

SPLIT TYPE
ROOM AIR CONDITIONER
WALL MOUNTED type

SERVICE
MANUAL



Models

Indoor unit	Outdoor unit
ASY30FBBJ	AOY30FNBDL
ASY30UBBJ	AOY30UNBDL

CONTENTS

SPECIFICATIONS.....	1
OUTLINE AND DIMENSIONS.....	2
REFRIGERANT SYSTEM DIAGRAM....	3
CIRCUIT DIAGRAM.....	4
PCB CIRCUIT DIAGRAM.....	6
ERROR DISPLAY.....	8
DISASSEMBLY ILLUSTRATION.....	9
PARTS LIST.....	18

SPECIFICATIONS

TYPE	Cooling only	Cool and Heat
INDOOR UNIT	ASY30FBBJ	ASY30UBBJ
OUTDOOR UNIT	AOY30FNBDL	AOY30UNBDL
COOLING CAPACITY	7.90 kW	7.90 kW
HEATING CAPACITY	---	8.40 kW

ELECTRICAL ATA

POWER SOURCE	230 V	230 V
FREQUENCY	50 Hz	50 Hz
RUNNING CURRENT (Cool)	13.0 A	13.0 A
RUNNING CURRENT (Heat)	---	13.0 A
INPUT WATTS (Cool)	2.75 kW	2.75 kW
INPUT WATTS (Heat)	---	2.75 kW
E.E.R. (Cool)	2.87 kW/kW	2.87 kW/kW
E.E.R. (Heat)	---	3.05 kW/kW
MOISTURE REMOVAL	3.0 L/hr	3.0 L/hr
AIR CIRCULATION HIGH	1,040 m3/hr	1,040 m3/hr

COMPRESSOR

TYPE	Hermetic type, Deposit electrode condenser, 2 poles. Single phase, Induction motor, Rotary	
DISCRIMINATION	5JS315DAD	
REFRIGERANT	R410A	2,300 g

FAN MOTOR

POWER SOURCE		230 V
INDOOR UNIT	Discrimination	MFA-30HTT
	High speed	1,310 r.p.m.
	Meddle speed	1,180 r.p.m.
	Low speed	980 r.p.m.
OUTDOOR UNIT	Discrimination	MFB-30NTAT
	High speed	730 r.p.m.
	Low speed	450 r.p.m.

DIMENSIONS

INDOOR UNIT	H x W x D	320 x 1,120 x 220 mm
OUTDOOR UNIT	H x W x D	900 x 900 x 350 mm

WEIGHT

INDOOR UNIT	Gross / Net	22 kg / 16 kg	
OUTDOOR UNIT	Gross / Net	85 kg / 73 kg	86 kg / 74 kg

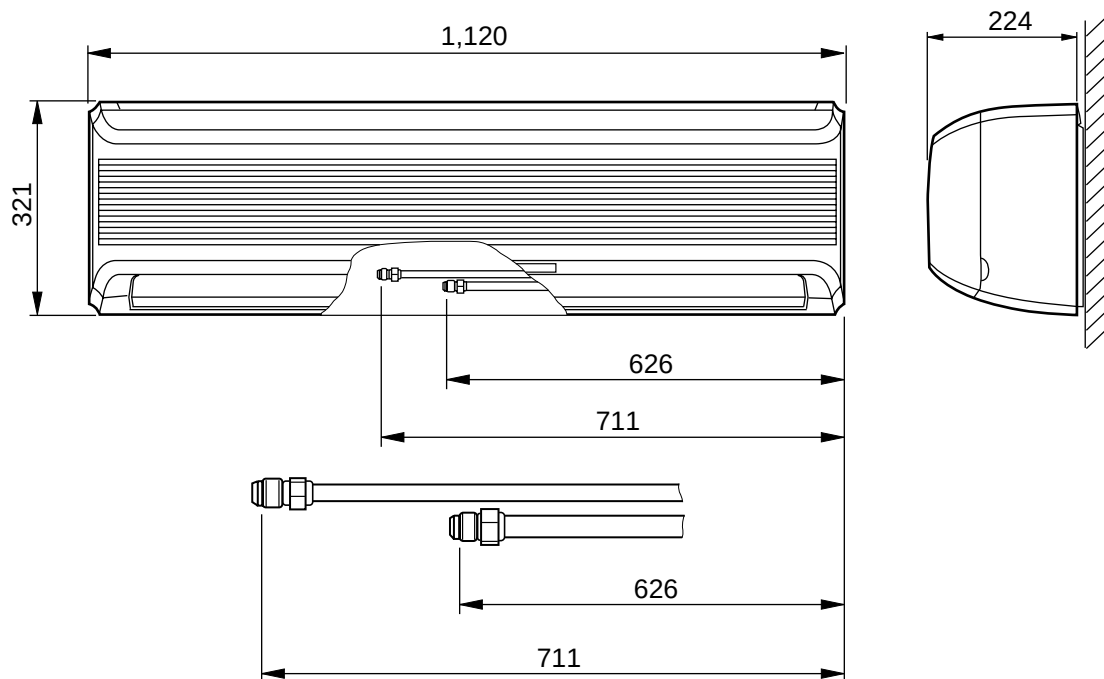
REFRIGERANT CHARGE (R410A)

FULL CHARGE	Pipe Length	7.5 m (25 ft)	2,300 g (81.1 oz)	2,300 g (81.1 oz)
		10 m (33 ft)	2,350 g (82.9 oz)	2,400 g (84.7 oz)
		15 m (49 ft)	2,450 g (86.4 oz)	2,600 g (91.7 oz)
		20 m (66 ft)	2,550 g (89.9 oz)	2,800 g (98.8 oz)
		25 m (82 ft)	2,650 g (93.5 oz)	3,000 g (105.8 oz)
		30 m (98 ft)	2,750 g (97.0 oz)	---
ADDITIONAL CHARGE		20 g/m (0.215 oz/ft)	40 g/m (0.43 oz/ft)	

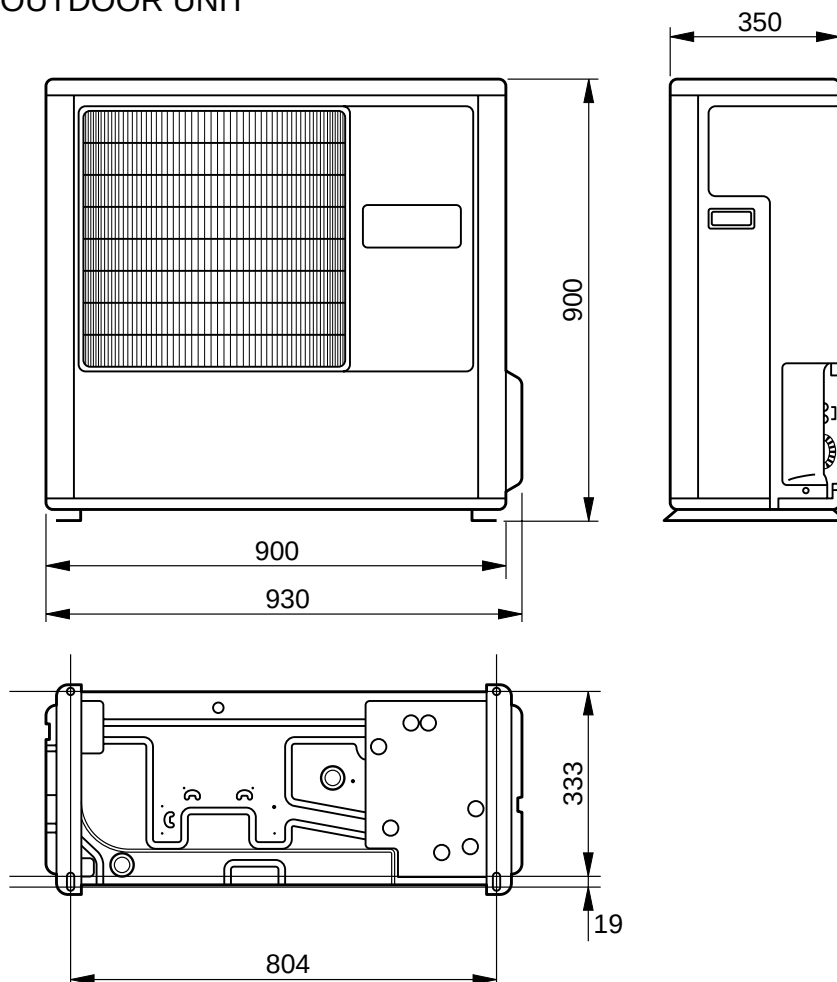
OUTLINE AND DIMENSIONS

Unit : mm

INDOOR UNIT



OUTDOOR UNIT



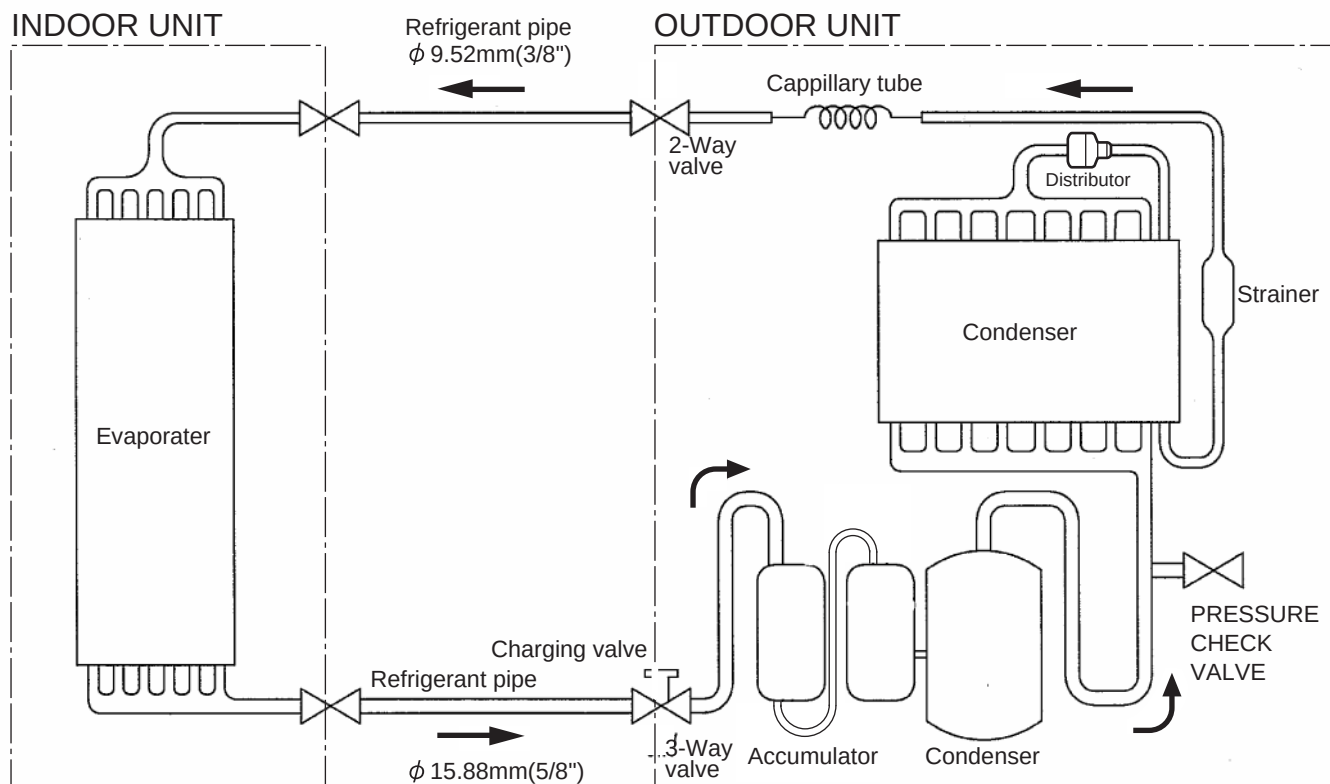
REFRIGERANT SYSTEM DIAGRAM

Refrigerant direction

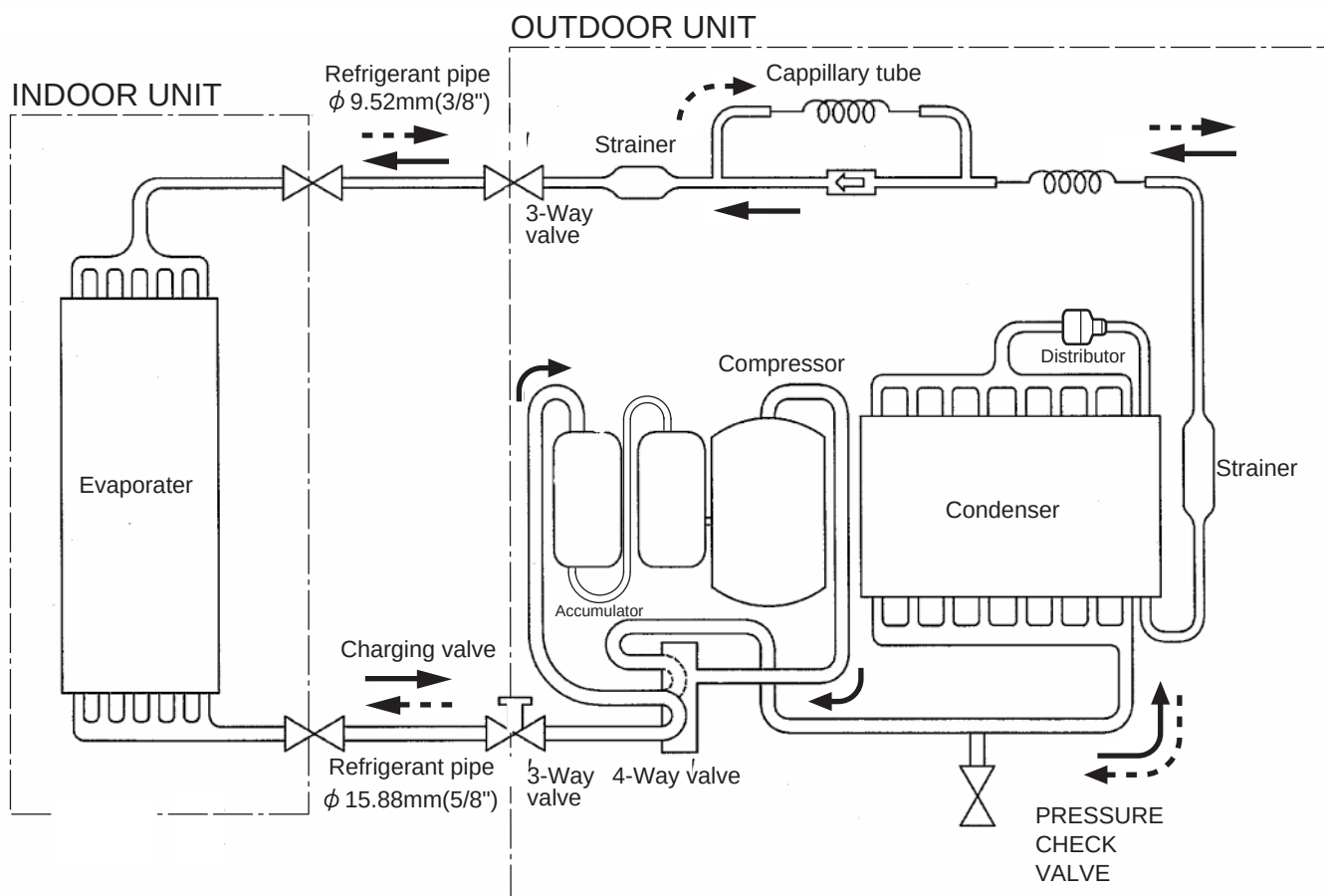
→ Cooling

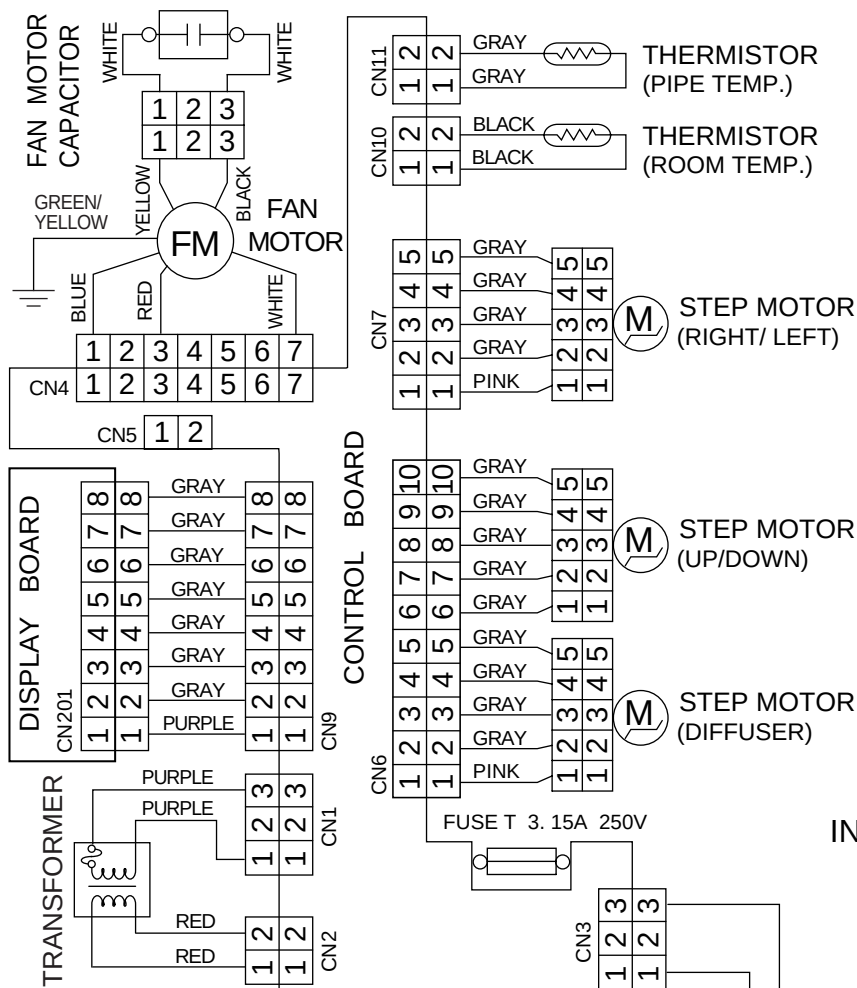
---> Heating

Models : ASY30FBBJ / AOY30FNBDL



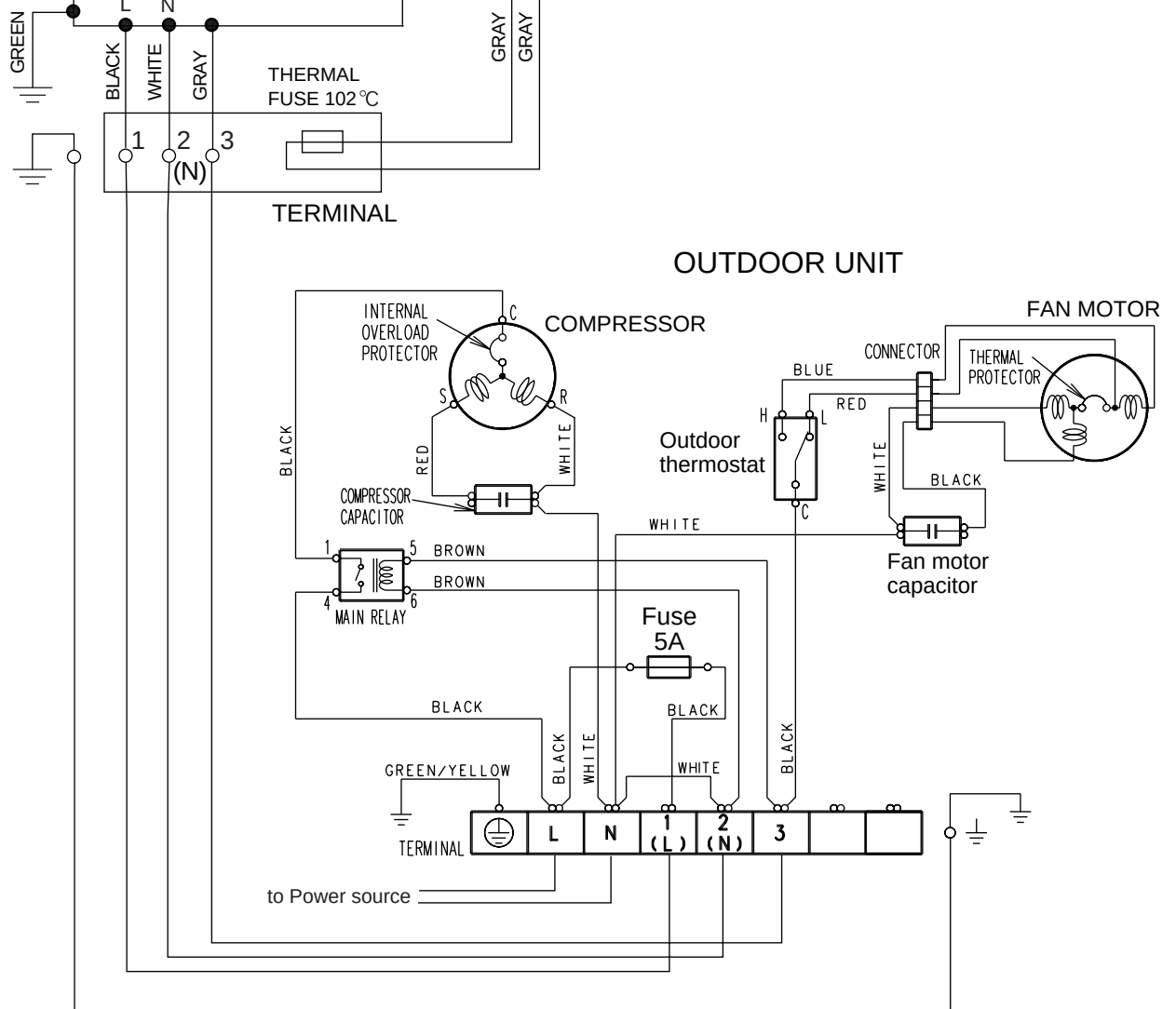
Models : ASY30UBBJ / AOY30UNBDL





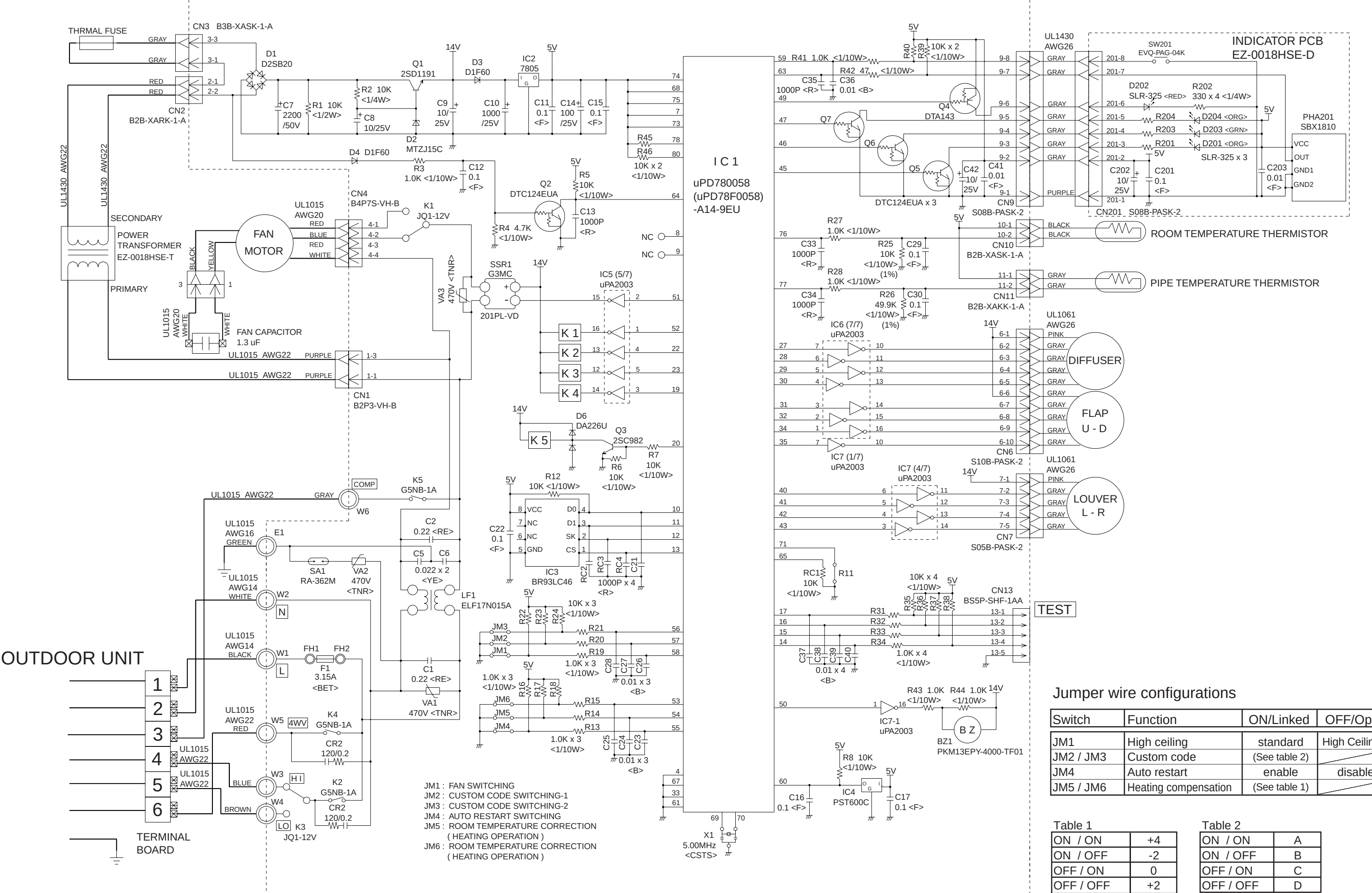
CIRCUIT DIAGRAM

Model : ASY30FBBJ / AOY30FNBDL



CONTROLLER PCB ASSEMBLY
ASY30FBBJ : K05EF-050EWSE-C1

CONTROLLER PCB ASSEMBLY
ASY30UBBJ : K05EF-0507HSE-C1



ERROR DISPLAY

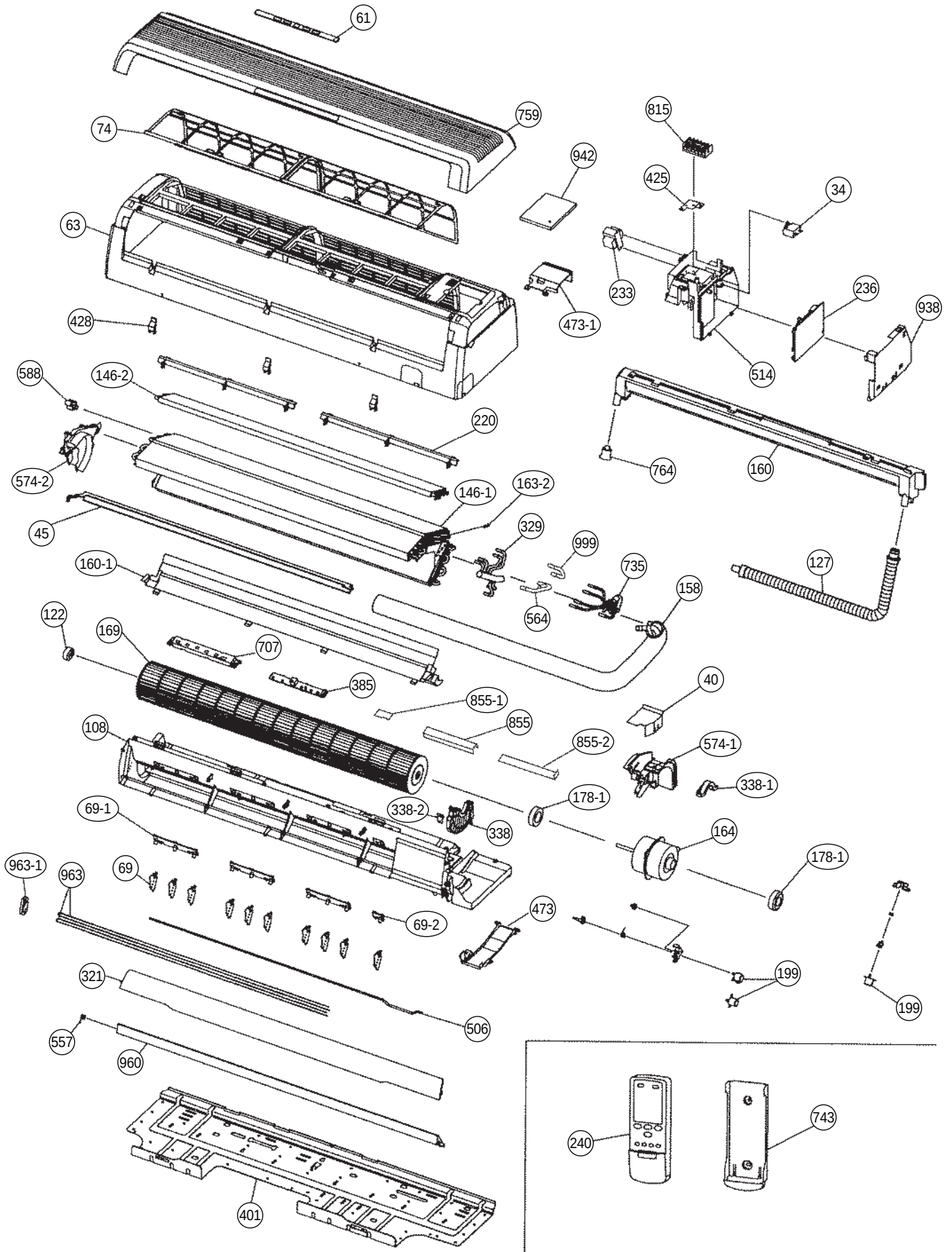
The OPERATION, TIMER and SWING lamps operate as follows according to the error contents.

○ : Fast flashing ● : Slow flashing — : Off

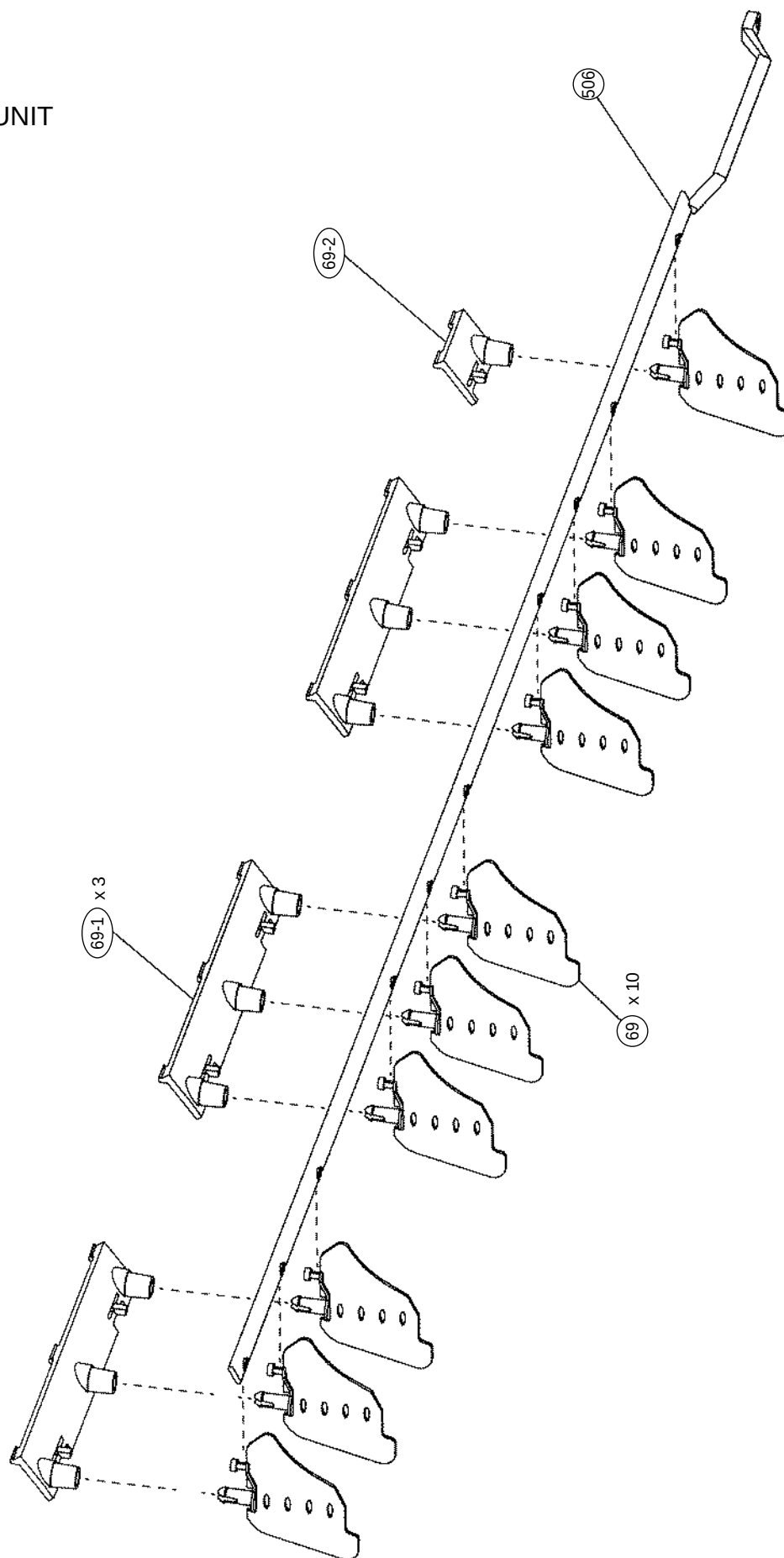
Error contents	Error display		
	OPERATION (RED)	TIMER (GREEN)	SWING (ORANGE)
Indoor unit circuit board error	○	○	—
Indoor unit room temperature sensor wire opened	2 times ●	○	—
Indoor unit room temperature sensor wire short circuited	2 times ●	○	○
Indoor unit piping sensor wire opened	3 times ●	○	—
Indoor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

DISASSEMBLY ILLUSTRATION

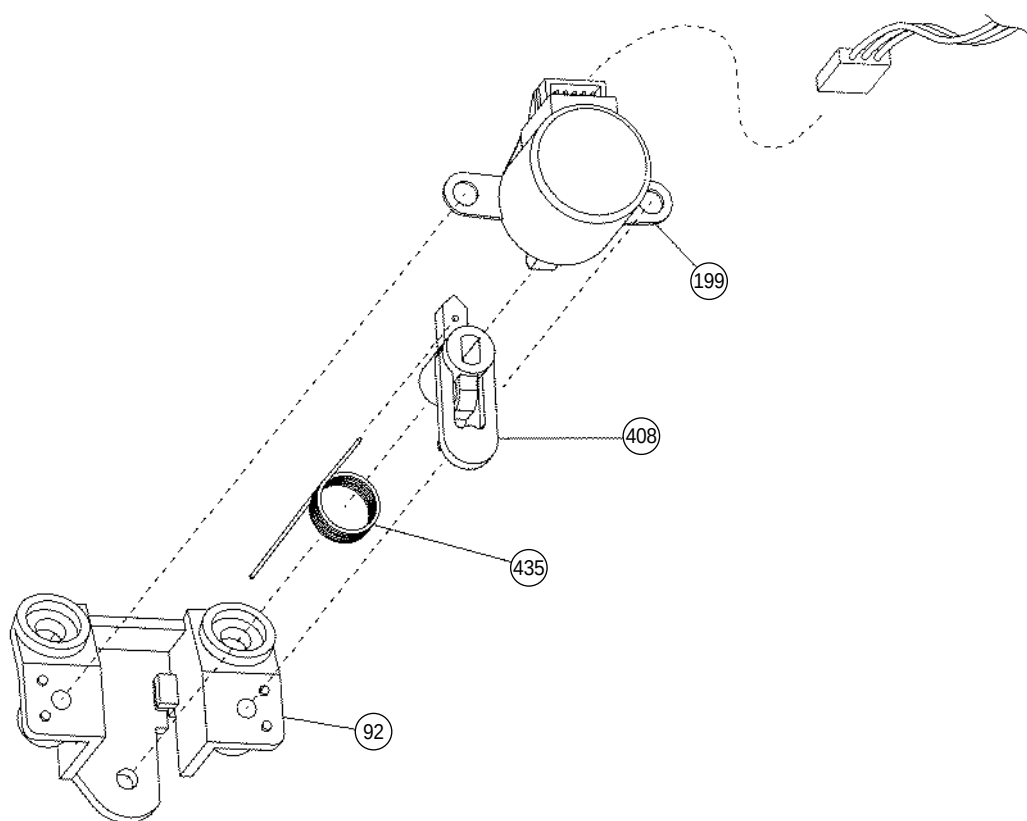
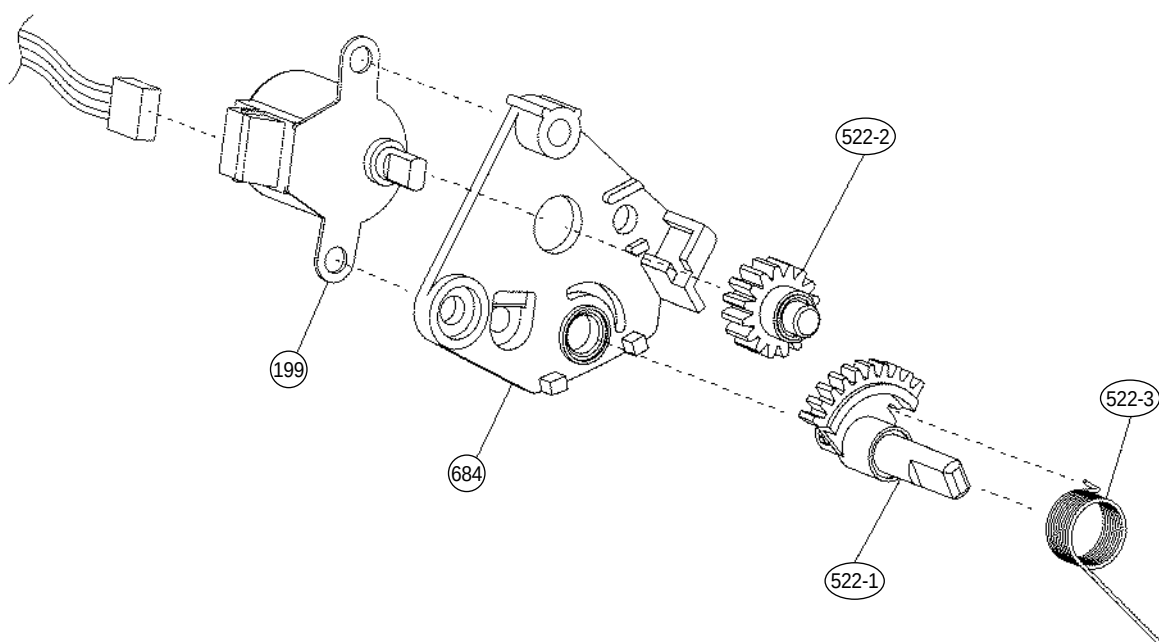
INDOOR UNIT



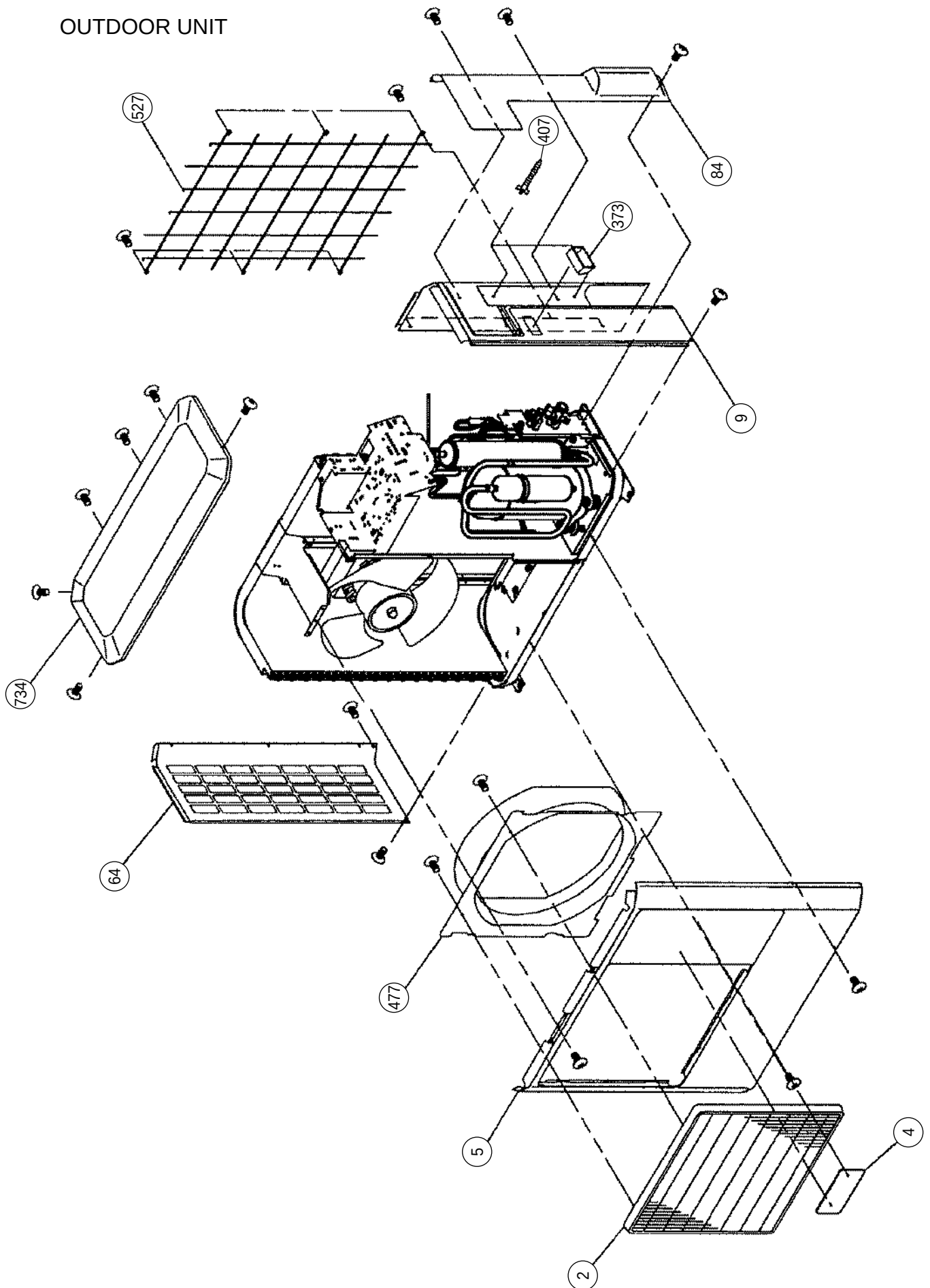
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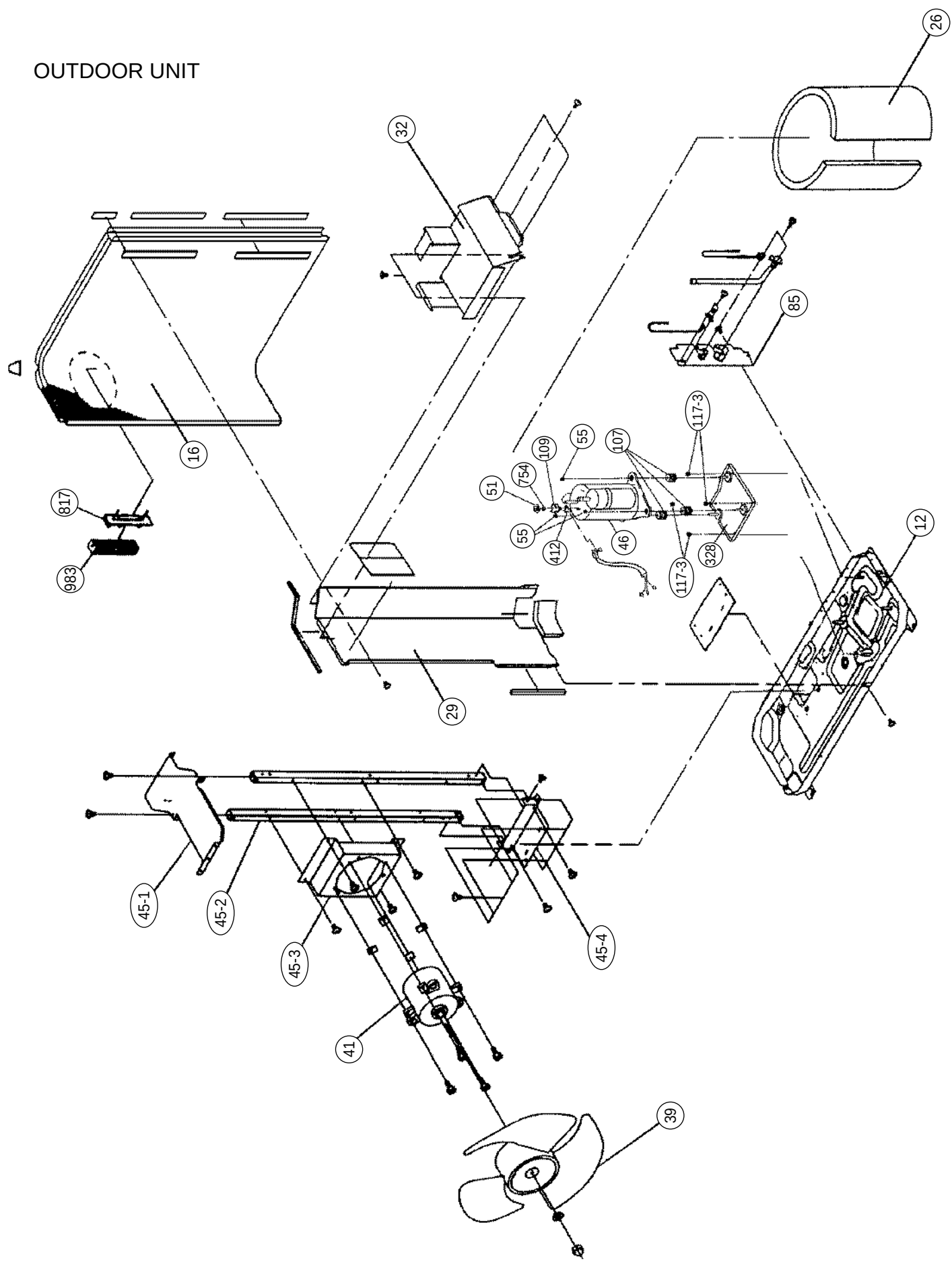
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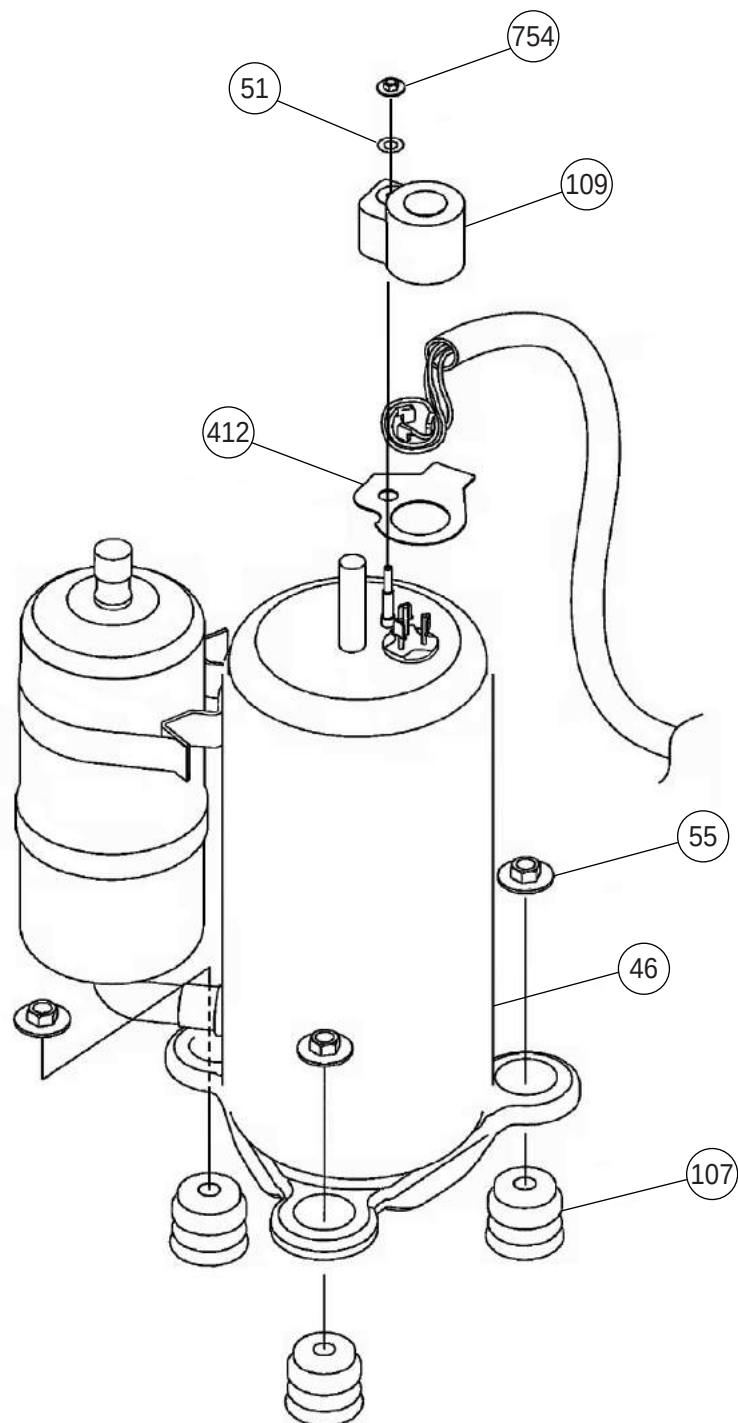
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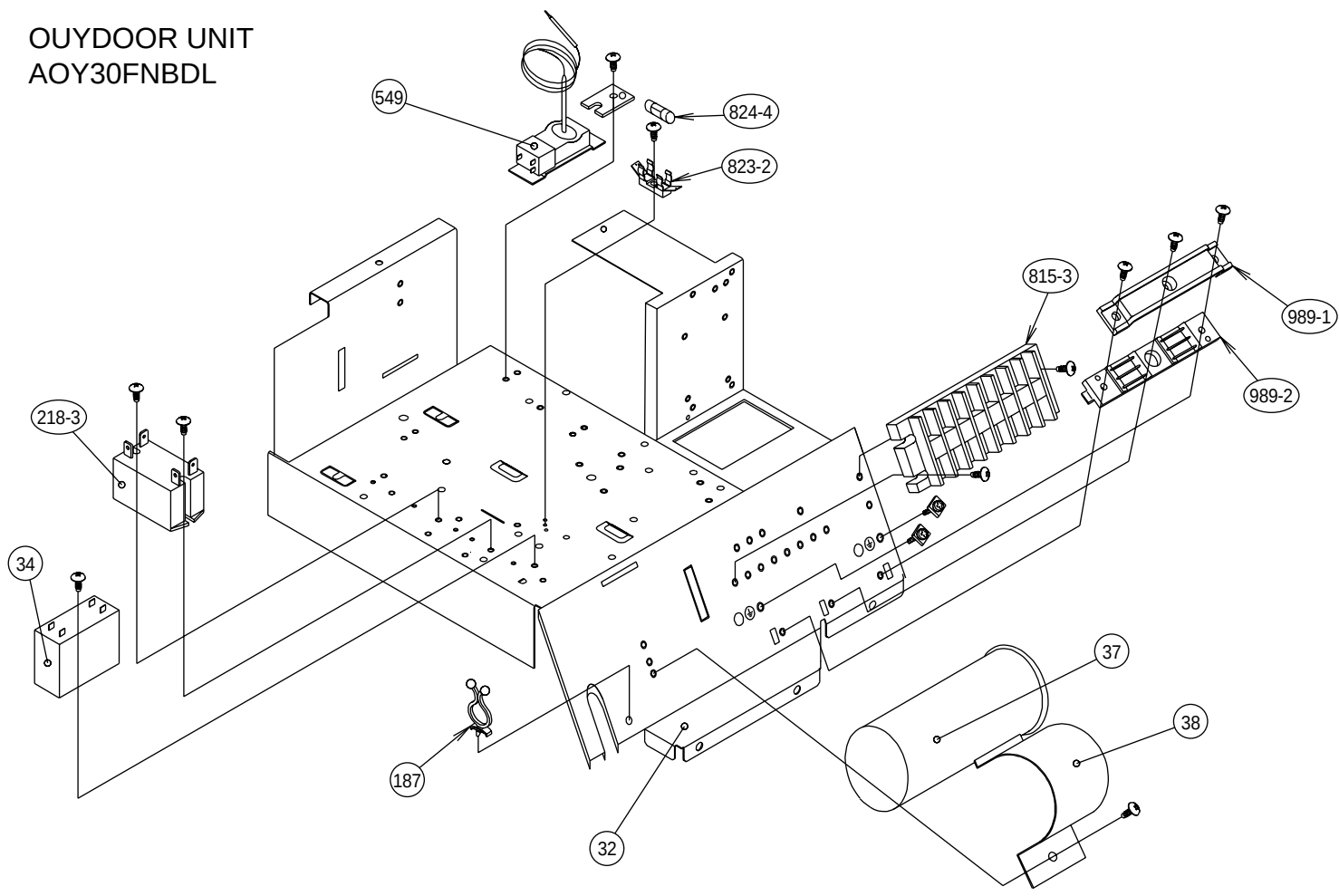
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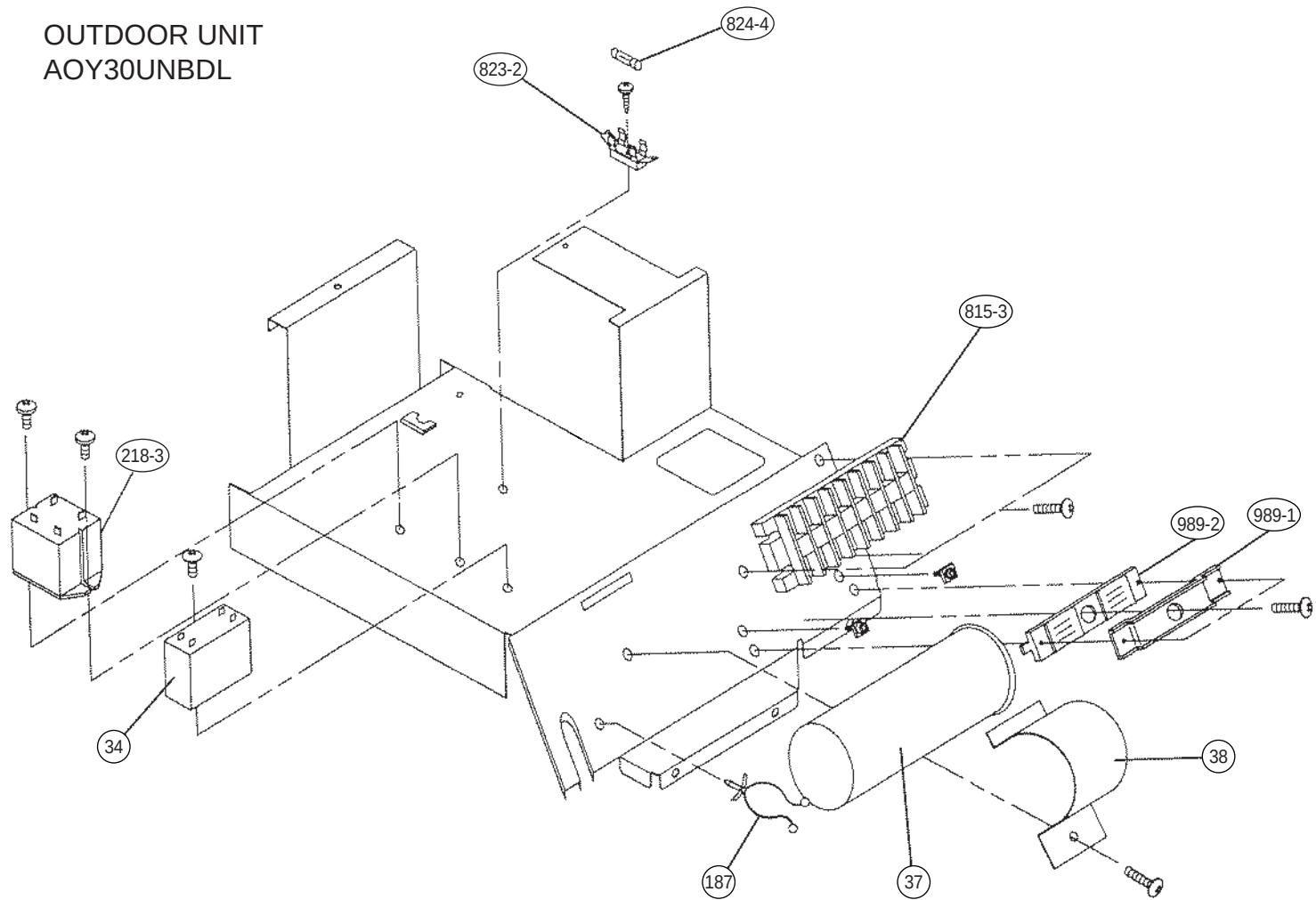
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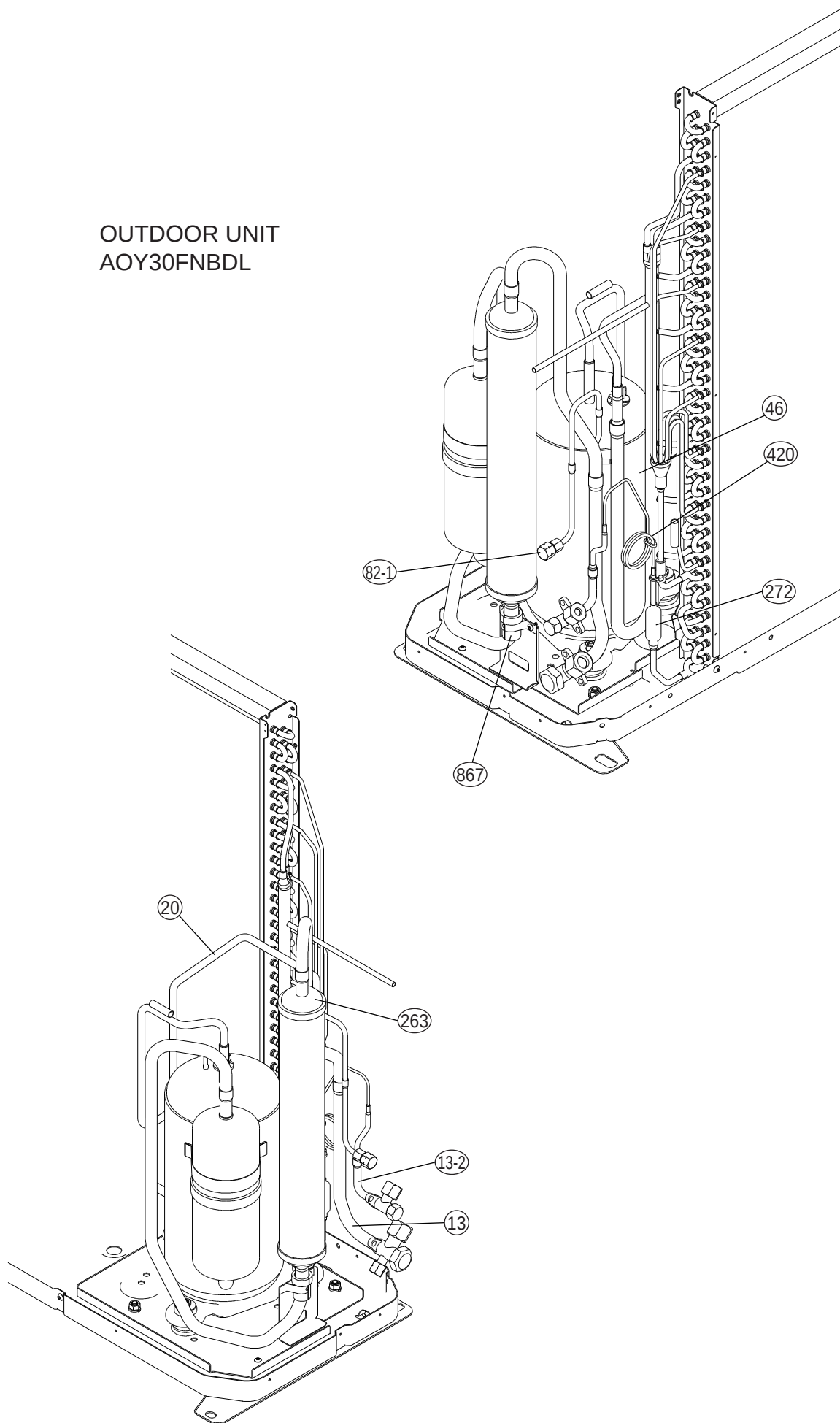
OUYDOOR UNIT
AOY30FNBDL



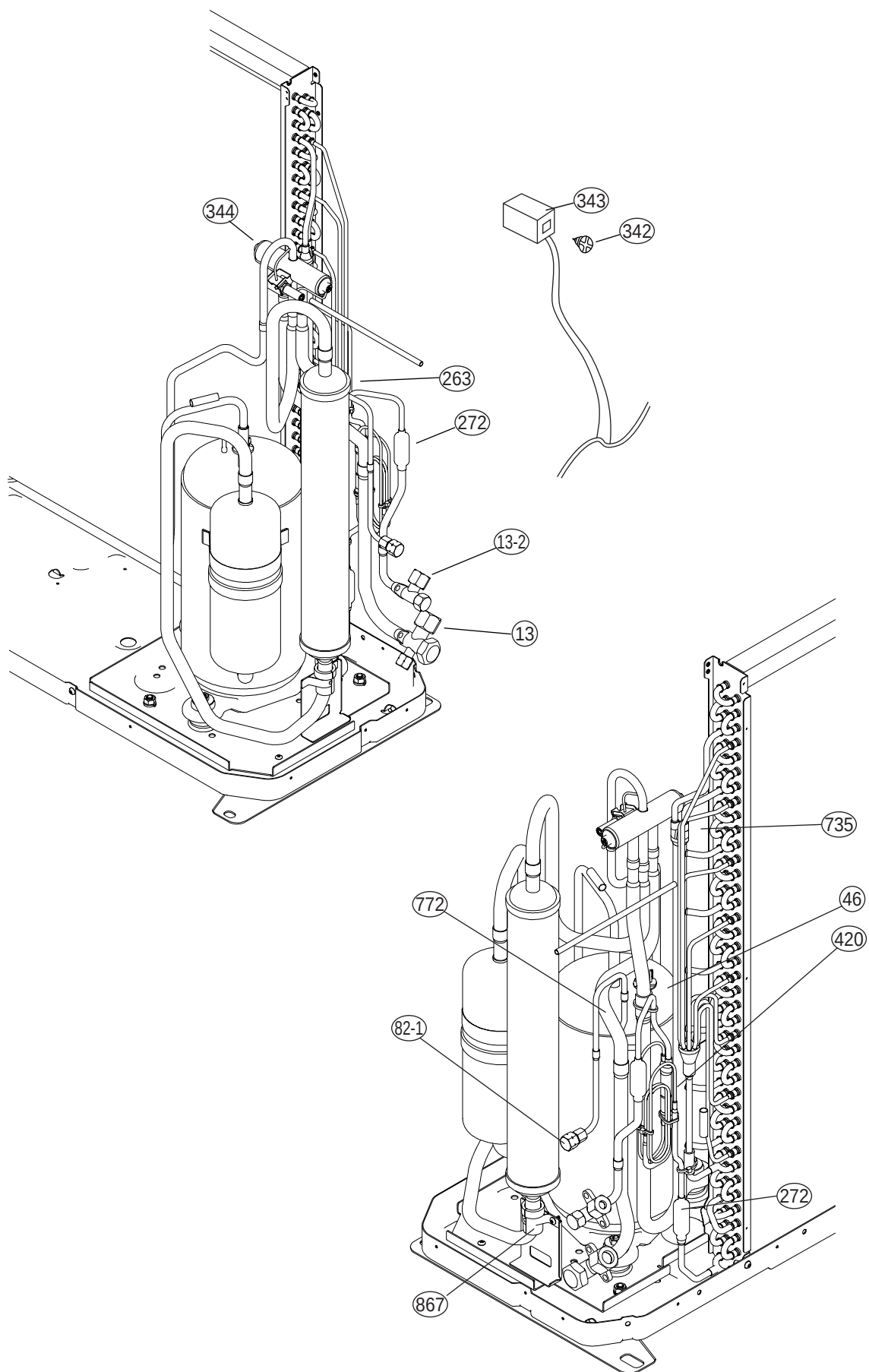
OUTDOOR UNIT
AOY30UNBDL



OUTDOOR UNIT
AOY30FNBDL



OUTDOOR UNIT
AOY30UNBDL



PARTS LIST

INDOOR UNIT

Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
		ASY30FBBJ				ASY30FBBJ	
34	Capacitor (Fan Motor)	9704305060		338-1	Motor Holder-B	9368551001	
40	Water Seal Plate	9369684005		338-2	Motor Holder-C	9368769000	
45	Bracket (Eva.)	9369372001		385	Indicator PCB Assy	9702307011	
61	Decoration Plate-F Assy	9368757014		401	Wall Hook Bracket	9368579005	
63	Front Panel	9368540012		408	Louver Link	9368562007	
69	Louver	9368560010		425	Earth Plate	9368580001	
69-1	Louver Base-A	9368558017		428	Screw Cover	9368576011	
69-2	Louver Base-B	9368559014		435	Louver Spring	9368613006	
74	Air Filter	9368552008		473	Pipe Holder	9368565008	
92	Link Holder	9368563004		473-1	Cord Holder	9368566005	
108	Base Assy	9369209017		506	Louver Rod	9368561017	
122	Bearing Assy	9368574000		514	Control Box	9368543006	
127	Drain Hose	9367695003		522-1	Sector Gear	9368556006	
146-1	Evaporator-A Assy	9369366000		522-2	Pinion Gear	9368557003	
146-2	Evaporator-B Assy	9369373008		522-3	Flap Spring	9368612009	
158	Joint Pipe Assy	9369371004		557	Diffuser Spring	9368587000	
160	Front Drain Pan	9368546007		564	Bypass Pipe-A Assy	9369551000	
160-1	Rear Drain Pan	9368547004		574-1	Evaporator Support-R	9368549008	
163-2	Thermistor Spring-A	313728262708		574-2	Evaporator Support-L	9368548001	
164	Fan Motor Assy-IN	9601388012		588	Evaporator Holder	9368775001	
169	Cross Flow Fan Assy	9368586003		684	Motor Base	9368555009	
178-1	Rubber (Motor)	9368575007		707	Display Cover	9368564001	
199	Step Motor	9900020019		735	Distributor	9371325019	
220	Water Plate	9368569006		743	Remote Control Unit Holder	9305642014	
233	Power Transformer	9900069018		759	Intake Grill-F Assy	9368541019	
236	Controller PCB Assy	9707212150		764	Drain Cap	9367677009	
240	Remote Control Unit	9371190020		815	Terminal	9306489106	
321	Flap	9368544010		855	Cover Display	9369264016	
329	Coupling Pipe Assy	9369370007		855-1	Cover Display-B	9369594014	
338	Motor Holder-A	9368550004		855-2	Cover Display-C	9369683015	
				938	Control Box Cover-R	9368570002	
				942	Control Box Cover	9368611002	
				960	Diffuser	9369346019	
				963	Fan Guard	9368588007	
				963-1	Fan Guard Holder	9368554002	
				999	Bypass Pipe-B	9369368004	
				---	Room Thermistor	9703299179	
				---	Pipe Thermistor	9703297076	

INDOOR UNIT

Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
		ASY30UBBJ				ASY30UBBJ	
34	Capacitor (Fan Motor)	9704305060		338-1	Motor Holder-B	9368551001	
40	Water Seal Plate	9369684005		338-2	Motor Holder-C	9368769000	
45	Bracket (Evaporator)	9369372001		385	Indicator PCB Assy	9702307011	
61	Decoration Plate-F	9368757014		401	Wall Hook Bracket	9368579005	
61	Decoration Plate-G	9368756017		408	Louver Link	9368562007	
63	Front Panel (ASY)	9368540012		425	Earth Plate	9368580001	
69	Louver	9368560010		428	Screw Cover	9368576011	
69-1	Louver Base-A	9368558017		435	Louver Spring	9368613006	
69-2	Louver Base-B	9368559014		473	Pipe Holder	9368565008	
74	Air Filter	9368552008		473-1	Cord Holder	9368566005	
92	Link Holder	9368563004		506	Louver Rod	9368561017	
108	Base Assy	9369209017		514	Control Box	9368543006	
122	Bearing Assy	9368574000		522-1	Sector Gear	9368556006	
127	Drain Hose	9367695003		522-2	Pinion Gear	9368557003	
146-1	Evaporator-A Assy	9371347011		522-3	Flap Spring	9368612009	
146-2	Evaporator-B Assy	9371348018		557	Diffuser Spring	9368587000	
158	Joint Pipe Assy	9371341019		564	Bypass Pipe-A Assy	9369551000	
160	Front Drain Pan	9368546007		574-1	Evaporator Support-R	9368549008	
160-1	Rear Drain Pan	9368547004		574-2	Evaporator Support-L	9368548001	
163-2	Thermistor Spring-A	313728262708		588	Evaporator Holder	9368775001	
164	Fan Motor Assy-IN	9601388012		684	Motor Base	9368555009	
169	Cross Flow Fan Assy	9368586003		707	Display Cover	9368564001	
178-1	Rubber (Motor)	9368575007		735	Distributor	9371325019	
199	Step Motor	9900020019		743	Remote Control Unit Holder	9305642014	
233	Power Transformer	9900069018		759	Intake Grill-F	9368541019	
236	Controller PCB Assy	9707212082		764	Drain Cap	9367677009	
240	Remote Control Unit	9374322015		815	Terminal	9900016029	
321	Flap	9368544010		855	Cover Display	9369264016	
329	Coupling Pipe Assy	9371333014		855-1	Cover Display-B	9369594014	
338	Motor Holder-A	9368550004		855-2	Cover Display-C	9369683015	
				938	Control Box Cover-R	9368570002	
				942	Control Box Cover	9368611002	
				960	Diffuser Assy	9369346019	
				963	Fan Guard	9368588007	
				963-1	Fan Guard Holder	9368554002	
				---	Room Thermistor	9703299179	
				---	Pipe Thermistor	9703297076	

OUTDOOR UNIT

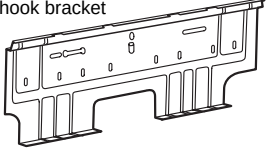
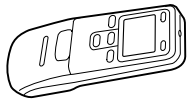
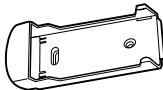
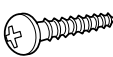
Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
		AOY30FNBDL				AOY30FNBDL	
2	Fan Cover (Guard)	9371187013		117-3	Hex. Nut w/Sp. Washer	301721180114	
4	Emblem-Rear	9371388014		187	Clamp No.1219	313361271706	
5	Cabinet-A, Painted	9359797029		218-3	Power Relay	9900074012	
9	Cabinet-B, Painted	9359798026		263	Accumulator	9385005006	
12	Base Assy, Painted	9359813019		272	Strainer	9369287008	
13	3-Way Valve Assy (5/8)	9372205037		328	Comp. Plate Assy	9362273060	
13-2	2-Way Valve Assy (3/8)	9372204047		373	Grip	9352157004	
16	Condenser Assy	9372866016		407	Clamp (Cable) No.1259	313739340109	
20	Discharge Pipe	9369047008		412	Cover Gasket	9371512013	
26	Comp. Cover	9369093005		420	Capillary Assy	9371287119	
29	Separate Wall	9359804017		477	Bell-mouth	9359809012	
32	Control Box Metal	9359839019		527	Protection Net	9359844013	
34	Capacitor (Fan Motor)	9357965024		549	Thermostat-Outdoor	9352553004	
37	Running Capacitor	9703107092		734	Cabinet Top Plate Panel	9359799023	
38	Capacitor Clamp	9351770013		754	Gasket Washer	9351053017	
39	Propeller Fan	9359837015		815-3	Terminal-8P	9358660119	
41	Fan Motor Assy	9601754015		817	Bracket (Thermo)	9372643013	
45-1	Motor Bracket-A	9369627002		823-2	Fuse Holder	0500063024	
45-2	Motor Bracket-B	9369628009		824-4	Fuse	0600222529	
45-3	Motor Bracket-C	9369629006		867	Accumulator Holder Rubber	9354022010	
45-4	Motor Bracket-D	9369630002		983	Thermostat Cover	9358274002	
46	Compressor Assy	9372558034		989-1	Cord Clamp-A	9359822011	
51	M5 Nut Special	9300301015		989-2	Cord Clamp-B	9359823018	
55	Special Nut M8	9355091008					
64	Cabinet Left, Painted	9359840022					
82-1	Check Joint	9372802014					
84	Valve Cover	9359817017					
85	Valve Fixing Plate	9359806011					
107	Rubber Mount	9351049010					
109	Terminal Cover	9371511016					

OUTDOOR UNIT

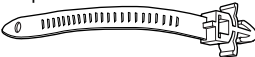
Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
		AOY30UNBDL				AOY30UNBDL	
2	Fan Cover (Guard)	9371187013		117-3	Hex. Nut w/Sp. Washer	301721180114	
4	Emblem-Rear "FUJITSU"	9371388014		187	Clamp No. 1219	313361271706	
5	Cabinet-A, Painted	9359797029		218-3	Power Relay	9900074012	
9	Cabinet-B, Painted	9359798026		263	Accumulator	9385005006	
12	Base Assy, Painted	9359813019		272	Strainer	9369287008	
13	3-Way Valve (5/8)	9372205037		328	Comp Plate Assy	9362273060	
13-2	3-Way Valve (3/8)	9372204047		342	Screw (Solenoid Valve)	9970024016	
16	Condenser Assy	9369981005		343	Solenoid	9900196011	
26	Comp. Cover	9369093005		344	4-Way Valve	9900163013	
29	Separate Wall	9359804017		373	Grip	9352157004	
32	Control Box Metal	9359839019		407	Clamp (Cable) No. 1259	313739340109	
34	Capacitor (Fan Motor)	9357965024		412	Terminal Gasket	9371512013	
37	Running Capacitor	9703107092		420	Capillary Assy	9371287102	
38	Capacitor Clamp	9351770013		477	Bell-Mouth	9359809012	
39	Propeller Fan Assy	9359837015		527	Protection Net	9359844013	
41	Fan Motor Assy	9601754015		734	Cabinet Top Panel	9359799023	
45-3	Motor Bracket-A	9369627002		735	Distributor Assy	9369076008	
45-4	Motor Bracket-B	9369628009		754	Gasket Washer	9351053017	
45-5	Motor Bracket-C	9369629006		772	Joint Pipe (Valve)	9372876015	
45-6	Motor Bracket-D	9369630002		815-3	Terminal-8P	9358660119	
46	Compressor Assy	9372558034		823-2	Fuse Holder	0500063024	
51	M5 Nut special	9300301015		824-4	Fuse	0600222529	
55	Special Nut M8	9355091008		867	Accumulator Holder Rubber	9354022010	
64	Cabinet Left, Painted	9359840022		989-1	Cord Clamp-A	9359822011	
81	Strap	9362371001		989-2	Cord Clamp-B	9359823018	
82-1	Check Joint	9372802014					
84	Valve Cover	9359817017					
85	Valve Fixing Plate	9359806011					
107	Rubber Mount	9351049010					
109	Terminal Cover	9371511016					

STANDARD ACCESSORIES

INDOOR UNIT

Name and Shape	Part No.
Wall hook bracket 	9368579005
Remote control unit 	9371190013 (AR-JW1) (Heat & Cool model) (Reverse cycle)
	9371190020 (AR-JW2) (Cooling only model)
Battery (penlight) 	0600185534
Remote control unit holder 	9305642014
Tapping screw (big) (φ 4 x 20) 	301141164200
Tapping screw (small) (φ 3 x 12) 	301141533125

OUTDOOR UNIT

Name and Shape	Part No.
Cable clip 	313739340109
Tapping screw 	301463040100
Drain pipe 	9303029015 [Heat & Cool model (Reverse cycle)only]
Drain cap 	313166024302 [Heat & Cool model (Reverse cycle)only]