

INVERTER MULTI
AIR CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL



Indoor unit	Outdoor unit
ASY18LMA-W	AOY24LMAM2
ASY18LBAJ	

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SPECIFICATIONS

ELECTRICAL DATA (INDOOR UNIT)

COOLING CAPACITY	5.2 kW
HEATING CAPACITY	6.0 kW
MOISTURE REMOVAL	2.2 L/hr
AIR CIRCULATION HIGH	950 m3/hr

ELECTRICAL DATA (OUTDOOR UNIT)

ELECTRICAL DATA (COPBOOK ONLY)		
POWER SOURCE		230 V
FREQUENCY		50 Hz
COOLING CAPACITY (MAX)		5.8 kW (7.8 kW)
HEATING CAPACITY (MAX)		6.4 kW (9.0 kW)
RUNNING CURRENT (MAX)	COOLING	7.6 A (12.2 A)
	HEATING	7.2 A (12.2 A)
INPUT WATTS (MAX)	COOLING	1.73 kW (2.77 kW)
	HEATING	1.64 kW (2.77 kW)
E.E.R.	COOLING	3.35 kW/kW
	HEATING	3.90 kW/kW

FAN MOTOR

POWER SOURCE		230 - 240 V
INDOOR UNIT	DISCRIMINATION	MFA-30HTT
	HI	1,160 - 1,180 r.p.m.
	MED	1,000 - 1,020 r.p.m.
	LO	850 - 870 r.p.m.
	QUIET	800 - 820 r.p.m.
OUTDOOR UNIT		780 - 790 r.p.m.

NOISE LEVEL

INDOOR UNIT	HI	43 dB
	LO	32 dB
OUTDOOR UNIT	COOLING	49 dB
	HEATING	50 dB

COMPRESSOR

TYPE	Hermetic type, Inverter, 4 poles, Three phase, DC motor, Rotary
DISCRIMINATION	TNB 220 FPCM
REFRIGERANT R410A	1,900 g

DIMENSIONS

INDOOR UNIT	H x W x D	320 x 1,120 x 220 mm
OUTDOOR UNIT	H x W x D	650 x 830 x 320 mm

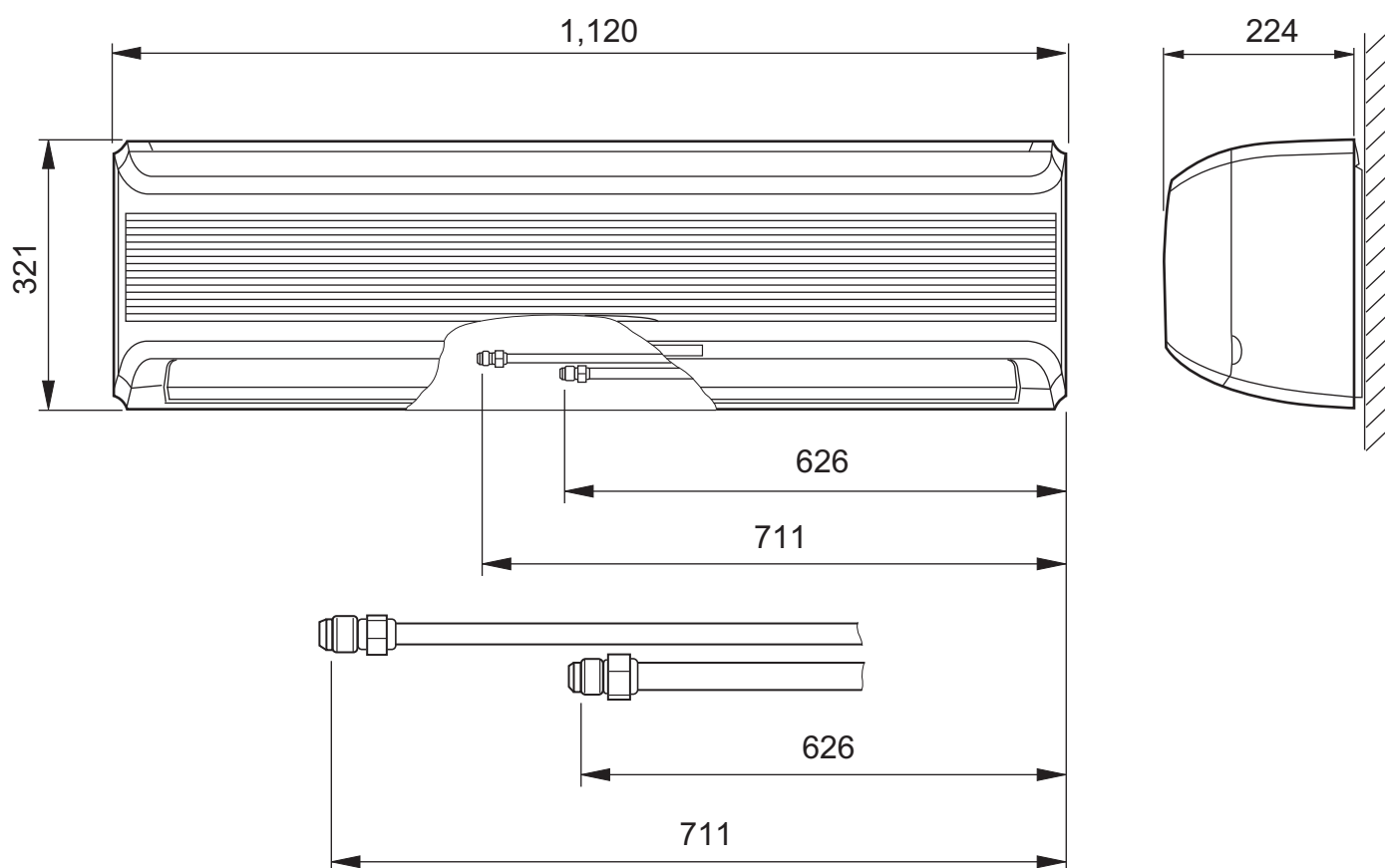
WEIGHT

INDOOR UNIT	Gross / Net	22 kg / 16 kg
OUTDOOR UNIT	Gross / Net	62 kg / 56 kg

OUTLINE AND DIMENSIONS

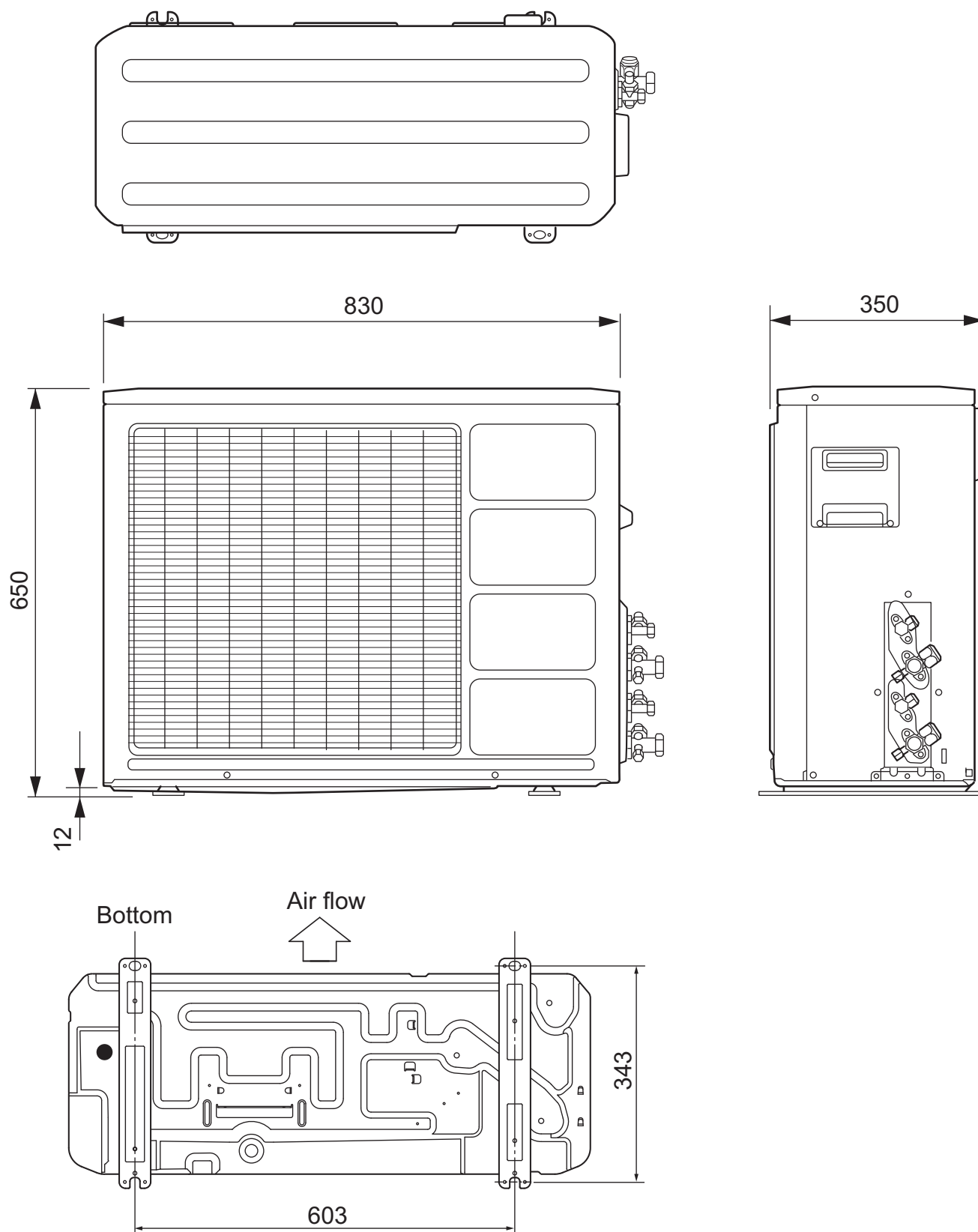
INDOOR UNIT

Unit : mm

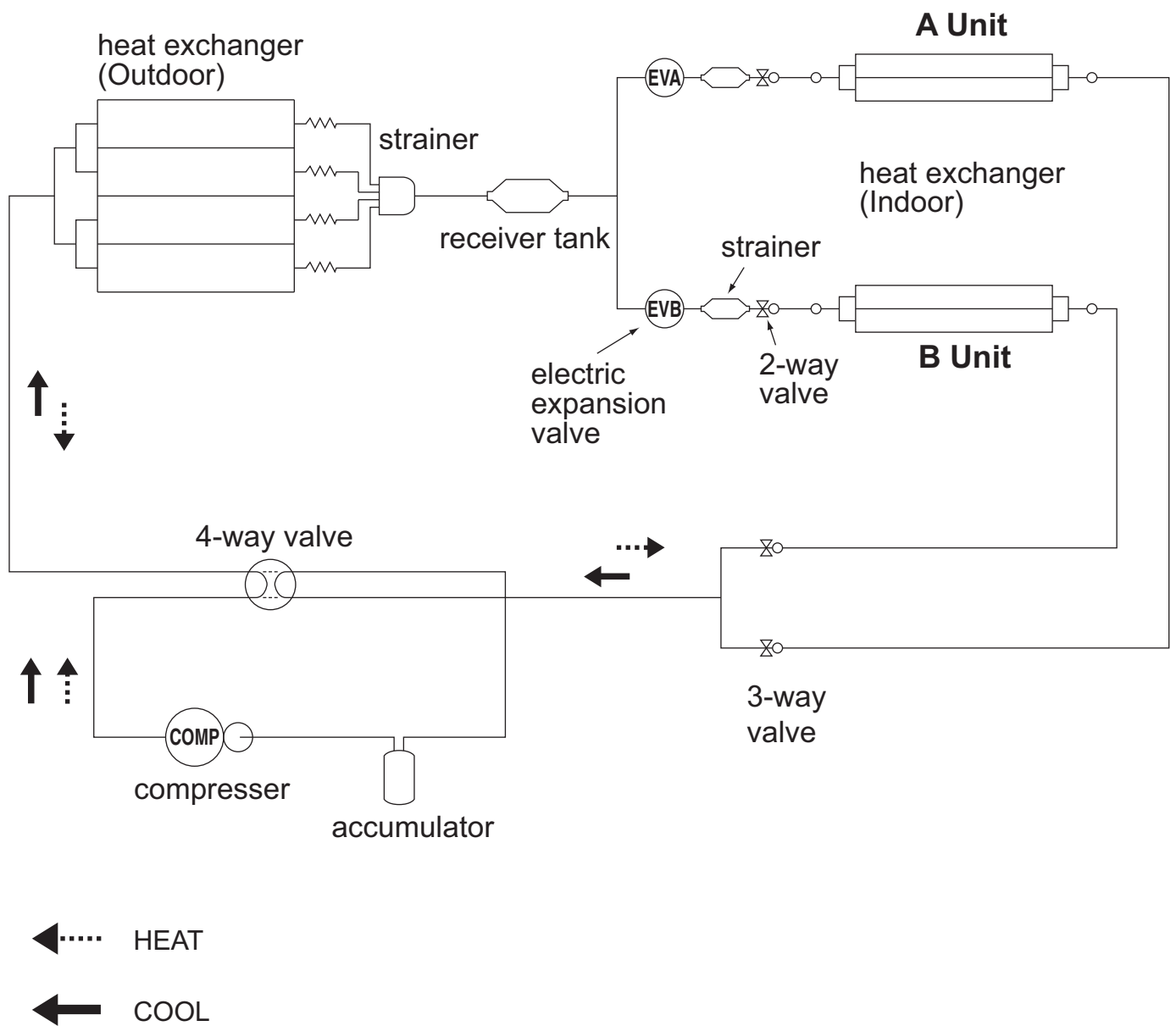


OUTDOOR UNIT

Unit : mm



REFRIGERANT SYSTEM DIAGRAM

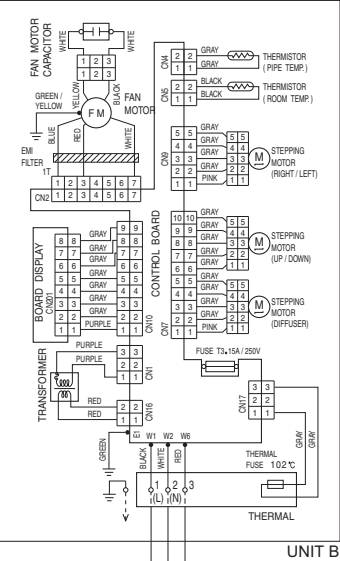


CIRCUIT DIAGRAM

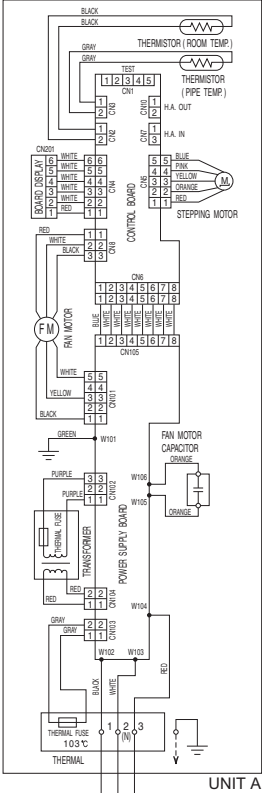
INDOOR UNIT

* ASY18LMA-W and ASY18LBAJ can't be connected to "UNIT A".

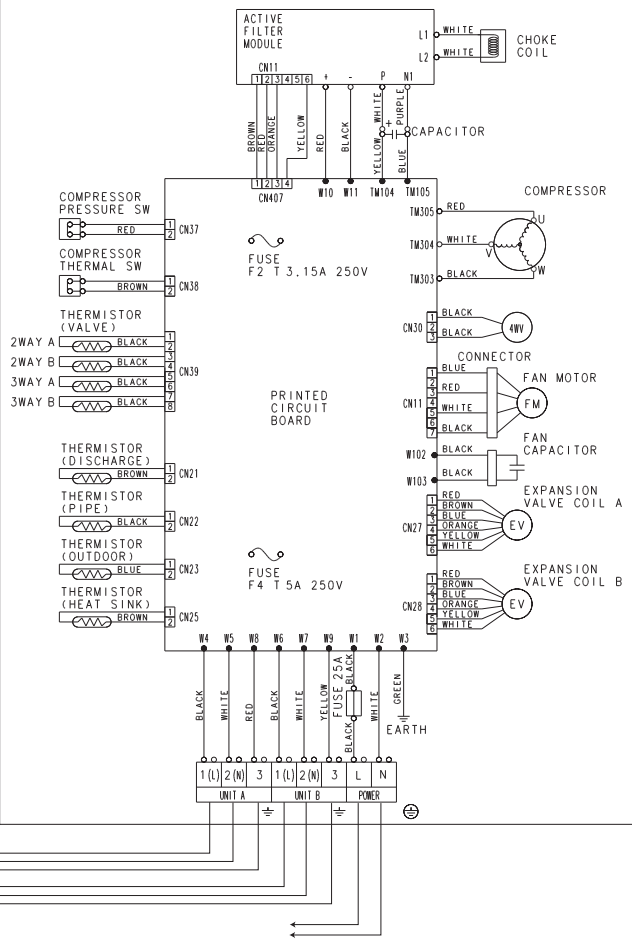
Model :
ASY18LMA-W
ASY18LBAJ



Models :
ASY7LMACW
ASY9LMACW
ASY12LMACW



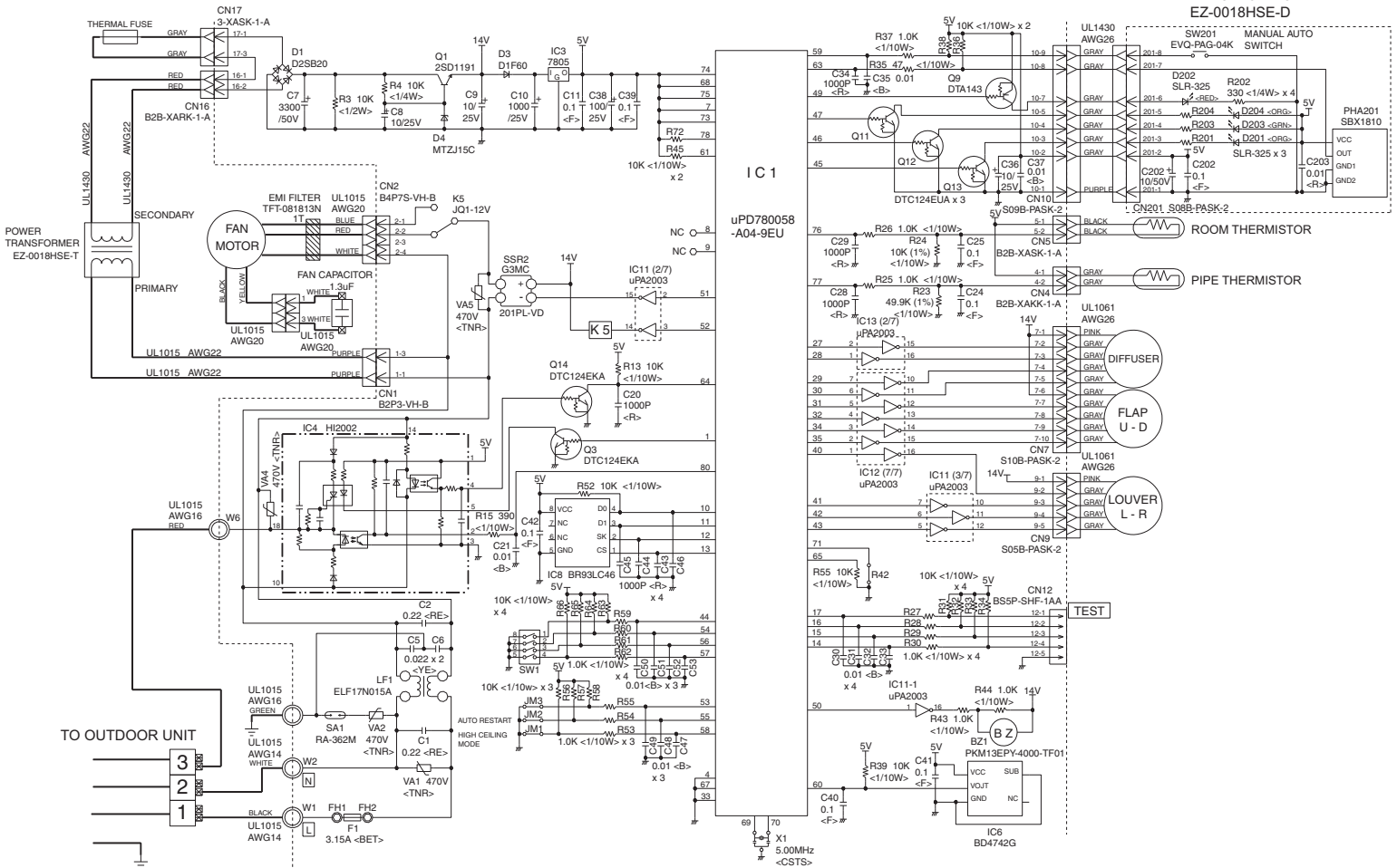
OUTDOOR UNIT



INDOOR PCB CIRCUIT DIAGRAM

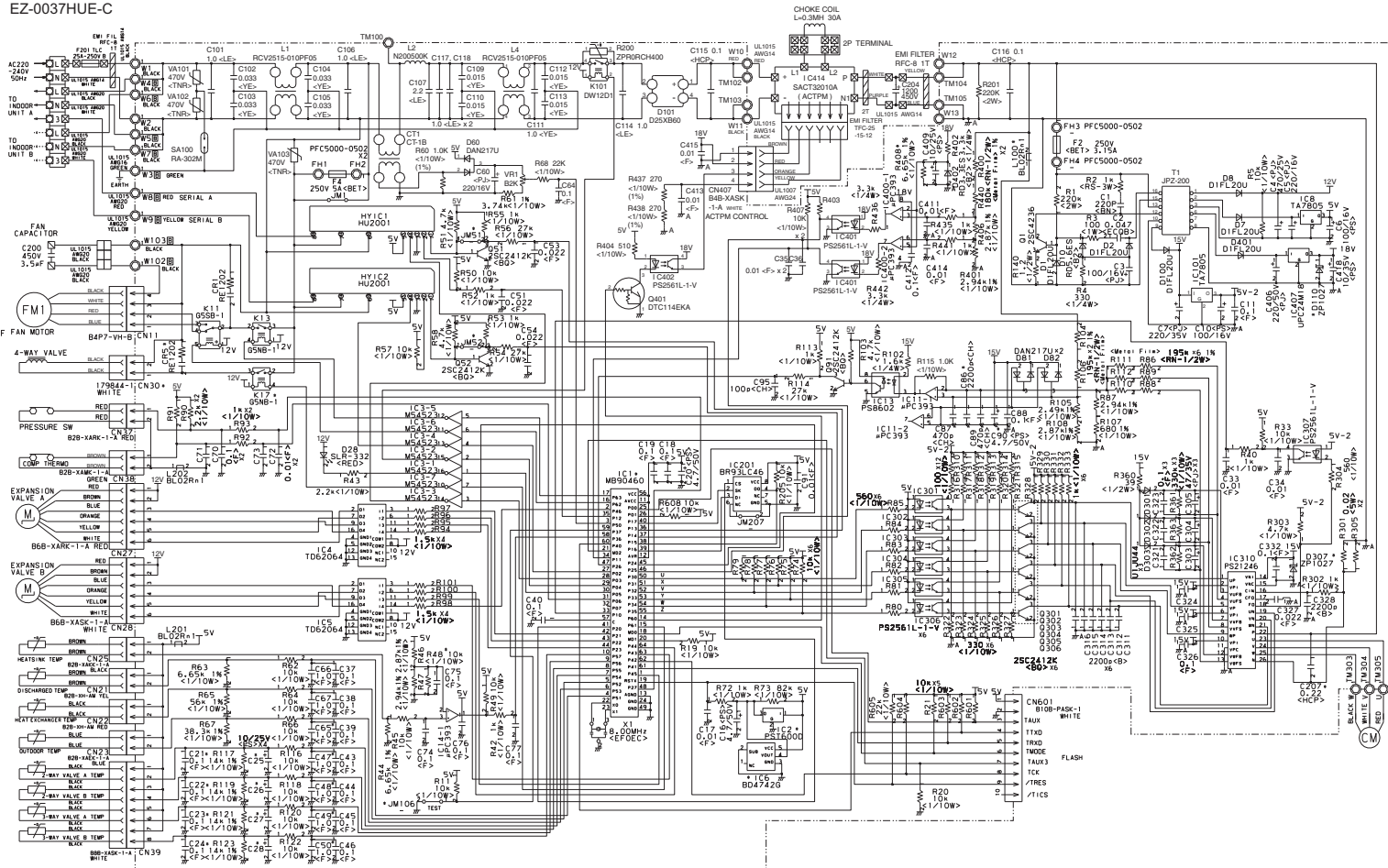
CONTROLLER PCB ASSEMBLY
EZ-00319HSE-C

INDICATOR PCB
EZ-0018HSE-D



OUTDOOR PCB CIRCUIT DIAGRAM

CONTROLLER PCB ASSEMBLY
EZ-0037HUE-C



ERROR DETECTION

○ : Fast flashing

● : Slow flashing

INDOOR UNIT

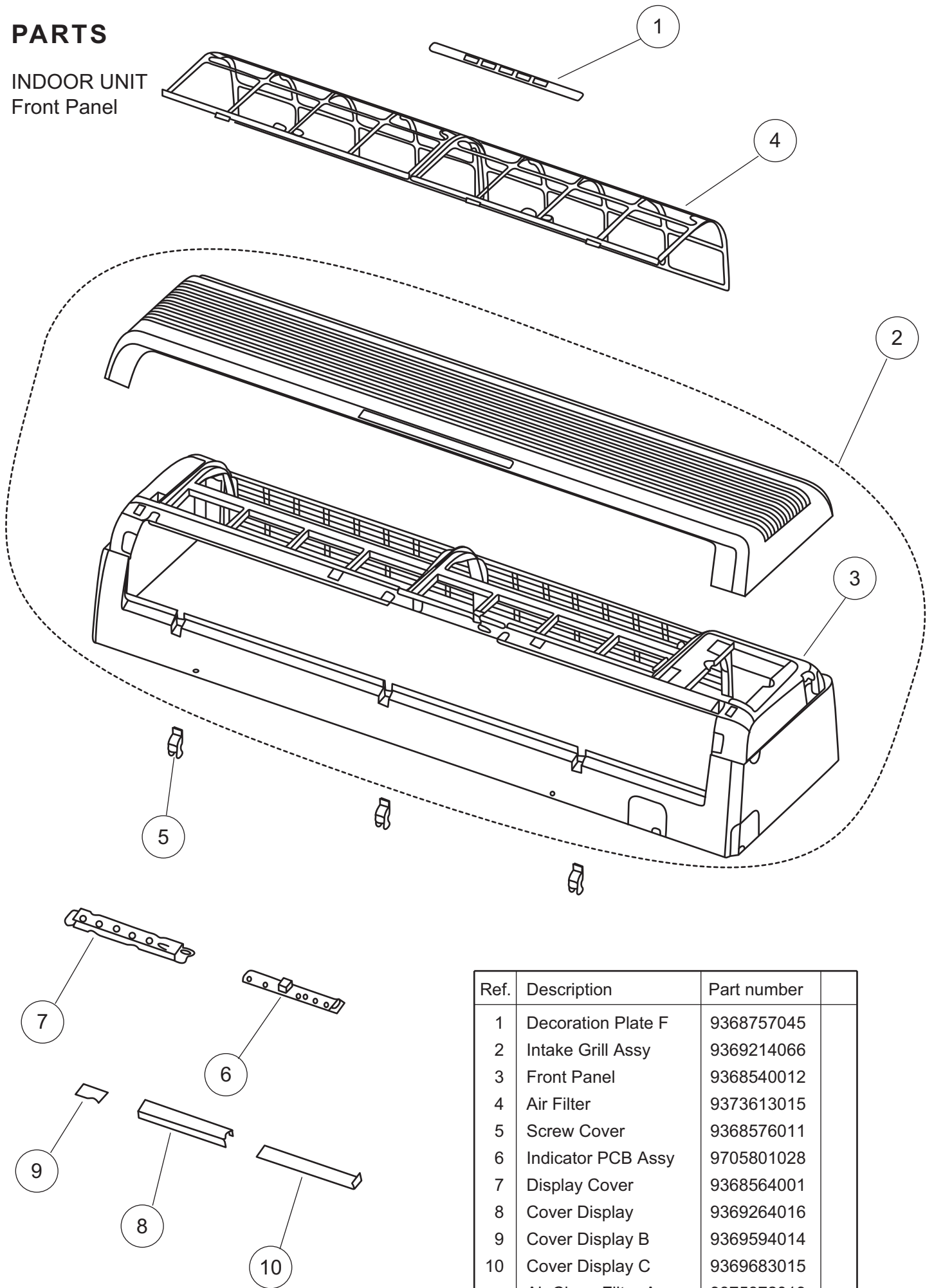
Error contents	Operation Red lamp	Timer Green lamp	Orange lamp
Heat exchanger thermistor error (outdoor unit)	○	● (3 times)	---
Outdoor temperature thermistor error (outdoor unit)	○	● (4 times)	---
Discharge thermistor error (outdoor unit)	○	● (5 times)	---
Compressor thermistor error (outdoor unit)	○	● (8 times)	---
Pressure switch error (outdoor unit)	○	● (9 times)	---
IPM error (inverter unit)	○	● (10 times)	---
Compressor loter location error (inverter unit)	○	● (13 times)	---
2 way valve thermistor error (outdoor unit)	○	○	● (2 times)
3 way valve thermistor error (outdoor unit)	○	○	● (3 times)
Capacity error of connecting indoor unit	○	---	● (4 times)
Serial reverse transmission error	○	---	● (5 times)
Thermistor error (room temp.) (indoor unit)	● (2 times)	○	(○)
Thermistor error (heat exchanger) (indoor unit)	● (3 times)	○	(○)
Serial order transmission error	● (5 times)	○	○
Fan motor error (indoor unit)	● (6 times)	○	---

OUTDOOR UNIT

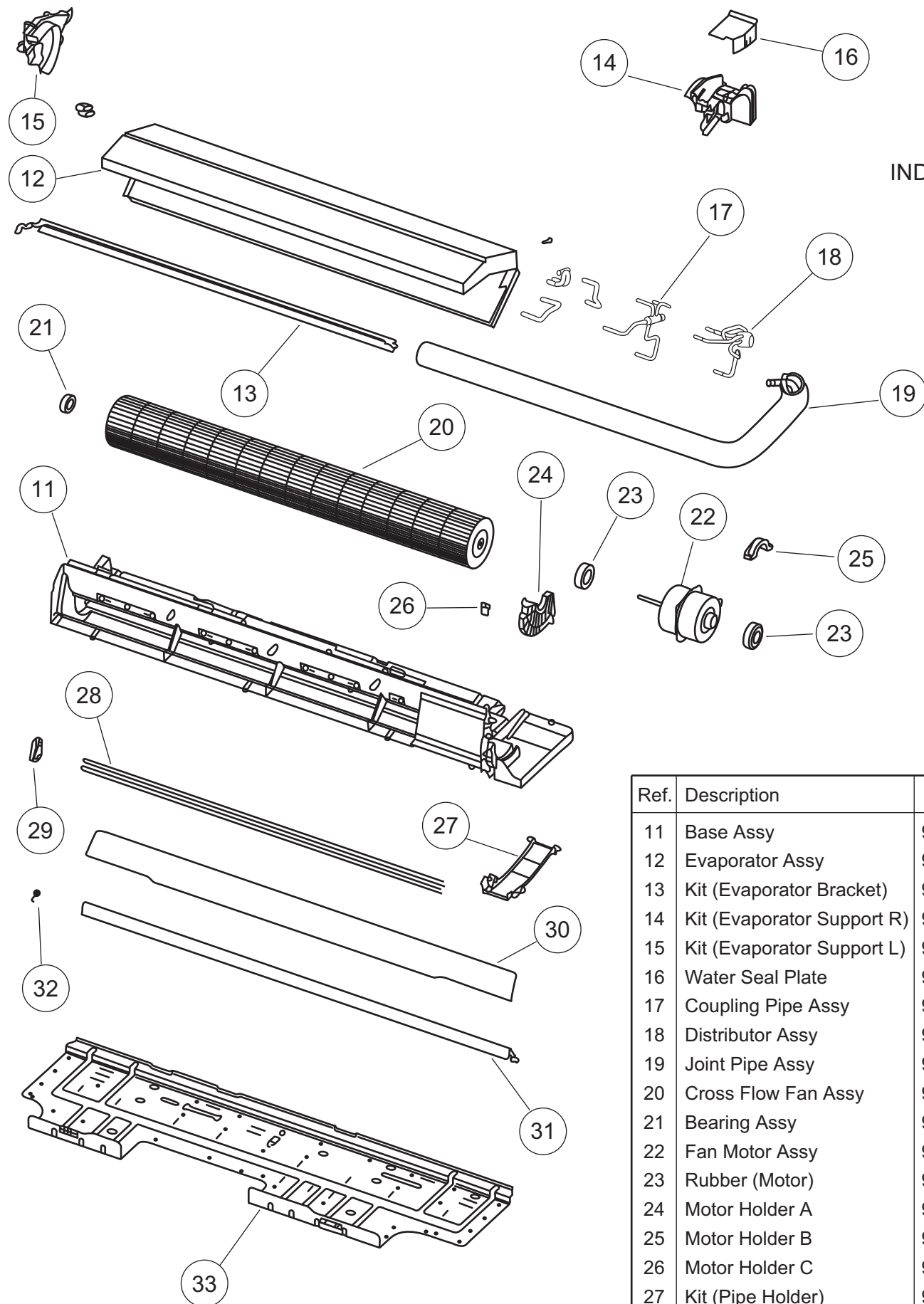
LED	Condition
1 flash	Communication abnormal
2 flashes	Discharge pipe thermistor abnormal
3 flashes	Heat exchanger thermistor abnormal
4 flashes	Outdoor air thermistor abnormal
5 flashes	2-way valve (A, B) thermistor abnormal
6 flashes	3-way valve (A, B) thermistor abnormal
7 flashes	Compressor thermistor abnormal
8 flashes	Pressure switch abnormal
9 flashes	Indoor units connection abnormal
10 flashes	Current trip (permanent stop)
11 flashes	CT abnormal (permanent stop)
12 flashes	Compressor location detection abnormal (permanent stop)
13 flashes	Compressor does not start (permanent stop)
14 flashes	Timer reduction

PARTS

INDOOR UNIT
Front Panel



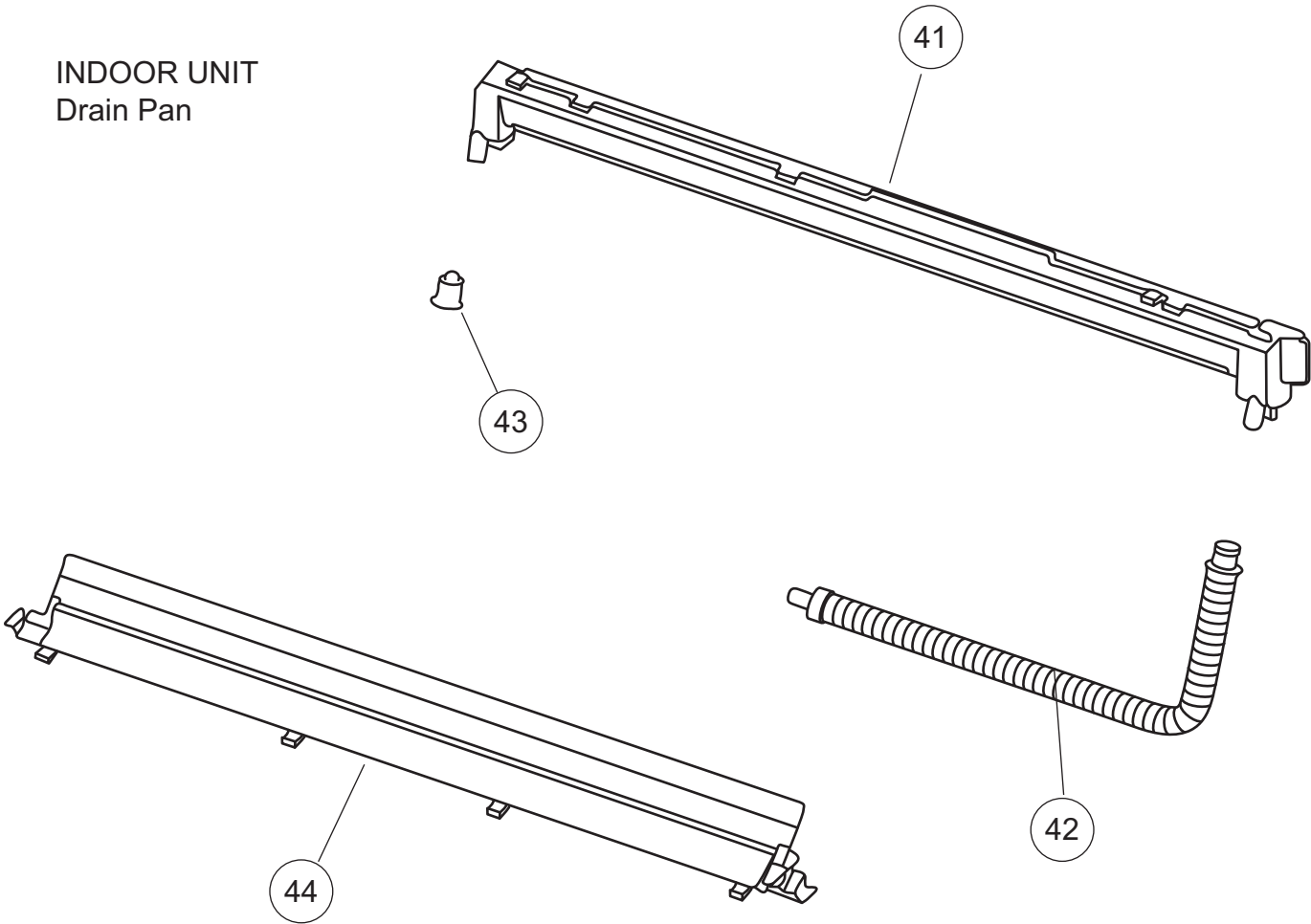
Ref.	Description	Part number	
1	Decoration Plate F	9368757045	
2	Intake Grill Assy	9369214066	
3	Front Panel	9368540012	
4	Air Filter	9373613015	
5	Screw Cover	9368576011	
6	Indicator PCB Assy	9705801028	
7	Display Cover	9368564001	
8	Cover Display	9369264016	
9	Cover Display B	9369594014	
10	Cover Display C	9369683015	
--	Air Clean Filter Assy	9375372019	



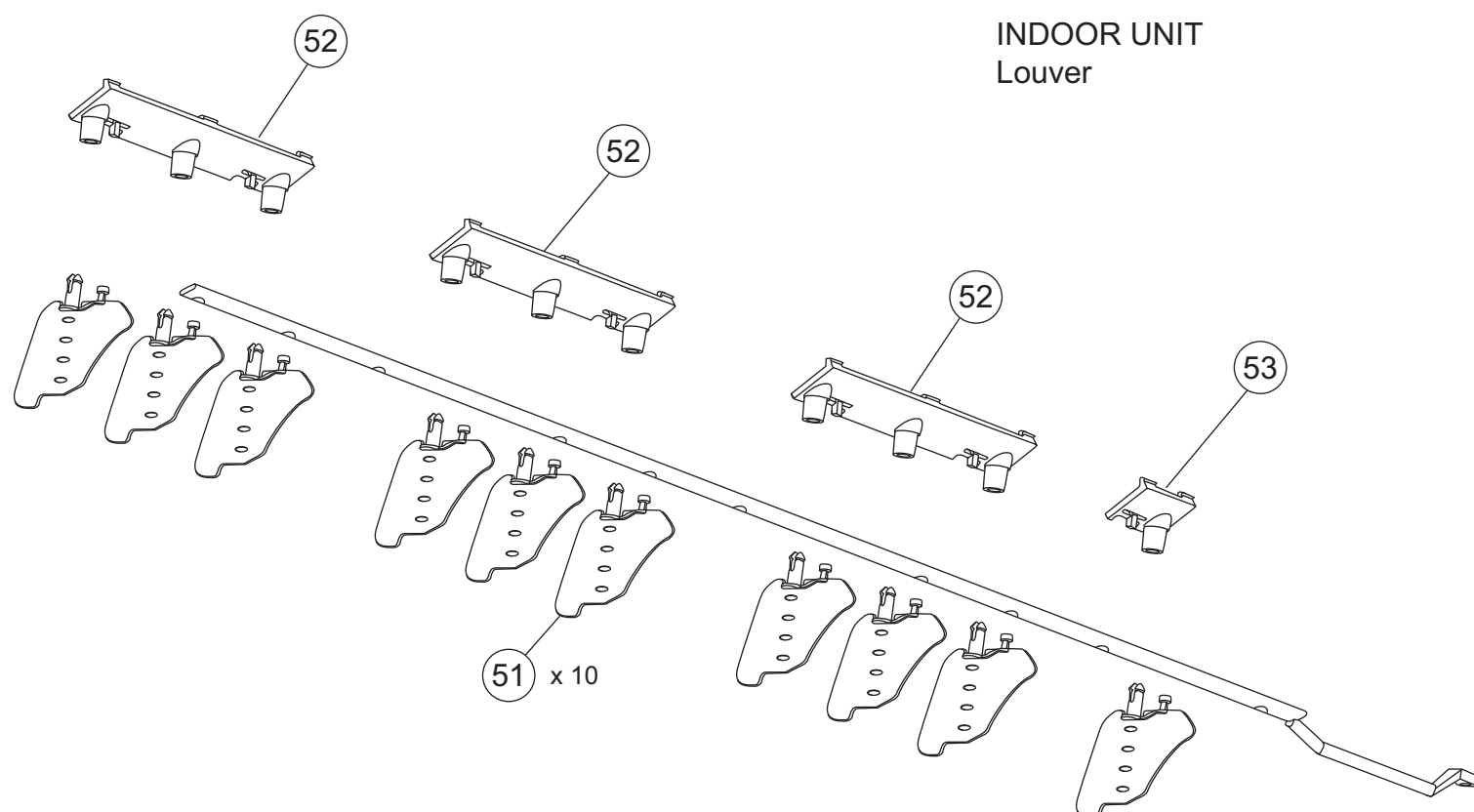
INDOOR UNIT

Ref.	Description	Part number
11	Base Assy	9369209017
12	Evaporator Assy	9372102015
13	Kit (Evaporator Bracket)	9371166018
14	Kit (Evaporator Support R)	9371167015
15	Kit (Evaporator Support L)	9371165011
16	Water Seal Plate	9369684005
17	Coupling Pipe Assy	9369241000
18	Distributor Assy	9371178004
19	Joint Pipe Assy	9372461013
20	Cross Flow Fan Assy	9368586003
21	Bearing Assy	9368574000
22	Fan Motor Assy	9601388012
23	Rubber (Motor)	9368575007
24	Motor Holder A	9368550004
25	Motor Holder B	9368551001
26	Motor Holder C	9368769000
27	Kit (Pipe Holder)	9371168012
28	Fan Guard	9368588007
29	Kit (Fan Guard Holder)	9371164014
30	Kit (Flap)	9371169019
31	Diffuser Assy	9369346019
32	Diffuser Spring	9368587000
33	Wall Hook Bracket	9368579005

INDOOR UNIT
Drain Pan

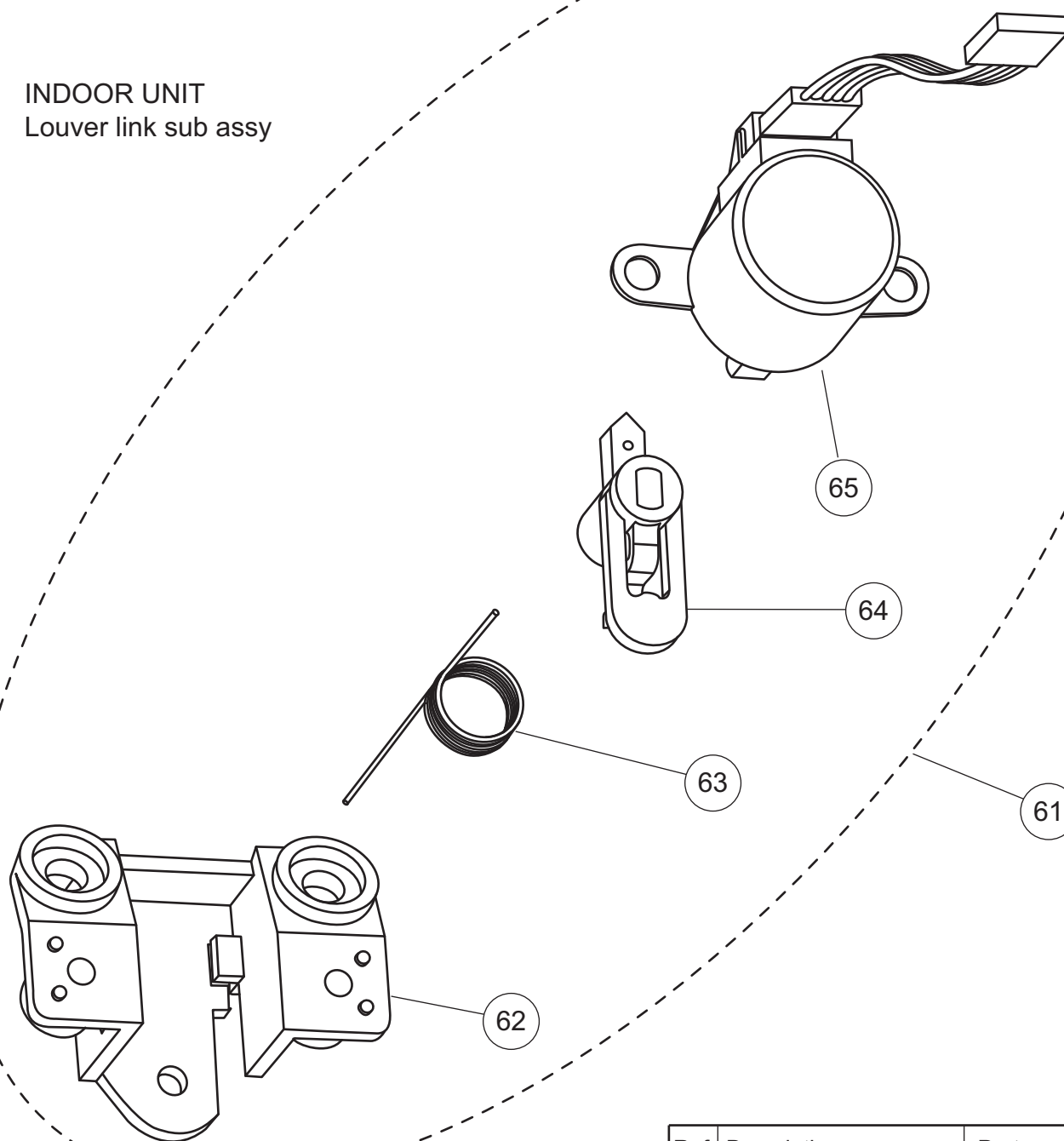


Ref.	Description	Part number	
41	Kit (Front Drain Pan) with Cap	9370932010	
42	Drain Hose	9367695003	
43	Drain Cap	9367677009	
44	Rear Drain Pan Sub Assy	9369201028	

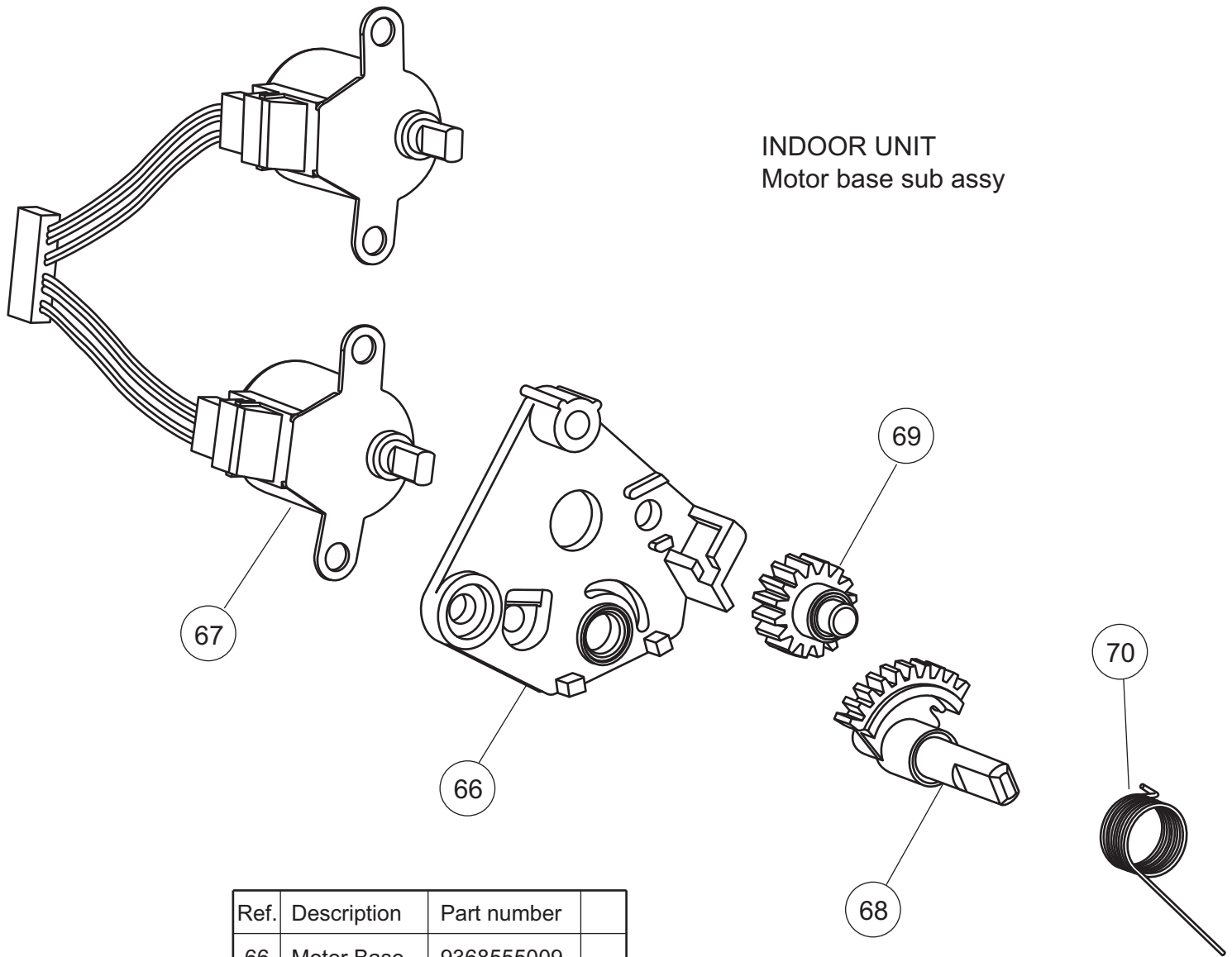


Ref.	Description	Part number	
51	Louver	9368560010	
52	Louver Base A	9368558017	
53	Louver Base B	9368559014	

INDOOR UNIT
Louver link sub assy



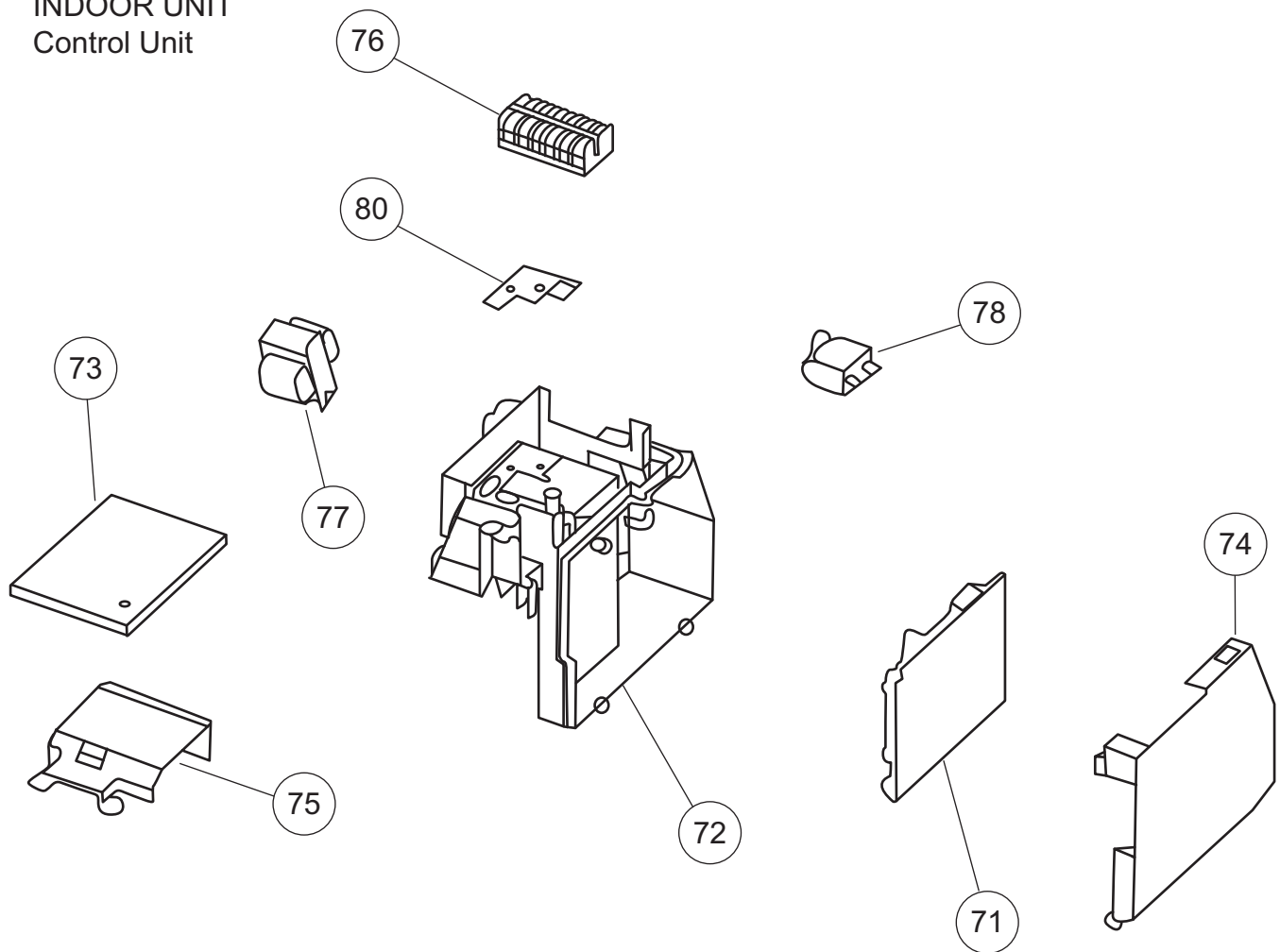
Ref.	Description	Part number	
61	Louver Link Sub Assy	9369347023	
62	Link Holder	9368563004	
63	Louver Spring	9368613006	
64	Louver Link	9368562007	
65	Step Motor	9900139032	



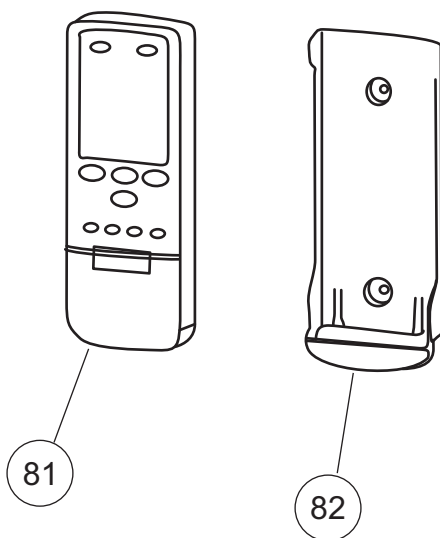
INDOOR UNIT
Motor base sub assy

Ref.	Description	Part number	
66	Motor Base	9368555009	
67	Step Motor	9900139049	
68	Sector Gear	9368556006	
69	Pinion Gear	9368557003	
70	Flap Spring	9368612009	

INDOOR UNIT Control Unit



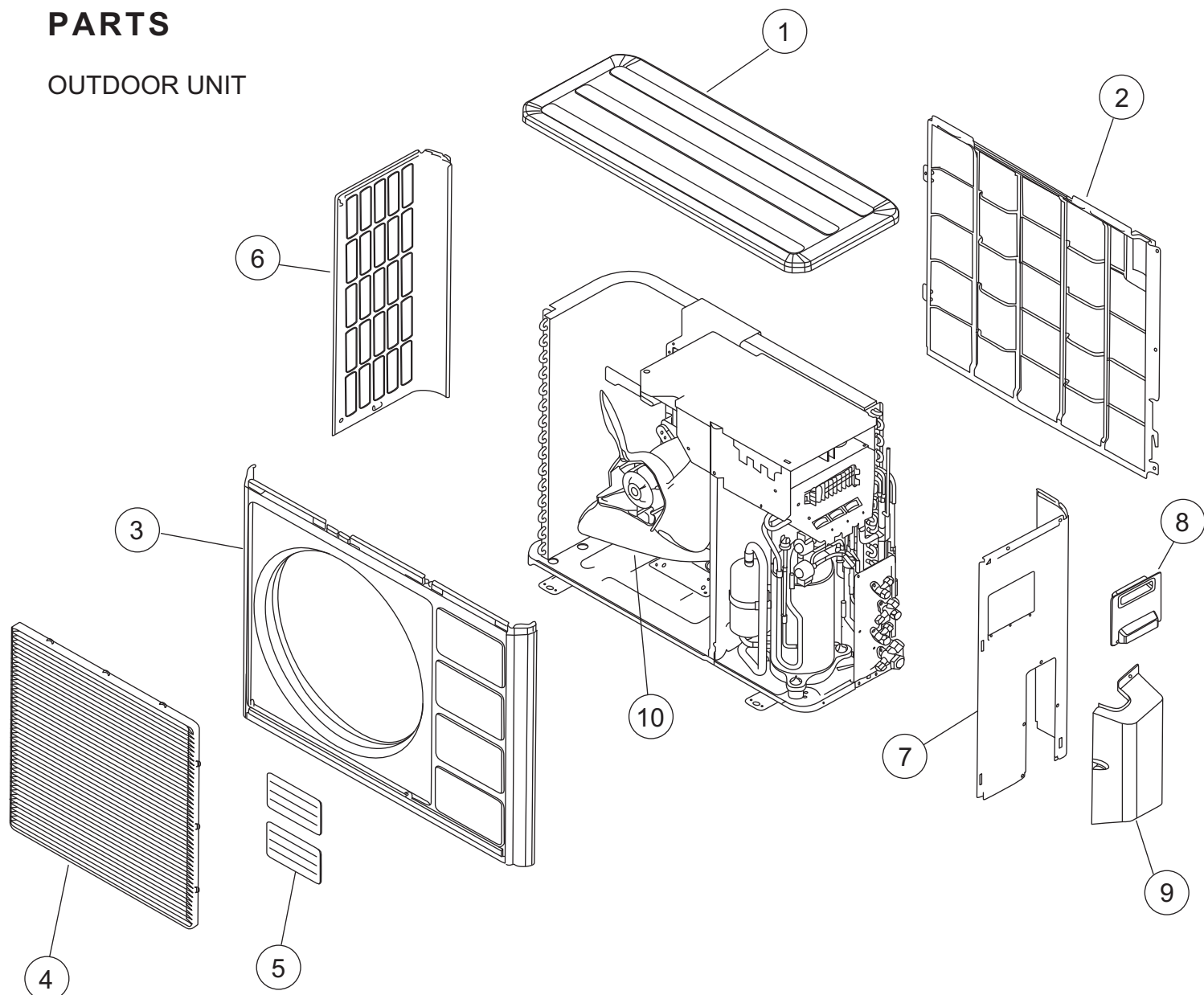
Remote Control



Ref.	Description	Part number
71	Controller PCB Assy	9704714091
72	Control Box	9368543006
73	Control Box Cover	9368611002
74	Control Box Cover R	9369631009
75	Cord Holder	9368566005
76	Terminal	9306489106
77	Power Transformer	9900069018
78	Capacitor (Fan Motor)	9704305060
80	Earth Plate	9368580001
81	Remote Control	9371190112
82	Remote Control Holder	9305642014
--	Room Thermistor	9900368012
--	Pipe Thermistor	9900367015

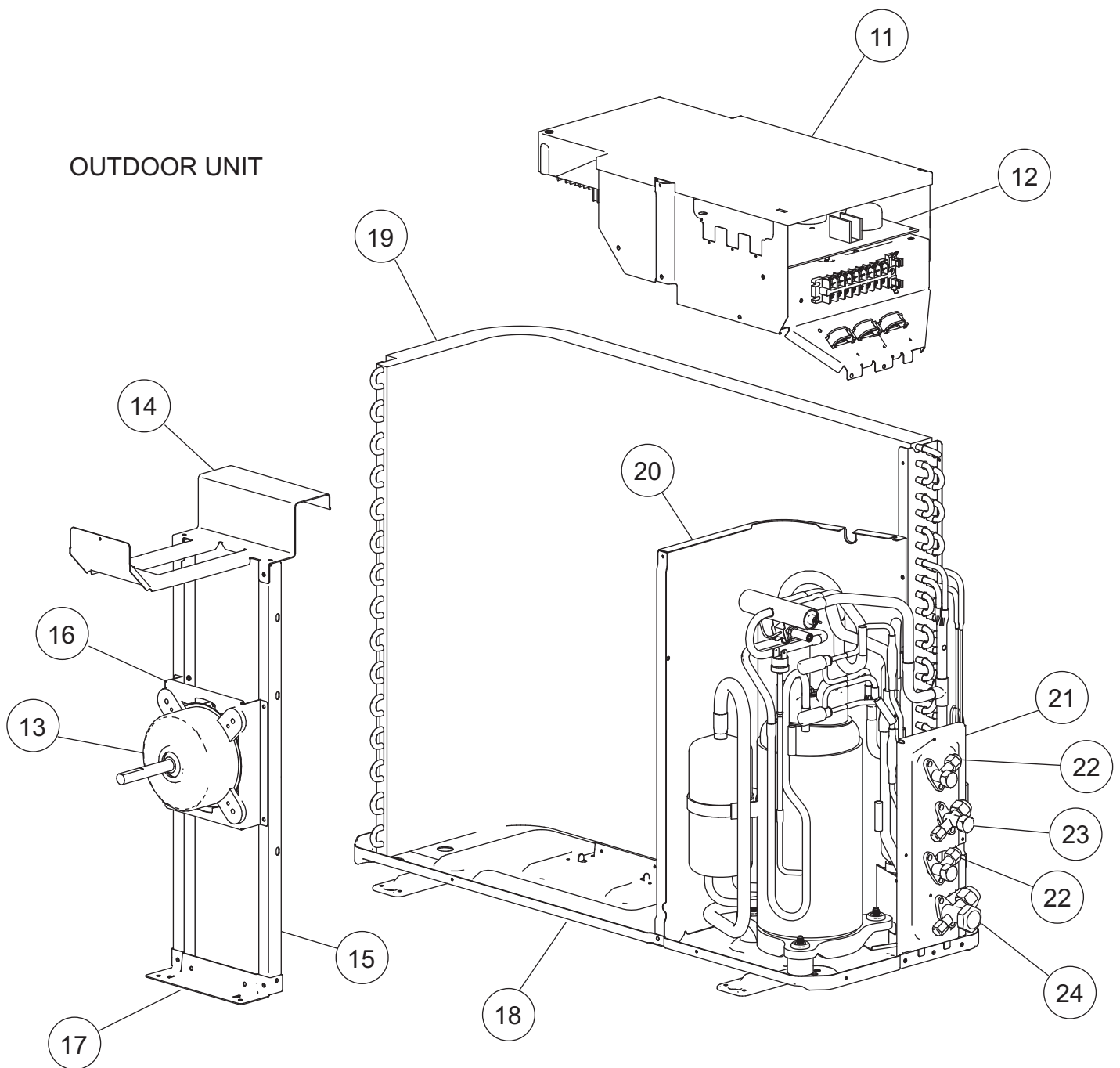
PARTS

OUTDOOR UNIT



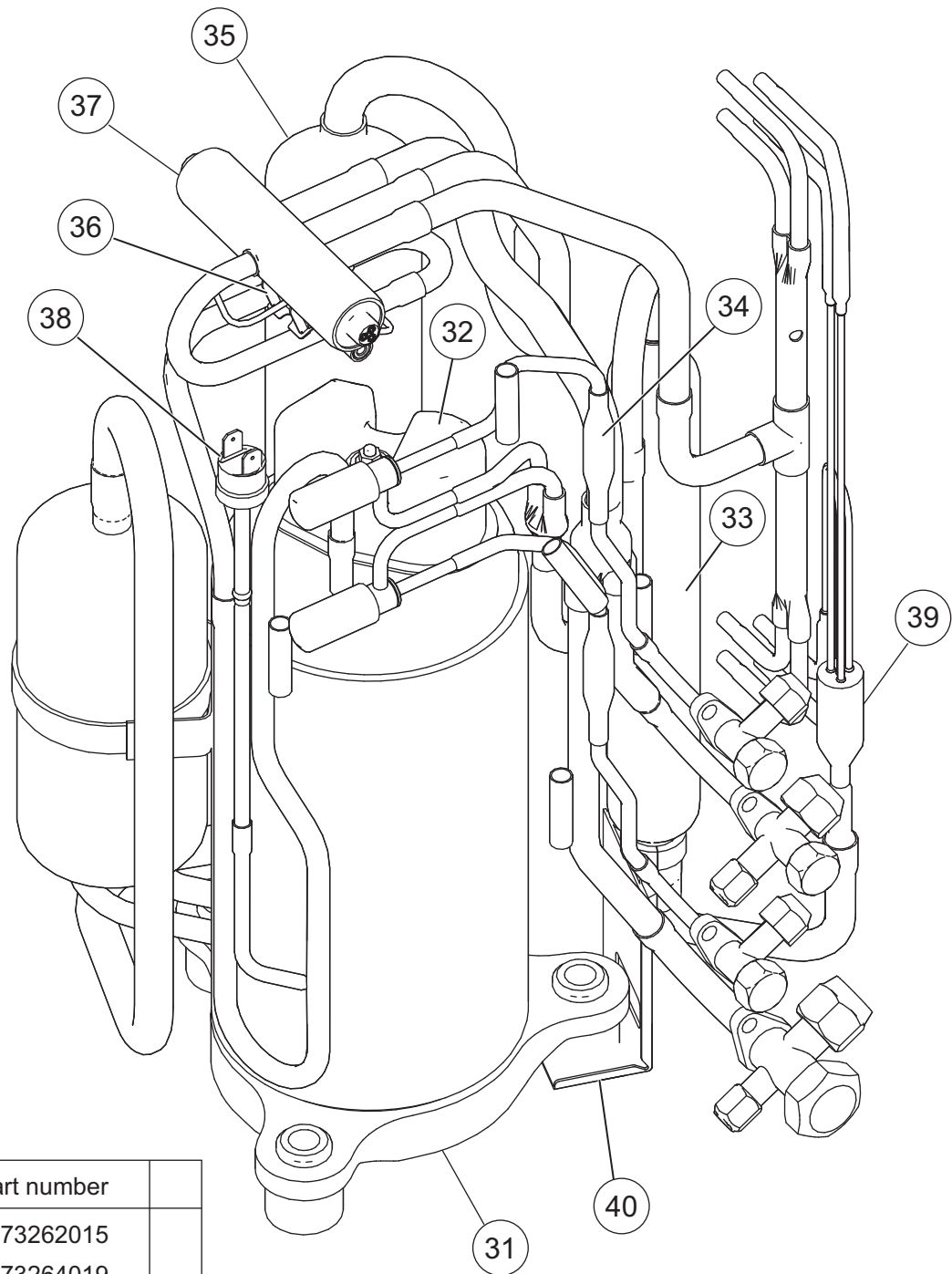
Ref.	Description	Part number	
1	Top Panel	9371925011	
2	Protective Net	9371934013	
3	Front Panel	9371924014	
4	Fan Guard	9371187013	
5	Emblem	9351355005	
6	Side Panel L	9371926018	
7	Side Panel R Sub Assy	9372306048	
8	Connecteur Cover	9366398004	
9	Valve Cover	9372796016	
10	Propeller Fan Assy	9366378013	

OUTDOOR UNIT

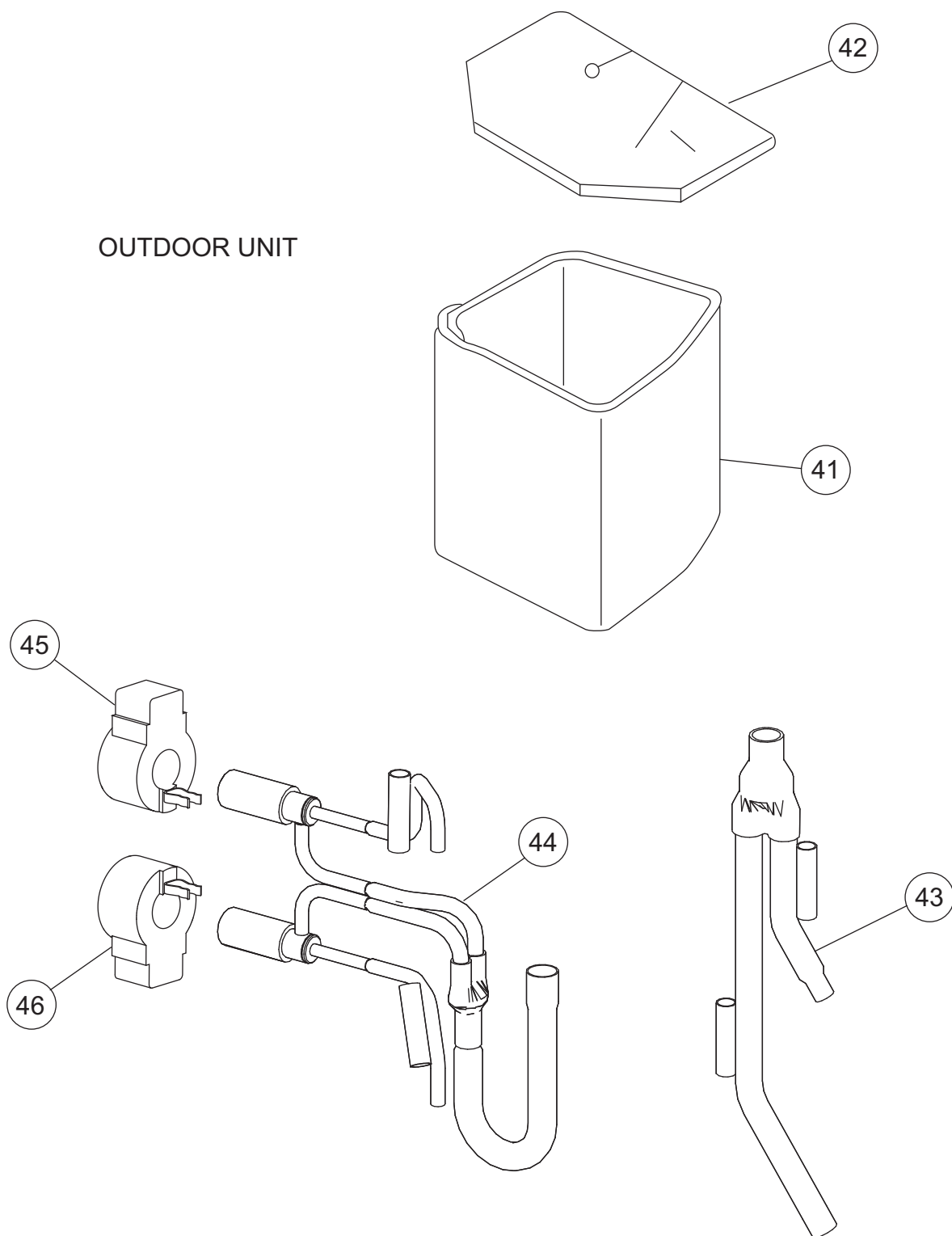


Ref.	Description	Part number		Ref.	Description	Part number	
11	Control Cover	9372792018		--	Heat Exchanger Thermistor	9704220059	
12	Controller PCB Assy	9707560015		--	Thermistor Outdoor	9703516047	
13	Motor Induct	9601671046		--	Thermistor Heat Sink	9900195014	
14	Motor Bracket Top	9371931012		--	Relay	9900117016	
15	Motor Bracket	9371929019		--	ACTPM	9703457012	
16	Motor Bracket Center	9371930015		--	Capacitor for PCB	9705387010	
17	Motor Bracket Bottom	9371932019		--	Fan Capacitor	9900270049	
18	Base Assy	9371920078		--	Fuse	0600086039	
19	Condenser Assy	9372181096		--	Terminal 8P	9900203047	
20	Separate Wall	9372795019		--	Fuse Holder	0501454012	
21	Valve Plate	9371928036		--	Terminal 2P	9701971015	
22	2-Way Valve	9372204054					
23	3-Way Valve	9372205044					
24	3-Way Valve	9372205051					

OUTDOOR UNIT



Ref.	Description	Part number	
31	Compressor Assy	9373262015	
32	Terminal Cover (Comp)	9373264019	
33	Receiver Tank Assy	9373426011	
34	Strainer Assy	9366602019	
35	Accumulator	9368391003	
36	Solenoid	9900165079	
37	4-Way Valve	9900163013	
38	Pressure Switch Assy	9373729044	
39	Capillary Assy	9373729211	
40	Accum Support Assy	9372252017	
--	Thermal Switch	9377956019	
--	Gasket (Comp)	9373266013	
--	Compressor Pressure Switch	9900186012	
--	Compressor Thermal Switch	9373263012	
--	Thermistor Valve	9900194017	
--	Thermistor Discharge	9704219039	
--	Special Nut M8 (Comp)	9355091008	
--	Thermister Holder Pipe	313714262805	

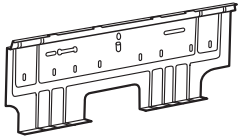
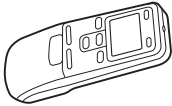
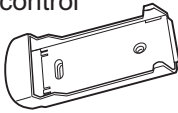
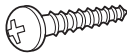
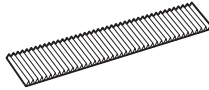
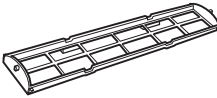


OUTDOOR UNIT

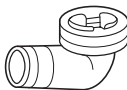
Ref.	Description	Part number	
41	Compressor Cover A	9373730019	
42	Compressor Cover B	9373730026	
43	Joint Pipe (3Way) Assy	9373729129	
44	Expansion Valve Assy	9373729068	
45	Expansion Valve Coil (White connector)	9900197018	
46	Expansion Valve Coil (Red connector)	9900057022	

ACCESSORIES

INDOOR UNIT

Name and Shape	Part number
Wall hook bracket 	9368579005
Remote control 	9371190112 (AR-JW11)
Battery (penlight) 	0600185534
Remote control holder 	9368847012
Tapping screw (big) (ϕ 4 x 20) 	301141164200
Tapping screw (big) (ϕ 4 x 12) 	301171164129
Tapping screw (small) (ϕ 3 x 12) 	301141533125
Air cleaning filter 	DEODORANT FILTER 9370527018 ELECTRIC FILTER 9370528015
Air cleaning filter frame 	9368568009

OUTDOOR UNIT

Name and Shape	Part No.
Drain pipe 	9303029015
Drain cap 	313166024302
Adapter D (1/2" → 3/8") 12.7mm → 9.52mm 	9370244007

0506G2871