

SPLIT TYPE
ROOM AIR CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL



Indoor unit	Outdoor unit
ASY30FBBJ	AOY30FNBDL
ASY30UBBJ	AOY30UNBDL

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SPECIFICATIONS

ELECTRICAL DATA

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
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

FAN MOTOR

POWER SOURCE		230 V
INDOOR UNIT	Discrimination	MFA-30HTT
	High speed	1,310 r.p.m.
	Medium 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.

COMPRESSOR AND REFRIGERANT

TYPE	Hermetic type, Deposit electrode condenser, 2 poles, Single phase, Induction motor, Rotary		
DISCRIMINATION	5JS315DAD		
WEIGHT (with oil)	24.6 kg		
PRECHARGED REFRIGERANT	2,300 g		
REFRIGERANT TYPE	R410A		
FULL CHARGE	Pipe length	7.5 m	2,300 g
		10 m	2,350 g
		15 m	2,450 g
		20 m	2,550 g
		25 m	2,650 g
		30 m	2,750 g
ADDITIONAL CHARGE		20 g/m	40 g/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

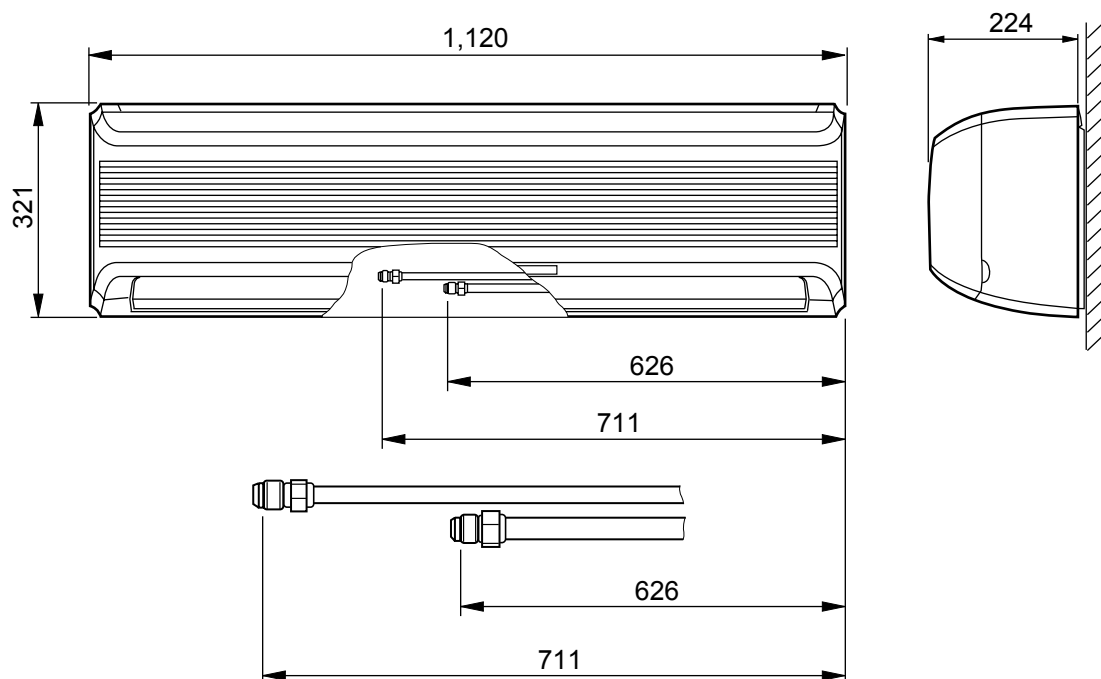
WEIGHT

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

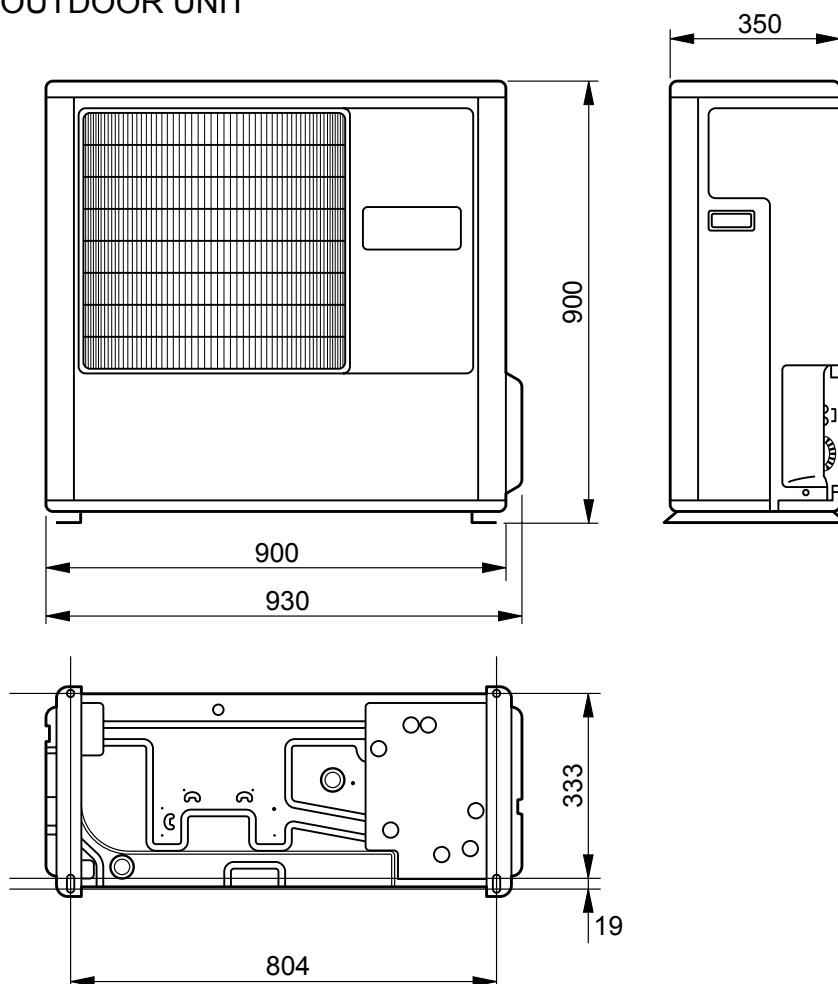
OUTLINE AND DIMENSIONS

Unit : mm

INDOOR UNIT



OUTDOOR UNIT



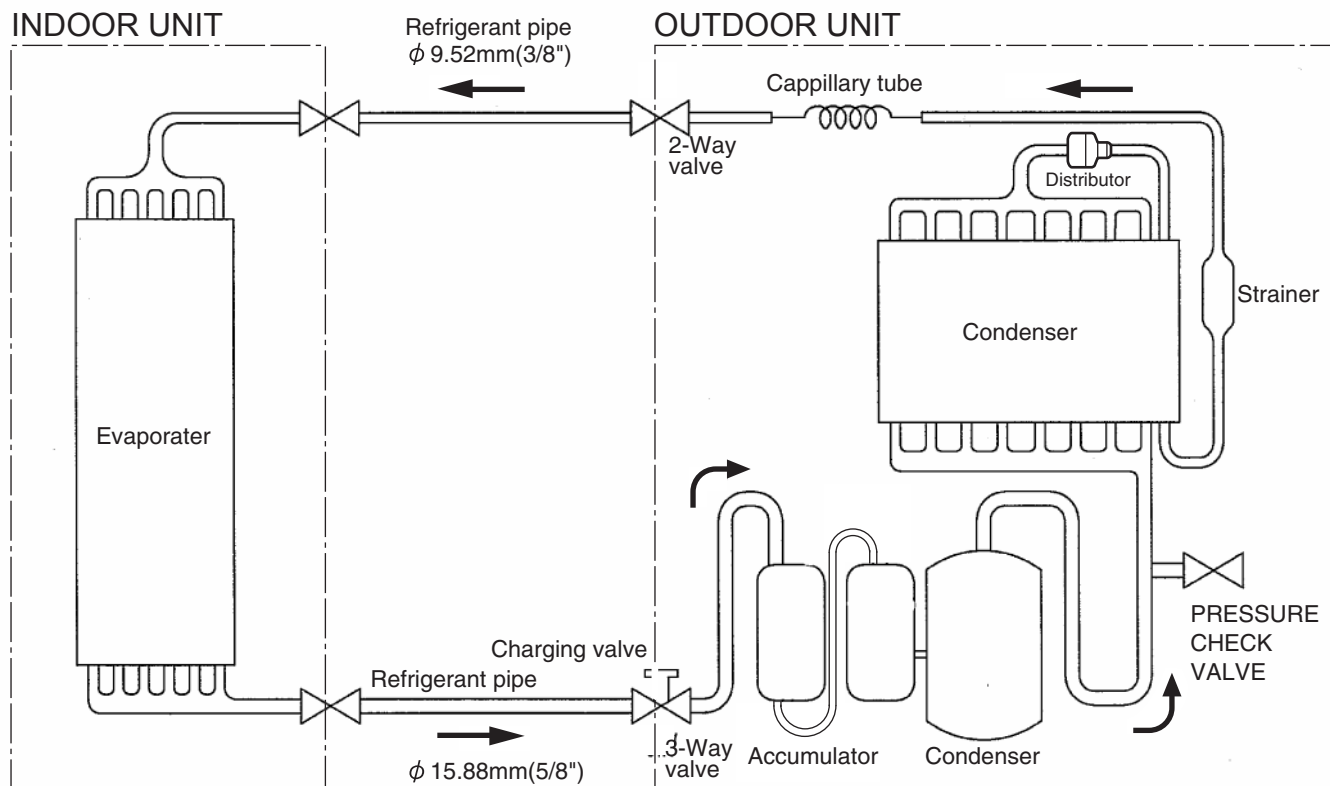
REFRIGERANT SYSTEM DIAGRAM

Refrigerant direction

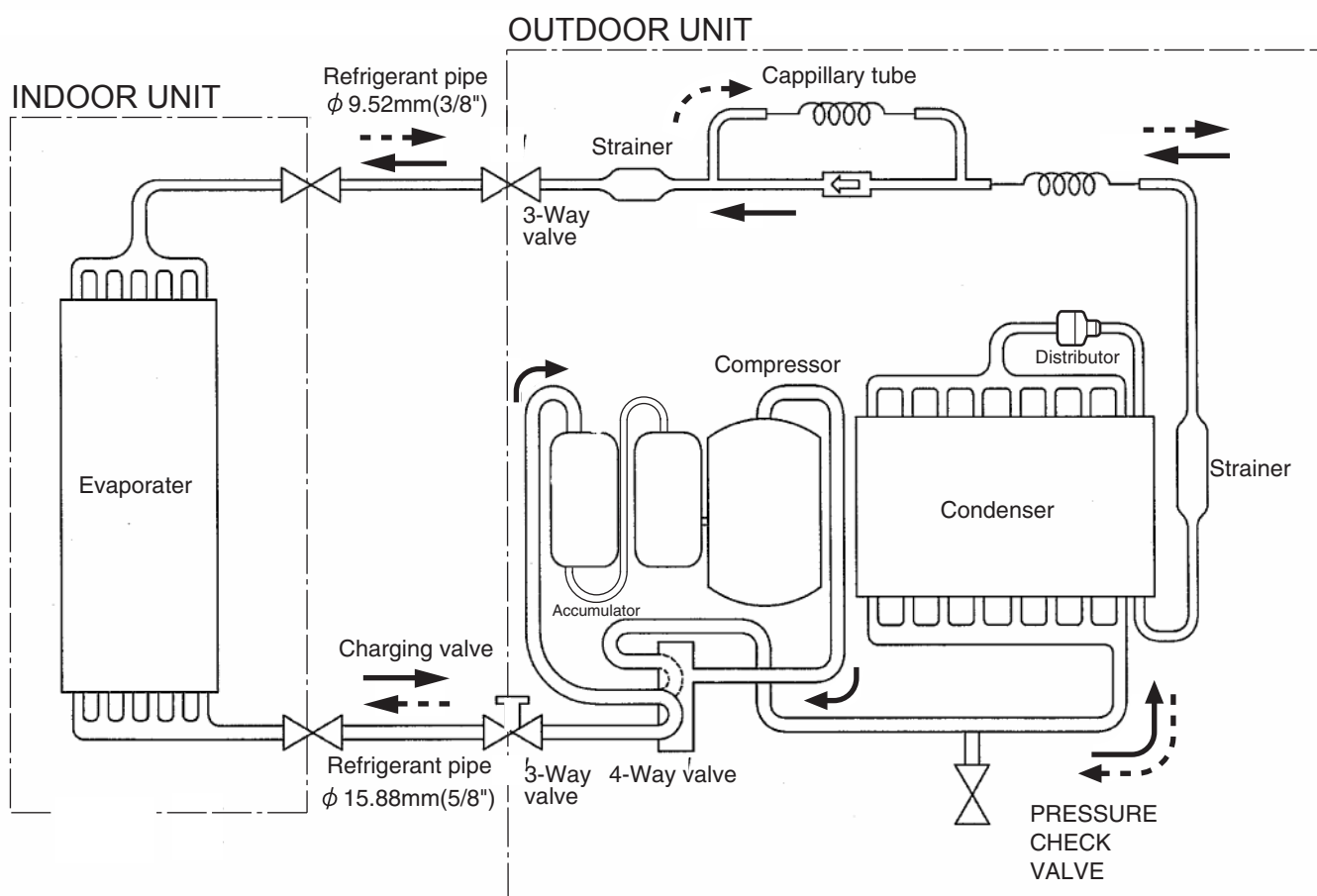
→ Cooling

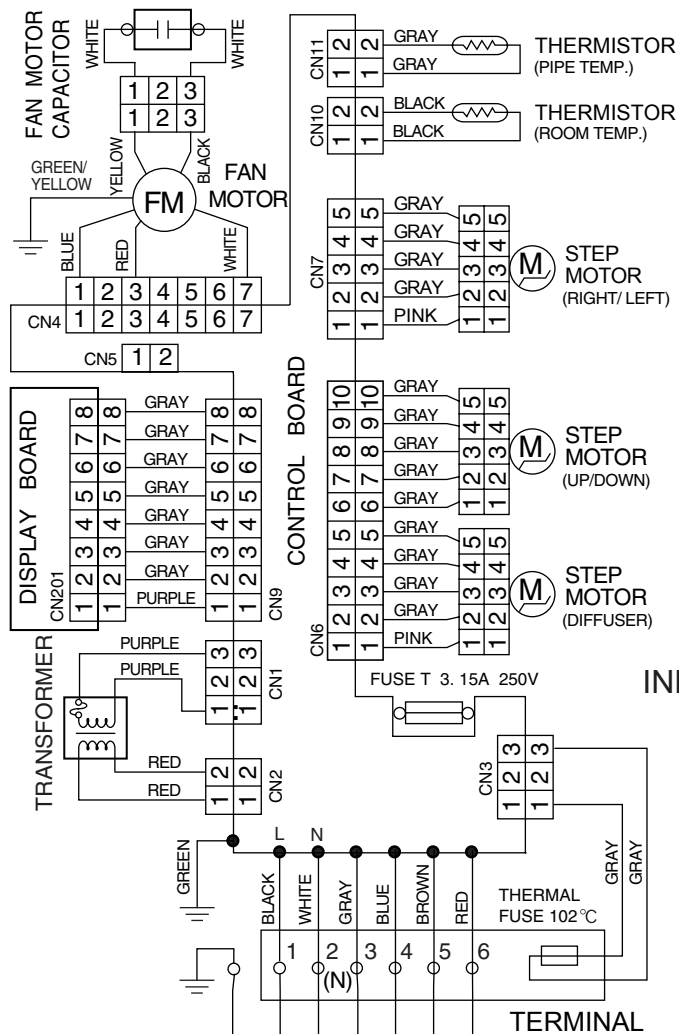
---> Heating

Models : ASY30FBBJ / AOY30FNBDL

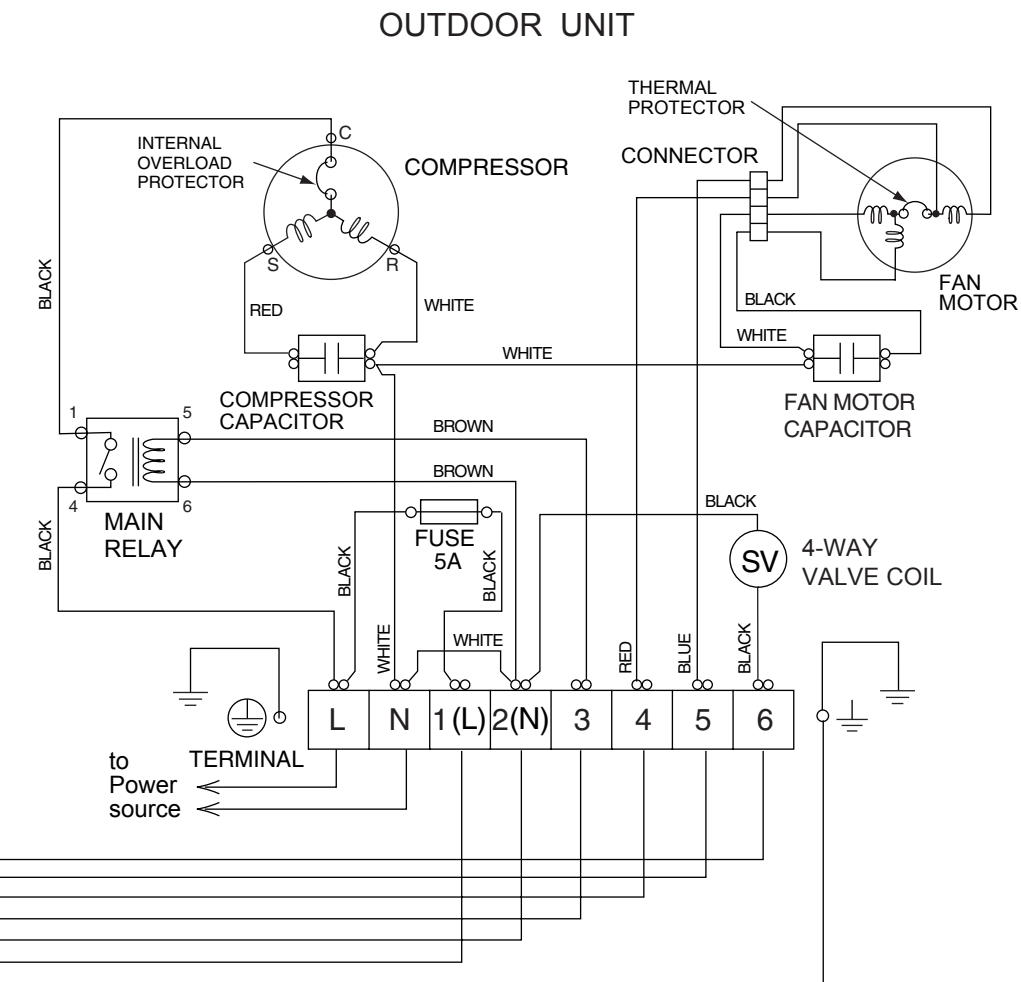


Models : ASY30UBBJ / AOY30UNBDL





Models : ASY30UBBJ / AOY30UNBDL



CONTROLLER PCB ASSEMBLY
ASY30FBBJ : K05EF-050EWSE-C1



Switch	Function	ON/Linked	OFF/Open
JM1	High ceiling	standard	High Ceiling 1
JM2 / JM3	Custom code	(See table 2)	
JM4	Auto restart	enable	disable
JM5 / JM6	Heating compensation	(See table 1)	

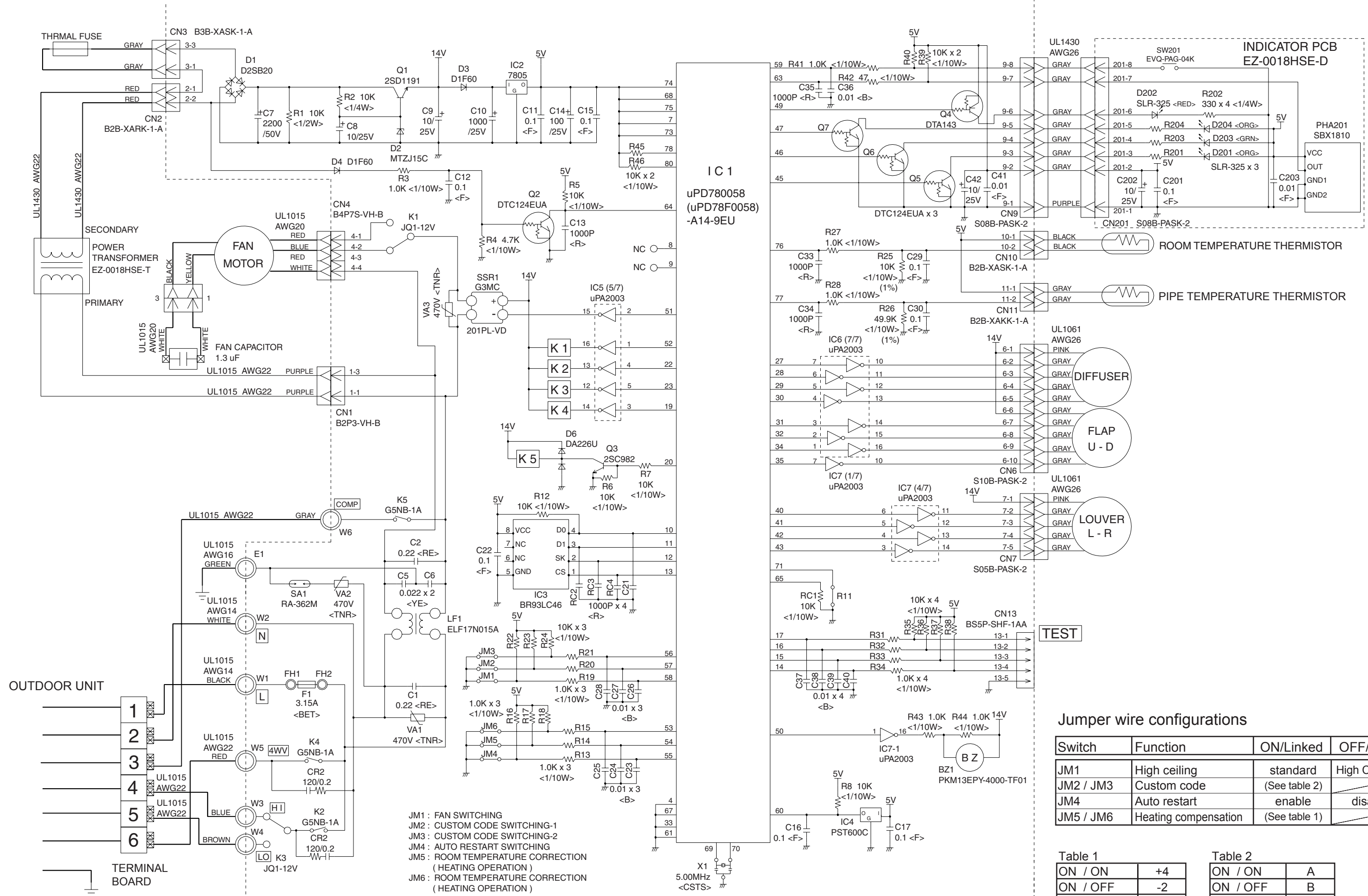
Table 1

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

Table 2

ON / ON	A
ON / OFF	B
OFF / ON	C
OFF / OFF	D

CONTROLLER PCB ASSEMBLY
ASY30UBBJ : K05EF-0507HSE-C1



ERROR DISPLAY

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

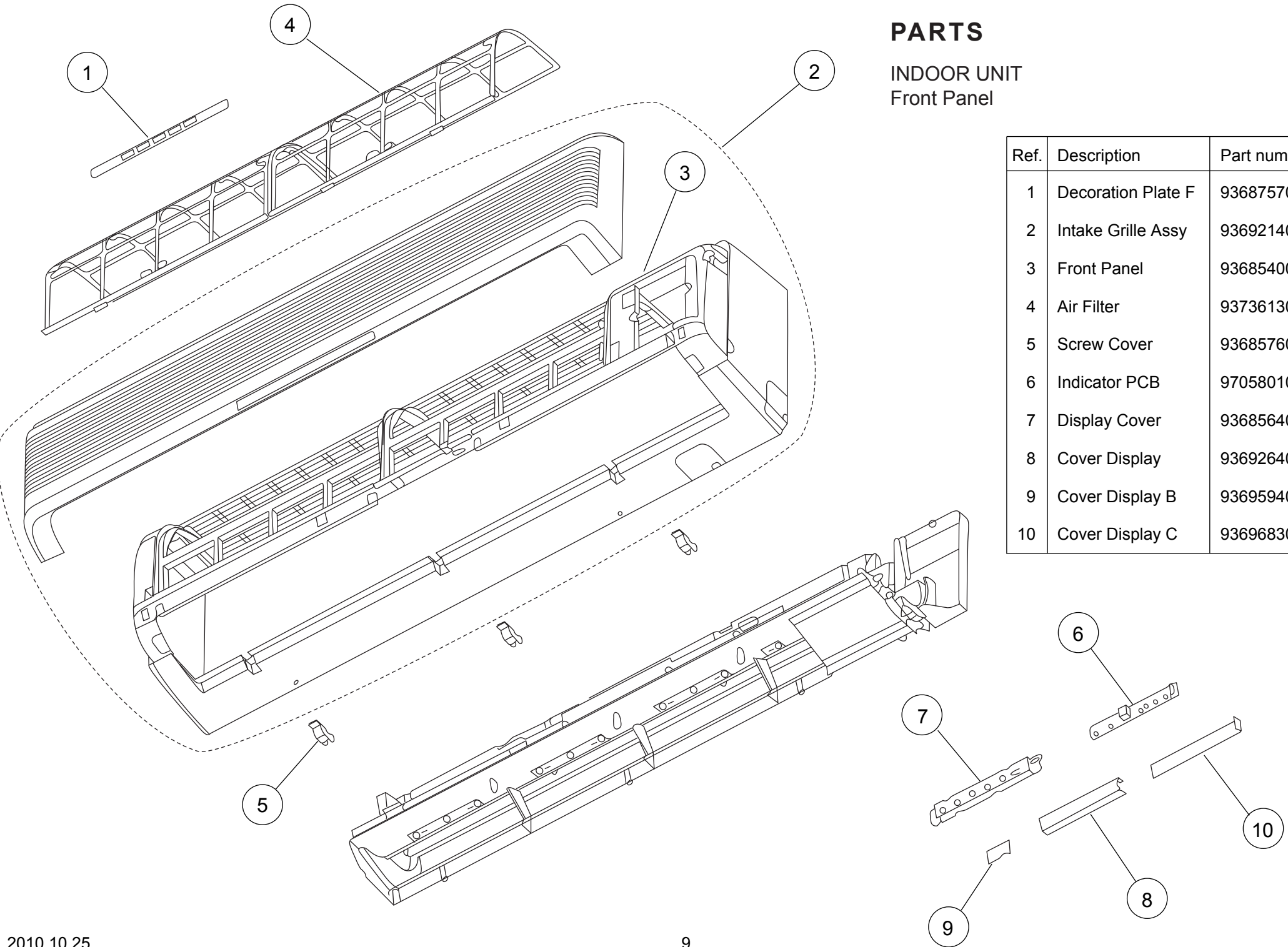
○ : Fast flashing ● : Slow flashing — : Off

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 ●	○	—

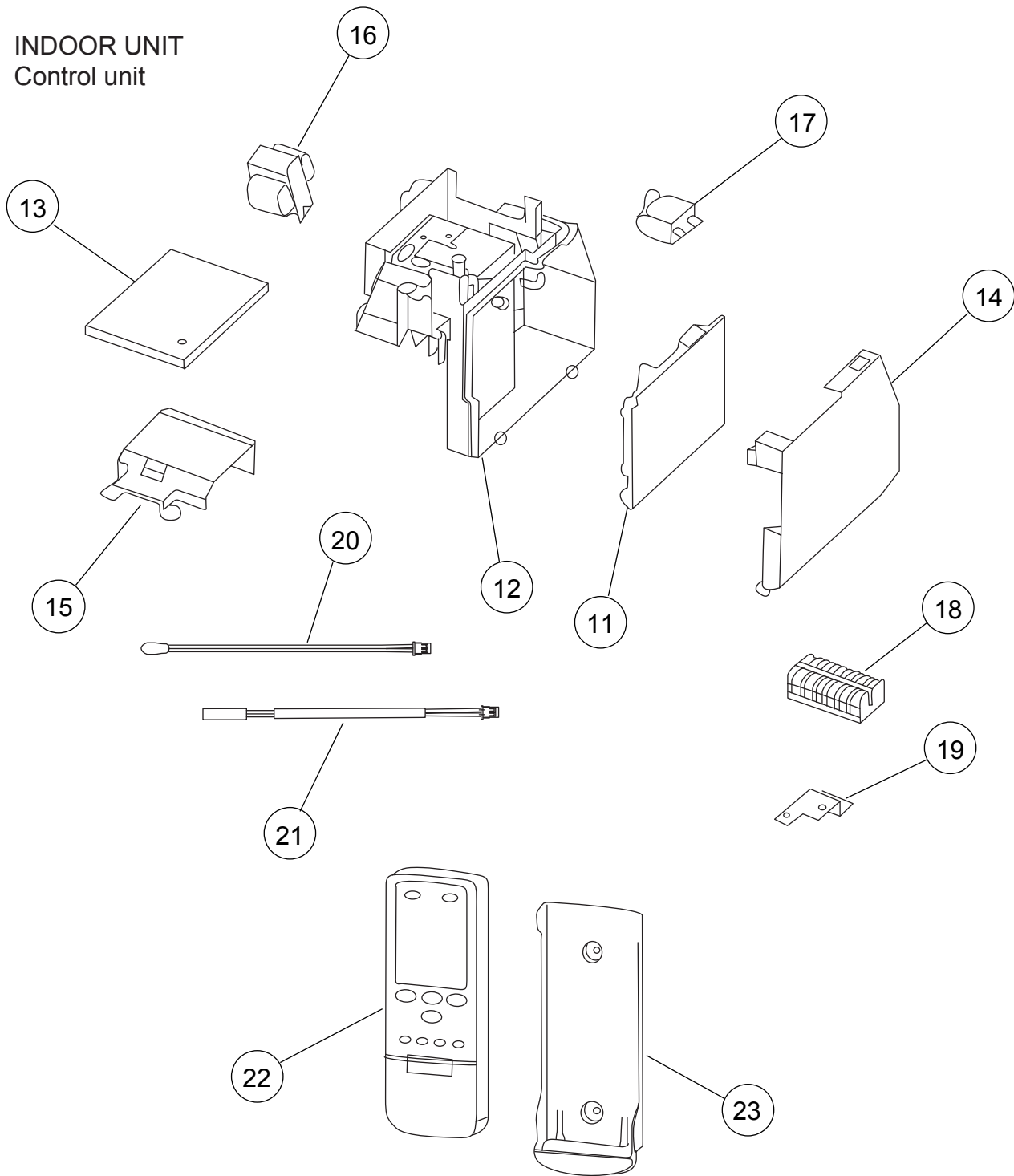
PARTS

INDOOR UNIT
Front Panel

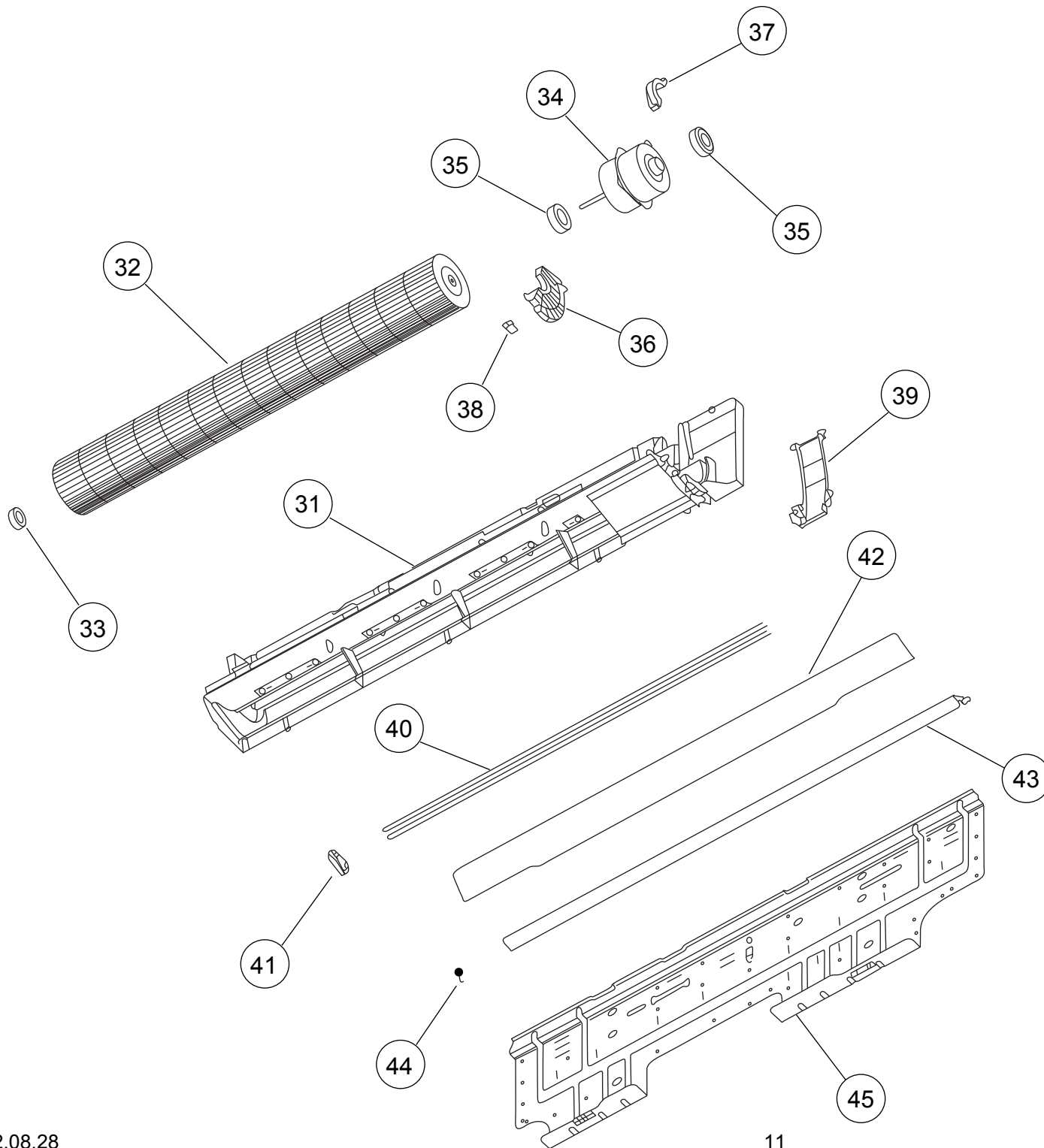
Ref.	Description	Part number	
1	Decoration Plate F	9368757014	
2	Intake Grille Assy	9369214011	
3	Front Panel	9368540012	
4	Air Filter	9373613015	
5	Screw Cover	9368576011	
6	Indicator PCB	9705801028	
7	Display Cover	9368564001	
8	Cover Display	9369264016	
9	Cover Display B	9369594014	
10	Cover Display C	9369683015	



INDOOR UNIT
Control unit

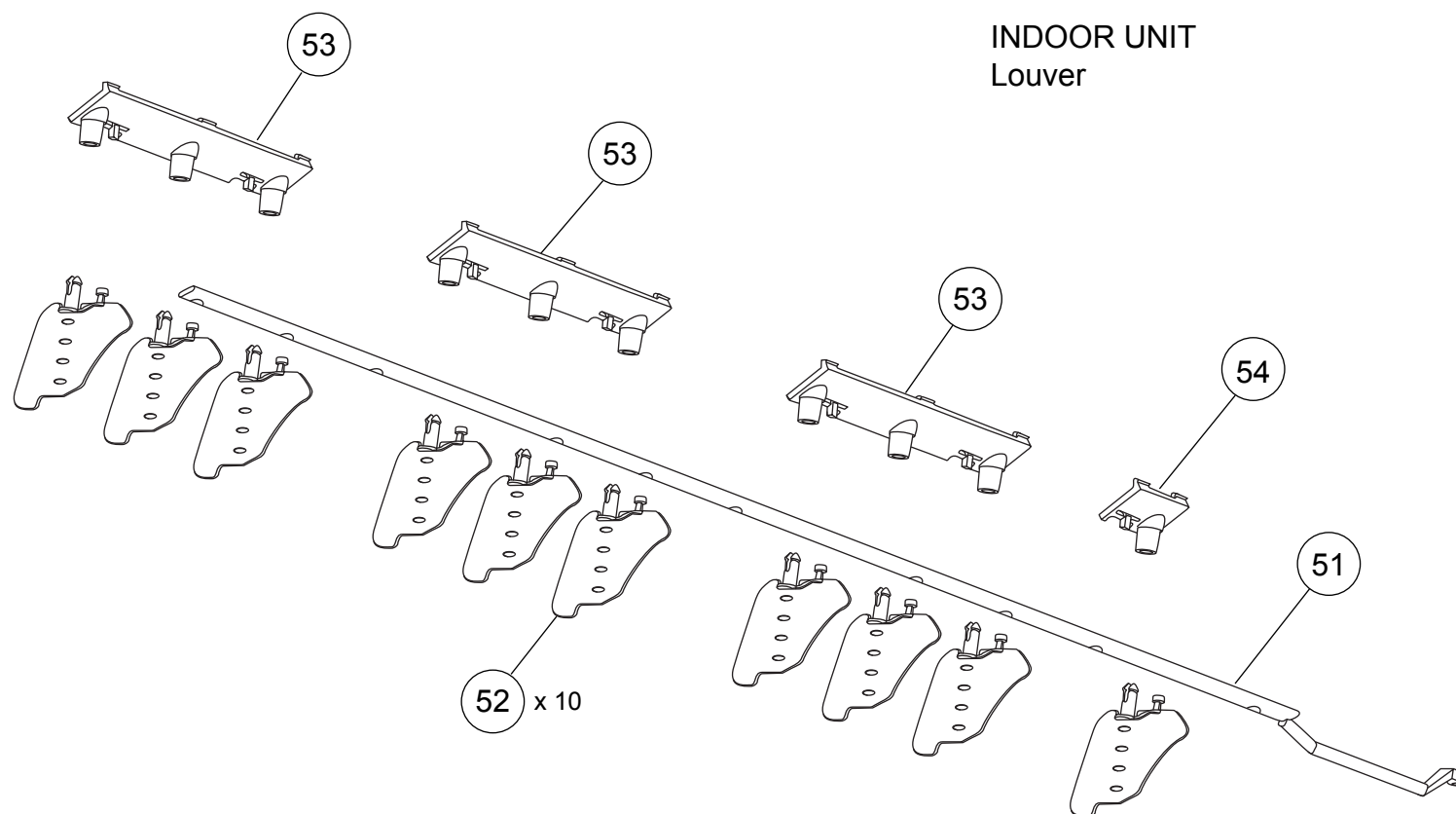


Ref.	Description	Part number	
11	Controller PCB (FBBJ)	9707212150	
11	Controller PCB (UBBJ)	9707212082	
12	Control Box	9368543006	
13	Control Box Cover	9368611002	
14	Control Box Cover R	9368570002	
15	Cord Holder	9368566005	
16	Power Transformer	9900069018	
17	Capacitor (Fan Motor)	9704305060	
18	Terminal	9900016029	
19	Earth Plate	9368580001	
20	Room Thermistor	9900541002	
21	Pipe Thermistor	9900542009	
22	Remote Control (FBBJ)	9371190020	
22	Remote Control (UBBJ)	9371190013	
23	Remote Control Holder	9305642014	



INDOOR UNIT

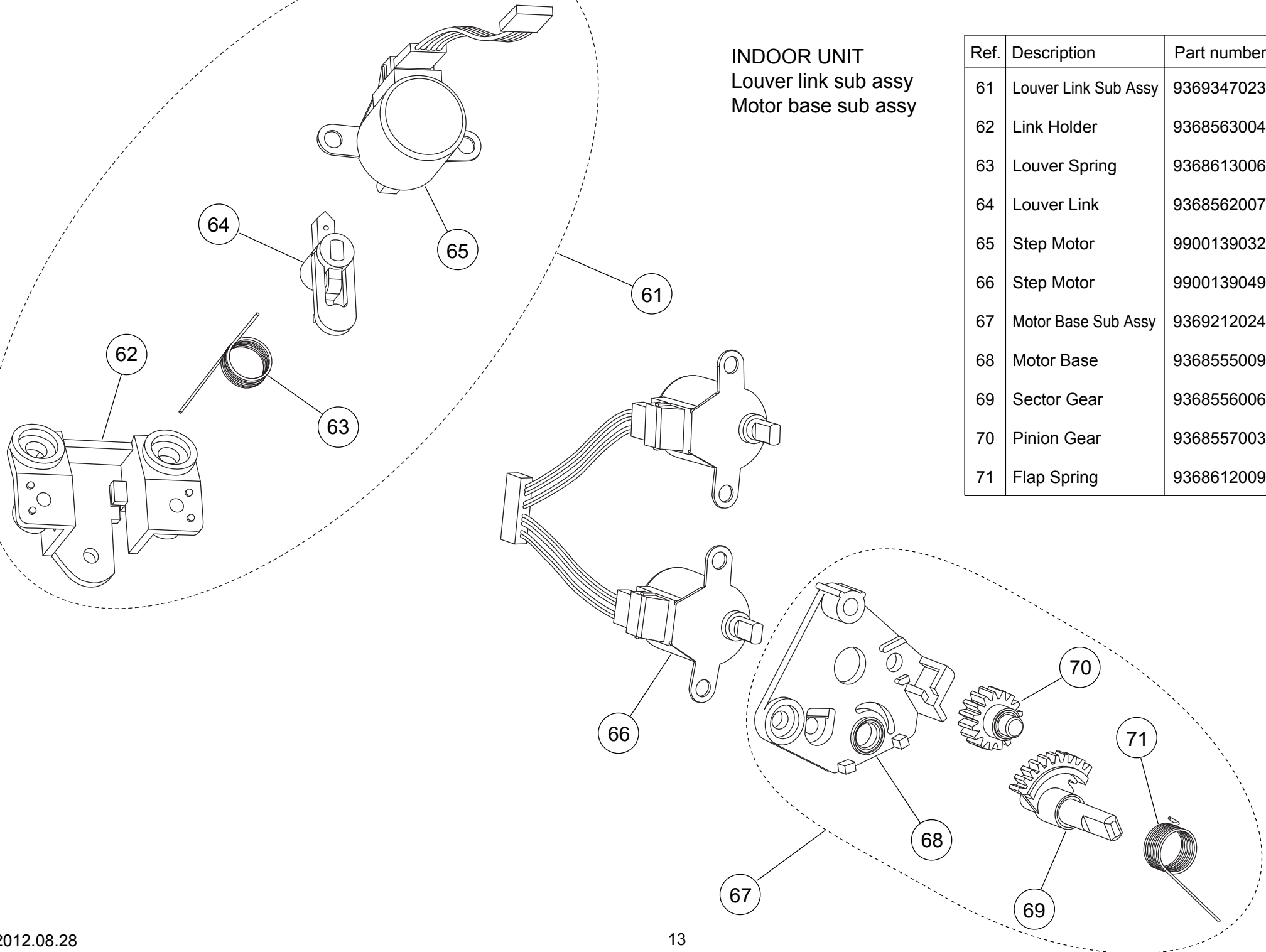
Ref.	Description	Part number	
31	Base Assy	9369209017	
32	Cross Flow Fan Assy	9368586003	
33	Bearing Assy	9368574000	
34	Fan Motor Assy	9601388012	
35	Motor Rubber	9603214012	
36	Motor Holder A	9368550004	
37	Motor Holder B	9368551001	
38	Motor Holder C	9368769000	
39	Kit (Pipe Holder)	9371168012	
40	Fan Guard	9368588007	
41	Kit (Fan Guard Holder)	9371164014	
42	Kit (Flap)	9371169019	
43	Diffuser Assy	9369346019	
44	Diffuser Spring	9368587000	
45	Wall Hook Bracket	9368579005	

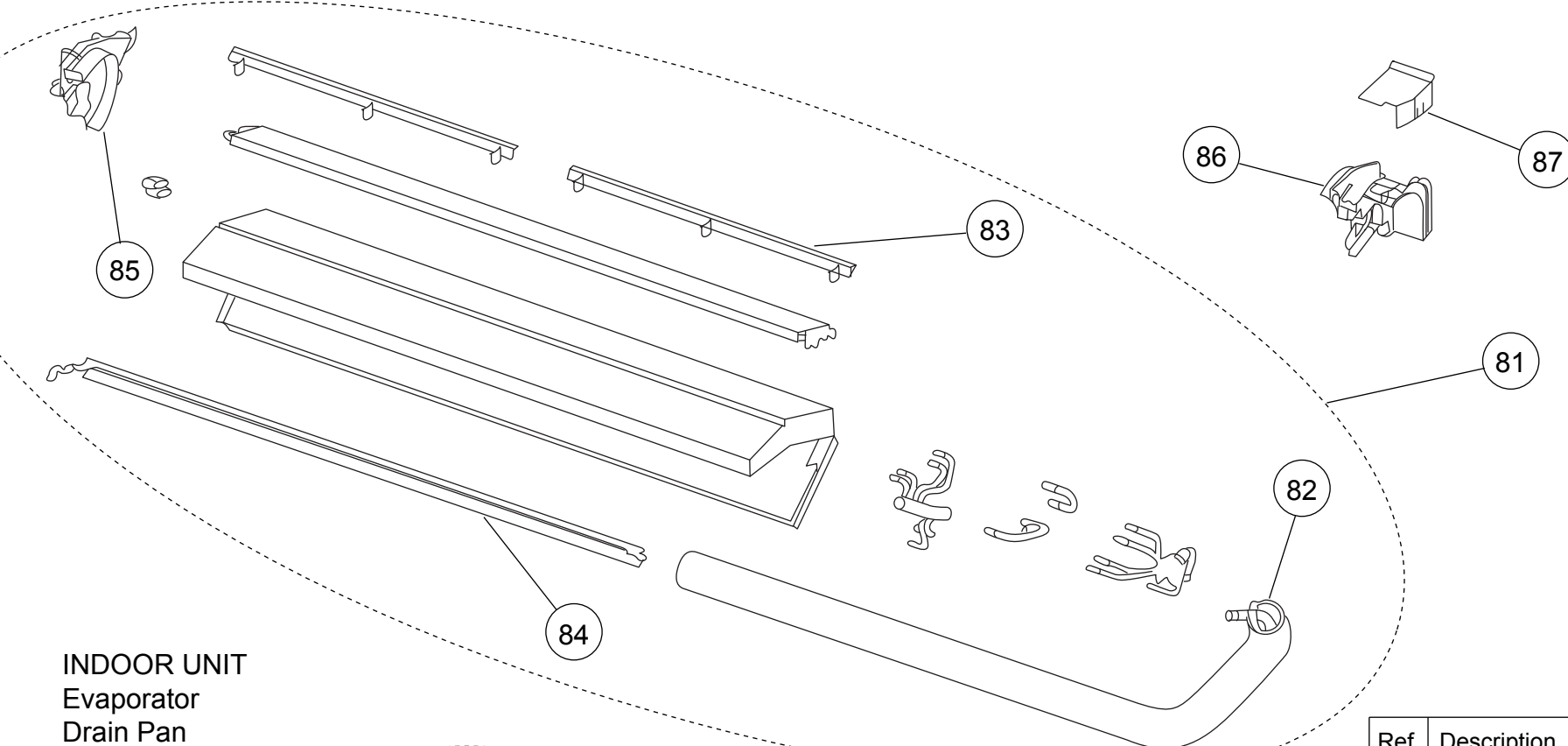


Ref.	Description	Part number	
51	Louver Rod	9368561017	
52	Louver	9368560010	
53	Louver Base A	9368558017	
54	Louver Base B	9368559014	

INDOOR UNIT
Louver link sub assy
Motor base sub assy

Ref.	Description	Part number
61	Louver Link Sub Assy	9369347023
62	Link Holder	9368563004
63	Louver Spring	9368613006
64	Louver Link	9368562007
65	Step Motor	9900139032
66	Step Motor	9900139049
67	Motor Base Sub Assy	9369212024
68	Motor Base	9368555009
69	Sector Gear	9368556006
70	Pinion Gear	9368557003
71	Flap Spring	9368612009



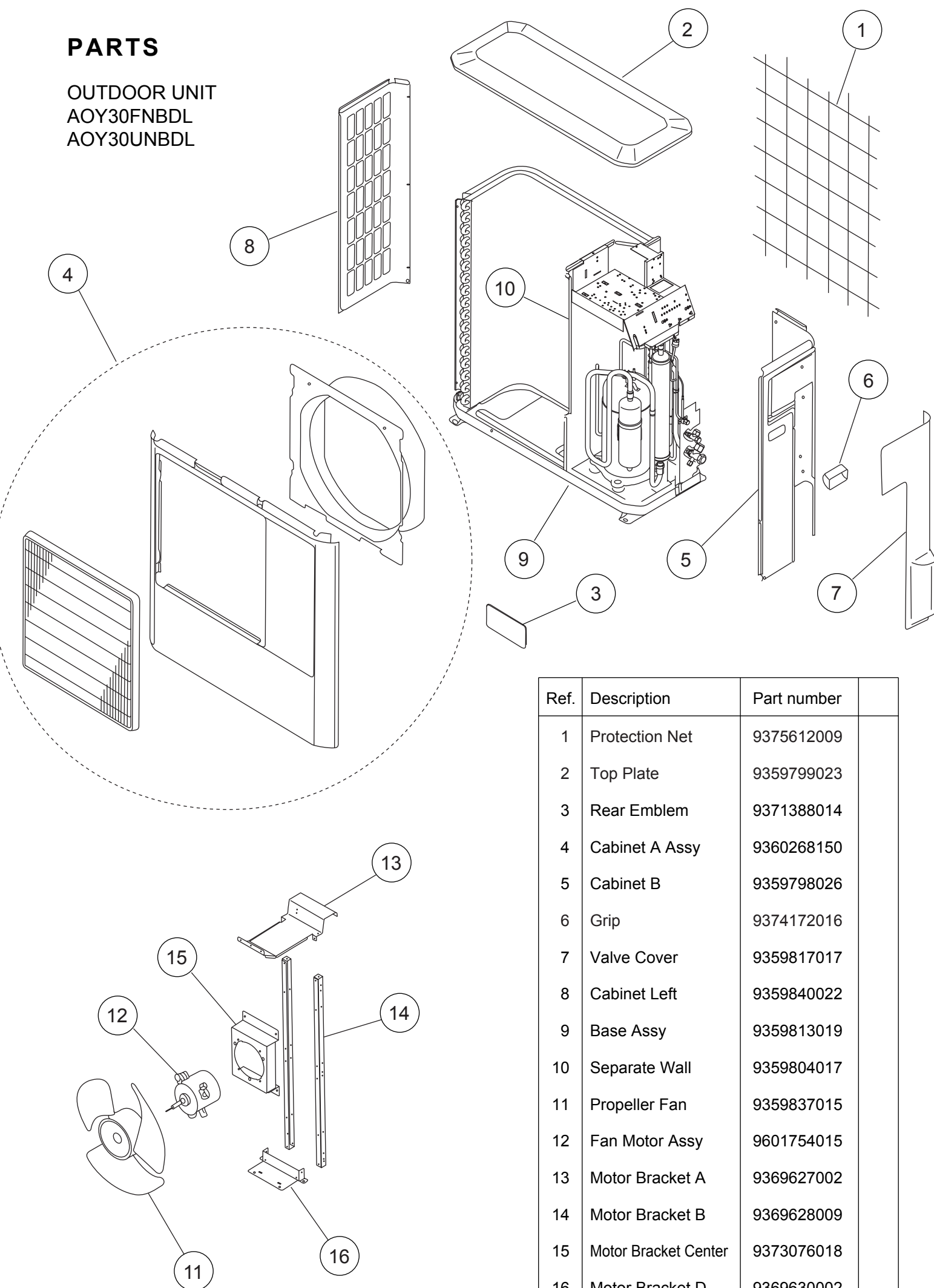


INDOOR UNIT
Evaporator
Drain Pan

Ref.	Description	Part number	
81	Evaporator Sub Assy	9369202193	
82	Joint Pipe Assy	9380350279	
83	Water Plate	9368569006	
84	Kit (Evaporator Bracket)	9371166018	
85	Kit (Evaporator Support L)	9371165011	
86	Kit (Evaporator Support R)	9371167015	
87	Water Seal Plate	9369684005	
88	Kit (Front Drain Pan)	9370932034	
89	Drain Cap	9316552012	
90	Kit (Drain Hose)	9370933017	
91	Rear Drain Pan Sub Assy	9369201028	

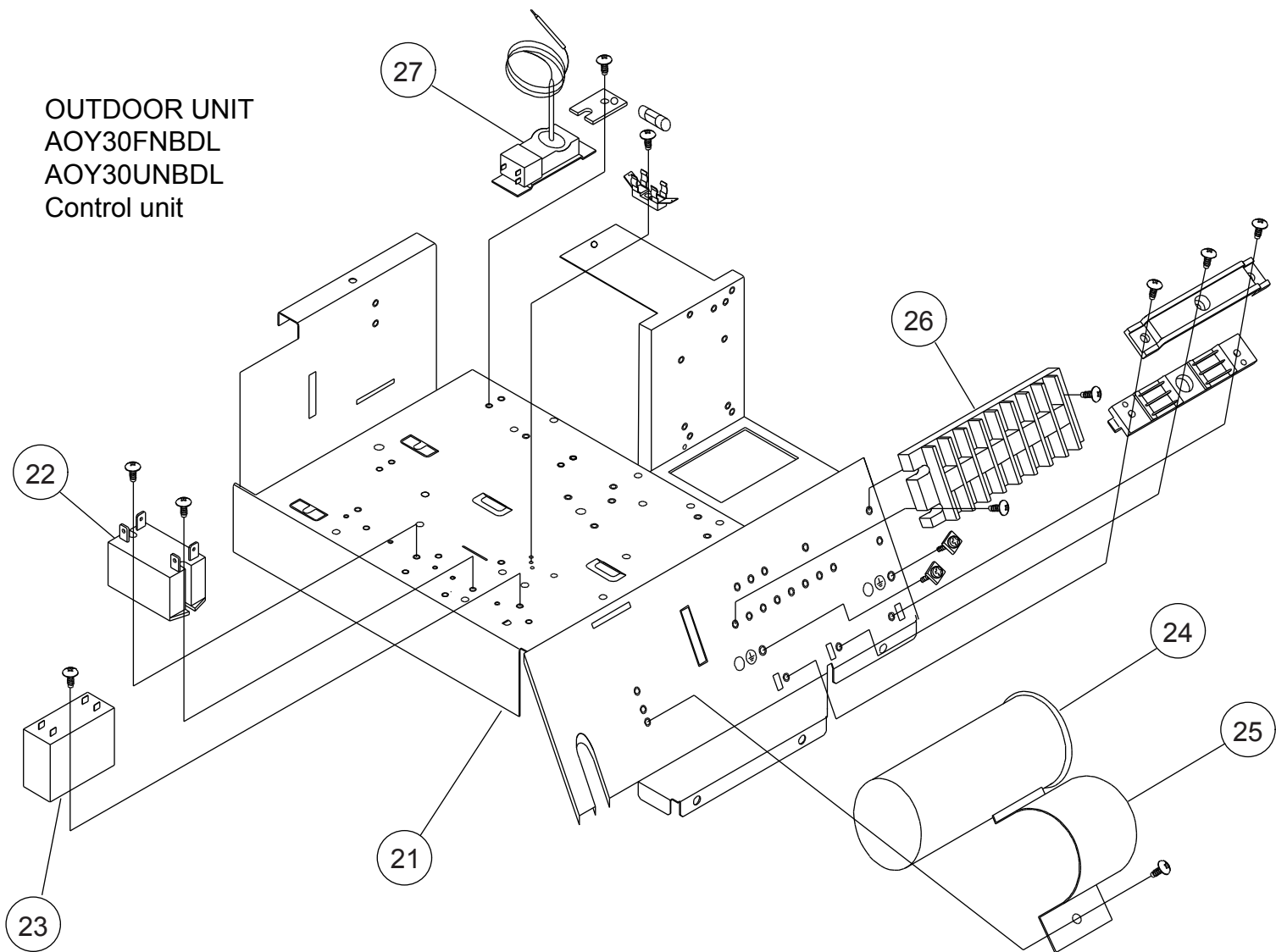
PARTS

OUTDOOR UNIT
AOY30FNBDL
AOY30UNBDL



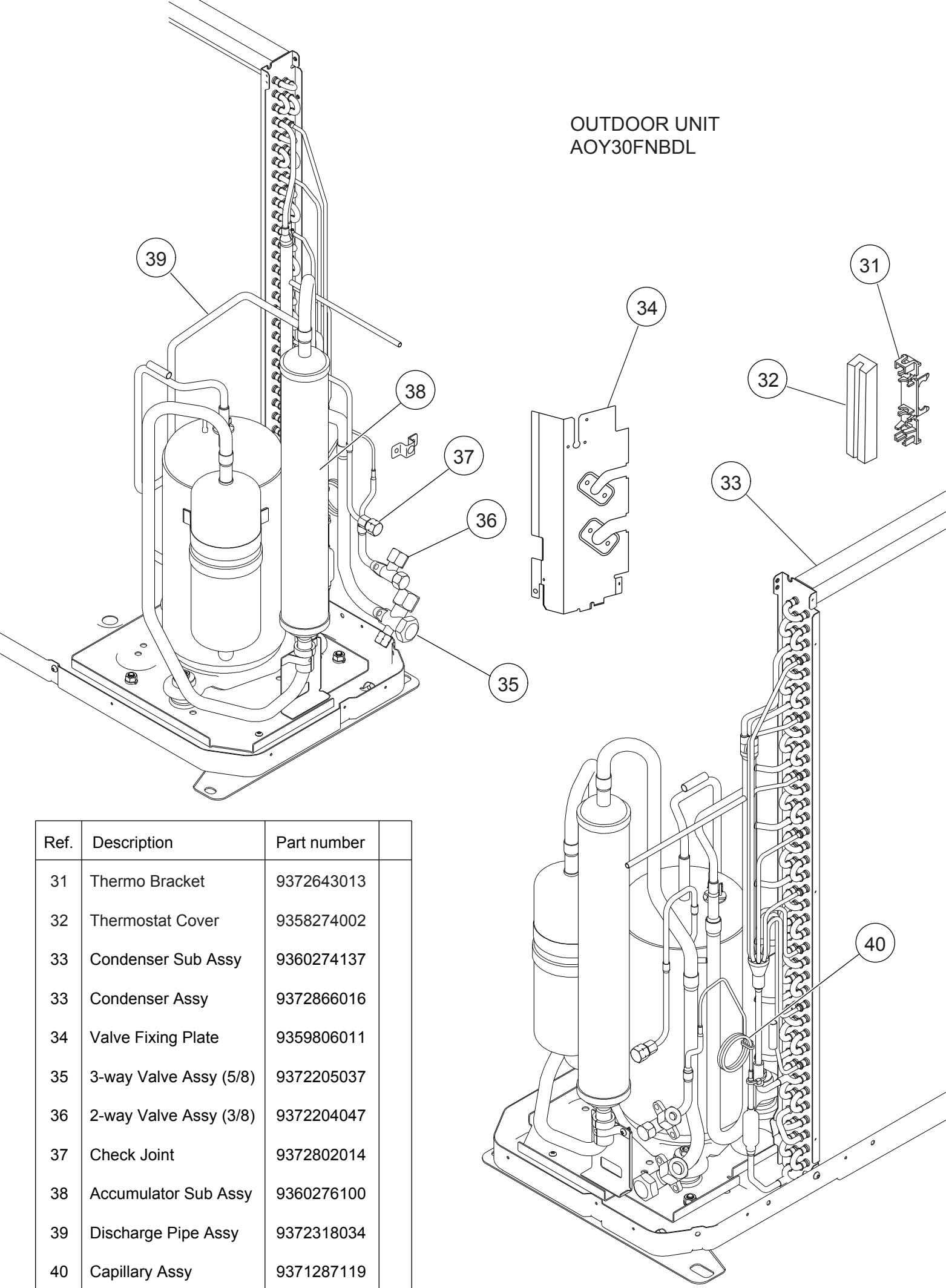
Ref.	Description	Part number	
1	Protection Net	9375612009	
2	Top Plate	9359799023	
3	Rear Emblem	9371388014	
4	Cabinet A Assy	9360268150	
5	Cabinet B	9359798026	
6	Grip	9374172016	
7	Valve Cover	9359817017	
8	Cabinet Left	9359840022	
9	Base Assy	9359813019	
10	Separate Wall	9359804017	
11	Propeller Fan	9359837015	
12	Fan Motor Assy	9601754015	
13	Motor Bracket A	9369627002	
14	Motor Bracket B	9369628009	
15	Motor Bracket Center	9373076018	
16	Motor Bracket D	9369630002	

OUTDOOR UNIT
AOY30FNBDL
AOY30UNBDL
Control unit

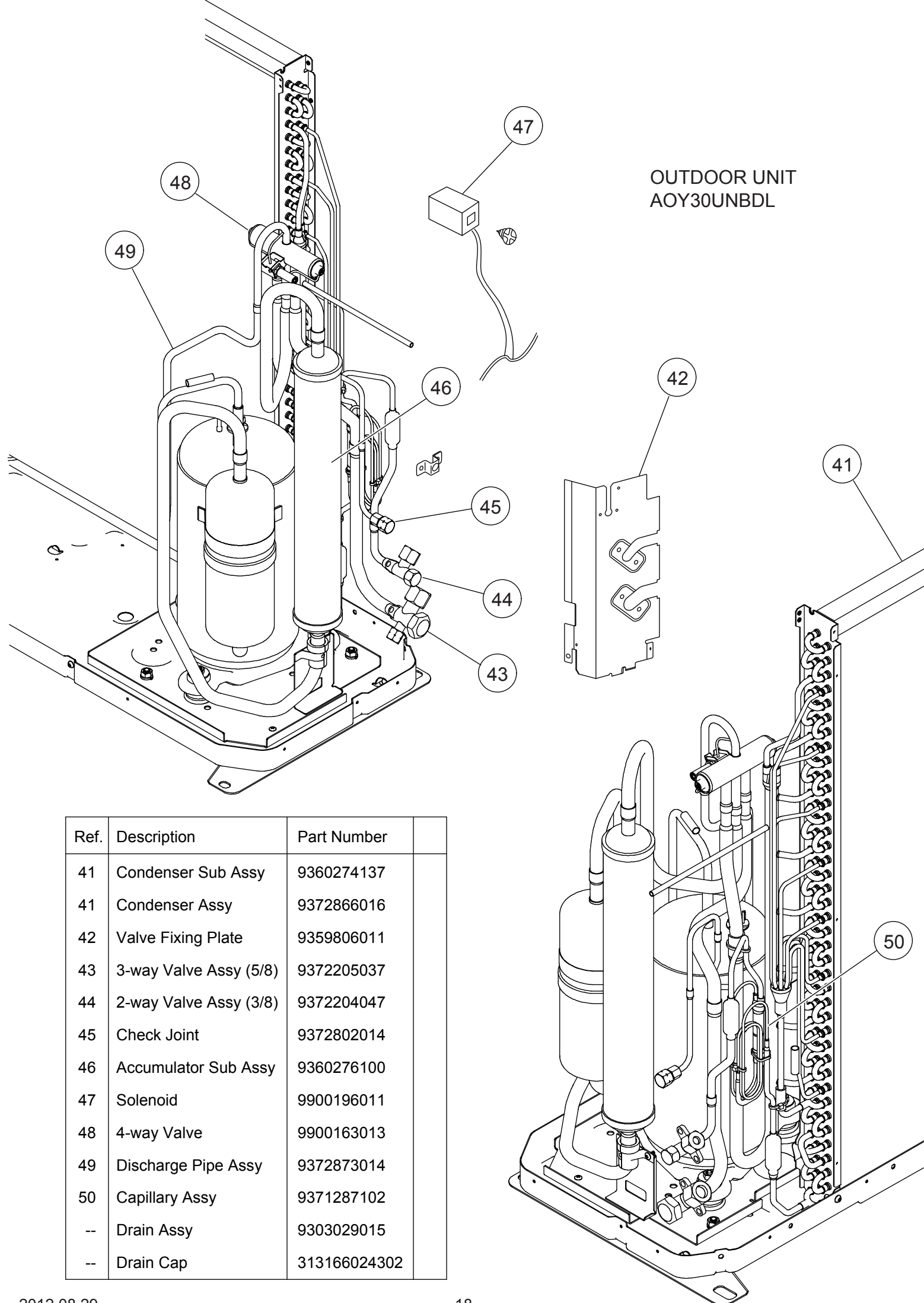


Ref.	Description	Part number	
21	Control Box	9359839019	
22	Power Relay	9900074012	
23	Capacitor (Fan Motor)	9900270049	
24	Running Capacitor	9703107092	
25	Capacitor Clamp	9351770013	
26	Terminal 8P	9900203047	
27	Thermostat Outdoor (FNBDL)	9900526030	

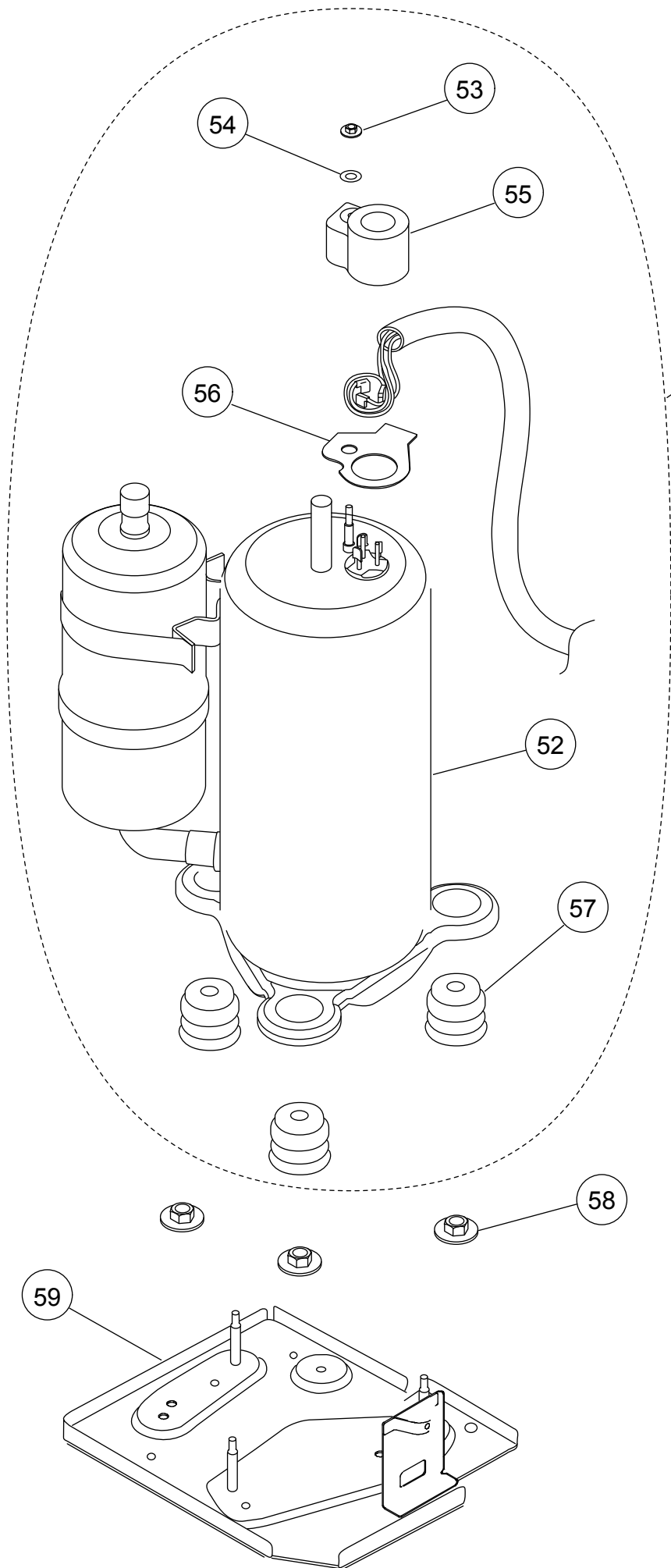
OUTDOOR UNIT
AOY30FNBDL



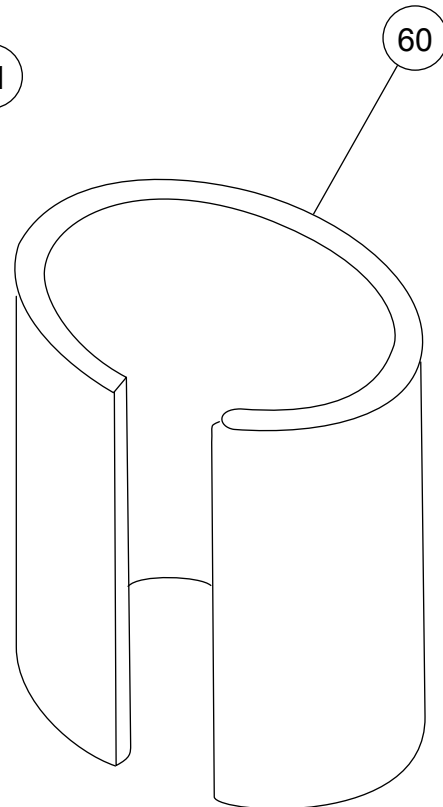
Ref.	Description	Part number
31	Thermo Bracket	9372643013
32	Thermostat Cover	9358274002
33	Condenser Sub Assy	9360274137
33	Condenser Assy	9372866016
34	Valve Fixing Plate	9359806011
35	3-way Valve Assy (5/8)	9372205037
36	2-way Valve Assy (3/8)	9372204047
37	Check Joint	9372802014
38	Accumulator Sub Assy	9360276100
39	Discharge Pipe Assy	9372318034
40	Capillary Assy	9371287119



Ref.	Description	Part Number	
41	Condenser Sub Assy	9360274137	
41	Condenser Assy	9372866016	
42	Valve Fixing Plate	9359806011	
43	3-way Valve Assy (5/8)	9372205037	
44	2-way Valve Assy (3/8)	9372204047	
45	Check Joint	9372802014	
46	Accumulator Sub Assy	9360276100	
47	Solenoid	9900196011	
48	4-way Valve	9900163013	
49	Discharge Pipe Assy	9372873014	
50	Capillary Assy	9371287102	
--	Drain Assy	9303029015	
--	Drain Cap	313166024302	



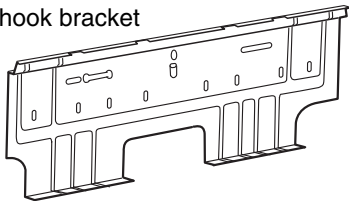
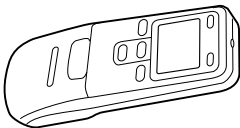
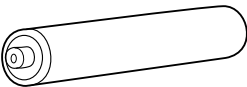
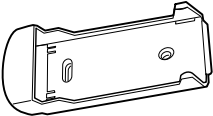
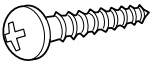
OUTDOOR UNIT
AOY30FNBDL
AOY30UNBDL
Compressor



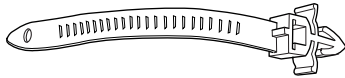
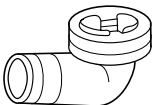
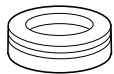
Ref.	Description	Part number	
51	Compressor Sub Assy	9360275172	
52	Compressor Assy	9372558034	
53	Gasket Washer	9351053017	
54	M5 Nut special	9300301015	
55	Terminal Cover	9371511016	
56	Cover Gasket	9371512013	
57	Rubber Seat	9351049010	
58	Special Nut	9355091008	
59	Compressor Plate Assy	9362273060	
60	Compressor Cover	9369093005	

ACCESSORIES

INDOOR UNIT

Name and Shape	Part No.
Wall hook bracket 	9368579005
Remote control 	9371190013 (AR-JW1) (ASY30UBBJ)
	9371190020 (AR-JW2) (ASY30FBBJ)
Battery (penlight) 	0600185534
Remote control holder 	9305642014
Tapping screw (big) (φ4 x 20) 	301141164200
Tapping screw (small) (φ3 x 12) 	301141533125

OUTDOOR UNIT

Name and Shape	Part No.
Cable clip 	313739340109
Tapping screw 	301463040100
Drain pipe 	9303029015 (AOY30UNBDL)
Drain cap 	313166024302 (AOY30UNBDL)

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