

PUZ-A18NHA3 PUZ-A18NHA3-BS

OPERATING PROCEDURE

1. Removing the top panel, service panel, front panel and back panel

- (1) Remove the top panel fixing screws (4 × 10), one from the right and two from the left side, and detach the top panel.
- (2) Remove 1 service panel fixing screw (4 × 10) and detach the service panel by pulling it downward. (See photo 1.)
- (3) Remove the front panel fixing screws (4 × 10), 5 from the front, 2 from the right and 2 from the left side, and detach the front panel.
- (4) Remove the conduit cover and cord cover fixing screw (2 pcs. 4 × 10), and detach the conduit cover and cord cover. (See photo 2.)
- (5) Remove the back panel fixing screws (4 × 10), 4 from the right and 3 from the rear side, and detach the back panel.

PHOTOS

Photo 1

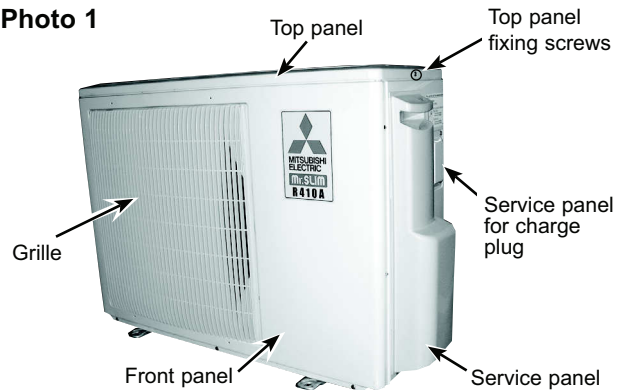
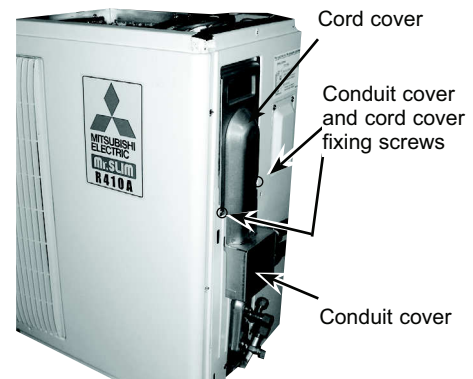


Photo 2

**2. Removing the fan motor**

- (1) Remove the top panel. (See photo 1.)
- (2) Remove the front panel. (See photo 1.)
- (3) Remove 1 nut (M6, left-screw) and detach the propeller.
- (4) Disconnect the connector CNF1 on the controller circuit board in the electrical parts box.
- (5) Loosen the clamp for the lead wire in the motor support.
- (6) Remove 4 fan motor fixing screws (4 × 18) and detach the fan motor. (See photo 3.)

Photo 3

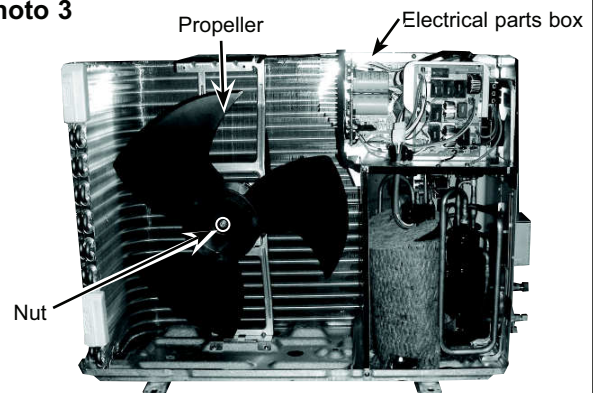
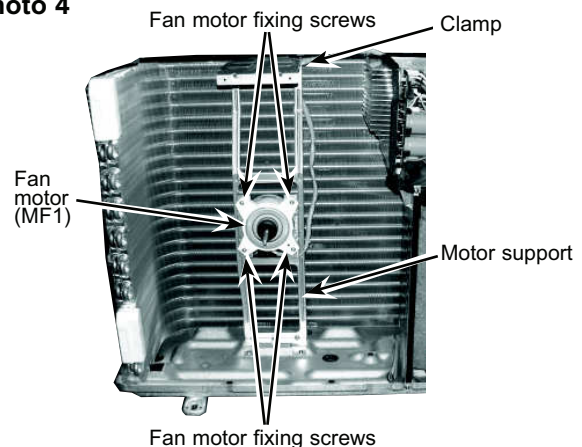
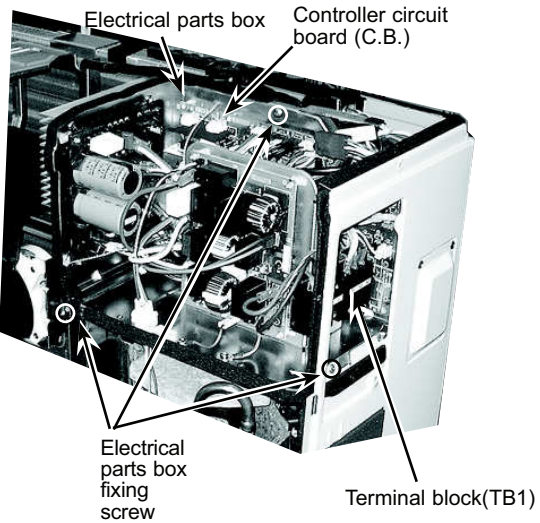
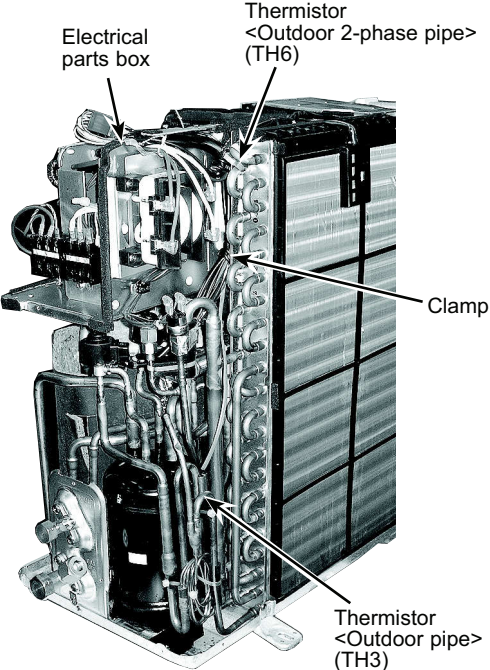
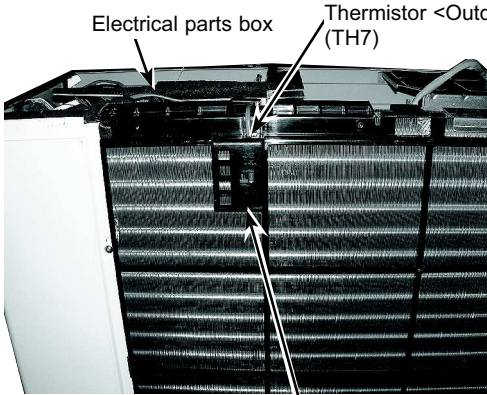
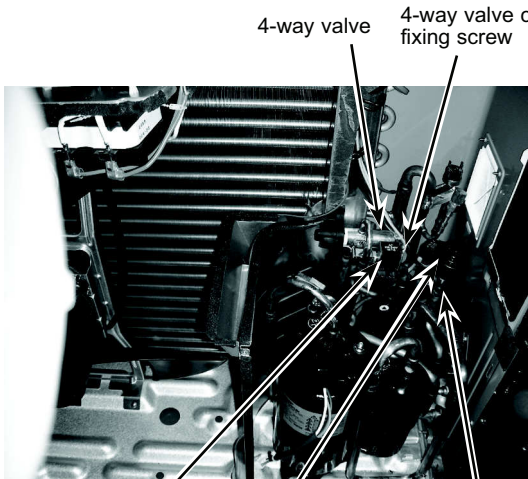
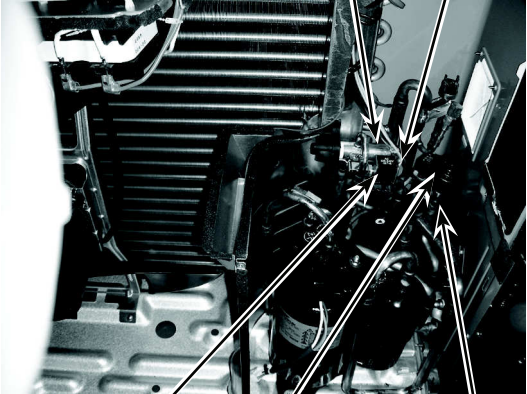
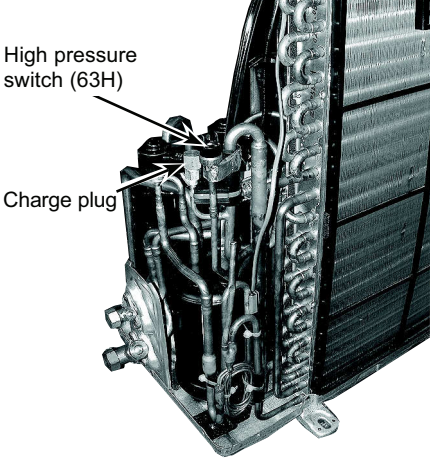
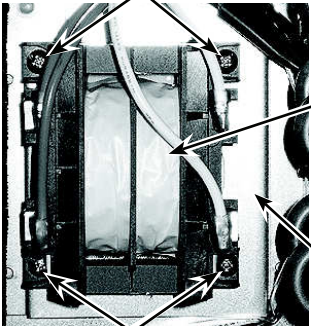


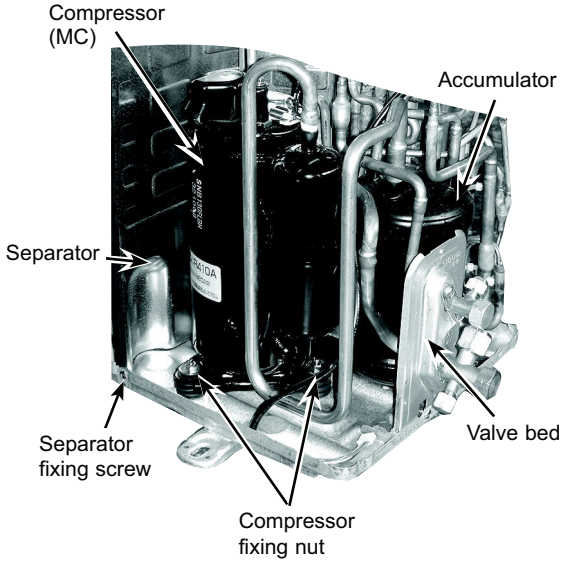
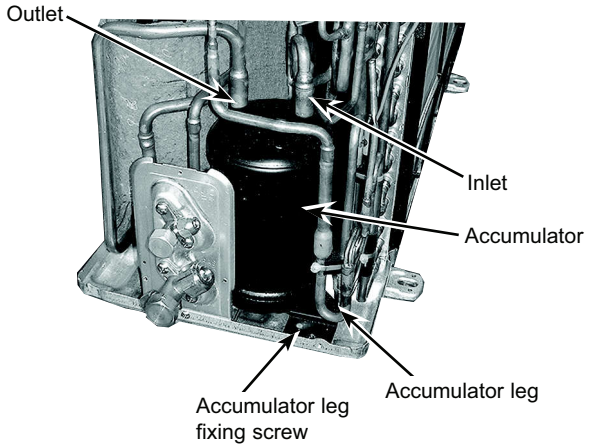
Photo 4



OPERATING PROCEDURE	PHOTOS
3. Removing the electrical parts box (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Remove the front panel. (See photo 1.) (4) Disconnect the indoor/outdoor connecting wire from terminal block. (5) Remove all the following connectors from controller circuit board; fan motor, linear expansion valve, thermistor<Outdoor pipe>, thermistor<Shell>, thermistor<Outdoor 2-phase pipe>, thermistor<Outdoor>, high pressure switch, four-way valve and bypass valve. Pull out the disconnected wire from the electrical parts box. <Diagram symbol in the connector housing> • Fan motor (CNF1) • Linear expansion valve (LEV-A) • Thermistor <Outdoor pipe> (TH3) • Thermistor <Shell> (TH32) • Thermistor <Outdoor 2-phase pipe, Outdoor> (TH6/7) • High pressure switch (63H) (6) Remove the terminal cover and disconnect the compressor lead wire. (7) Remove the electrical parts box fixing screws, 1 from the front, the right and the rear side, and detach the electrical parts box by pulling it upward.	Photo 5 
4. Removing the thermistor <Outdoor 2-phase pipe> (TH6) and thermistor <Outdoor pipe> (TH3) (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Remove the front panel. (See photo 1.) (4) Remove the conduit cover and cord cover. (5) Remove the back panel fixing screws, 4 from the right and 3 from the rear side, and detach the back panel. (See photo 1.) (6) Disconnect the connector TH3 (white) or TH6/7 (red) on the controller circuit board in the electrical parts box. (7) Loosen the clamp for the lead wire in the rear of the electrical parts box. (8) Pull out the thermistor <Outdoor pipe> (TH3) and thermistor <Outdoor 2-phase pipe> (TH6) from the sensor holder. Note: Replace the thermistor <Outdoor 2-phase pipe> (TH6) and the thermistor <Outdoor> (TH7) together since they are combined. Refer to No. 5. to remove the thermistor <Outdoor> (TH7).	Photo 6 

OPERATING PROCEDURE	PHOTOS
5. Removing the thermistor <Outdoor> (TH7) (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Disconnect the connector TH7 (red) on the controller circuit board in the electrical parts box. (4) Loosen the clamp for the lead wire in the rear of the electrical parts box. (See photo 4.) (5) Pull out the thermistor <Outdoor> (TH7) from the sensor holder. Note: In case of replacing thermistor <Outdoor> (TH7), replace it together with thermistor <Outdoor 2-phase pipe> (TH6), since they are combined together. Refer to No.4. to remove thermistor <Outdoor 2-phase pipe>.	Photo 7 
6. Removing the thermistor <Shell> (TH32) (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Remove the front panel. (See photo 1.) (4) Remove the back panel. (See photo 1.) (5) Remove the electrical parts box. (See photo 5.) (6) Remove the sound proof cover (upper) for compressor. (6) Pull out the thermistor <Shell> (TH32) from the holder of the compressor shell.	Photo 8 
7. Removing the 4-way valve coil (21S4) and linear expansion valve coil (LEV-A) (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Remove the front panel. (See photo 1.) (4) Remove the conduit cover and cord cover. (5) Remove the back panel. (See photo 1.) (6) Remove the electrical parts box. (See photo 5.) [Removing the 4-way valve coil (21S4)] (7) Remove 1 4-way valve coil fixing screw (M4 × 6). (8) Remove the 4-way valve coil by sliding the coil to the right. [Removing the linear expansion valve coil (LEV-A)] (9) Remove the linear expansion valve coil by sliding the coil upward.	Photo 9 

OPERATING PROCEDURE	PHOTOS
8. Removing the 4-way valve (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Remove the front panel. (See photo 1.) (4) Remove the conduit cover and cord cover. (See photo 2.) (5) Remove the back panel. (See photo 1.) (6) Remove the electrical parts box. (See photo 5.) (7) Remove the 4-way valve coil (See photo 8.) (8) Recover refrigerant. (9) Remove the welded part of four-way valve. Note 1: Recover refrigerant without spreading it in the air. Note 2: The welded part can be removed easily by removing the right side panel. Note 3: When installing the four-way valve, cover it with a wet cloth to prevent it from heating (250°F or more), then braze the pipes so that the inside of pipes are not oxidized.	Photo 10 
9. Removing linear expansion valve (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Remove the front panel. (See photo 1.) (4) Remove the conduit cover and cord cover. (See photo 2.) (5) Remove the back panel. (See photo 1.) (6) Remove the electrical parts box. (See photo 5.) (7) Remove the linear expansion valve coil. (See photo 10.) (8) Recover refrigerant. (9) Remove the welded part of linear expansion valve. Note 1: Recover refrigerant without spreading it in the air. Note 2: The welded part can be removed easily by removing the back panel. Note 3: When installing the linear expansion valve, cover it with a wet cloth to prevent it from heating (250°F or more), then braze the pipes so that the inside of pipes are not oxidized.	
10. Removing the high pressure switch (63H) (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Remove the front panel. (See photo 1.) (4) Remove the conduit cover and cord cover. (See photo 2.) (5) Remove the back panel. (See photo 1.) (6) Remove the electrical parts box. (See photo 5.) (7) Pull out the lead wire of high pressure switch. (8) Recover refrigerant. (9) Remove the welded part of high pressure switch. Note 1: Recover refrigerant without spreading it in the air. Note 2: The welded part can be removed easily by removing the back panel. Note 3: When installing the high pressure switch, cover it with a wet cloth to prevent it from heating (210°F or more), then braze the pipes so that the inside of pipes are not oxidized.	Photo 11 
11. Removing the reactor (ACL) (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Remove the front panel. (See photo 1.) (4) Remove the back panel. (See photo 1.) (5) Remove 3 reactor fixing screws (4 × 20) and remove the reactor. ※ The reactor is attached to the rear of the electrical parts box.	Photo 12 

OPERATING PROCEDURE	PHOTOS
12. Removing the compressor (MC) (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Remove the front panel. (See photo 1.) (4) Remove the conduit cover and cord cover. (See photo 2.) (5) Remove the back panel. (See photo 1.) (6) Remove the electrical parts box. (See photo 5.) (7) Remove 3 separator fixing screws (4 × 10) and remove the separator. (8) Remove the thermistor <shell> (TH32). (Refer to 6.) (9) Recover refrigerant. (10) Remove 3 compressor fixing nuts by using spanner or adjustable wrench. (11) Remove the welded pipe of motor for compressor inlet and outlet. Note: Recover refrigerant without spreading it in the air.	Photo 13  Compressor (MC) Accumulator Separator Separator fixing screw Compressor fixing nut Valve bed
13. Removing the accumulator (1) Remove the service panel. (See photo 1.) (2) Remove the top panel. (See photo 1.) (3) Remove the front panel. (See photo 1.) (4) Remove the conduit cover and cord cover. (See photo 2.) (5) Remove the back panel. (See photo 1.) (6) Remove the electrical parts box. (See photo 5.) (7) Recover refrigerant. (8) Remove 2 welded pipes of accumulator inlet and outlet. (9) Remove 2 accumulator leg fixing screws (4 × 10). (10) Remove the accumulator together with the receiver leg. Note: Recover refrigerant without spreading it in the air.	Photo 14  Outlet Inlet Accumulator Accumulator leg fixing screw Accumulator leg