

SPLIT TYPE ROOM AIR CONDITIONER WALL MOUNTED type

SERVICE MANUAL

Models	Indoor unit	Outdoor unit
3DEF 1110	ASY17ASE-W	A0Y17ABA
2110	ASY17RSB-W	A0Y17RBA

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

INDOOR UNIT	ASY17ASE-W	ASY17RSB-W
OUTDOOR UNIT	AOY17ABA	AOY17RBA
COOLING CAPACITY (kW)	4.50 - 4.60	4.40 - 4.50
HEATING CAPACITY (kW)	—	5.00 - 5.15

ELECTRICAL SPECIFICATIONS

POWER SUPPLY (V)		220 - 240	220 - 240
FREQUENCY (Hz)		50	50
RUNNING CURRENT (A)	COOLING	9.9 - 10.3	10.1 - 10.5
	HEATING	———	10.5 - 10.9
INPUT (kW)	COOLING	2.00 - 2.10	2.02 - 2.10
	HEATING	———	2.08 - 2.19
EER (W/W)	COOLING	2.25 - 2.19	2.18 - 2.14
	HEATING	———	2.40 - 2.35
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	H24B24QABHA

FAN MOTOR

		INDOOR UNIT		OUTDOOR UNIT	
MODEL		ASY17ASE-W	ASY17RSB-W	AOY17ABA	AOY17RBA
TYPE		MFA-17AT		MFB-247FB	
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)
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WEIGHT

GROSS WEIGHT / NET WEIGHT (kg)	13 / 10	74 / 66	76 / 68
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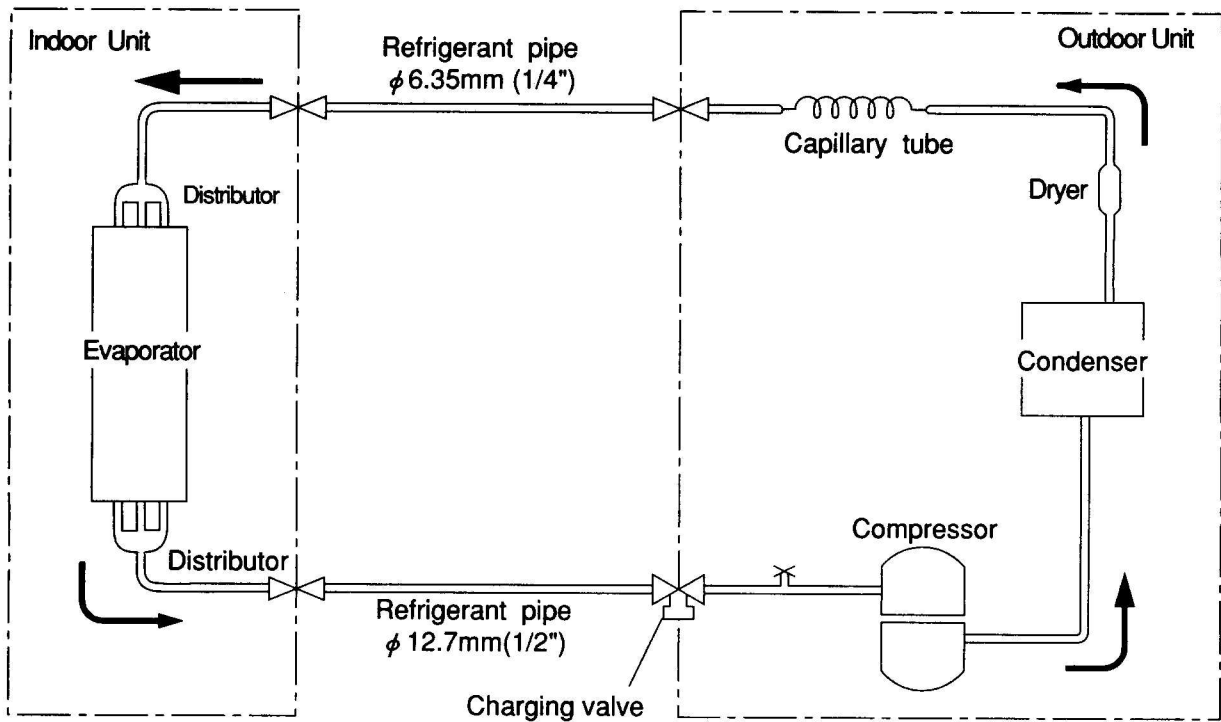
REFRIGERANT CHARGING

PIPE LENGTH		16 ft.(5 m)	23 ft.(7 m)	33 ft.(10 m)	49 ft.(15 m)	66 ft.(20 m)
FULL CHARGE AMOUNT	ASY17ASE-W	36.0 oz. (1,020 g)	37.0 oz. (1,050 g)	38.6 oz. (1,095 g)	41.3 oz. (1,170 g)	43.9 oz. (1,245 g)
	ASY17RSB-W	51.5 oz. (1,460 g)	52.6 oz. (1,490 g)	54.2 oz. (1,535 g)	56.8 oz. (1,610 g)	59.5 oz. (1,685 g)

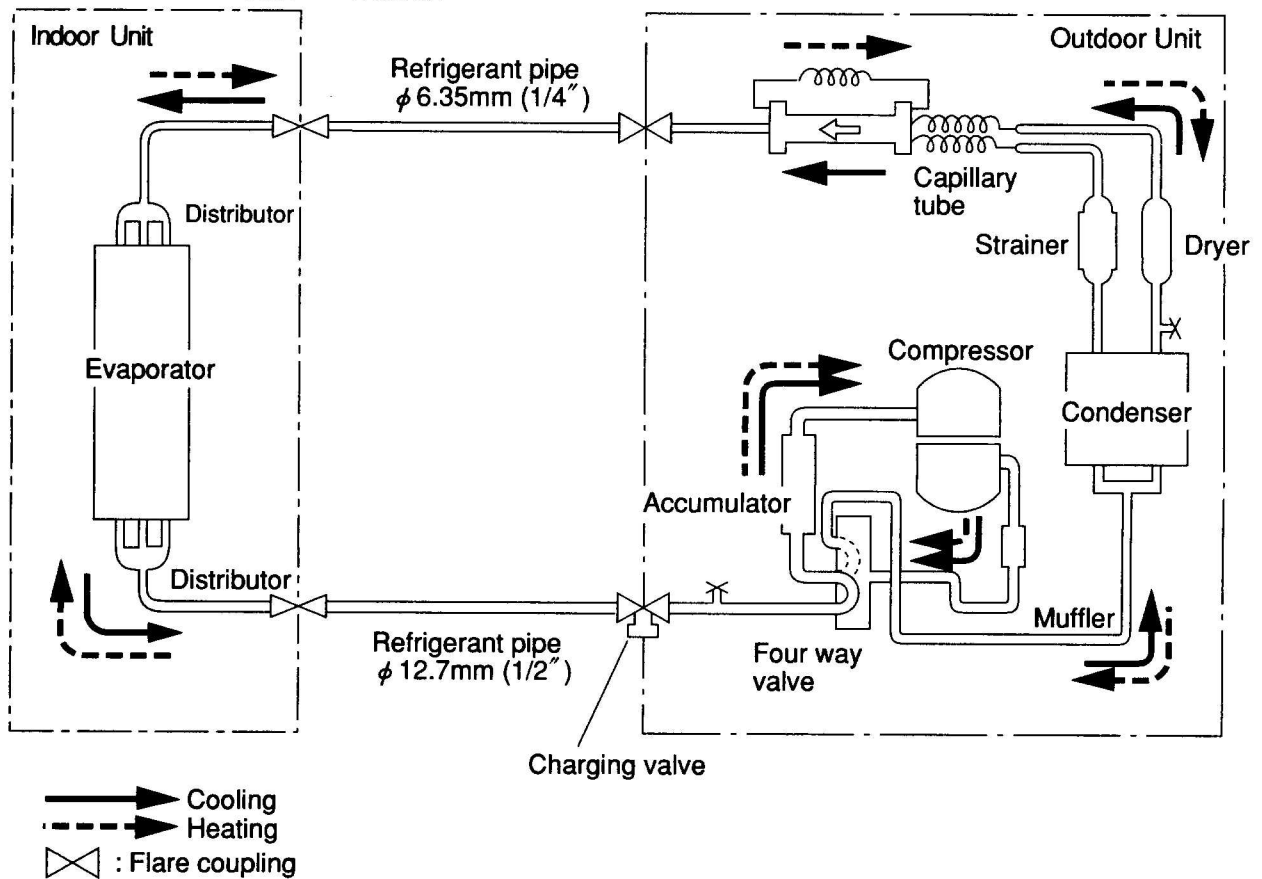
Note : Between 5m and 20m, when using a connection pipe other than that in the table, charge additional refrigerant with 0.53 oz.(15 g)/3.3 ft.(1 m) as the criteria.

REFRIGERANT SYSTEM DIAGRAM

Models : ASY17ASE-W/AOY17ABA

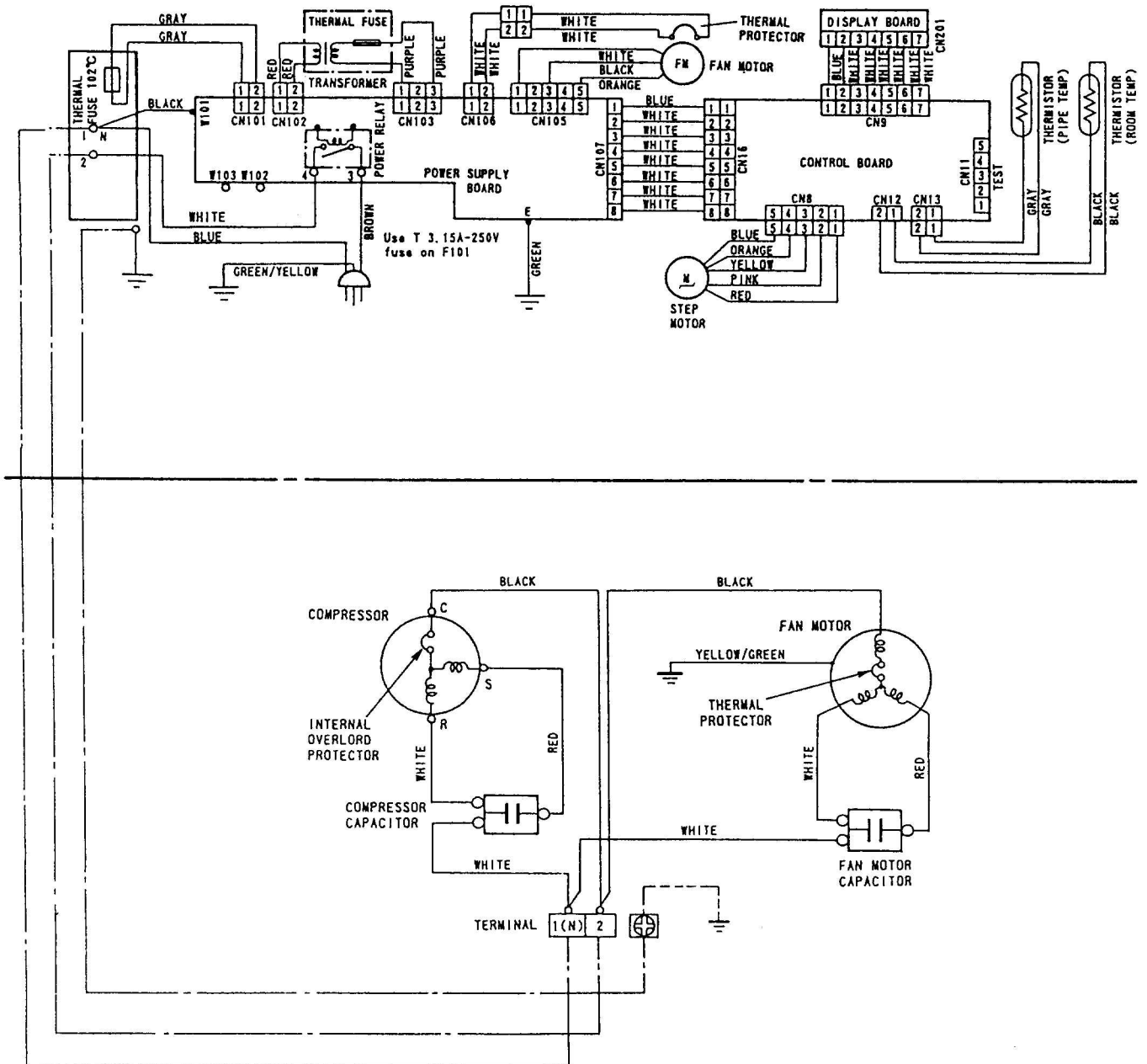


Models : ASY17RSB-W/AOY17RBA

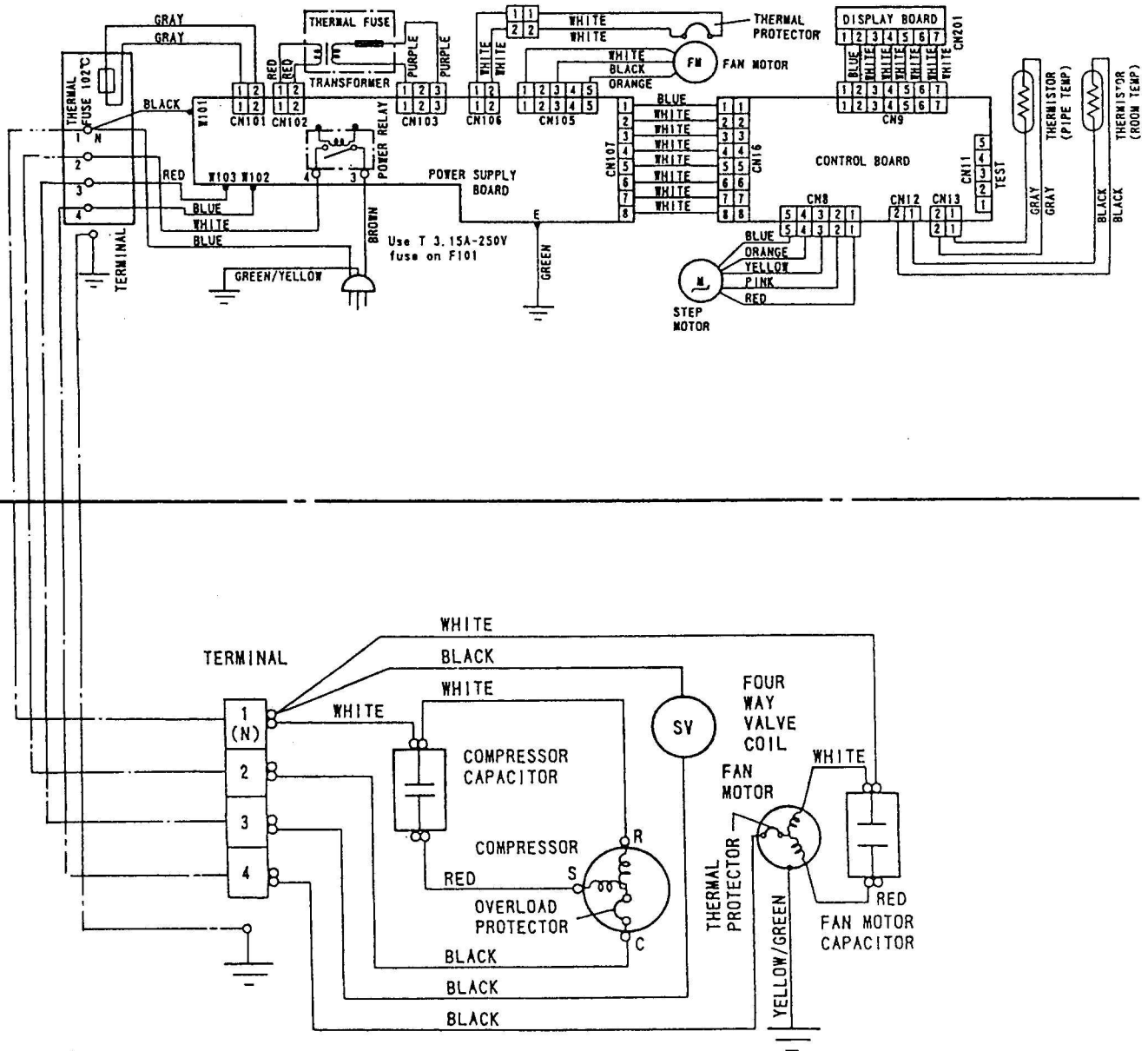


CIRCUIT DIAGRAM

Models : ASY17ASE-W/AOY17ABA



Models : ASY17RSB-W/AQY17RBA



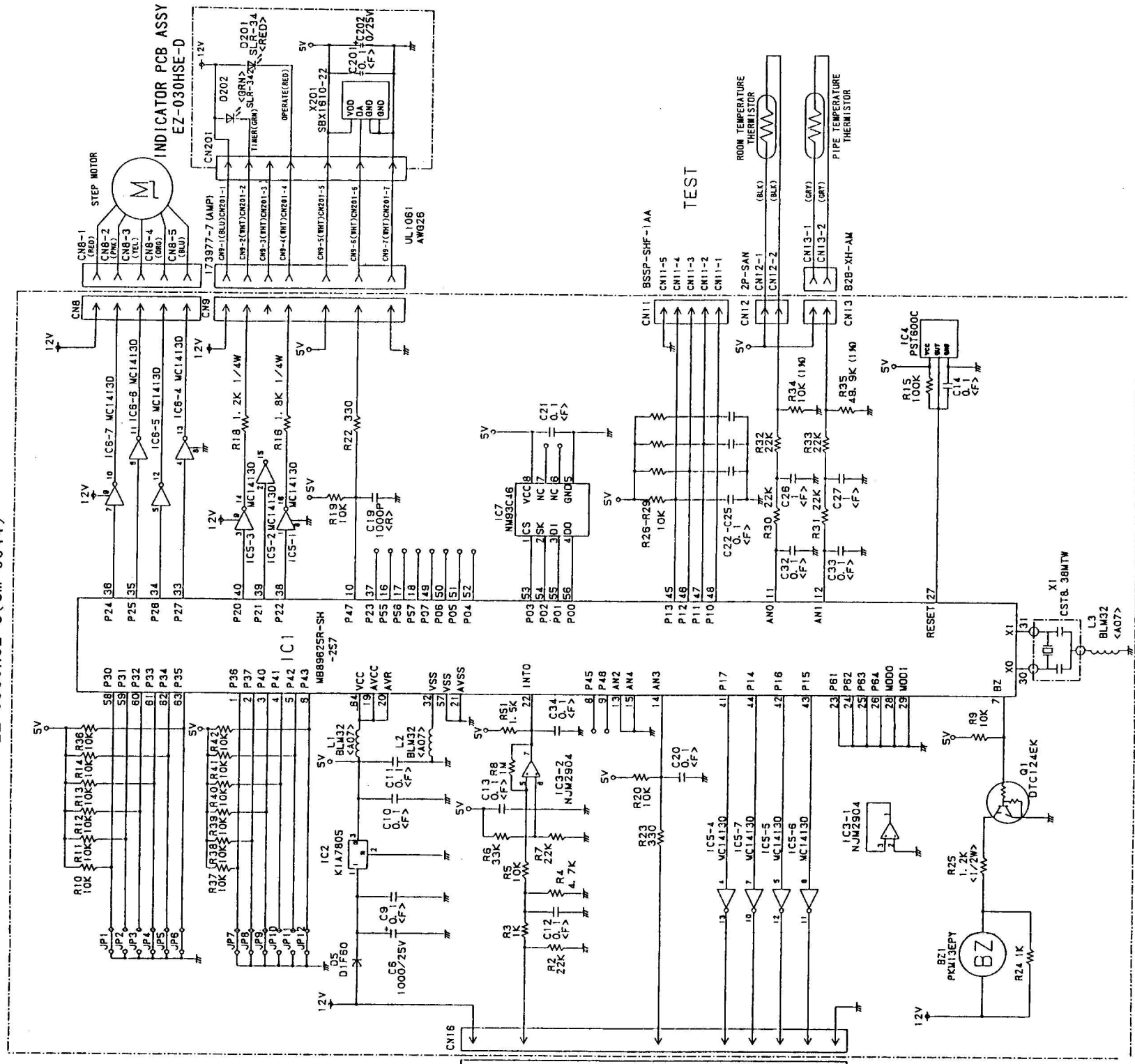
Model : ASY17ASE-W

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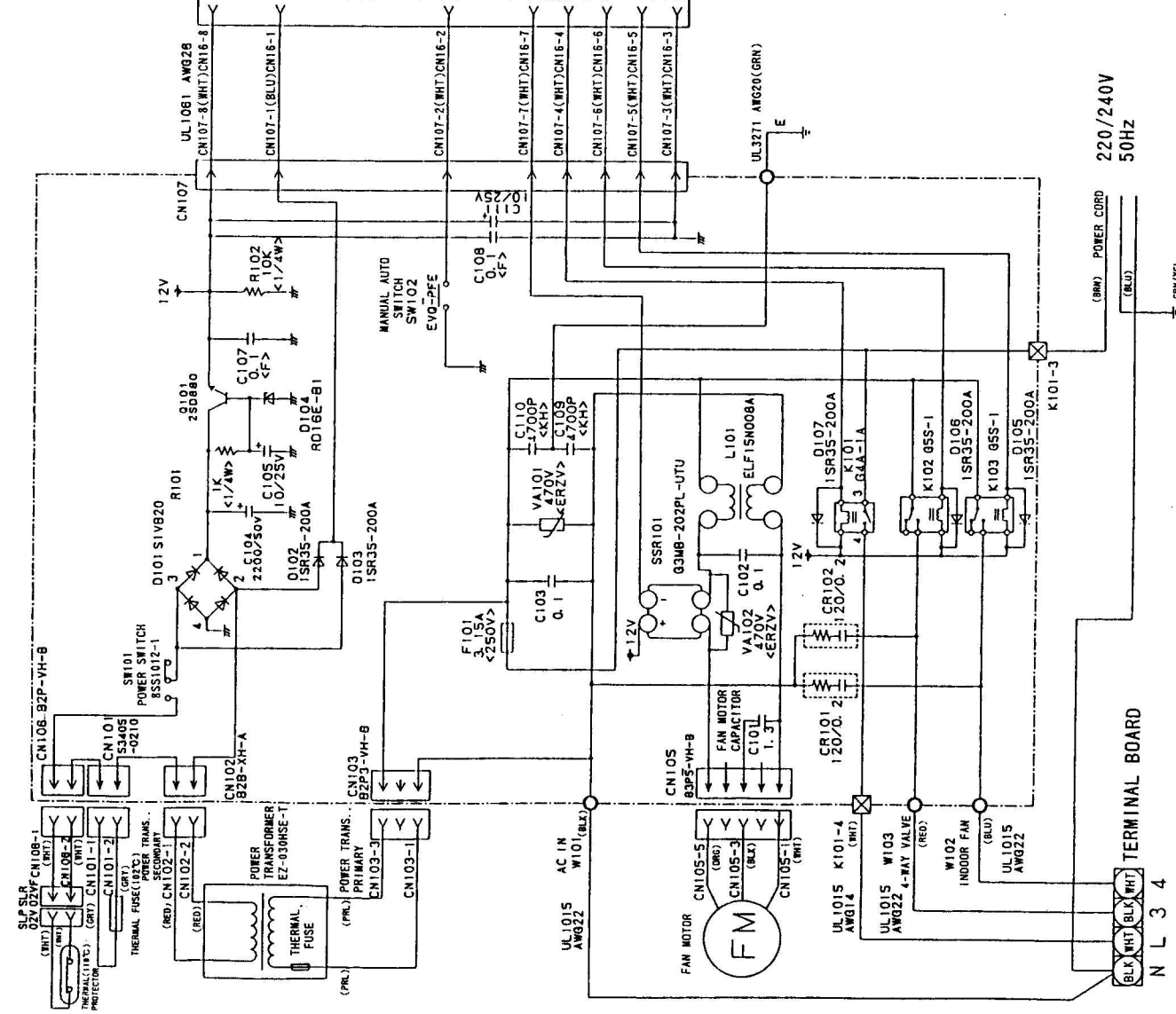
SORT OF DWG : EZ-096BWSE

Model : ASY1RSB-W

CONTROLLER PCB ASSEMBLY(MAIN PCB)
EZ-0960HSE-C(GM-6844)

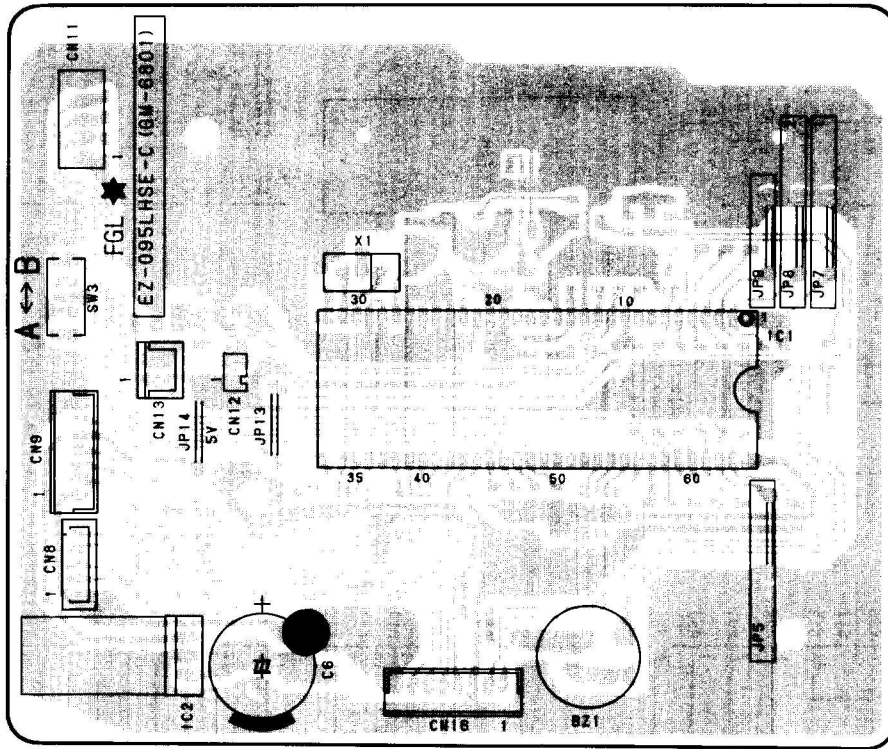


POWER SUPPLY PCB ASSY
EZ-097THSE-P

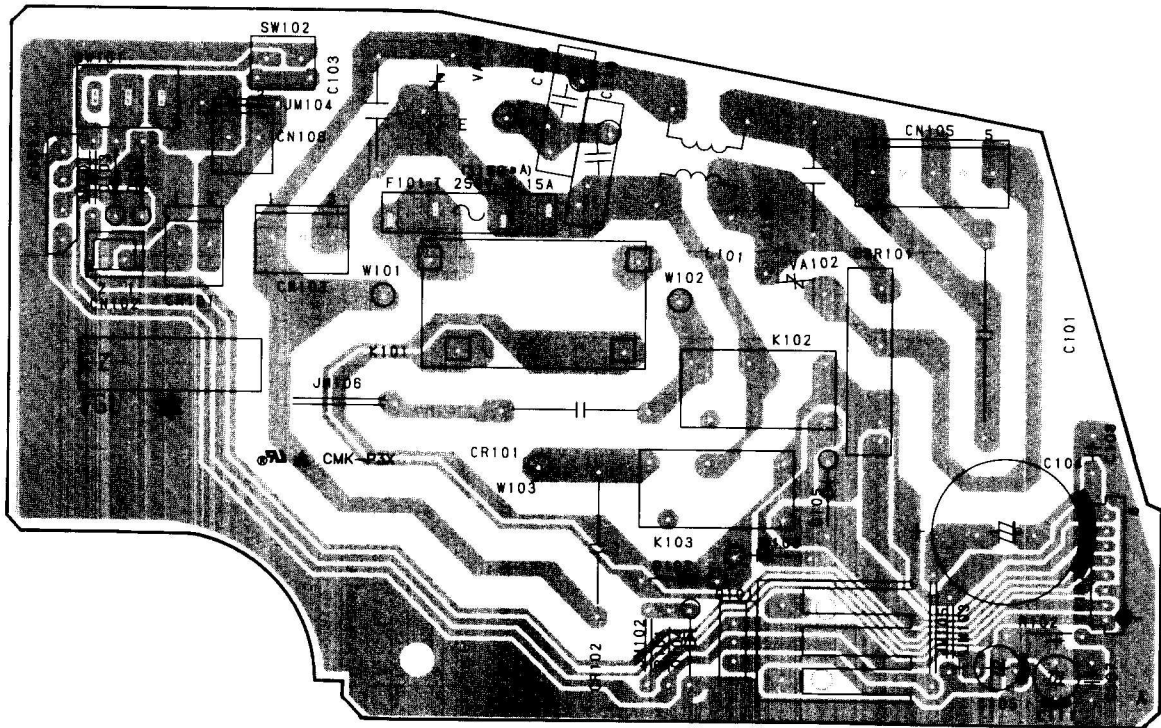


INDOOR P. C. BOARD OVERLAY

CONTROLLER PCB ASSEMBLY
(VIEWED FROM THE SOLDER SIDE)

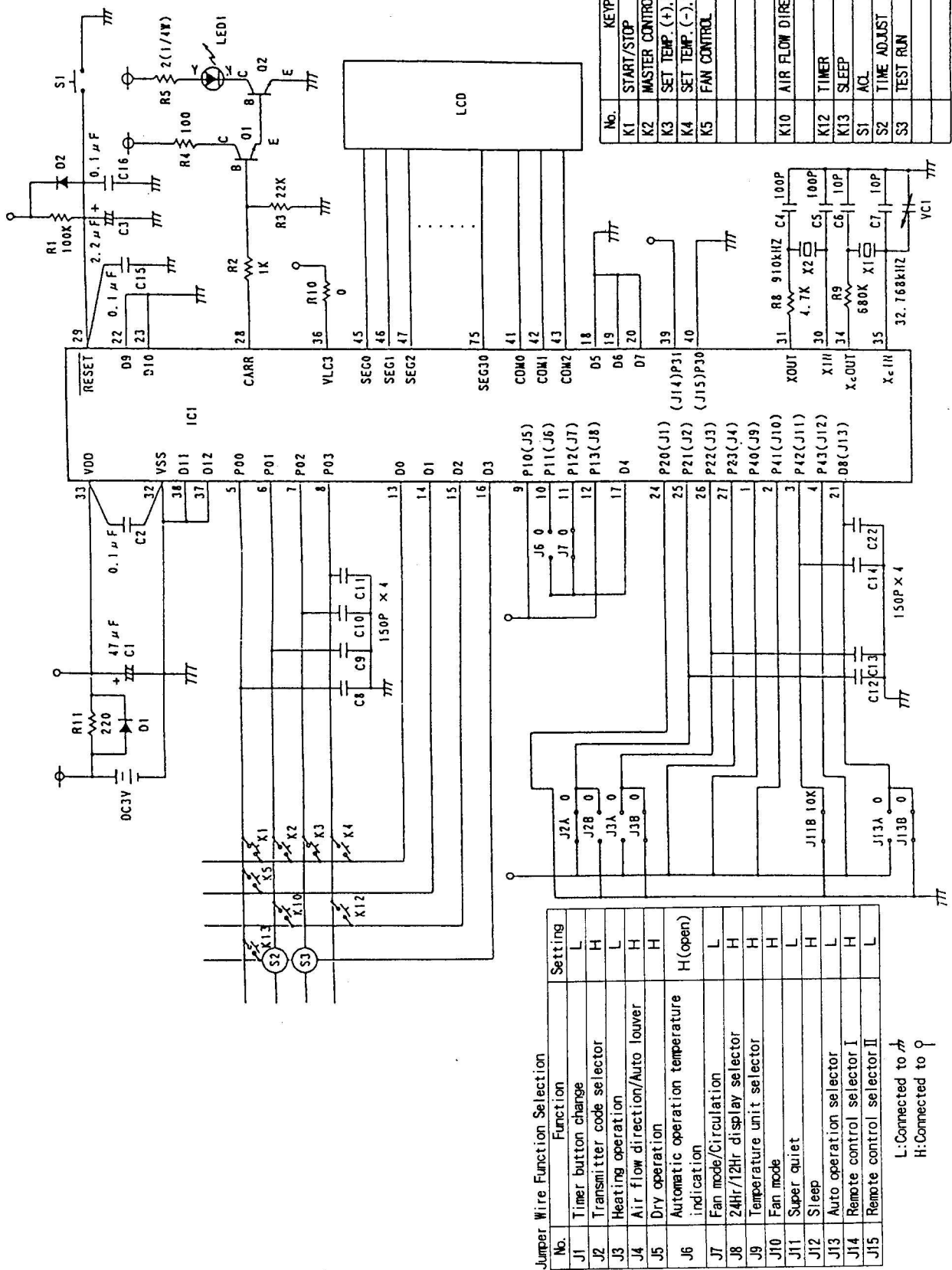


POWER SUPPLY PCB ASSEMBLY
(VIEWED FROM THE SOLDER SIDE)



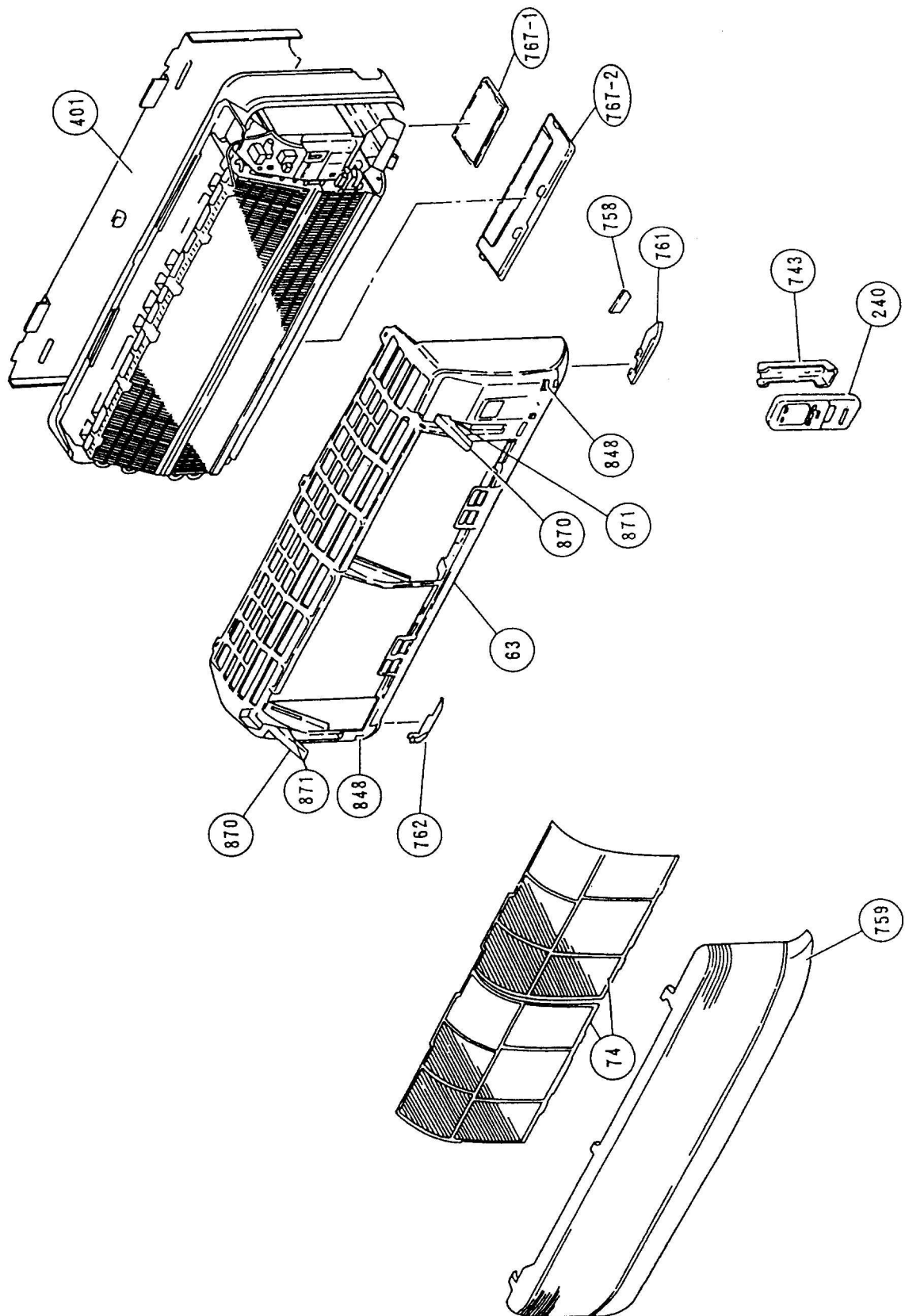
REMOTE CONTROL UNIT CIRCUIT DIAGRAM

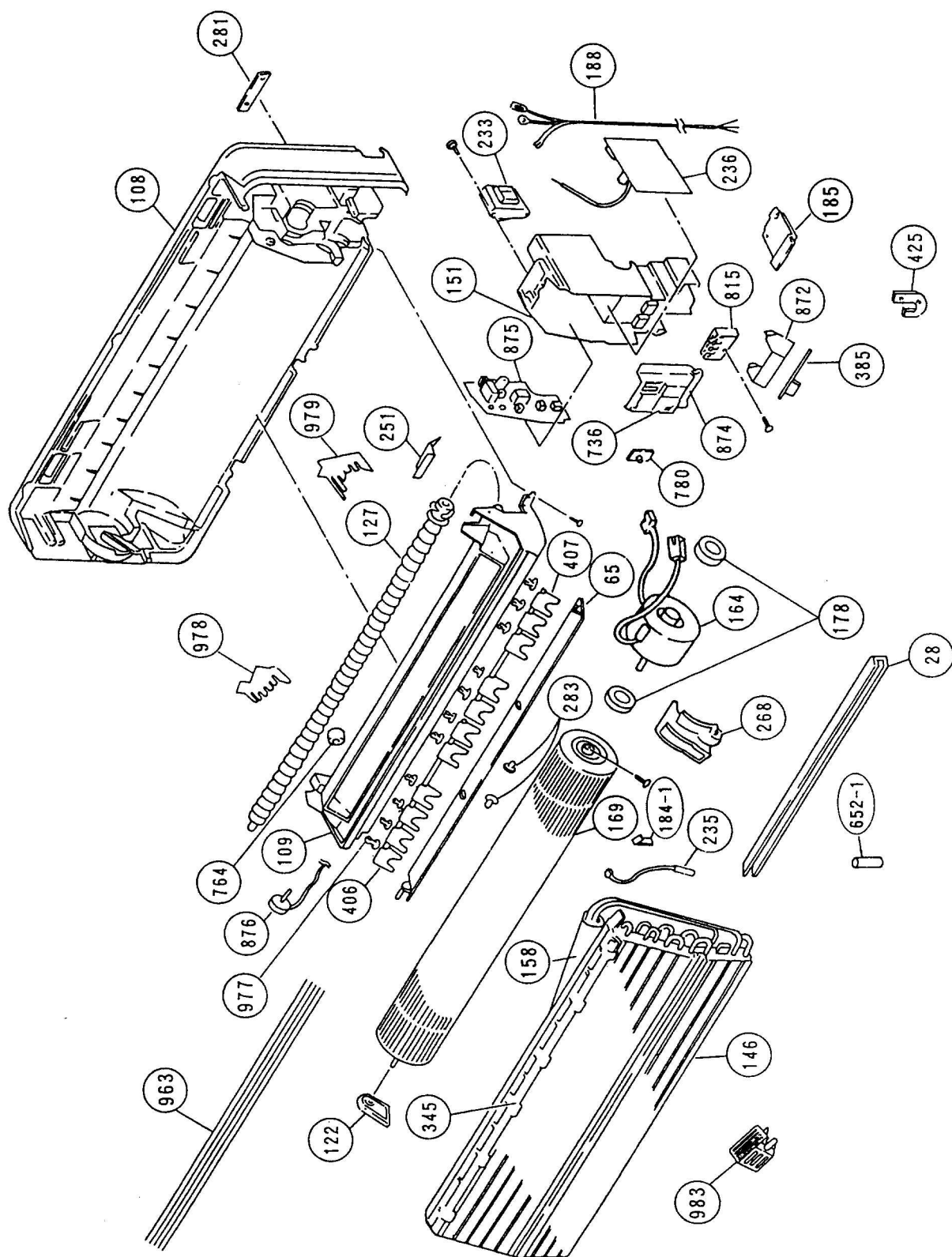
Model : ASY17ASE-W



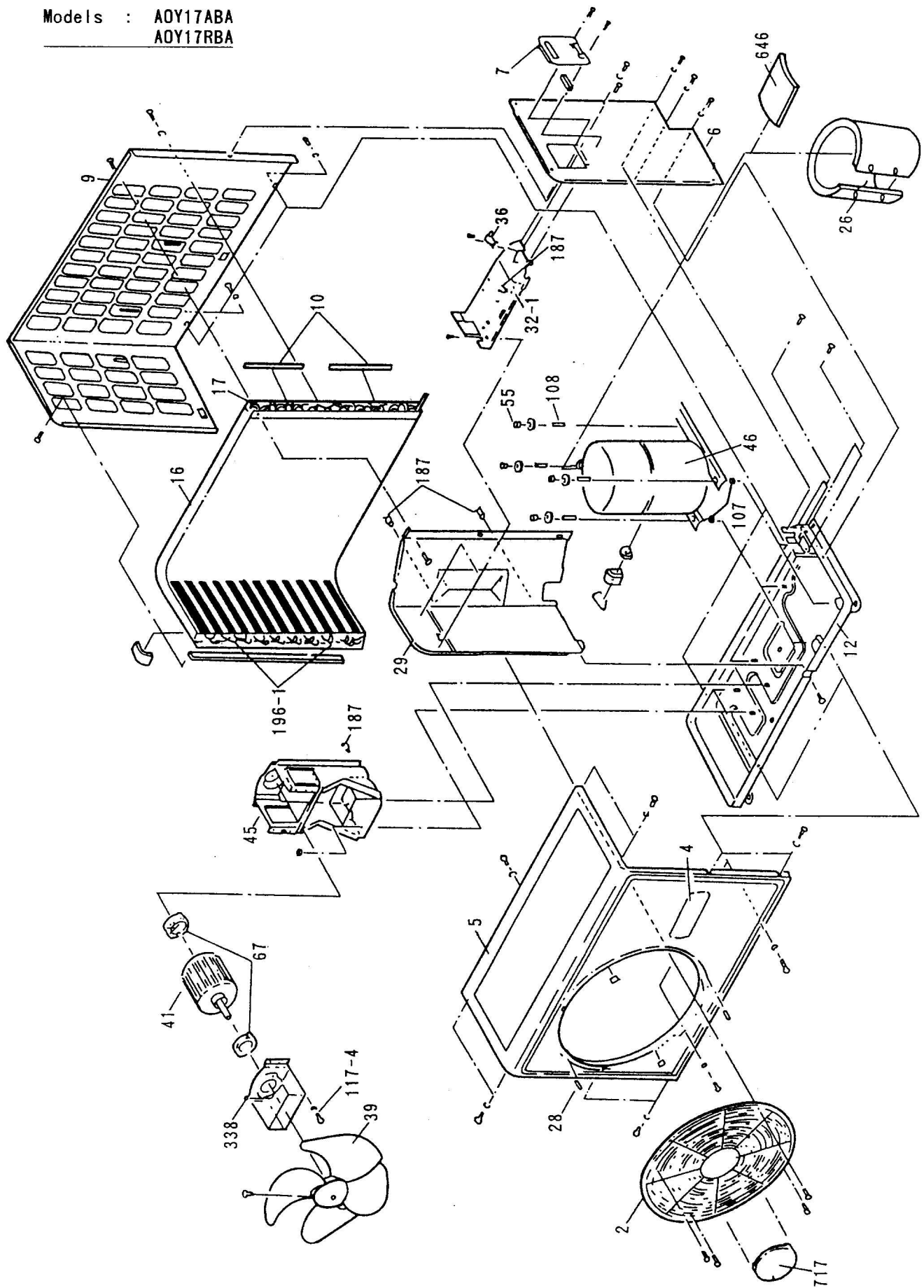
DISASSEMBLY ILLUSTRATION

Models : ASY17ASE-W
ASY17RSB-W

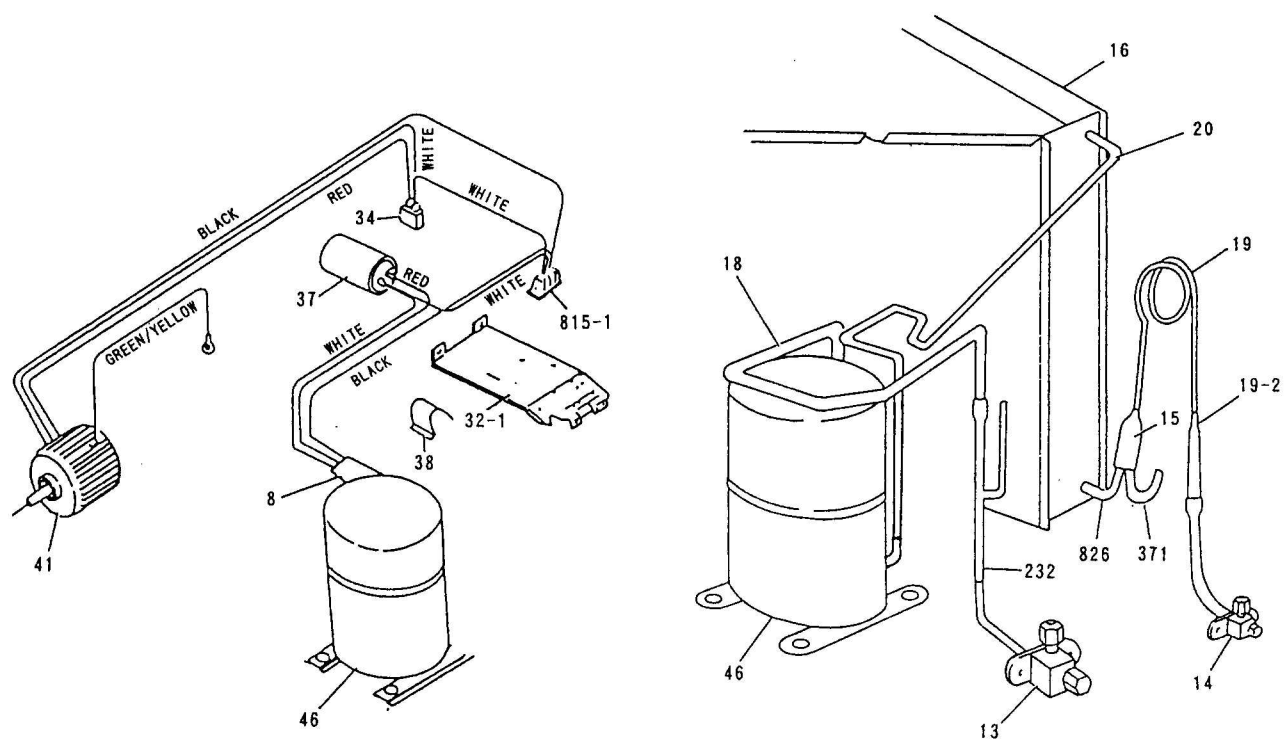




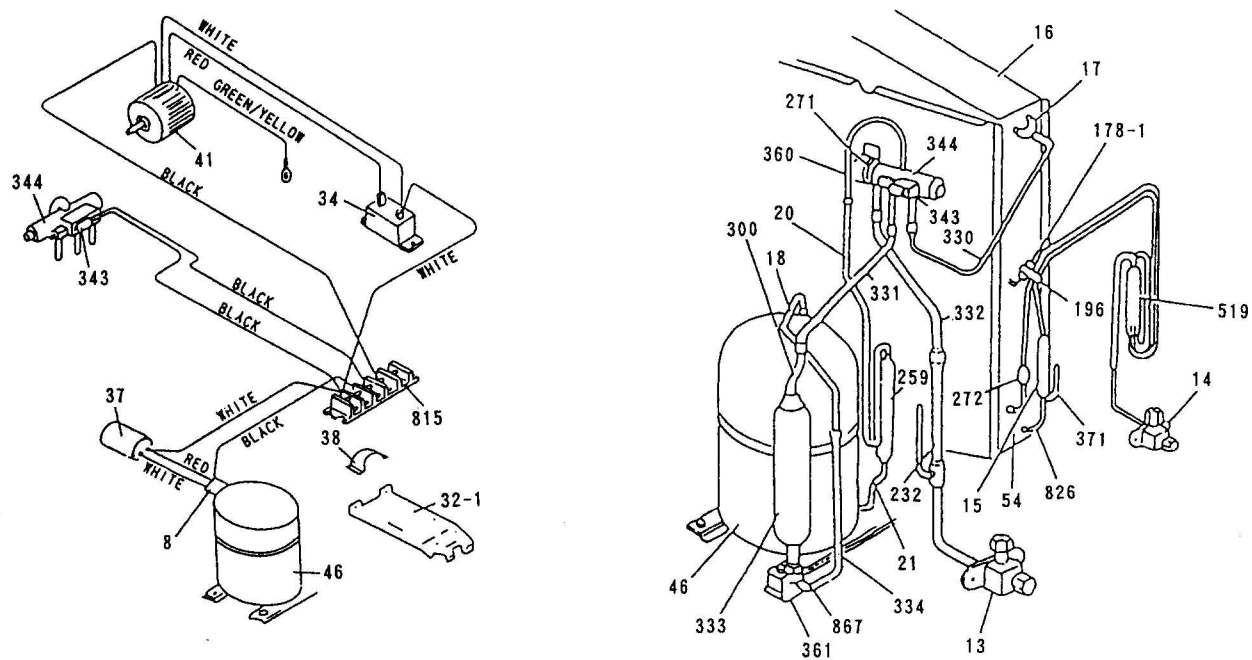
Models : AOY17ABA
AOY17RBA



Model : ADY17ABA



Model : AOY17RBA



PARTS LIST

When you order the 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.		Ord. Q'ty	Ref. No.	Description	Part No.		Ord. Q'ty
		ASY17ASE-W	ASY17RSB-W				ASY17ASE-W	ASY17RSB-W	
28	Blower Cover	9304111016	9304111016		406	Louver-L Assy	9354644014	9354644014	
63	Front Panel Assy	9354645028	9354645028		407	Louver-R Assy	9354643017	9354643017	
65	Flow Control Panel	9354646049	9354646049		425	Earth Terminal	9357852003	9357852003	
74	Filter	9304097013	9304097013		652	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-2P	9701955022		
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	9701102013	9701102013		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	9702451028	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.		Ord. Q'ty	Ref. No.	Description	Part No.		Ord. Q'ty
		AOY17ABA	AOY17RBA				AOY17ABA	AOY17RBA	
2	Fan Cover	9350214020	9350214020		67	Rubber (Vibration-proof)	313659068604	313659068604	
4	Emblem-Rear	9351355005	9351355005		107	Rubber Seat(For Comp.)-A	313102081406	313102081406	
5	Cabinet-A, Painted	9303876015	9303876015		108	Sleeve-A (For Comp.)	313696081700	313696081700	
6	Cabinet-C, Painted	9353549013	9353549013		178-1	Capillary Holder Rubber		313414274807	
7	Connector Cover	9358011010	9358011010		187	Clamp NO.1219	313361271706	313361271706	
8	Wire Assy(Shield Tube)-D	9350215058	9350215058		196	Clamp SKB-150	313035356905	313035356905	
9	Cabinet-B, Painted	9303874011	9303874011		196-1	Clamp SKB-3M		312300787605	
10	Noise Insulation-E	313791106305	313791106305		232	Pipe Assy	9355642002	9355642002	
12	Base Assy, Painted	9353452016	9353452016		259	Muffler		313755083903	
13	3-Way Valve Assy	9358022016	9358022016		271	4-Way Valve Rubber		313728251908	
14	2-Way Valve	9358023013	9358023013		272	Strainer		9350379026	
15	Dryer	313791082502	9350380022		300	Suction Pipe-C		9350358014	
16	Condenser Assy	9353455055	9353455048		330	Inlet Pipe(Cond.)-A		313986023206	
17	"U" Pipe-Y		313728127102		331	Suction Pipe-D		9350359011	
18	Suction Pipe	9360291004	9358993002		332	Suction Pipe-E		9356450002	
19	Capillary Tube	9355641005			333	Accumulator		9350363018	
19-2	Joint Pipe (Capillary Tube)	9355644006			334	Suction Pipe-B		9358994009	
20	Discharge Pipe	9360320001	9358996003		338	Motor Fixture Metal	313029297108	313029297108	
21	Discharge Pipe-B		9358995006		343	Solenoid Coil		9359616092	
26	Compressor Cover	9354036000	9354036000		344	4-Way Valve		313943302804	
28	Insulation (Fan Cover)	313791345206	313791345206		360	4-Way Valve Band		313986251802	
29	Separate Wall	313986033213	313986033213		361	Accumulator Support		313986353804	
32-1	Control Box Metal-A	9353595003	9353595003		371	Process Pipe-B	313142082352	313142082352	
34	Capacitor (Fan Motor)	9357965017	9357965017		519	Check Valve Assy		9353468031	
36	Cord Holder Metal	9356824001	9356362008		646	Compressor Cover-B	313986355101	313986355101	
37	Running Capacitor	9357211039	9357211039		717	Center Plate	9350216017	9350216017	
38	Capacitor Clamp Metal	313791061807	313791061807		815	Terminal-5P		9356497021	
39	Propeller Fan Assy	9300855013	9300855013		815-1	Terminal-3P	9356488005		
41	Fan Motor Assy-Out	9351333102	9351333102		826	Condensing Pipe-B	9353601001	313986175805	
45	Motor Fixing Table Assy	313029311100	313029311100		867	Accumulator Holder Rubber		9354020207	
46	Compressor Assy	9359010005	9359010005						
54	Condensing Pipe		313986123207						
55	Special Nut M8	313252257701	313252257701						

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-257	1300413019		R35	Res. 49.9k Ω ±0.5%	0201027554	
IC2	IC NJM7805FA	0100462081		R51	Res. 1.5k Ω ±5%	0200212784	
IC3	IC NJM2904M	0100534054		JP1, 4, 12,	Res. 0 Ω	0200230016	
IC4	IC PST600CMTR	0101461120		JC1, 3~7, 9~			
IC5, 6	IC MC1413DR2	0101736013		12, 17, 18			
IC7	IC NM93C46M8-X	0101622026		C6	Cap. Elec. 25V 1000 μ F	0300631256	
Q1	Xstr DTC124EX	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	1300116019	
R5, 9~14, 19, 20, 26~29, 36 ~42	Res. 10k Ω ±5%	0200213019			CST8. 38MTW-TF01		
R6	Res. 33k Ω ±5%	0200213132		BZ1	Buzzer PKM13EPY-4000-TF01	9701298013	
R8	Res. 1M Ω ±5%	0200213491		L1~3	EMI Filter BLN31A601SPT	0400119029	
R15	Res. 100k Ω ±5%	0200213255		JP5, 7~9, 13, 14	Wire IPS-3002-4	1903332014	
R16	Res. 1.8k Ω ±5%	0200691725		CN8	Plug, PCB B5B-PH-K-S	0500200061	
R18	Res. 1.2k Ω ±5%	0200691534		CN9	Plug, PCB 175487-7	0500891016	
R22, 23	Res. 330 Ω ±5%	0200212623		CN11	Plug, PCB BSSP-SHF-1AA	0500898015	
R25	Res. 1.2k Ω ±5%	0201001769		CN12	Thermistor (Room Temp.)	9700801023	
R34	Res. 10k Ω ±0.5%	0201027257		CN13	Plug, PCB B2B-XH-A	0500005055	
				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 S1VB20	0000292054		SW101	Slide Switch 8SS1012-1	9701426010	
D102, 103, (D105, 106), 107	Diode 1SR35-200A	0000016018		SW102	Push Switch EVQPF04R	9700891017	
D104	Diode RD16EB1	0000296014		F101	Fuse 3.15A - 250V	0600222512	
R101	Res. Carbon 1/4W 1k Ω ±5%	0201038758			Fuse Holder SN-5057	9700116011	
R102	Res. Carbon 1/4W 10k Ω ±5%	0201005019		CN101	Plug, PCB 53405-0210	0500940011	
(CR101, 102)	Network RPEL-121204	9701125012		CN102	Plug, PCB B2B-XH-A	0500005055	
C101	Cap. Plastic 400V 1.3 μ F	0300939048		CN103	Plug, PCB B2P3-VH-B	0500011728	
C102, 103	Cap. Plastic 0.1 μ F	0300304075		CN105	Plug, PCB B3P5-VH-B	0500011735	
C104	Cap. Elec. 50V 2200 μ F	0301190981		CN106	Plug, PCB B2P-VH-B	0500011124	
C105, 111	Cap. Elec. 25V 10 μ F	0300007341		CN107	Wire w/Connector L=180	9701052011	
C107, 108	Cap. Ceramic 0.1 μ F	0300988251		JM101~103	Wire 0.6mm dia. L=10mm	9700025016	
C109, 110	Cap. Ceramic 4700pF	0300209110		JM105, (106)	Wire 0.6mm dia. L=15mm	9700672012	
VA101, 102	Varistor ERZ-V10V471CS	0000515139		W101	Wire w/Terminal L=190 BLK	9701169191	
SSR101	Relay G3M-202PL-UTU	9701375011		(W102)	Wire w/Terminal L=230 BLU	9701169016	
K101	Relay G4A-1A-PS	9701024018		(W103)	Wire w/Terminal L=220 RED	9701170012	
(K102, 103)	Relay G5S-1	9701925018		E	Wire w/Terminal L=250 GRN	9701150014	

INDICATOR PCB ASSEMBLY (Ref. No. 385)

Ref. No.	Description	Part No.	Ord. Q' ty	Ref. No.	Description	Part No.	Ord. Q' ty
X201	Remote control Amplifier SBX1610-22	0100417050		C201	Lamp Cover-A	9303702000	
D201	Diode SLR-34LR RED	0000727013		C202	Cap. Ceramic 0.1 μ F	0300988251	
D202	Diode SLR-342MG GRN	0000727167			Cap. Elec. 25V 10 μ F	0300001059	
CN201	Wire w/Connector L=250	9700923015					

INDOOR UNIT ACCESSORIES

Name and Shape	ASY17ASE-W	ASY17RSB-W
Wall hook bracket 	9304093008	9304093008
Wall cap 	313714296205	313714296205
Remote control unit 	9356602029 (AR-AB9)	9356602036 (AR-AB10)
Battery (penlight) 	313187358304	313187358304
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
Spacer 		
Remote control unit holder case 	9305642014	9305642014
Cloth tape 	9304232001	9304232001
Seal-A 	9304536000	9304536000

OUTDOOR UNIT ACCESSORIES

Name and shape	AOY17ABA	AOY17RBA
Hexagon wrench 	9351228019	9351228019
Drain pipe 	—	313728031005
Flexible tube 	—	313013042915
Drain cap 	—	313166024302

