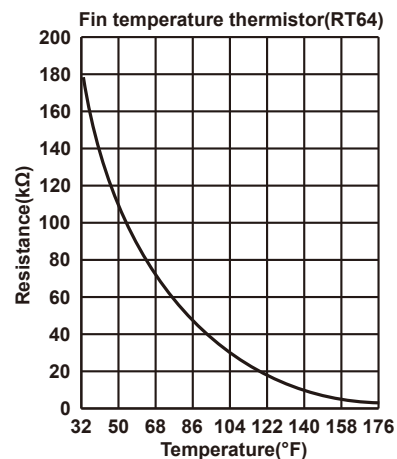
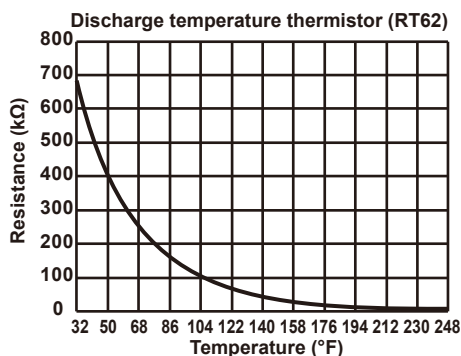
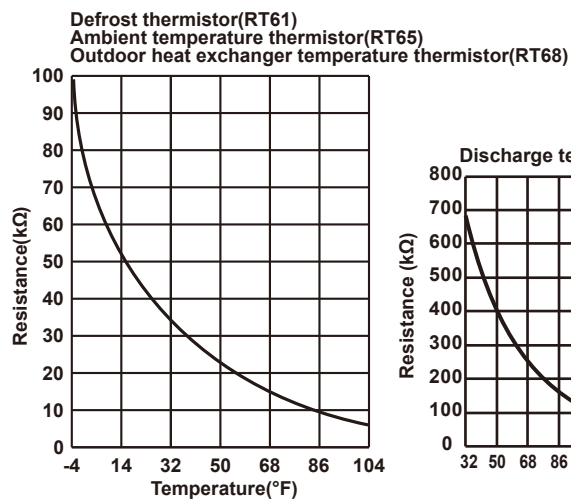
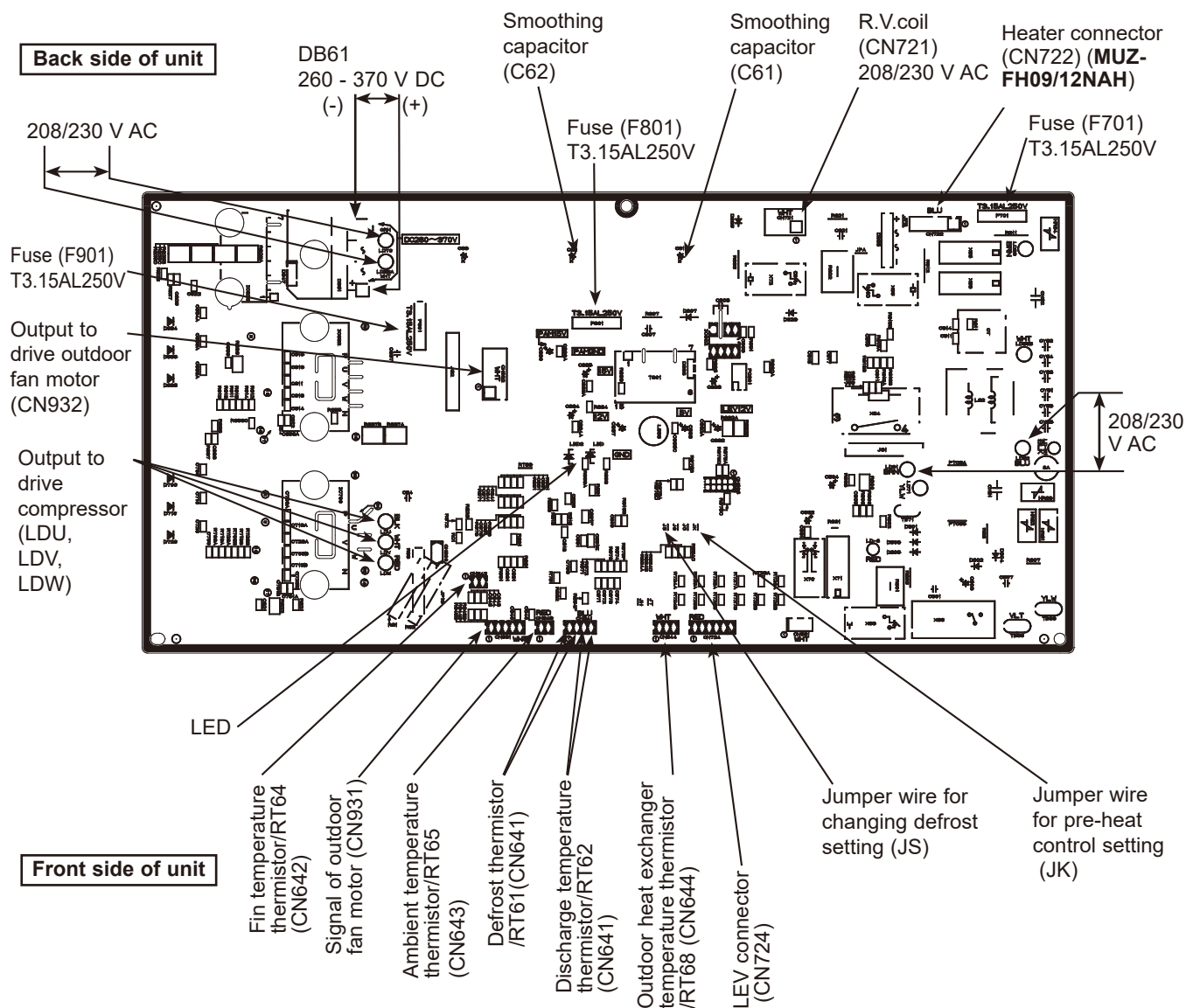


MUZ-FH09NA MUZ-FH09NAH MUZ-FH12NA MUZ-FH12NAH



MUZ-FH15NA
MUZ-FH15NAH
MUZ-FH18NA
MUZ-FH18NA2
MUZ-FH18NAH
MUZ-FH18NAH2

Heater connector
 (CN601)
 208/230 V AC
 (MUZ-FH15NAH
 MUZ-FH18NAH
 MUZ-FH18NAH2)

Signal of out-
 door fan motor
 (CN931)

Output to
 drive outdoor
 fan motor
 (CN932)

Fuse (F901)
 T3.15AL250V

Fuse (F880)
 T3.15AL250V

JP715 (+)
 294 - 370 V DC
 JP30 (-)

Fuse (F601)
 T3.15AL250V

R.V. coil (CN602)
 208/230 V AC

LEV connector (CN724)

LED

Defrost thermistor
 /RT61 (CN671)

Discharge temperature
 thermistor/RT62
 (CN671)

Outdoor heat exchanger
 temperature thermistor
 /RT68 (CN671)

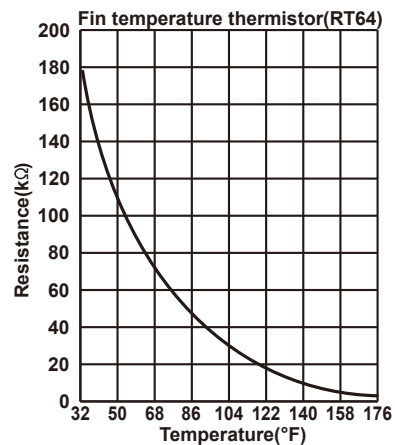
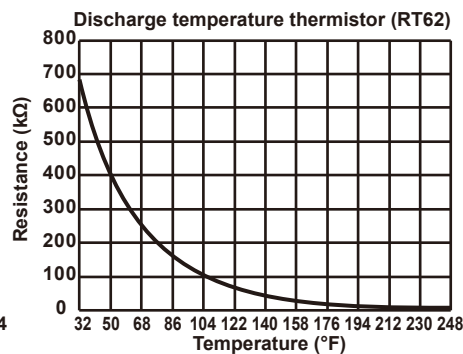
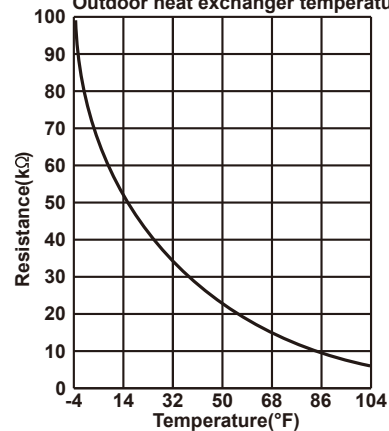
Ambient temperature
 thermistor/RT65
 (CN672)

Fin temperature
 thermistor/RT64
 (CN673)

Jumper wire for
 changing defrost
 setting (JS)

Jumper wire for
 pre-heat control
 setting (JK)

Defrost thermistor(RT61)
 Ambient temperature thermistor(RT65)
 Outdoor heat exchanger temperature thermistor(RT68)



<Detaching method of the terminal with locking mechanism>

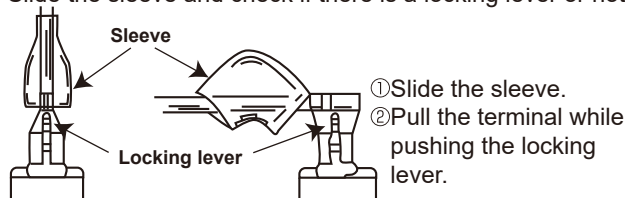
The terminal which has the locking mechanism can be detached as shown below.

There are 2 types of the terminal with locking mechanism.

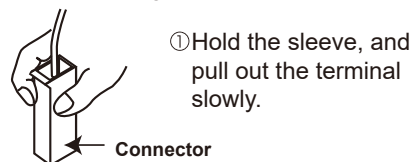
The terminal without locking mechanism can be detached by pulling it out.

Check the shape of the terminal before detaching.

(1) Slide the sleeve and check if there is a locking lever or not.



(2) The terminal with the connector shown below has the locking mechanism.



11-1. MUZ-FH06NA MUZ-FH06NAH MUZ-FH09NA MUZ-FH09NAH MUZ-FH12NA MUZ-FH12NAH

NOTE: Turn OFF the power supply before disassembly.

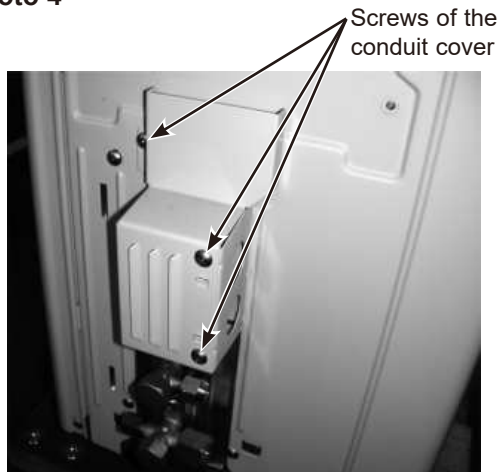
→ : Indicates the visible parts in the photos/figures.

---→ : Indicates the invisible parts in the photos/figures.

OPERATING PROCEDURE	PHOTOS/FIGURES
1. Removing the cabinet (1) Remove the screw fixing the service panel. (2) Pull down the service panel and remove it. (3) Remove the screws fixing the conduit cover. (4) Remove the conduit cover. (Photo 4) (5) Remove the screw fixing the conduit plate. (Photo 5) (6) Remove the conduit plate. (7) Disconnect the power supply wire and indoor/outdoor connecting wire. (8) Remove the screws fixing the top panel. (9) Remove the top panel. (10) Remove the screws fixing the cabinet. (11) Remove the cabinet. (12) Remove the screws fixing the back panel. (13) Remove the back panel. Photo 2	Photo 1 Photo 3

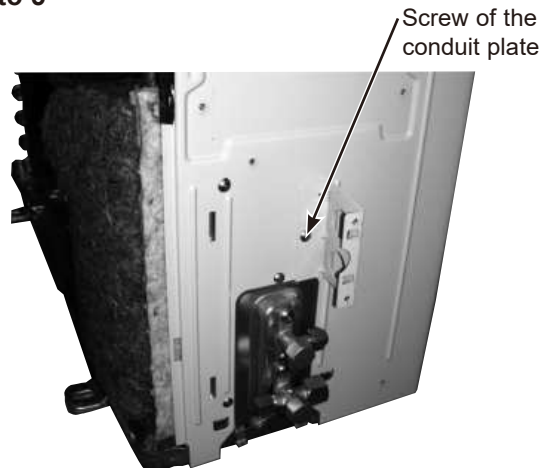
OPERATING PROCEDURE

Photo 4



PHOTOS/FIGURES

Photo 5

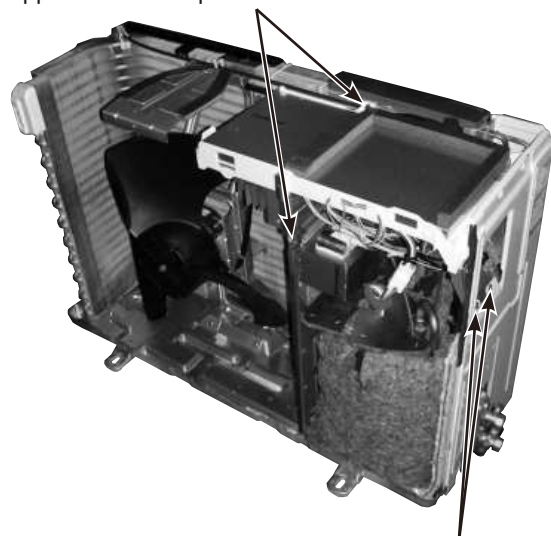


2. Removing the inverter assembly, inverter P.C. board

- (1) Remove the cabinet and panels. (Refer to section 1.)
- (2) Disconnect the lead wire to the reactor and the following connectors:
 <Inverter P.C. board>
 CN721 (R.V. coil)
 CN722 (Defrost heater and heater protector) (**MUZ-FH06/09/12NAH**)
 CN931, CN932 (Fan motor)
 CN641 (Defrost thermistor and discharge temperature thermistor)
 CN643 (Ambient temperature thermistor)
 CN644 (Outdoor heat exchanger temperature thermistor)
 CN724 (LEV)
- (3) Remove the compressor connector (CN61).
- (4) Remove the screws fixing the heat sink support and the separator.
- (5) Remove the fixing screws of the terminal block support and the back panel.
- (6) Remove the inverter assembly.
- (7) Remove the screw of the ground wire and screw of the terminal block support.
- (8) Remove the heat sink support from the P.C. board support.
- (9) Remove the screw of the inverter P.C. board and remove the inverter P.C. board from the P.C. board support.

Photo 6

Screws of the heat sink support and the separator

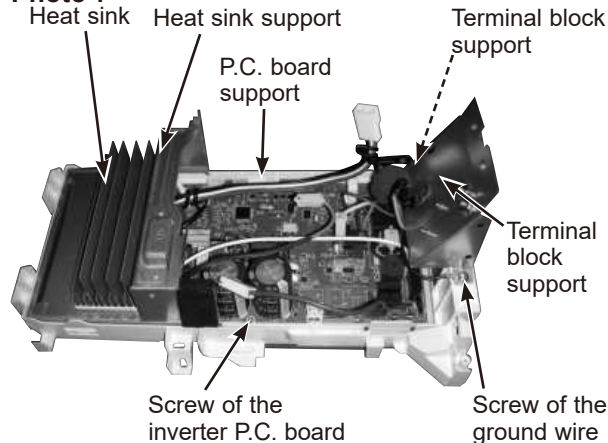


Screws of the terminal block support and the back panel

3. Removing R.V. coil

- (1) Remove the cabinet and panels. (Refer to section 1.)
- (2) Disconnect the following connectors:
 <Inverter P.C. board>
 CN721 (R.V. coil)
- (3) Remove the R.V. coil.

Photo 7



OPERATING PROCEDURE

4. Removing the discharge temperature thermistor, defrost thermistor, outdoor heat exchanger temperature thermistor and ambient temperature thermistor

- (1) Remove the cabinet and panels. (Refer to section 1.)
- (2) Disconnect the lead wire to the reactor and the following connectors:
 - <Inverter P.C. board>
 - CN641 (Defrost thermistor and discharge temperature thermistor)
 - CN643 (Ambient temperature thermistor)
 - CN644 (Outdoor heat exchanger temperature thermistor)
- (3) Pull out the discharge temperature thermistor from its holder.
- (4) Pull out the defrost thermistor from its holder. (Photo 6)
- (5) Pull out the outdoor heat exchanger temperature thermistor from its holder. (Photo 6)
- (6) Pull out the ambient temperature thermistor from its holder.

PHOTOS/FIGURES

Photo 8

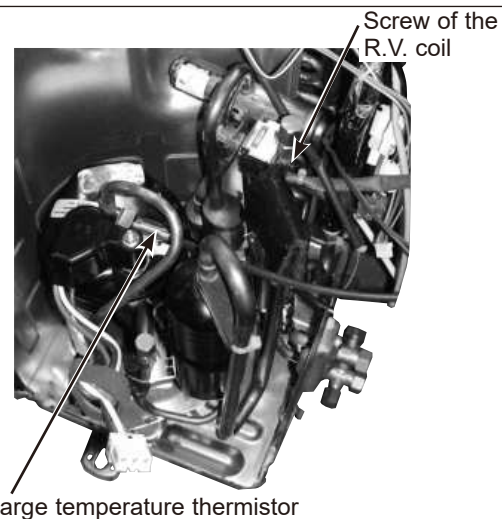


Photo 9

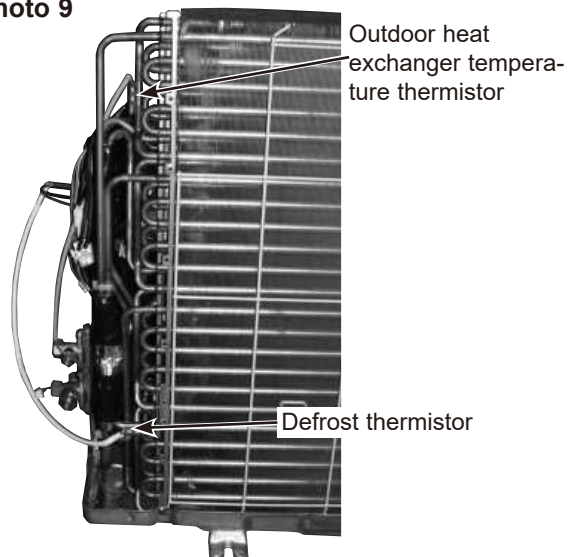
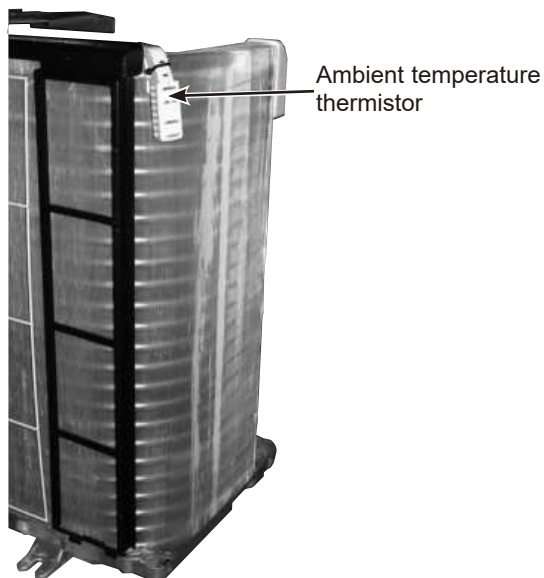


Photo 10



OPERATING PROCEDURE

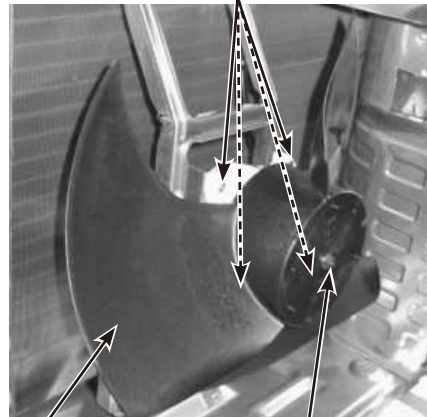
5. Removing outdoor fan motor

- (1) Remove the cabinet and panels. (Refer to section 1.)
- (2) Disconnect the following connectors:
<Inverter P.C. board>
CN931, CN932 (Fan motor)
- (3) Remove the propeller fan nut.
- (4) Remove the propeller fan.
- (5) Remove the screws fixing the fan motor.
- (6) Remove the fan motor.

PHOTOS/FIGURES

Photo 11

Screws of the outdoor fan motor



Propeller fan

Propeller fan nut

6. Removing the compressor and 4-way valve

- (1) Remove the cabinet and panels. (Refer to section 1.)
- (2) Remove the inverter assembly. (Refer to section 2.)
- (3) Remove the screws fixing the reactor.
- (4) Remove the reactor.
- (5) Remove the soundproof felt.
- (6) Recover gas from the refrigerant circuit.
NOTE: Recover gas from the pipes until the pressure gauge shows 0 PSIG.
- (7) Detach the brazed part of the suction and the discharge pipe connected with compressor.
- (8) Remove the nuts fixing the compressor.
- (9) Remove the compressor.
- (10) Detach the brazed part of pipes connected with 4-way valve.

Photo 12

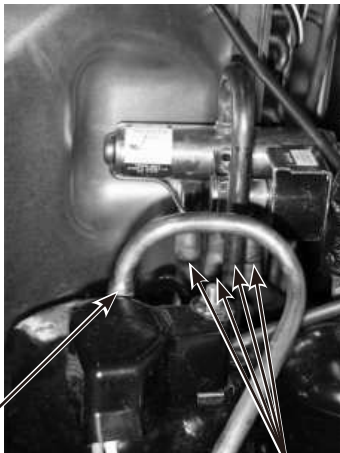
Screws of the reactor



Soundproof felt

Suction pipe brazed part

Photo 13

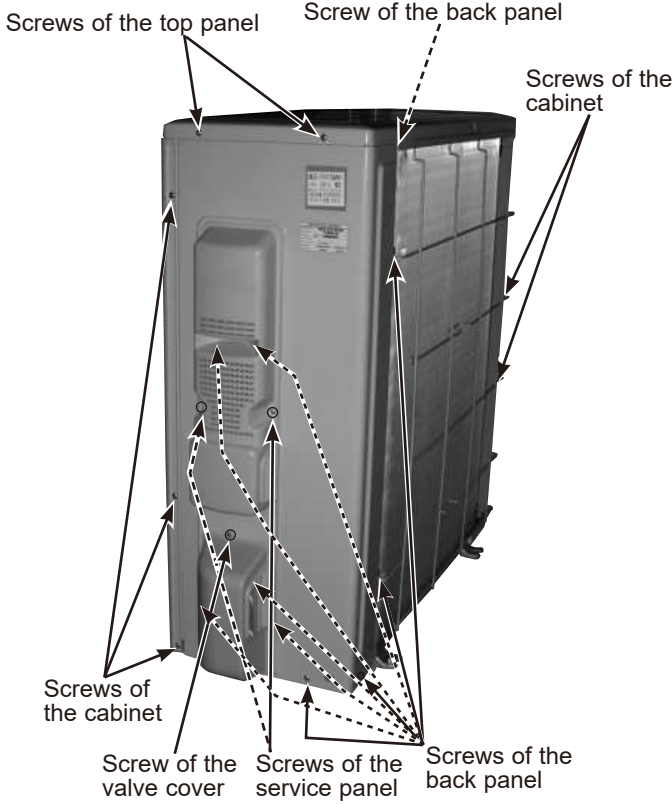
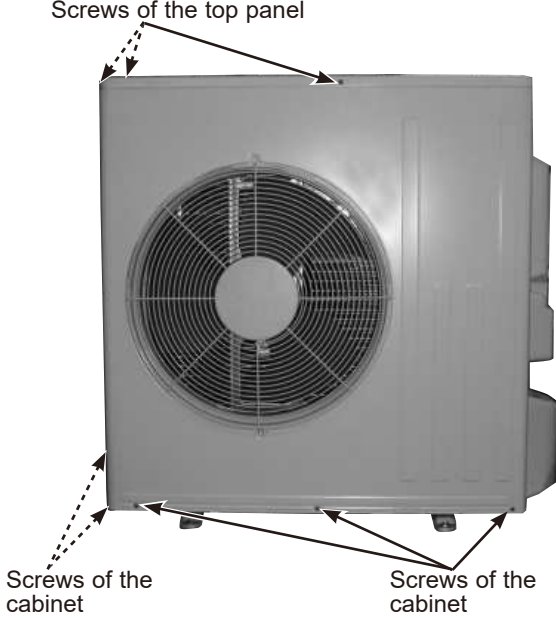
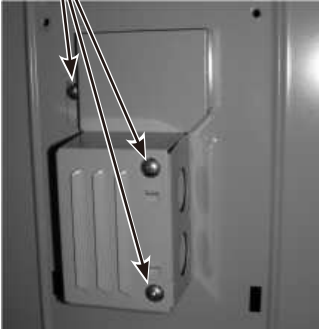


Discharge pipe brazed part

Brazed parts of 4-way valve

11-2. MUZ-FH15NA MUZ-FH15NAH MUZ-FH18NA MUZ-FH18NAH MUZ-FH18NA2 MUZ-FH18NAH2

NOTE: Turn OFF the power supply before disassembly.

OPERATING PROCEDURE	PHOTOS/FIGURES
1. Removing the cabinet (1) Remove the screws of the service panel. (2) Remove the screws of the top panel. (3) Remove the screw of the valve cover. (4) Remove the service panel. (5) Remove the screws fixing the conduit cover. (6) Remove the conduit cover. (7) Remove the screw of fixing the conduit plate. (8) Remove the conduit plate. (9) Remove the top panel. (10) Remove the valve cover. (11) Disconnect the power supply and indoor/outdoor connecting wire. (12) Remove the screws of the cabinet. (13) Remove the cabinet. (14) Remove the screws of the back panel. (15) Remove the back panel. Photo 2 	Photo 1  Photo 3  Photo 4 

OPERATING PROCEDURE

2. Removing the inverter assembly, inverter P.C. board and relay P.C. board

- (1) Remove the cabinet and panels. (Refer to section 1.)
- (2) Disconnect the lead wire to the reactor and the following connectors:
 <Inverter P.C. board>
 CN602 (R.V. coil)
 CN931, CN932 (Fan motor)
 CN671 (Defrost thermistor, discharge temperature thermistor and outdoor heat exchanger temperature thermistor)
 CN672 (Ambient temperature thermistor)
 CN724 (LEV)
 CN601 (Defrost heater and heater protector)
(MUZ-FH15/18NAH/18NAH2)
- (3) Remove the compressor connector.
- (4) Remove the screws fixing the relay panel.
- (5) Remove the relay panel.
- (6) Remove the ground wires and the lead wires of the inverter P.C. board.
- (7) Remove the screws of the P.B. support.
- (8) Remove the inverter P.C. board from the P.B. support.

3. Removing R.V. coil

- (1) Remove the cabinet and panels. (Refer to section 1.)
- (2) Disconnect the following connector:
 <Inverter P.C. board>
 CN602 (R.V. coil)
- (3) Remove the R.V. coil.

PHOTOS/FIGURES

Photo 5

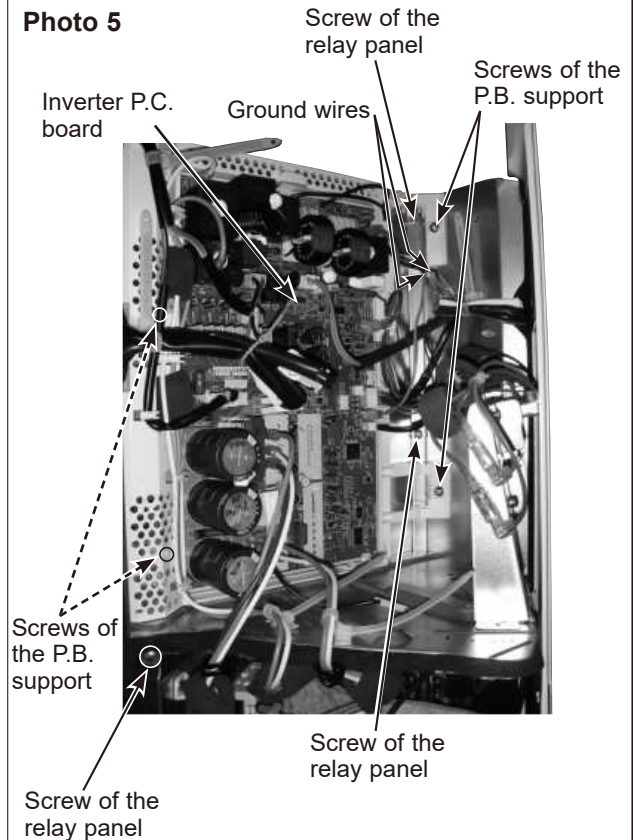
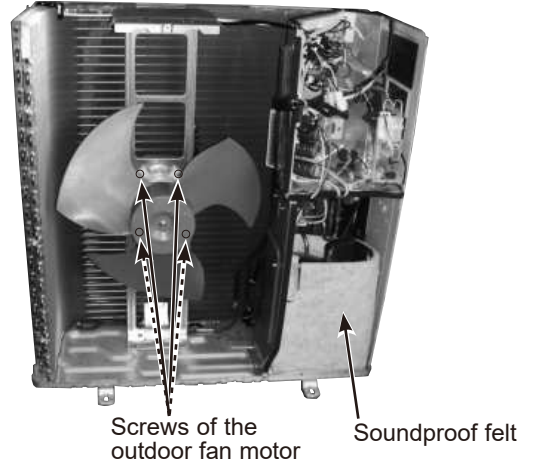
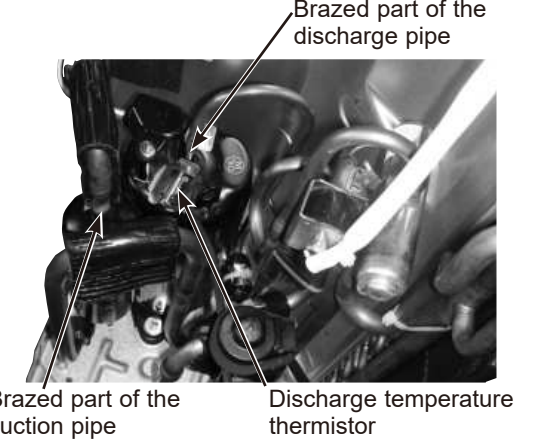


Photo 6



OPERATING PROCEDURE	PHOTOS/FIGURES
4. Removing the discharge temperature thermistor, defrost thermistor, outdoor heat exchanger temperature thermistor and ambient temperature thermistor (1) Remove the cabinet and panels. (Refer to section 1.) (2) Disconnect the lead wire to the reactor and the following connectors: <Inverter P.C. board> CN671 (Defrost thermistor, discharge temperature thermistor and outdoor heart exchanger temperature thermistor) CN672 (Ambient temperature thermistor) (3) Pull out the discharge temperature thermistor from its holder. (4) Pull out the defrost thermistor from its holder. (5) Pull out the outdoor heat exchanger temperature thermistor from its holder. (6) Pull out the ambient temperature thermistor from its holder.	Photo 7 
5. Removing outdoor fan motor (1) Remove the top panel, cabinet and service panel. (Refer to section 1.) (2) Disconnect the following connectors: <Inverter P.C. board> CN931 and CN932 (Fan motor) (3) Remove the propeller fan. (4) Remove the screws fixing the fan motor. (5) Remove the fan motor.	Photo 8 
6. Removing the compressor and 4-way valve (1) Remove the top panel, cabinet and service panel. (Refer to section 1.) (2) Remove the back panel. (Refer to section 1.) (3) Remove the inverter assembly. (Refer to section 2.) (4) Remove the soundproof felt. (5) Recover gas from the refrigerant circuit. NOTE: Recover gas from the pipes until the pressure gauge shows 0 PSIG. (6) Detach the brazed part of the suction and the discharge pipe connected with compressor. (7) Remove the nuts fixing the compressor. (8) Remove the compressor. (9) Detach the brazed parts of 4-way valve and pipe. (Photo 4)	Photo 9 

mitsubishi electric corporation

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