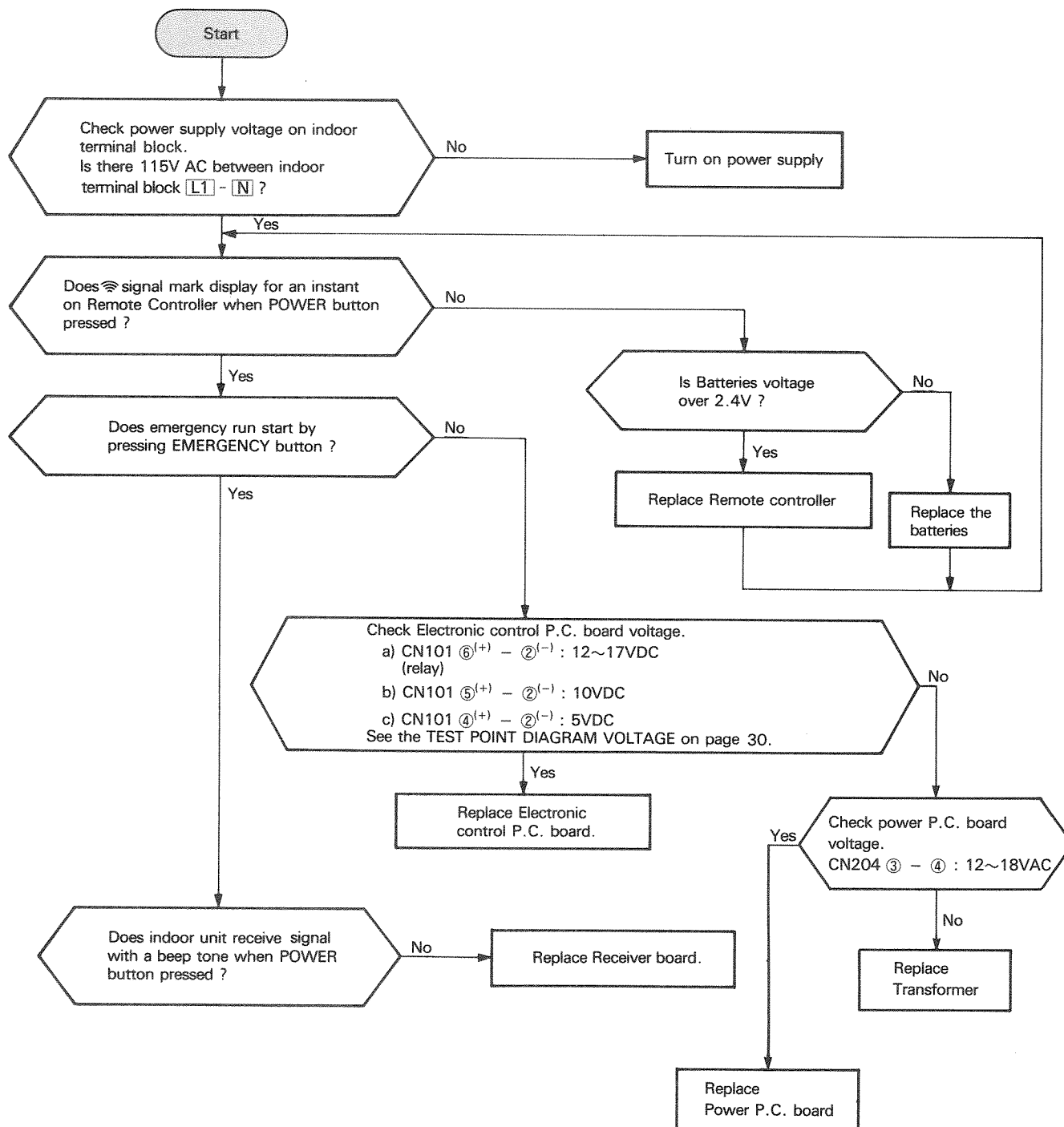


(1) Operation does not start

MF12EN/MF12EN2

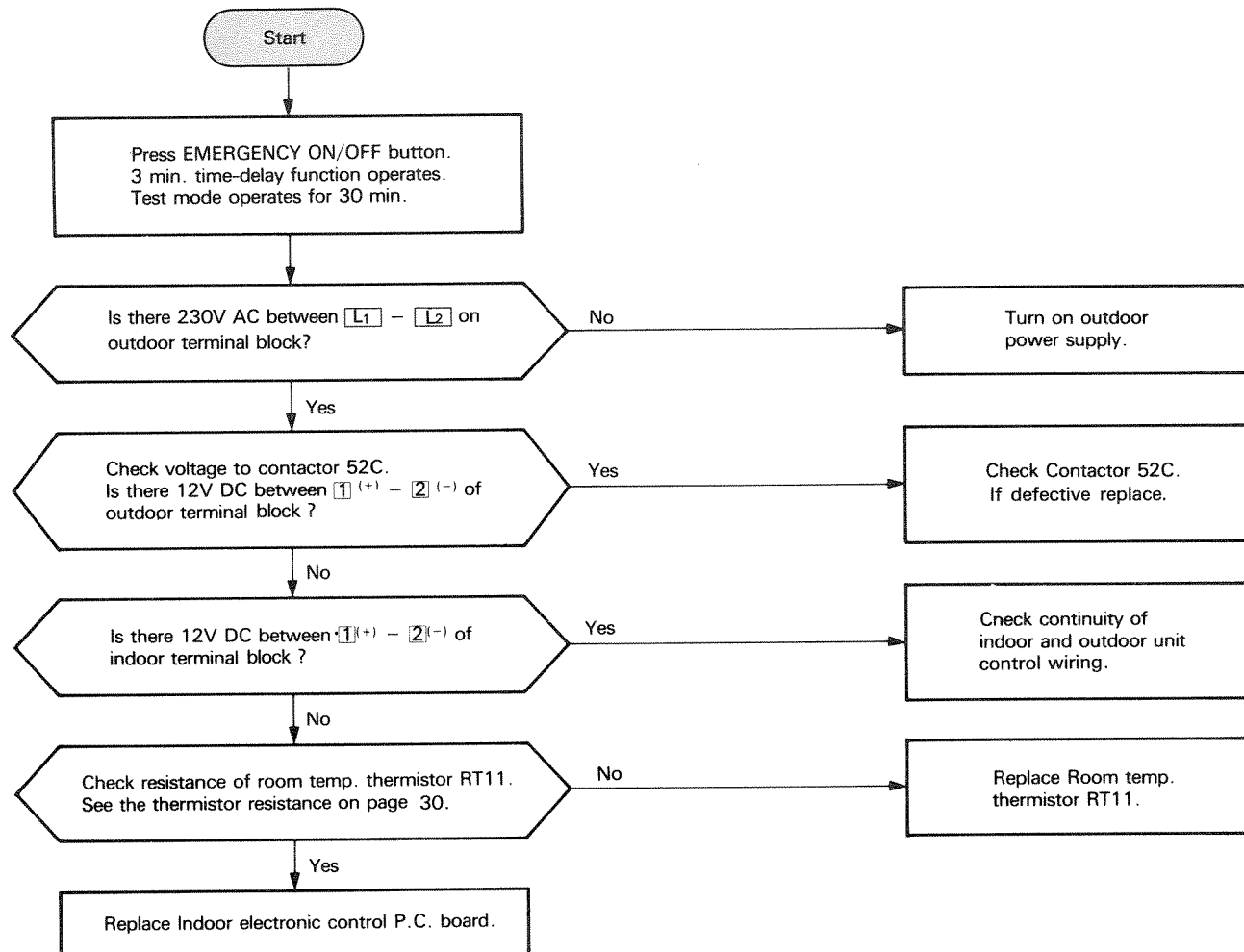
MF15EN/MF15EN2



(2) Compressor and outdoor fan do not operate (Only indoor fan operates)

MF12EN/MF12EN2

MF15EN/MF15EN2



RELAY OPERATION

MF12EN/MF12EN2

MF15EN/MF15EN2

MODE	THERMOSTAT	52C CONTACTOR	INDOOR FAN RELAY
COOL & COOL mode of I FEEL CONTROL	ON	ON	AUTO or set speed
	OFF	OFF	
DRY & DRY mode of I FEEL CON- TROL	ON	Delays compressor start for 2 min. at initial stat to determine set temp.	VLO speed.
		Repeats 8 min. ON 3 min. OFF operation	VLO links with 52C contactor.
	OFF	Repeats 4 min. OFF 1 min. ON operation	
FAN	ON	OFF	AUTO or set speed
	OFF		OFF

NOTE : When the compressor is OFF, "3 min. time-delay circuit" operates.

COIL FROST PREVENTION mode are as follows

MODE	THERMOSTAT	52C CONTACTOR	INDOOR FAN RELAY
COOL & COOL mode of I FEEL CONTROL	ON	52C is dormant for the first 5 min. After 5 min. parst, 52C will remain off, until the in- door coil thermistor temp. reaches the ter- mination temp. At this point 52C will be activated.	Auto or set speed
DRY & DRY mode of I FEEL CONTROL			VLO speed

Indoor fan relay mode

Indoor fan speed	Relay turning ON
HI	X14
MED	X13
LO	X12
VLO	X11
OFF	All fan relays are off

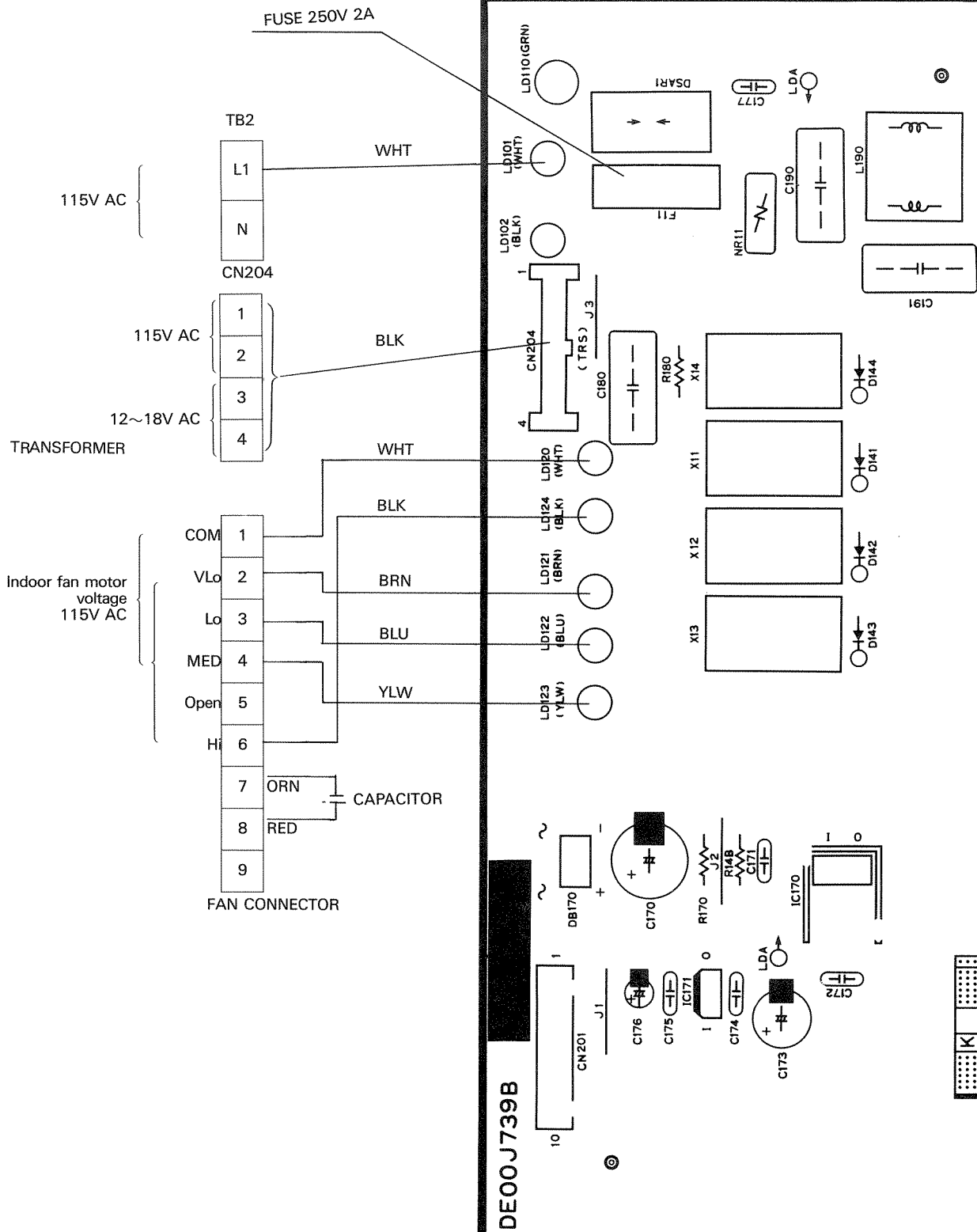
Electronic control P.C. board

AUTO RESTART
Cut jumper wire

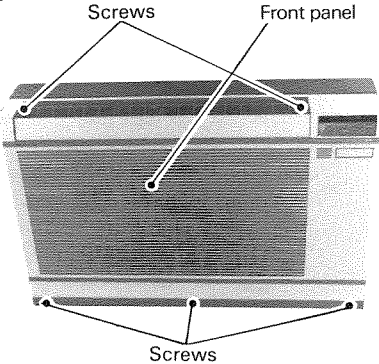
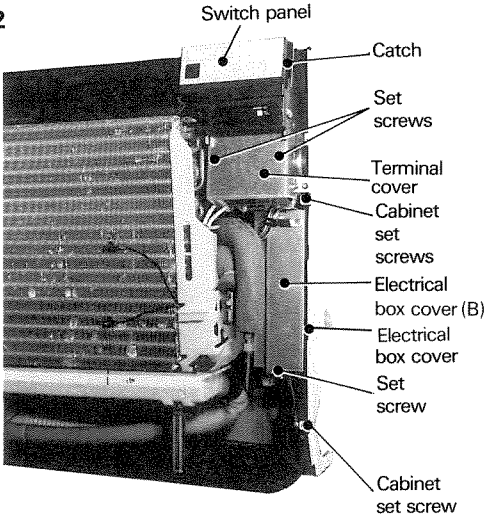
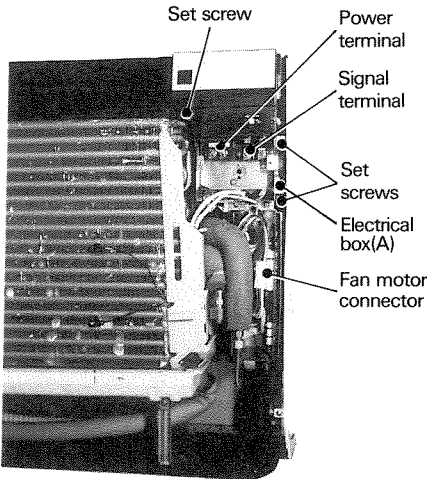


MF12EN/MF12EN2
MF15EN/MF15EN2

Power P.C. board



1. INDOOR UNIT MF12EN/MF12EN2 (NOTE) MF15EN/MF15EN2 is also the same procedure.

OPERATING PROCEDURE	PHOTOS
1. Removing the front panel. (1) Remove the set screws (5 pcs) of the front panel. (2) After removing of the set screws, lift up the front panel and unclamp the catches. (3) Then pull out the panel to your side to remove.	Photo 1 
2. Removing the terminal cover. (1) Remove the set screws (2 pcs) of terminal cover. (2) Remove the terminal cover. (Refer to photo 2) (3) The terminal blocks of the main power wire and the signal wire can be removed now.	Photo 2 
3. Removing the transformer and indoor fan capacitor. After removing of the front panel : (1) Push the set claw at the right side of the switch panel. The switch panel can be removed. (Refer to photo 2) (2) Remove the set screws (2 pcs) of the electrical box cover (A). (3) Remove the electrical box cover (A). (Refer to photo 4) (4) The transformer, indoor fan capacitor can be removed. (Refer to photo 5)	Photo 3 

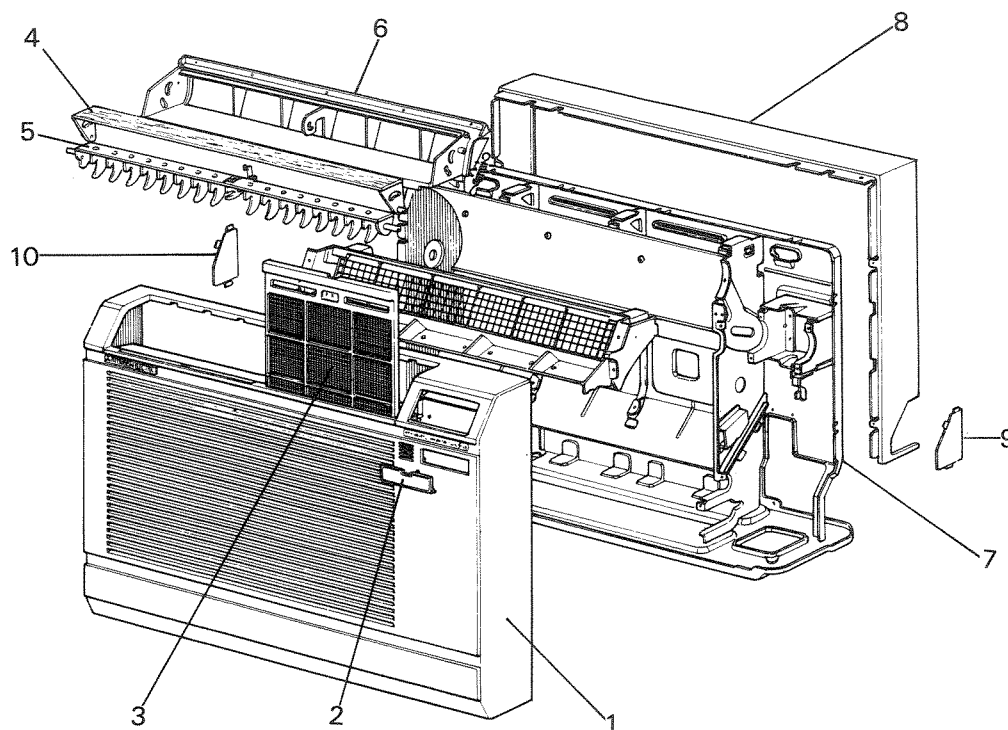
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PARTS LIST

STRUCTURAL PARTS

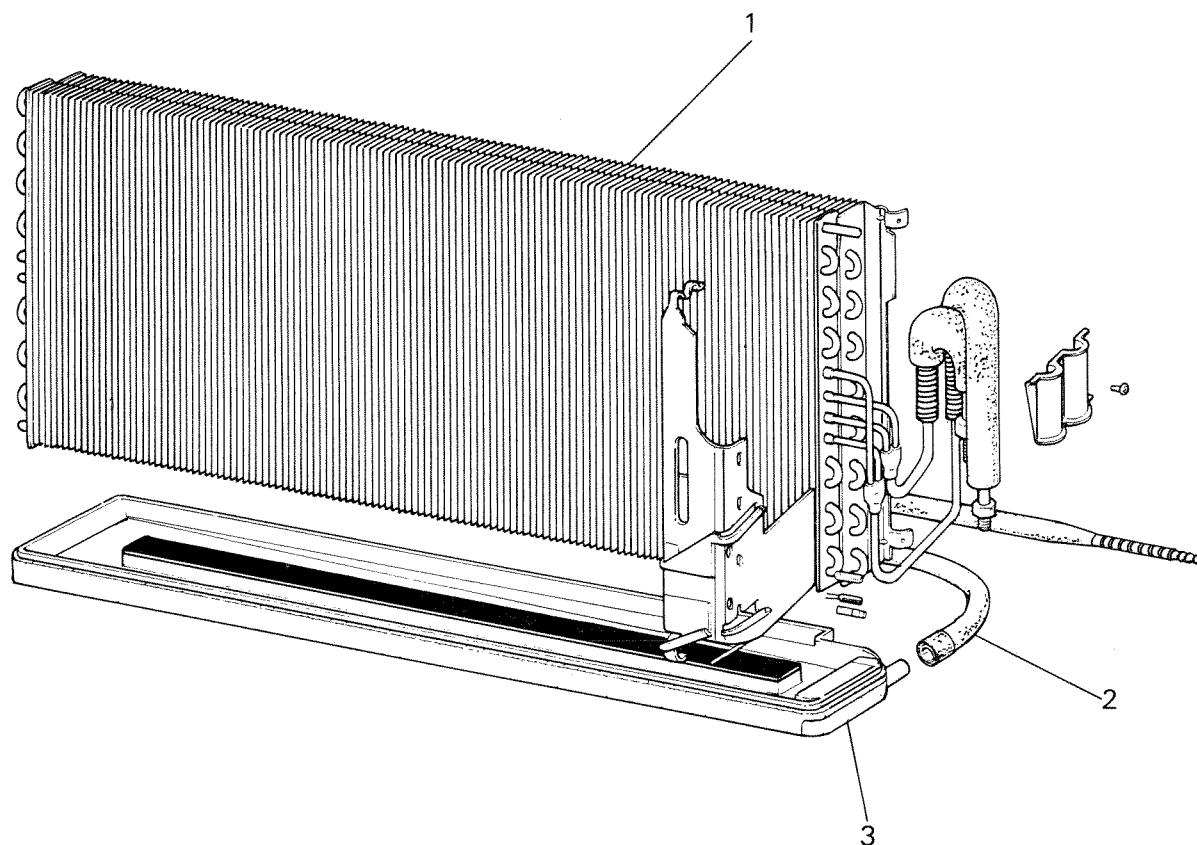
MF12EN/MF12EN2

MF15EN/MF15EN2



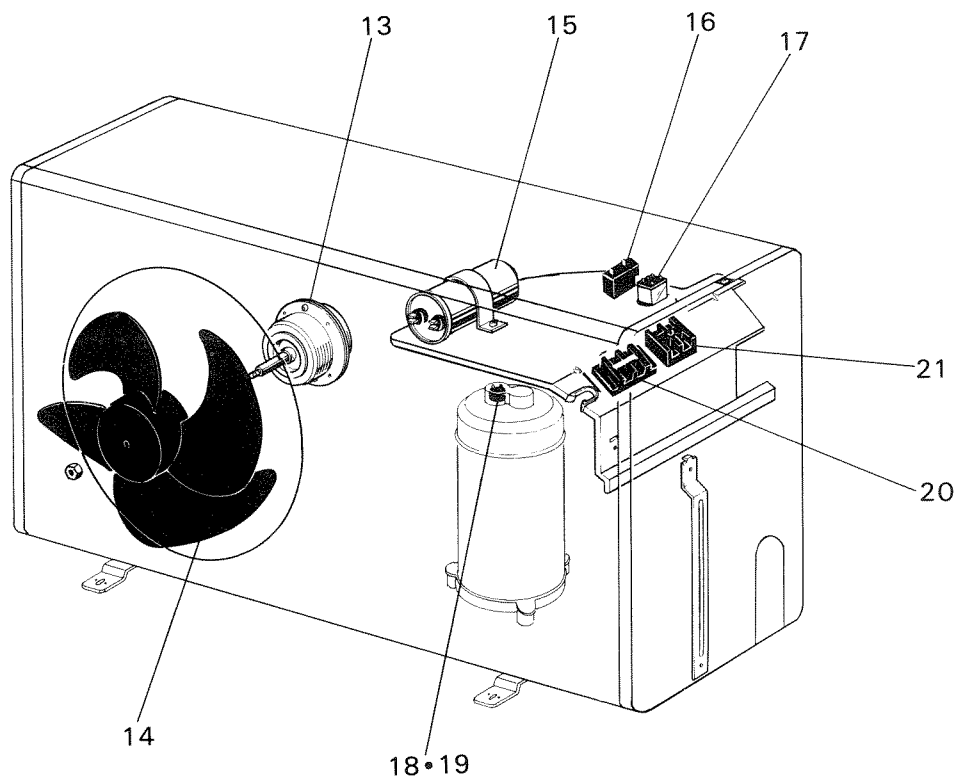
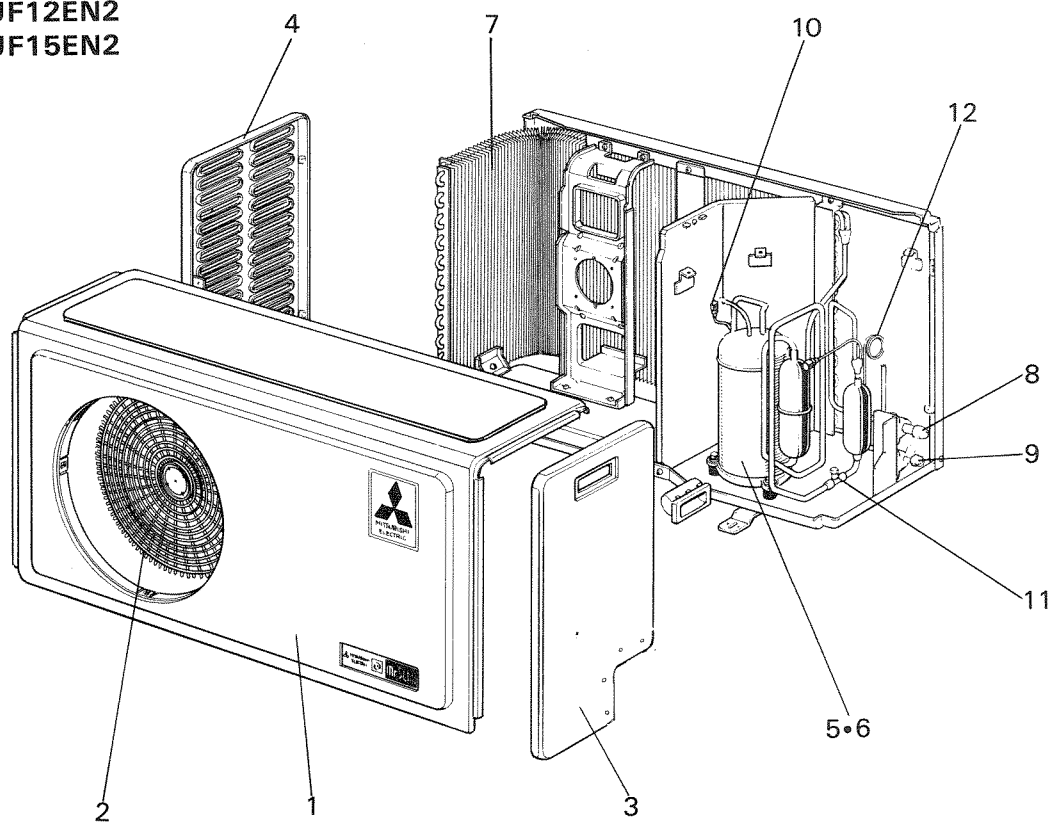
No.	Parts No.	Parts Name	Symbol in Skeleton wiring Diagram	Q'ty/unit		Remarks
				MF12EN MF12EN2	MF15EN MF15EN2	
1	T2W 607 000	FRONT PANEL ASSEMBLY (W)		1	1	
2	M21 K50 004	DOOR (W)		1	1	
3	M21 K50 100	FILTER (W)		2	2	
4	M21 K50 040	CHANGE VANE		1	1	
5	M21 K50 045	LOUVER		1	1	
6	M21 K50 235	NOZZLE ASSEMBLY (W)		1	1	
7	T2W 811 290	BASE ASSEMBLY		1	1	
8	T2W 615 234	CABINET ASSEMBLY		1	1	
9	M21 K50 976	PIPE COVER (R)		1	1	
10	M21 K50 975	PIPE COVER (L)		1	1	

HEAT EXCHANGER
MF12EN/MF12EN2
MF15EN/MF15EN2



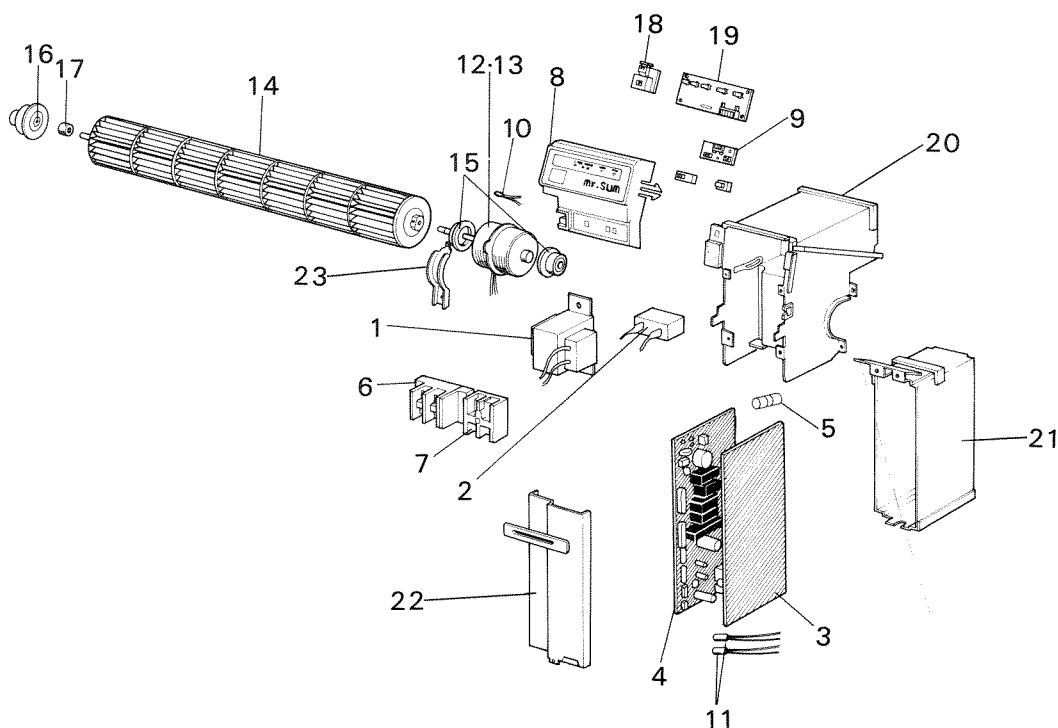
No.	Parts No.	Parts Name	Symbol in Skeleton wiring Diagram	Q'ty/unit		Remarks
				MF12EN MF12EN2	MF15EN MF15EN2	
1	T2W 811 620	INDOOR HEAT EXCHANGER		1		
	T2W 812 620	INDOOR HEAT EXCHANGER			1	
2	M21 K50 703	DRAIN HOSE		1	1	
3	T2W 811 700	DRAIN PAN		1	1	

OUTDOOR UNIT
MUF12EN/MUF12EN2
MUF15EN/MUF15EN2



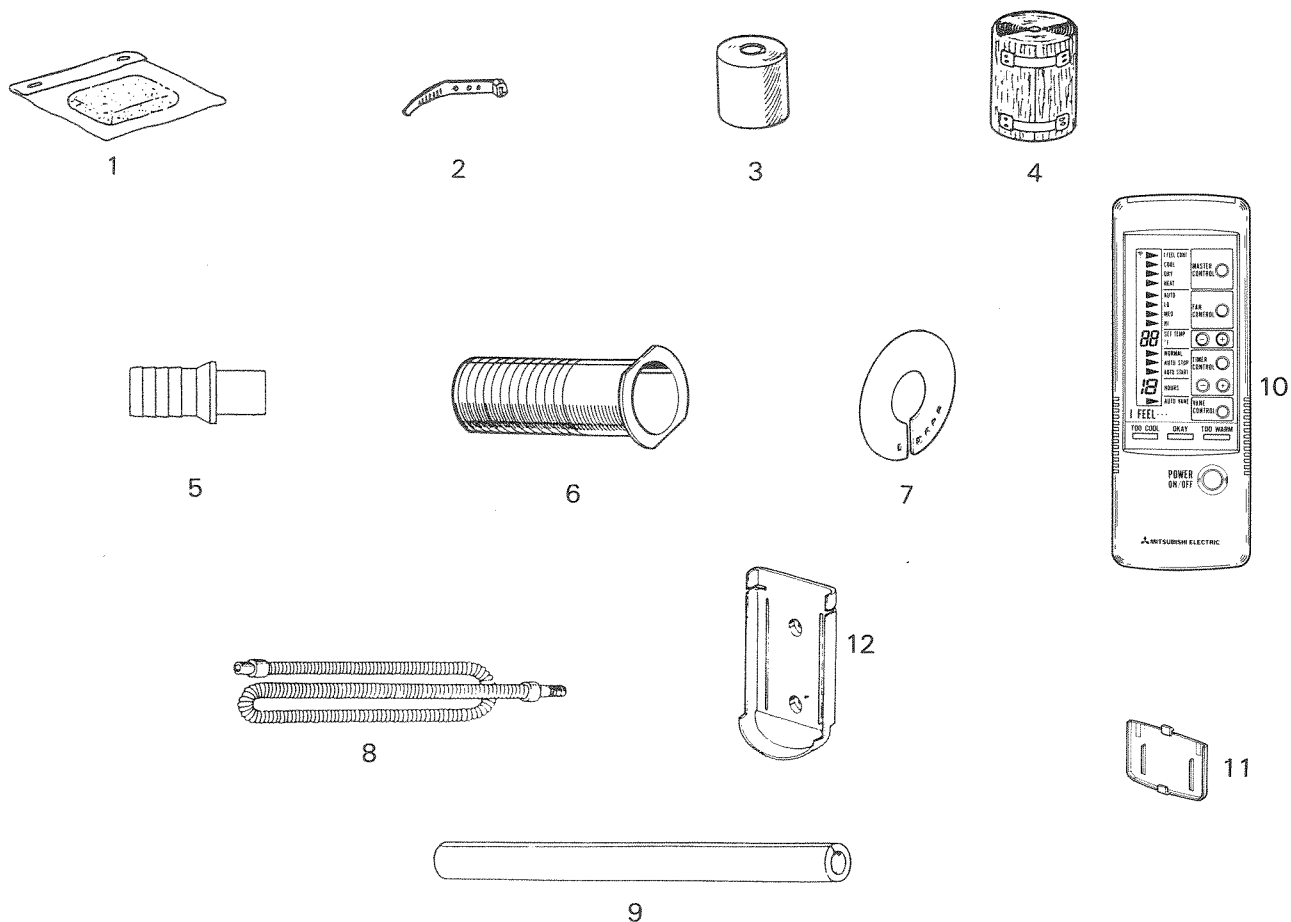
No.	Parts No.	Parts Name	Symbol in Skeleton wiring Diagram	Q'ty/unit		Remarks
				MUF12EN MUF12EN2	MUF15EN MUF15EN2	
1	T2W 510 232	CABINET		1	1	
2	T2W 521 509	OUTER NOZZLE		1	1	
3	T2W 521 245	SERVICE PANEL		1	1	
4	T2W 521 249	SIDE PANEL		1	1	
5	T92 650 452	COMPRESSOR	MC	1		RH-167NAB
6	T92 541 452	COMPRESSOR	MC		1	RH-207NAB
7	T2W 774 630	OUTDOOR HEAT EXCHANGER		1	1	
8	T2W 521 661	VALVE (GAS)		1	1	
9	T2W 460 662	VALVE (LIQUID)		1	1	
10	T2W 457 641	CHARGE PLUG		2	2	
11	T2W 416 642	FUSIBLE PLUG		1	1	
12	M21 987 936	CAPILLARY TUBE		2	2	$\phi 0.12 \times \phi 1/16 \times 15-3/4$
13	T2W 708 301	OUTDOOR FAN MOTOR	MF61	1	1	S6N-50F-EB
14	R01 093 115	PROPELLER		1	1	
15	T2W 500 353	COMP. CAPACITOR	C1	1	1	25 μ F, 370V
16	T2W 708 350	OUTDOOR FAN CAPACITOR	C2	1	1	3 μ F, 440V
17	T2W 359 340	COMP. CONTACTOR	52C	1	1	
18	T2W 394 330	THERMAL OVERCURRENT RELAY	51C	1		MRA98921
19	M21 657 330	THERMAL OVERCURRENT RELAY	51C		1	MRA98922
20	T2W 659 375	OUTDOOR TERMINAL BLOCK	TB2	1	1	
21	M21 534 375	OUTDOOR TERMINAL BLOCK	TB4	1	1	

ELECTRICAL PARTS
MF12EN/MF12EN2
MF15EN/MF15EN2



No.	Parts No.	Parts Name	Symbol in Skeleton wiring Diagram	Q'ty/unit		Remarks
				MF12EN MF12EN2	MF15EN MF15EN2	
1	T2W 811 339	TRANSFORMER	T	1	1	
2	T2W 635 350	INDOOR FAN CAPACITOR	C	1	1	4 μ F 220V
3	T2W 811 450	ELECTRONIC CONTROL P.C. BOARD		1	1	
4	T2W 811 440	POWER P.C. BOARD		1	1	
5	T2W 800 382	FUSE	F11	1	1	2A
6	T2W 811 375	TERMINAL BLOCK	TB1	1	1	
7	M21 534 375	TERMINAL BLOCK	TB2	1	1	
8	T2W 608 781	SWITCH PANEL		1	1	
9	T2W 811 329	SWITCH P.C. BOARD		1	1	
10	M21 N76 307	ROOM TEMP. THERMISTOR	RT11	1	1	
11	T2W 811 307	INDOOR COIL THERMISTOR	RT12, RT14	2	2	
12	T2W 811 300	INDOOR FAN MOTOR	MF	1		RA4W23-BE
13	T2W 812 300	INDOOR FAN MOTOR	MF		1	RA4W23-CE
14	T2W 615 302	LINE FLOW FAN		1	1	
15	T2W 607 505	FAN MOTOR RUBBER MOUNT		2	2	
16	M21 B00 509	BEARING MOUNT		1	1	
17	M21 B00 504	BEARING (SLEEVE)		1	1	
18	M21 N00 468	RECEIVER P.C. BOARD		1	1	
19	T2W 811 446	DISPLAY P.C. BOARD		1	1	
20	T2W 811 081	ELECTRICAL BOX (UPPER)		1	1	
21	T2W 811 082	ELECTRICAL BOX (LOWER)		1	1	
22	T2W 811 083	ELECTRICAL COVER		1	1	
23	T2W 811 515	MOTOR BAND		1	1	

ACCESSORY PARTS
MF12EN/MF12EN2
MF15EN/MF15EN2



No.	Parts No.	Parts Name	Symbol in Skeleton wiring Diagram	Q'ty/unit	Remarks
				MF12EN/MF12EN2 MF15EN/MF15EN2	
1	M21 478 919	PUTTY		1	
2	M21 480 708	PIPE FIXING BAND		3	
3	M21 478 917	PIPING TAPE		1	
4	M21 K50 256	FELT TAPE		1	
5	M21 K50 709	DRAIN JOINT		1	
6	M21 K50 977	WALL HOLE SLEEVE		1	
7	M21 480 973	WALL HOLE COVER		1	
8	M21 480 703	DRAIN HOSE		1	
9	M21 J67 910	PIPE COVER		1	
10	T2W 679 426	REMOTE CONTROLLER		1	
11	M21 N28 017	BATTERY COVER		1	
12	M21 N28 083	REMOTE CONTROLLER HOLDER		1	

NOTES



Mr. SLIM™

 **mitsubishi ELECTRIC CORPORATION**

MANUFACTURED FOR MITSUBISHI ELECTRONICS AMERICA, INC., 3100 AVALON RIDGE PLACE, SUITE 200, NORCROSS, GA 30071