

SPLIT TYPE
ROOM AIR CONDITIONER
FLOOR CONSOLE /
UNDER CEILING
DUAL TYPE

SERVICE MANUAL



Indoor unit	Outdoor unit
ABY14FBBJ	AOY14FSDJ
ABY14UBBJ	AOY14USDJL

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SPECIFICATIONS

TYPE	Cool	Cool and Heat
INDOOR UNIT	ABY14FBBJ	ABY14UBBJ
OUTDOOR UNIT	AOY14FSDJ	AOY14USDJL
COOLING CAPACITY	4.20 kW	4.00 kW
HEATING CAPACITY	---	4.70 kW

ELECTRICAL DATA

POWER SOURCE	230 v	230 v
FREQUENCY	50 Hz	50 Hz
RUNNING CURRENT	Cooling	6.3 A
	Heating	6.0 A
INPUT WATTS	Cooling	1.39 kW
	Heating	1.35 kW
E.E.R.	Cooling	3.02 kW/kW
	Heating	3.48 kW/kW
MOISTURE REMOVAL	1.5 l/hr	1.5 l/hr
AIR CIRCULATION HIGH	640 m³/hr	640 m³/hr

COMPRESSOR

TYPE	Hermetic type, Deposit electrode condenser, 2 poles, Single phase, Induction motor, Rotary	
DISCRIMINATION	802 360 35(B)	
REFRIGERANT R410A	900 g	1,000 g

FAN MOTOR

POWER SOURCE	230 V		
INDOOR UNIT	Discrimination	MFA-14JTT	
	High speed	850 r.p.m.	
	Med speed	760 r.p.m.	
	Low speed	670 r.p.m.	
OUTDOOR UNIT	Discrimination	MFB-14VTT	MFB-14NTT
	High speed	740 r.p.m.	740 r.p.m.
	Low speed	---	440 r.p.m.

DIMENSIONS

INDOOR UNIT	H x W x D	199 x 990 x 655 mm
OUTDOOR UNIT	H x W x D	530 x 750 x 250 mm

WEIGHT

INDOOR UNIT	Gross / Net	37 kg / 28 kg
OUTDOOR UNIT	Gross / Net	37 kg / 35 kg

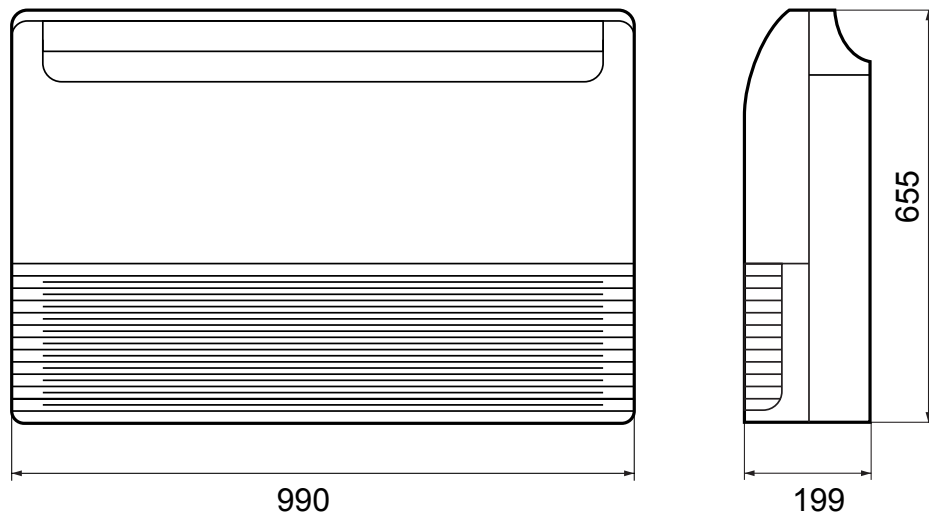
REFRIGERANT CHARGE (R410A)

Pipe Length	7.5 m (25 ft)	900 g (31.8oz)	1,000 g (35.3oz)
FULL CHARGE AMOUNT	10 m (33 ft)	938 g (33.1oz)	1,038 g (36.6oz)
	15 m (49 ft)	1,013 g (35.7oz)	1,113 g (39.3oz)
ADDITIONAL REFRIGERANT	15 g/m (0.53oz/ 3.3ft)		
MAXIMUM HEIGHT DIFFERENCE	8 m		

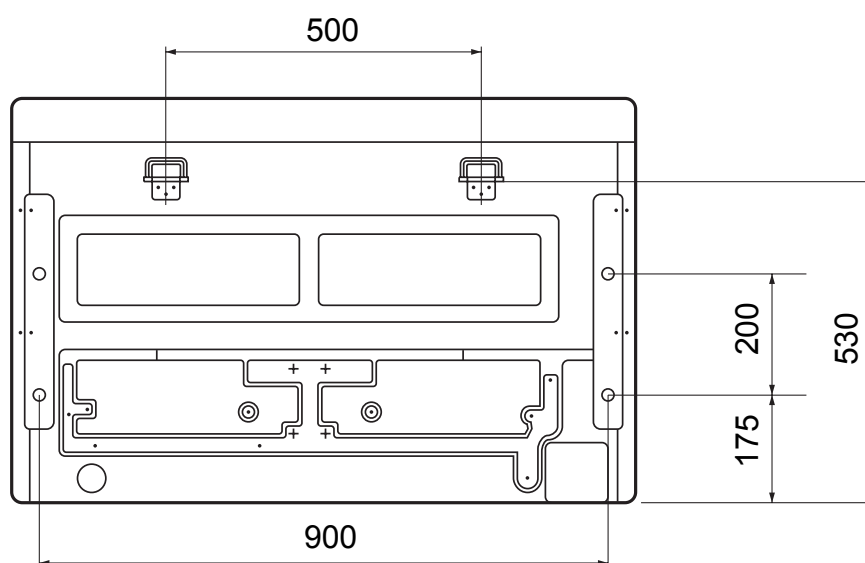
OUTLINE AND DIMENSIONS

INDOOR UNIT

Unit : mm

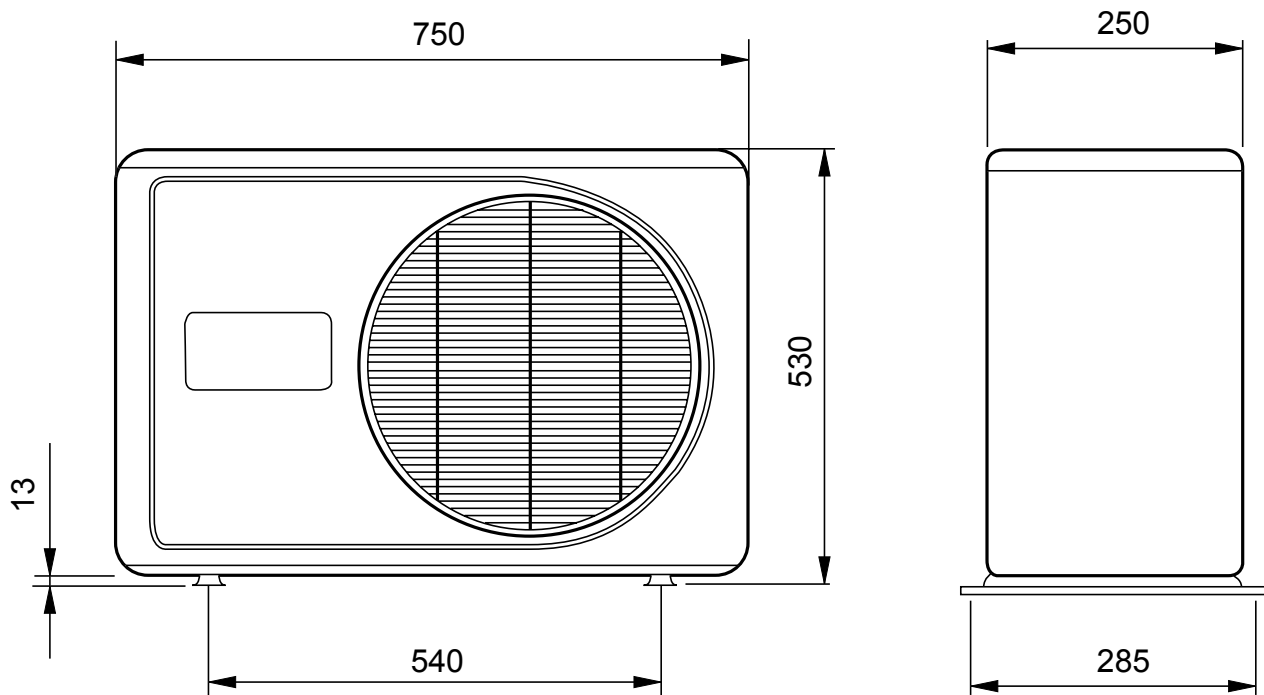


(rear view)



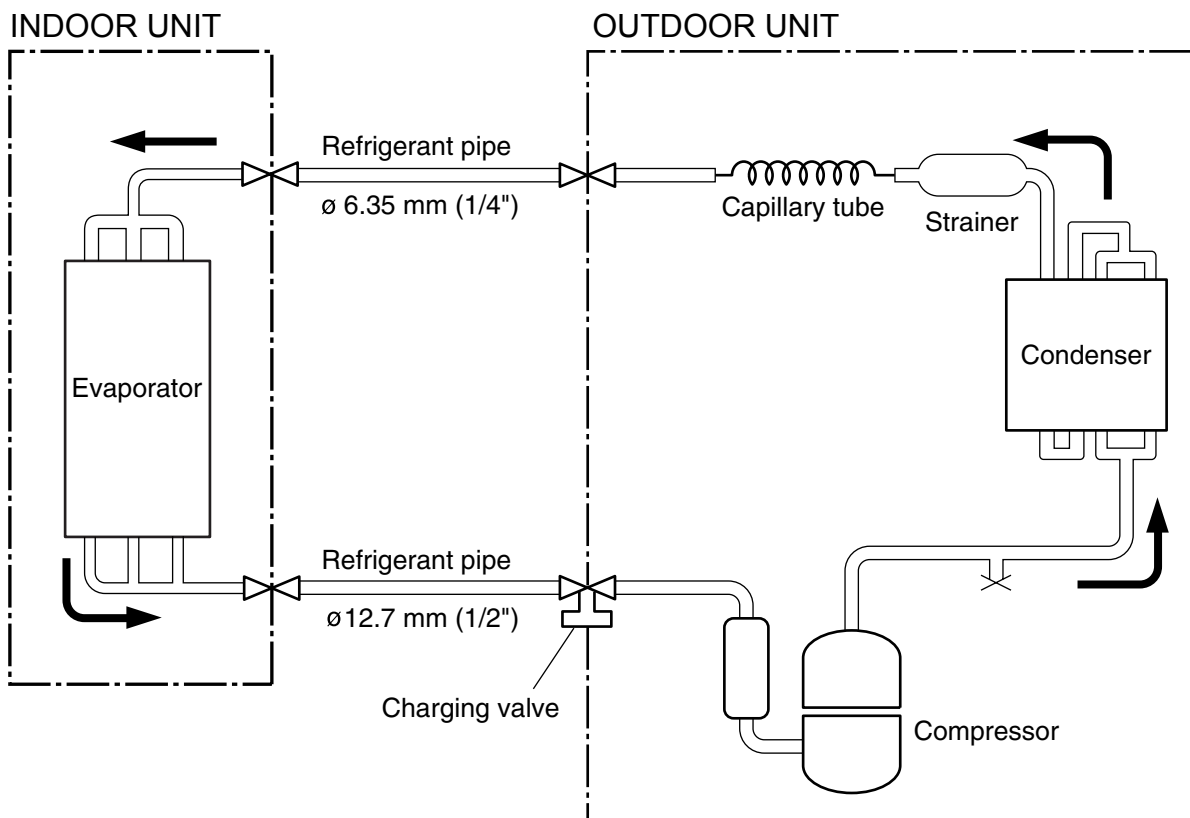
OUTDOOR UNIT

Unit : mm

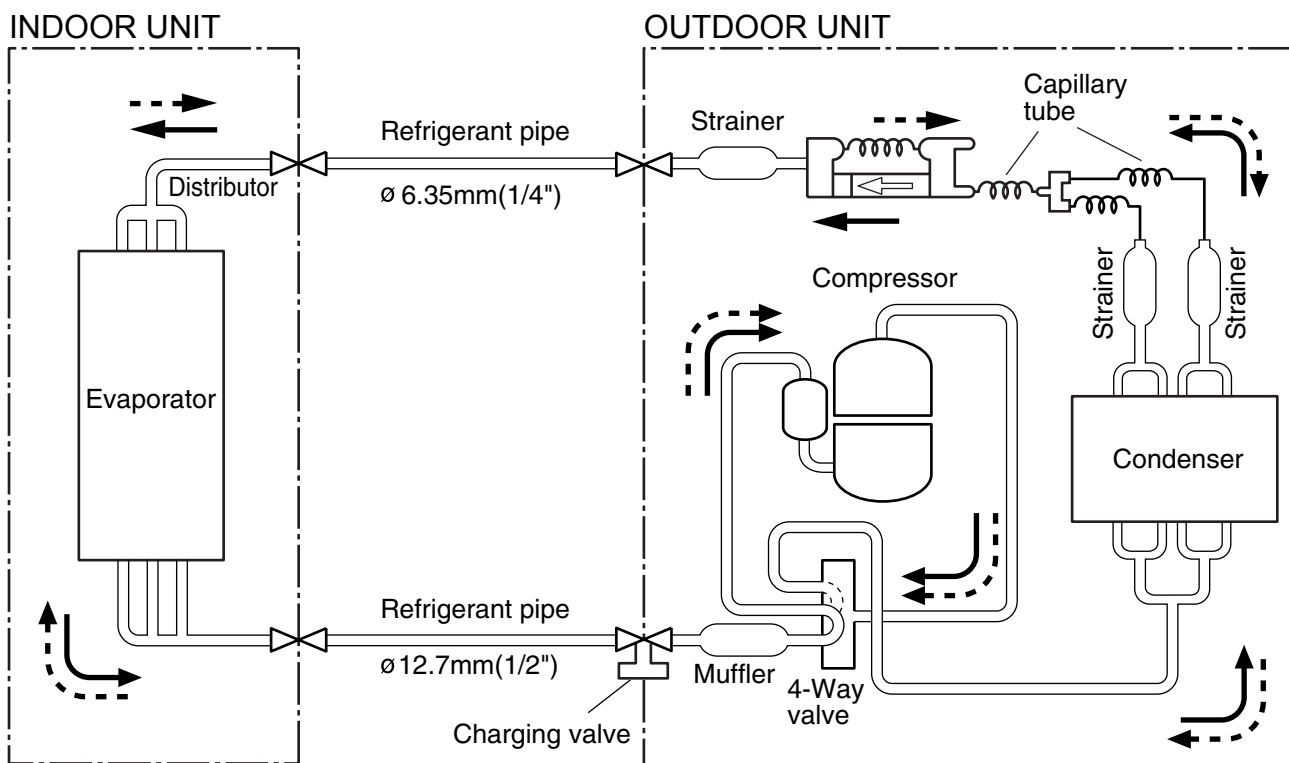


REFRIGERANT SYSTEM DIAGRAM

Models :
ABY14FBBJ / AOY14FSDJ



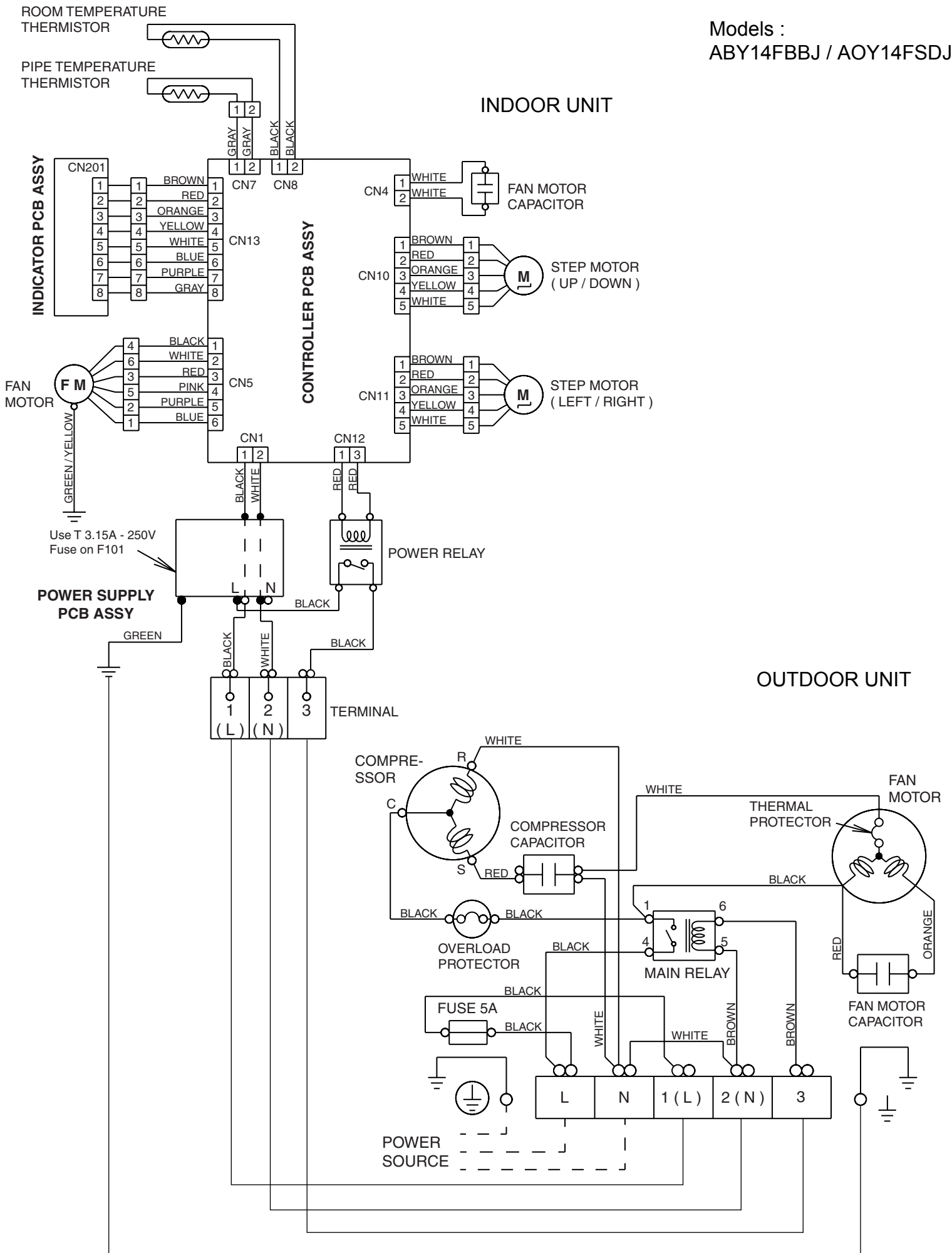
Models :
ABY14UBBJ / AOY14USDJL

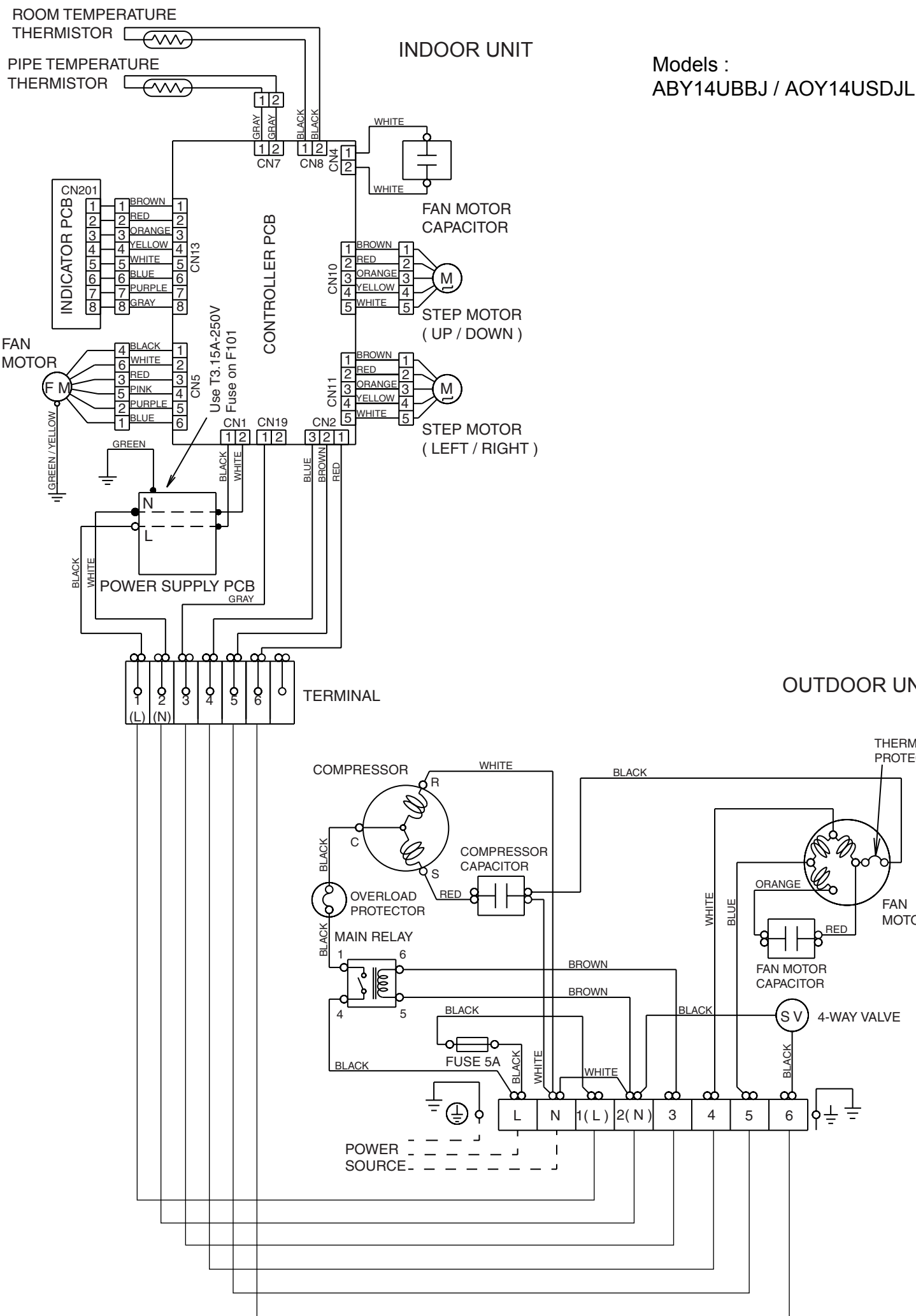


Refrigerant direction
 —————> Cooling
 - - - - -> Heating

CIRCUIT DIAGRAM

Models :
ABY14FBBJ / AOY14FSDJ

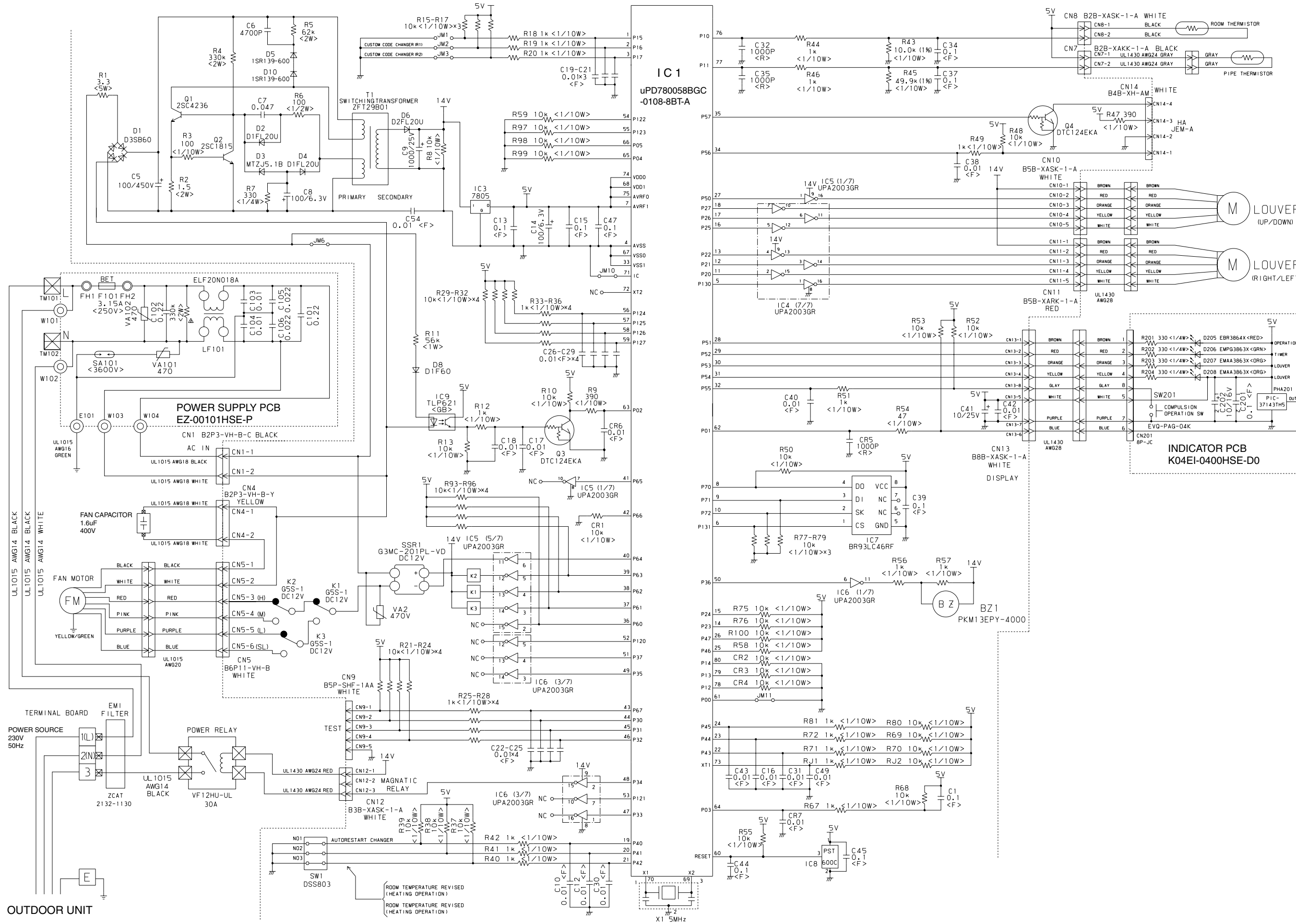




INDOOR PCB CIRCUIT DIAGRAM

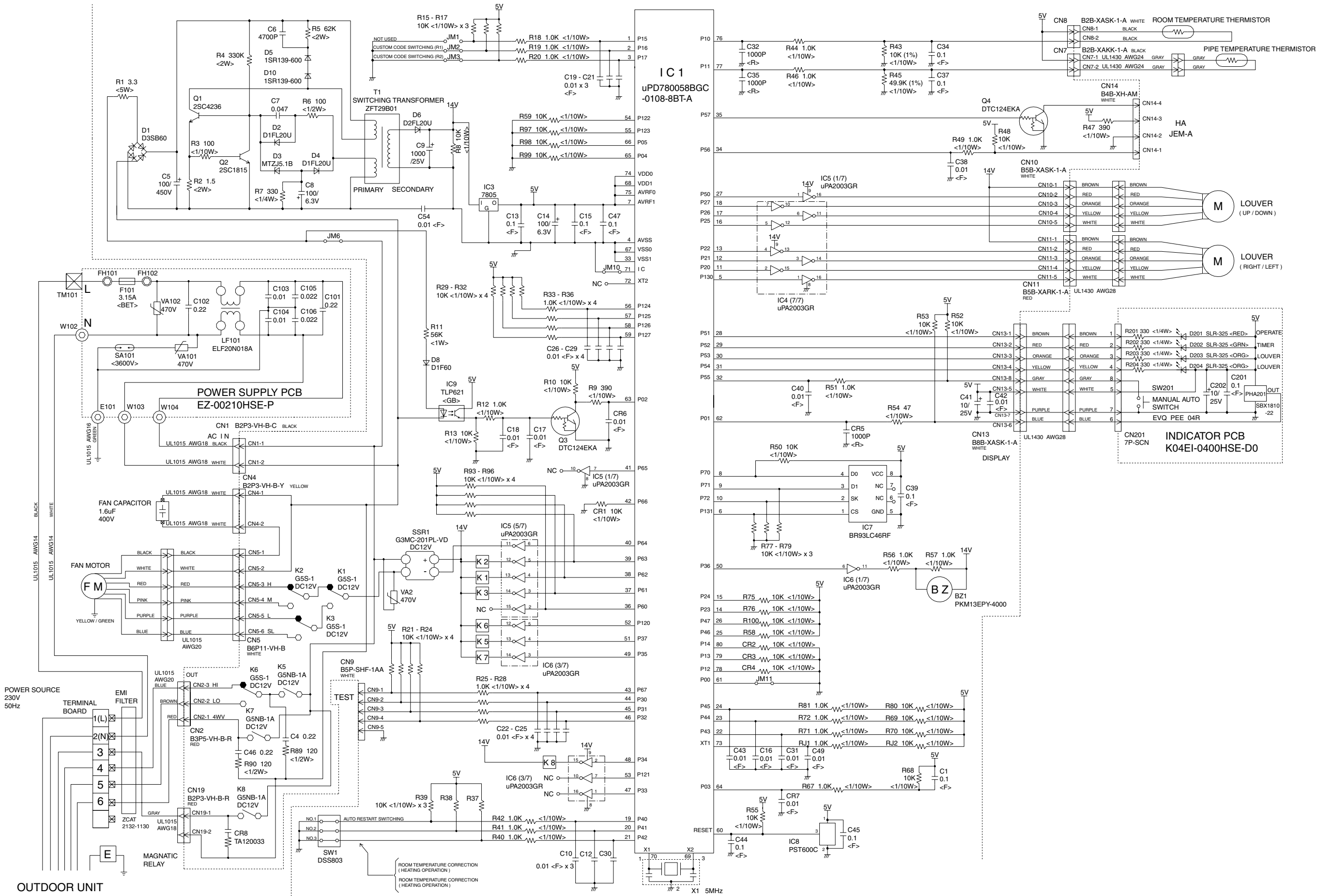
Model : ABY14FBBJ

CONTROLLER PCB ASSEMBLY (MAIN PCB)
EZ-001LWSE-C



Model : ABY14UBBJ

CONTROLLER PCB ASSEMBLY (MAIN PCB)
EZ-00312HSE-C



ERROR DISPLAY

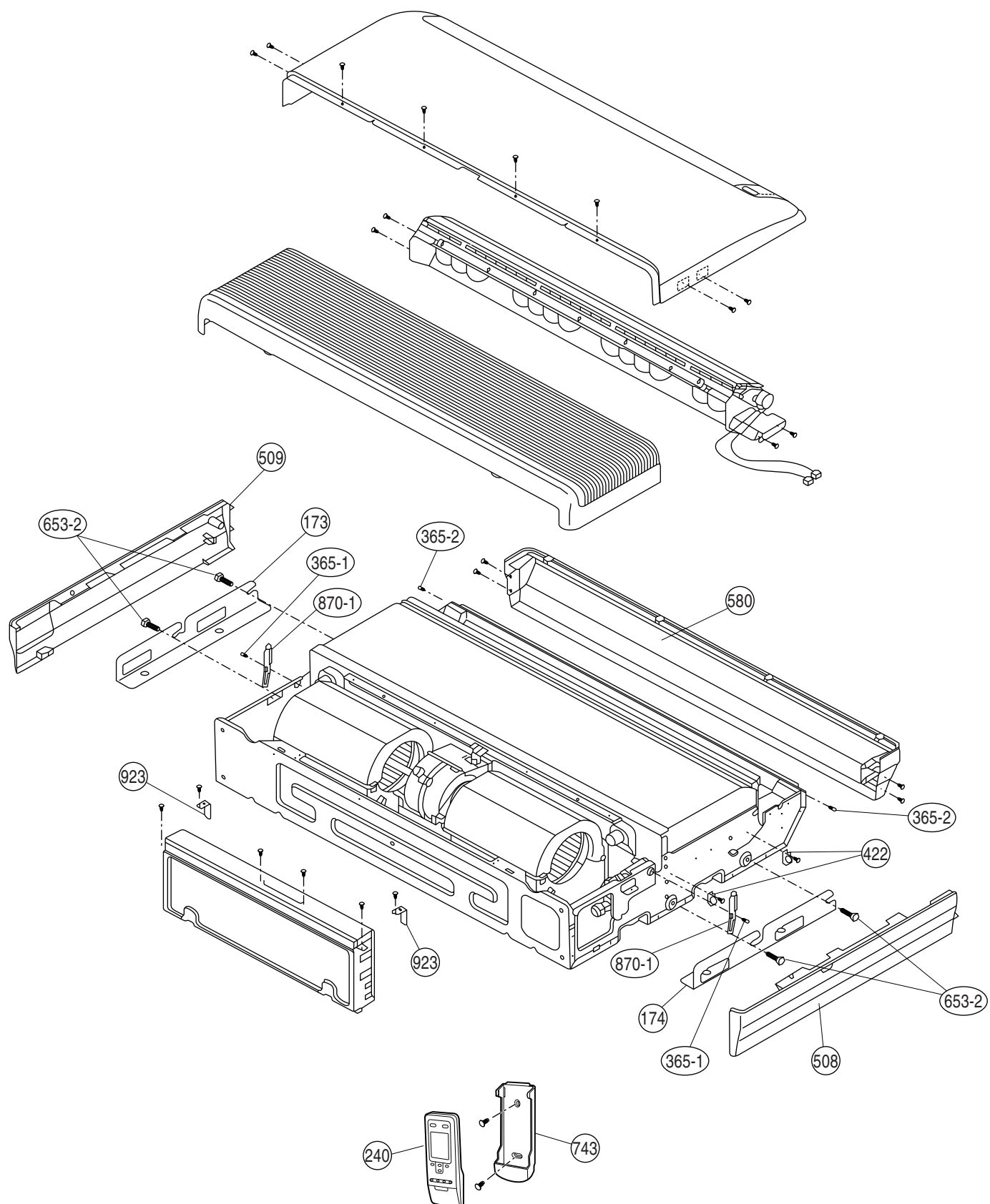
The OPERATION, TIMER and SWING lamps operate as follows according to the error contents.

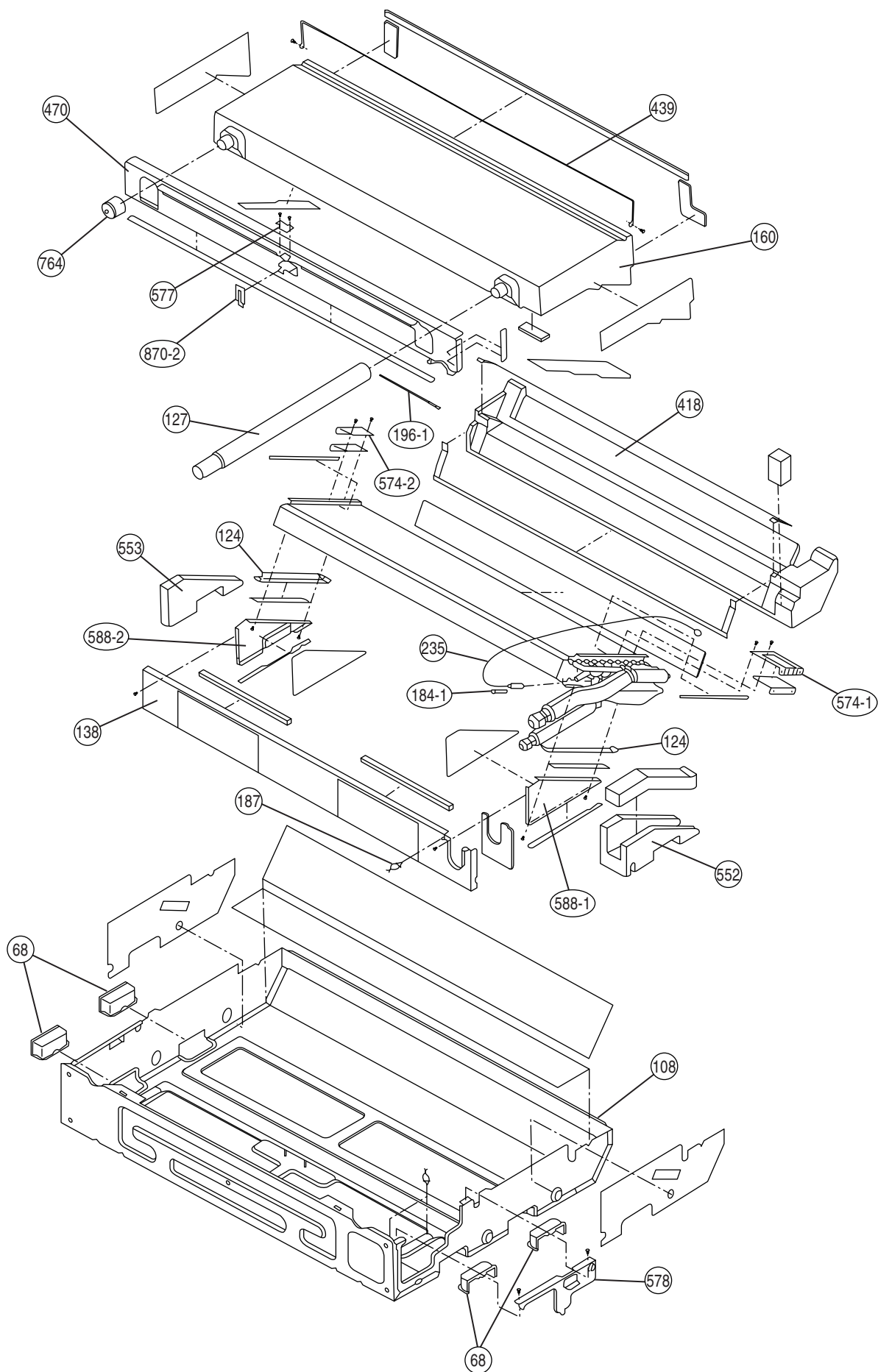
○ : Fast flashing ● : Slow flashing — : Off

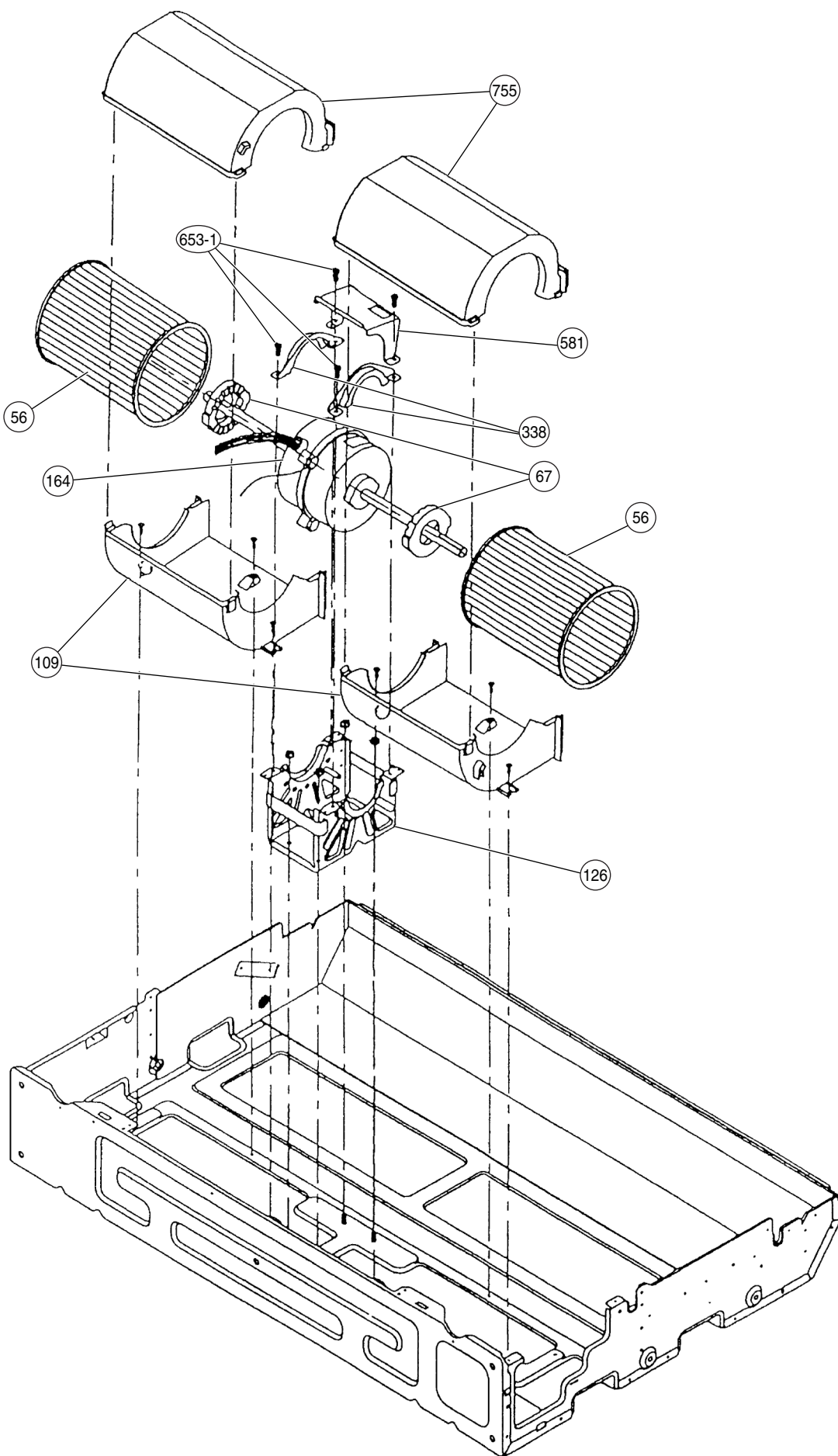
Error contents	Error display		
	OPERATION (RED)	TIMER (GREEN)	SWING (ORANGE)
Indoor unit circuit board error	○	○	—
Indoor unit room temperature sensor wire opened	2 times ●	○	—
Indoor unit room temperature sensor wire short circuited	2 times ●	○	○
Indoor unit piping sensor wire opened	3 times ●	○	—
Indoor unit piping sensor wire short circuited	3 times ●	○	○
Indoor unit fan error	6 times ●	○	—

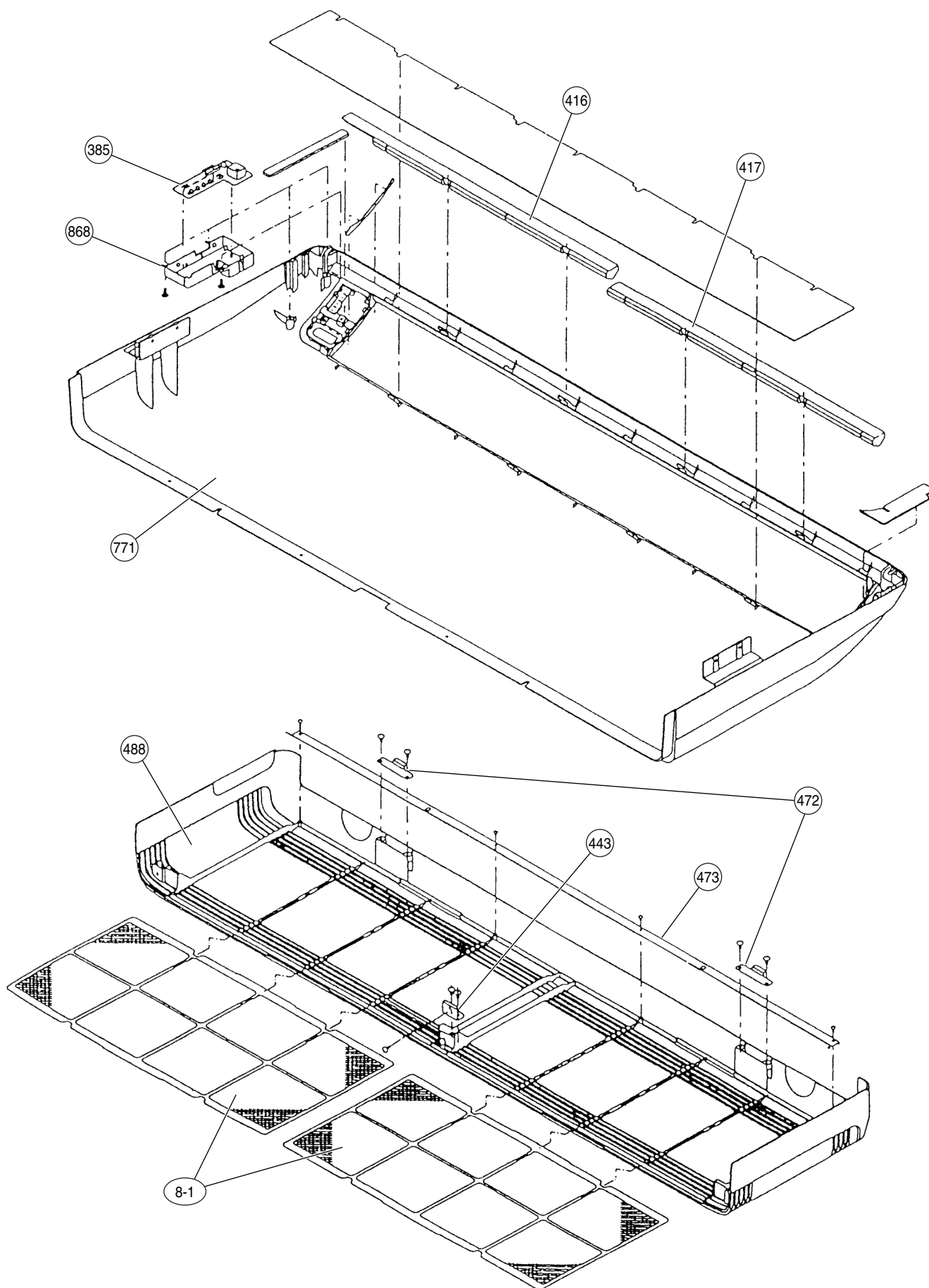
DISASSEMBLY ASSEMBLY

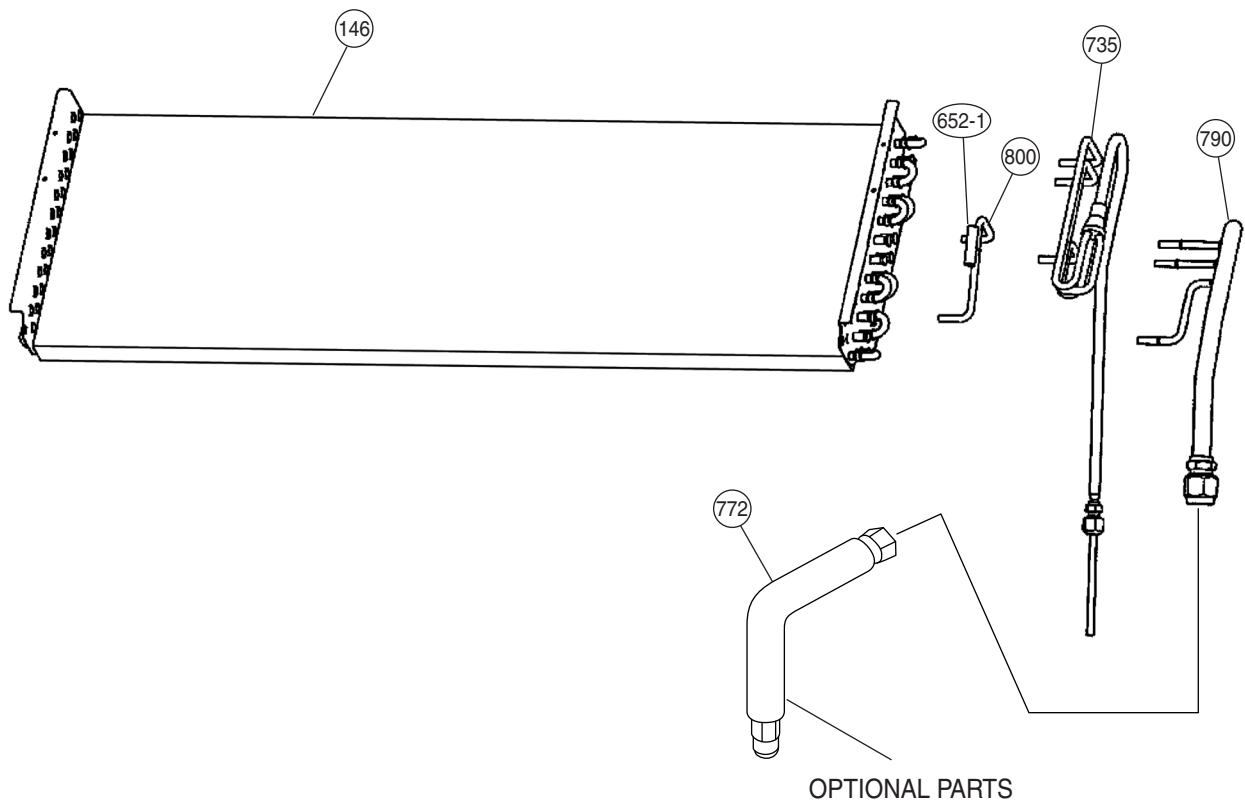
INDOOR UNIT

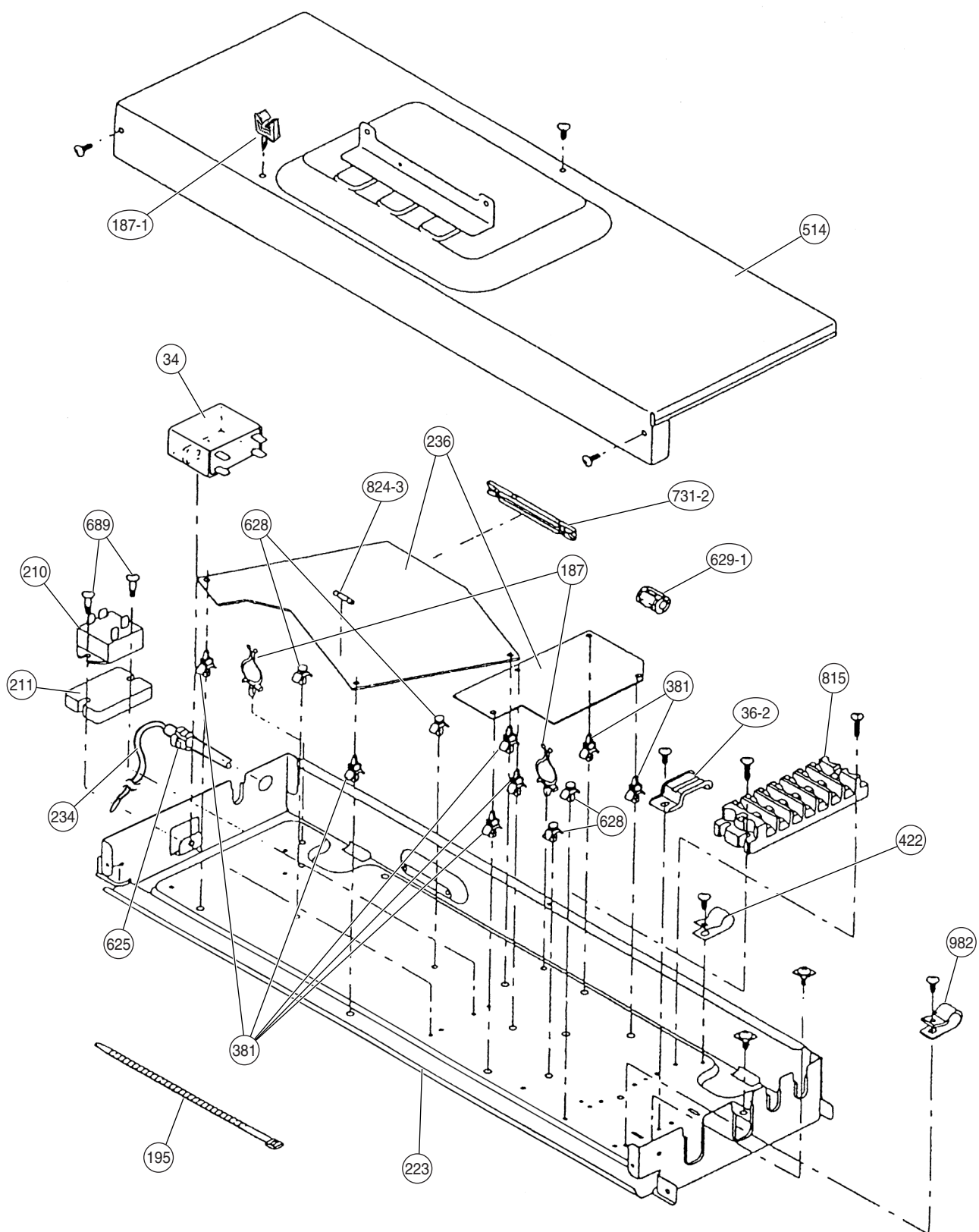


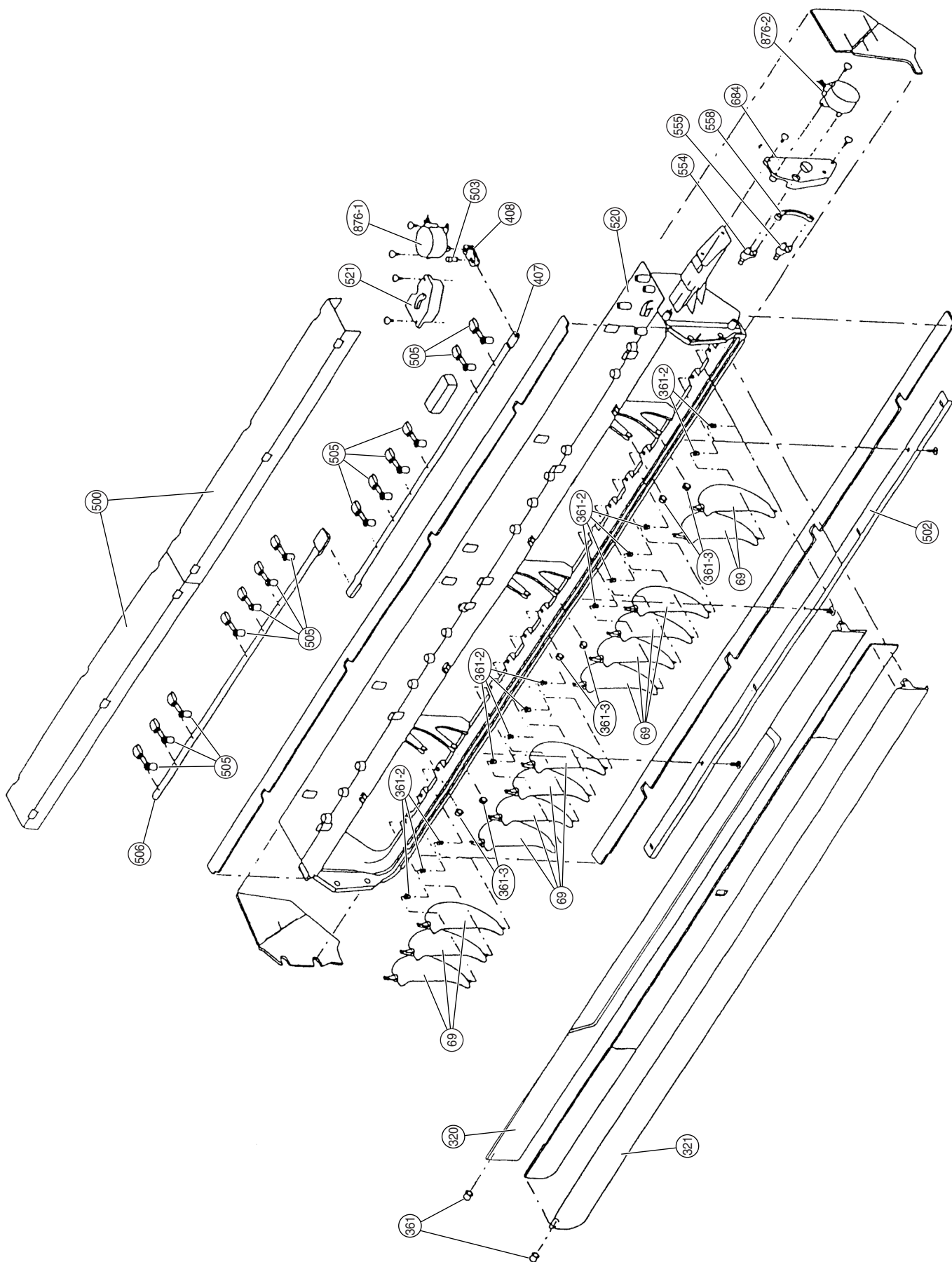




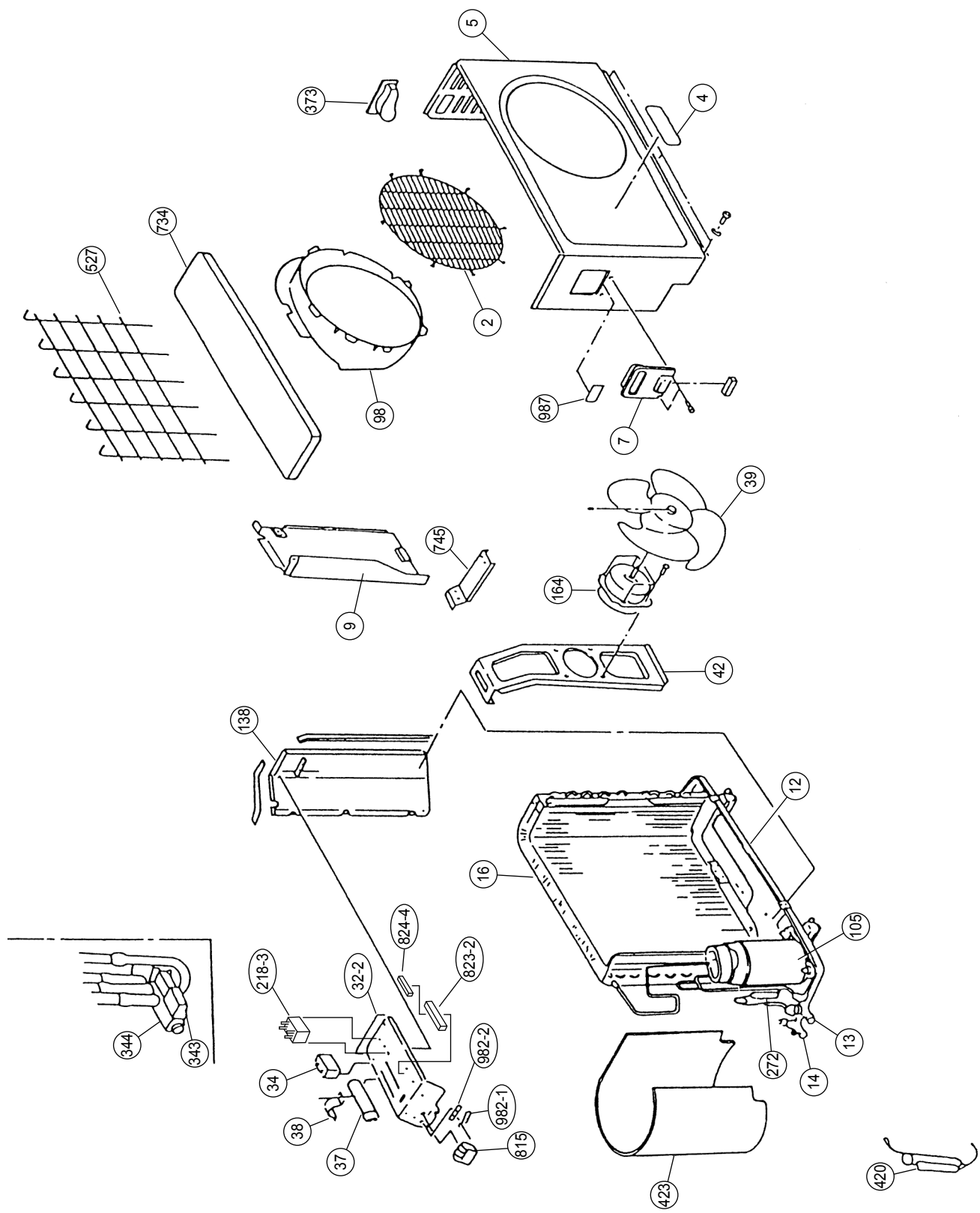


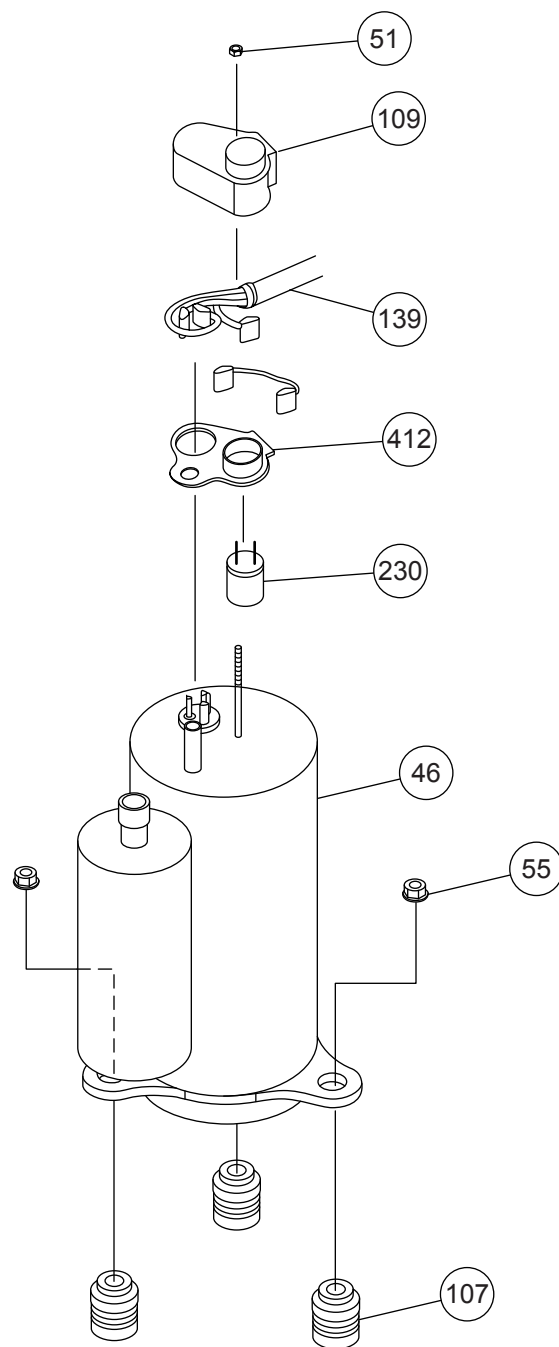




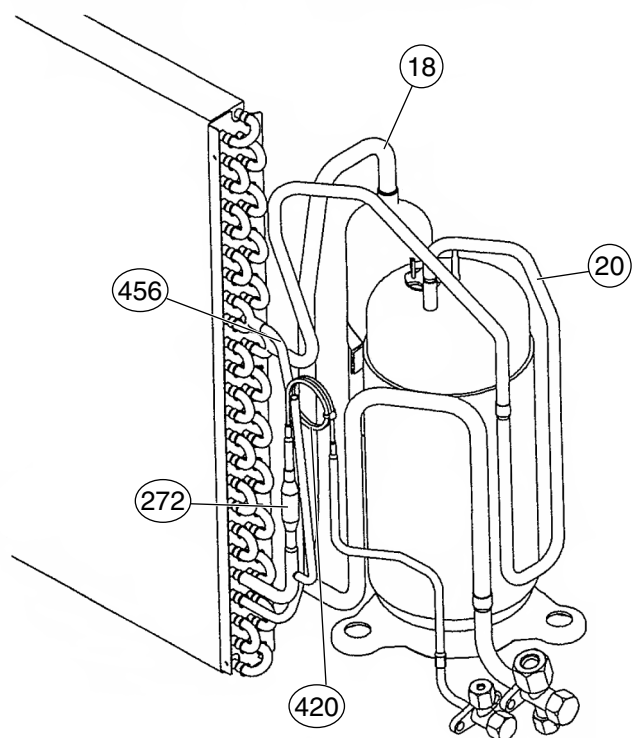


OUTDOOR UNIT

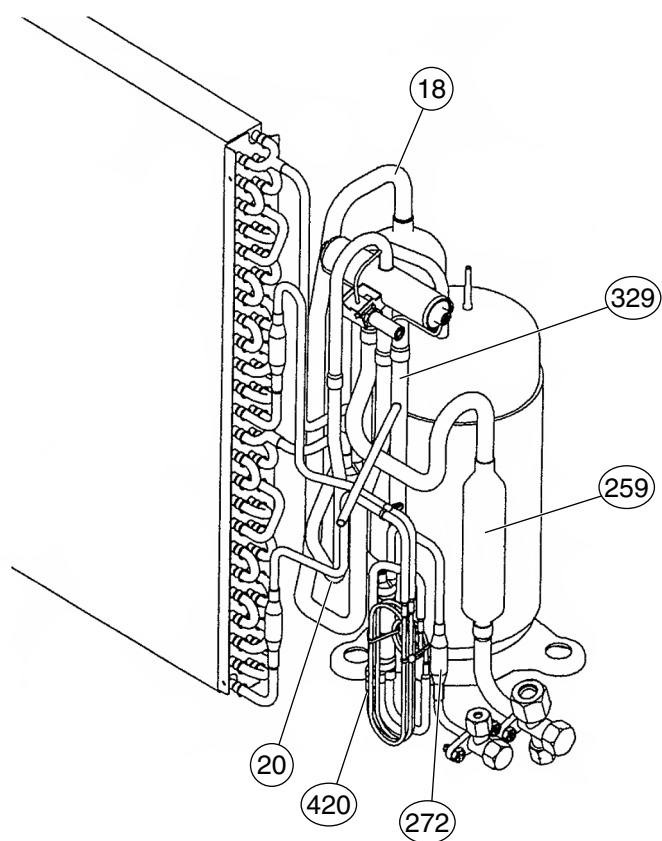




Model : AOY14FSDJ



Model : AOY14USDJL



PARTS LIST

INDOOR UNIT

Ref. No.	Description	Part No.		Ord. Q'ty
		ABY14FBBJ	ABY14UBBJ	
8-1	Air Filter	9358567029	9358567029	
34	Capacitor (Fan Motor)	9704305039	9704305039	
36-2	Cord Holder Metal	9356362008	9356362008	
56	Sirocco Fan Assy	9385258006	9385258006	
67	Rubber (Vibration-proof)	9385102002	9385102002	
69	Louver	9358561010	9358561010	
68	Cap, Plastic	9358563007	9358563007	
108	Base Assy	9359061038	9359061038	
109	Casing, Plastic	9358543009	9358543009	
124	Dew Proof Plate	9359196006	9359196006	
126	Motor Fixing Table Assy	9358591000	9358591000	
127	Drain Hose Assy	9359242000	9359242000	
138	Separate Wall-A	9358584002	9358584002	
146	Evaporator Assy	9362513029	9362513029	
160	Drain Pan Assy	9358568002	9358568002	
164	Fan Motor Assy	9601527039	9601527039	
173	Hanger Bracket-L	9358596005	9358596005	
174	Hanger Bracket-R	9358595008	9358595008	
184-1	Thermistor Spring-A	313728262708	313728262708	
187	Clamp No. 1219	313361271706	313361271706	
187-1	Clip (Cable)	9352715006	9352715006	
195	Clamp SKB-100	313361275805	313361275805	
196-1	Clamp SKB-3M	312300787605	312300787605	
210	Main Relay	9353611017	-----	
211	Cushion Rubber	313806328306	-----	
223	Control Box	9358600016	9358600016	
234	Thermistor Assy-Room	9703299087	9703299087	
235	Thermistor Assy-Pipe	9900022020	9900022020	
236	Controller PCB Assy	9704557094 (EZ-001LWSE-C)	9704557551 (EZ-00312HSE-C)	
240	Remote Control Unit	9371190020	9371190013	
320	Flap (Upper)-F	9358538012	9358538012	
321	Flap (Lower)	9358541012	9358541012	
338	Motor Fixture	9358594001	9358594001	
361	Bushing	9357942001	9357942001	
361-2	Bushing-B, Plastic	9358554005	9358554005	
361-3	Bushing-C, Plastic	9358553008	9358553008	
365-1	Special Screw	9359092001	9359092001	
365-2	Special Screw	9359091004	9359091004	
381	Locking Spacer, KGLS-4S	313209391506	313209391506	
385	Indicator PCB Assy	9701873012	9701873012	
407	Motor Rod	9358560006	9358560006	
408	Louver Link	9358556009	9358556009	
416	Insulation (Panel)-A	9358574003	9358574003	
417	Insulation (Panel)-B	9358914007	9358914007	
418	Insulation (Flap Base)	9358572009	9358572009	
422	Clamp NK-10N	9359183006	9359183006	
439	Drain Pan Wire	9358598009	9358598009	
443	Arm Bracket	9359281009	9359281009	
470	Separate Wall-B	9358585009	9358585009	
472	Grille Support	9358602003	9358602003	
473	Filter Bracket	9358607008	9358607008	

Ref. No.	Description	Part No.		Ord. Q'ty
		ABY14FBBJ	ABY14UBBJ	
488	Grill-F	9358532010	9358532010	
500	Protect Cover	9358564004	9358564004	
502	Support Stay	9358599006	9358599006	
503	Louver Shaft	9358557006	9358557006	
505	Louver Stopper	9358555002	9358555002	
506	Louver Rod	9358559000	9358559000	
508	Cosmetic Panel-R	9358535011	9358535011	
509	Cosmetic Panel-L	9358536018	9358536018	
514	Control Box Cover	9359097006	9359097006	
520	Flap Base	9358537015	9358537015	
521	Louver Link Cover	9358558003	9358558003	
552	Insulation (Eva.)-R	9358575000	9358575000	
553	Insulation (Eva.)-L	9358857007	9358857007	
554	Flap Link-Upper (Step Motor-V)	9358551004	9358551004	
555	Flap Link-Lower (Step Motor-V)	9358552001	9358552001	
558	Motor Rod-A (Step Motor-V)	9358550007	9358550007	
574-1	Evaporator Fixture-R (Bracket)	9358589007	9358589007	
574-2	Evaporator Fixture-L (Bracket)	9358590003	9358590003	
577	Catch TL-119	9359096009	9359096009	
578	Base Bracket (Reinforcement Metal)	9358586006	9358586006	
580	Top Cover	9358534014	9358534014	
581	Protector, Metal (Fan Motor)	9359282006	9359282006	
588-1	Evaporator Bracket-R	9358587003	9358587003	
588-2	Evaporator Bracket-L	9358588000	9358588000	
625	Cord Bushing KR-51	9359240006	9359240006	
628	Locking Spacer-B	313005446558	313005446558	
629-1	EMI Filter	0400247074	0400247074	
652-1	Thermistor Holder Pipe	313806262805	313806262805	
653-1	Bolt (Fan Motor Fixing)	0700156014	0700156014	
653-2	Bolt	0700190018	0700190018	
684	Motor Base	9358562000	9358562000	
689	Screw, Grip Tapping SN+4016 ZNY w/Grip	9357837000	-----	
731-2	Holder (Guide Rail)	0600241018	0600241018	
743	Remote Control Unit Holder	9305642014	9305642014	
755	Casing Cover	9358544006	9358544006	
764	Drain Cap	9358746004	9358746004	
771	Panel Assy	9359076018	9359076018	
735	Distributor As	9373034018	9373034018	
800	Bypass Pipe Assy	9373032014	9373032014	
815-1	Terminal 3P	9900203016	-----	
815	Terminal 7P	-----	9358660102	
824-3	Fuse BET3.15A - 250V	0600222512	0600222512	
868	PCB Holder	9358547007	9358547007	
870-1	Arm	9358565001	9358565001	
870-2	Center Arm	9359280002	9359280002	
875	Power Supply PCB Assy	9704561022	9704561022	
876-1	Step Motor-H	9359106012	9359106012	
876-2	Step Motor-V	9359105015	9359105015	
923	Control Box Bracket	9358717004	9358717004	
982	Cord Clamp	9357864006	9357864006	

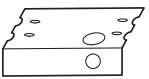
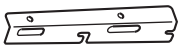
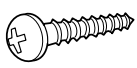
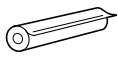
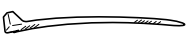
OUTDOOR UNIT

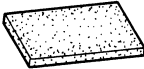
Ref.	Description	Part No.	
		AOY14FSDJ	AOY14USDJL
2	Fan Cover	9304109006	9304109006
4	Emblem-Rear	9351355005	9351355005
5	Cabinet, Painted	9302936017	9302936017
7	Connector Cover (Cabinet)	9357970004	9357970004
9	Cabinet Rear Panel	9303744017	9303744017
12	Base Assy, Painted	9310889077	9310889077
13	3-Way Valve	9372205105	9372205105
14	2-Way Valve	9372204030	9372204030
16	Condenser Assy	9373131045	9373131014
18	Suction Pipe	9364832005	9364827001
20	Discharge Pipe Assy	9364830001	-----
32-2	Control Box Metal-A	9355843003	9355843003
34	Capacitor (Fan Motor)	9704305039	9704305039
37	Running Capacitor	9704436115	9704436115
38	Capacitor Clamp Metal	313468061808	313468061808
39	Propeller Fan Assy	9351589011	9351589011
42	Bracket (Motor)	313166243804	313166243804
51	Special Nut M5 (For Comp.)	9359430018	9359430018
55	Special Nut M8 (For Comp.)	9355091008	9355091008
98	Fan Ring	313166296109	313166296109
105	Compressor Assy	9373010043	9373010043
107	Rubber Seat-A (For Comp.)	9351813017	9351813017
109	Terminal Cover (For Comp.)	9351920012	9351920012
138	Separate Wall Assy	9303729014	9303729014
164	Fan Motor Assy	9601113010	9601113010
259	Muffler	-----	313505083900
272	Strainer	9357309002	9301340006
344	4-Way Valve	-----	9970036019
373	Grip	313166178700	313166178700
412	Terminal Gasket (For Comp.)	9351921019	9351921019
420	Capillary Assy	9372197189	9372197110
423	Noise Insulation-F	9350944019	9350944019
527	Protection Net	9355444002	9355444002
734	Cabinet Top Plate	9302937014	9302937014
745	Motor Support	313166036308	313166036308
982-1	Cord Clamp	9356857009	9356857009
982-2	Cord Clamp-B	9356858006	9356858006
-	OCR Assy	9373129011	9373129011

STANDARD ACCESSORIES

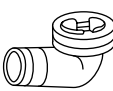
The following installation parts are furnished. Use them as required.

INDOOR UNIT ACCESSORIES

Name and Shape	Q'ty	Application	Parts No.
Cover plate (left) 	1		9358536018
Cover plate (right) 	1		9358535011
Installation template 	1	For positioning the indoor unit For under ceiling type	9359107002
Bracket (left) 	1	For suspending the indoor unit from ceiling	9358596005
Bracket (right) 	1		9358595008
Anchor bolt (M12) 	4		313806339400
Special nut 	4		
Spring washer 	4		301821112213
Wall bracket 	2	For suspending the indoor unit on the wall	9358597002
Tapping screw (φ4 x 20) 	6	For fixing the wall bracket	301141164200
Tapping screw (φ4 x 10) 	2		301171164104
Coupler heat insulator (large) 	1	For indoor side pipe joint (Large pipe)	9350716012
Coupler heat insulator (small) 	1	For indoor side pipe joint (Small pipe)	313209328104
Nylon fastener 	1	For fixing the drain hose	312300787605

Name and Shape	Q'ty	Application	Parts No.
Drain hose 	1		9359242000
Insulation (drain hose) 	1	Adhesive type 70 x 230	9359225003
VT wire 	1	For fixing the drain hose L 280 mm	313806350303
Remote control unit 	1	Use for air conditioner operation	9371190020 (for cooling model) 9371190013 (for cooling & heating model)
Remote control unit holder 	1	Use as remote control unit holder	9305642014
Battery (penlight) 	2	For remote control unit	0600185534
Tapping screw (φ3 x 12) 	2	For remote control unit holder installation	301141533125

OUTDOOR UNIT ACCESSORIES

Name and Shape	Q'ty	Application
Drain pipe 	1	For outdoor unit drain piping work [Heat & Cool model (Reverse cycle) only]
Drain cap 	2	

OPTIONAL PARTS FOR INDOOR UNIT

Name and Shape	Q'ty	Application	Parts No.
Joint pipe-A 		For indoor side pipe joint	9302812021

