

SPLIT TYPE ROOM AIR CONDITIONER WALL MOUNTED type

SERVICE MANUAL



Indoor unit	Outdoor unit
ASY17FSBQ	AOY17FNBK
ASY17USBQ	AOY17UNBK
(made in Thailand)	
ASY17FSCQ	AOY17FNBN
ASY17USCQ	AOY17UNBN
(made in China)	

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SPECIFICATIONS

INDOOR UNIT	ASY17FSBQ ASY17FSCQ	ASY17USBQ ASY17USCQ
OUTDOOR UNIT	AOY17FNBK AOY17FNBN	AOY17UNBK AOY17UNBN
COOLING CAPACITY (kW)	4.70	4.70
HEATING CAPACITY (kW)	---	5.40

ELECTRICAL DATA

POWER SOURCE (V)		230	
FREQUENCY (Hz)		50	
RUNNING CURRENT (A)	COOLING	8.3	7.9
	HEATING	---	8.9
INPUT WATTS (kW)	COOLING	1.85	1.76
	HEATING	---	1.99
E.E.R. (kW/kW)	COOLING	2.54	2.67
	HEATING	---	2.71
MOISTURE REMOVAL (ℓ /hr)		2.1	
AIR CIRCULATION-HI (m³/hr)		560	

COMPRESSOR

TYPE	Hermetic type, Permanent split condenser, 2 pole, Single phase, Induction motor, Rotary
DISCRIMINATION	5KS225DAC

FAN MOTOR

POWER SOURCE	230	
DISCRIMINATION (INDOOR UNIT)	MFA - 17AT	
FAN SPEED (r.p.m.)	HI-SPEED	1,300
	MED-SPEED	1,210
	LO-SPEED	1,110
DISCRIMINATION (OUTDOOR UNIT)	MFB - 24JTT	
FAN SPEED (r.p.m.)	780	

DIMENSIONS

INDOOR UNIT	H x W x D (mm)	285 x 900 x 172
OUTDOOR UNIT	H x W x D (mm)	650 x 830 x 320

WEIGHT

INDOOR UNIT	GROSS / NET (kg)	13 / 10	
OUTDOOR UNIT	GROSS / NET (kg)	51 / 47	56 / 52

REFRIGERANT CHARGE (R410A)

Pipe Length FULL CHARGE AMOUNT	25 ft (7.5 m)	28.2 oz (800 g)	44.1 oz (1,250 g)
	33 ft (10 m)	29.5 oz (838 g)	45.4 oz (1,288 g)
	49 ft (15 m)	32.2 oz (913 g)	48.1 oz (1,363 g)
	66 ft (20 m)	34.8 oz (988 g)	50.7 oz (1,438 g)

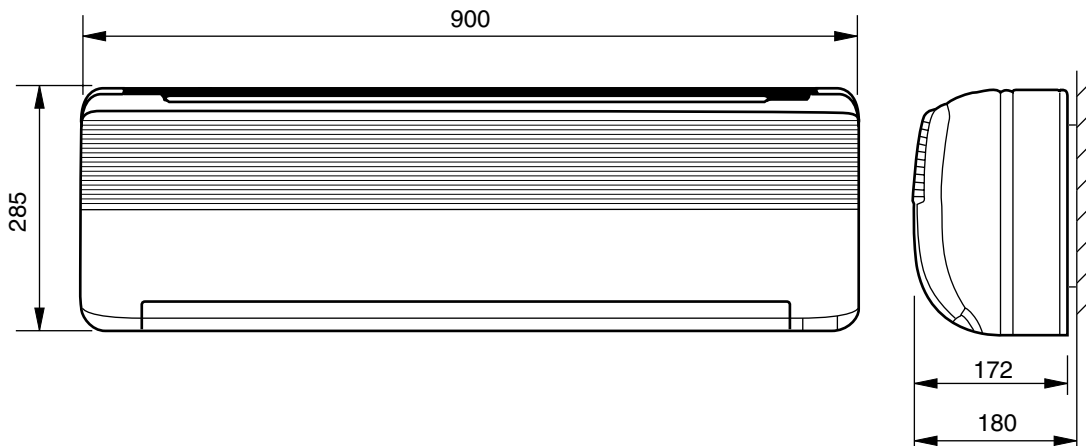
Note : Between 7.5 m and 20 m, when using a connection pipe other than that in the table, charge additional refrigerant with 0.53 oz (15 g) / 3.3 ft (1 m) as the criteria.

OUTLINE AND DIMENSIONS

Unit : mm

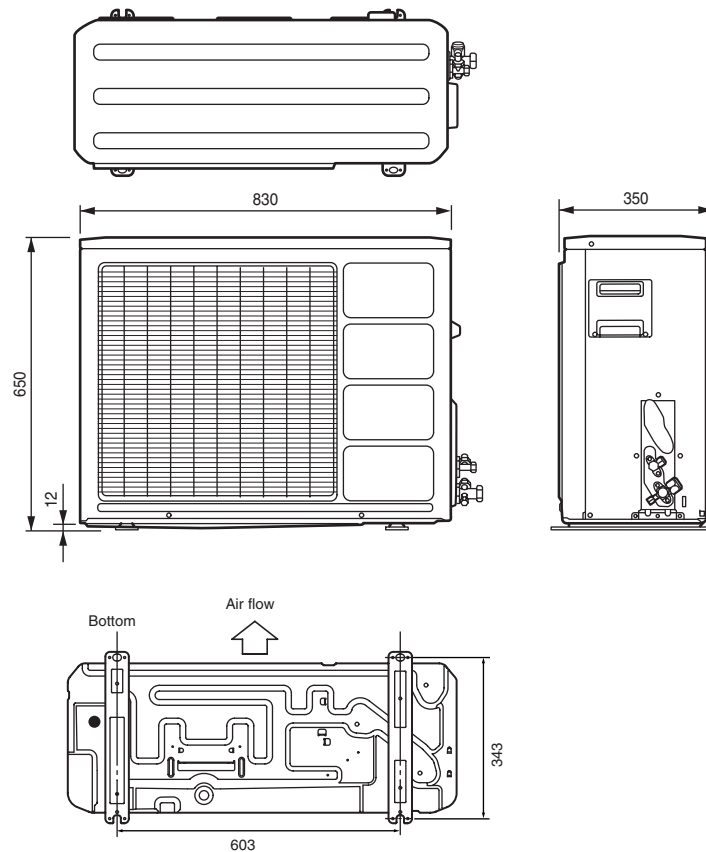
INDOOR UNIT

Models : ASY17FSBQ
ASY17USBQ
ASY17FSCQ
ASY17USCQ



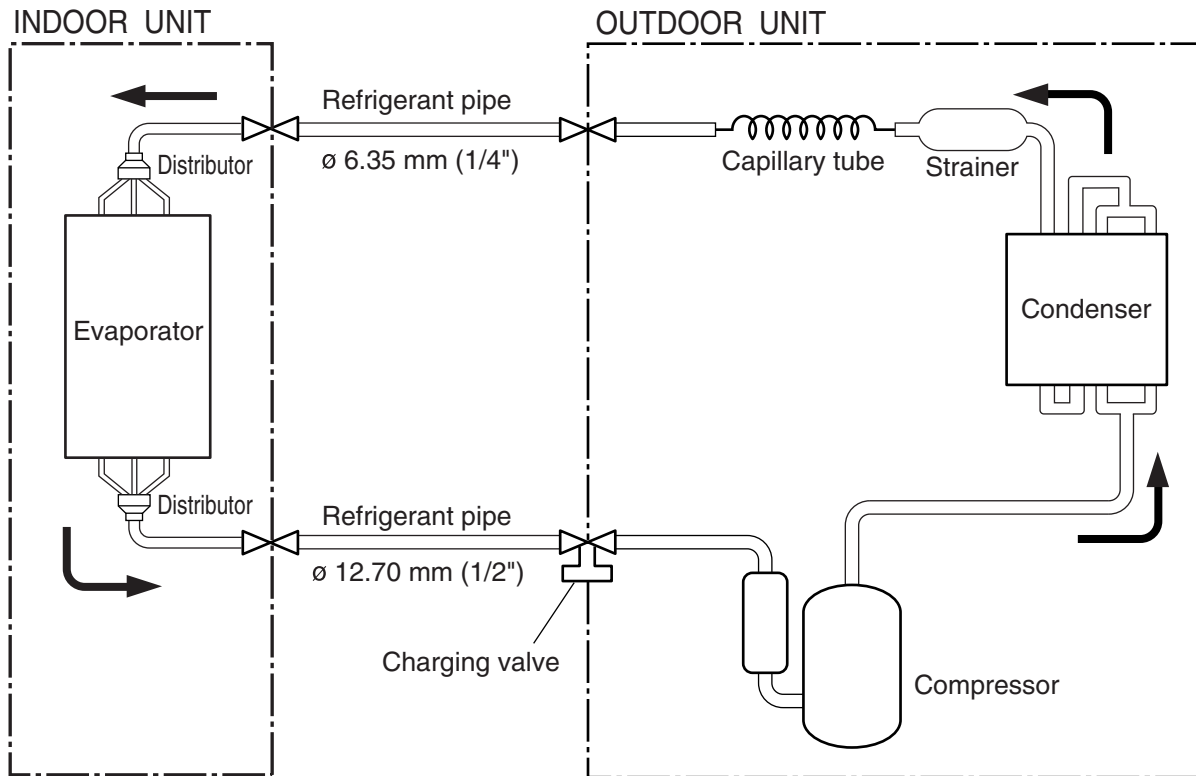
OUTDOOR UNIT

Models : AOY17FNBK
AOY17UNBK
AOY17FNBN
AOY17UNBN

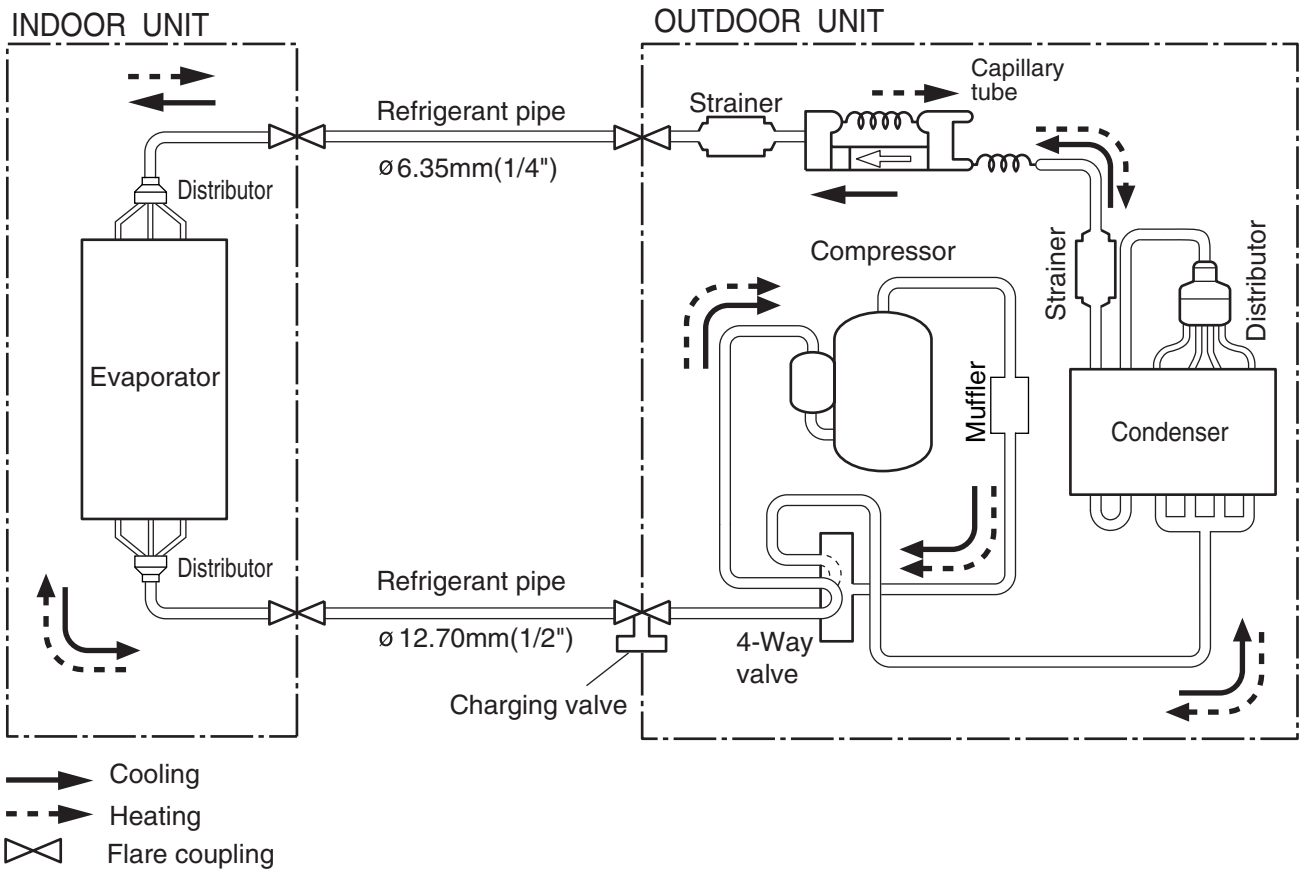


REFRIGERANT SYSTEM DIAGRAM

Models : ASY17FSBQ / AOY17FNBK
ASY17FSCQ / AOY17FNBN

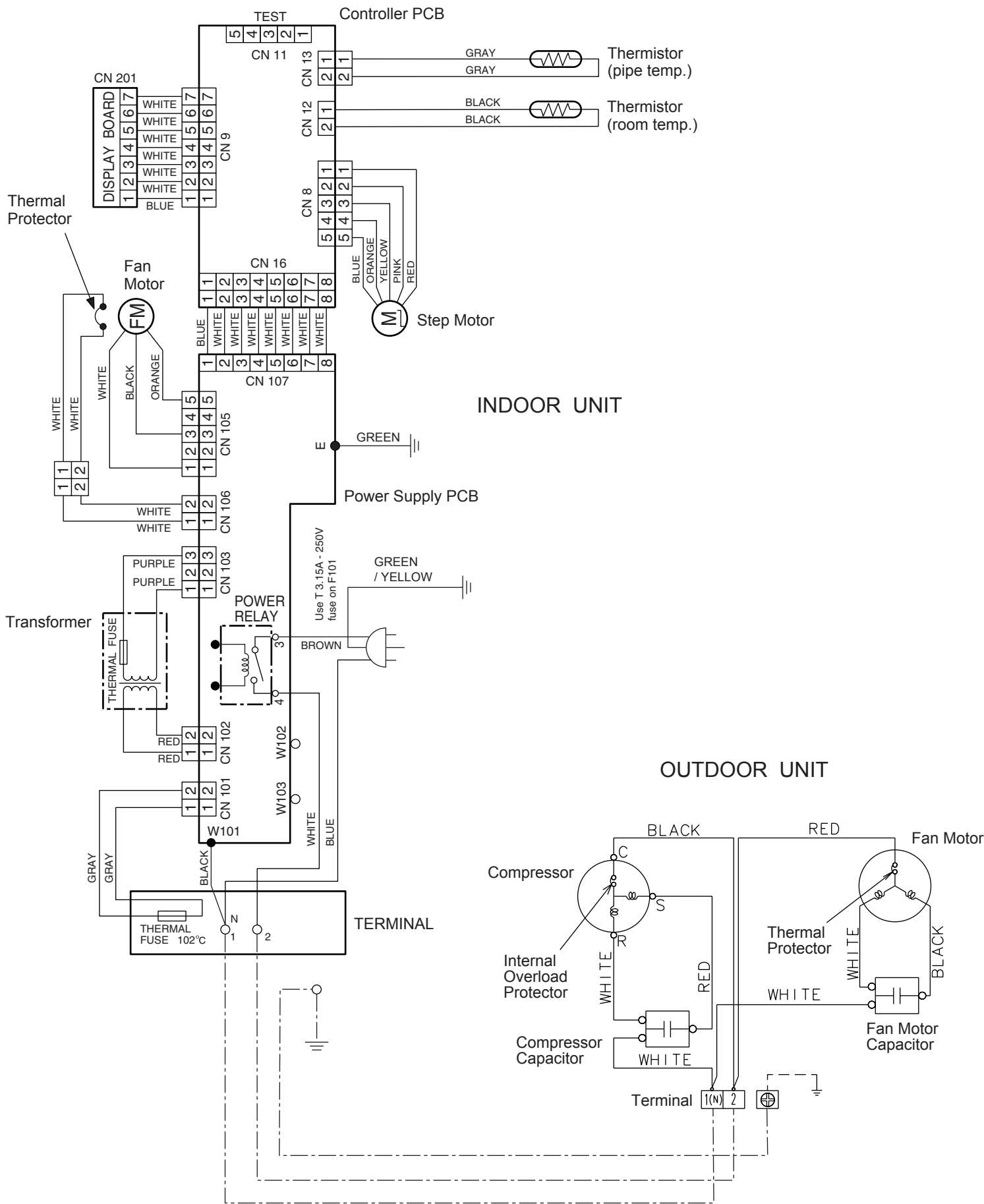


Models : ASY17USBQ / AOY17UNBK
ASY17USCQ / AOY17UNBN

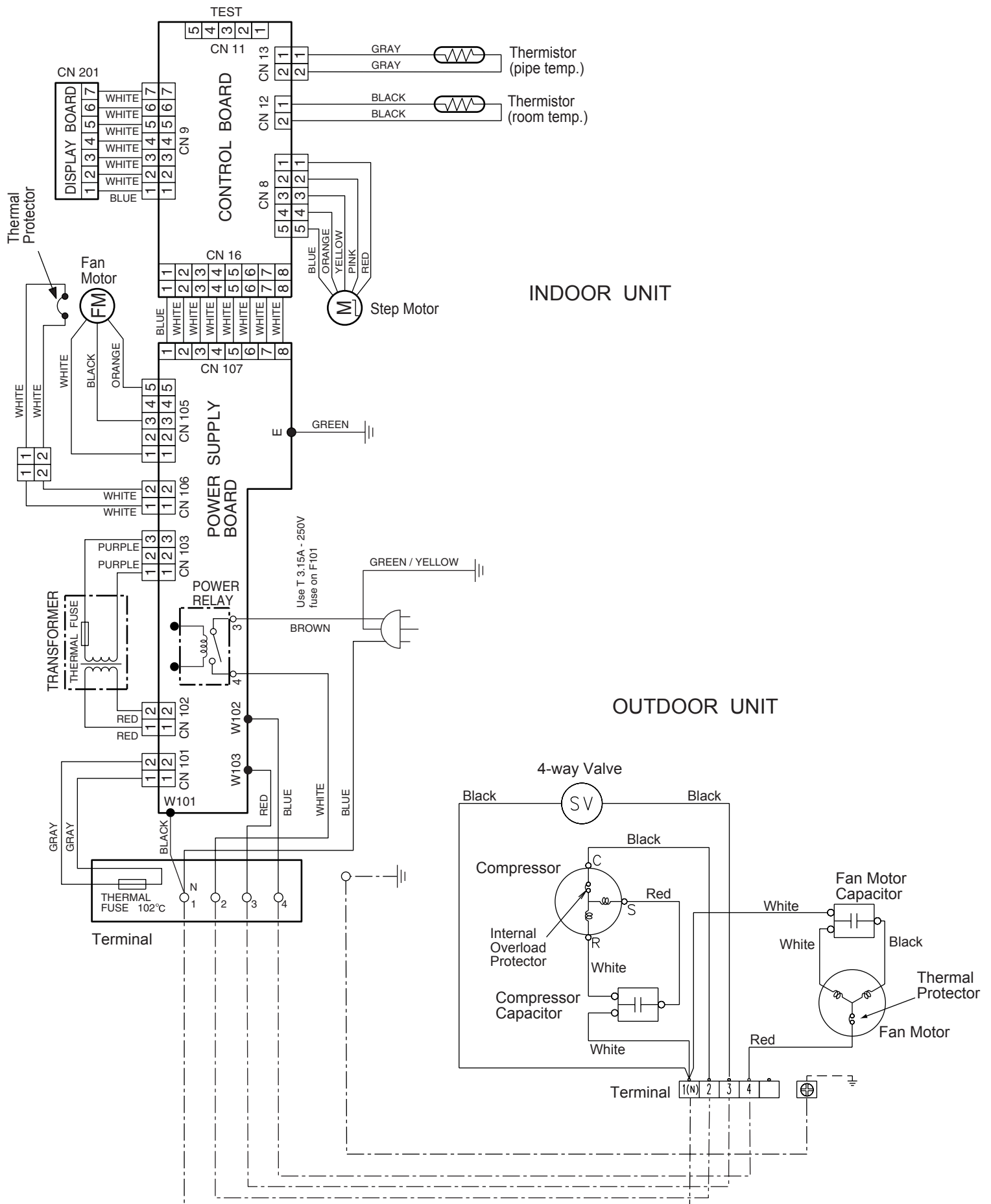


CIRCUIT DIAGRAM

Models : ASY17FSBQ / AOY17FNBK
ASY17FSCQ / AOY17FNBN



**Models : ASY17USBQ / AOY17UNBK
ASY17USCQ / AOY17UNBN**



INDOOR PCB CIRCUIT DIAGRAM

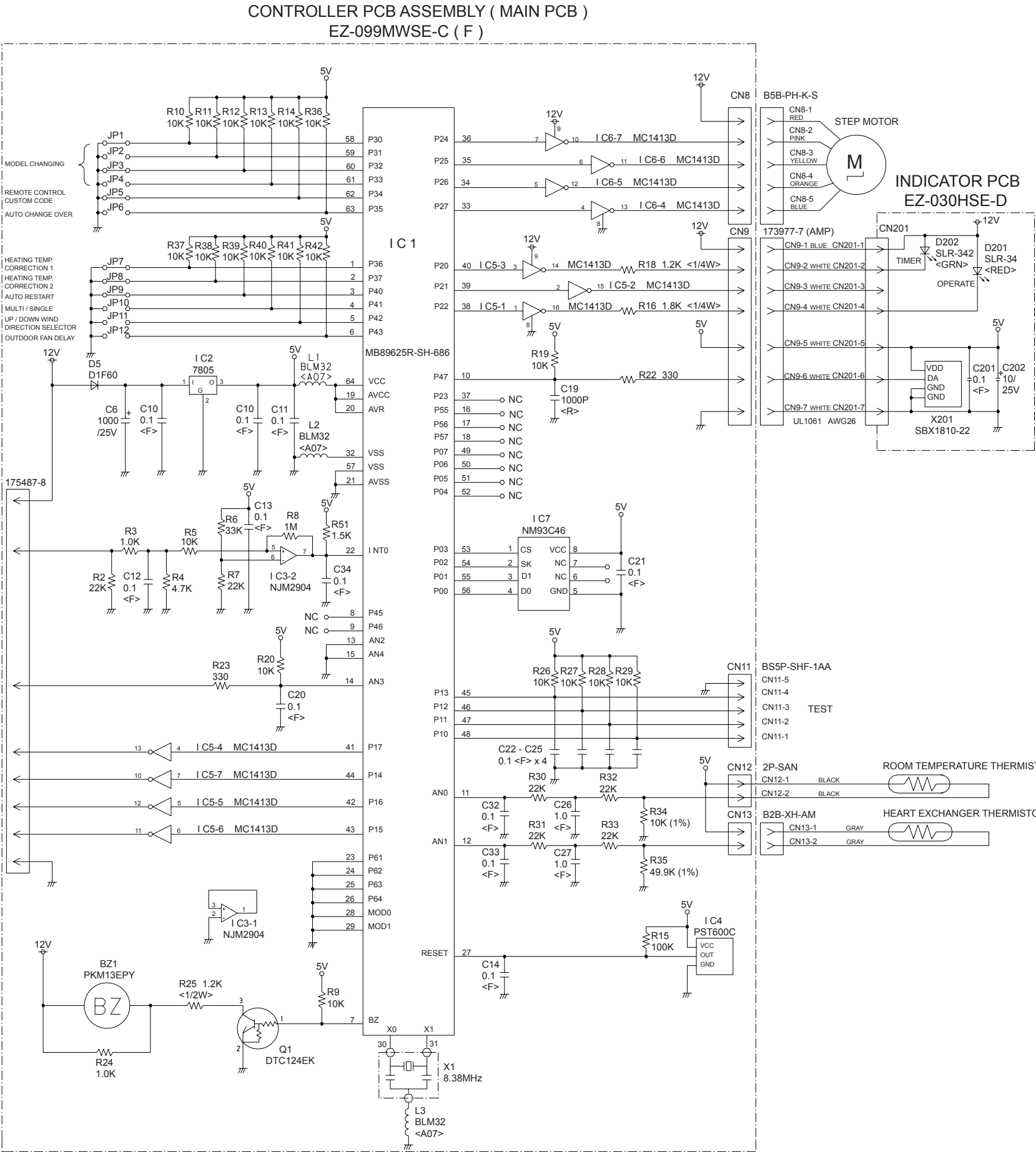
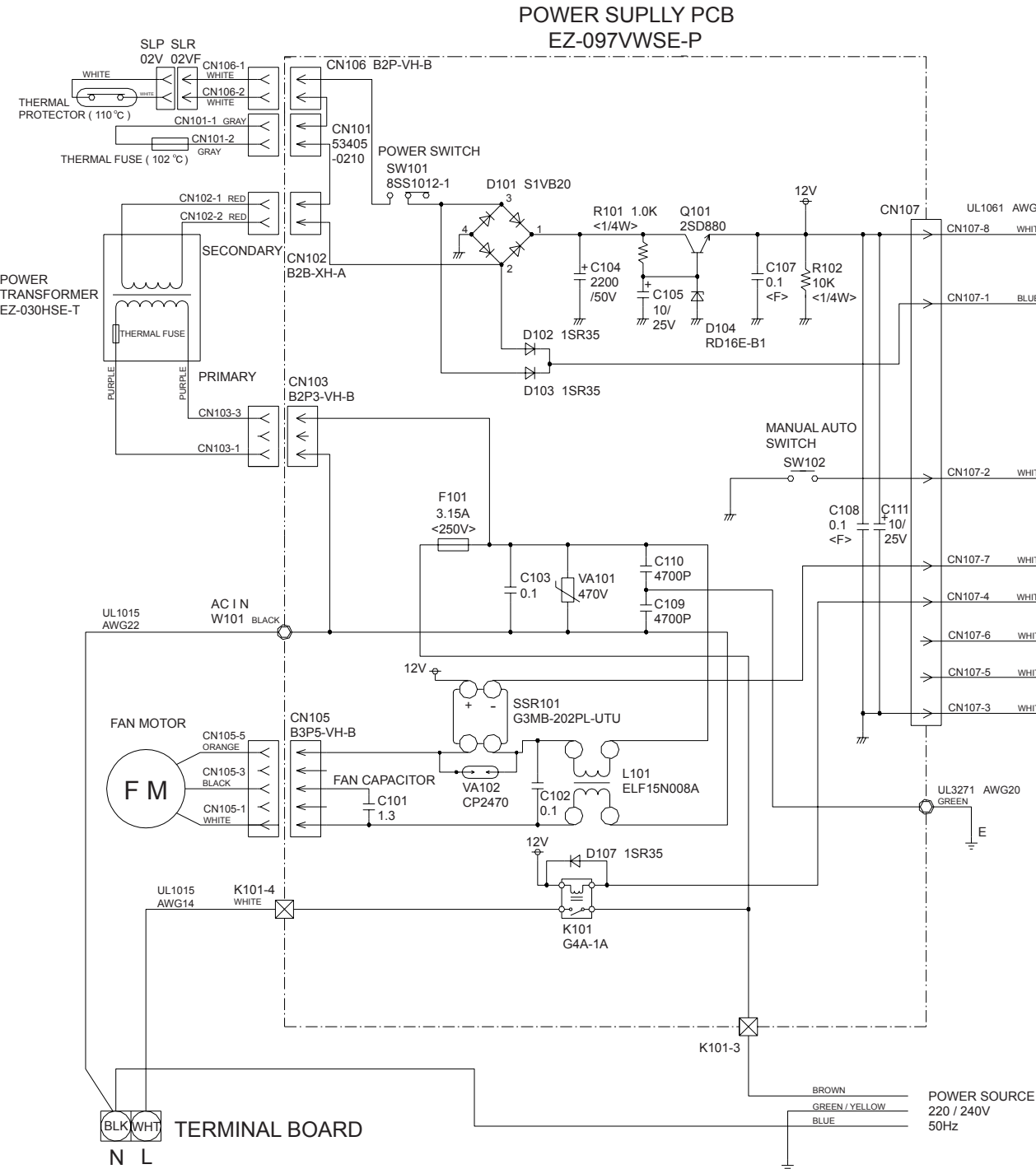
Models :
ASY17FSBQ
ASY17FSCQ

Jumper wire configurations

Switch	Function	ON/Linked	OFF/Open
JP 1/2/3/4	Model change over	(Depends on model)	
JP5	Custom code	A	B
JP6	Auto change-over	enable	disable
JP-7/8	Heating compensation	(See table 3)	
JP9	Auto restart	enable	disable
JP10	Multi/single	(not in use)	(not in use)
JP11	Up-Down airflow flap	(not in use)	(not in use)
JP12	Outdoor fan delay	(not in use)	(not in use)

Table 3

ON / ON	+4
ON / OFF	0
OFF / ON	-2
OFF / OFF	+2



Models :
ASY17USBQ
ASY17USCQ

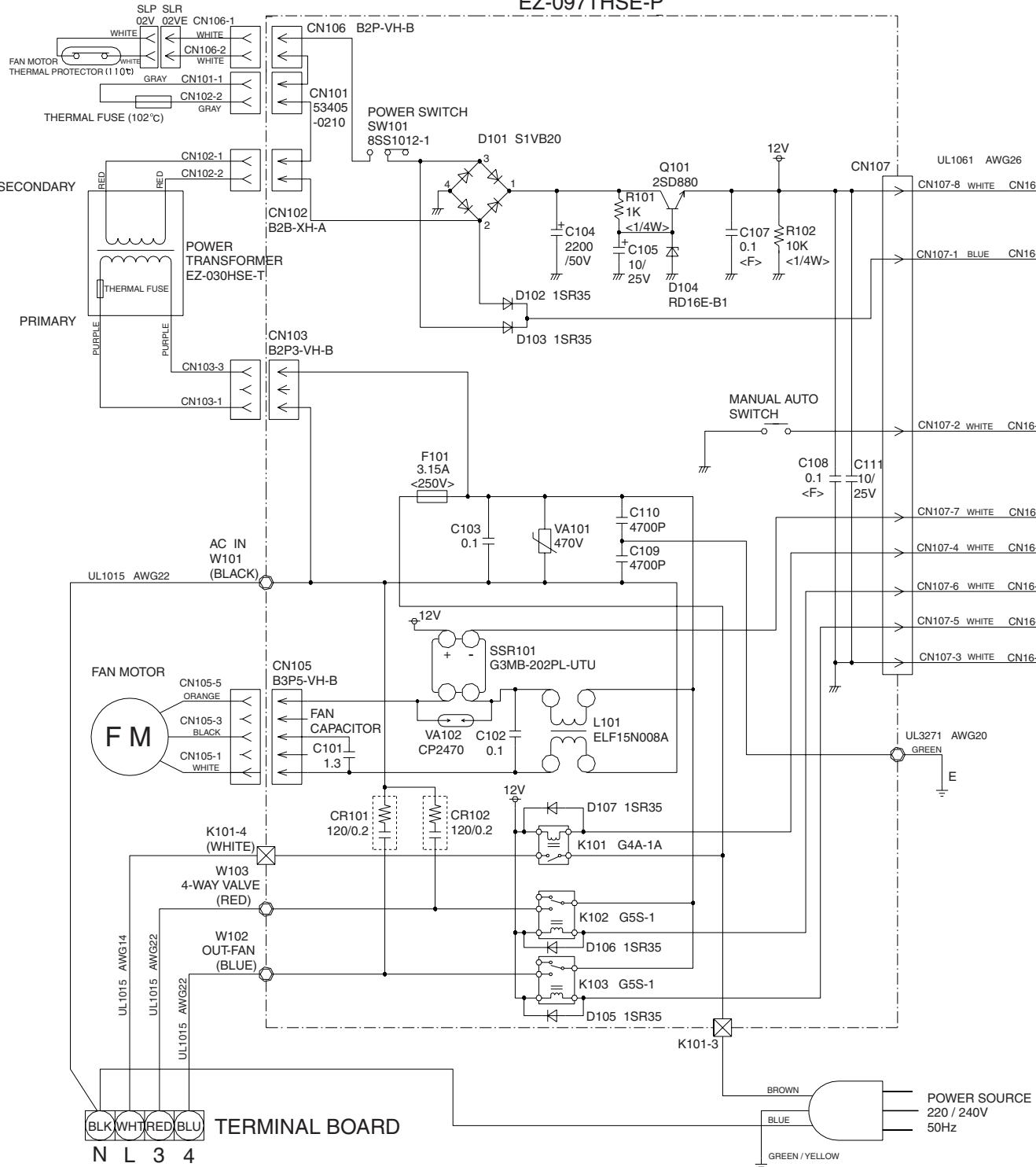
Jumper wire configurations

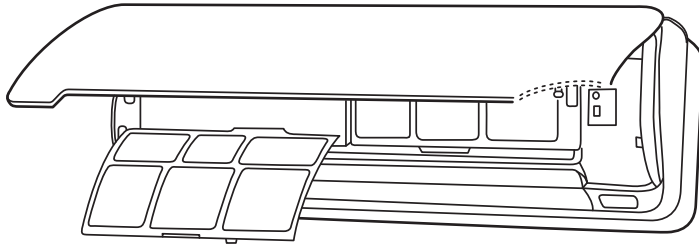
Switch	Function	ON/Linked	OFF/Open
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Table 3

ON / ON	+4
ON / OFF	0
OFF / ON	-2
OFF / OFF	+2

POWER SUPPLY PCB
EZ-097THSE-P





FAILURE DETECTION

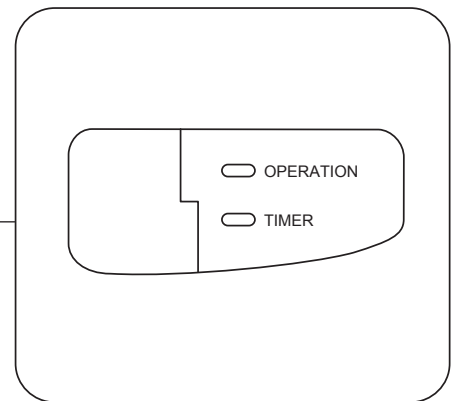
Room thermistor failure

Operation lamp : 3 flash

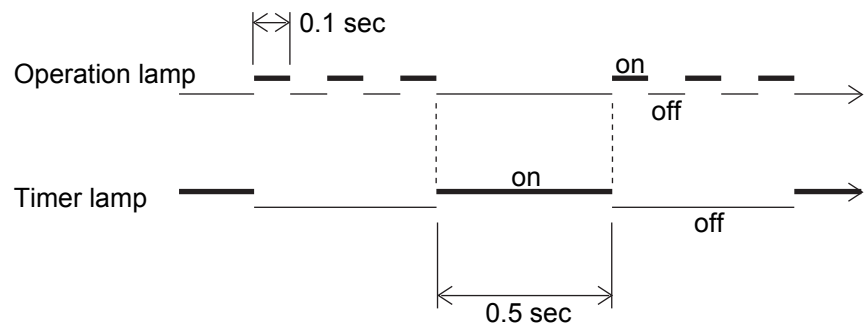
Indoor unit

heat exchanger thermistor failure

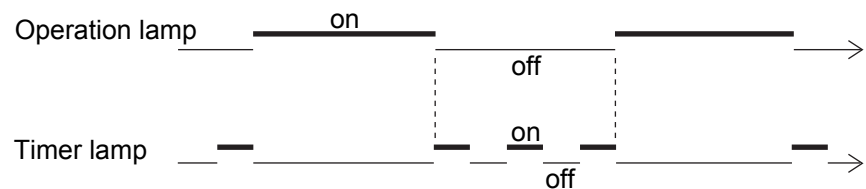
Timer lamp : 3 flash



Room thermistor failure

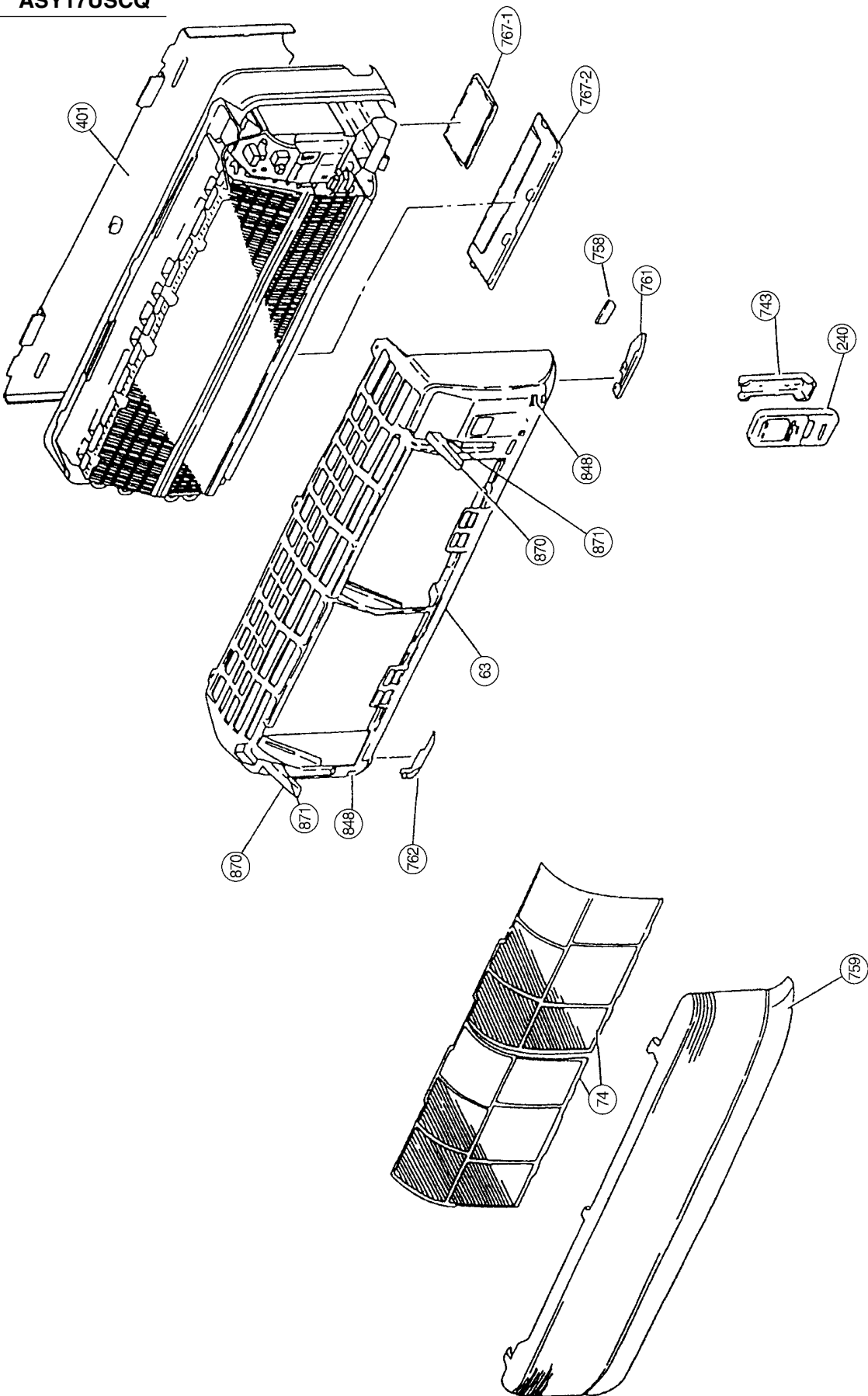


Indoor unit
heat exchanger thermistor failure

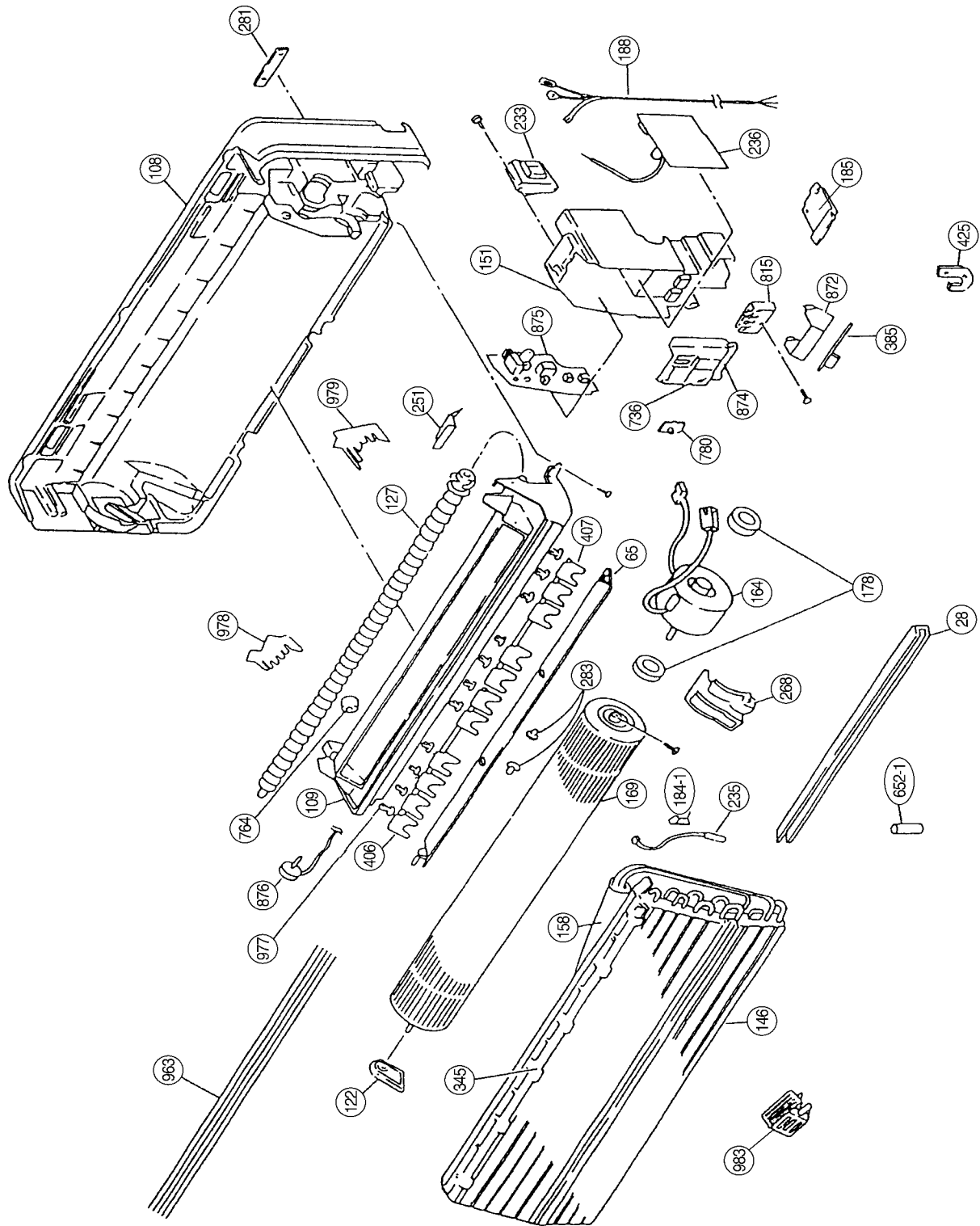


DISASSEMBLY ILLUSTRATION

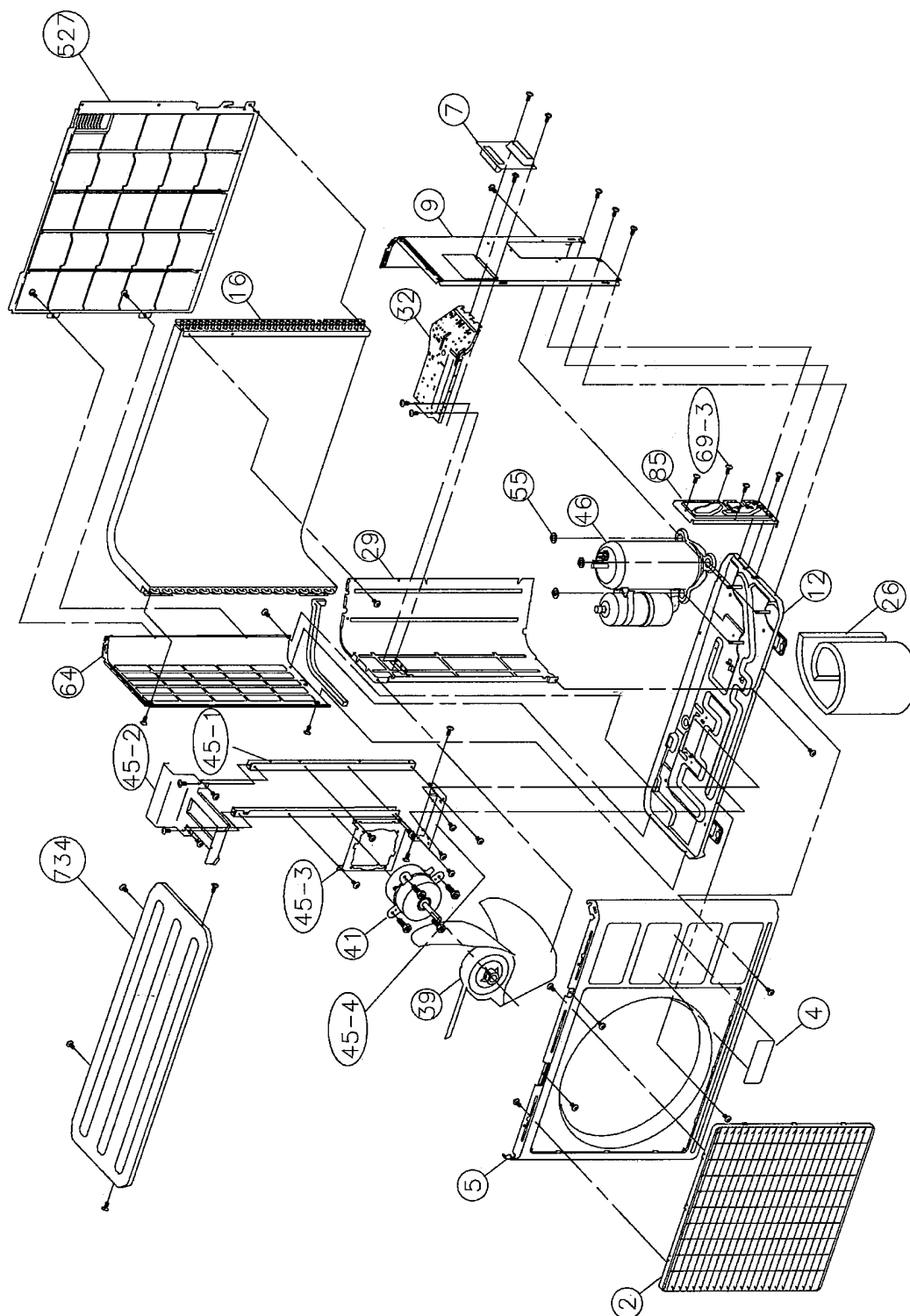
Models : ASY17FSBQ
ASY17USBQ
ASY17FSCQ
ASY17USCQ



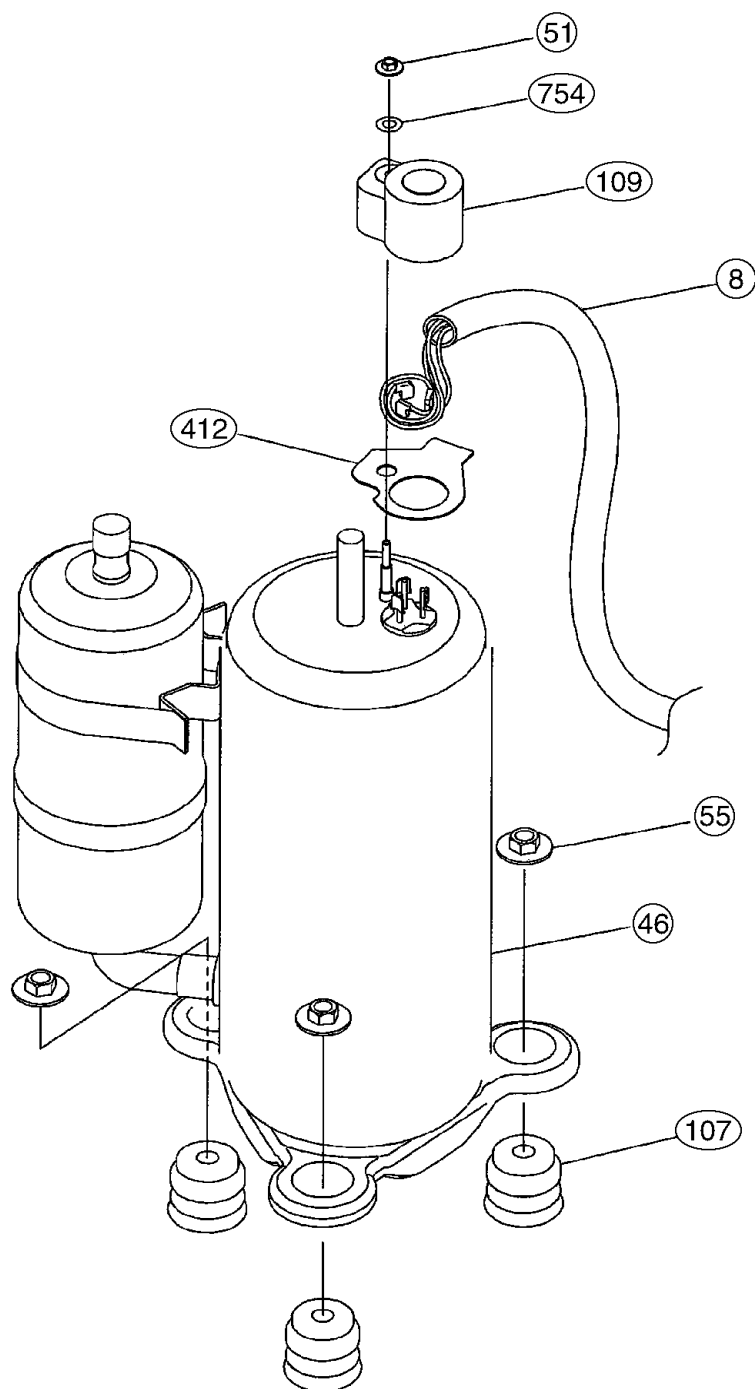
Models : ASY17FSBQ
ASY17USBQ
ASY17FSCQ
ASY17USCQ



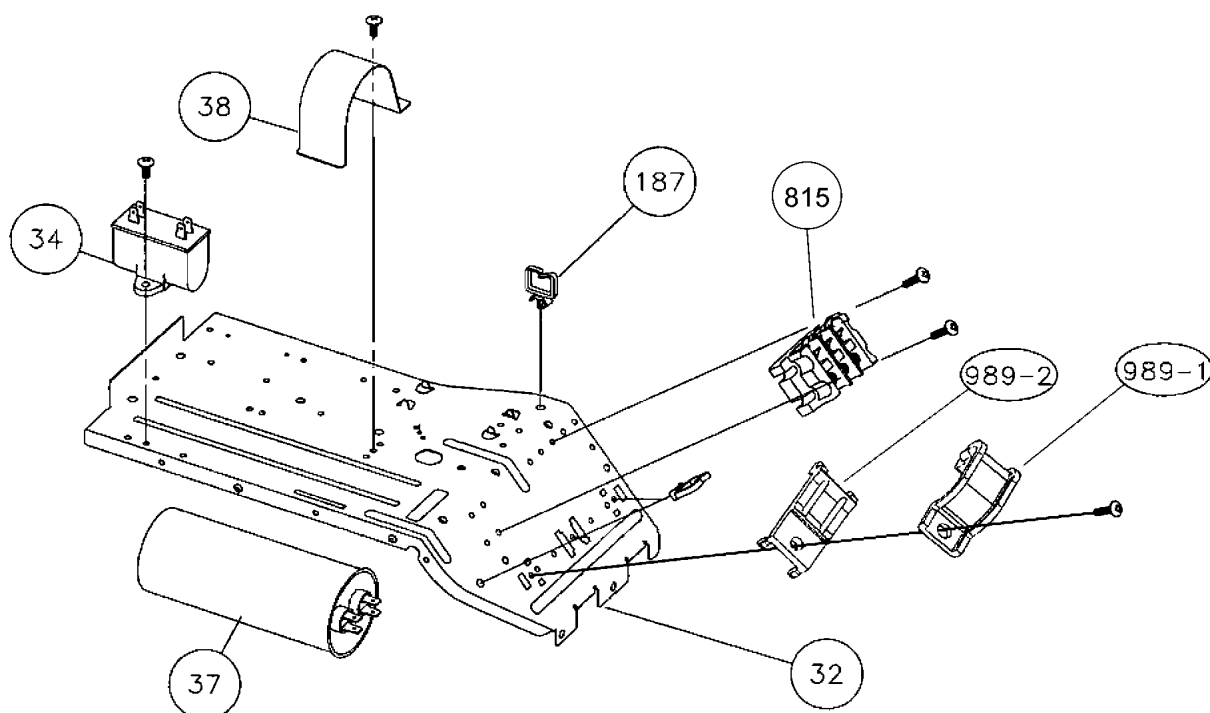
Models : AOY17FNBK
AOY17UNBK
AOY17FNBN
AOY17UNBN



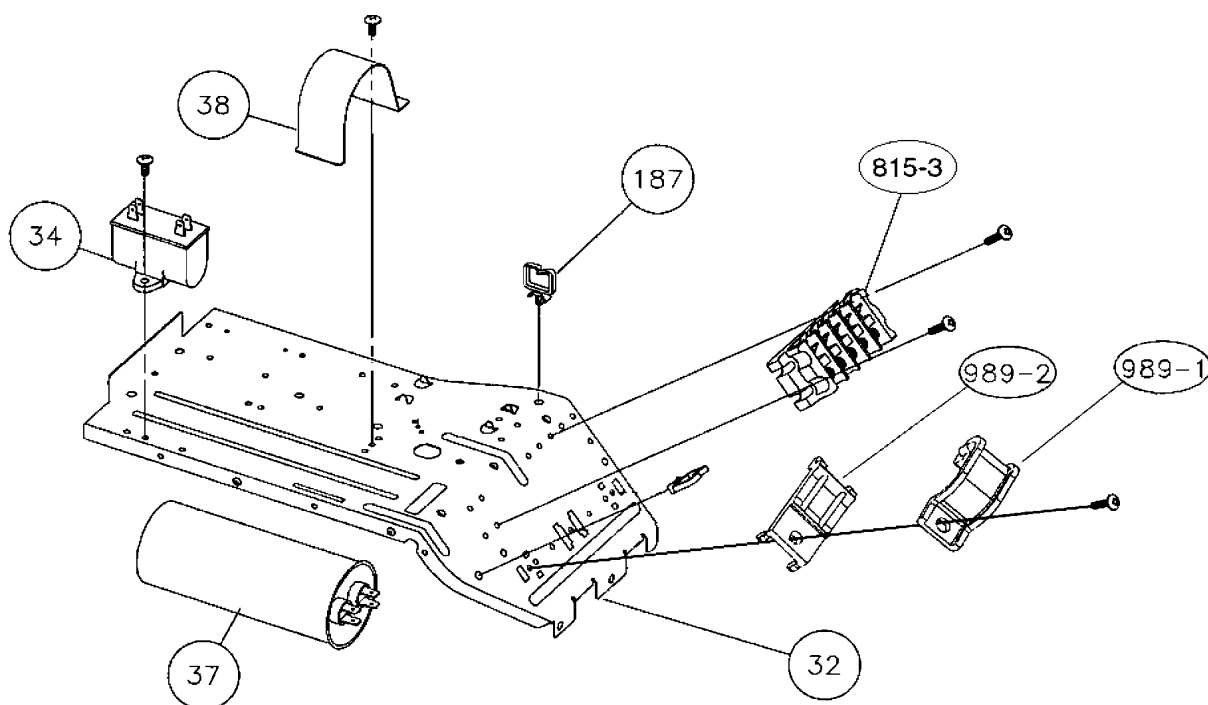
Models : AOY17FNBK
AOY17UNBK
AOY17FNBN
AOY17UNBN



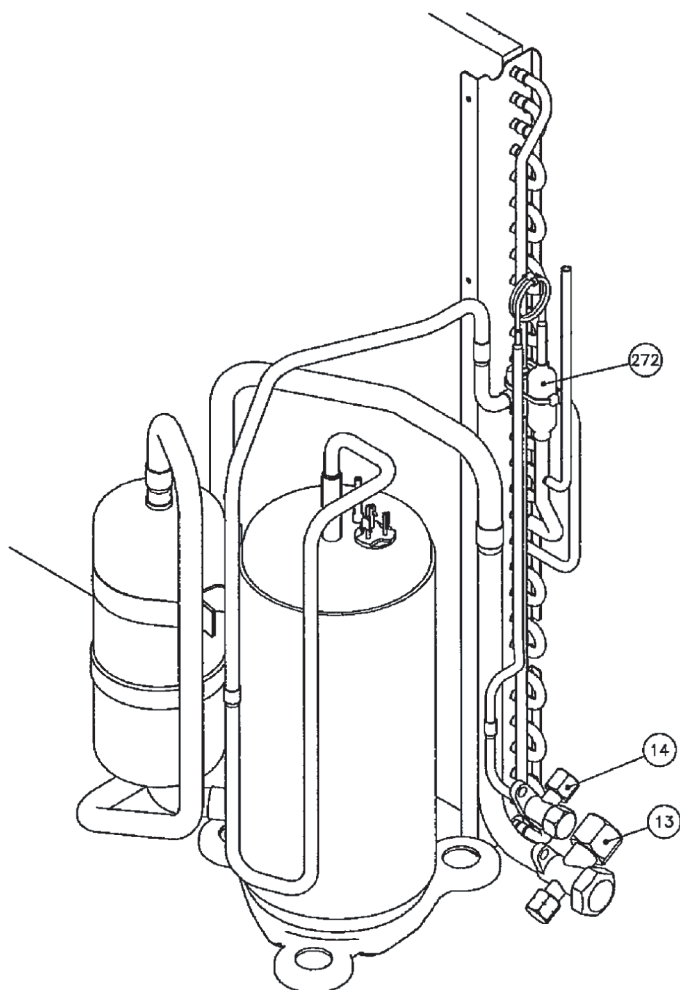
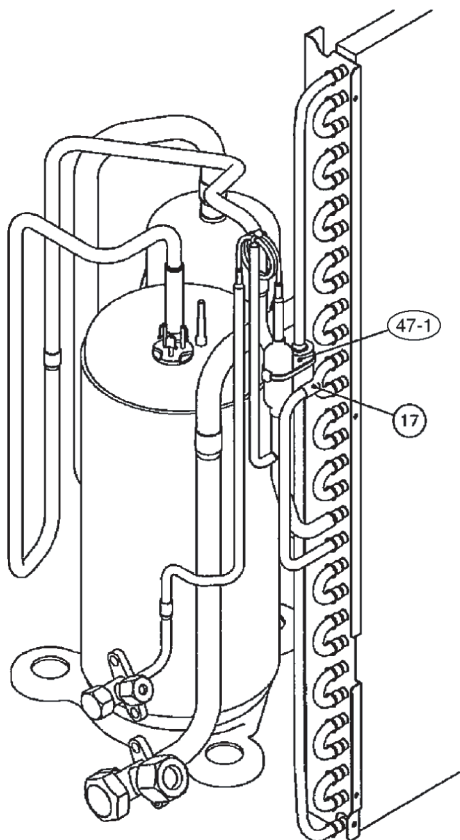
Models : AOY17FNBK
AOY17FNBN



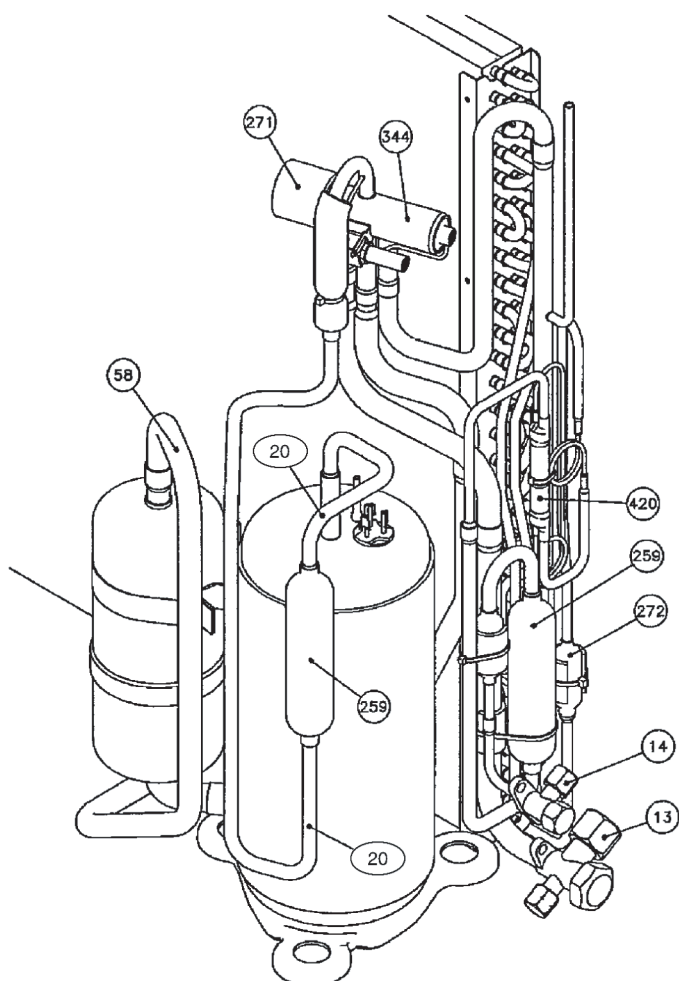
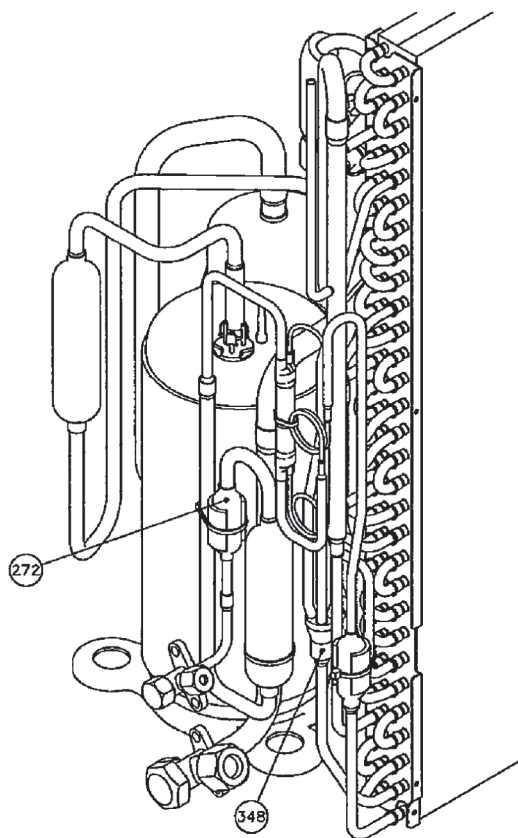
Models : AOY17UNBK
AOY17UNBN



Models : AOY17FNBK
AOY17FNBN



Models : AOY17UNBK
AOY17UNBN



PARTS LIST

INDOOR UNIT

Ref.	Description	Part parts	
		ASY17FSBQ ASY17FSCQ	ASY17USBQ ASY17USCQ
28	Air Seal	9304111016	9304111016
63	Front Panel Assy	9354645158	9354645158
65	Louver Assy	9354646049	9354646049
74	Filter	9304097013	9304097013
108	Base	9304107033	9304107033
109	Casing	9304108016	9304108016
122	Bearing-B Assy	9304470007	9304470007
127	Drain Hose Assy	9368754013	9368754013
146	Evaporator Assy	9363335002	9363335002
151	Control Box	9304092001	9304092001
158	Connecting Pipe Assy	9363632002	9363632002
164	Fan Motor	9600432013	9600432013
169	Cross-flow Fan Assy	9306327002	9306327002
178	Motor Cushion-G	9304669005	9304669005
184-1	Thermostat Spring-A	313728262708	313728262708
185	Wire Clamp	9356959000	9356959000
188	Power Cord Assy	9906072018	9906072018
233	Power Transformer	9701803026	9701803026
235	Thermistor Assy-Pipe	9702325015	9702325015
236	Controller PCB Assy	9704341044	9704341204
240	Remote Control	9356602029	9356602036
251	Hose Clamp	9304077008	9304077008
268	Motor Cover-B	9304231004	9304231004
281	Clamp Metal (Pipe)	9304242000	9304242000
283	Bushing-A	9303529010	9303529010
345	Filter Guide	9304110019	9304110019
385	Indicator PCB Assy	9701119219	9701119219
401	Wall Hook Bracket	9304093008	9304093008
406	Louver-L Assy	9354644014	9354644014
407	Louver-R Assy	9354643017	9354643017
425	Earth Terminal	9357852003	9357852003
652-1	Thermistor Holder Pipe	313714262805	313714262805
736	Operation Panel	9354230002	9354230002
743	Remote Control Holder	9305642014	9305642014
758	Decoration Plate-A	9354223011	9354223011
759	Intake Grille-B	9357856018	9357856018
761	Side Cover-R	9303518052	9303518052
762	Side Cover-L	9303520093	9303520093
764	Drain Cap Assy	9304150008	9304150008
767-1	Bottom Cover-A	9303536056	9303536056
767-2	Bottom Cover-B	9303537053	9303537053
780	Key Top (Slide Switch)	9303526002	9303526002
815	Terminal-2P	9701955022	-----
815-3	Terminal-4P	-----	9701955039
848	Catcher	9306545000	9306545000
870	Arm	9303525005	9303525005
871	Arm Spring	9304377009	9304377009
872	Indicator Case	9303631003	9303631003
874	Control Box Cover	9304094005	9304094005
875	Power Supply PCB Assy	9702451073	9702451066
876	Step Motor	9304535003	9304535003
963	Fan Guard	9356881011	9356881011
977	Louver Clip, Plastic	9356880014	9356880014
978	Wire Bracket-L	9356878011	9356878011
979	Wire Bracket-R	9356877014	9356877014
983	Thermostat Protective Cover	9356882001	9356882001

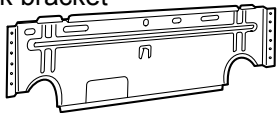
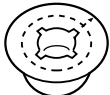
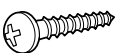
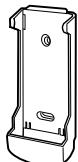
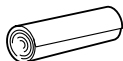
OUTDOOR UNIT

Ref.	Description	Part number	
		AOY17FNBK AOY17FNBN	
2	Fan Guard	9371187013	
4	Emblem-Rear	9351355005	
5	Front Panel Ptd	9371924014	
7	Connector Cover (Cabinet)	9366398004	
8	Wire Assy (Comp)	9372334010	
9	Side Panel R	9371927015	
12	Base Assy	9371920054	
13	3-Way Valve Assy	9372205112	
14	2-Way Valve Assy	9372204016	
16	Condenser Assy	9372181041	
17	U-Pipe Y	9372638019	
26	Compressor Cover	9372327012	
29	Separate Wall	9371933016	
32	Control Box	9371935010	
34	Capacitor, Plastic	9900130022	
37	Running Capacitor	9703107122	
38	Capacitor Clamp	9351770013	
39	Propeller Fan Assy	9366378013	
41	Motor Induct	9601671022	
45-1	Motor Bracket	9371929019	
45-2	Motor Bracket-Top	9371931012	
45-3	Motor Bracket Center	9371930015	
45-4	Motor Bracket Bottom	9371932019	
46	Compressor Assy	9372558027	
47-1	Rubber (Discharge Pipe)	313194159807	
51	Special Nut M5	9300301015	
55	Special Nut M8	9355091008	
64	Side Panel L Ptd	9371926018	
69-3	Bolt, Hex. Socket	301210060360	
85	Valve Plate Ptd	9371928012	
107	Rubber Seat-A	9351049010	
109	Termminal Cover (Comp)	9371511016	
187	Clip (Cable)	9352715006	
272	Strainer	9369287008	
412	Cover Gasket (Comp.)	9371512013	
420	Capillary Assy	9372197066	
527	Protectiive Net	9371934013	
734	Top Plate	9371925011	
754	Terminal Gask. Washer	9351053017	
815	Terminal-3P	9900203016	
982-1	Cord Clamp	9356857009	
982-2	Cord Clamp-C	9359677000	

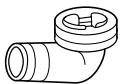
Ref.	Description	Part number	
		AOY17UNBK AOY17UNBN	
2	Fan Guard	9371187013	
4	Emblem-Rear	9351355005	
5	Front Panel Ptd	9371924014	
7	Connector Cover (Cabinet)	9366398004	
8	Wire Assy (Comp)	9314792007	
9	Side Panel R	9371927015	
12	Base Assy	9371920054	
13	3-Way Valve Assy	9314678011	
14	2-Way Valve Assy	9314681011	
16	Condenser Assy	9314475016	
20	Discharge Pipe Assy	9372318119	
26	Compressor Cover	9372327012	
29	Separate Wall	9371933016	
32	Control Box	9371935010	
34	Capacitor, Plastic	9900130022	
37	Running Capacitor	9703107122	
38	Capacitor Clamp Metal	9351770013	
39	Propeller Fan Assy	9366378013	
41	Motor Induct	9601671022	
45-1	Motor Bracket	9371929019	
45-2	Motor Bracket-Top	9371931012	
45-3	Motor Bracket Ctr	9371930015	
45-4	Motor Bracket Bottom	9371932019	
46	Compressor Assy	9372558027	
51	Special Nut M5	9300301015	
55	Special Nut M8	9355091008	
58	Suction Pipe Assy	9372175026	
64	Side Panel L	9371926018	
69-3	Bolt, Hex. Socket	301210060360	
85	Valve Plate	9371928012	
107	Rubber Seat-A	9351049010	
109	Teminal Cover (Comp)	9371511016	
187	Clip (Cable)	9352715006	
199	Br Sheet	9363708059	
259	Muffler	9372369012	
271	4-Way Valve Rubber	313728251908	
272	Strainer	9369287008	
343	Solenoid	9900165017	
344	4-Way Valve	9970036019	
348	Distributor	9368859008	
412	Cover Gasket (Comp.)	9371512013	
527	Protectiive Net	9371934013	
734	Top Panel	9371925011	
420	Capillary Assy	9372197042	
754	Terminal Gask. Washer	9351053017	
815-3	Terminal-5P	9900203023	
982-1	Cord Clamp	9356857009	
982-2	Cord Clamp-C	9359677000	

STANDARD ACCESSORIES

INDOOR UNIT

Name and Shape	Part number	
	ASY17FSBQ ASY17FSCQ	ASY17USBQ ASY17USCQ
Wall hook bracket 	9304093008	9304093008
Wall cap 	313714296205	313714296205
Remote control 	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) ($\phi 3 \times 12$) 	0700019036	0700019036
Flange screw ($\phi 4 \times 10$) 	9305114009	9305114009
Remote control holder 	9305642014	9305642014
Cloth tape 	9308117007	9308117007
Seal-A 	9304536000	9304536000

OUTDOOR UNIT

Name and Shape	Part number	
	AOY17FNBK AOY17FNBN	AOY17UNBK AOY17UNBN
Drain pipe (Including drain packing) 	-----	9303029015
Drain cap 	-----	313166024302

