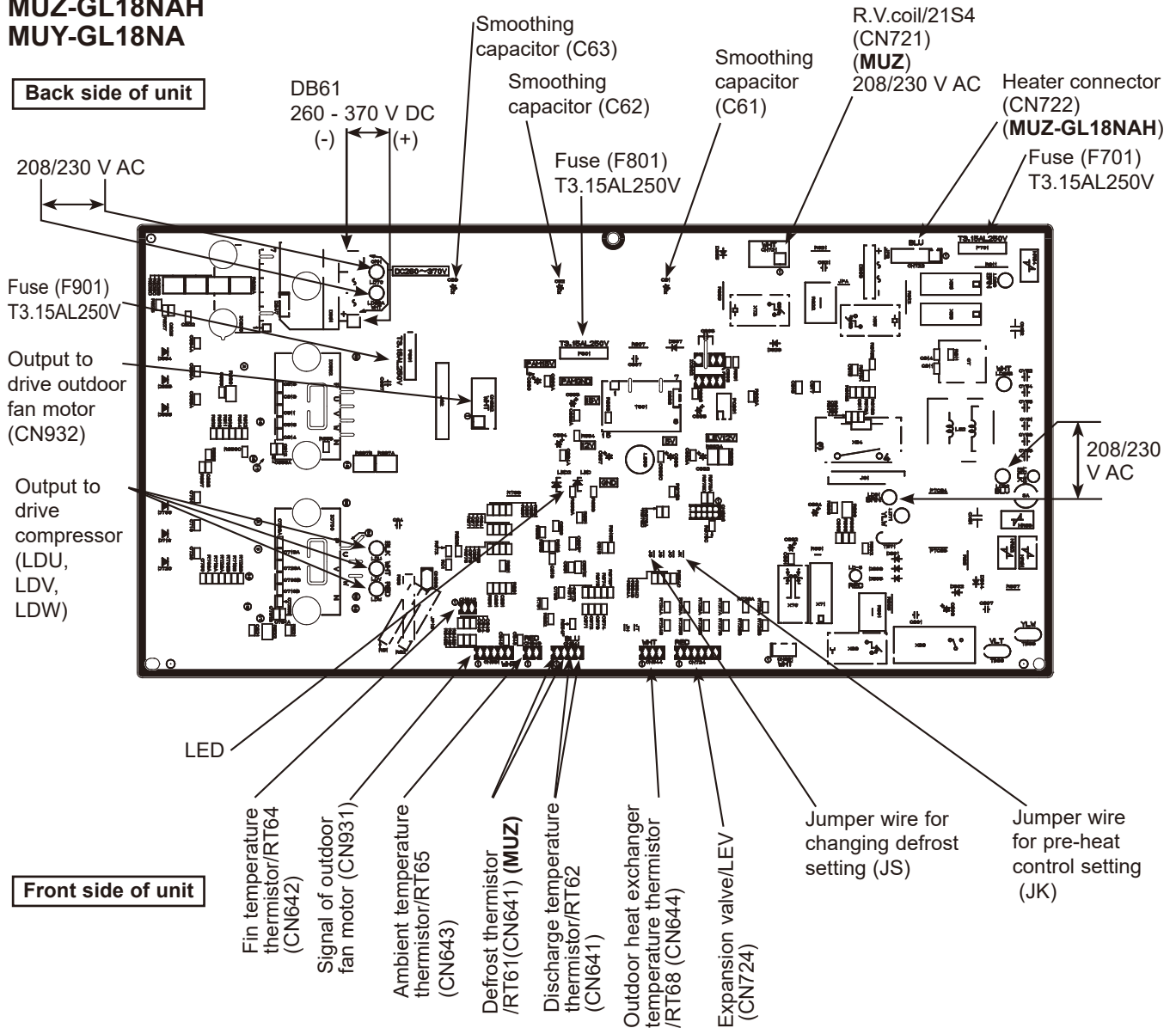
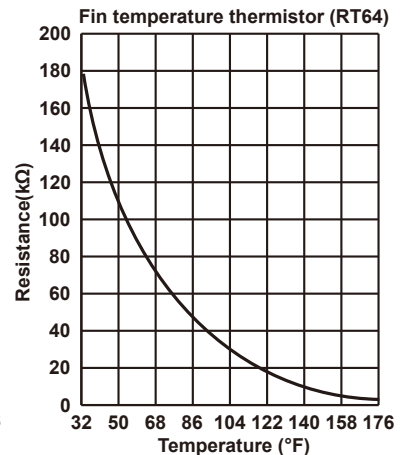
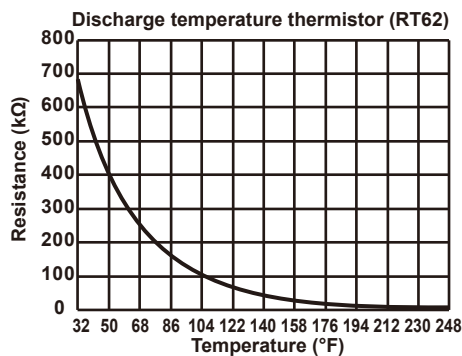
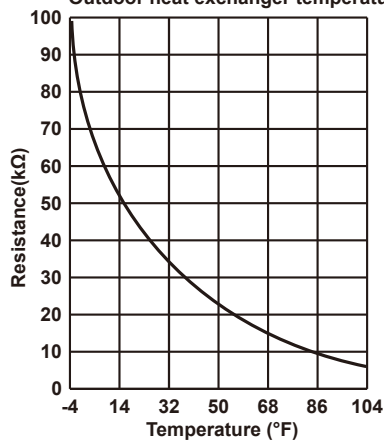


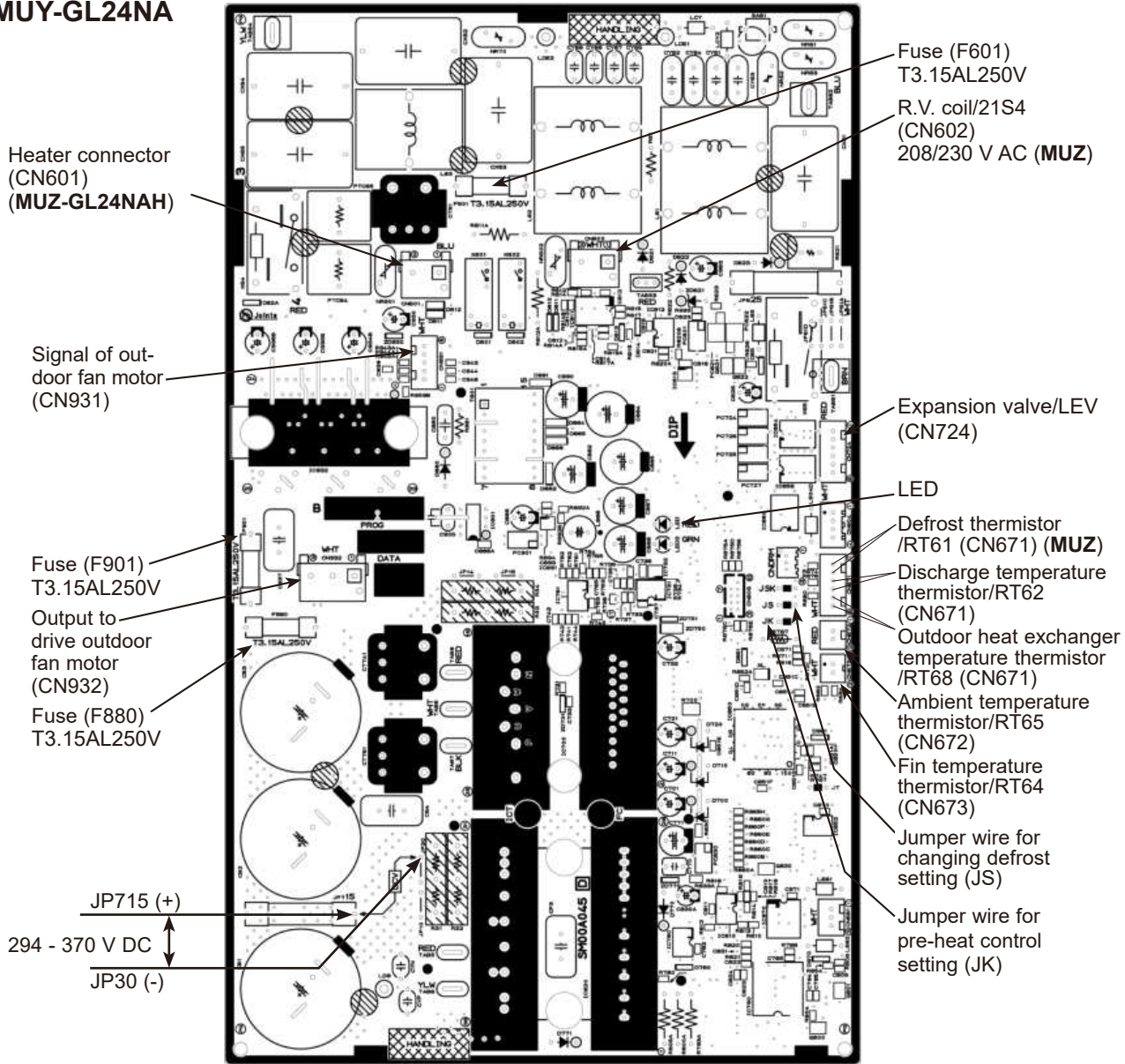
MUZ-GL18NA
MUZ-GL18NAH
MUY-GL18NA



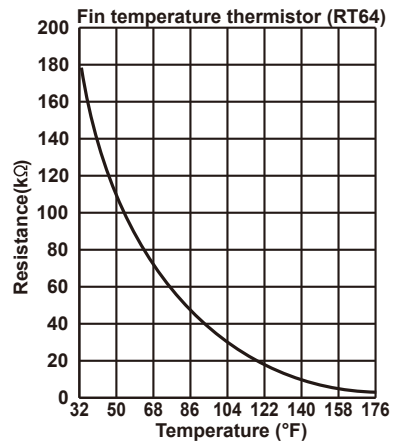
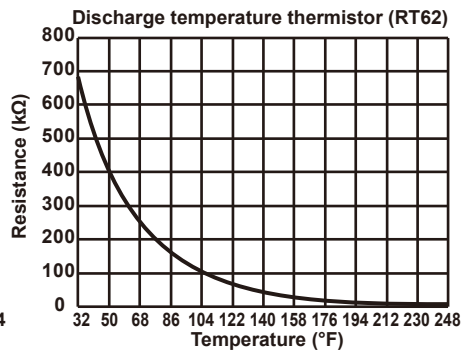
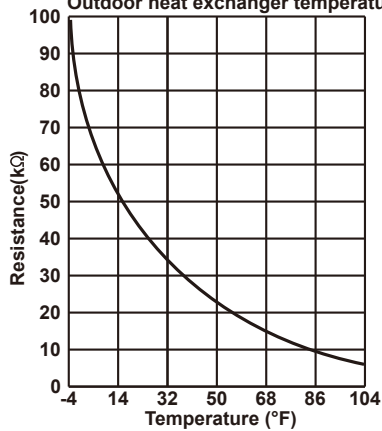
Defrost thermistor (RT61)
 Ambient temperature thermistor (RT65)
 Outdoor heat exchanger temperature thermistor (RT68)



**MUZ-GL24NA
MUZ-GL24NAH
MUY-GL24NA**



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



<Detaching method of the terminals with locking mechanism>

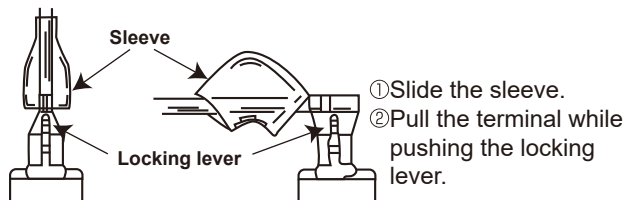
The terminal which has the locking mechanism can be detached as shown below.

There are 2 types of the terminal with locking mechanism.

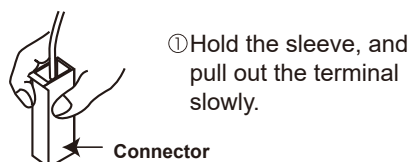
The terminal without locking mechanism can be detached by pulling it out.

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-GL09NA MUZ-GL09NAH MUY-GL09NA MUZ-GL12NA MUZ-GL12NAH MUY-GL12NA MUZ-GL15NA MUZ-GL15NAH MUY-GL15NA

NOTE: Turn OFF the power supply before disassembly.

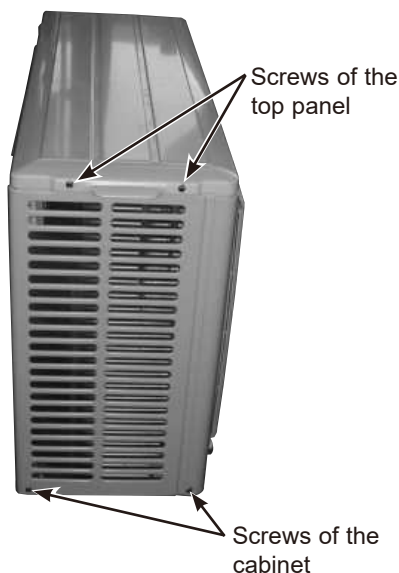
—————: Indicates the visible parts in the photos/figures.
-----: Indicates the invisible parts in the photos/figures.

OPERATING PROCEDURE

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



PHOTOS/FIGURES

Photo 1

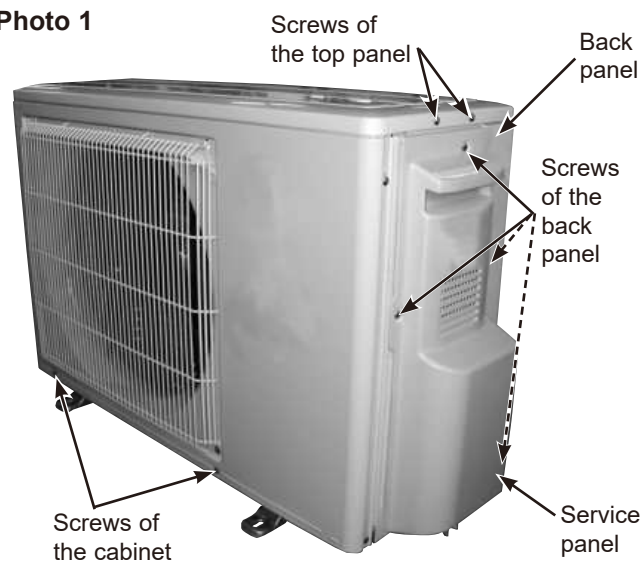
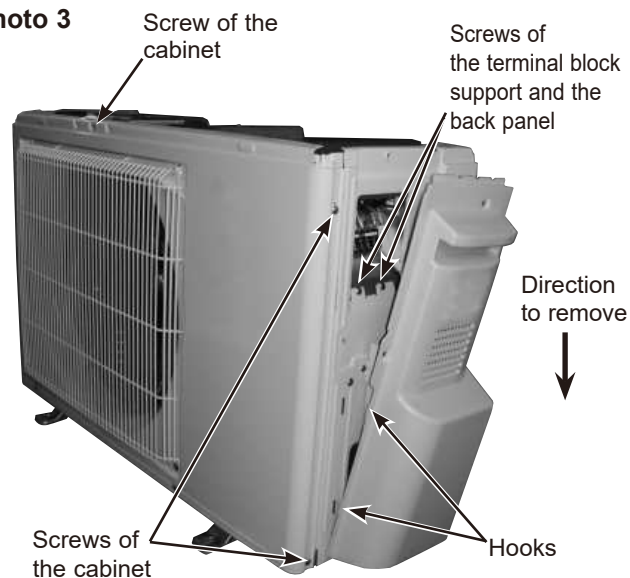
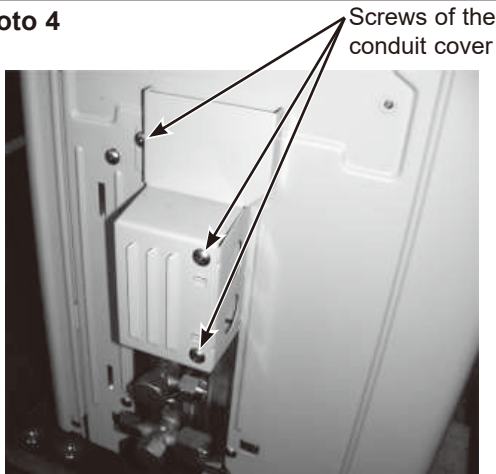


Photo 3



OPERATING PROCEDURE

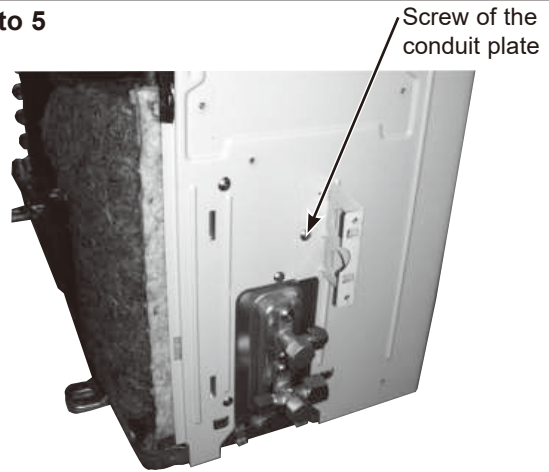
Photo 4



Screws of the
conduit cover

PHOTOS/FIGURES

Photo 5



Screw of the
conduit plate

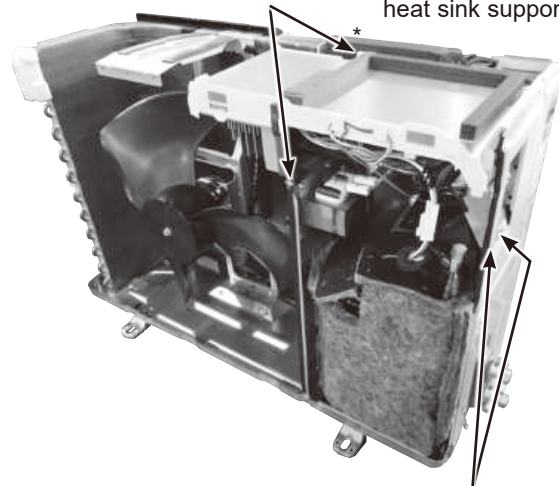
2. Removing the inverter assembly, inverter P.C. board

- (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) (**MUZ**)
CN722 (Defrost heater and heater protector) (**MUZ-GL09/12/15NAH**)
CN931, CN932 (Fan motor)
CN641 (Defrost thermistor (**MUZ**) 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

*U2 model does not
have a screw on the
heat sink support.

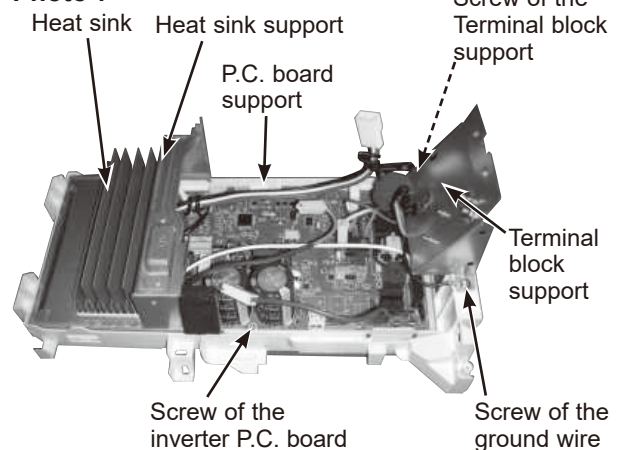


Screws of the terminal block
support and the back panel

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) (**MUZ**)
- (3) Remove the R.V. coil.

Photo 7



Heat sink Heat sink support

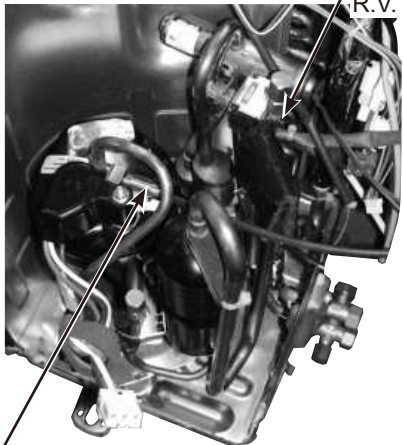
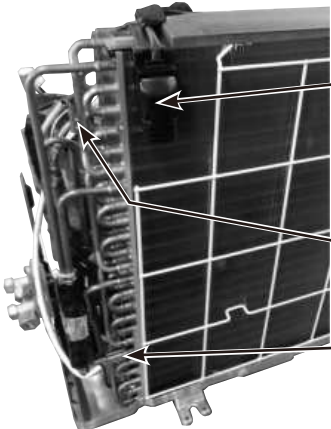
P.C. board
support

Screw of the
Terminal block
support

Terminal
block
support

Screw of the
inverter P.C. board

Screw of the
ground wire

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> - CN641 (Defrost thermistor (MUZ) 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. (5) Pull out the outdoor heat exchanger temperature thermistor from its holder. (6) Pull out the ambient temperature thermistor from its holder.	Photo 8  Screw of the R.V. coil (MUZ) Discharge temperature thermistor Photo 9  Ambient temperature thermistor Outdoor heat exchanger temperature thermistor Defrost thermistor (MUZ)

OPERATING PROCEDURE

5. Removing outdoor fan motor

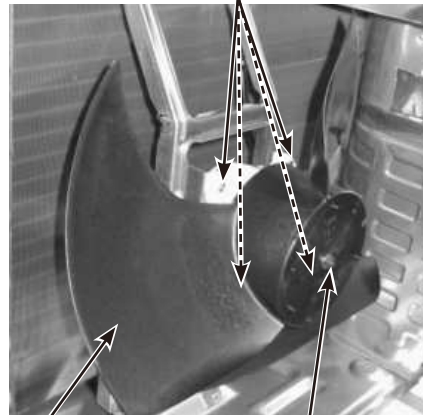
- (1) Remove the cabinet and panels. (Refer to section 1.)
- (2) Disconnect the following connectors:
<Inverter P.C. board>
CN931, CN932 (Fan motor)
- (3) Remove the propeller fan nut.
- (4) Remove the propeller fan.
- (5) Remove the screws fixing the fan motor.
- (6) Remove the fan motor.

NOTE: The propeller fan nut is a reverse thread.

PHOTOS/FIGURES

Photo 10

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 11

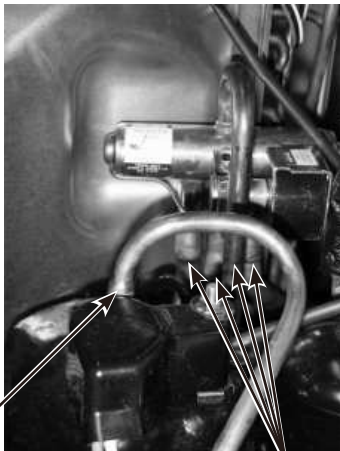
Screws of the reactor



Soundproof felt

Suction pipe brazed part

Photo 12

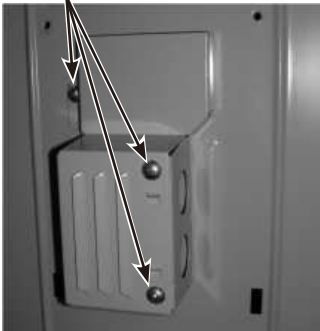
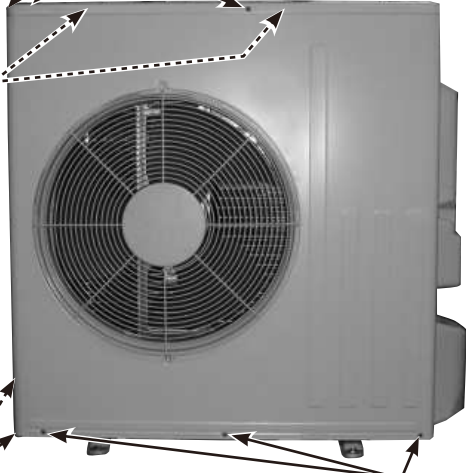
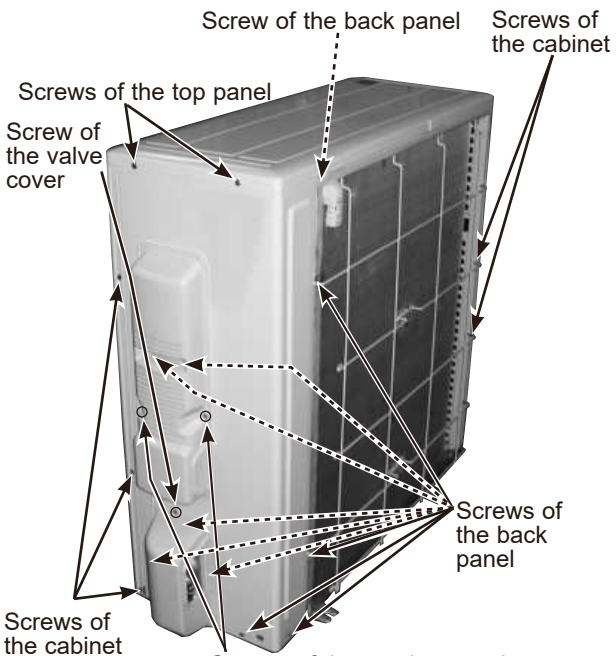


Discharge pipe brazed part

Brazed parts of 4-way valve

11-2. MUZ-GL18NA MUZ-GL18NAH MUY-GL18NA

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 3 Screws of the conduit cover  Photo 4 Screw of the conduit plate 	Photo 1 Screws of the top panel Screws of the cabinet  Photo 2 Screw of the back panel Screws of the cabinet Screws of the top panel Screw of the valve cover Screws of the back panel Screws of the service panel Screws of the cabinet 

OPERATING PROCEDURE

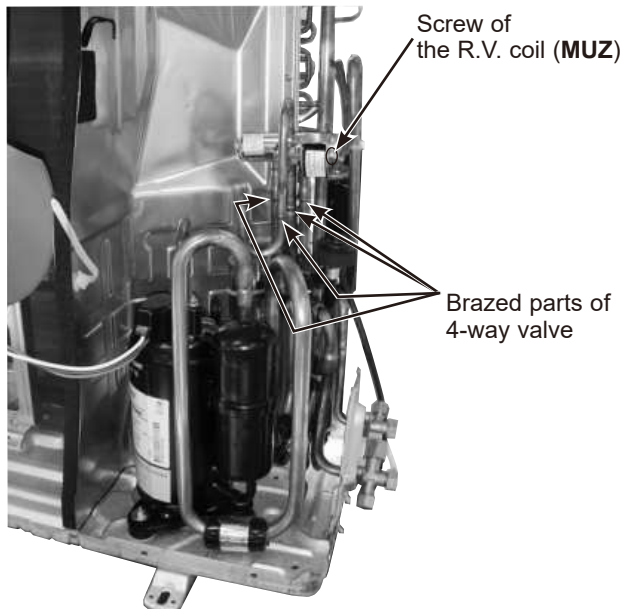
2. Removing the inverter assembly, inverter P.C. board

- (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) (**MUZ**)
 CN722 (Defrost heater and heater protector) (**MUZ-GL18NAH**)
 CN931, CN932 (Fan motor)
 CN641 (Defrost thermistor (**MUZ**) and discharge temperature thermistor)
 CN643 (Ambient temperature thermistor)
 CN644 (Outdoor heat exchanger temperature thermistor)
 CN724 (LEV)
- (3) Remove the compressor connector.
- (4) Remove the screw 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, screw of the P.C. board cover and screws 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 the inverter P.C. board from the P.C. board support.

3. Removing R.V. coil (**MUZ**)

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

Photo 7



PHOTOS/FIGURES

Photo 5

Screw of the heat sink support and the separator
 Screws of the terminal block support and the back panel

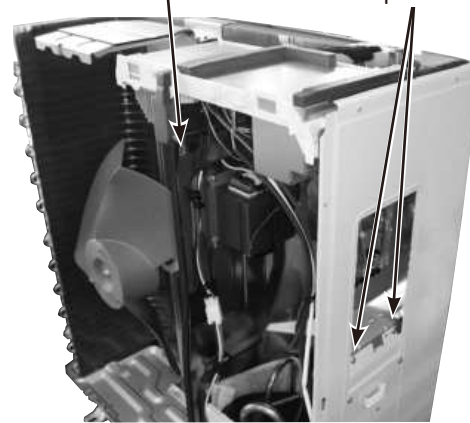
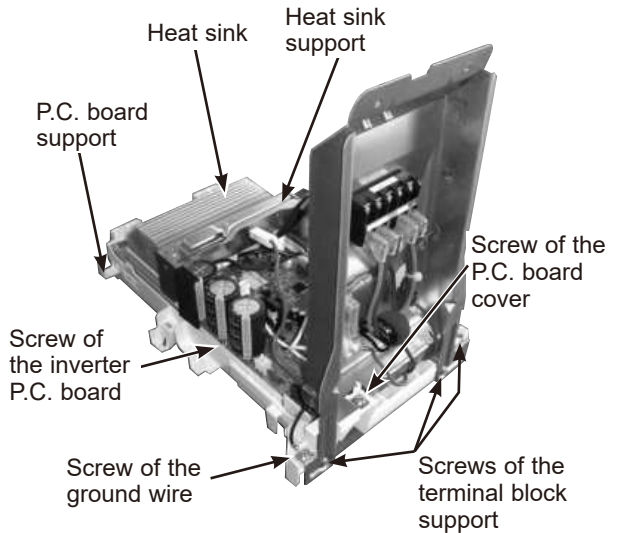
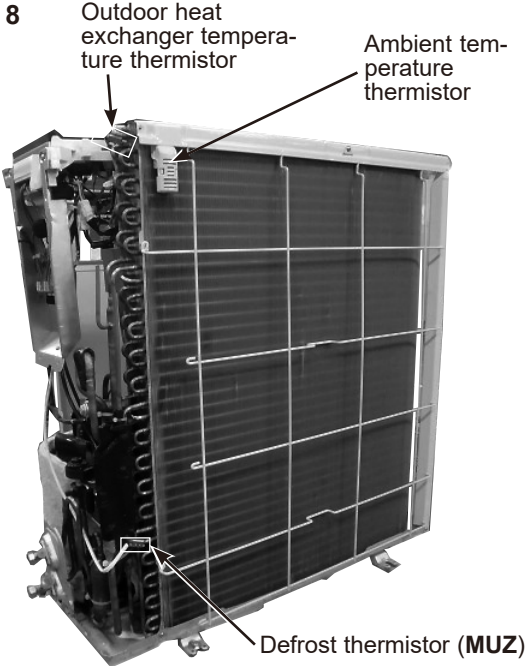
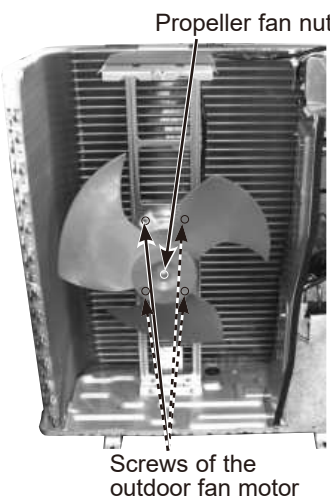
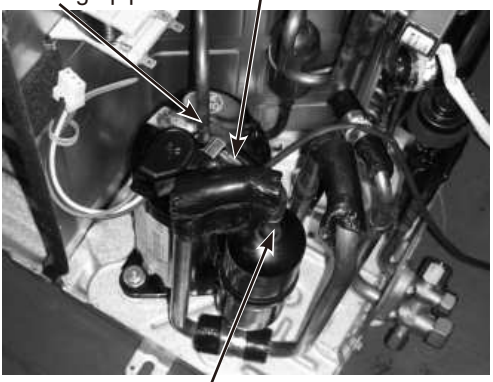


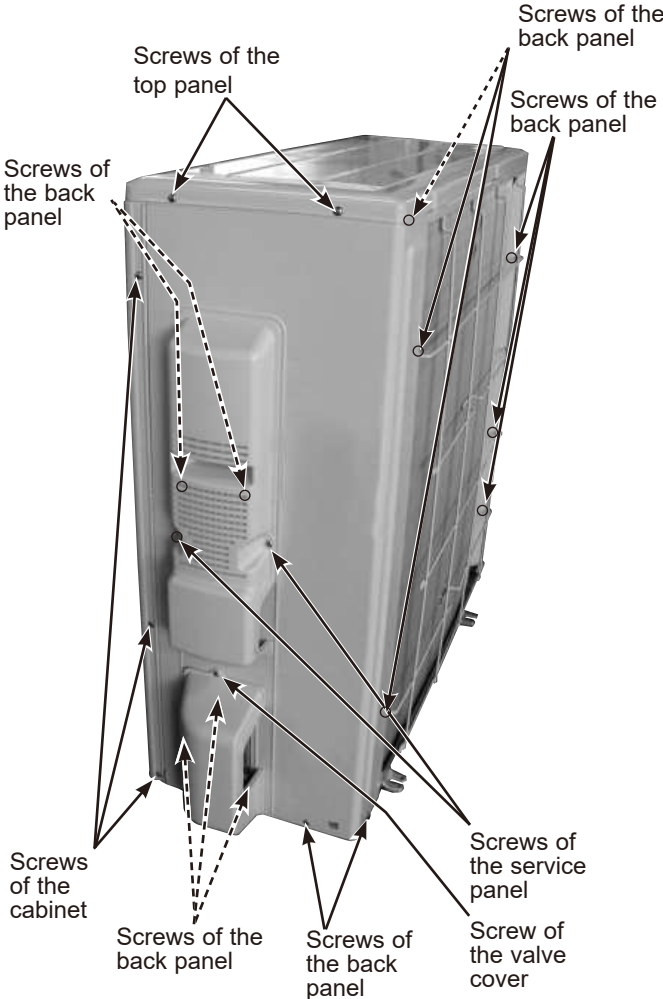
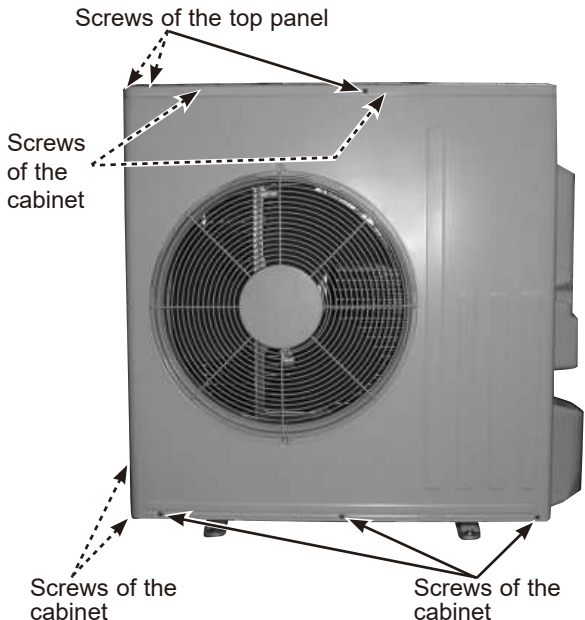
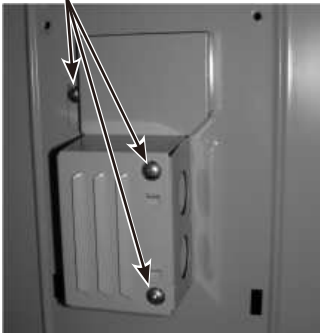
Photo 6

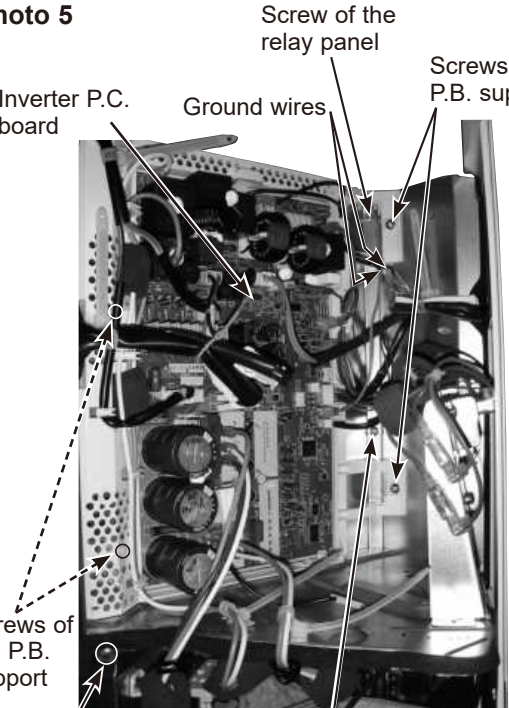
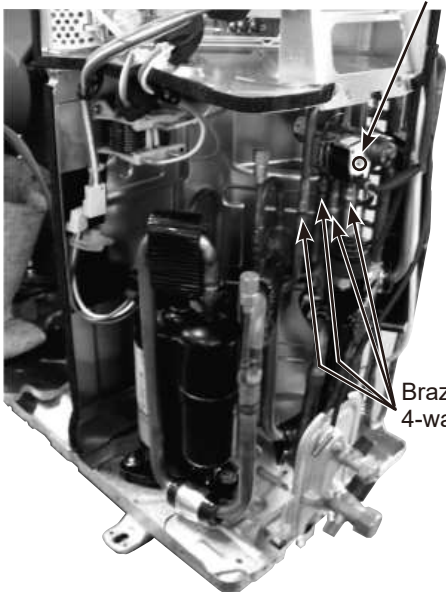


OPERATING PROCEDURE	PHOTOS/FIGURES
4. Removing the discharge temperature thermistor, defrost thermistor (MUZ), outdoor heat exchanger temperature thermistor and ambient temperature thermistor (1) Remove the cabinet and panels. (Refer to section 1.) (2) Disconnect the lead wire to the reactor and the following connectors: <Inverter P.C. board> CN641 (Defrost thermistor (MUZ) 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. (5) Pull out the outdoor heat exchanger temperature thermistor from its holder. (6) Pull out the ambient temperature thermistor from its holder.	Photo 8  Outdoor heat exchanger temperature thermistor Ambient temperature thermistor Defrost thermistor (MUZ)
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 nut. (4) Remove the propeller fan. (5) Remove the screws fixing the fan motor. (6) Remove the fan motor. NOTE: The propeller fan nut is a reverse thread.	Photo 9  Propeller fan nut Screws of the outdoor fan motor
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) Recover gas from the refrigerant circuit. NOTE: Recover gas from the pipes until the pressure gauge shows 0 PSIG. (5) Detach the brazed part of the suction and the discharge pipe connected with compressor. (6) Remove the compressor nuts. (7) Remove the compressor. (8) Detach the brazed part of 4-way valve and pipe. (Photo 7)	Photo 10  Brazed part of the discharge pipe Discharge temperature thermistor Brazed part of the suction pipe

11-3. MUZ-GL24NA MUZ-GL24NAH MUY-GL24NA

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 top panel. (8) Remove the valve cover. (9) Disconnect the power supply and indoor/outdoor connecting wire. (10) Remove the screws of the cabinet. (11) Remove the cabinet. (12) Remove the screws of the back panel. (13) Remove the back panel. Photo 2 	Photo 1  Photo 3  Photo 4 

OPERATING PROCEDURE	PHOTOS/FIGURES
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> CN601 (Defrost heater and heater protector) (MUZ-GL24NAH) CN602 (R.V. coil) (MUZ) CN931, CN932 (Fan motor) CN671 (Defrost thermistor (MUZ), discharge temperature thermistor and outdoor heat exchanger temperature thermistor) CN672 (Ambient temperature thermistor) CN724 (LEV) (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.	Photo 5  Screw of the relay panel Screws of the P.B. support Inverter P.C. board Ground wires Screw of the relay panel Screws of the P.B. support
3. Removing R.V. coil (MUZ) (1) Remove the cabinet and panels. (Refer to section 1.) (2) Disconnect the following connector: <Inverter P.C. board> CN602 (R.V. coil) (MUZ) (3) Remove the R.V. coil.	Photo 6  Screw of the R.V. coil (MUZ) Brazed parts of 4-way valve

OPERATING PROCEDURE

4. Removing the discharge temperature thermistor, defrost thermistor (MUZ), 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 (**MUZ**), discharge temperature thermistor and outdoor heat 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.

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.
- (4) Remove the screws fixing the fan motor.
- (5) Remove the fan motor.

NOTE: The propeller fan nut is a reverse thread.

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) Recover gas from the refrigerant circuit.
- NOTE:** Recover gas from the pipes until the pressure gauge shows 0 PSIG.
- (5) Detach the brazed part of the suction and the discharge pipes connected with compressor.
 - (6) Remove the compressor nuts.
 - (7) Remove the compressor.
 - (8) Detach the brazed parts of 4-way valve and pipes. (Photo 6)

PHOTOS/FIGURES

Photo 7

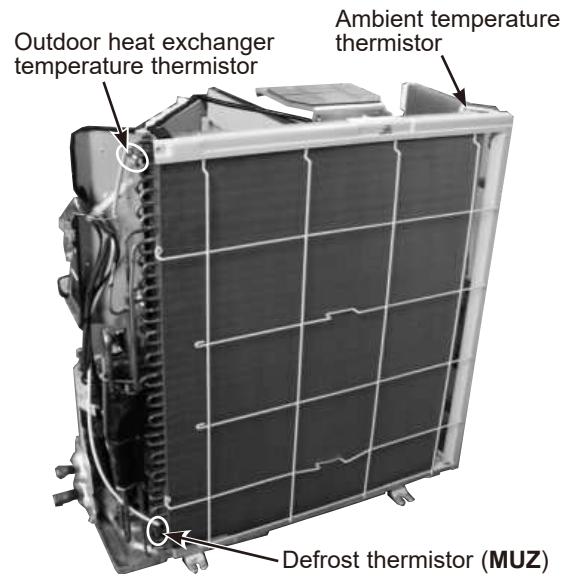


Photo 8

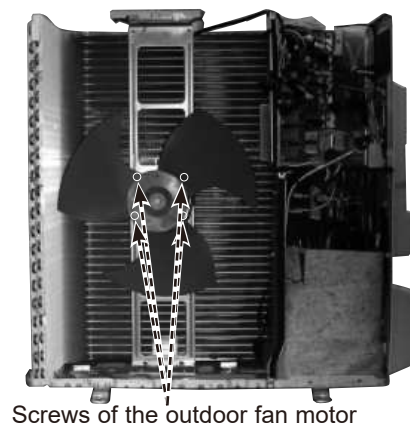
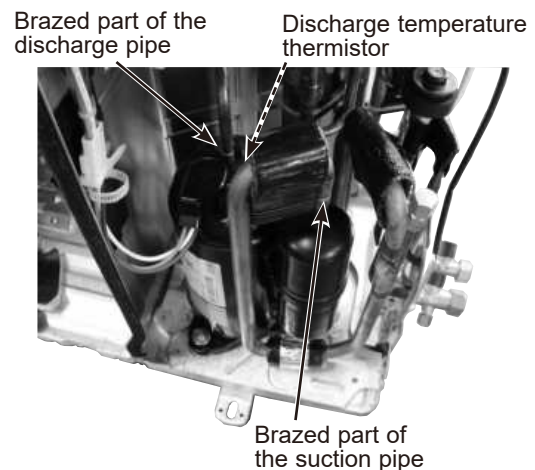


Photo 9



mitsubishi electric corporation

HEAD OFFICE: TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

© Copyright 2015 MITSUBISHI ELECTRIC CORPORATION

Issued: Jun. 2021. No. OBH733 REVISED EDITION-J

Issued: Aug. 2019. No. OBH733 REVISED EDITION-H

Issued: Apr. 2019. No. OBH733 REVISED EDITION-G

Issued: Nov. 2018. No. OBH733 REVISED EDITION-F

Issued: Jul. 2017. No. OBH733 REVISED EDITION-E

Issued: Mar. 2017. No. OBH733 REVISED EDITION-D

Issued: Sep. 2016. No. OBH733 REVISED EDITION-C

Issued: Jan. 2016. No. OBH733 REVISED EDITION-B

Issued: Nov. 2015. No. OBH733 REVISED EDITION-A

Published: Sep. 2015. No. OBH733

Made in Japan

Specifications are subject to change without notice.