



**SPLIT TYPE AIR
CONDITIONER (50Hz)
DUCT type**

**SERVICE
MANUAL**

Models	Indoor unit	Outdoor unit
	ARG25ALA	AOG25AZAL
	ARG25RLA	AOG25RZAL

C O N T E N T S

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SPECIFICATIONS

INDOOR UNIT	ARG25ALA	ARG25RLA
OUTDOOR UNIT	AOG25AZAL	AOG25RZAL
COOLING CAPACITY (kW)	7.00 - 7.10	6.95 - 7.05
HEATING CAPACITY (kW)	—	7.60 - 7.85

ELECTRICAL SPECIFICATIONS

POWER SUPPLY (V)	220 - 240	
FREQUENCY (Hz)	50	
RUNNING CURRENT (A)	COOLING	12.8 - 13.2
	HEATING	—
INPUT (kW)	COOLING	2.64 - 2.77
	HEATING	—
EER (kW/kW)	COOLING	2.65 - 2.56
	HEATING	—
MOISTURE REMOVAL (l/hr)	2.5	
AIR CIRCULATION-HI (m ³ /hr)	1,100	

COMPRESSOR

TYPE	Hermetic type, Permanent split condenser, 2 pole, Single phase, Induction motor
CODE	AWG5532EXC

FAN MOTOR	ARG25ALA	ARG25RLA	AOG25AZAL	AOG25RZAL
TYPE	MFA-25CT	MFB-252T	MFB-252T	MFB-252TB
POWER SUPPLY (V)	220 - 240			
HI-SPEED (r.p.m.)	890	—	740	—
MED-SPEED (r.p.m.)	820	—	—	—
LO-SPEED (r.p.m.)	745	—	—	510

DIMENSIONS

HEIGHT (mm)	270	643
WIDTH (mm)	1,210	840
DEPTH (mm)	700	336

WEIGHT

GROSS WEIGHT (kg)	58	76
NET WEIGHT (kg)	43	68

REFRIGERANT CHARGING

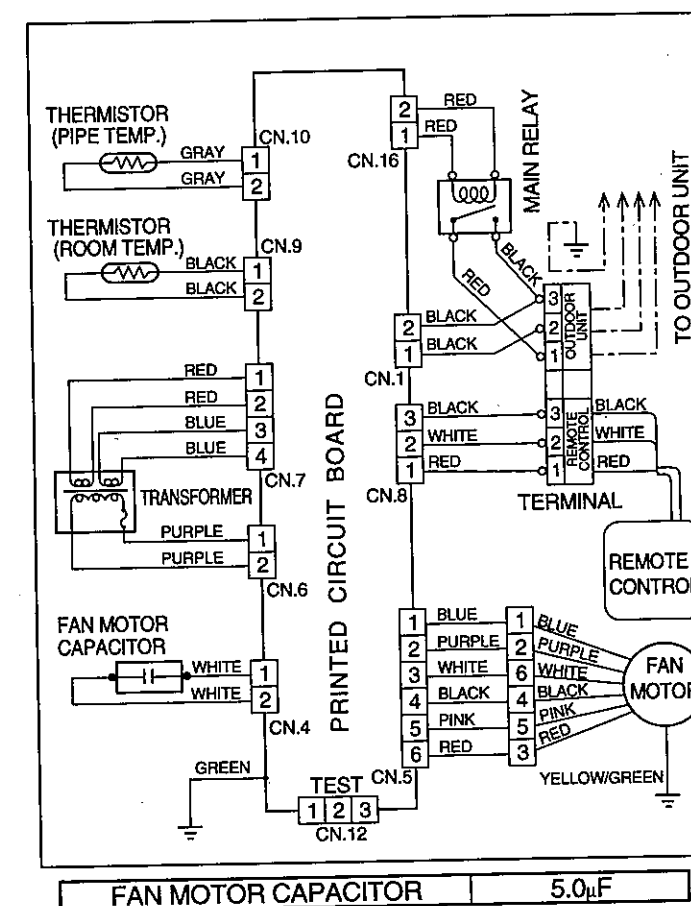
PIPE LENGTH		5 m (16 ft)	10 m (33 ft)	15 m (49 ft)	20 m (66 ft)	25 m (82 ft)
FULL CHARGE AMOUNT	ARG25ALA	1,950g(68.8 oz.)	2,010g(70.9 oz.)	2,070g(73.0 oz.)	2,130g(75.1 oz.)	2,190g(77.2 oz.)
	ARG25RLA	2,070g(73.0 oz.)	2,320g(81.8 oz.)	2,570g(90.7 oz.)	2,820g(99.5 oz.)	3,070g(108.3 oz.)

Note : - Between 5 m and 25 m, when using a connection pipe other than that in the table, charge additional refrigerant with 12 g(0.42 oz.)/1 m(3.3 ft) for ARG25ALA, 50 g(1.76 oz.)/1 m(3.3 ft) for ARG25RLA as the criteria.
 - The above list shows values at the external static pressure of 10 mm Aq.(98 Pa).

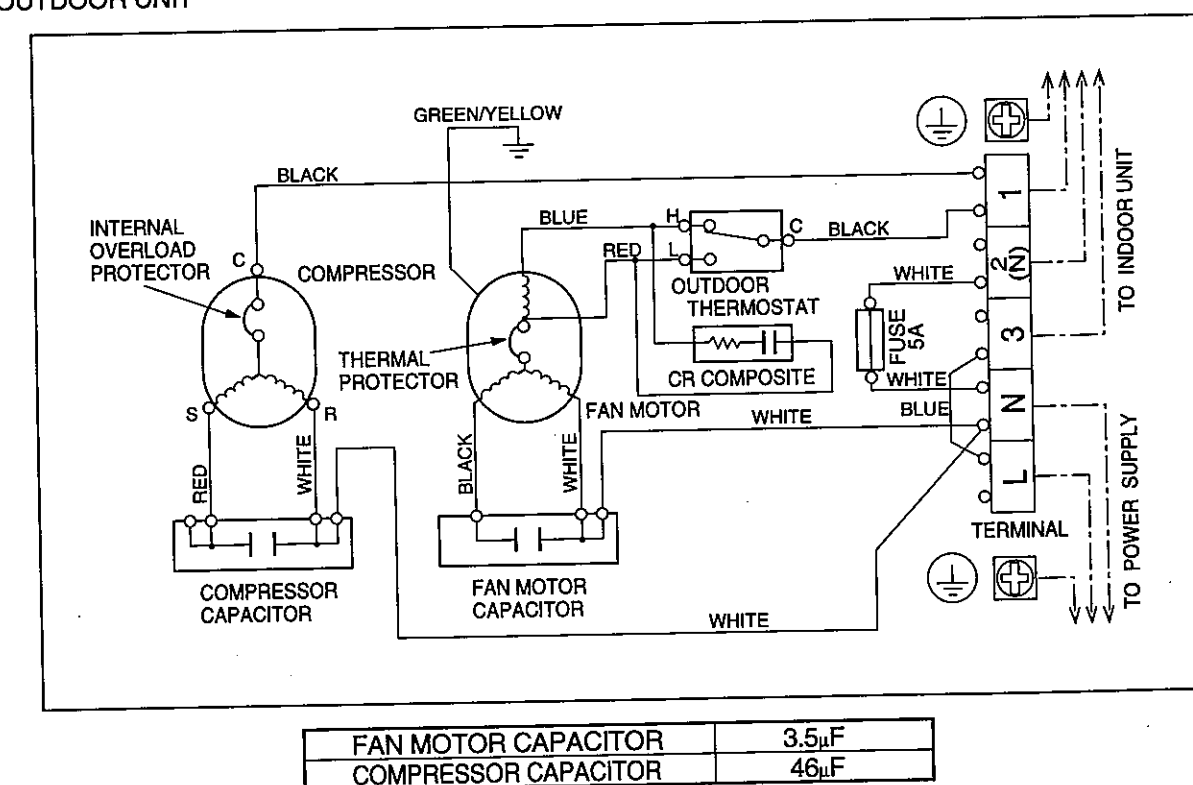
CIRCUIT DIAGRAM

Models : ARG25ALA/AOG25AZAL

INDOOR UNIT

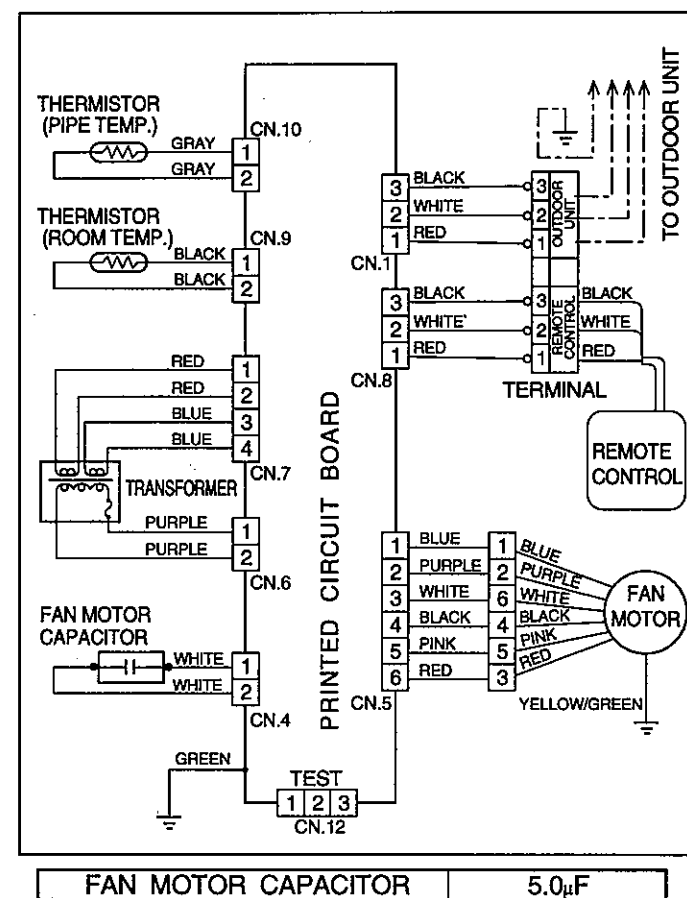


OUTDOOR UNIT

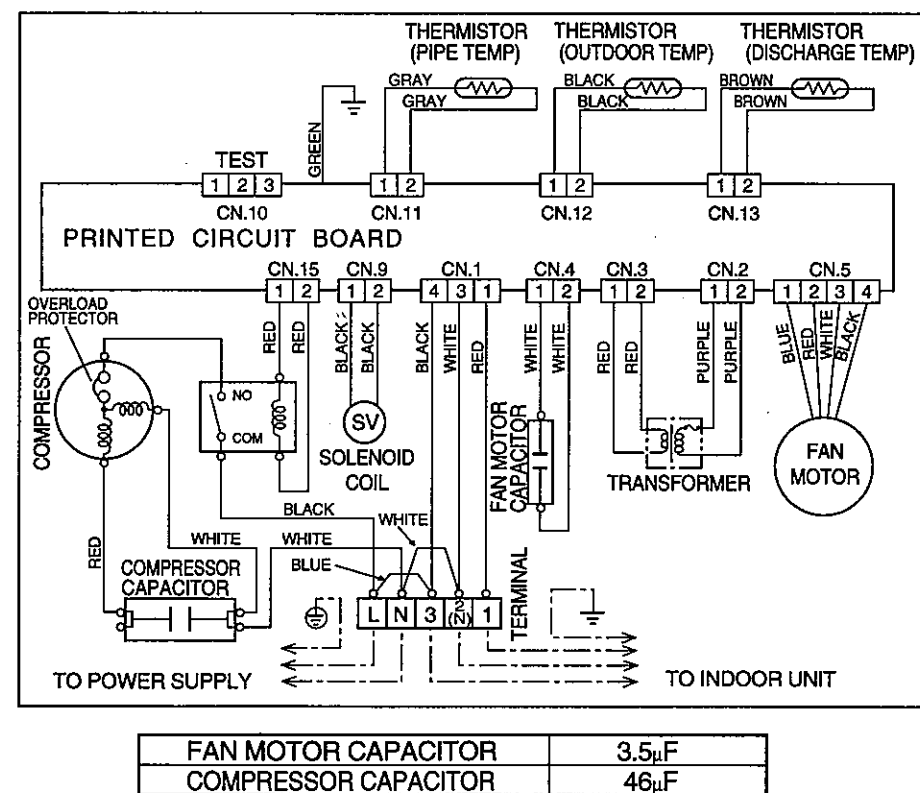


Models : ARG25RLA/ARG25RZAL

INDOOR UNIT

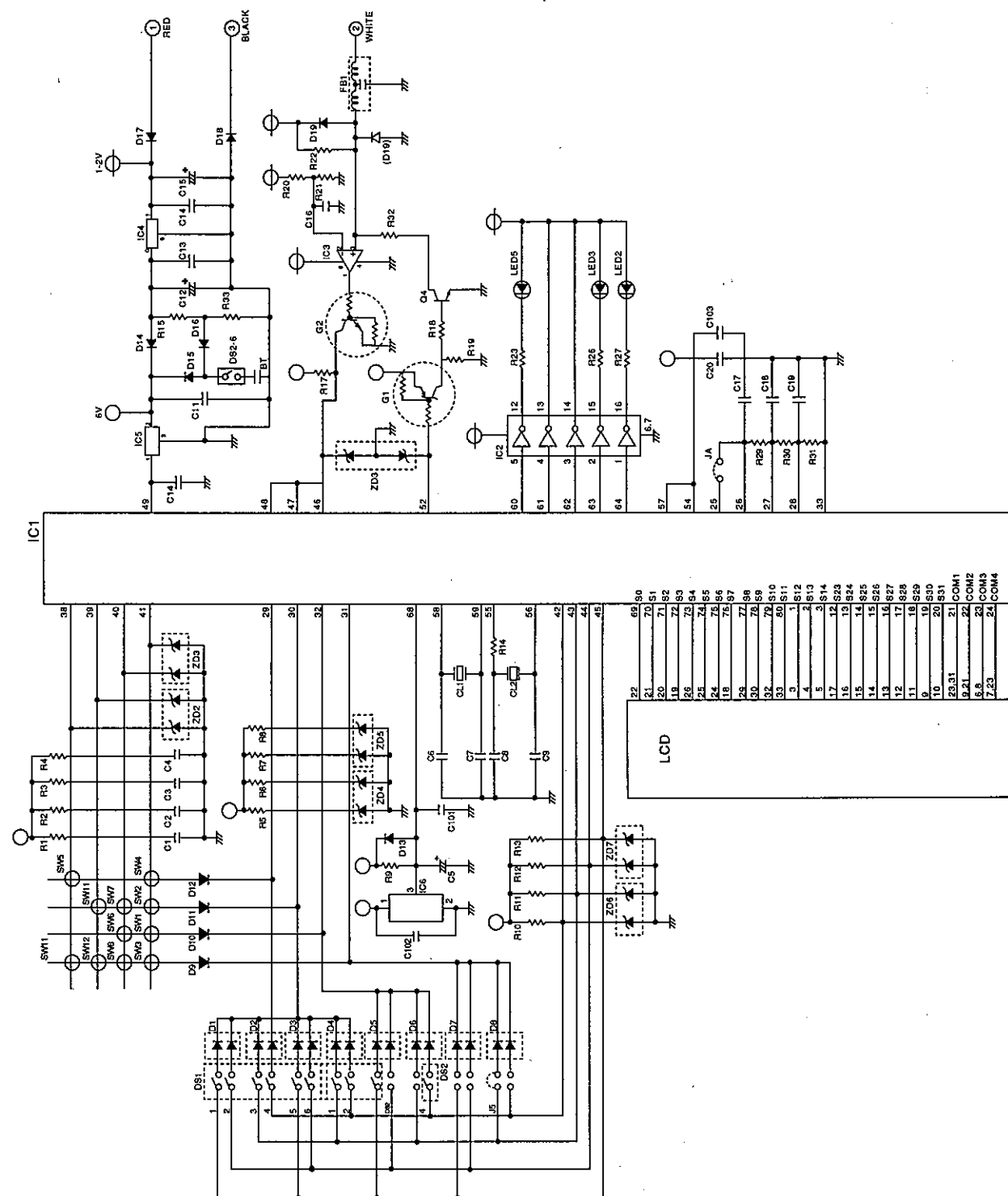


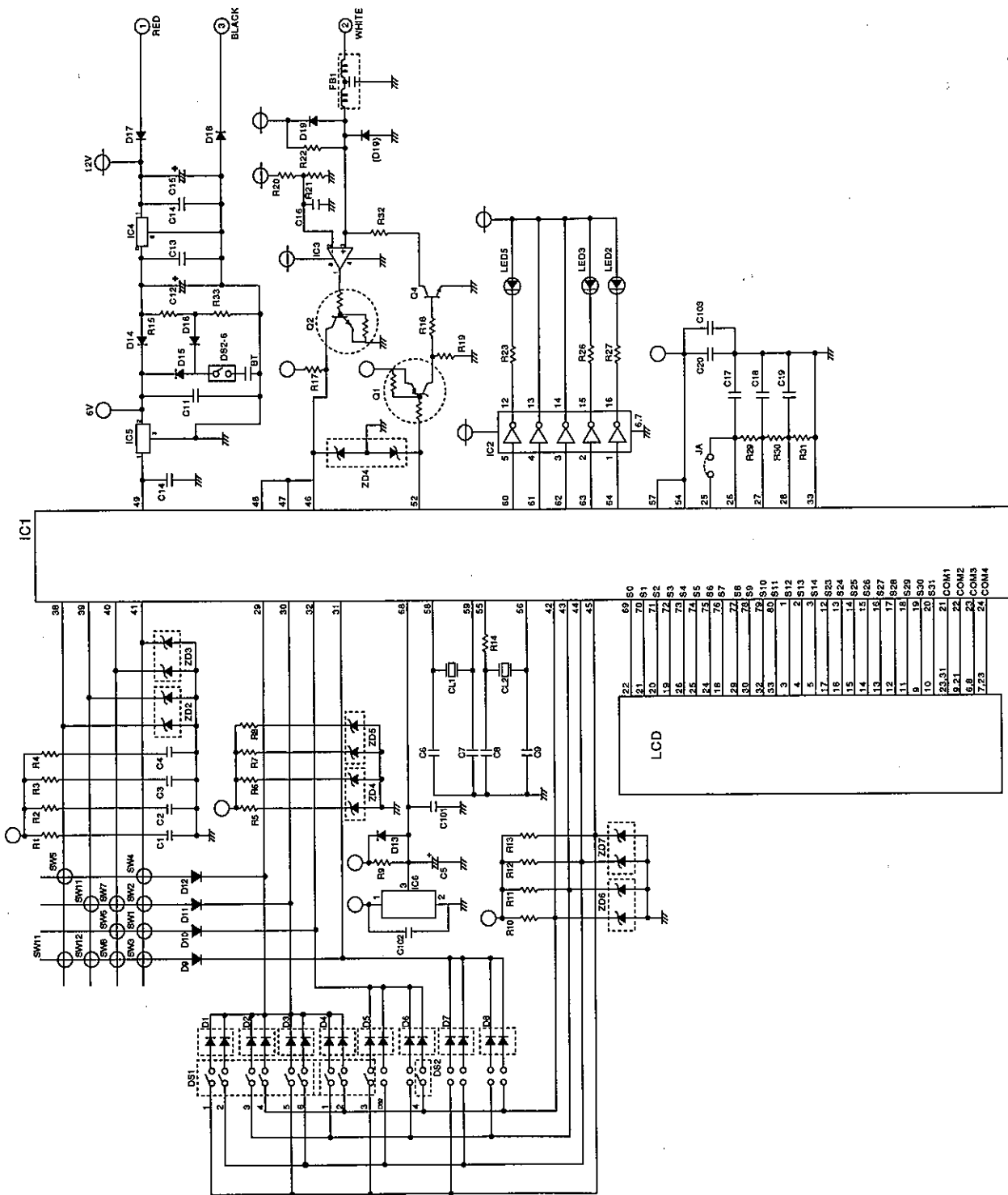
OUTDOOR UNIT



REMOTE CONTROLLER CIRCUIT DIAGRAM

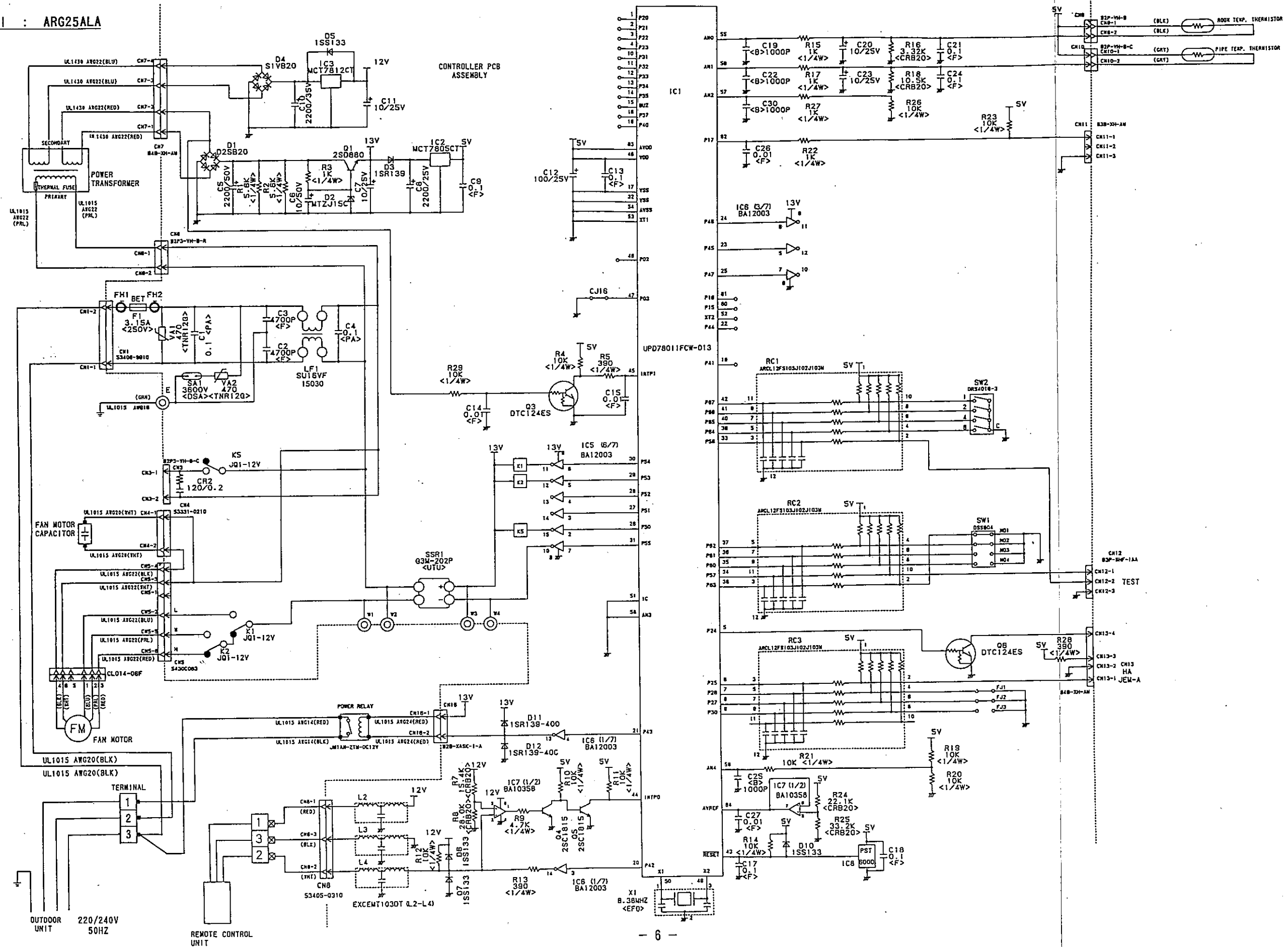
Model : ARG25ALA





INDOOR PRINTED CIRCUIT BOARD CIRCUIT DIAGRAM

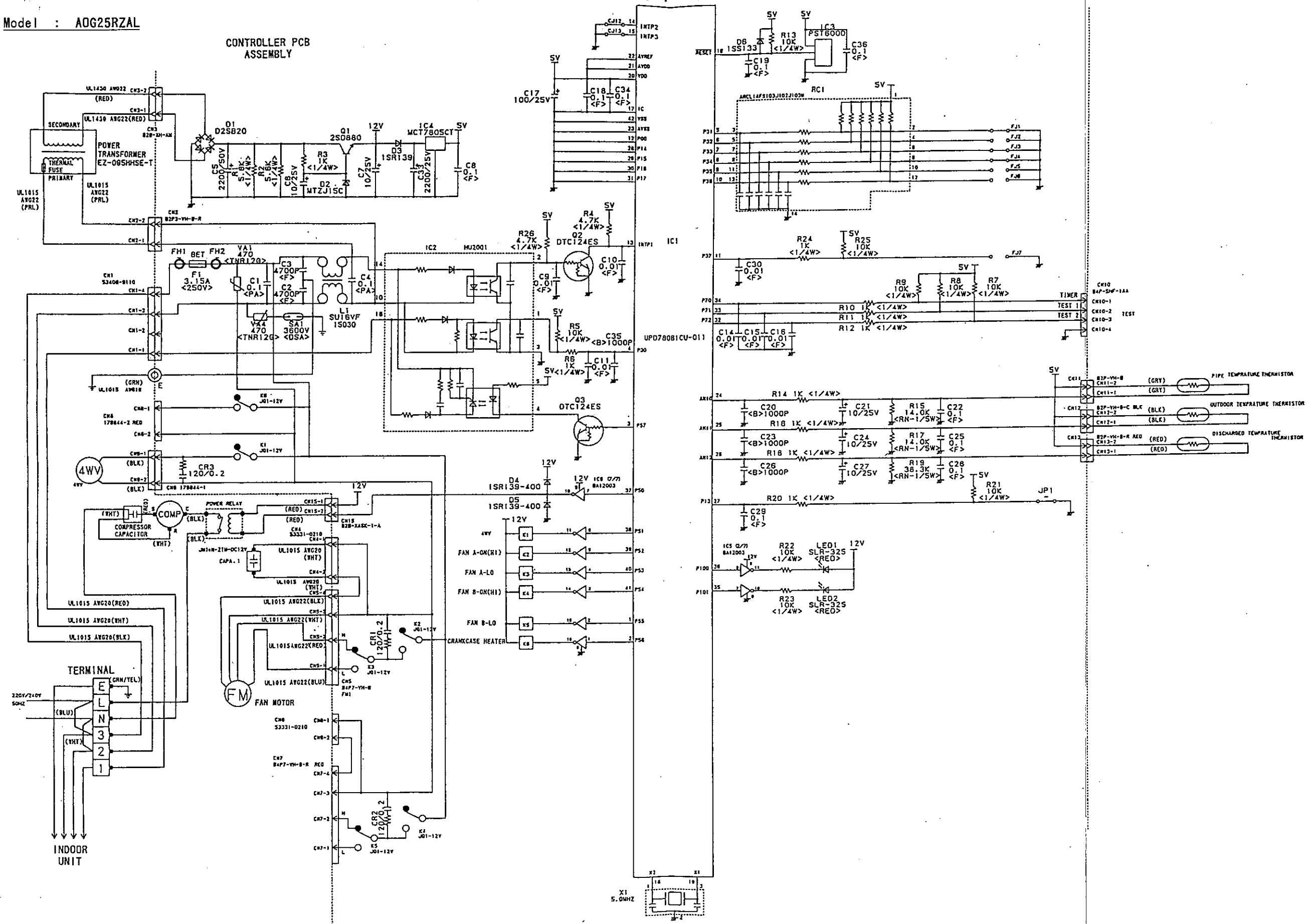
Model : ARG25ALA



Model : ARG25RLA

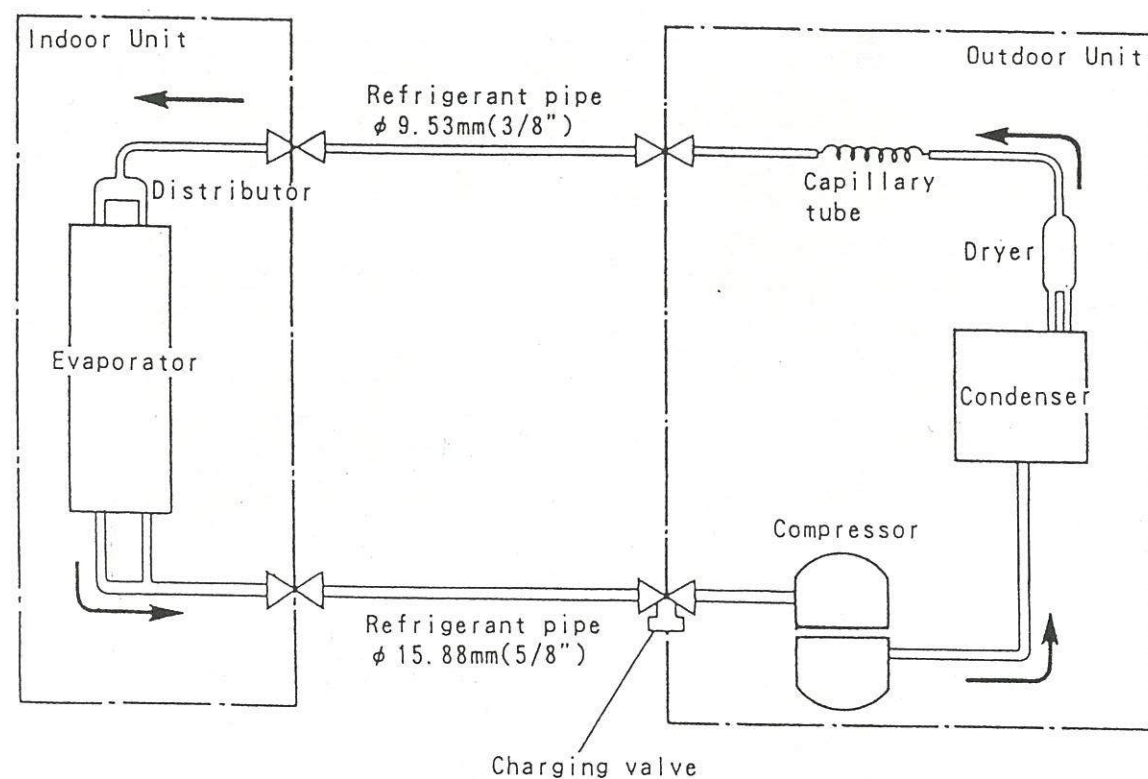


Model : AOG25RZAL

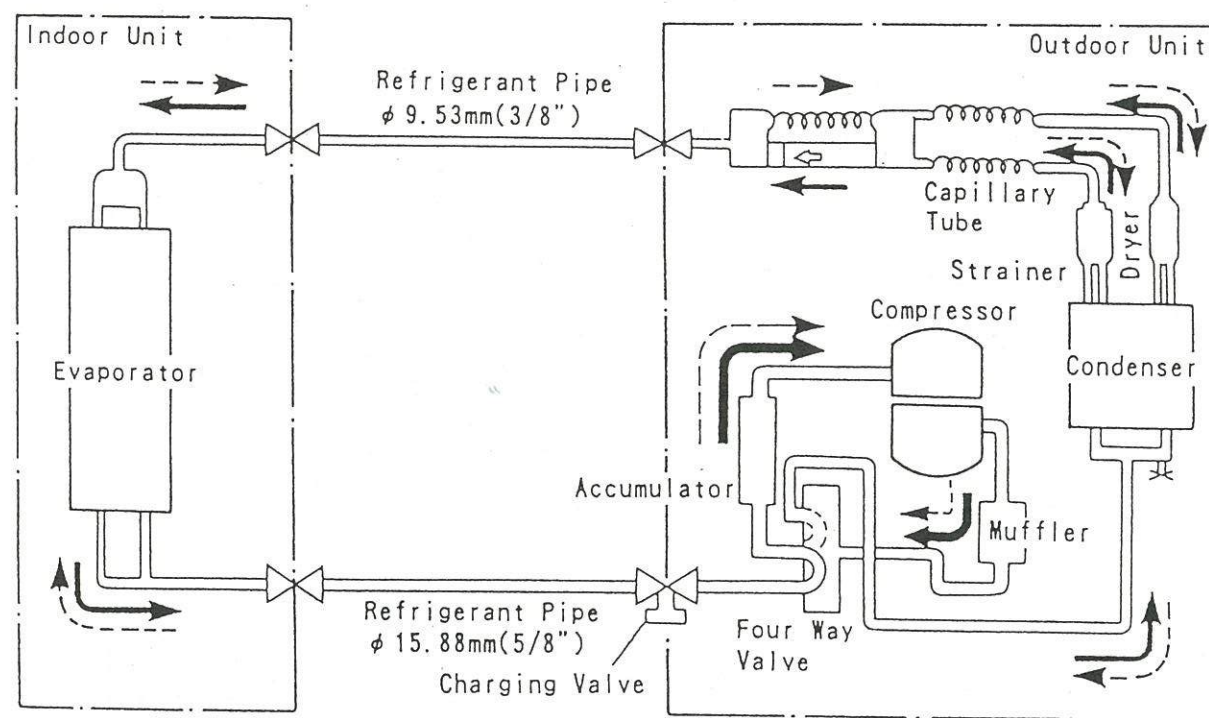


REFRIGERANT SYSTEM DIAGRAM

Models : ARG25ALA/AOG25AZAL



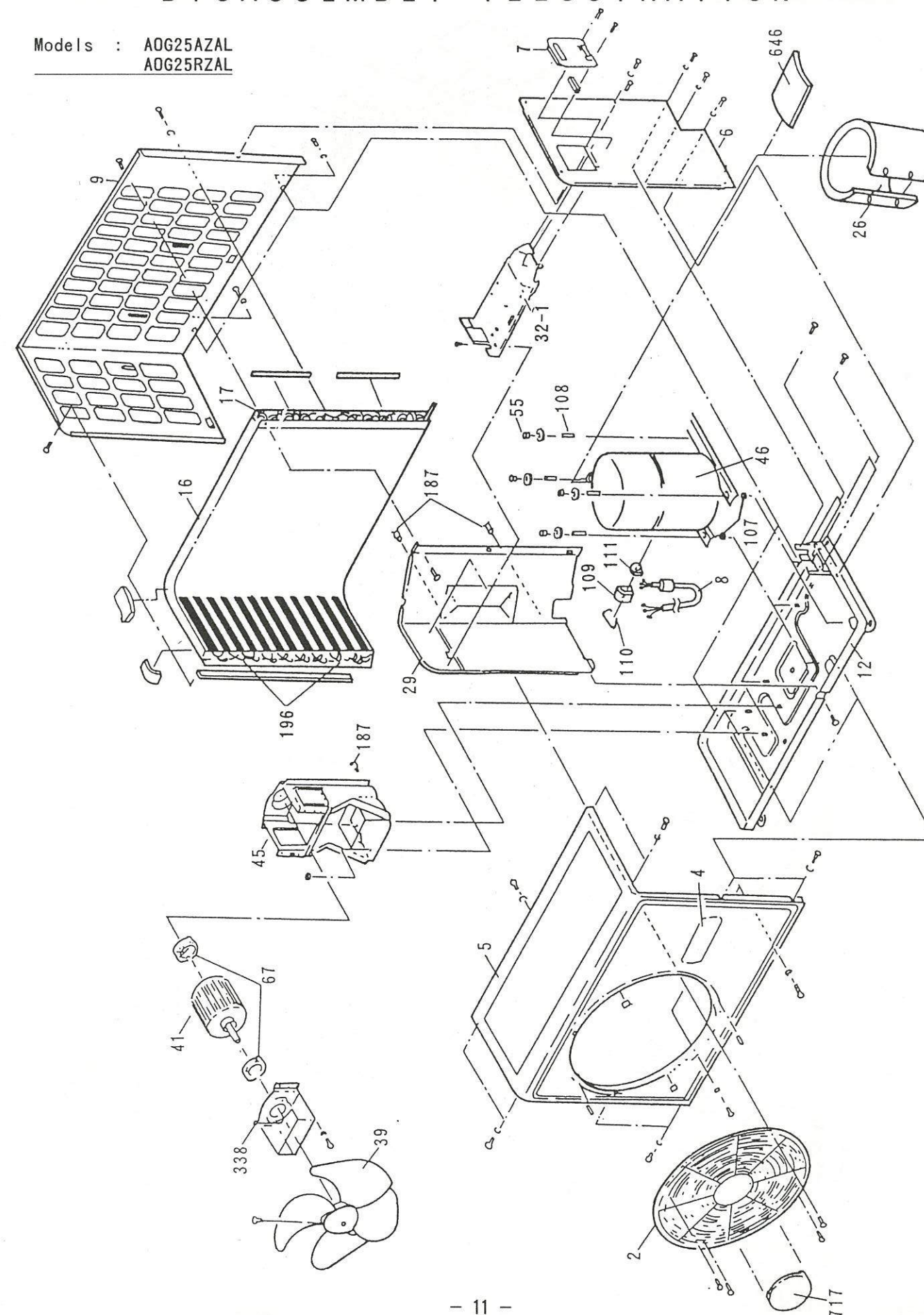
Models : ARG25RLA/AOG25RZAL

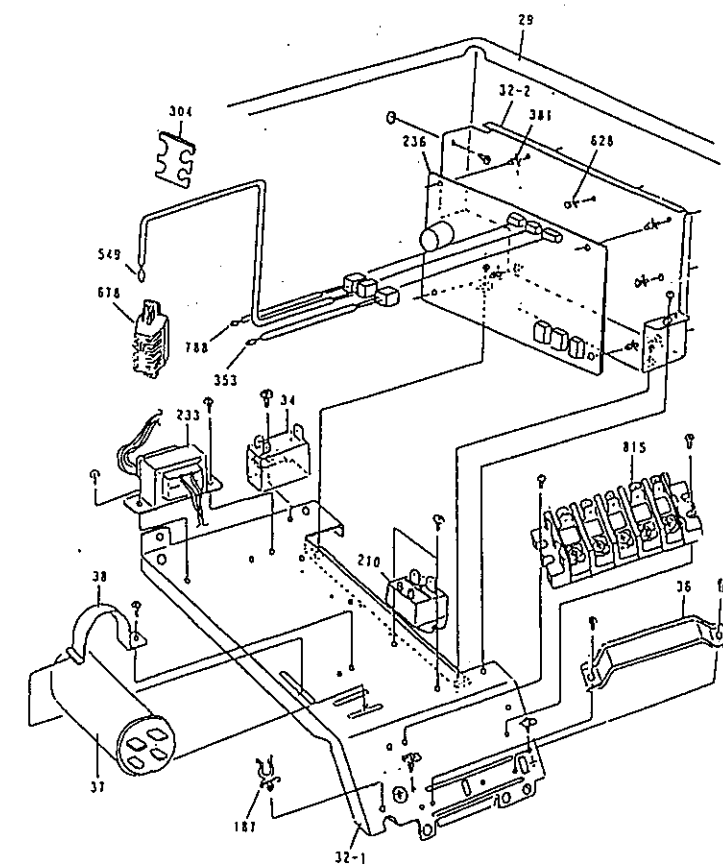
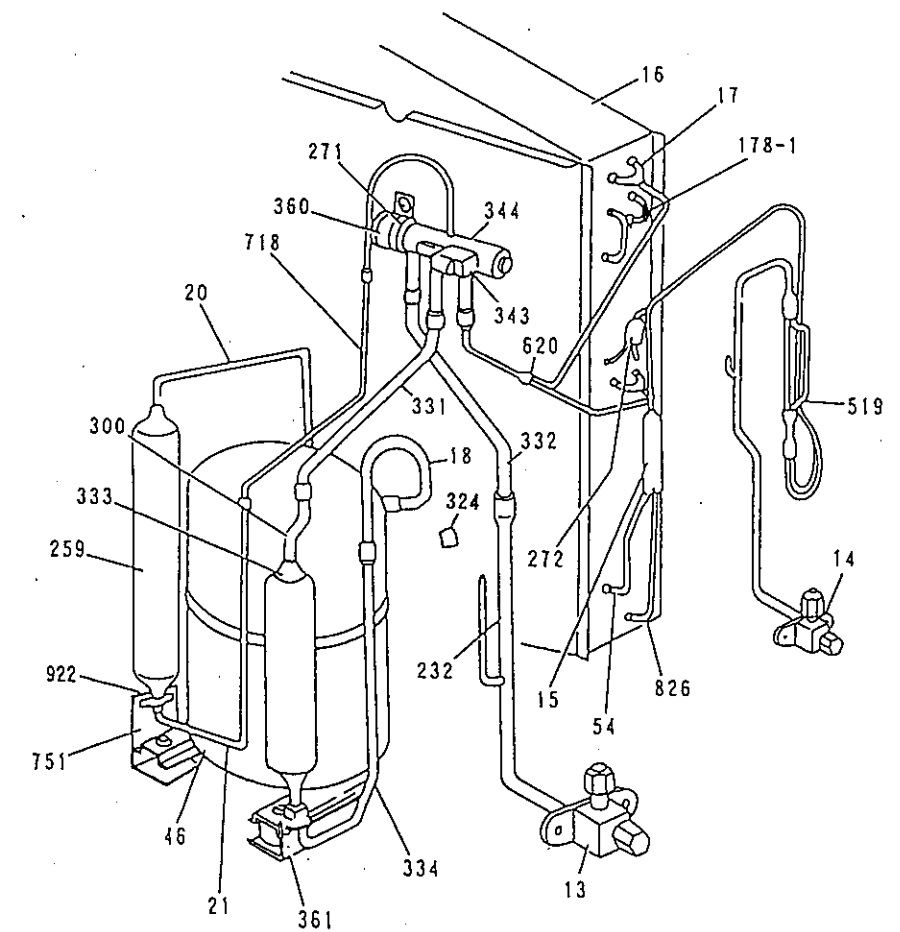
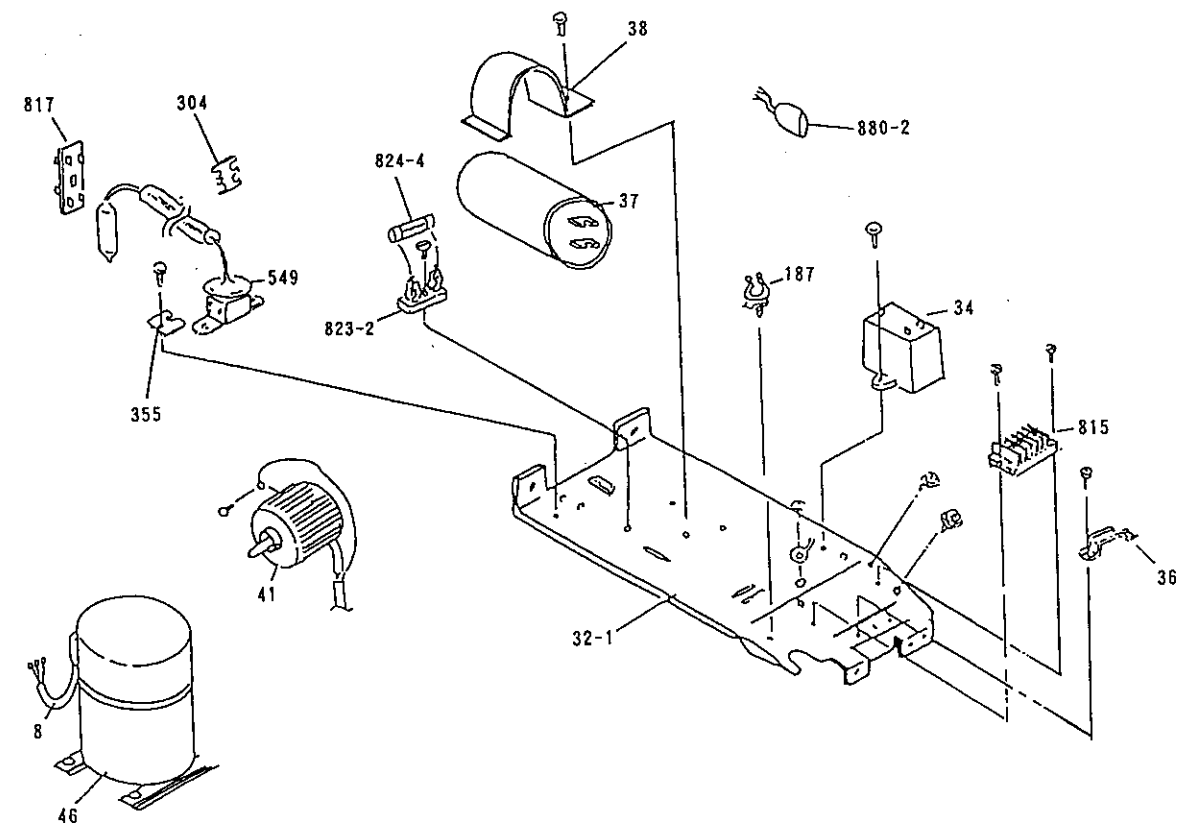
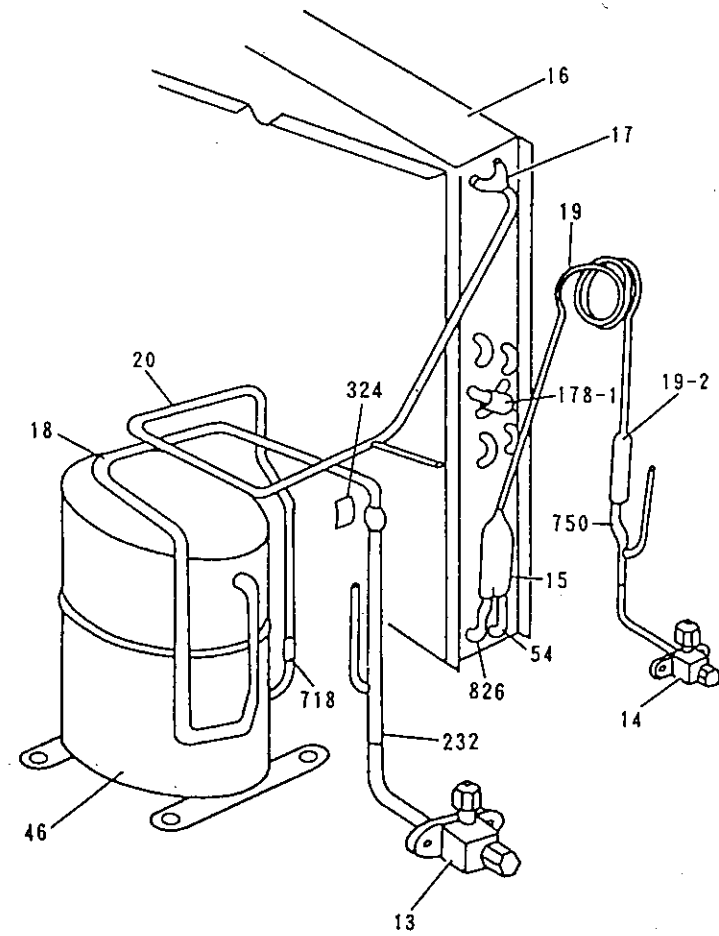


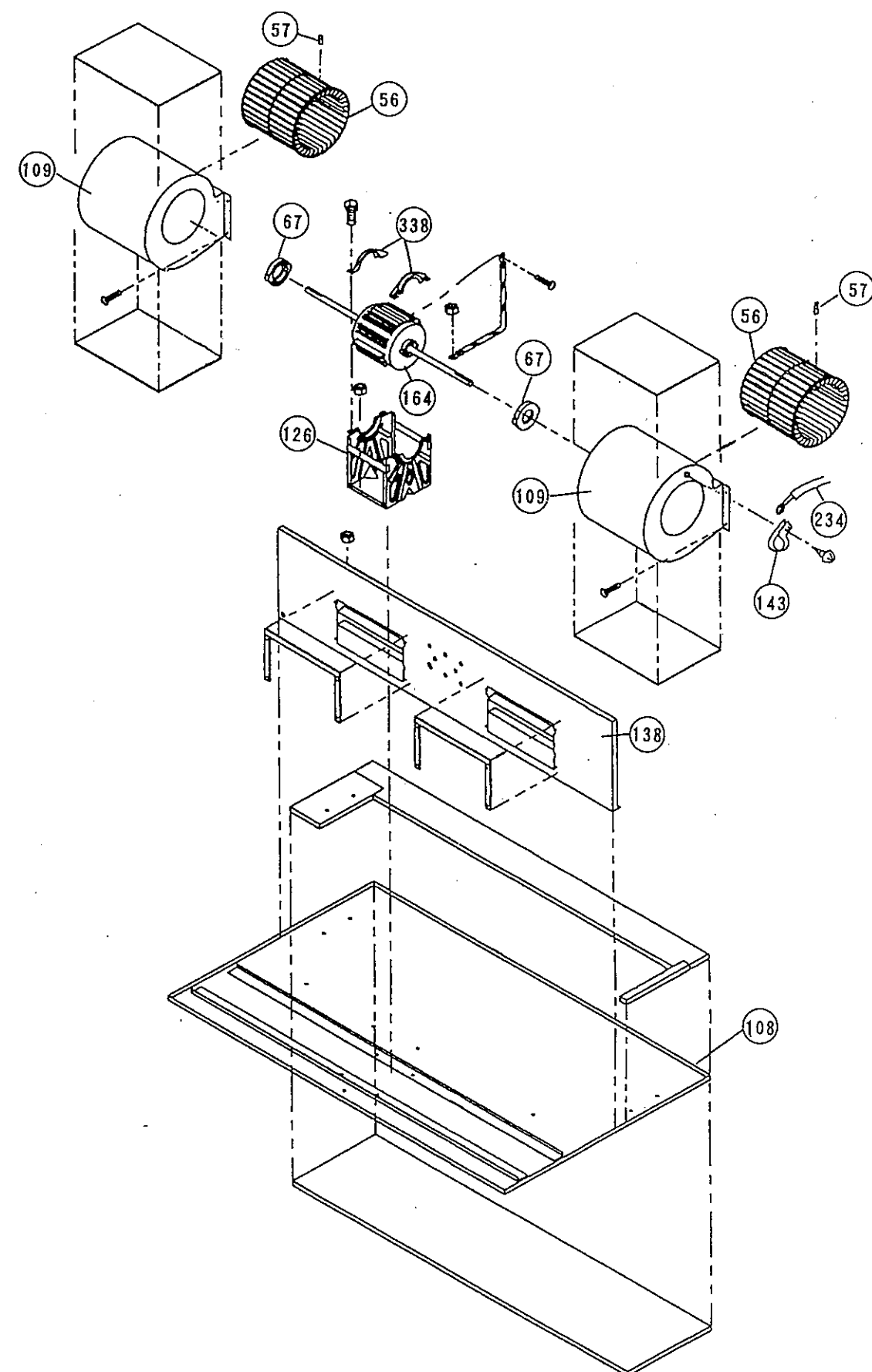
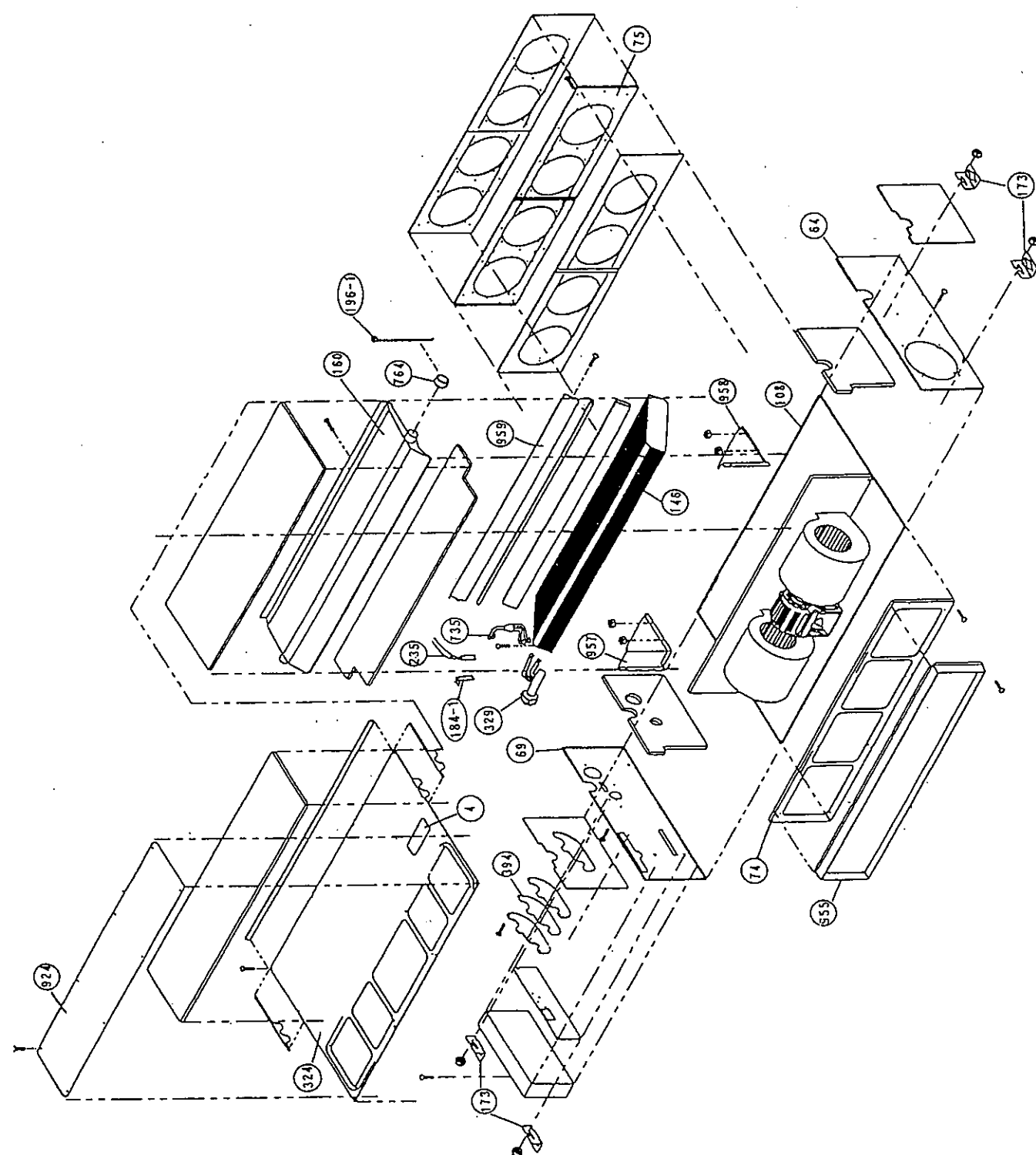
→ Cooling
 - - - - - Heating
 ⊗ : Flare Coupling
 ⇨ Check Valve

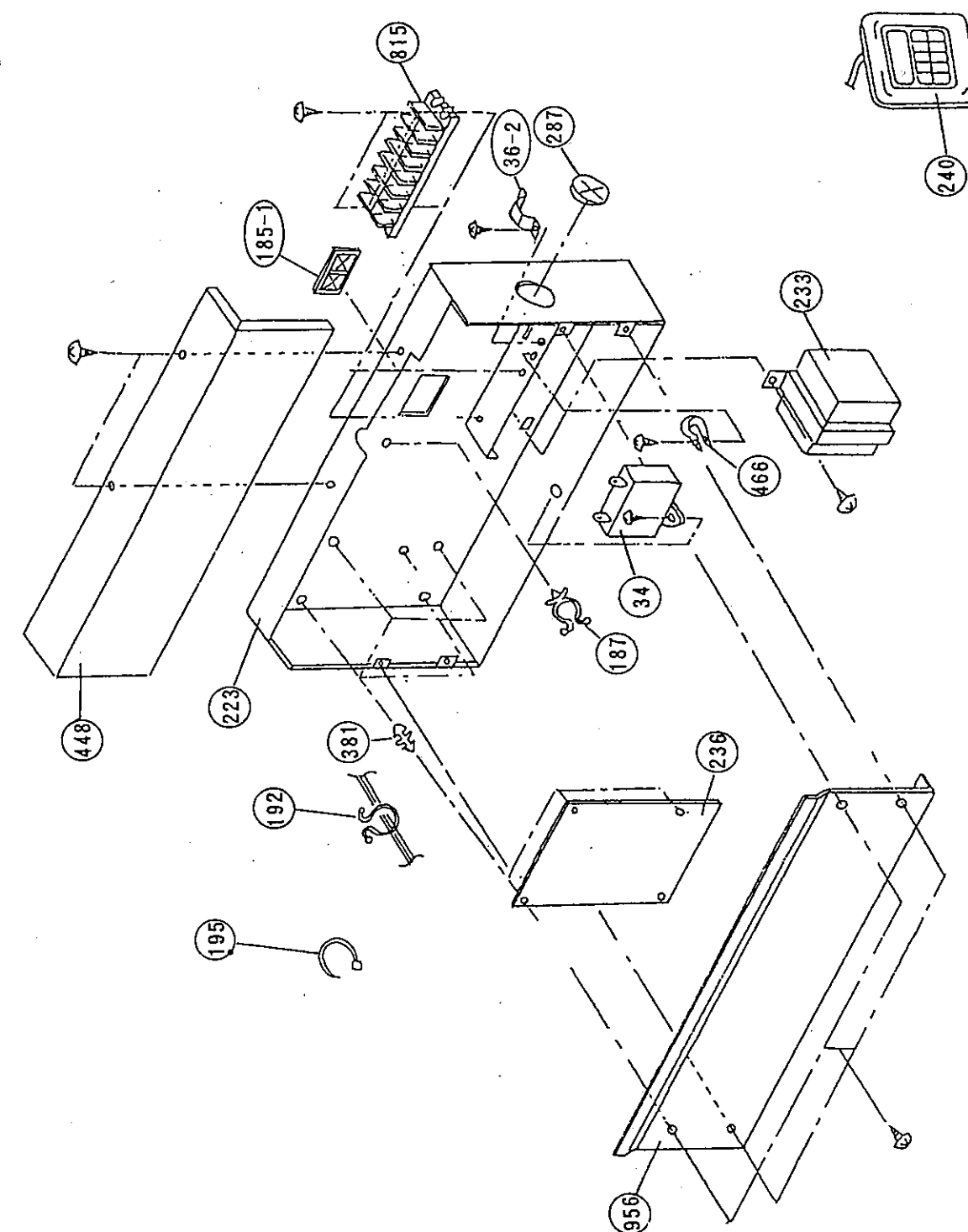
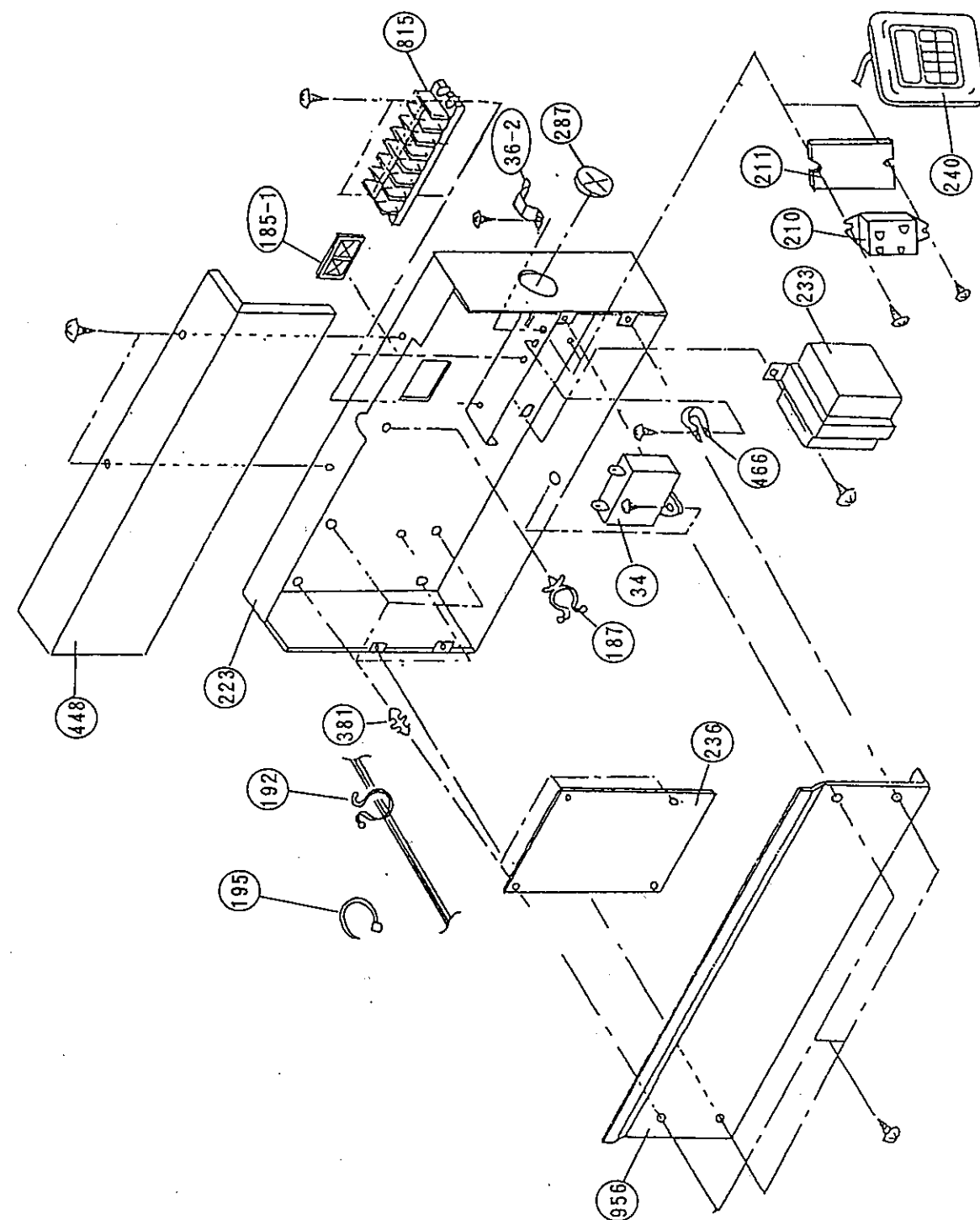
DISASSEMBLY ILLUSTRATION

Models : AOG25AZAL
AOG25RZAL









PARTS LIST

INDOOR UNIT

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.		Order Q'ty	Ref. No.	Description	Part No.		Order Q'ty
		ARG25ALA	ARG25RLA				ARG25ALA	ARG25RLA	
4	Emblem-Rear	313698088313	313698088313		210	Main Relay	9356781007	—	
34	Capacitor (Fan Motor)	9700467083	9700467083		211	Cushion Rubber	313806328306	—	
36-2	Cord Holder Metal	9356362008	9356362008		223	Control Box Metal Assy	9356558005	9356558005	
56	Sirocco Fan Assy	9356531022	9356531022		233	Power Transformer	9701678013	9701678013	
57	Hex. Socket Screw	313616213202	313616213202		234	Thermistor Assy	9302745008	9302745008	
64	Cabinet-Left Metal	9356551006	9356551006		235	Thermistor Assy-Pipe	9701329076	9701329076	
67	Rubber (Vibration-proof)	313659068604	313659068604		236	Controller PCB Assy	9701705023	9701594061	
69	Cabinet-Right Metal	9356547009	9356547009		240	Remote Control Unit	9701673032	9701673025	
74	Intake Panel	9356537000	9356537000		287	Cap (Power)	9352173011	9352173011	
75	Outlet Panel Assy	9356538007	9356538007		324	Top Plate	9356546002	9356546002	
108	Base Assy	9356518009	9356518009		329	Coupling Pipe Assy	9357876009	9357876009	
109	Casing Assy	9356527001	9356527001		338	Motor Fixture	9356536003	9356536003	
126	Motor Fixing Table Assy	9356533002	9356533002		381	Locking Spacer	313209391506	313209391506	
138	Separate Wall	9356523003	9356523003		394	Pipe Fixing Plate	9356554007	9356554007	
143	Clamp NK-3M	313361274700	313361274700		448	Control Box Metal-B	9356560008	9356560008	
146	Evaporator Assy	9357889016	9357889016		468	Clamp NK-4M	313714328805	313714328805	
160	Drain Pan Assy	9356542028	9356542028		735	Distributor Assy	9357875002	9357875002	
164	Fan Motor Assy	9600434031	9600434031		764	Drain Cap	9356541007	9356541007	
173	Hanger Bracket	9356563009	9356563009		815	Terminal-7P	9358660102	9358660102	
184-1	Thermo. Spring-A	313728262708	313728262708		924	Intake Seal Plate	9356553000	9356553000	
185-1	Rubber Bushing	9357376004	9357376004		955	Square Flange Assy	9356555004	9356555004	
187	Clamp No. 1219	313361271706	313361271706		956	Control Box Metal-E	9356900002	9356900002	
192	Clamp No. 062	313361271402	313361271402		957	Eva. Fixing Plate-R	9356521009	9356521009	
195	Clamp SKB-100	313361275805	313361275805		958	Eva. Fixing Plate-L	9356522006	9356522006	
196-1	Clamp SKB-3M	312300787605	312300787605		959	Eva. Seal Plate	9356540000	9356540000	

OUTDOOR UNIT

Ref. No.	Description	Part No.		Order Q'ty	Ref. No.	Description	Part No.		Order Q'ty
		AOG25AZAL	AOG25RZAL				AOG25AZAL	AOG25RZAL	
2	Fan Cover	9350214020	9350214020		232	Pipe Assy	9300990028	9300990028	
4	Emblem-Rear	313791088308	313791088308		233	Power Transformer	—	9701549016	
5	Cabinet-A, Painted	9303876015	9303876015		236	Controller PCB Assy	—	9701936014	
6	Cabinet-C, Painted	9353549013	9353549013		259	Muffler	—	9350605002	
7	Connector Cover	9358011010	9358011010		271	4-Way Valve Rubber	—	313728251908	
8	Wire Assy (Shield)-D	9350215027	9350215027		272	Strainer	—	9300590020	
9	Cabinet-B, Painted	9303874011	9303874011		300	Suction Pipe-C	—	313986157307	
12	Base Assy, Painted	9353452016	9353452016		304	Thermostat Fixture-B	313349051500	313349051500	
13	3-Way Valve Assy	9357963013	9357963013		324	Muffler Cushion-B	313584295407	313584295407	
14	2-Way Valve Assy	9357964010	9357964010		331	Suction Pipe-D	—	313986353502	
15	Dryer	9355465007	9300589024		332	Suction Pipe-E	—	9350600007	
16	Condenser Assy	9353455017	9353455024		333	Accumulator	—	313986117201	
17	"U" Pipe-Y	313728127102	313728127102		334	Suction Pipe-B	—	9350599004	
18	Suction Pipe	9355617000	9350598007		338	Motor Fixture	313029297108	313029297108	
19	Capillary Tube	9355464000	—		343	Solenoid Coil	—	9359616108	
19-2	Joint Pipe	9354268005	—		344	4-Way Valve	—	9300604017	
20	Discharge Pipe	9360636003	9350601004		353	Thermistor Assy-Pipe	—	9701330010	
21	Discharge Pipe-B	—	9350602001		355	Switch Bracket	313986353607	—	
26	Compressor Cover	9354036000	9354036000		360	4-Way Valve Band	—	313986251802	
29	Separate Wall	313986033213	9302475011		361	Accumulator Support Assy	—	313986353804	
32-1	Control Box Metal-A	9353595003	9357137001		381	Locking Spacer	—	313209391506	
32-2	Control Box Metal-B	—	9357138008		519	Check Valve Assy	—	9353468017	
34	Capacitor (Fan Motor)	9357965024	9357965024		549	Thermostat Assy -Outer	9352553004	9357328027	
36	Cord Holder Metal	9356934007	9356934007		620	Inlet Pipe (Cond.) Assy	—	9300559010	
37	Running Capacitor	9357211015	9357211015		628	Locking Spacer-B	—	313005446558	
38	Capacitor Clamp	313791061807	313791061807		646	Compressor Cover-B	313986355101	313986355101	
39	Propeller Fan Assy	9300855013	9300855013		678	Bracket (Thermistor)	—	313557406106	
41	Fan Motor Assy-Outer	9351333041	9351333119		717	Center Plate	9350216017	9350216017	
45	Motor Fixing Table Assy	313029311100	313029311100		718	Discharge Pipe-C	—	9350603008	
46	Compressor Assy	9360509017	9360509017		750	Pipe-A Assy	9301003017	—	
54	Condensing Pipe	9300557016	9300557016		751	Bracket (Muffler) Assy	—	9350612000	
55	Special Nut M8 (For Comp.)	313252257701	313252257701		788	Thermostat-Discharge	—	9358337011	
67	Rubber (Vibration-proof)	313659068604	313659068604		815	Terminal-5P	9356497021	9356497021	
107	Rubber Seat-A (For Comp.)	313093081402	313093081402		817	Thermostat Fixture	9352164019	—	
108	Sleeve-A (For Comp.)	313093081706	313093081706		823-2	Fuse Holder	0500063024	—	
109	Terminal Cover (For Comp.)	313202059600	313202059600		824-4	Fuse	0600222529	—	
110	Lock Wire	313202059706	313202059706		826	Condensing Pipe-B	9300558013	9300558013	
111	Terminal Packing(For Comp.)	313202059807	313202059807		880-2	Network	9701020010	—	
178-1	Capillary Holder Rubber	313414274807	313414274807		922	Muffler Rubber	—	9354014008	
187	Clamp No. 1219	313361271706	313361271706						
196	Clamp SKB-150	313035356905	313035356905						
210	Main Relay	—	9356781007						

[INDOOR P.C.B.]
 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 μ PD78011FCW-013	9701722013		C10	Cap. Elec. 35V 2200 μ F	0300915042	
IC2	IC MCT7805CT	0100649215		C12	Cap. Elec. 25V 100 μ F	0300051375	
IC3	IC MCT7812CT	0100649222		C14, 15, 26, 27	Cap. Ceramic 50V 0.01 μ F	0300013113	
IC4	IC H12002 (ARG24RLA)	9701384020		C19, 22, 25, 30	Cap. Ceramic 50V 1000pF	0300011096	
IC5, 6	IC BA12003	0101650012		F1	Fuse 3.15A - 250V	0600222512	
IC7	IC BA10358	0101854014		FH1, 2	Fuse Holder PFC5000-0502	0500158072	
IC8	IC PST600D-2-TP	0101461113		SA1	Varistor TNR12G471K	0600038010	
RC1-3	RC Module ARCL12FS	0200301013		SSR1	Arrester DSA-362MA-05	0600168032	
Q1	Xstr 2SD880	0000001014		LF1	EMI Filter SU16VF-15030	0400134114	
Q3, 6	Xstr DTC124ES	0000517010		SSR1	Relay GSM-202P-UTU	9701829019	
Q4, 5	Xstr 2SC1815	0000002011		K1, 2, 5	Relay JQ1-12V	9701316014	
D1	Diode D2S820	0000599023		CR2	Network RPEL-121204	9701125012	
D2	Diode MTZJ15C	0000852203		SW1	Switch, Slide DSS804	9701393015	
D3, 11, 12	Diode 1SR139-400	0000353137		SW2	Switch, Rotary DFS4016-3	9701694013	
D4	Diode 1SV820	0000292054		HT1	Heat Sink PUG26-25	9701428014	
D5-7, 10	Diode 1SS133	0000572019		HT2	Heat Sink B.PLE-16	9701376018	
R1, 2	Res. Carbon 5.6k Ω $\pm$ 5%	0200994192		X1	Xtal Resonator EF06C8384T4	9701261017	
R3, 15, 17, 22, 27	Res. Carbon 1k Ω $\pm$ 5%	0200994017		L2-4	EMI Filter EXCEMT103DT	0400406396	
R4, 10-12, 14, 19-21, 23, 26, 29	Res. Carbon 10k Ω $\pm$ 5%	0200994253		ON1	Plug, PCB 53406-9910 (ARG24ALA)	0500951048	
R5, 13, 28	Res. Carbon 390 Ω $\pm$ 5%	0200993874		ON1	Plug, PCB 53406-9210 (ARG24RLA)	0500951062	
R7	Res. Metal 15.4k Ω $\pm$ 1%	0201028759		ON3	Plug, PCB B2P3-VH-B-C	0500011773	
R8	Res. Metal 28.0k Ω $\pm$ 1%	0201028742		ON4	Plug, PCB 53331-0210	0501033019	
R9	Res. Carbon 4.7k Ω $\pm$ 5%	0200994178		ON5	Plug, PCB 5430C063	0500957026	
R16	Res. Metal 3.32k Ω $\pm$ 1%	0201028568		ON6	Plug, PCB B2P3-VH-B-R	0500011766	
R18	Res. Metal 10.5k Ω $\pm$ 1%	0201028537		ON7, 13	Plug, PCB B4B-XH-AM	0500005314	
R24	Res. Metal 22.1k Ω $\pm$ 1%	0201028513		ON8	Plug, PCB 53405-0310	0500940035	
R25	Res. Metal 33.2k Ω $\pm$ 1%	0201028544		ON9	Plug, PCB B2P-VH-B	0500011124	
C1, 4	Cap. Plastic 250V 0.1 μ F	0300984835		ON10	Plug, PCB B2P-VH-B-C	0500011568	
C2, 3	Cap. Ceramic 50V 4700pF	0300727546		ON11	Plug, PCB B3B-XH-AM	0500005338	
C5	Cap. Elec. 50V 2200 μ F	0301206026		ON12	Plug, PCB B3P-SHF-1AA	0500006021	
C6	Cap. Elec. 50V 10 μ F	0300003145		ON16	Plug, PCB B2B-XASK-1-A (ARG24ALA)	0501045012	
C7, 11, 20, 23	Cap. Elec. 25V 10 μ F	0300004258		E	Wire w/Terminal GRN L=300	9701755011	
C8	Cap. Elec. 25V 2200 μ F	0300915417					
C9, 13, 17, 18, 21, 24	Cap. Ceramic 0.1 μ F	0300988251					

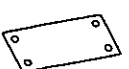
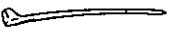
[OUTDOOR P.C.B.]
 CONTROLLER PCB ASSEMBLY (Ref. No. 236)

Ref. No.	Description	Part No.	Ord. Q' ty	Ref. No.	Description	Part No.	Ord. Q' ty
IC1	IC μ PD78081CU-011	9701721016		R15, 17	Res. Metal 14k Ω $\pm$ 1%	0201028612	
IC2	IC HJ2001	9701651016		R19	Res. Metal 38.3k Ω $\pm$ 1%	0201028520	
IC3	IC PCT600D-2-TP	0101461113		C1, 4	Cap. Plastic 250V 0.1 μ F	0300894835	
IC4	IC MCT7805CT	0100649215		C2, 3	Cap. Ceramic 50V 4700pF	0300727546	
IC5, 6	IC BA12003	0101650012		C5	Cap. Elec. 50V 2200 μ F	0301206026	
RC1	RC Module ARCL14FS	0200301020		C6, 7, 21, 24, 27	Cap. Elec. 25V 10 μ F	0300004258	
Q1	Xstr 2SD880	0000001014		C8, 18, 19, 22, 25, 28, 29, 34, 36	Cap. Ceramic 0.1 μ F	0300988251	
Q2, 3	Xstr DTC124ES	0000517010		C9-11, 14-16, 30	Cap. Ceramic 50V 0.01 μ F	0300013113	
D1	Diode D2SB20	0000599023		C17	Cap. Elec. 25V 100 μ F	0300051375	
D2	Diode MTZJ15C	0000852203					
D3-5	Diode 1SR139-400	0000353137					
D6	Diode 1SS133	0000572019					
LED1, 2	Diode SLR-325VC	0000813259					
R3, 6, 10-12, 14, 16, 18, 20, 24	Res. Carbon 1k Ω $\pm$ 5%	0200994017		C35	Cap. Elec. 25V 2200 μ F	0300915417	
R4, 26	Res. Carbon 4.7k Ω $\pm$ 5%	0200994178		C33	Fuse 3.15A - 250V	0600222512	
R5, 7-9, 13, 21-23, 25	Res. Carbon 10k Ω $\pm$ 5%	0200994253		FH1, 2	Fuse Holder PFC5000-0502	0500158072	
				SA1	Arrester DSA-362MA-05	0600168032	
				K1-6	Relay JQ1-12V	9701316014	

[OUTDOOR P.C.B.]
CONTROLLER PCB ASSEMBLY (Continued)When you order parts, please make a photocopy of this page
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Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
CR1-3	Network PEEL-121204	9701125012		CN5	Plug, PCB B4P7-VH-B	0500011742	
L1	EMI Filter SU16VF-15030	0400134114		CN7	Plug, PCB B4P7-VH-B-R	0500011797	
VA1,4	Varistor TNR12G471K	0000038010		CN8	Plug, PCB 179844-2	0501121020	
HT1	Heat Sink PUG26-25	9701428014		CN9	Plug, PCB 179844-1	0501121013	
X1	X'tal Resonator EF0EC5004T	9701261024		CN10	Plug, PCB B4P-SHF-1AA	0500006038	

INDOOR UNIT ACCESSORIES

Name and Shape	Q'ty	Application	ARG25ALA	ARG25RLA
Installation template 	1	For positioning the indoor unit	9357036007	9357036007
Hanger 	4	For suspending the indoor unit from ceiling	9356563009	9356563009
Special nut A (large flange) 	4	For suspending the indoor unit from ceiling	313005446653	313005446653
Special nut B (small flange) 	4		313005446759	313005446759
Coupler heat insulation (large) 	2	For indoor side pipe joint (large pipe)	9350716029	9350716029
Coupler heat insulation (small) 	1	For indoor side pipe joint (small pipe)	9352766015	9352766015
Nylon fastener 	1	For fixing the drain hose	312300787005	312300787005
Remote controller 	1		9701673032	9701673025
Remote controller cord clamp 	10	For installing the remote controller cord	313714181904	313714181904
Tapping screw (flush heads) 	10	For installing the remote controller cord clamp	301141153027	301141153027
Auxiliary pipe assembly 	1	For wiring conduit(gas side) connection	9356995022	9356995022
Drain hose insulation 	1	Insulates the drain hose and vinyl hose connection	313806217708	313806217708

OUTDOOR UNIT ACCESSORIES

Name and Shape	Q'ty	Application	AOG25AZAL	AOG25RZAL
Hexagon wrench 	1	For air purge	9351228019	9351228019
Pipe (drain) 	1	For outdoor unit drain piping work (May not be supplied, depending on the model)	—	313728031005
Flexible tube 	1		—	313013042915
Cap (drain) 	2		—	313166024302

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