

HIGH POWER MULTI
AIR CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL



Indoor unit	Outdoor unit
ASY9UMACW	AOY19USAM2
ASY9UMACW	AOY19UGBB2

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FUJITSU GENERAL LIMITED

SPECIFICATIONS

TYPE	COOL & HEAT, 2 ROOM MULTI			
OUTDOOR UNIT	AOY19USAM2		AOY19UGBB2	
INDOOR UNIT	ASY9UMACW	ASY9UMACW x 2	ASY9UMACW	ASY9UMACW x 2
COOLING CAPACITY	2.70 kW	5.40 kW	2.70 kW	5.40 kW
HEATING CAPACITY	3.30 kW	6.60 kW	3.25 kW	6.50 kW

ELECTRICAL DATA

POWER SOURCE		230 V 50 Hz			
RUNNING CURRENT	COOLING	4.6 A	8.7 A	4.6 A	8.7 A
	HEATING	5.1 A	9.1 A	5.1 A	9.1 A
INPUT WATTS	COOLING	1.01 kW	1.92 kW	1.01 kW	1.92 kW
	HEATING	1.14 kW	2.03 kW	1.14 kW	2.02 kW
E.E.R.	COOLING	2.67 kW/kW	2.81 kW/kW	2.67	2.81
	HEATING	2.89 kW/kW	3.21	2.85	3.22
MOISTURE REMOVAL		1.2 L/hr	2.4 L/hr	1.2 L/hr	2.4 L/hr
AIR CIRCULATION-High		470 m3/hr	470 m3/hr x 2	470 m3/hr	470 m3/hr x 2

COMPRESSOR

TYPE	Hermetic type, Permanent split condenser, 2 pole, Single phase, Induction motor, Rotary	
POWER SOURCE	230V - 50Hz	
DISCRIMINATION	802 141 65B	GK 120 PAB
REFRIGERANT R410A	900 g x 2	

FAN MOTOR

POWER SOURCE		230 V	
INDOOR UNIT	HIGH-SPEED	1,200 r.p.m.	
	MED-SPEED	1,100 r.p.m.	
	LOW-SPEED	1,000 r.p.m.	
	QUIET	940 r.p.m.	
OUTDOOR UNIT		720 r.p.m.	

DIMENSIONS

INDOOR UNIT	H x W x D	257 x 808 x 187 mm
OUTDOOR UNIT	H x W x D	700 x 900 x 350 mm

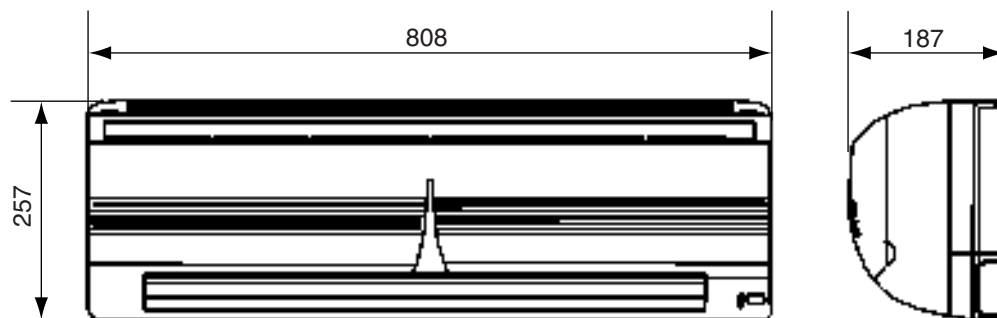
WEIGHT

INDOOR UNIT	Gross / Net	10 kg / 8 kg	
OUTDOOR UNIT	Gross / Net	74 kg / 68 kg	76 kg / 70 kg

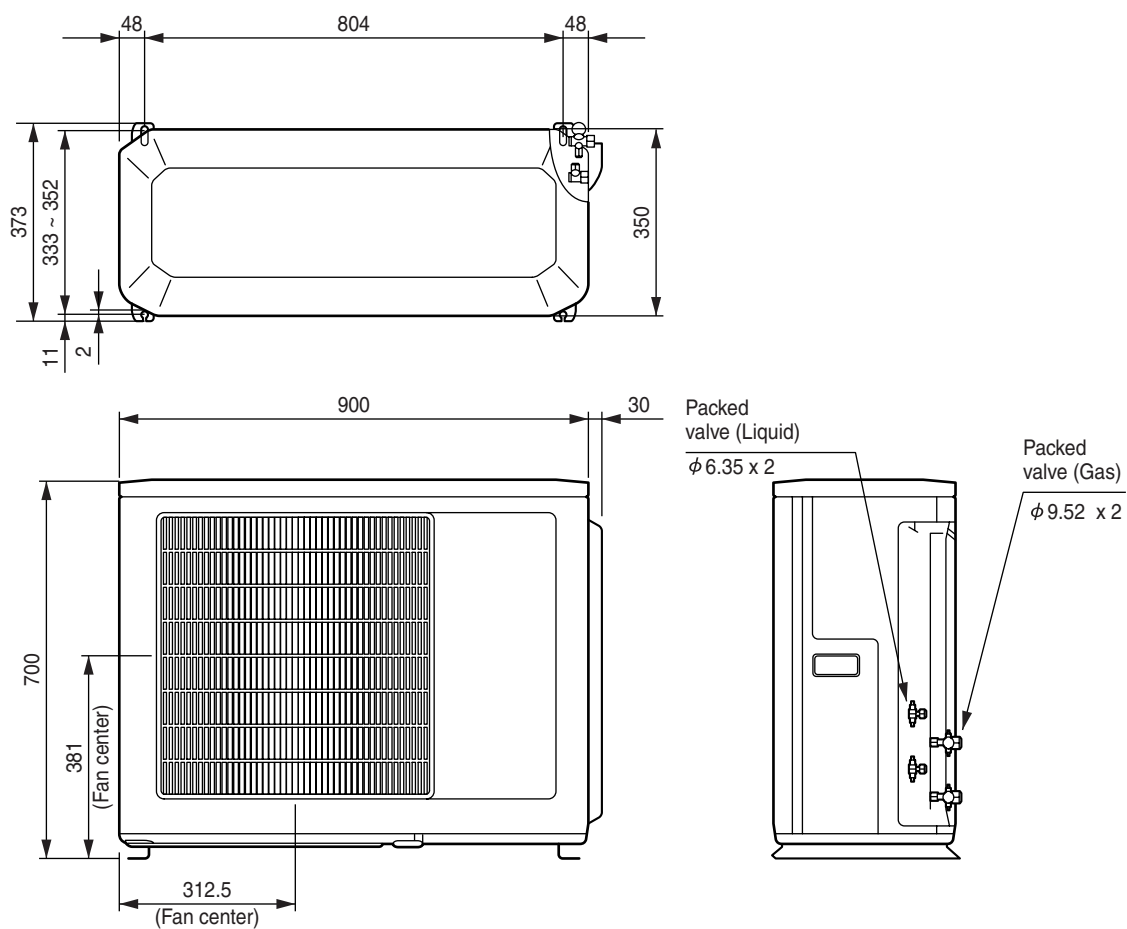
OUTLINE AND DIMENSIONS

(Unit : mm)

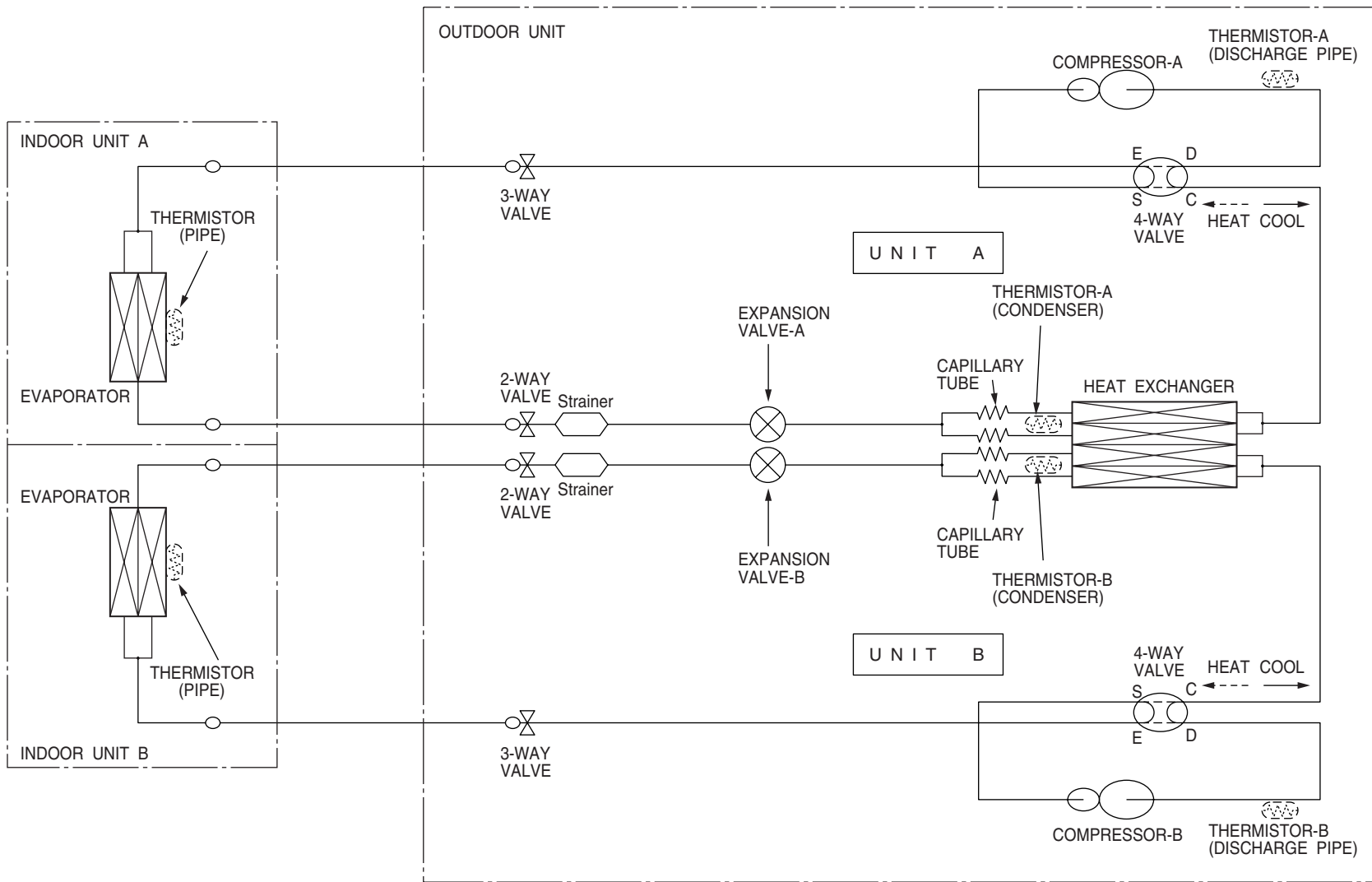
INDOOR UNIT



OUTDOOR UNIT



REFRIGERANT SYSTEM DIAGRAM



ERROR DISPLAY

INDOOR UNIT

○ : Fast flashing ● : Slow flashing

Operation lamp : Red lamp

Timer lamp : Green lamp

Large division indication			Small division indication		
Error contents	LED indication		Error contents	LED indication	
thermistor error	Red lamp Green lamp	● (2 times) ○	thermistor error (room temp.)	Red lamp	○
			thermistor error (heat exchanger)	Green lamp	● (2 times)
control unit error (indoor unit)	Red lamp Green lamp	● (4 times) ○	MANUAL AUTO button error	Red lamp	○
			power source Hz decision error	Green lamp	● (2 times)
serial error	Red lamp Green lamp	● (5 times) ○	serial reverse transmission error	Red lamp	○
			serial order transmission error	Green lamp	● (2 times)
fan motor error (indoor unit)	Red lamp Green lamp	● (6 times) ○	lock error	Red lamp	○
			r.p.m error	Green lamp	● (2 times)
				Red lamp	○
				Green lamp	● (3 times)

When an error occurs, "Large division indication" is indicated first.

Secondly, "Small division indication" is indicated by pushing "Test" button of remote controller.

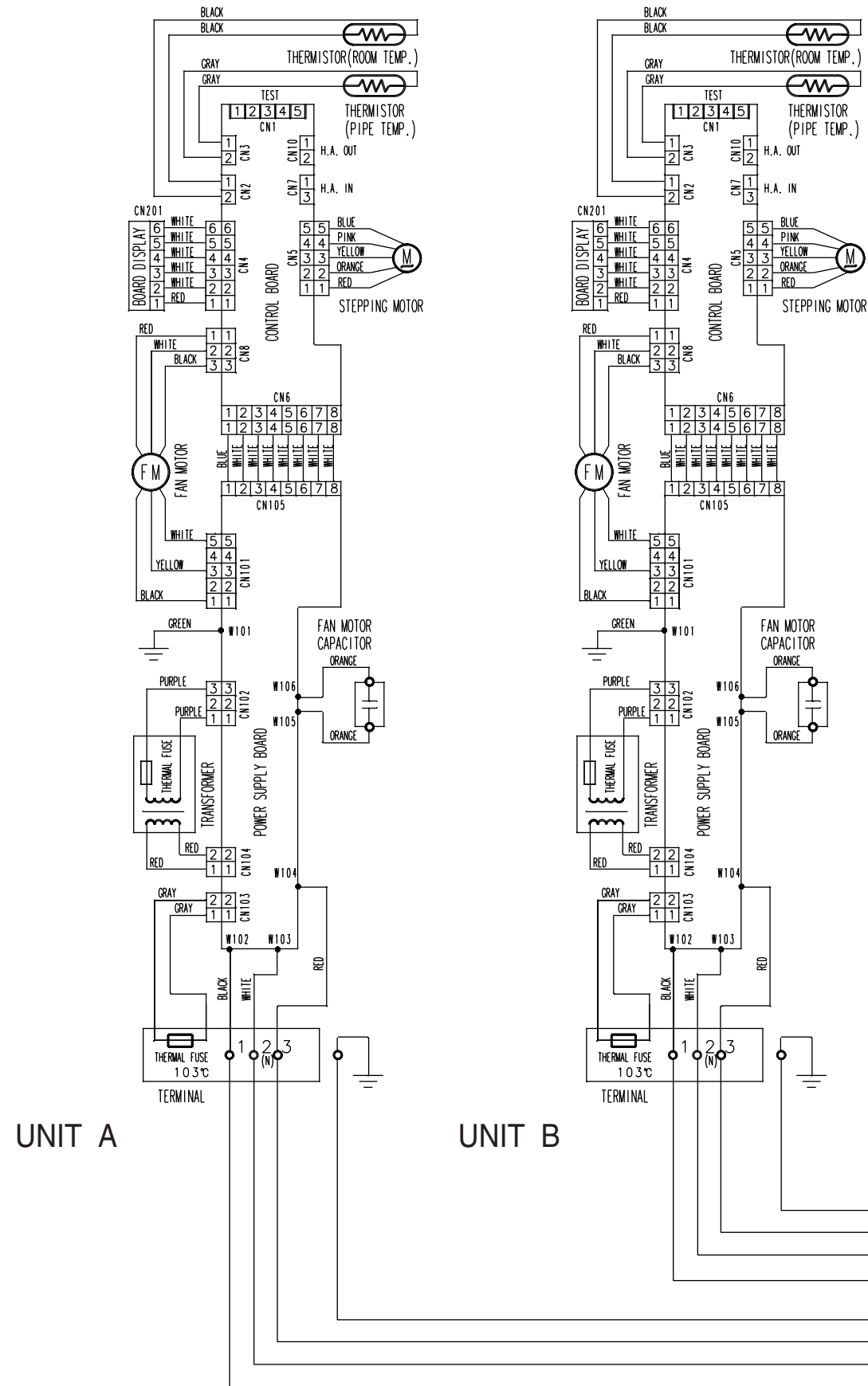
OUTDOOR UNIT

○ : Fast flashing ● : Slow flashing

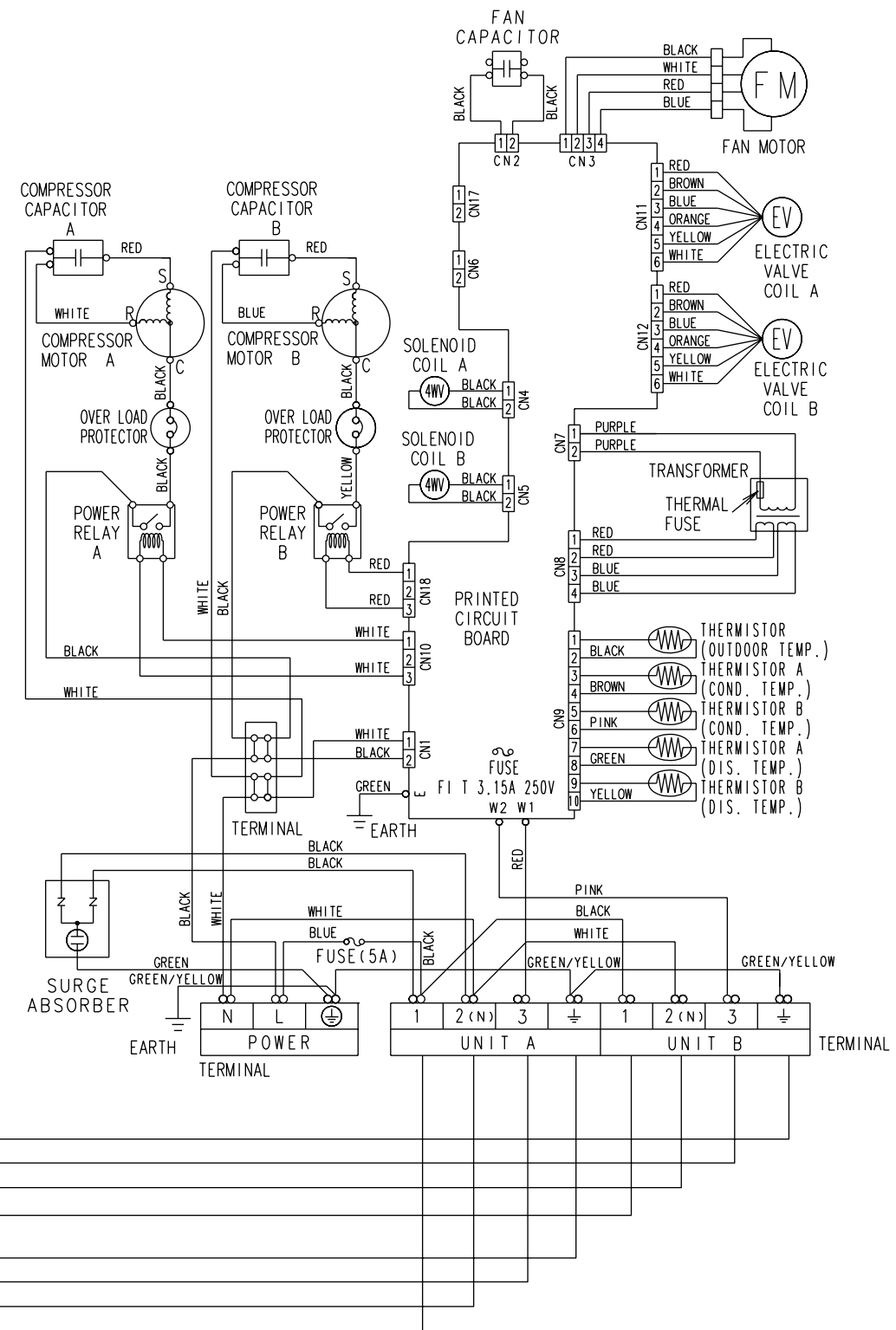
LED indication		Contents	
D8	○	Signal reception (from indoor unit A) error	Model information error
	●	—	
D15	○	Signal reception (from indoor unit B) error	0.1s ON/OFF
	●	—	
D10	● (2 times)	Thermistor (discharge pipe) A error	(All LED blink)
	● (3 times)	Thermistor (discharge pipe) B error	
	● (4 times)	Thermistor (heat exchanger) A error	
	● (5 times)	Thermistor (heat exchanger) B error	
	● (6 times)	Thermistor (outdoor temp.) error	
D17		—	
D9	● (2 times)	UNIT A : Heating overload protection	
	● (3 times)	UNIT A : Cooling deicing	
	● (4 times)	—	
	● (5 times)	UNIT A : Discharge temp. protection	
	3s ON / 1s OFF repeated	UNIT A : Heating defrost operation	
D16	● (2 times)	UNIT B : Heating overload protection	
	● (3 times)	UNIT B : Cooling deicing	
	● (4 times)	—	
	● (5 times)	UNIT B : Discharge temp. protection	
	3s ON / 1s OFF repeated	UNIT B : Heating defrost operation	

CIRCUIT DIAGRAM

INDOOR UNIT

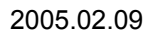


OUTDOOR UNIT



Model : ASY9UMACW

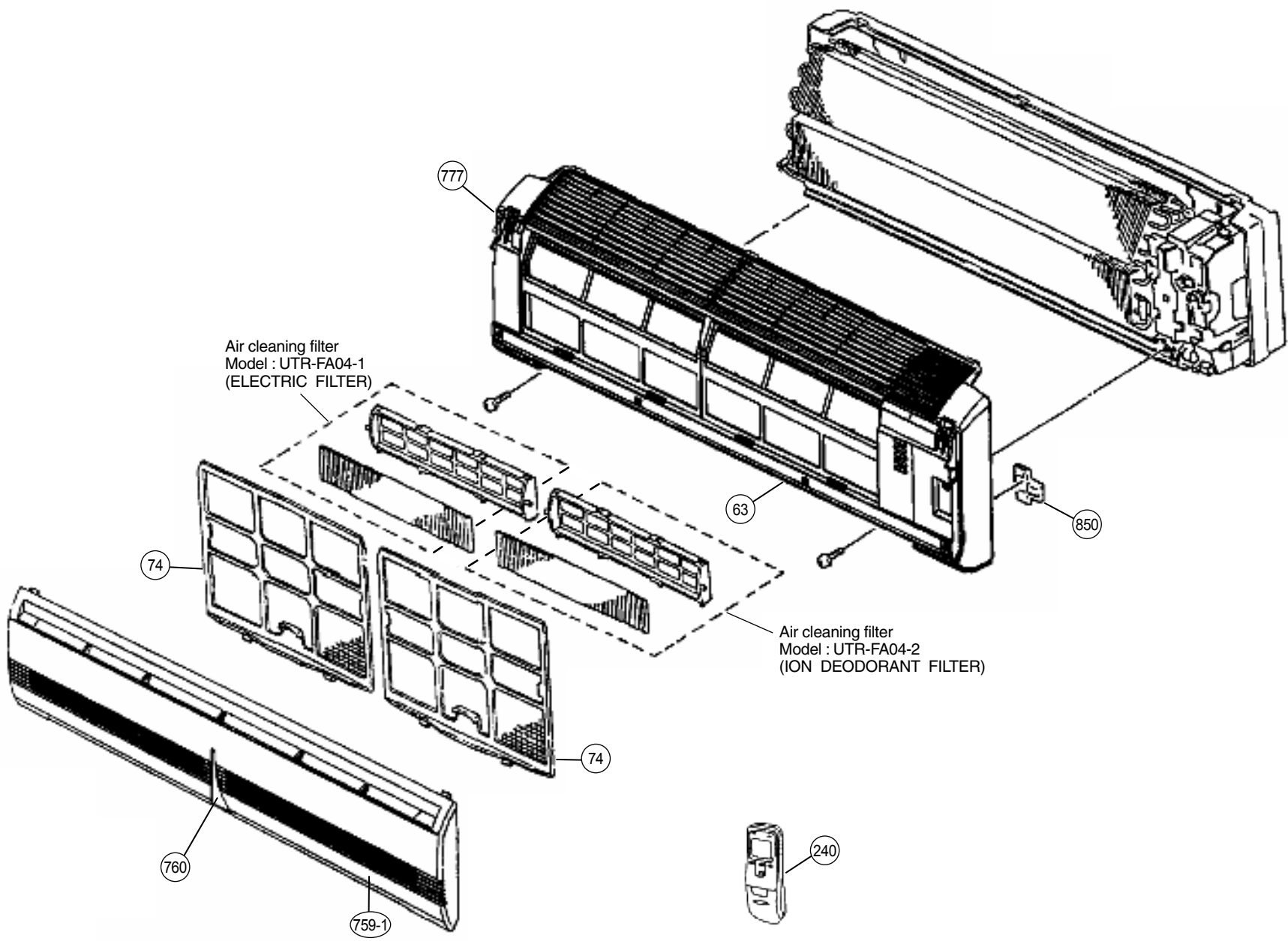
Switch	Function	ON /Linked	OFF /Open
JM1	Heating compensation	+4	0
JM2	Cooling (Dry) compensation	0	-2
JM4	Custom code	A	B

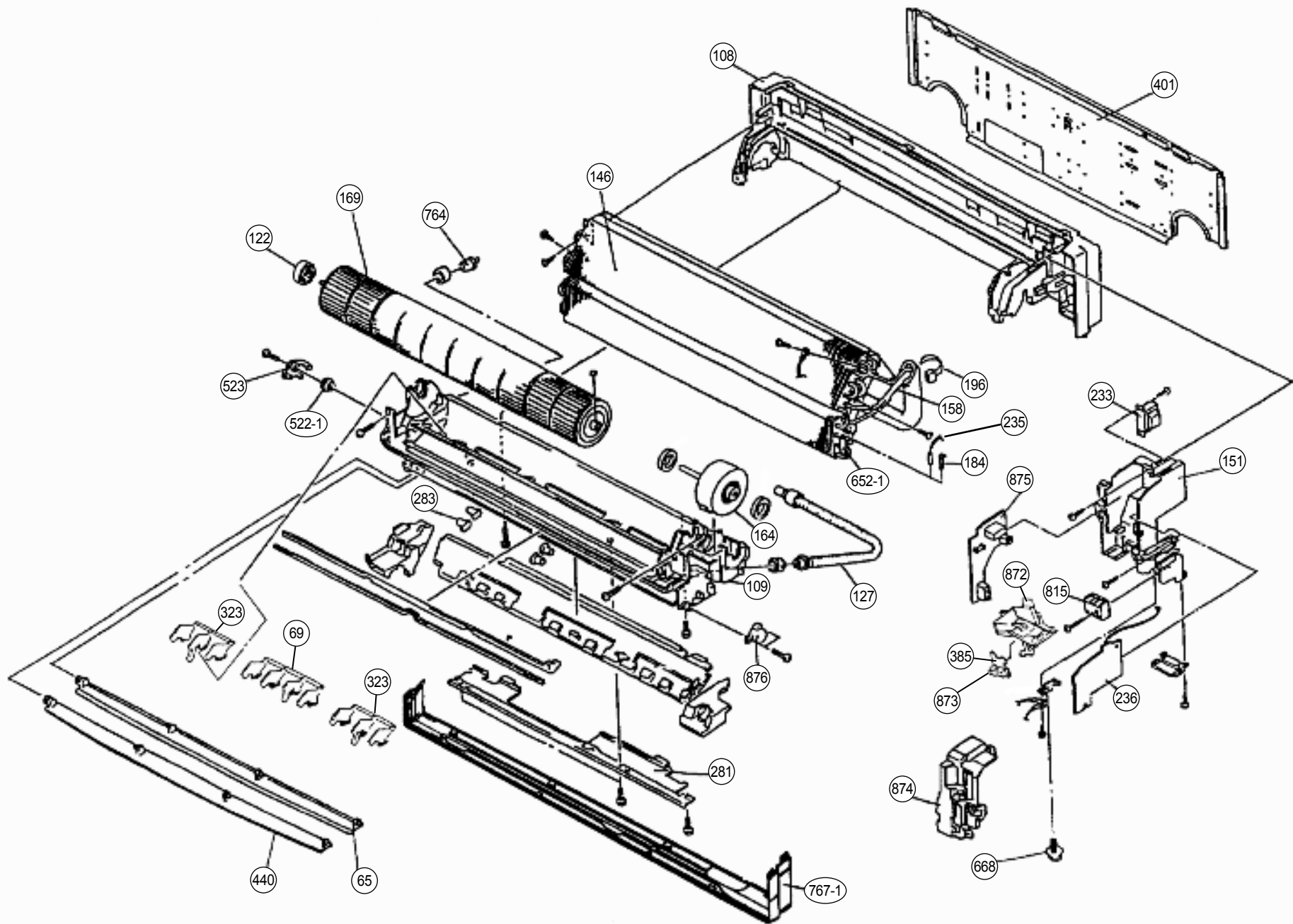


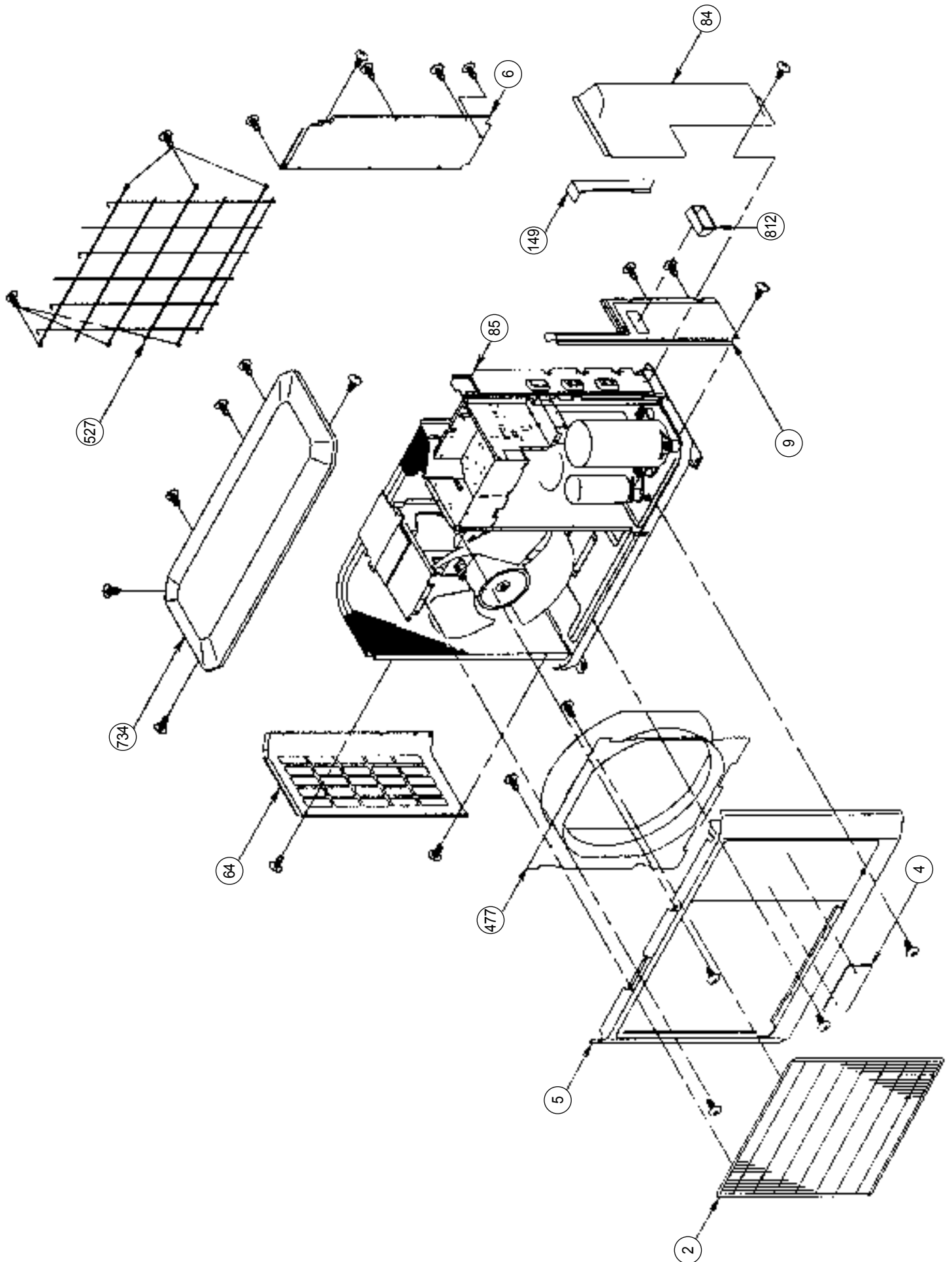
**Models: AOY19USAM2
AOY19UGBB2**

DISASSEMBLY ILLUSTRATION

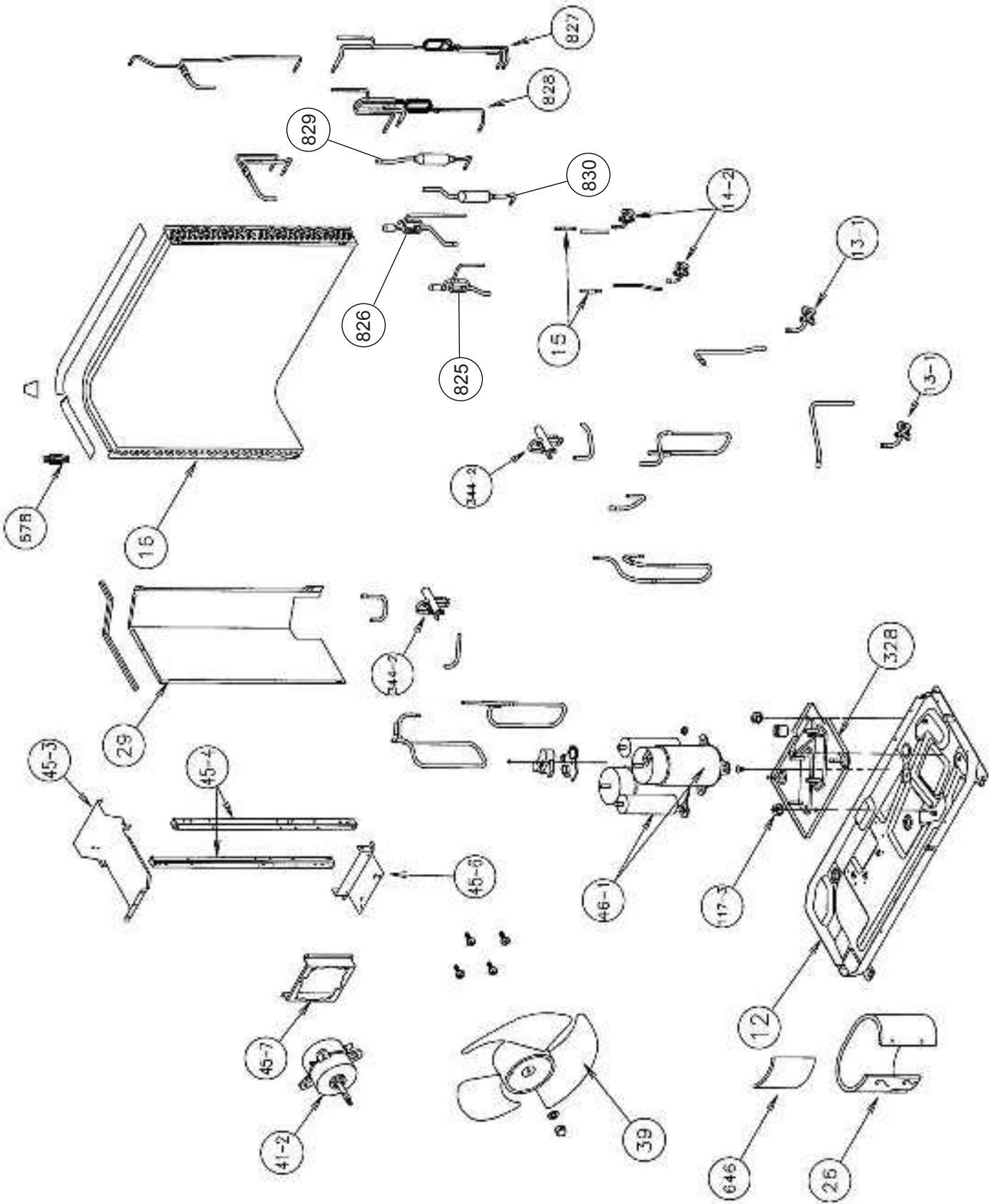
Model : ASY9UMACW

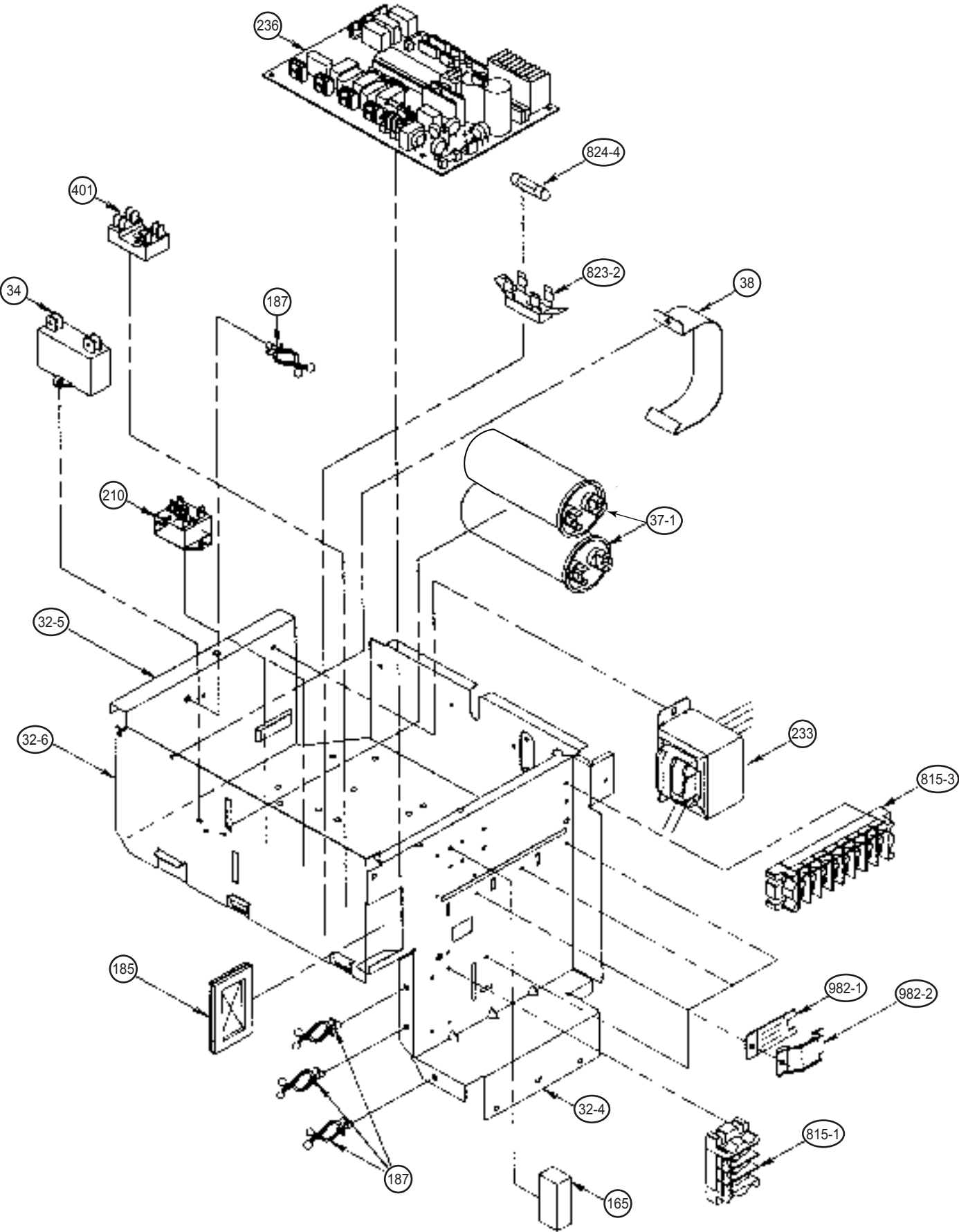




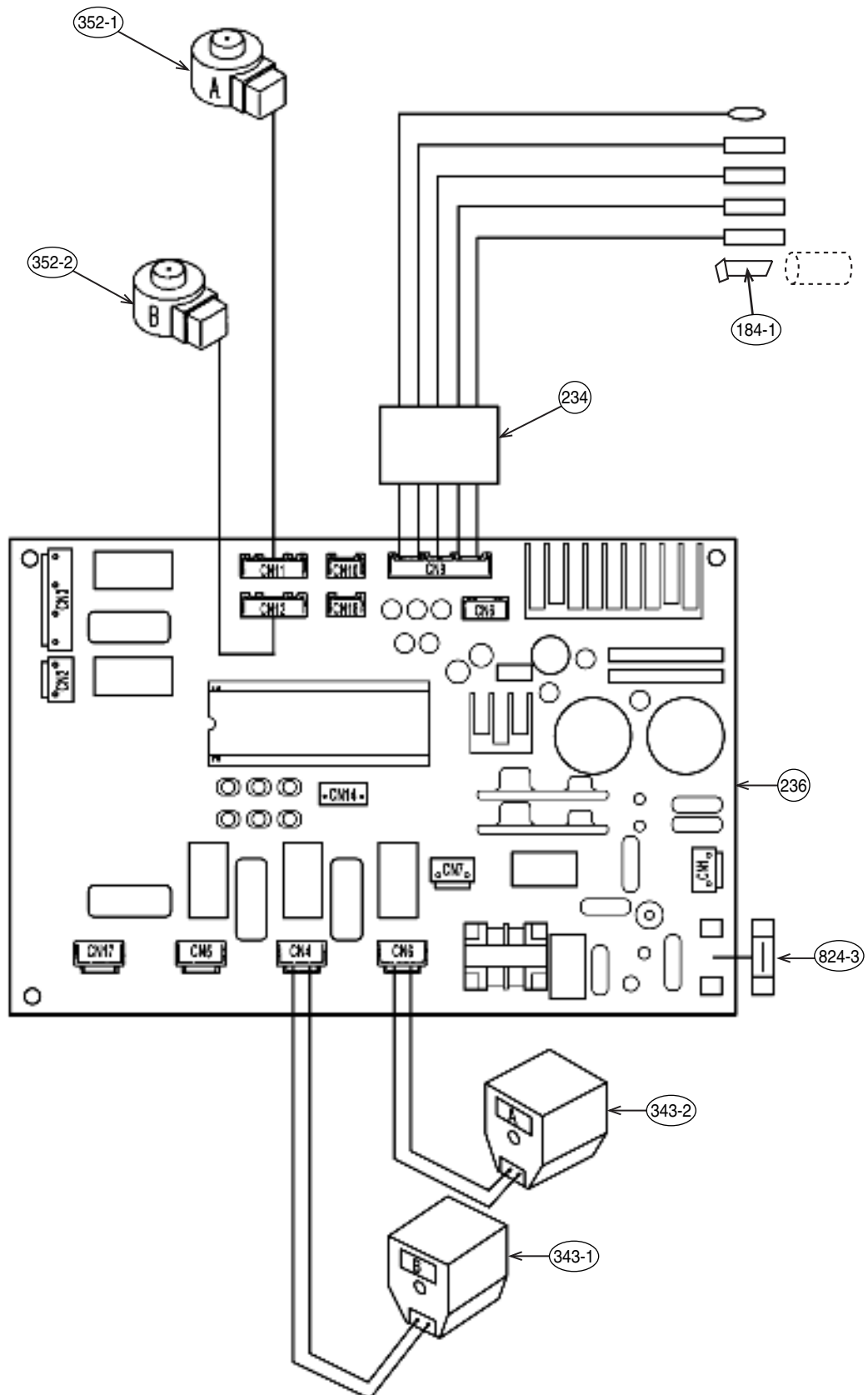


OUTDOOR UNIT

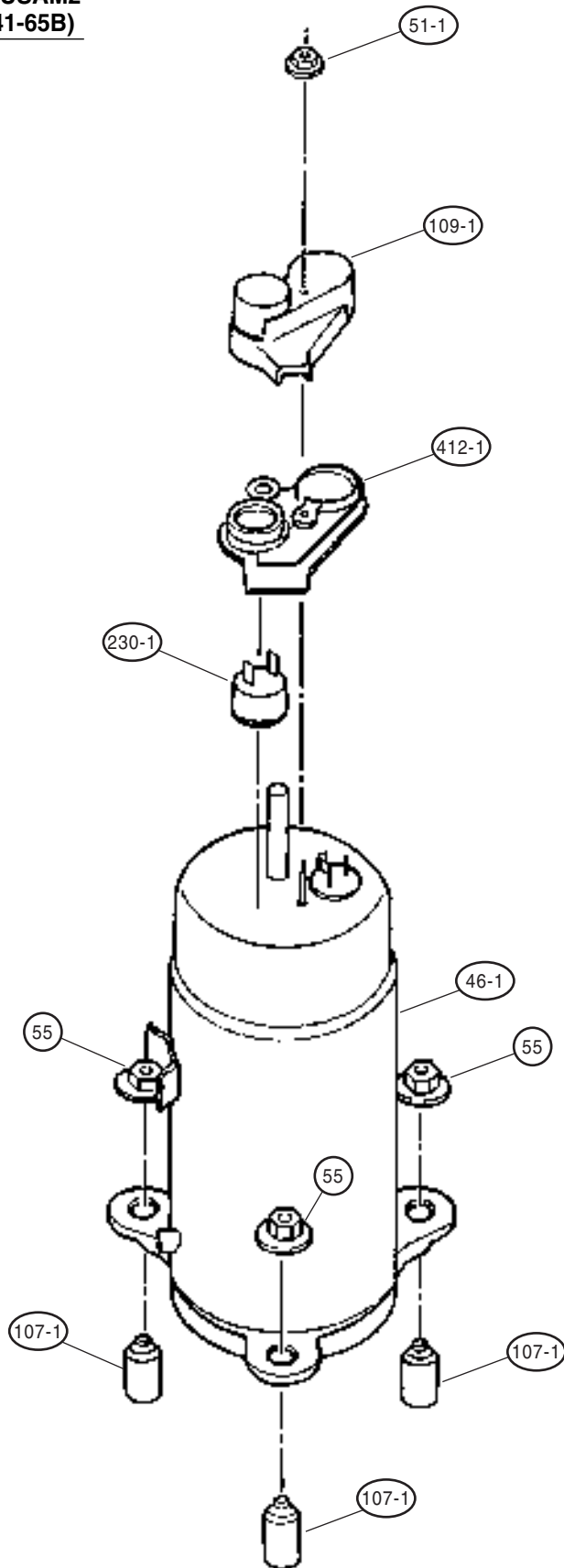




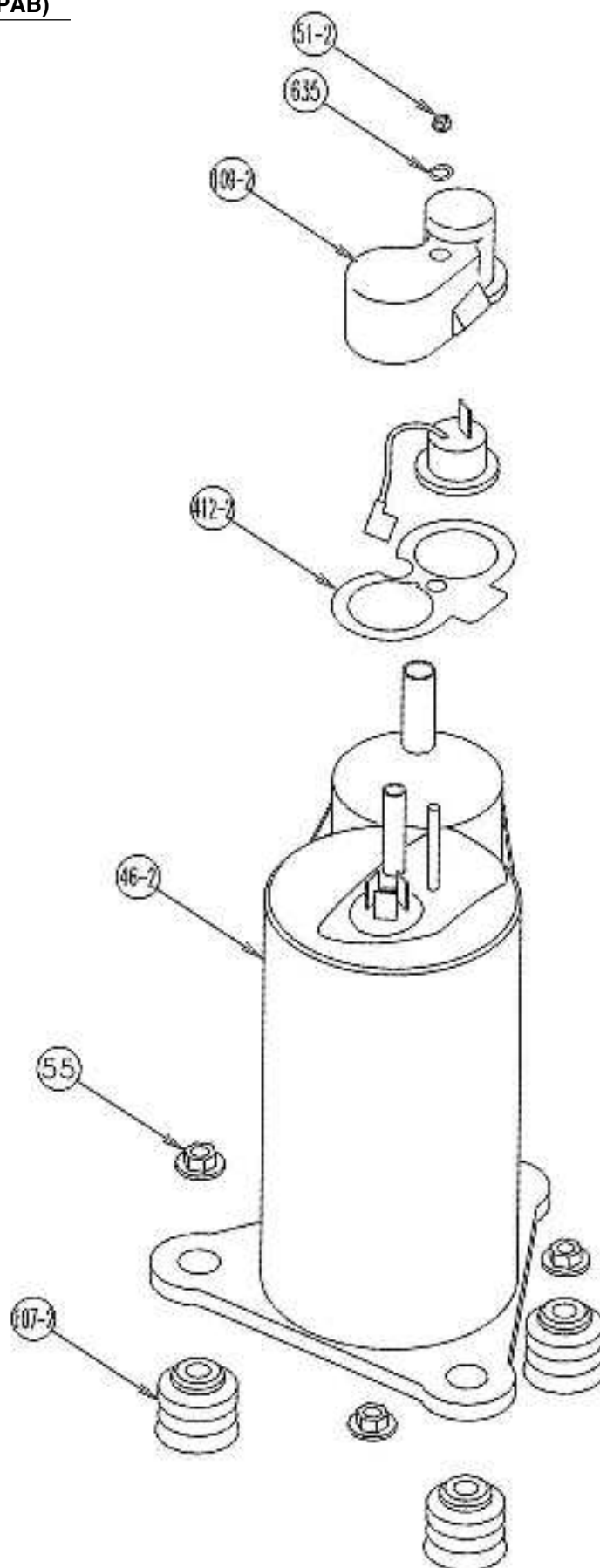
Models : AOY19USAM2
AOY19UGBB2



Model : AOY19USAM2
(802-141-65B)



Model : AOY19UGBB2
(GK120PAB)



PARTS LIST

INDOOR UNIT

Ref. No.	Description	Part No.	Ord. Q'ty
		ASY9UMACW	
63	Front Panel Assy	9312417032	
65	Flow Control Panel-Z	9306058043	
69	Louver-A	9306055028	
74	Filter	9305444014	
108	Base	9309755062	
109	Casing Assy	9312173020	
122	Shaft Holder-B	9303066010	
127	Drain Hose Assy	9305550029	
146	Evaporator Assy	9373044017	
151	Control Box	9330007017	
158	Connecting Pipe Assy	9306416010	
164	Fan Motor Assy-IN	9601844013	
169	Cross-Flow Fan Assy	9307836015	
184	Thermistor Spring	313728262708	
196	Clamp SKB-150	313035356905	
233	Power Transformer	9900028015	
235	Thermistor Assy-Pipe	9702039059	
236	Controller PCB Assy	9705289055	
240	Remote Control Unit	9371190211	
281	Clamp Metal(Pipe)	9306063009	
283	Bushing-A	9303529010	
323	Louver-B	9306056025	
385	Indicator PCB Assy	9705296015	
401	Wall Hook Bracket	9304358008	
440	Flow Control Panel-U	9306057046	
522-1	Gear-A	9306062002	
523	Gear Bracket	9306407001	
652-1	Thermistor Holder Pipe	313714262805	
668	Screw w/Washer	313681304205	
759-1	Intake Grille-F	9330001015	
760	Face Panel A	9330005044	
764	Drain Cap Assy	9304150008	
767-1	Bottom Cover	9330004016	
777	Clamper(Grille)	9306755010	
815	Terminal	9900040055	
850	Window (Receiver)	9330003019	
872	Indicator Case	9330009011	
873	Lamp Cover	9330014015	
874	Control Box Cover	9330008014	
875	Power Supply PCB Assy	9705294011	
876	Step Motor	9900139018	

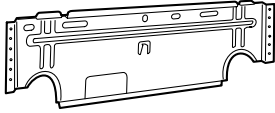
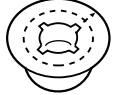
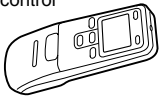
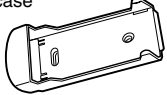
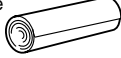
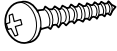
OUTDOOR UNIT

Ref.	Description	Part No.		
		AOY19USAM2	AOY19UGBB2	
2	Fan Cover	9371187013	9371187013	
4	Emblem "FUJITSU"	9371388014	9371388014	
5	Cabinet A	9359797043	9359797043	
6	Cabinet C	9359825029	9359825029	
9	Cabinet B	9359824022	9359824022	
12	Base Assy	9359813019	9359813019	
13-1	3-Way Valve	9372205044	9372205044	
14-2	2-Way Valve	9372204054	9372204054	
15	Strainer Assy	9366602019	9366602019	
16	Condenser Assy	9372662014	9372662014	
26	Compressor Cover A	9364595009	9364595009	
29	Separate Wall	9359805014	9359805014	
32-4	Control Box Metal-D	9361247000	9361247000	
32-5	Control Box Metal-E	9361248007	9361248007	
32-6	Control Box Metal-F	9361249004	9361249004	
34	Capacitor (Fan Motor)	9703306051	9703306051	
37-1	Running Capacitor	9704436139	9704436139	
38	Clamp Metal (Capacitor)	9352123009	9352123009	
39	Propeller Fan	9359837015	9359837015	
41-2	Fan Motor Induction-Out (MFB-30NTAT)	9601754015	9601754015	
45-3	Motor Bracket-A	9369627002	9369627002	
45-4	Motor Bracket-B	9371439013	9371439013	
45-6	Motor Bracket-D	9369630002	9369630002	
45-7	Motor Bracket center da	9373076018	9373076018	
46-1	Compressor Assy (802-141-65B)	9373010029	----	
46-2	Compressor (GK-120-PAB)	----	9373548027	
51-1	Special Nut (For Comp.)	313199233602	----	
51-2	Attachment (Nut)	----	9359430018	
55	Special Nut M8 (For Comp.)	9355091008	9355091008	
64	Cabinet-Left	9359840046	9359840046	
84	Valve Cover	9359834014	9359834014	
85	Valve Plate Assy	9361251021	9361251021	
107-1	Rubber Seat (For Comp.)	9351507015	----	
107-2	Attachment (Rubber Seat-A)	----	9359425014	
109-1	Terminal Cover (For Comp.)	9302419008	----	
109-2	Terminal Cover (For Comp.)	----	9363263008	
117-3	Hex. Nut	301721180114	301721180114	
149	Water Seal Plate	9359841029	9359841029	
165	Surge Absorber	9702968014	9702968014	

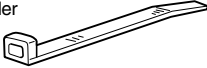
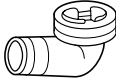
Ref.	Description	Part No.		
		AOY19USAM2	AOY19UGBB2	
184-1	Thermo. Spring-A	313728262708	313728262708	
185	Rubber Bushing	313005066051	313005066051	
187	Clamp No. 1219	313361271706	313361271706	
210	Main Relay	9356781007	9356781007	
230-1	Ocr assy (MRA99134-9201)	9311143000	----	
233	Power Transformer	9701156016	9701156016	
234	Thermistor Assy	9900123017	9900123017	
236	Controller PCB Assy	9702766030	9702766030	
328	Compressor Plate Assy	9359830030	9359830030	
343-1	Solenoid Coil-A	9900165055	9900165055	
343-2	Solenoid Coil-B	9900165062	9900165062	
344-2	4-Way Valve	9900162016	9900162016	
352-1	Expansion Coil-A	9970021015	9970021015	
352-2	Expansion Coil-B	9970021022	9970021022	
401	Terminal-2P	9701971015	9701971015	
412	Terminal Gasket (For Comp.)	9351505011	9351505011	
412-2	Attachment (Cover Gasket)	----	9362004008	
477	Bellmouth	9359809012	9359809012	
527	Protective Net	9359845010	9359845010	
635	Attachment Washer (Gasket)	----	9359428015	
646	Noise Insulation B	9355788007	9355788007	
678	Bracket (Thermistor)	9367369010	9367369010	
734	Top Plate, Painted	9359799023	9359799023	
812	Grip	9352157004	9352157004	
815-1	Terminal-3P	9358660027	9358660027	
815-3	Terminal-8P	9358660119	9358660119	
823-2	Fuse Holder	0500063024	0500063024	
824-3	Fuse (3.15A-250V)	0600285234	0600285234	
825	Expansion Valve A Assy	9360821065	9360821065	
826	Expansion Valve B Assy	9360822062	9360822062	
827	Capillary-A Assy	9360814128	9360814128	
828	Capillary-B Assy	9360815132	9360815132	
829	Muffler A Sub Assy	9373022015	9373022015	
830	Muffler B Sub Assy	9373023012	9373023012	
982-1	Cord Clamp	9356857009	9356857009	
982-2	Cord Clamp-B	9356858006	9356858006	

STANDARD ACCESSORIES

INDOOR UNIT ACCESSORIES

Name and Shape	Q'ty	Part No.
Wall hook bracket 	1	9304358008
Wall cap-B 	1	313714296205
Remote control unit 	1	9307979057 (AR-DB5)
Battery (penlight) 	1 set	0600185534
Remote control unit holder case 	1	9305642014
Cloth tape 	1	9308117007
Tapping screw (big) ($\phi 4 \times 25$) 	8	0700076046
Tapping screw (small) ($\phi 3 \times 12$) 	2	0700019036

OUTDOOR UNIT ACCESSORIES

Name and Shape	Q'ty	Part No.
Binder 	2	312300787605
Putty 	1	303020200114
Hexagon wrench 	1	9351228019
Drain pipe 	1	9303029015
Drain cap 	2	313166024302

