



**SPLIT TYPE ROOM AIR
CONDITIONER
WALL MOUNTED type**

SERVICE MANUAL

Models	Indoor unit	Outdoor unit
	ASY17ASH-W	AOY17ANA
	ASY17RSH-W	AOY17RNA

C O N T E N T S

SPECIFICATIONS.....	1
REFRIGERANT SYSTEM DIAGRAM	2
CIRCUIT DIAGRAM	3
DISASSEMBLY ILLUSTRATION	10
PARTS LIST	14

S P E C I F I C A T I O N S

INDOOR UNIT	ASY17ASH-W	ASY17RSH-W
OUTDOOR UNIT	AOY17ANA	AOY17RNA
COOLING CAPACITY (kW)	4.75-4.90	4.70-4.80
HEATING CAPACITY (kW)	—	5.00-5.15

ELECTRICAL SPECIFICATIONS

POWER SUPPLY (V)		220 - 240	
FREQUENCY (Hz)		50	
RUNNING CURRENT (A)	COOLING	9.5-10.1	9.5-10.0
	HEATING	—	9.9-10.5
INPUT (kW)	COOLING	1.98-2.15	1.98-2.15
	HEATING	—	2.10-2.25
EER (W/W)	COOLING	2.40-2.28	2.37-2.23
	HEATING	—	2.38-2.29
MOISTURE REMOVAL (ℓ/hr)		2.1	2.1
AIR CIRCULATION-Hi (m³/hr)		540	560

COMPRESSOR

TYPE	Hermetic type, Permanent split condenser, 2 pole, Single phase, Induction motor
CODE	2JS350D5AB02

FAN MOTOR

		INDOOR UNIT		OUTDOOR UNIT	
MODEL		ASY17ASH-W	ASY17RSH-W	AOY17ANA	AOY17RNA
TYPE		MFA-17AT		MFB-247FBT	
POWER SUPPLY (V)		220 - 240			
FAN SPEED	HI-SPEED (r.p.m.)	1,240	1,300	740	735
	MED-SPEED (r.p.m.)	1,160	1,210		
	LO-SPEED (r.p.m.)	1,080	1,110		

DIMENSIONS

HEIGHT x WIDTH x DEPTH (mm)	285(H) x 900(W) x 172(D)	643(H) x 840(W) x 336(D)
-----------------------------	--------------------------	--------------------------

WEIGHT

GROSS WEIGHT/NET WEIGHT (kg)	13 / 10	63 / 55	67 / 59
------------------------------	---------	---------	---------

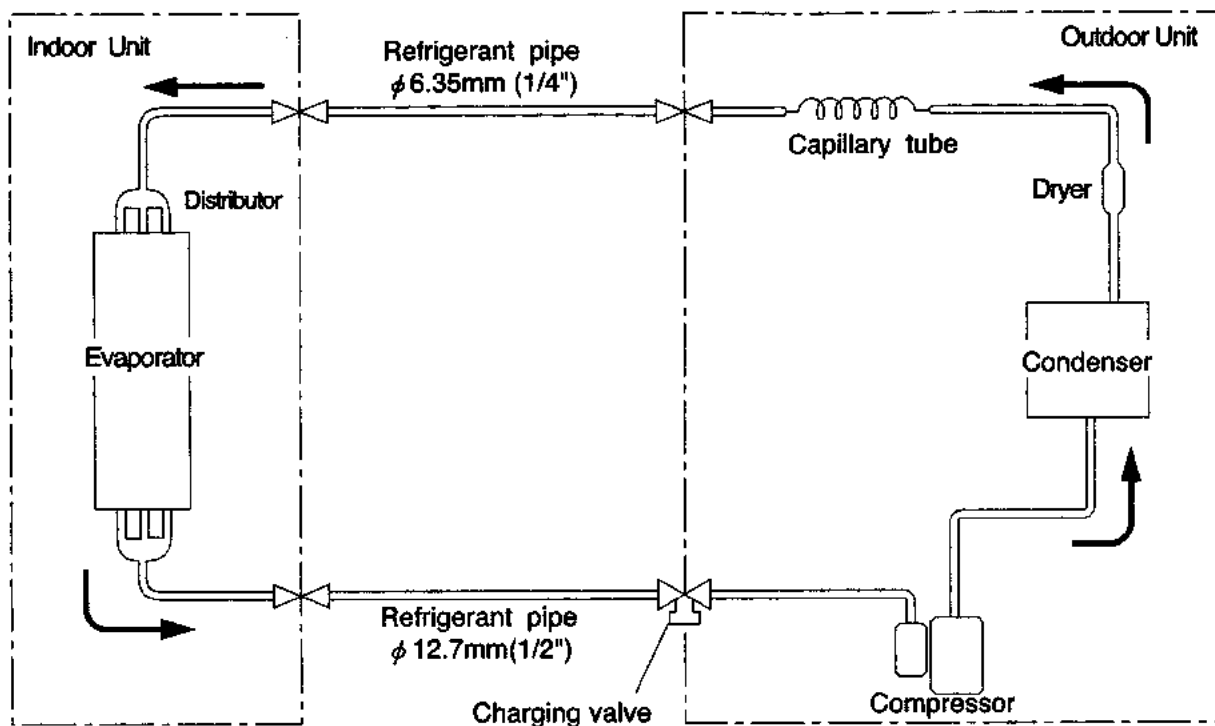
ADDITIONAL REFRIGERANT CHARGE

PIPE LENGTH		16ft.(5m)	23ft.(7m)	33ft.(10m)	49ft.(15m)	66ft.(20m)
FULL CHARGE AMOUNT	ASY17ASH-W	45.9oz.(1,300g)	46.6oz.(1,320g)	47.6oz.(1,350g)	49.4oz.(1,400g)	51.1oz.(1,450g)
	ASY17RSH-W	54.0oz.(1,530g)	54.6oz.(1,550g)	55.7oz.(1,580g)	57.4oz.(1,630g)	59.3oz.(1,680g)

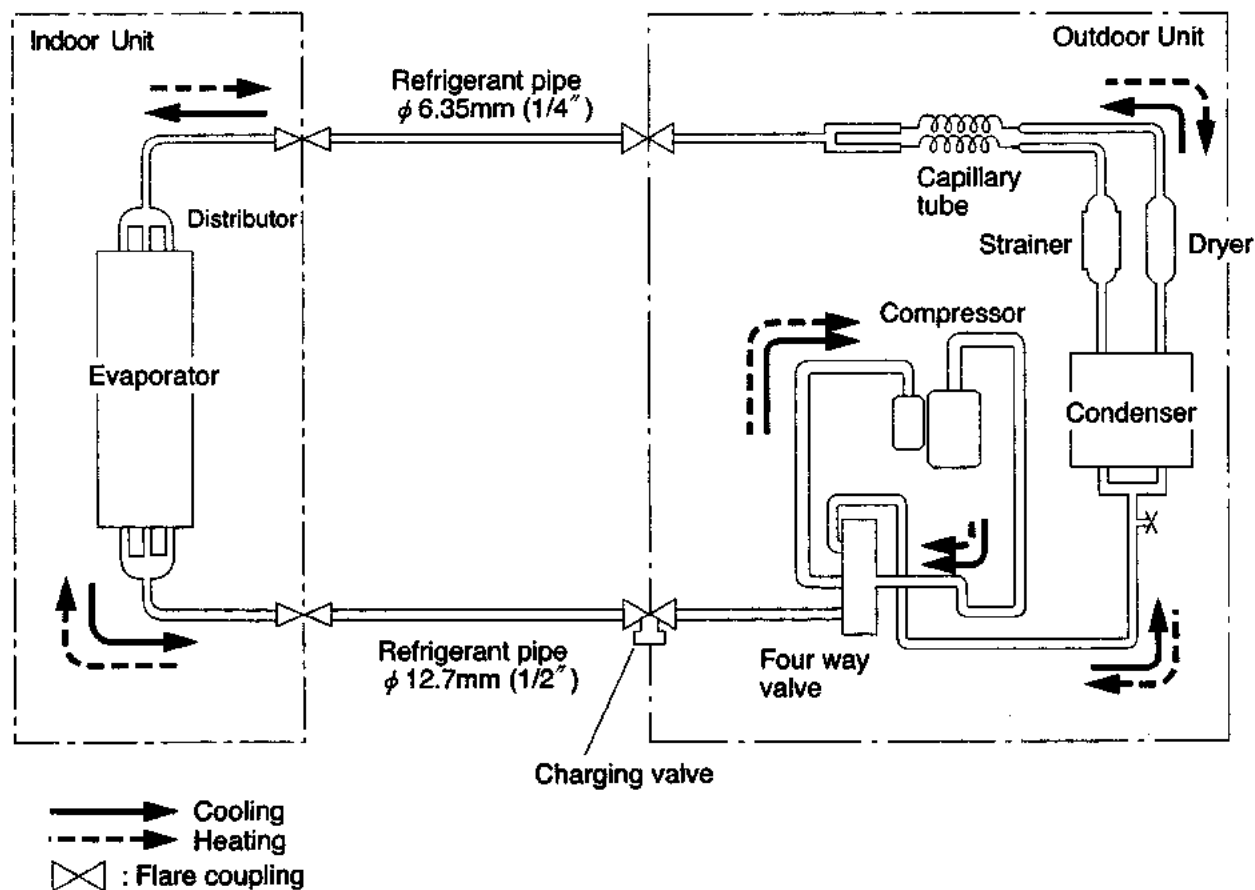
Note: between 5m and 20m, when using a connection pipe other than that in the table,
charge additional refrigerant with 0.4oz.(10g)/3.3ft.(1m) as the criteria.

REFRIGERANT SYSTEM DIAGRAM

Models : ASY17ASH-W / AOY17ANA

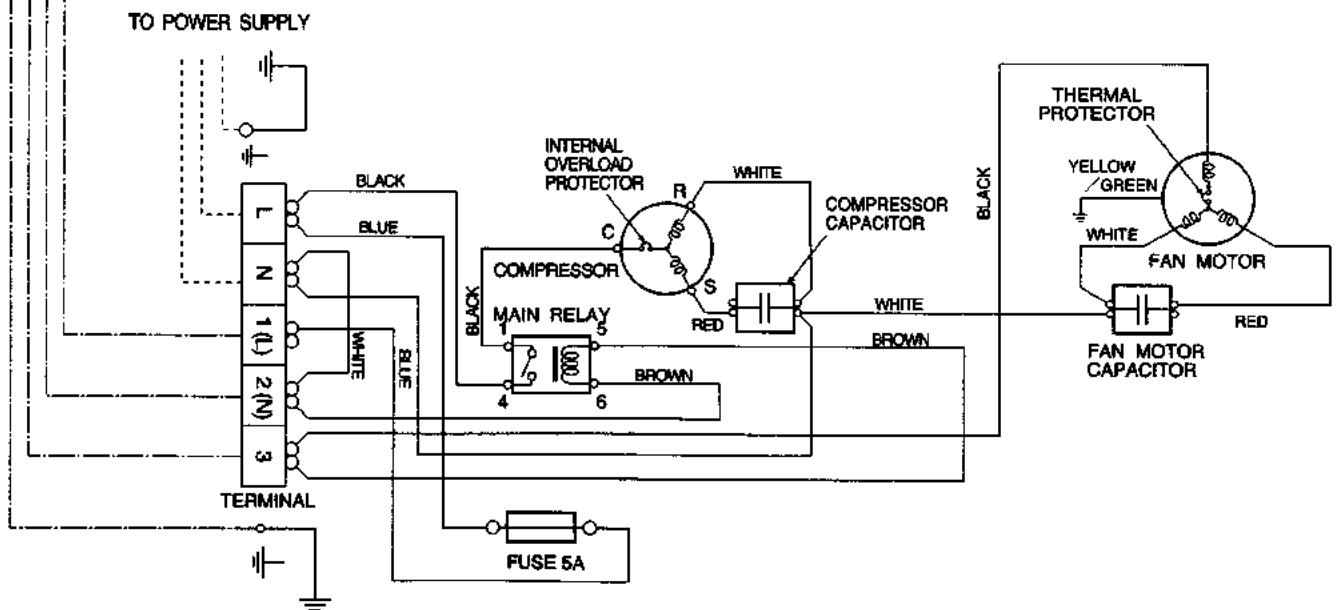
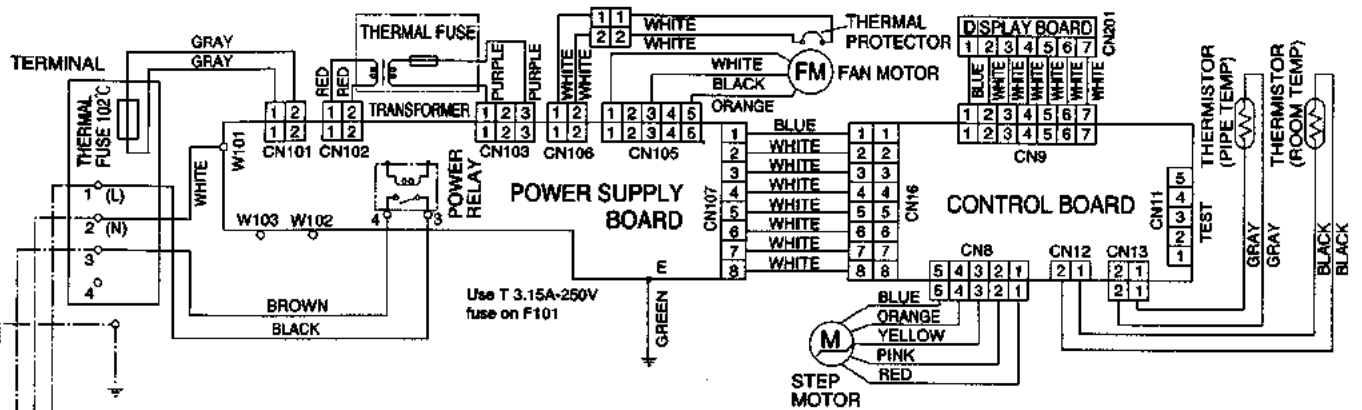


Models : ASY17RSH-W / AOY17RNA

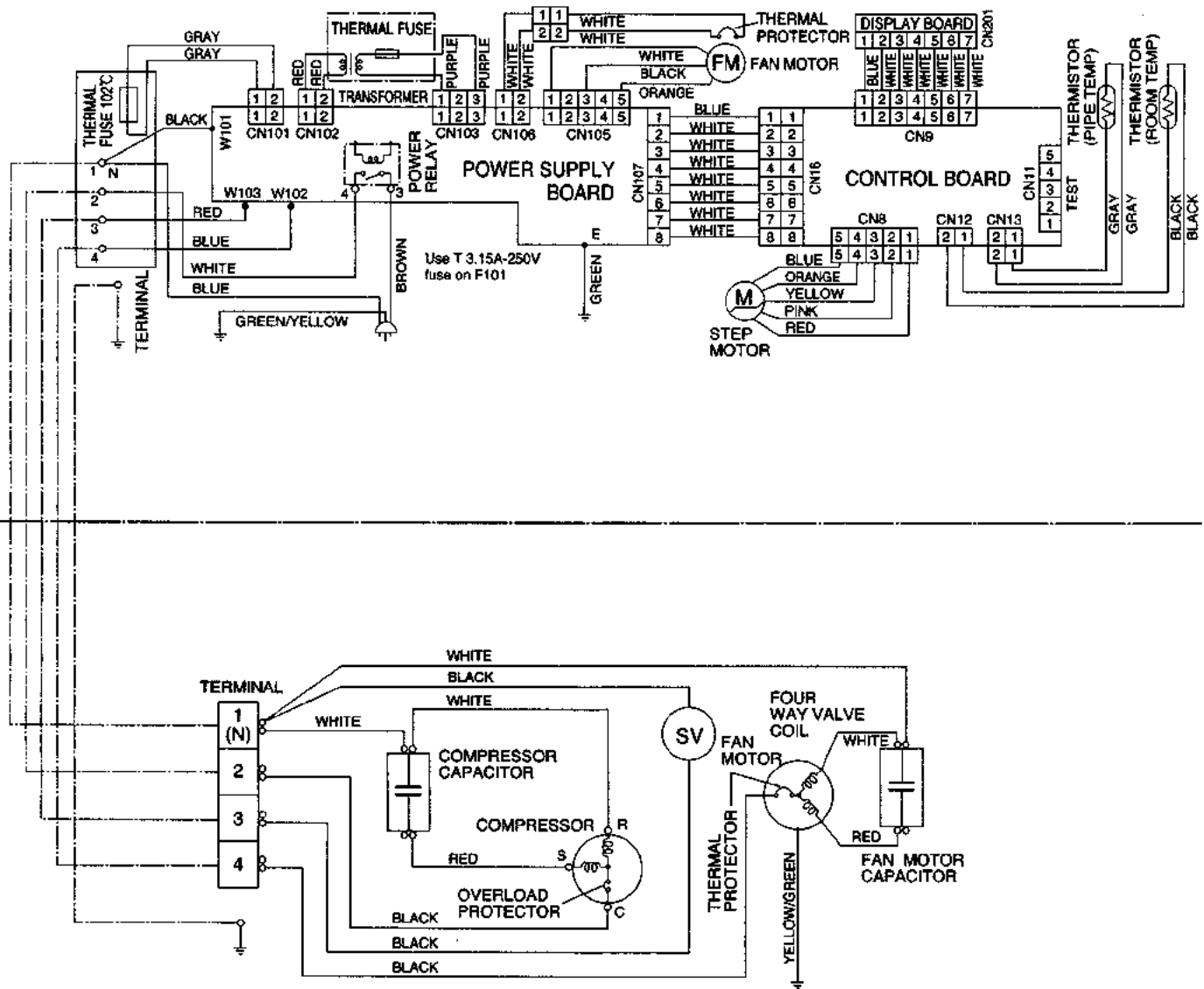


CIRCUIT DIAGRAM

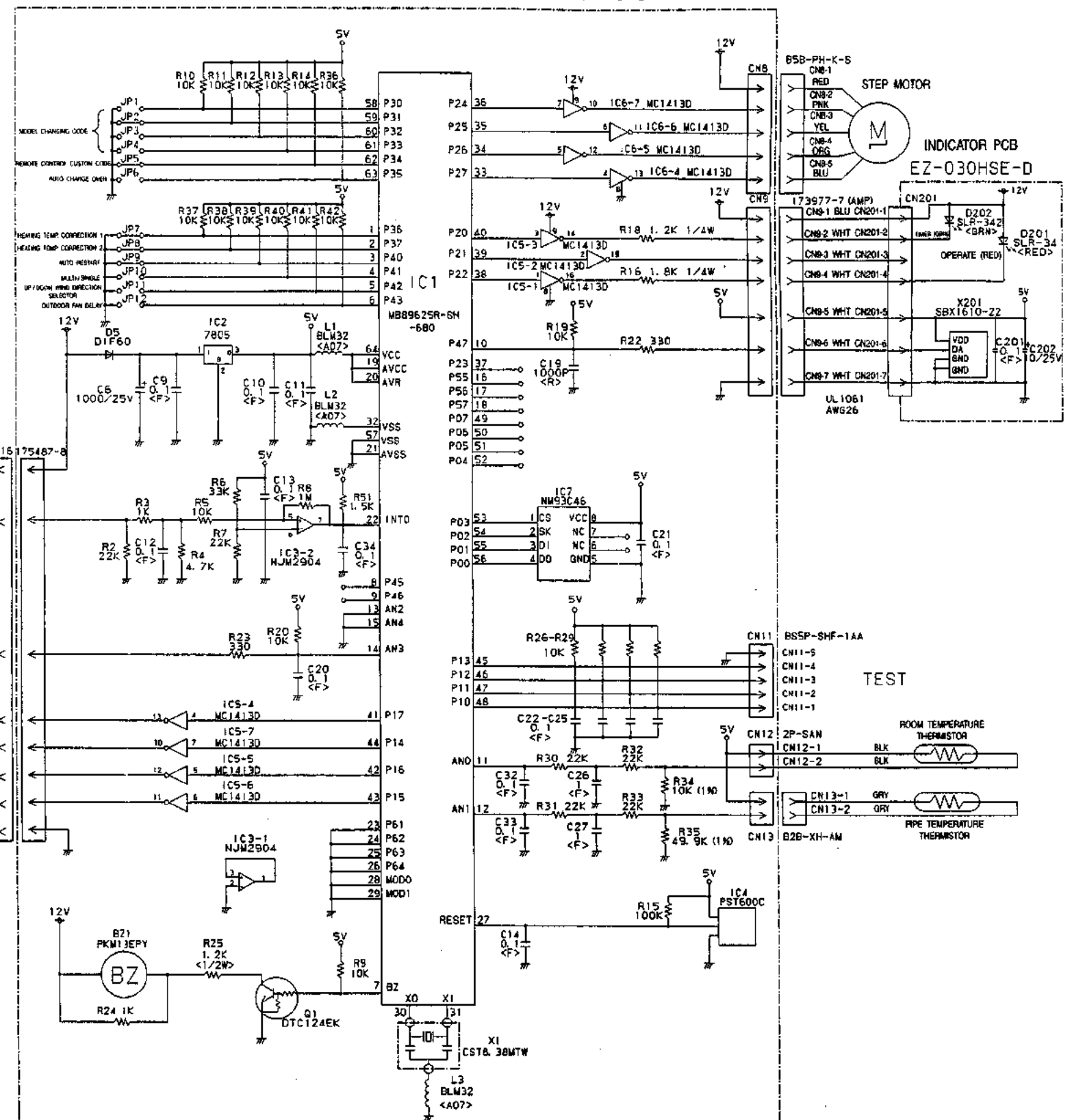
Models : ASY17ASH-W / AOY17ANA



Models : ASY17RSH-W / AOY17RNA

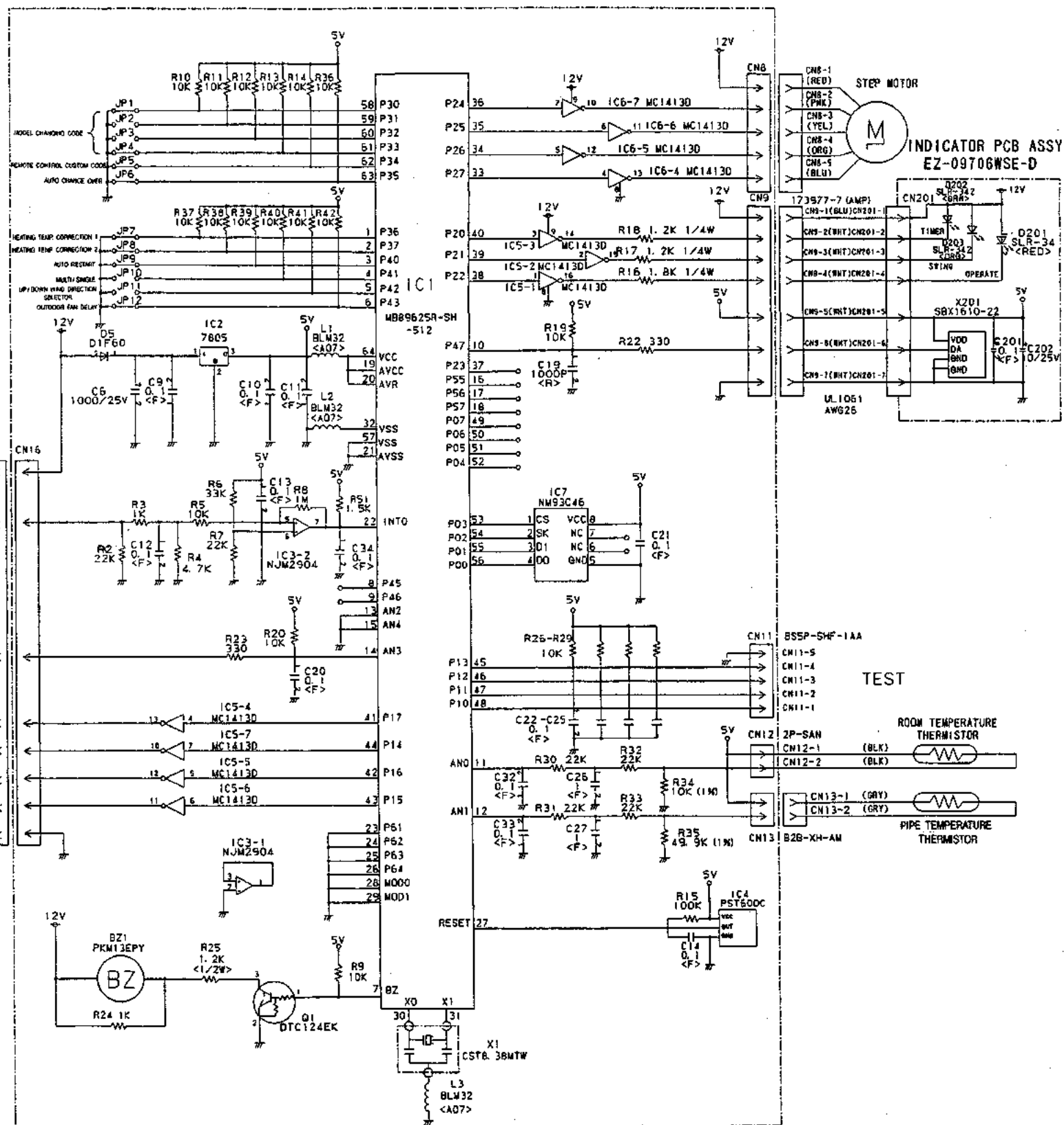
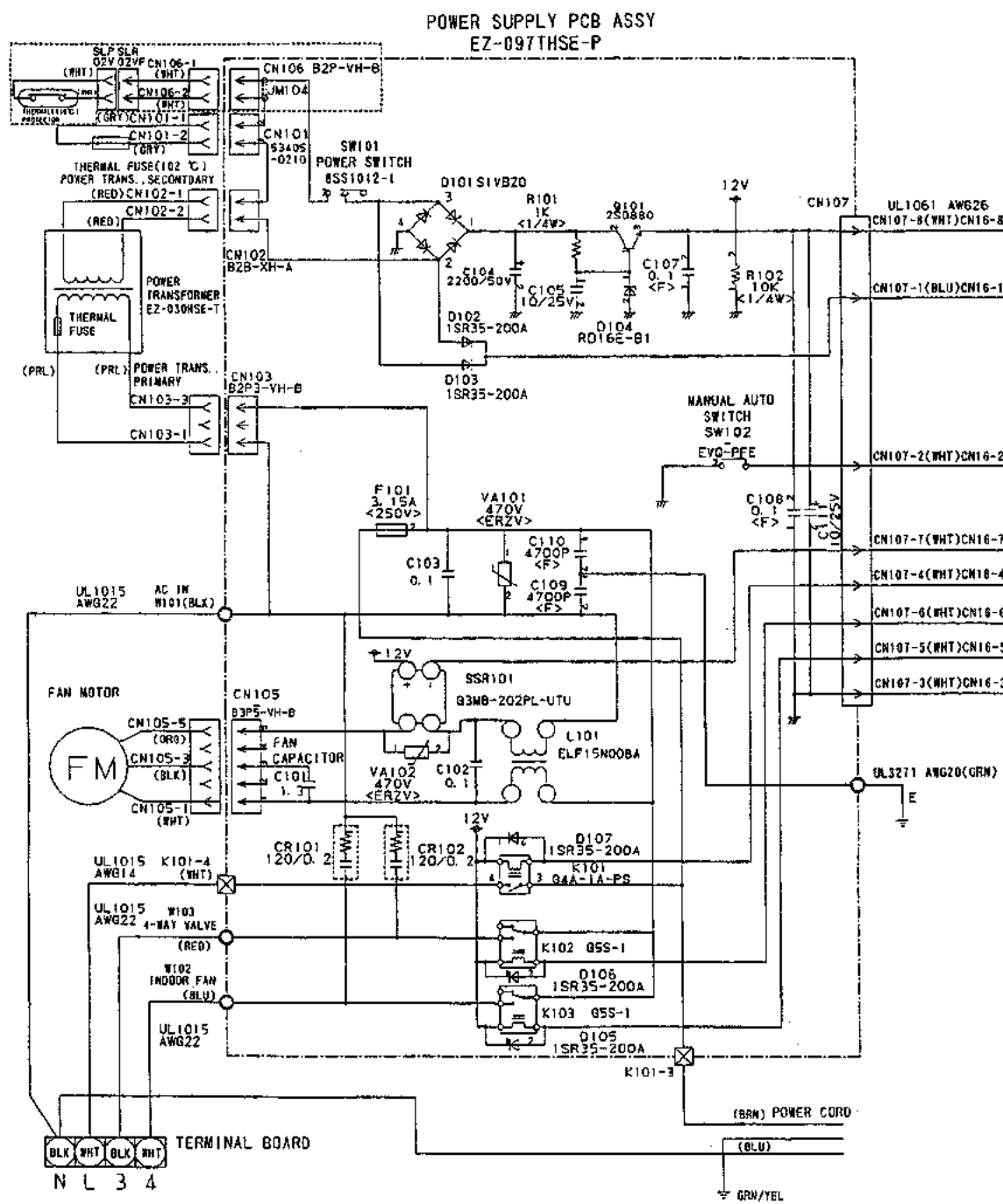


CONTROLLER PCB ASSEMBLY (MAIN PCB)
EZ-095GWSE-C (GM-6805)

[illegible]

Model : ASY17RSH-W

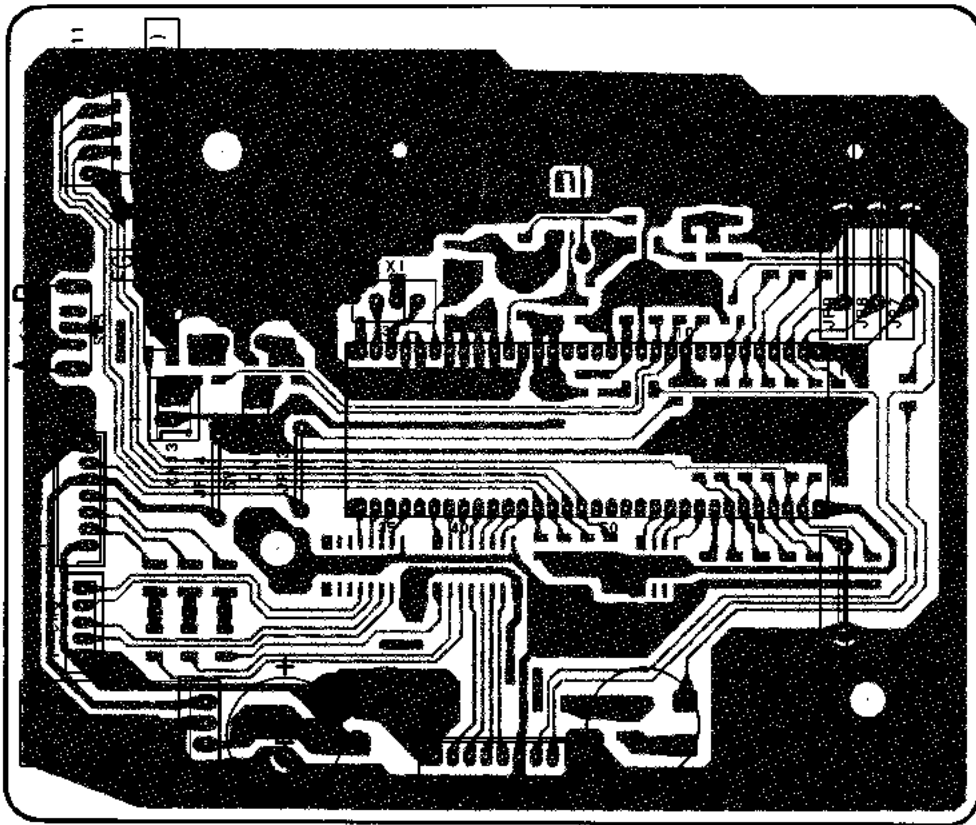
CONTROLLER PCB ASSEMBLY(MAIN PCB)
EZ-09705HSE-C(GM-60101)



INDOOR P. C. BOARD LAYOUTS

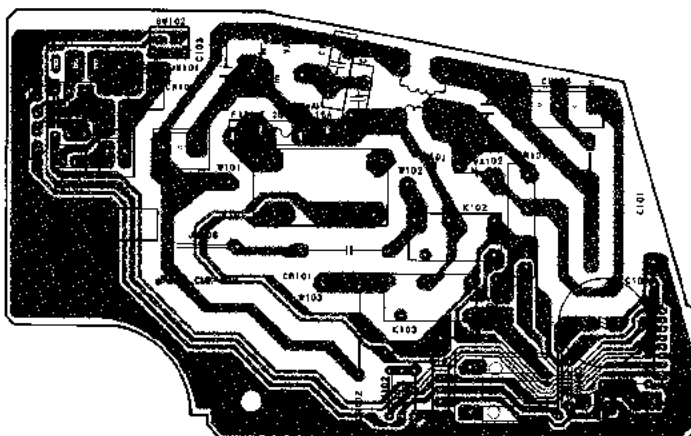
CONTROLLER PCB ASSEMBLY (MAIN PCB)

(Viewed from the solder side)



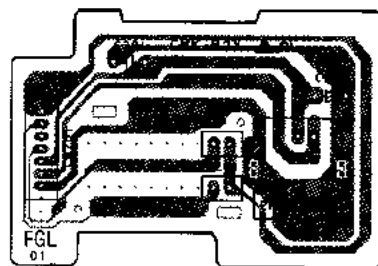
POWER SUPPLY PCB ASSEMBLY

(Viewed from the solder side)



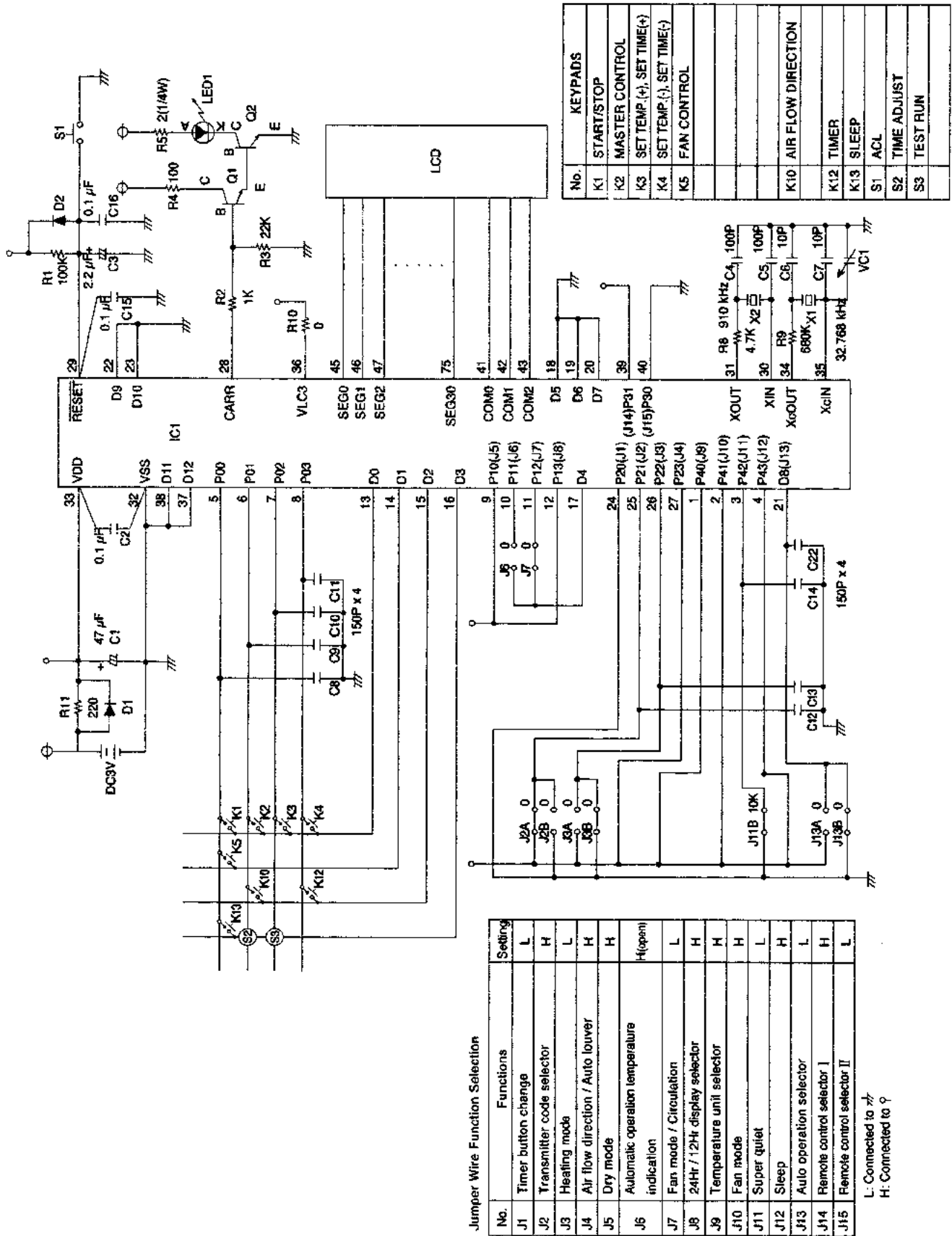
INDICATOR PCB ASSEMBLY

(Viewed from the solder side)

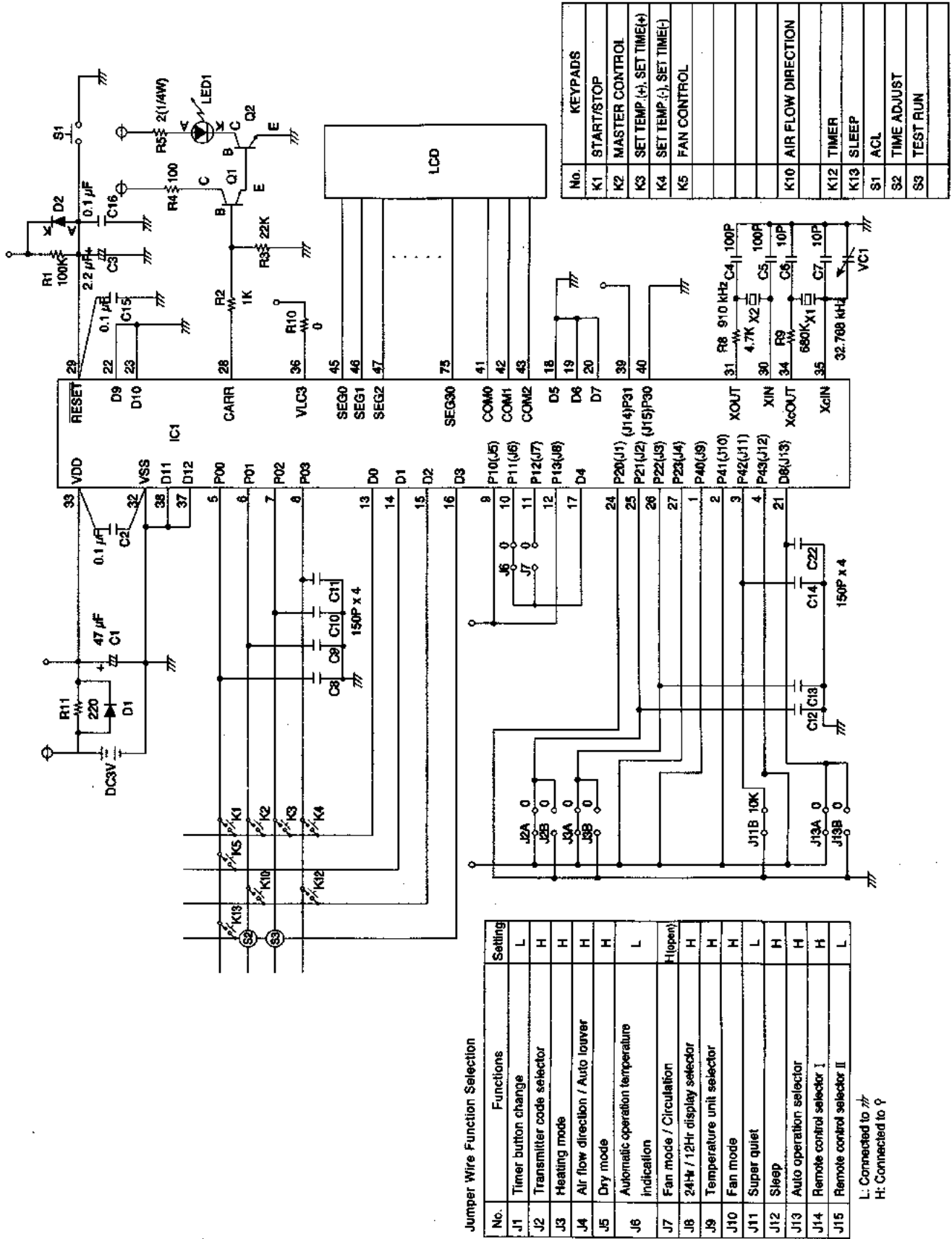


REMOTE CONTROL UNIT CIRCUIT DIAGRAM

Model : ASY17ASH-W

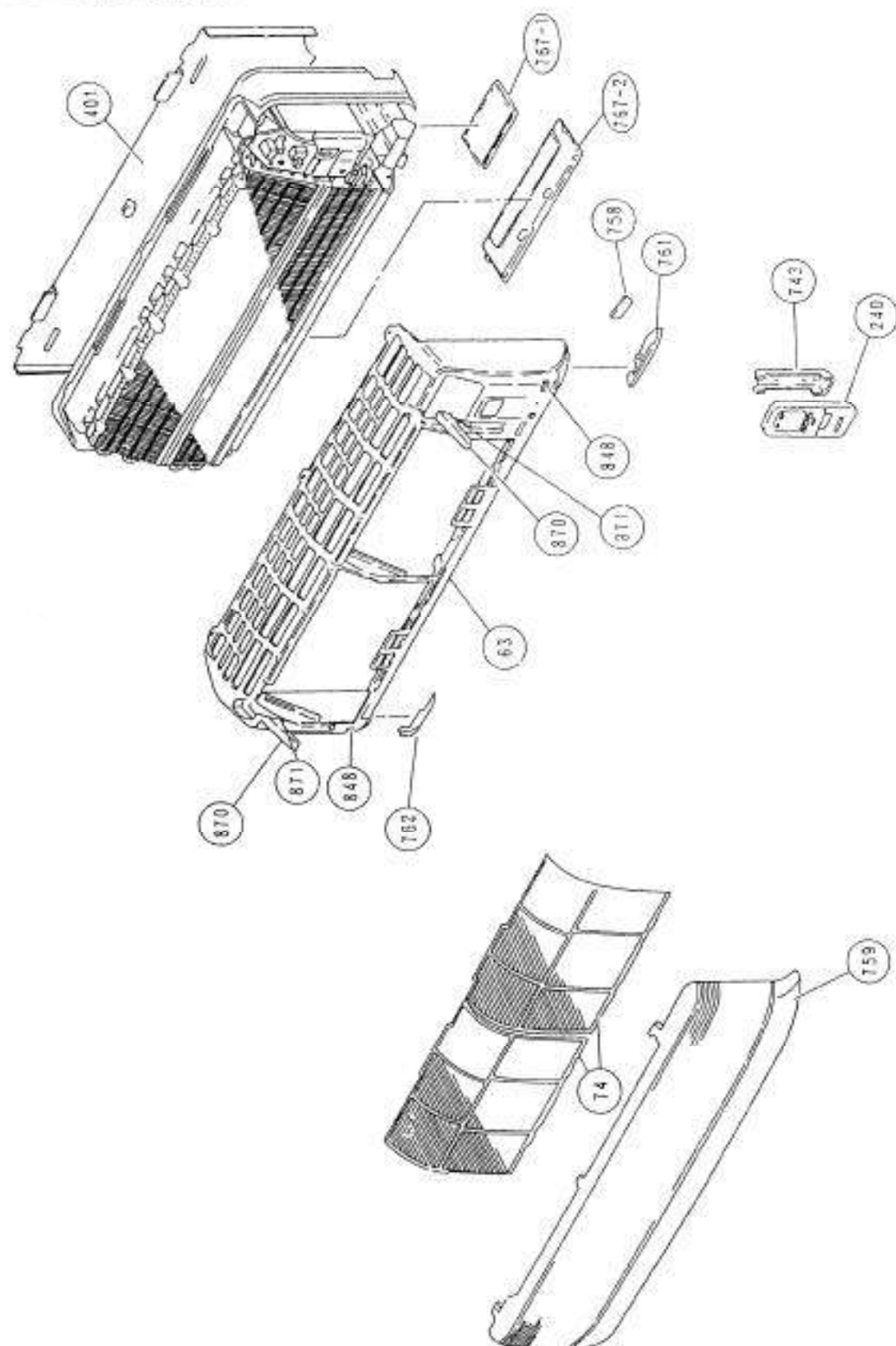


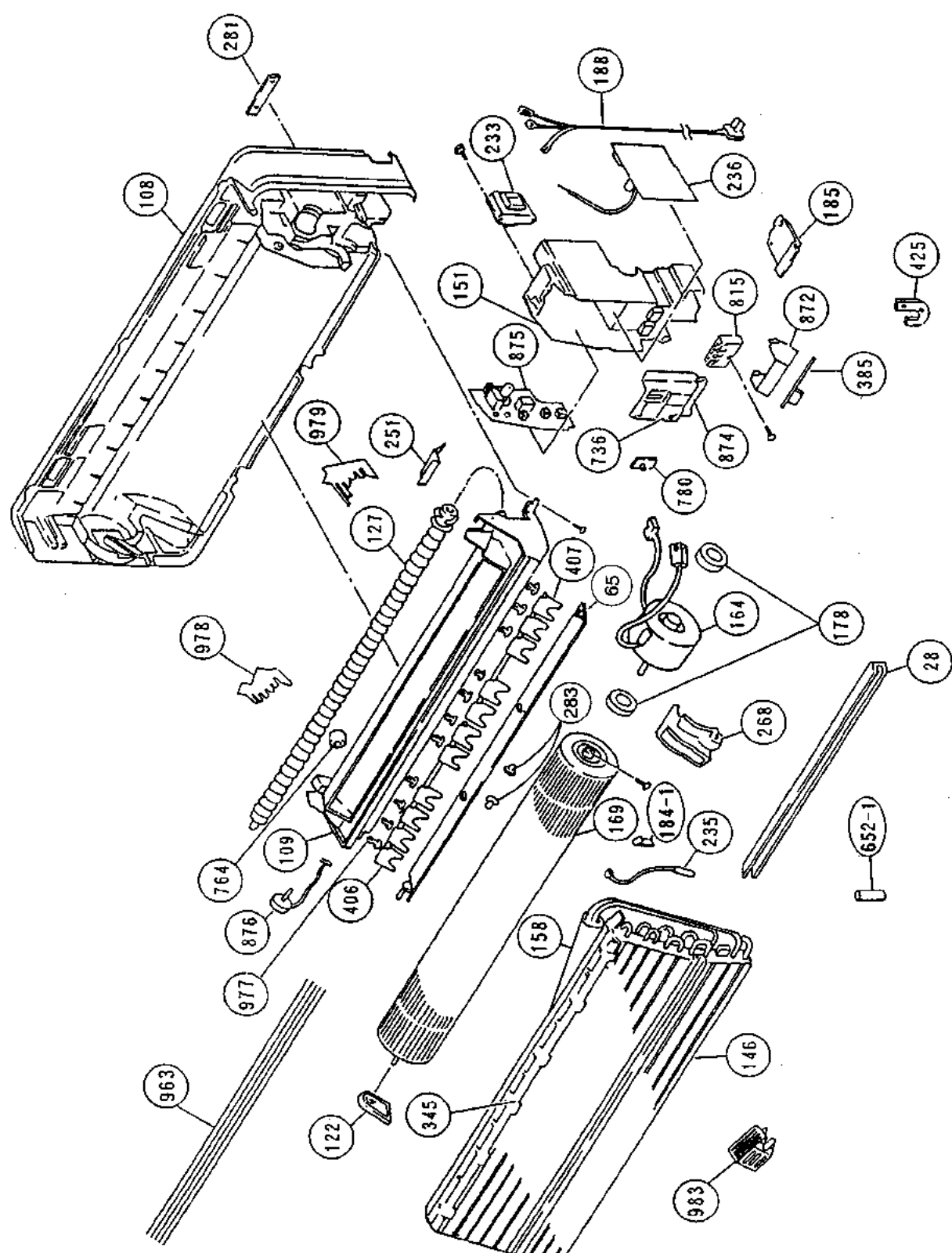
Model : ASY17RSH-W



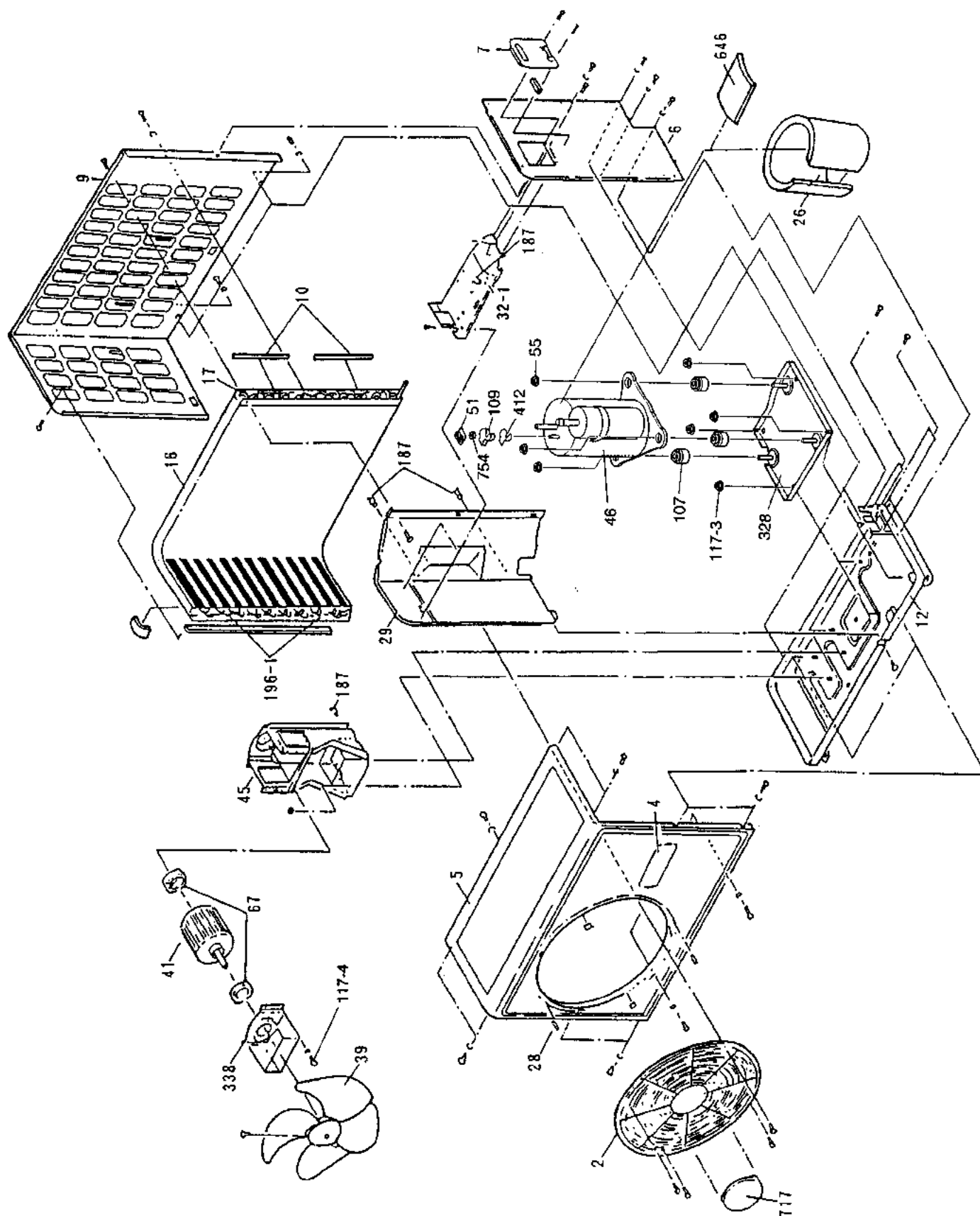
DISASSEMBLY ILLUSTRATION

Models : ASY17ASH-W
ASY17RSH-W

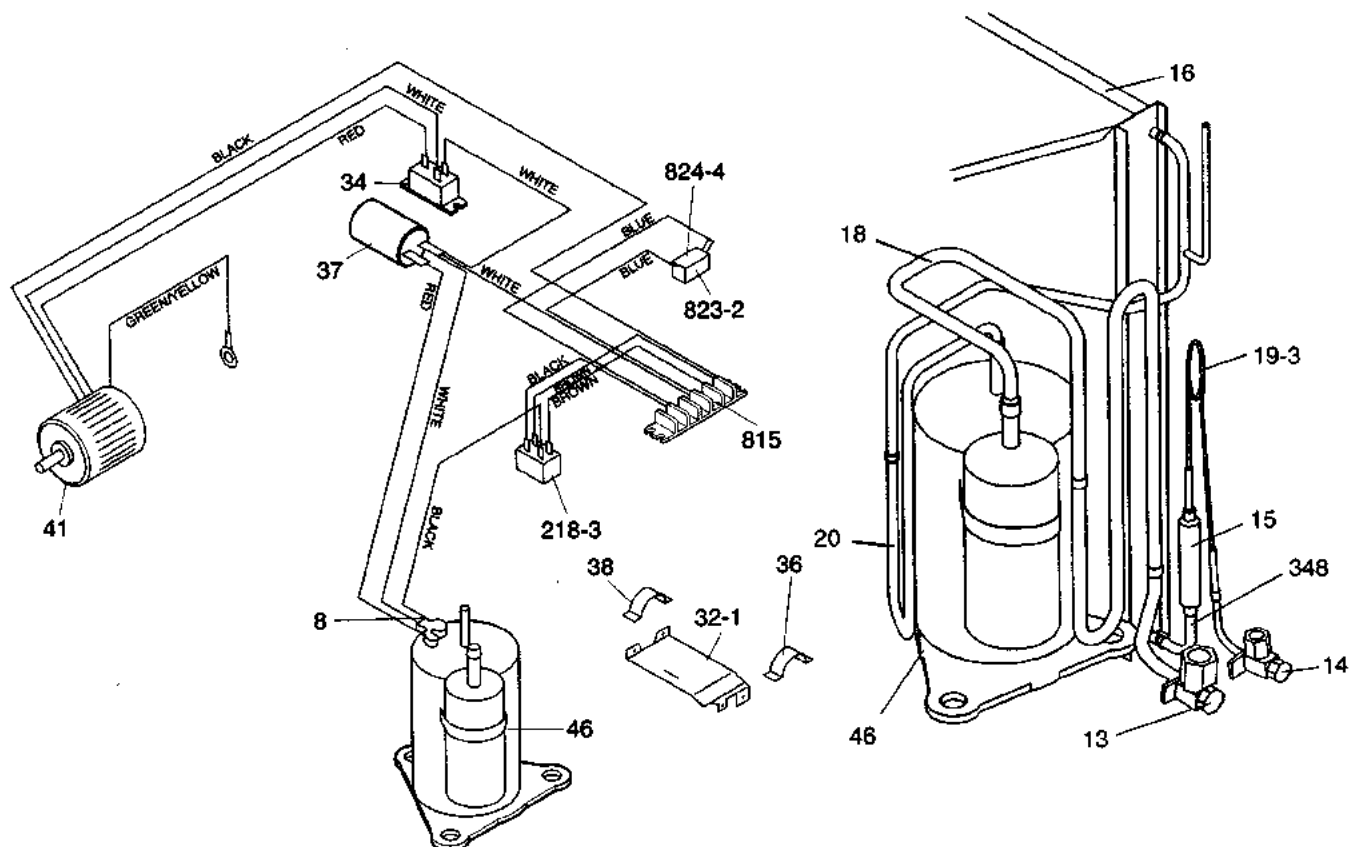




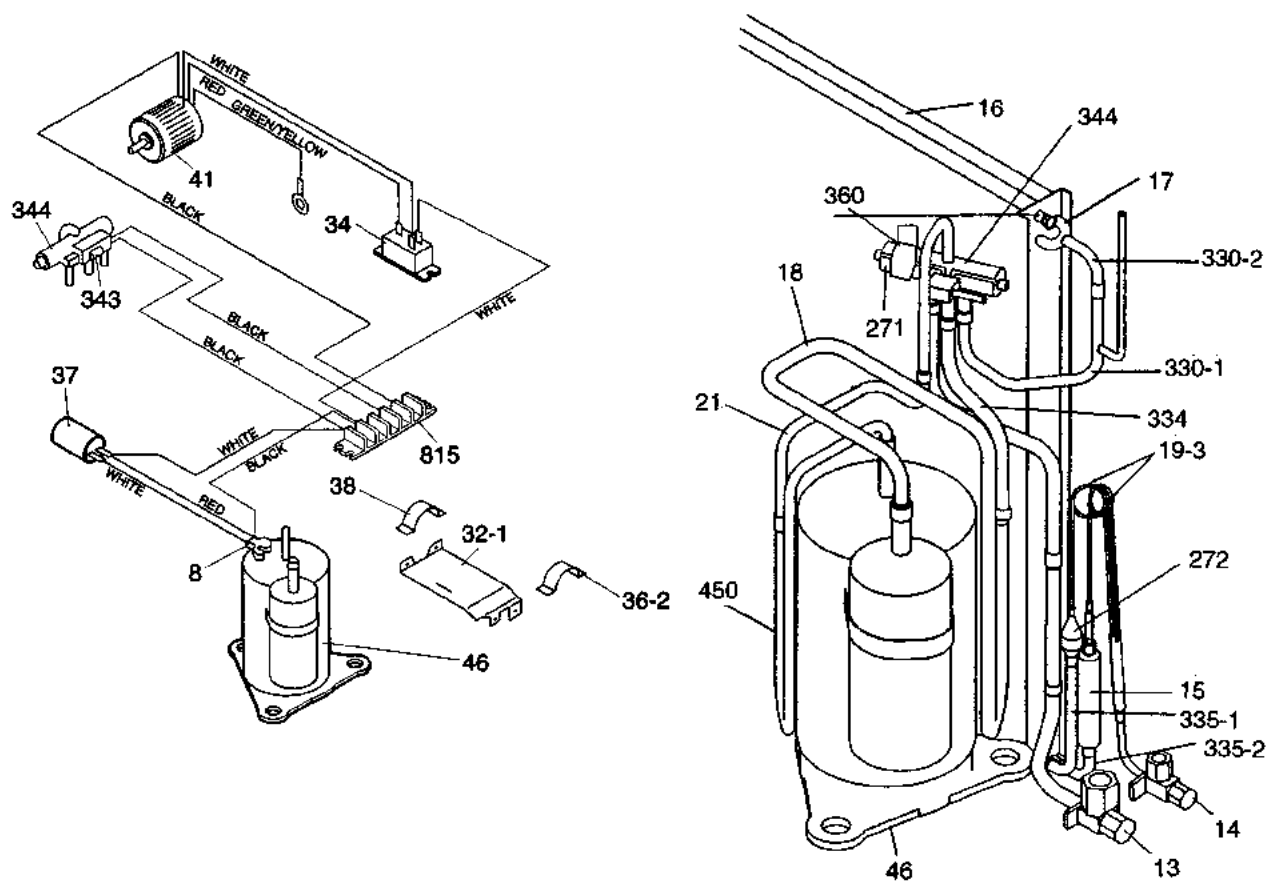
Models : AOY17ANA
AOY17RNA



Model : AOY17ANA



Model : AOY17RNA



PARTS LIST

When you order parts, please make a photocopy of this page and fill the number of the parts in the "Order" column.

INDOOR UNIT

Ref. No.	Description	Part No.		Order Q'ty	Ref. No.	Description	Part No.		Order Q'ty
		ASY17ASH-W	ASY17RSH-W				ASY17ASH-W	ASY17RSH-W	
28	Blower Cover	9304111016	9304111016		406	Louver-L Assy	9354644014	9354644014	
63	Front Panel Assy	9354645028	9354645028		407	Louver-R Assy	9354643017	9354643017	
85	Flow Control Panel	9354646049	9354646049		425	Earth Terminal	9357852003	9357852003	
74	Filter	9304097013	9304097013		652-1	Thermistor Holder Pipe	313714262805	313714262805	
108	Base	9304107033	9304107033		736	Operation Panel	9354230002	9354230002	
109	Casing	9304108016	9304108016		743	Remote Control Unit Holder Case	9305642014	9305642014	
122	Shaft Holder-B Assy	9304470007	9304470007		758	Decoration Plate-A	9354223011	9354223011	
127	Drain Hose Assy	9304761013	9304761013		759	Intake Grille-B "FUJITSU"	9357856018	9357856018	
146	Evaporator Assy	9304589006	9304589006		761	Side Cover-R	9303518052	9303518052	
151	Control Box	9304092001	9304092001		762	Side Cover-L	9303520093	9303520093	
158	Connecting Pipe Assy	9304286011	9304286011		764	Drain Cap Assy	9304150008	9304150008	
164	Fan Motor Assy-In	9354513044	9354513044		767-1	Bottom Cover-A	9303536056	9303536056	
169	Cross-flow Fan Assy	9306327002	9306327002		767-2	Bottom Cover-B	9303537053	9303537053	
178	Motor Cushion-G	9304669005	9304669005		780	Key Top (Slide Switch)	9303526002	9303526002	
184-1	Thermostat Spring-A	313728262708	313728262708		815	Terminal-3P	9701955046	-	
185	Wire Clamp	9356959000	9356959000		815	Terminal-4P	-	9701955039	
188	Power Cord Assy	9359917007	9359917007		848	Catcher	9306545000	9306545000	
233	Power Transformer	9701803026	9701803026		870	Arm	9303525005	9303525005	
235	Thermistor Assy-Pipe	9702325015	9702325015		871	Arm Spring	9304377009	9304377009	
236	Controller PCB Assy	9701553051	9701553143		872	Indicator Case	9303631003	9303631003	
240	Remote Control Unit	9356602029	9356602036		874	Control Box Cover	9304094005	9304094005	
251	Hose Clamp	9304077008	9304077008		875	Power Supply PCB Assy	9702451035	9702451011	
268	Motor Cover-B	9304231004	9304231004		876	Step Motor	9304535003	9304535003	
281	Clamp Metal (Pipe)	9304242000	9304242000		963	Fan Guard	9356881011	9356881011	
283	Bushing-A	9303529010	9303529010		977	Louver Clip, Plastic	9356880014	9356880014	
345	Filter Guide	9304110019	9304110019		978	Wire Bracket-L	9356878011	9356878011	
385	Indicator PCB Assy	9701119011	9701119011		979	Wire Bracket-R	9356877014	9356877014	
401	Wall Hook Bracket	9304093008	9304093008		983	Therm. Protect Cover	9356882001	9356882001	

OUTDOOR UNIT

Ref. No.	Description	Part No.		Order Q'ty	Ref. No.	Description	Part No.		Order Q'ty
		AOY17ANA	AOY17RNA				AOY17ANA	AOY17RNA	
2	Fan Cover	9350214020	9350214020		37	Running Capacitor	9703107016	9703107016	
4	Emblem-Rear	9351355005	9351355005		38	Capacitor Clamp Metal	9351770013	9351770013	
5	Cabinet-A, Painted	9303876015	9303876015		39	Propeller Fan Assy	9300855013	9300855013	
6	Cabinet-C, Painted	9353549013	9353549013		41	Fan Motor Assy-Out	9600738023	9600738023	
7	Connector Cover	9358011010	9358011010		45	Motor Fixing Table Assy	313029311100	313029311100	
8	Wire Assy (Shield Tube)-D	9359904076	9359904083		46	Compressor Assy	9363446005	9363446005	
9	Cabinet-B, Painted	9303874011	9303874011		55	Special Nut M8	313252257701	313252257701	
10	Noise Insulation-E	313791106305	313791106305		67	Rubber (Vibration-proof)	313659068604	313659068604	
12	Base Assy, Painted	9353452054	9353452054		107	Rubber Seal (For Comp.)-A	9351049010	9351049010	
13	3-Way Valve Assy	9358022016	9358022016		178-1	Capillary Holder Rubber	-	313414274807	
14	2-Way Valve	9358023013	9358023013		187	Clamp No. 1219	313361271706	313361271706	
15	Dryer	9353789006	9353789006		196	Clamp SKB-150	313035356905	313035356905	
16	Condenser Assy	9353455055	9353455048		196-1	Clamp SKB-3M	-	312300787605	
17	"U" Pipe-Y	-	313728127102		271	4-Way Valve Rubber	-	313728251908	
18	Suction Pipe Assy	9363493009	-		272	Strainer	-	9350379026	
18	Suction Pipe-A	-	9363490008		330-1	Inlet Pipe (Cond.) Assy	-	9363476002	
19-2	Joint Pipe (Capillary Tube)	9355644006	-		330-2	Inlet Pipe (Cond.)-B	-	9363495003	
19-3	Capillary Tube (Cool)	9363436006	9363481006		334	Suction Pipe-B	-	9363483000	
20	Discharge Pipe	9363492002	-		338	Motor Fixture Metal	313029297108	313029297108	
21	Discharge Pipe-B	-	9363482003		343	Solenoid Coil	-	9359616092	
26	Compressor Cover-A	9363620007	9363620007		344	4-Way Valve	-	313943302804	
28	Insulation (Fan Cover)	313791345206	313791345206		360	4-Way Valve Band	-	313986251802	
29	Separate Wall	313986033213	313986033213		450	Discharge Pipe-A	-	9363494006	
32-1	Control Box Metal-A	9353595003	9353595003		646	Compressor Cover-B	9363021004	9363021004	
34	Capacitor (Fan Motor)	9357965017	9357965017		717	Center Plate	9350216017	9350216017	
36	Cord Holder Metal	9356934007	-		815	Terminal-5P	9356497021	9356497021	
36-2	Cord Holder Metal	-	9356362008		826	Condensing Pipe-B	9353601001	313986175805	
					867	Accumulator Holder Rubber	-	9354022027	

CONTROLLER PCB ASSEMBLY (Ref. No.236)

When you order parts, please make a photocopy of this page
and fill the number of the parts in the "Order" column.

Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
IC1	IC MB89625R-SH-680	1301163033		R35	Res. 49.9k Ω ±0.5%	0200344683	
IC2	IC NJM7805FA	0100462081		R51	Res. 1.5k Ω ±5%	0200212784	
IC3	IC NJM2904M	0100534054		JP1, 4, 12.	Res. 0 Ω	0200230016	
IC4	IC PST600CNTR	0101461120		JC1, 3~7, 9~			
IC5, 6	IC MC1413DR2	0101736013		12, 17, 18			
IC7	IC MM93C46M8-X	0101622026		C6	Cap. Elec. 25V 1000 μ F	0300631256	
Q1	Xstr DTC124EK	0000517034		C9~14, 20~25	Cap. Ceramic 0.1 μ F	1902783046	
D5	Diode D1F60	0000208024		32~34			
R2, 7, 30~33	Res. 22k Ω ±5%	0200213095		C19	Cap. Ceramic 1000pF	1902829072	
R3, 24	Res. 1k Ω ±5%	0200212746		C26, 27	Cap. Ceramic 1 μ F	1800119015	
R4	Res. 4.7k Ω ±5%	0200212906		X1	Ceramic Resonator CST8.38MTW-TF01	1300116019	
R5, 9~14, 19, 20, 26~29, 36 ~42	Res. 10k Ω ±5%	0200213019		BZ1	Buzzer PKM13EPY-4000-TF01	9701298013	
R6	Res. 33k Ω ±5%	0200213132		L1~3	EMI Filter BLM31A601SPT	0400119029	
R8	Res. 1M Ω ±5%	0200213491		JP5, 7~9, 13, 14	Wire IPS-3002-4	1903332014	
R15	Res. 100k Ω ±5%	0200213255		CN8	Plug, PCB B5B-PH-K-S	0500200061	
R16	Res. 1.8k Ω ±5%	0200691725		CN9	Plug, PCB 175487-7	0500891016	
R18	Res. 1.2k Ω ±5%	0200691534		CN11	Plug, PCB B5SP-SHF-1AA	0500898015	
R22, 23	Res. 330 Ω ±5%	0200212623		CN12	Thermistor (Room Temp.)	9700801023	
R25	Res. 1.2k Ω ±5%	0201001769		CN13	Plug, PCB B2B-XH-A	0500005055	
R34	Res. 10k Ω ±0.5%	0200344010		CN16	Plug, PCB 175487-8	0500891023	

POWER SUPPLY PCB ASSEMBLY (Ref. No.875)

() : Reverse cycle model

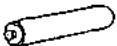
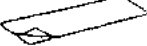
Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
Q101	Xstr 2SD880	0000001014		L101	EMI Filter ELF15N008A	0400165071	
D101	Diode 1TVB20	0000292054		SW101	Slide Switch 8SS1012-1	9701425010	
D102, 103, (105) (106)107	Diode 1SR35-200A	0000016018		SW102	Push Switch EVDPF04R	9700891017	
D104	Diode RD16EB1	0000296014		F101	Fuse BET3, 15A - 250V	0600222512	
R101	Res. Carbon 1/4W 1k Ω ±5%	0201038758		CN101	Fuse Holder SN-5057	9700116011	
R102	Res. Carbon 1/4W 10k Ω ±5%	0201005019		CN102	Plug, PCB 53405-0210	0500940011	
(CR101, 102)	Network RPEL-121204	9701125012		CN103	Plug, PCB B2B-XH-A	0500005055	
C101	Cap. Plastic 400V 1.3 μ F	0300939048		CN105	Plug, PCB B2P3-VH-B	0500011728	
C102, 103	Cap. Plastic 0.1 μ F	0300304075		CN106	Plug, PCB B3P5-VH-B	0500011735	
C104	Cap. Elec. 50V 2200 μ F	0301190981		CN107	Plug, PCB B2P-VH-B	0500011124	
C105, 111	Cap. Elec. 25V 10 μ F	0300007341			Wire w/Connector L=180	9701052011	
C107, 108	Cap. Ceramic 0.1 μ F	0300988251		JN101~103	Wire 0.6mm dia. L=10mm	9700025016	
C109, 110	Cap. Ceramic 4700pF	0300209110		JN105, (106)	Wire 0.6mm dia. L=15mm	9700672012	
VA101	Varistor ERZ-V10V471CS	0000515139		W101	Wire w/Terminal L=190 WHT	9703280016	
VA102	Arrester CP2470-F	9701835010		(W102)	Wire w/Terminal L=230 BLU	9701169016	
SSR101	Relay G3M-202PL-UTU	9701375011		(W103)	Wire w/Terminal L=220 RED	9701170012	
K101	Relay G4A-1A-PS	9701024018		E	Wire w/Terminal L=250 GRN	9701150014	
(K102, 103)	Relay G5S-1	9701925018					

INDICATOR PCB ASSEMBLY (Ref. No.385)

() : Reverse cycle model

Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
X201	Remote control Amplifier SBX1810-22	0101525129		CN201	Wire w/Connector L=250 Lamp Cover-A	9700923015	
D201	Diode SLR-34LR RED	0000727013		C201	Cap. Ceramic 0.1 μ F	9303702000	
D202	Diode SLR-342NG GRN	0000727167		C202	Cap. Elec. 25V 10 μ F	0300988251	
(D203)	Diode SLR-342DU ORG	0000727150				0300328026	

INDOOR UNIT ACCESSORIES

Name and Shape	ASY17ASH-W	ASY17RSH-W
Wall hook bracket 	9304093008	9304093008
Wall cap 	313714296205	313714296205
Remote control unit 	9356602029 (AR-AB9)	9356602036 (AR-AB10)
Battery (penlight) 	0600185534	0600185534
Cable mark 	_____	9301385007
Tapping screw (Big) ($\phi 4 \times 20$) 	301141164200	301141164200
Tapping screw (Small) ($\phi 3 \times 12$) 	301141533125	301141533125
Flange screw ($\phi 4 \times 10$) 	9305114009	9305114009
Remote control unit holder case 	9305642014	9305642014
Cloth tape 	9304232001	9304232001
Seal-A 	9304536000	9304536000

OUTDOOR UNIT ACCESSORIES

Name and Shape	AOY17ANA	AOY17RNA
Hexagon wrench 	9351228019	9351228019
Drain pipe 	_____	313728031005
Flexible tube 	_____	313013042915
Drain cap 	_____	313166024302