

SPLIT TYPE ROOM AIR
CONDITIONER
WALL MOUNTED TYPE

**SERVICE
MANUAL**



Indoor unit	Outdoor unit
ASY10FSACW	AOY10FSAC
ASY12FSACW	AOY12FSAC

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SPECIFICATIONS

ELECTRICAL DATA

TYPE	Cool	Cool
INDOOR UNIT	ASY10FSACW	ASY12FSACW
OUTDOOR UNIT	AOY10FSAC	AOY12FSAC
COOLING CAPACITY	2.90 kW - 2.95 kW	3.45 kW - 3.50 kW
POWER SOURCE	220 V - 240 V	220 V - 240 V
FREQUENCY	50 Hz	50 Hz
RUNNING CURRENT	4.7 A - 4.6 A	6.1 A - 6.1 A
INPUT WATTS	1.015 kW - 1.045 kW	1.27 kW - 1.32 kW
EER	2.86 - 2.82 kW/kW	2.72 - 2.65 kW/kW
MOISTURE REMOVAL	1.3 L/hr	1.8 L/hr
AIR CIRCULATION HIGH	490 - 490 m3/hr	500 - 500 m3/hr

FAN MOTOR

POWER SOURCE		220 V - 240 V	220 V - 240 V
INDOOR UNIT	High speed	1,300 - 1,300 r.p.m.	1,330 - 1,330 r.p.m.
	Middle	1,200 - 1,200 r.p.m.	1,250 - 1,250 r.p.m.
	Low	1,100 - 1,100 r.p.m.	1,170 - 1,170 r.p.m.
	Quiet	1,040 - 1,040 r.p.m.	1,080 - 1,080 r.p.m.
OUTDOOR UNIT		730 - 765 r.p.m.	725 - 760 r.p.m.

NOISE LEVEL

INDOOR UNIT	High speed	39 - 39 dB	40 - 40 dB
	Middle	38 - 38 dB	39 - 39 dB
	Low	36 - 36 dB	37 - 37 dB
	Quiet	34 - 34 dB	35 - 35 dB
OUTDOOR UNIT		45 - 46 dB	47 - 48 dB

Note : Noise was measured in accordance with JIS standards, Japan.

COMPRESSOR AND REFRIGERANT

TYPE		Hermetic type, Permanent split condenser 2 pole, Single phase, Induction motor	
DISCRIMINATION		80230135	80235035
POWER SOURCE		220-240V 50Hz	220-240V 50Hz
PRECHARGED REFRIGERANT		590 g	720 g
REFRIGERANT TYPE		R410A	R410A
FULL CHARGE	Pipe length 5 m	590 g	720 g
	10 m	690 g	820 g
	15 m	790 g	920 g
ADDITIONAL CHARGE		20 g/m	20 g/m

Note : Always use s vacuum pump to purge the air.

Refrigerant for purging air is not charged in an outdoor unit at a factory.

DIMENSIONS

INDOOR UNIT	H x W x D	260 x 815 x 175 mm
OUTDOOR UNIT	H x W x D	535 x 695 x 250 mm

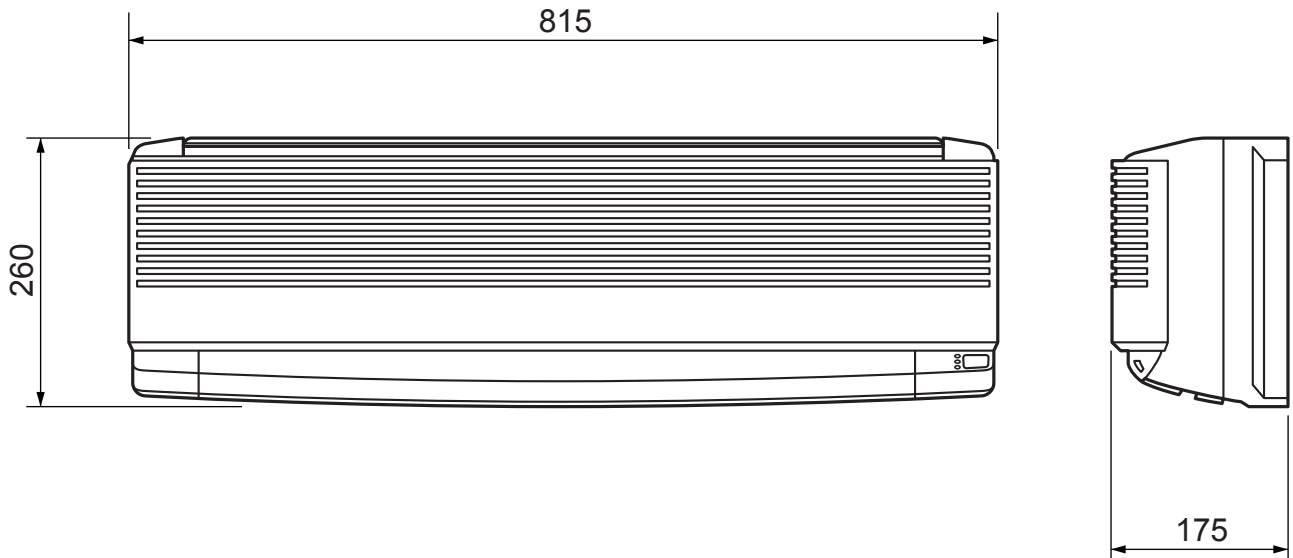
WEIGHTS

INDOOR UNIT	Gross / Net	10 kg / 8 kg
OUTDOOR UNIT	Gross / Net	33 kg / 30 kg 35 kg / 32 kg

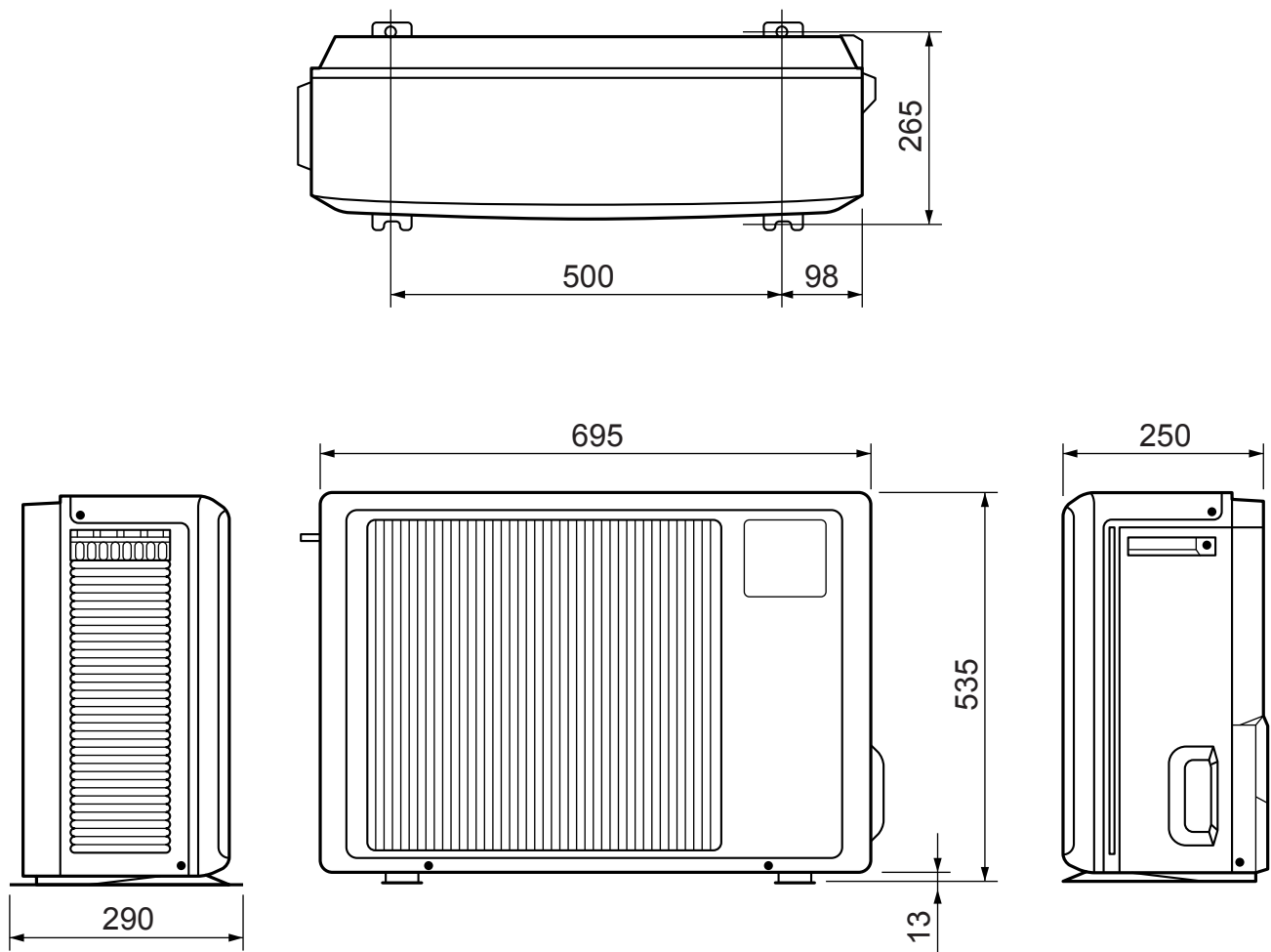
DIMENSIONS

Unit : mm

INDOOR UNIT

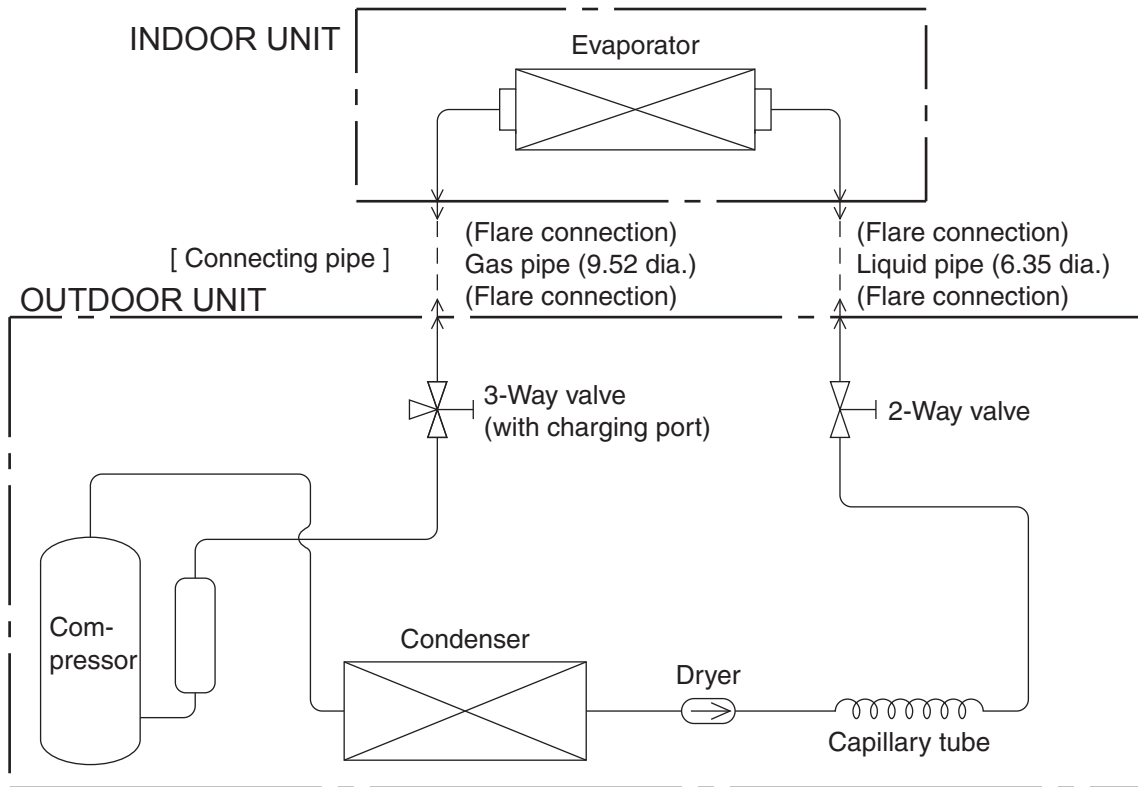


OUTDOOR UNIT

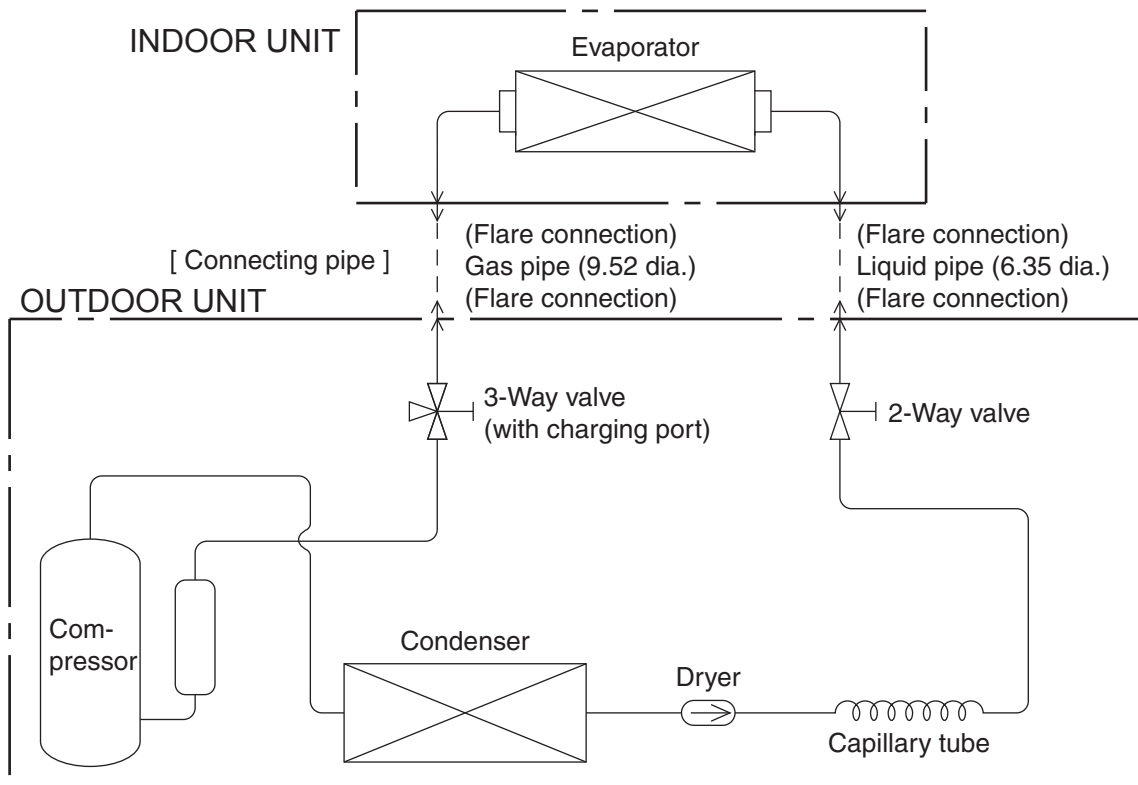


REFRIGERANT SYSTEM DIAGRAM

ASY10FSACW / AOY10FSAC

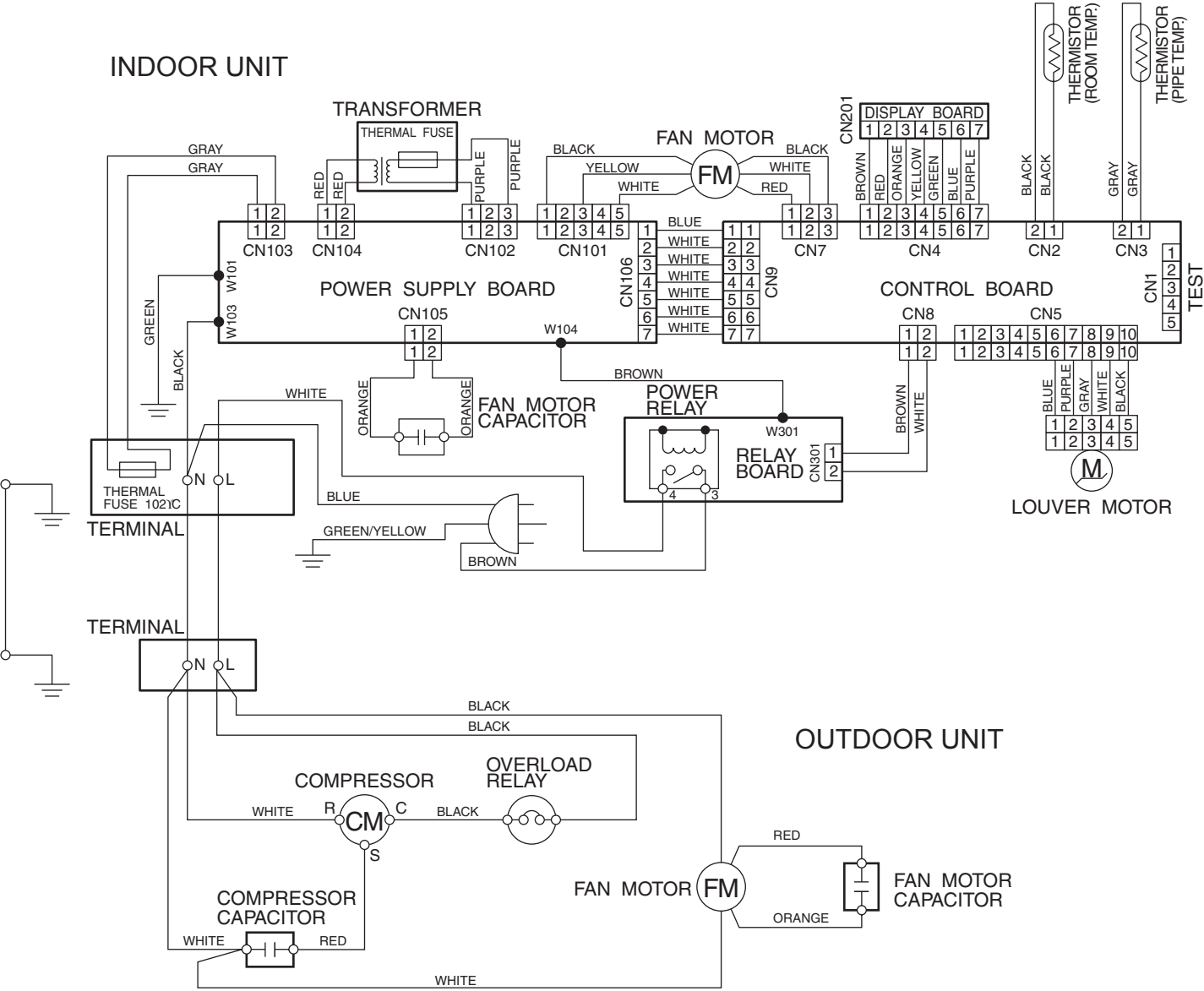


ASY12FSACW / AOY12FSAC



CIRCUIT DIAGRAM

INDOOR UNIT



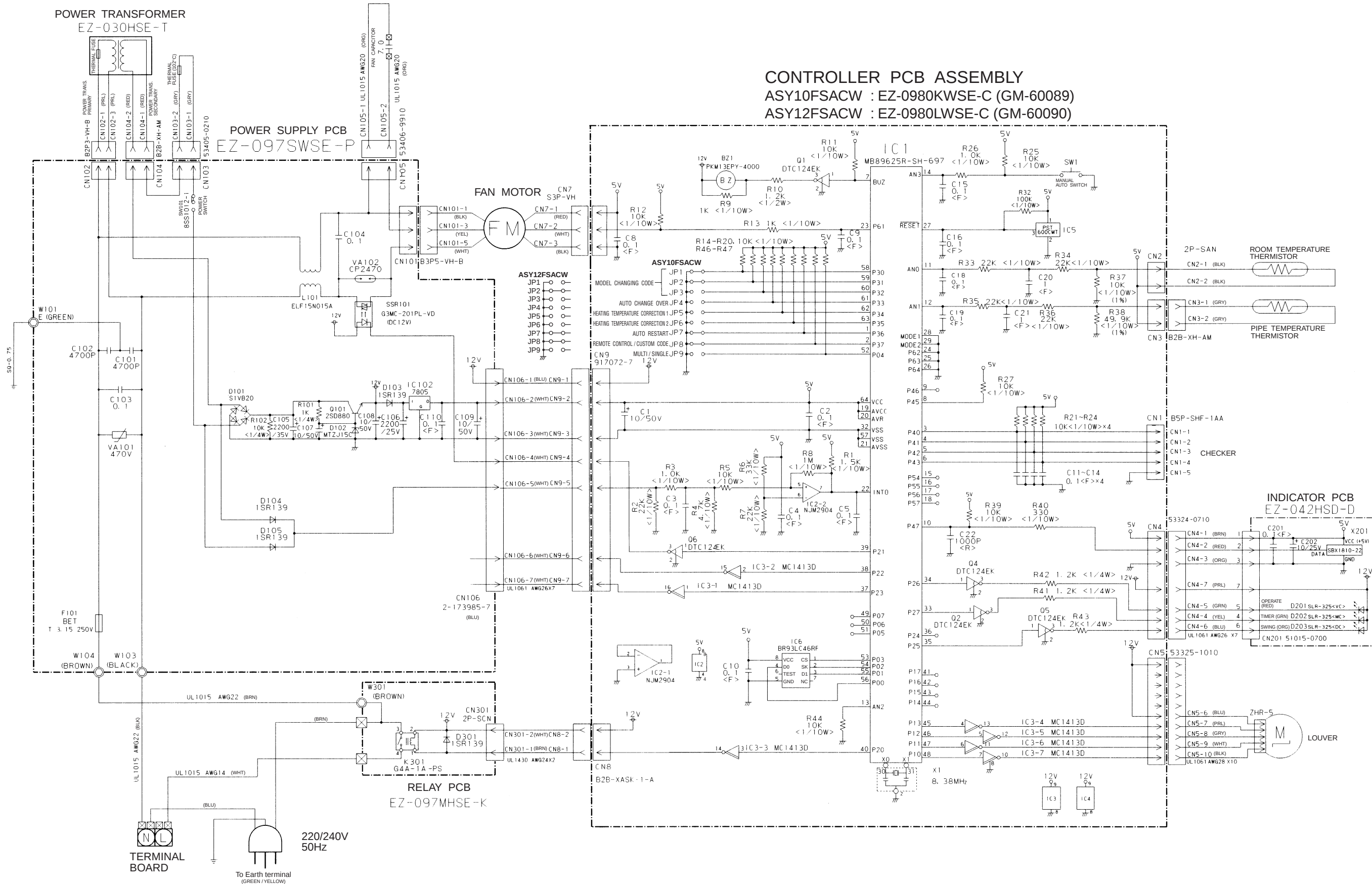
INDOOR PRINTED CIRCUIT BOARD CIRCUIT DIAGRAM

Models : ASY10FSACW
ASY12FSACW

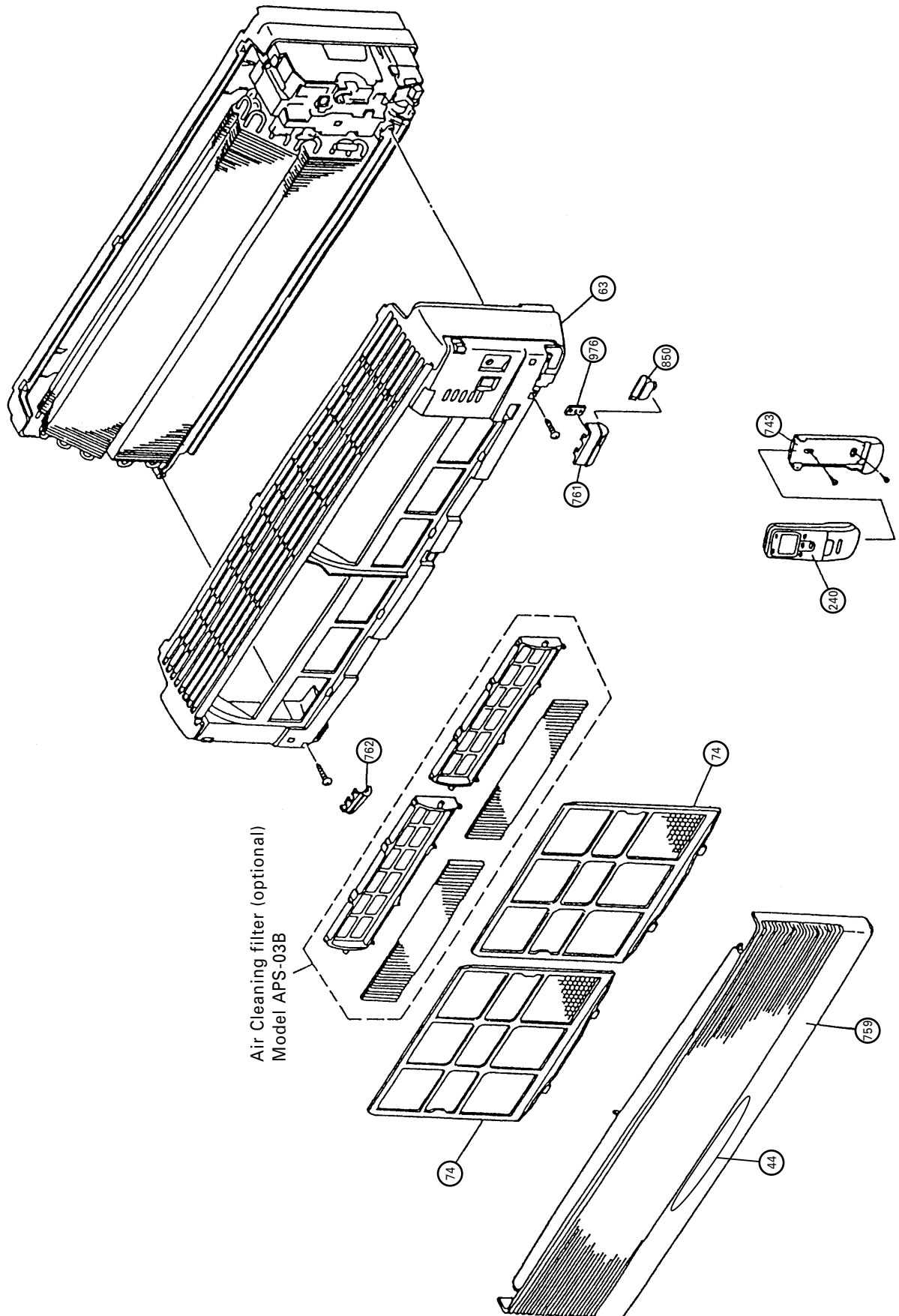
CONTROLLER PCB ASSEMBLY

ASY10FSACW : EZ-0980KWSE-C (GM-60089)

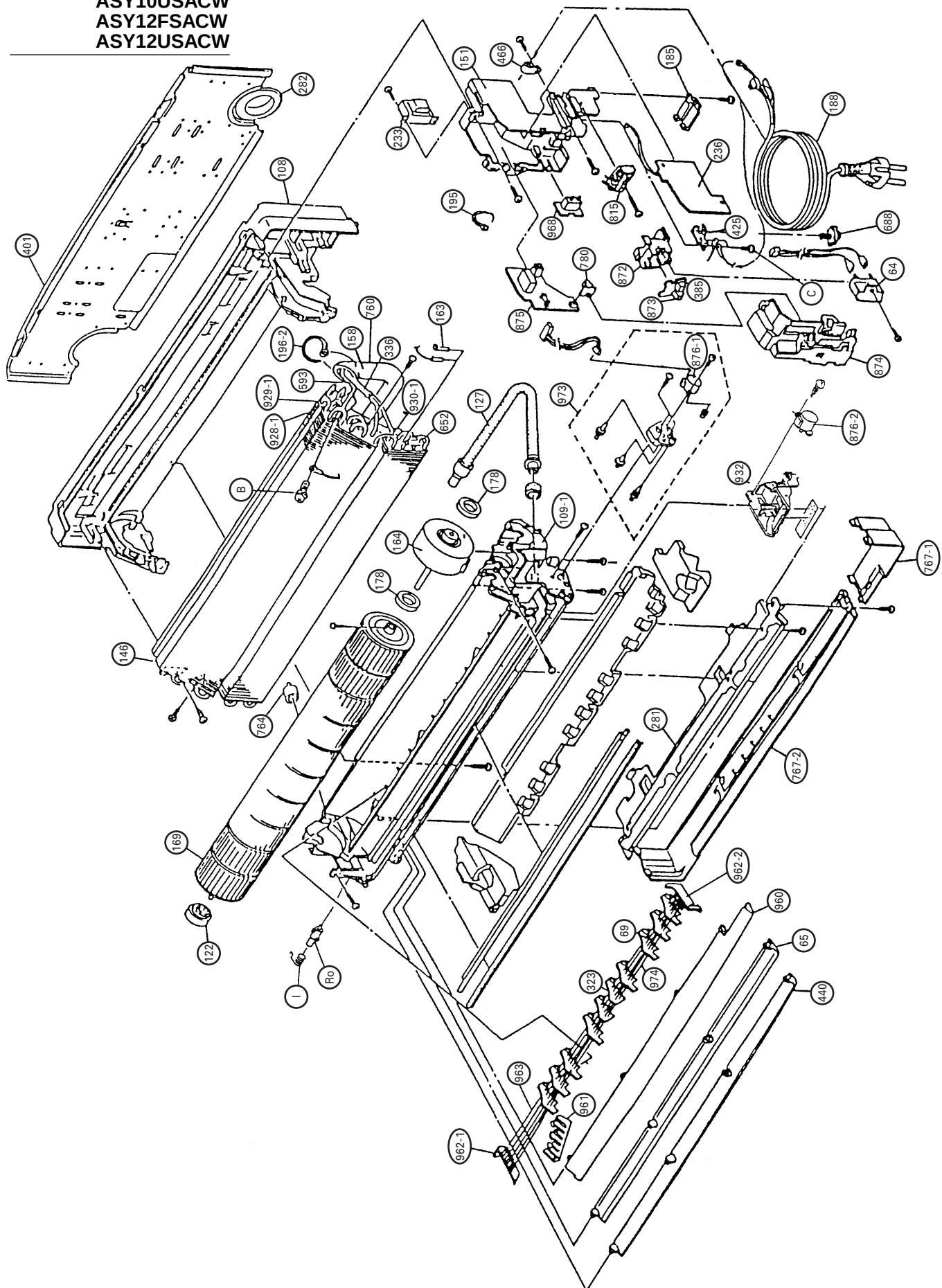
ASY12FSACW : EZ-0980LWSE-C (GM-60090)



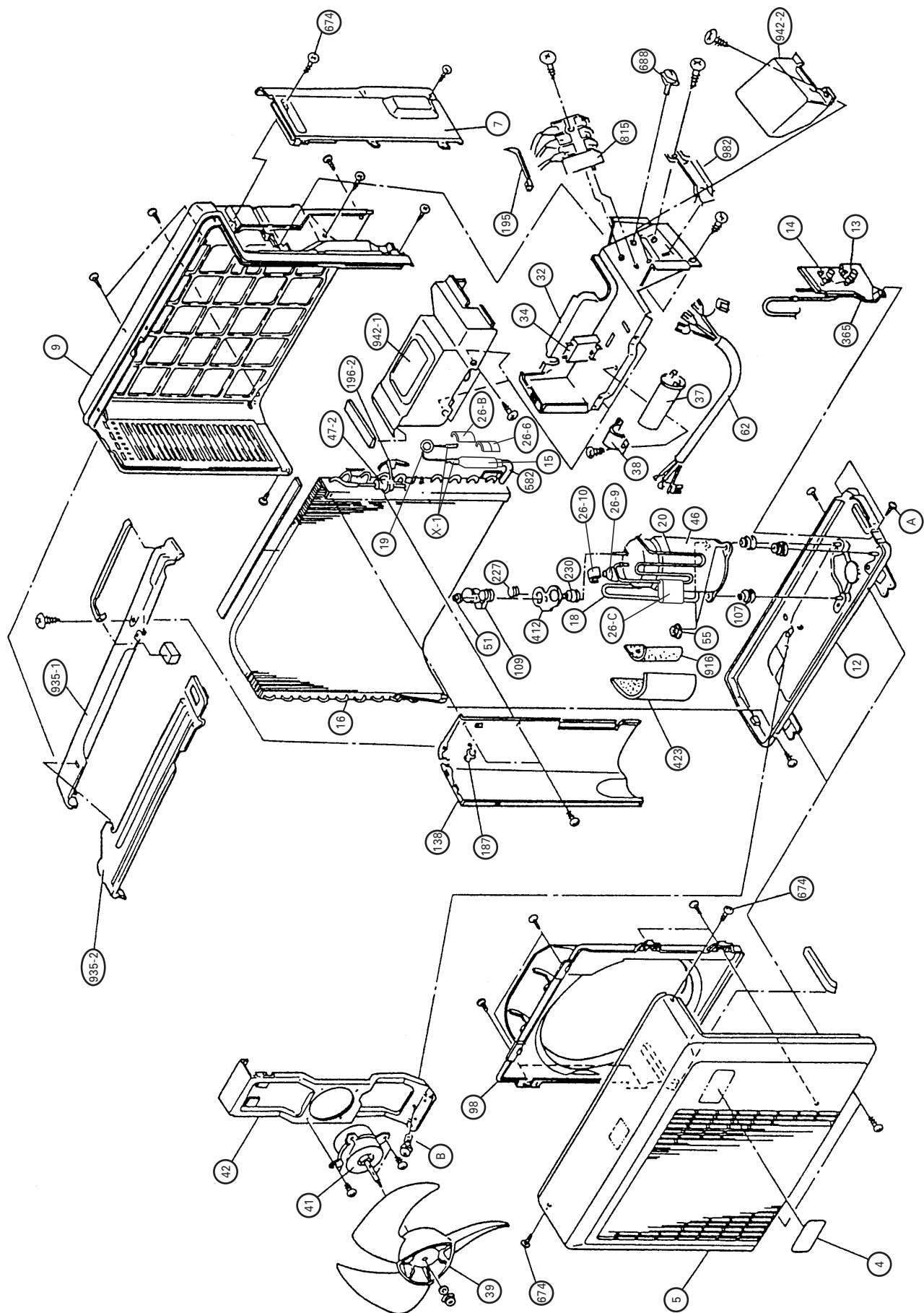
DISASSEMBLY ILLUSTRATION



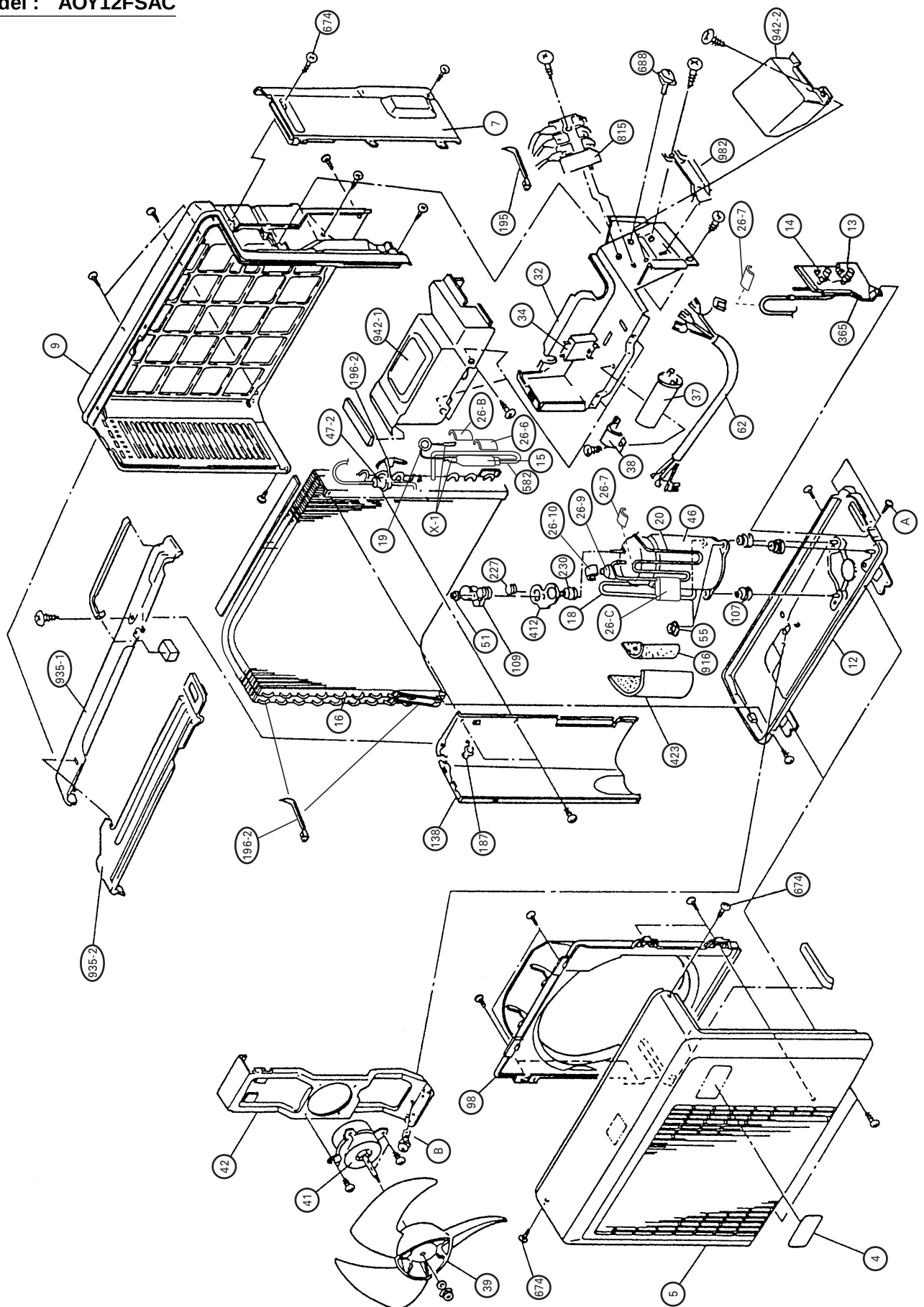
Models : ASY10FSACW
 ASY10USACW
 ASY12FSACW
 ASY12USACW



Model : AOY10FSAC



Model : AOY12FSAC



PARTS LIST

INDOOR UNIT

Ref.	Description	Part number	
44	Decoration Plate-B	9307218040	
63	Front Panel Assy	9305656394	
64	Capacitor (Fan Motor)	9702105020	
65	Flow Control Panel-Z	9305443017	
69	Louver-A	9305415014	
74	Filter	9305444014	
108	Base	9309755031	
109-1	Casing	9305411016	
122	Shaft Holder-B	9303066010	
127	Drain Hose Assy	9305550029	
146	Evaporator Assy	9308555045	
151	Control Box	9306763015	
158	Connecting Pipe Assy	9306416010	
163	Thermistor Spring	313104262701	
164	Fan Motor Assy	9601844013	
169	Cross-Flow Fan Assy	9307836015	
178	Motor Cushion-B	9306274009	
185	Wire Clamp	9305940004	
188	Power Cord Assy	9702595012	
195	Clamp SKB-100	313361275805	
196-2	Clamp SKB-150	313035356905	
233	Power Transformer	9900028015	
236	Controller PCB Assy (ASY10)	9702889104	
236	Controller PCB Assy (ASY12)	9702889111	
240	Remote Control	9374322220	
281	Clamp Metal (Pipe)	9306192006	
282	Wall Cap-B (Accessory)	313714296205	
323	Louver-B	9305597017	
336	Suction Pipe-A Assy	9305741014	
385	Indicator PCB Assy	9701364015	
401	Wall Hook Bracket	9304358008	
425	Earth Terminal	9306483005	
440	Flow Control Panel-U	9306173012	
466	Clamp NK-4N	313714328805	
593	Discharge Pipe-A Assy	9306417017	
652-1	Thermistor Holder Pipe	313714262805	
688	Screw w/Washer	313681304205	
743	Remote Control Holder	9305642014	
755-2	Casing Cover-R	9305418008	
755-4	Casing Cover-B	9305419005	
755-5	Insulation (Casing)-U	9305730001	
755-6	Insulation (Casing)-V	9305925018	
759	Intake Grille-D	9307186035	
760	Insulation (Pipe)-E	9304607007	
761	Side Cover-R	9305996018	
762	Side Cover-L	9305437047	
764	Drain Cap Assy	9304150008	
767-1	Bottom Cover-A	9309801035	
767-2	Bottom Cover-B	9309802032	
780	Key Top (Slide Switch)	9303526002	
815	Terminal-2P	9701955022	

Ref.	Description	Part number	
850	Window (Receiver)	9305439027	
872	Indicator Case	9305978014	
873	Lamp Cover	9305451012	
874	Control Box Cover	9305977017	
875	Power Supply PCB Assy	9702441012	
876-1	Step Motor	9305780006	
928-1	U-Pipe (BB)	9305747009	
929-1	U-Pipe (V)	9305748006	
930-1	U-Pipe (W)	9305749003	
932	Outlet Cover	9305414017	
960	Diffuser Assy	9306013011	
961	Guard Clamp	9306332013	
962-1	Guard Holder-L	9305753017	
962-2	Guard Holder-R	9305752010	
963	Fan Guard	9305751013	
964	Flare Nut-A	9307767005	
965	Flare Nut-B	9307768002	
966	Bonnet-A	9304798019	
967-1	Bonnet-B	9304799016	
968	Relay PCB Assy	9702443214	
973	Gear Assy	9305452002	
974	Joint (Louver)	9305416011	
976	Window (Indicator)	9305440016	
B	Machine Screw (with Spring Washer)	0700179013	
C	Machine Screw (Special)	0700184031	
I	Diffuser Spring	9305731008	
Ro	Connecting Pin	9305413010	
---	Room Thermistor	9702324018	
---	Pipe Thermistor	9702425012	

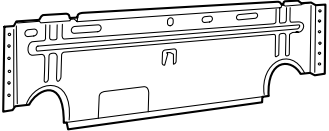
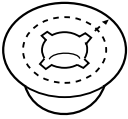
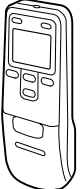
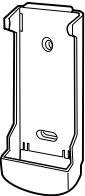
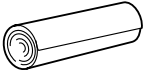
OUTDOOR UNIT

Ref. No.	Description	Part number		
		AOY10FSAC	AOY12FSAC	
4	Emblem-Rear	9308468017	9308468017	
5	Cabinet Front Panel, Plastic	9306386016	9306386016	
7	Connector Cover (Cabinet)	9306119010	9306119010	
9	Cabinet Rear Panel, Plastic	9306385019	9306385019	
12	Base Assy, Painted	9306118020	9306118020	
13	3-Way Valve	9310085011	9310085011	
14	2-Way Valve	9310084014	9310084014	
15	Dryer	9308440006	9308440006	
16	Condenser Assy	9308462015	9308463012	
18	Suction Pipe	9308675002	9308679000	
19	Capillary Tube	9308670007	9308668004	
20	Discharge Pipe Assy	9308677006	9308681003	
26-6	BR Sheet 100x120x T5	9305039029	9305039029	
26-7	BR Sheet 30x120x T7	-----	9305039036	
26-9	BR Sheet 180x180x T2	9305039067	9305039067	
26-10	BR Sheet 100x160x T5	9305039074	9305039074	
26-B	BR Sheet 170x130x T2	9305498062	9305498062	
26-C	BR Sheet 55x135x T2	9305039166	9305039166	
32	Control Box Metal	9308561015	9308561015	
34	Capacitor (Fan Motor)	9700468097	9700468097	
37	Capacitor (Running)	9306512019	9306512019	
38	Clamp Metal (Capacitor)	313468061808	313468061808	
39	Propeller Fan	9305538003	9305538003	
41	Fan Motor Assy-Out	9307715020	9307715020	
42	Bracket (Motor)	9305536016	9305536030	
46	Compressor Assy	9310112014	9310110010	
47-2	Discharge Pipe Rubber (Pipe Absorber)	313185159802	313185159802	
51	Special Nut M5	313199233602	313199233602	
55	Special Nut M8	313252257701	313252257701	
62	Wire Assy (Shield)-A	9395695027	9395695027	
98	Fan Ring	9305581023	9305581023	
107	Rubber Seat-A	9351813017	9351813017	
109	Terminal Cover (Comp.)	9351120009	9351120009	
138	Separate Wall	9305971008	9305971008	
187	Clamp No.1219	313361271706	313361271706	
195	Clamp SKB-100	313361275805	313361275805	
196-2	Clamp SKB-3MC	9305335008	9305335008	
230	Overload Relay	9308430007	9308443001	

OUTDOOR UNIT (Continued)

Ref.	Description	Part number		
		AOY10FSAC	AOY12FSAC	
246	Outlet Pipe (Cond.)	9308669001	9308666000	
365	Bracket (Valve)	9306748036	9306748036	
412	Terminal Gasket (Comp.)	9351121006	9351121006	
423	Noise Insulation-F	9308464019	9308464019	
582	Discharge Pipe	9308669001	9308666000	
674	Tapping Screw (Special)	9305848010	9305848010	
688	Screw (with Square Washer)	313681304205	313681304205	
815	Terminal-3P	9306489014	9306489014	
916	Noise Insulation-G	9306362003	9306362003	
935-1	Reinforcement (Cabinet Top)	9305973002	9305973002	
935-2	Reinforcement-F (Cabinet Top)	9306123000	9306123000	
942-1	Control Box Cover-A Metal	9308562012	9308562012	
942-2	Control Box Cover-B Metal	9305975006	9305975006	
982	Cord Clamp (Plastic, Black)	9302271002	9302271002	
A	Screw (with Inner Washer)	9357297002	9357297002	
B	Screw (with Spring Washer)	0700179013	0700179013	
X-1	Connection Pipe (Capillary)	9308667007	9308667007	
985	Special Nut. w/Washer	9304902003	-----	
986	Special Washer	9304903000	-----	

ACCESSORIES

Name and Shape	Part number	
	ASY10FSACW	ASY12FSACW
Wall hook bracket 	9304358008	9304358008
Wall cap-B 	313714296205	313714296205
Remote control 	9307113048	9307113048
Remote control holder case 	9305642014	9305642014
Battery (penlight) 	0600185534	0600185534
Cloth tape 	9308117007	9308117007
Tapping screw (big) (ø 4 x 20) 	301141164200	301141164200
Tapping screw (small) (ø 3 x 12) 	0700019036	0700019036
Allen wrench 	9351228019	9351228019

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