

SPLIT TYPE ROOM AIR
CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL



Indoor unit	Outdoor unit
ASY14FSBCW	AOY14FSBC
ASY14USBCW	AOY14USBC

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SPECIFICATIONS

ELECTRICAL DATA

TYPE		Cooling	Cooling & Heating
INDOOR UNIT		ASY14FSBCW	ASY14USBCW
OUTDOOR UNIT		AOY14FSBC	AOY14USBC
COOLING CAPACITY		4.20 kW	4.25 kW
HEATING CAPACITY		-----	4.80 kW
POWER SOURCE		230V 50Hz	230V 50Hz
RUNNING CURRENT	Cooling	6.6 A	6.1 A
	Heating	-----	5.6 A
INPUT WATTS	Cooling	1.48 kW	1.38 kW
	Heating	-----	1.27 kW
E.E.R	Cooling	2.84 kW/kW	3.08 kW/kW
	Heating	-----	3.78 kW/kW
MOISTURE REMOVAL		2.0 L/hr	2.0 L/hr
AIR CIRCULATION HIGH		700 m3/hr	Cool 700 / Heat 675 m3/hr

COMPRESSOR

TYPE		Hermetic type, Permanent split condenser, 2 pole, Single phase, Induction motor	
DISCRIMINATION		802-360-45B	
POWER SOURCE		230V 50Hz	
REFRIGERANT	R410A	1,040 g	1,100 g

FAN MOTOR

POWER SUPPLY		230 V	230 V
INDOOR UNIT	High speed	1,450 r.p.m.	Cool 1,450 / Heat 1,400 r.p.m.
	Med speed	1,320 r.p.m.	Cool 1,320 / Heat 1,230 r.p.m.
	Low speed	1,190 r.p.m.	Cool 1,190 / Heat 1,060 r.p.m.
	Quiet	1,050 r.p.m.	Cool 1,050 / Heat 900 r.p.m.
OUTDOOR UNIT		800 r.p.m.	800 r.p.m.

DIMENSIONS

INDOOR UNIT	H x W x D	275 x 790 x 215 mm
OUTDOOR UNIT	H x W x D	535 x 780 x 250 mm

WEIGHT

INDOOR UNIT	Gross / Net	12 kg / 9 kg	12 kg / 9 kg
OUTDOOR UNIT	Gross / Net	37 kg / 35 kg	39 kg / 37 kg

NOISE LEVEL

INDOOR UNIT	High speed	43 dB	Cool 43 dB / Heat 41 dB
	Med speed	40 dB	Cool 40 dB / Heat 37 dB
	Low speed	37 dB	Cool 37 dB / Heat 32 dB
	Quiet	34 dB	Cool 33 dB / Heat 27 dB
OUTDOOR UNIT		47 dB	Cool 47 dB / Heat 48 dB

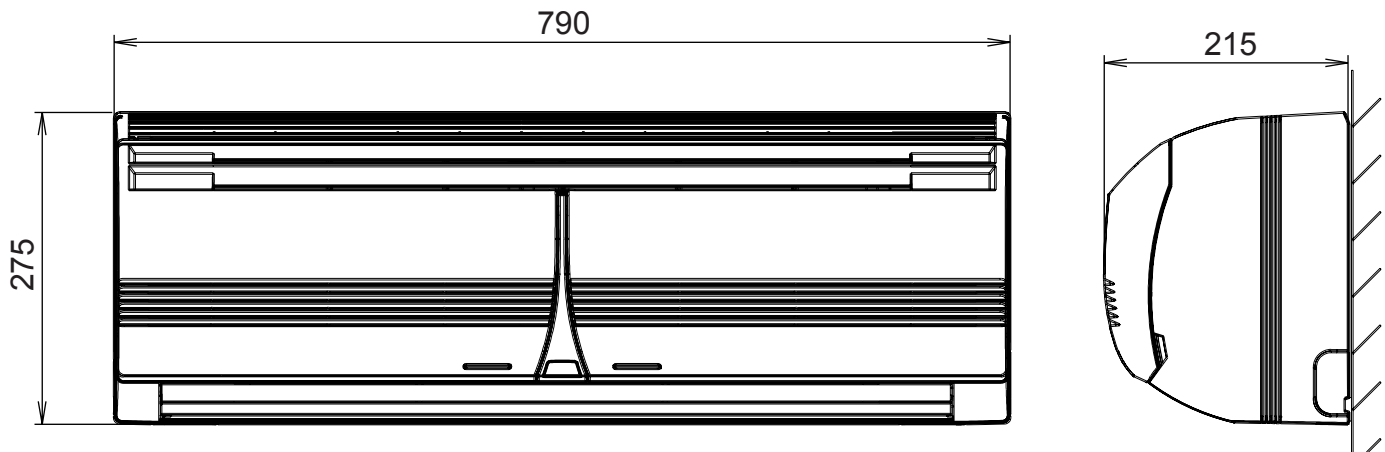
REFRIGERANT CHARGE (R410A)

FULL CHARGE	PIPE LENGTH	7.5 m	1,040 g	1,100 g
		10 m	1,090 g	1,150 g
		15 m	1,190 g	1,250 g
ADDITIONAL CHARGE		20 g / m		

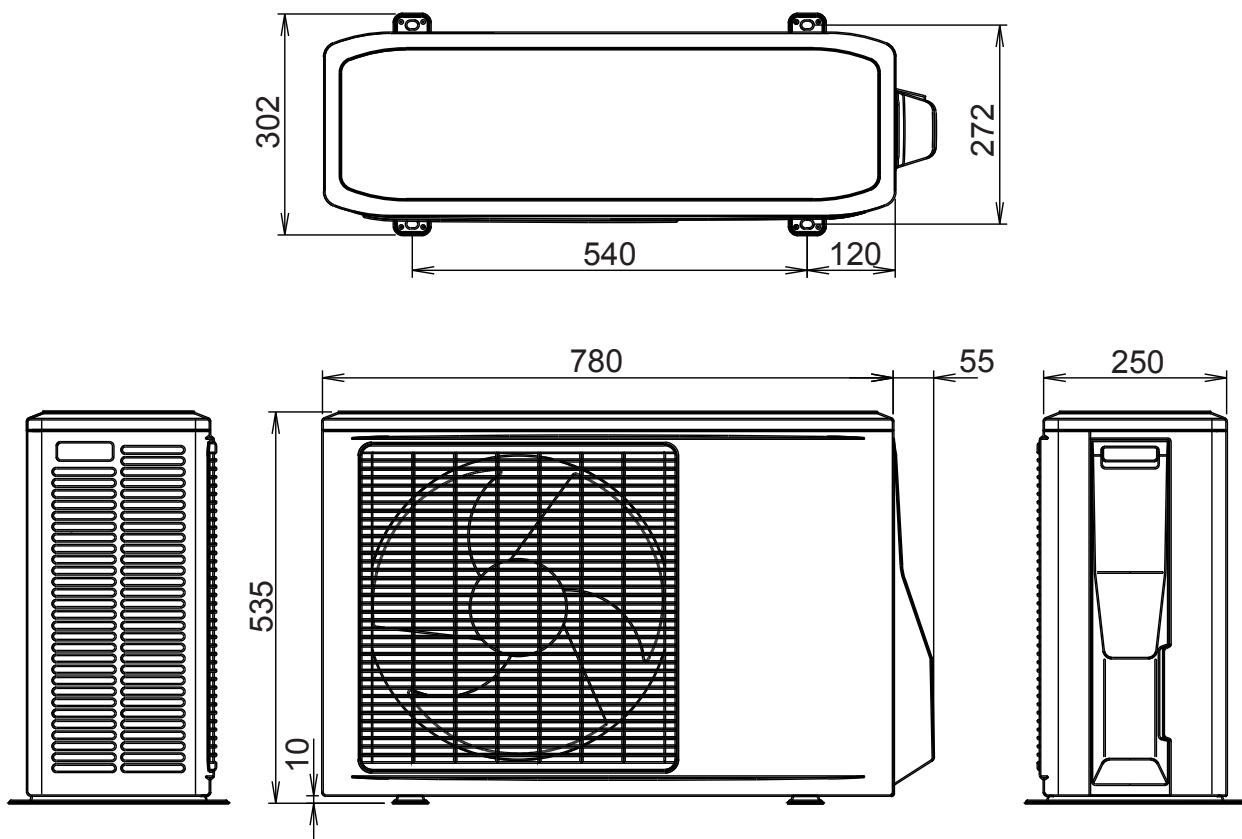
DIMENSIONS

Unit : mm

INDOOR UNIT

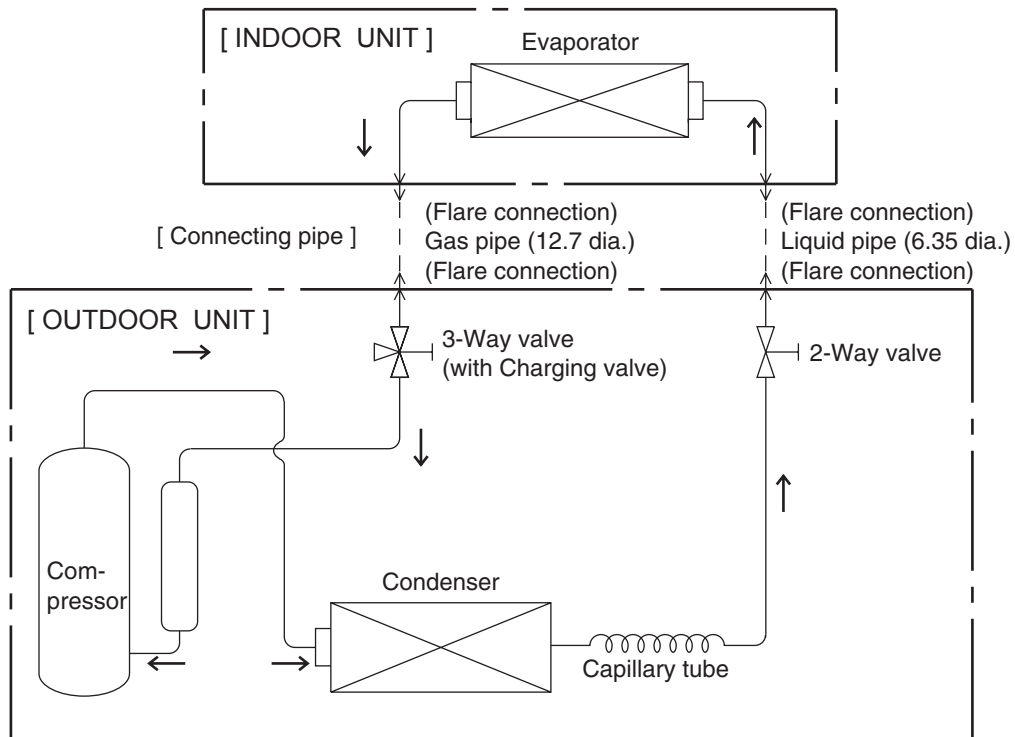


OUTDOOR UNIT

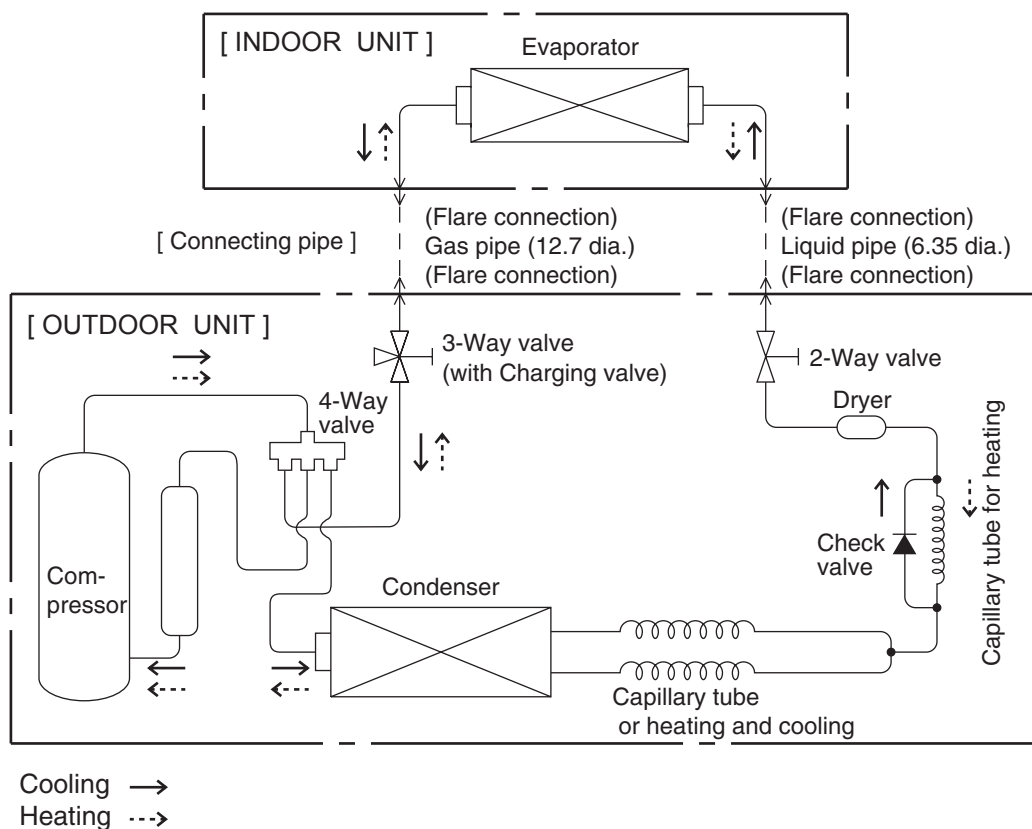


REFRIGERANT SYSTEM DIAGRAM

Models : ASY14FSBCW / AOY14FSBC

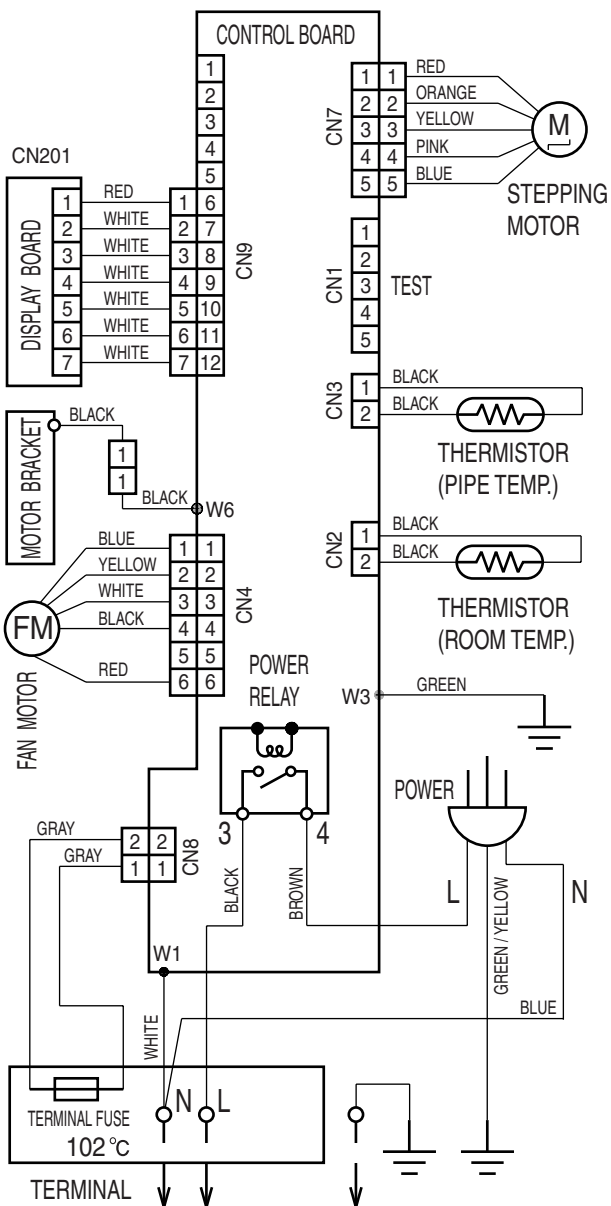


Models : ASY14USBCW / AOY14USBC

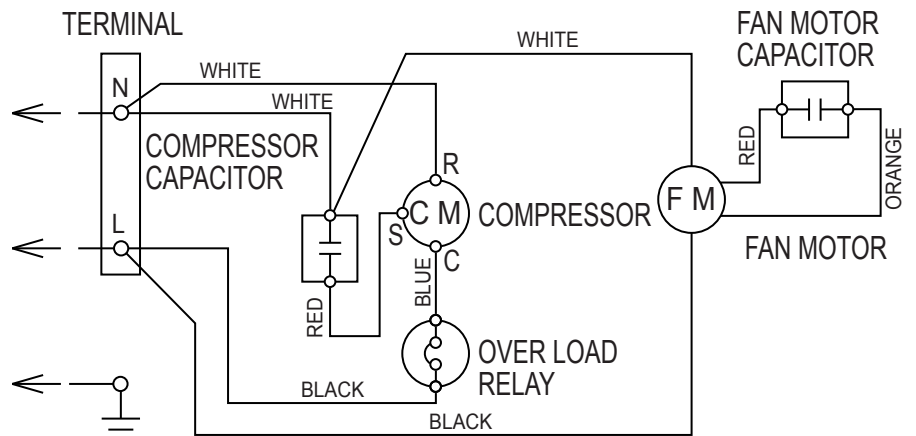


CIRCUIT DIAGRAM

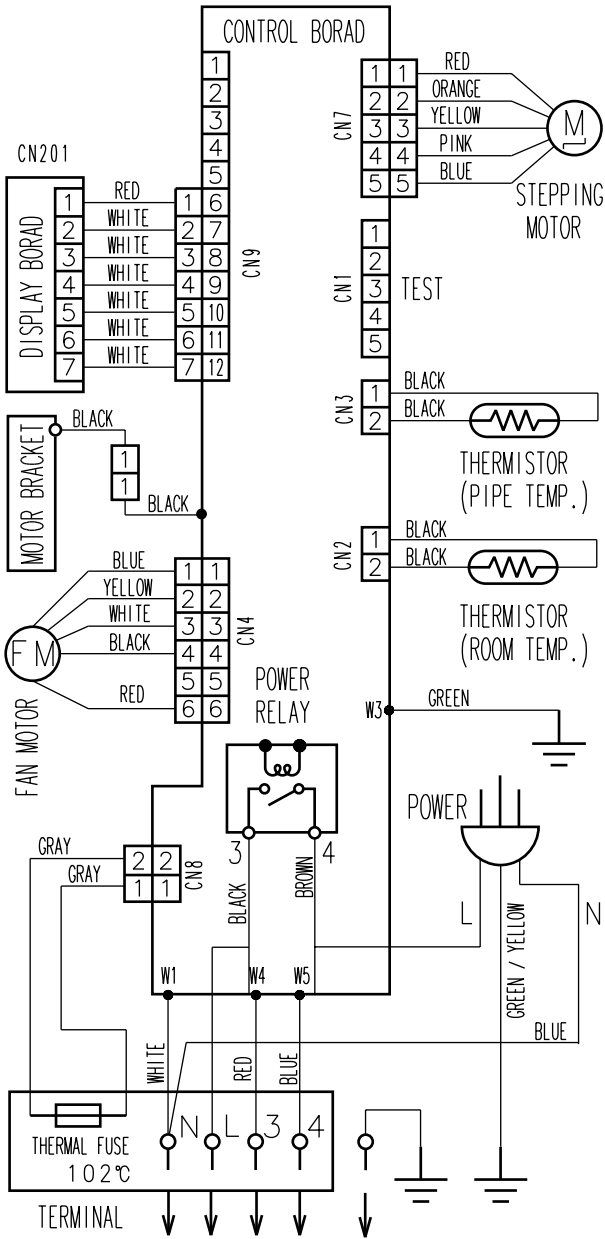
Model : ASY14FSBCW



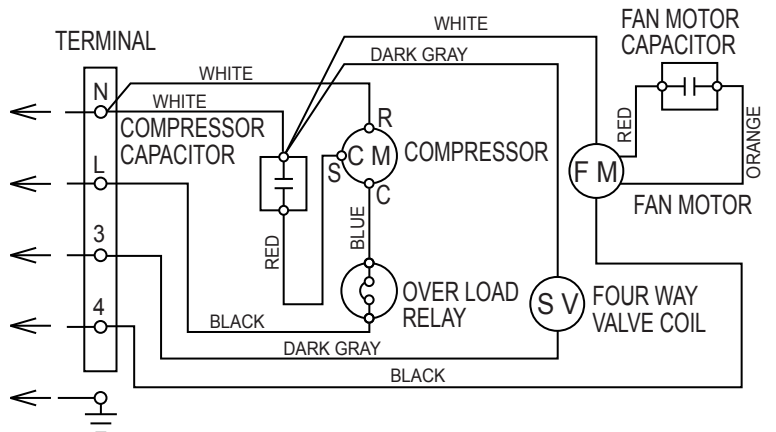
Model : AOY14FSBC



Model : ASY14USBCW

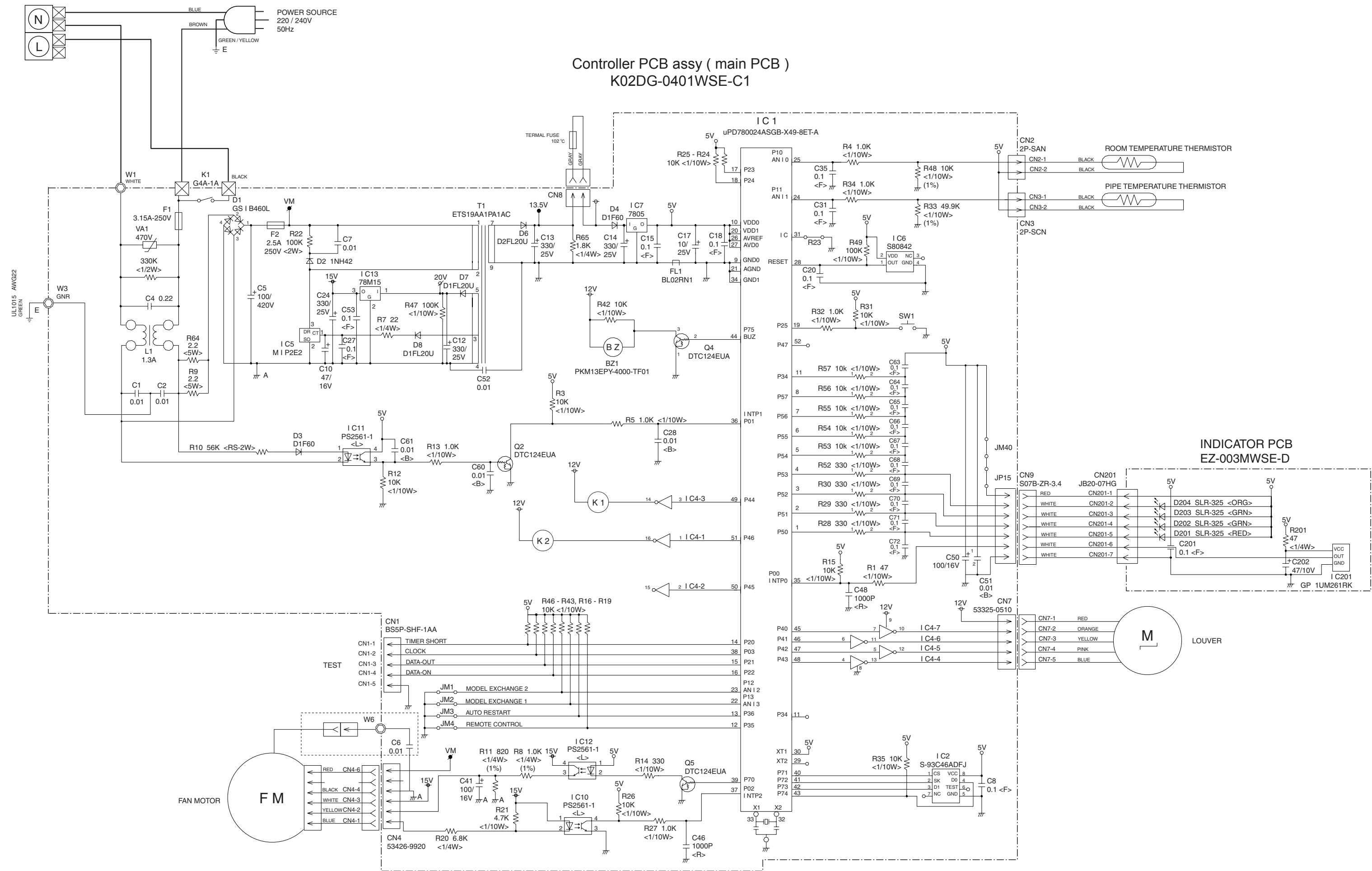


Model : AOY14USBC

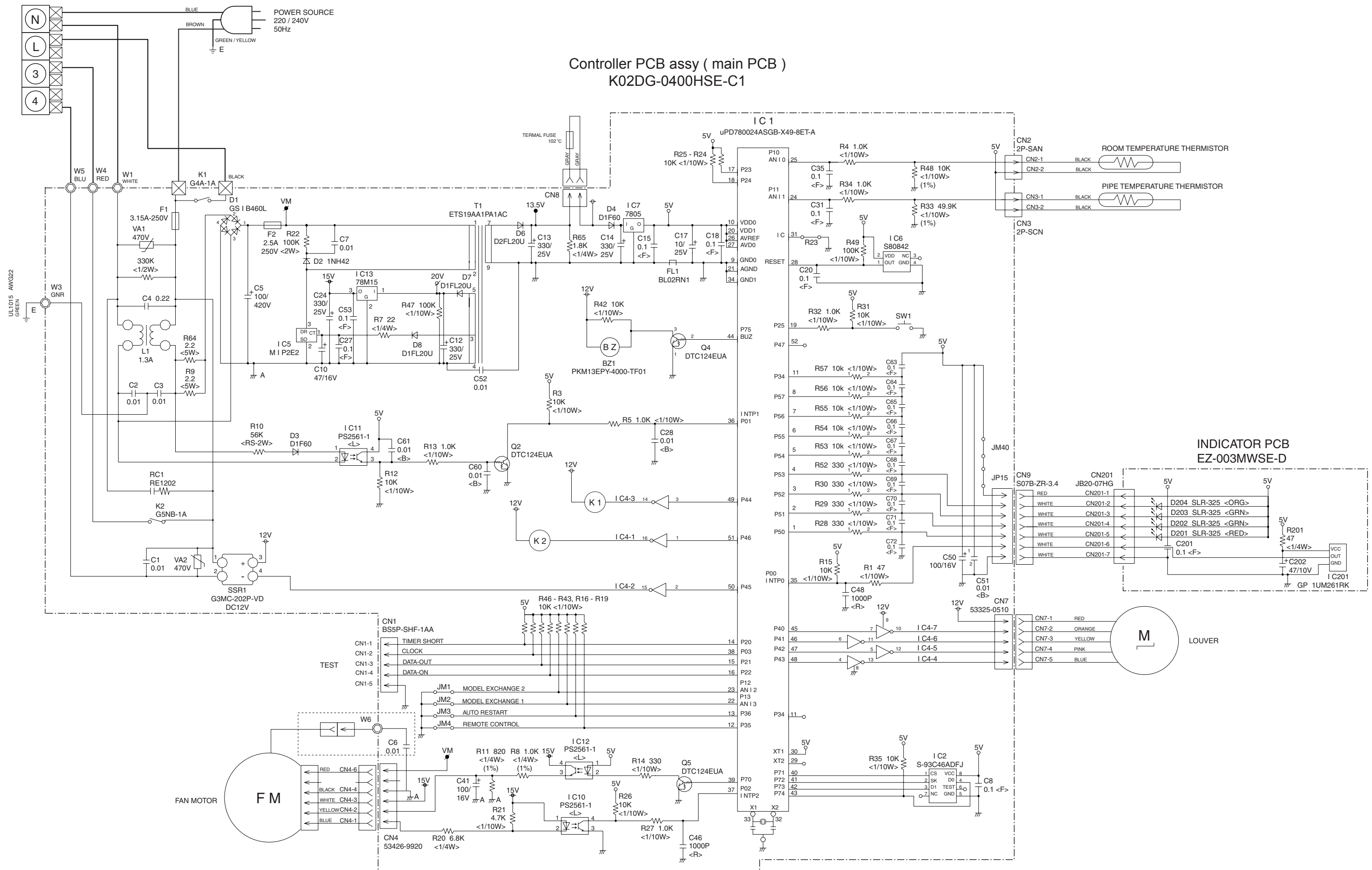


INDOOR PCB CIRCUIT DIAGRAM

Model : ASY14FSBCW



Model : ASY14USBCW



ERROR DISPLAY

Troubleshooting check table

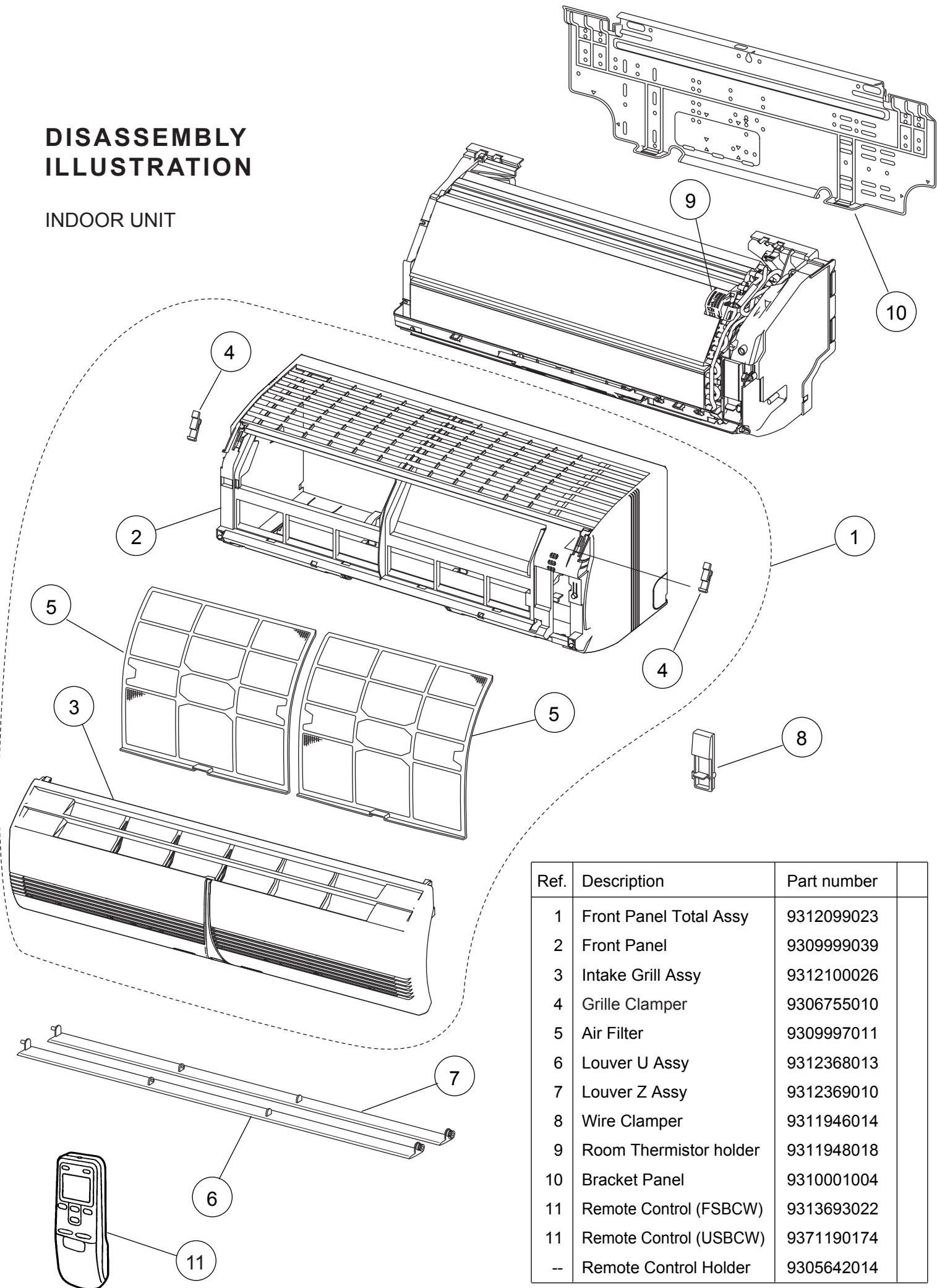
Operation lamp : Red lamp
 Timer lamp : Green lamp

Large division indication			Small division indication		
Error contents	LED indication		Error contents	LED indication	
thermistor error	RED lamp Green lamp	● (2 times) ○	thermistor error (room temp.)	RED lamp Green lamp	○ ● (2 times)
			thermistor error (heat exchanger)	RED lamp Green lamp	○ ● (3 times)
control unit error (indoor unit)	RED lamp Green lamp	● (4 times) ○	MANUAL AUTO button error	RED lamp Green lamp	○ ● (2 times)
			power source Hz decision error	RED lamp Green lamp	○ ● (4 times)
fan motor error (indoor unit)	RED lamp Green lamp	● (6 times) ○	lock error	RED lamp Green lamp	○ ● (2 times)
			rpm error	RED lamp Green lamp	○ ● (3 times)

● : 0.5s ON/OFF repeated
 ○ : 0.1s ON/OFF repeated

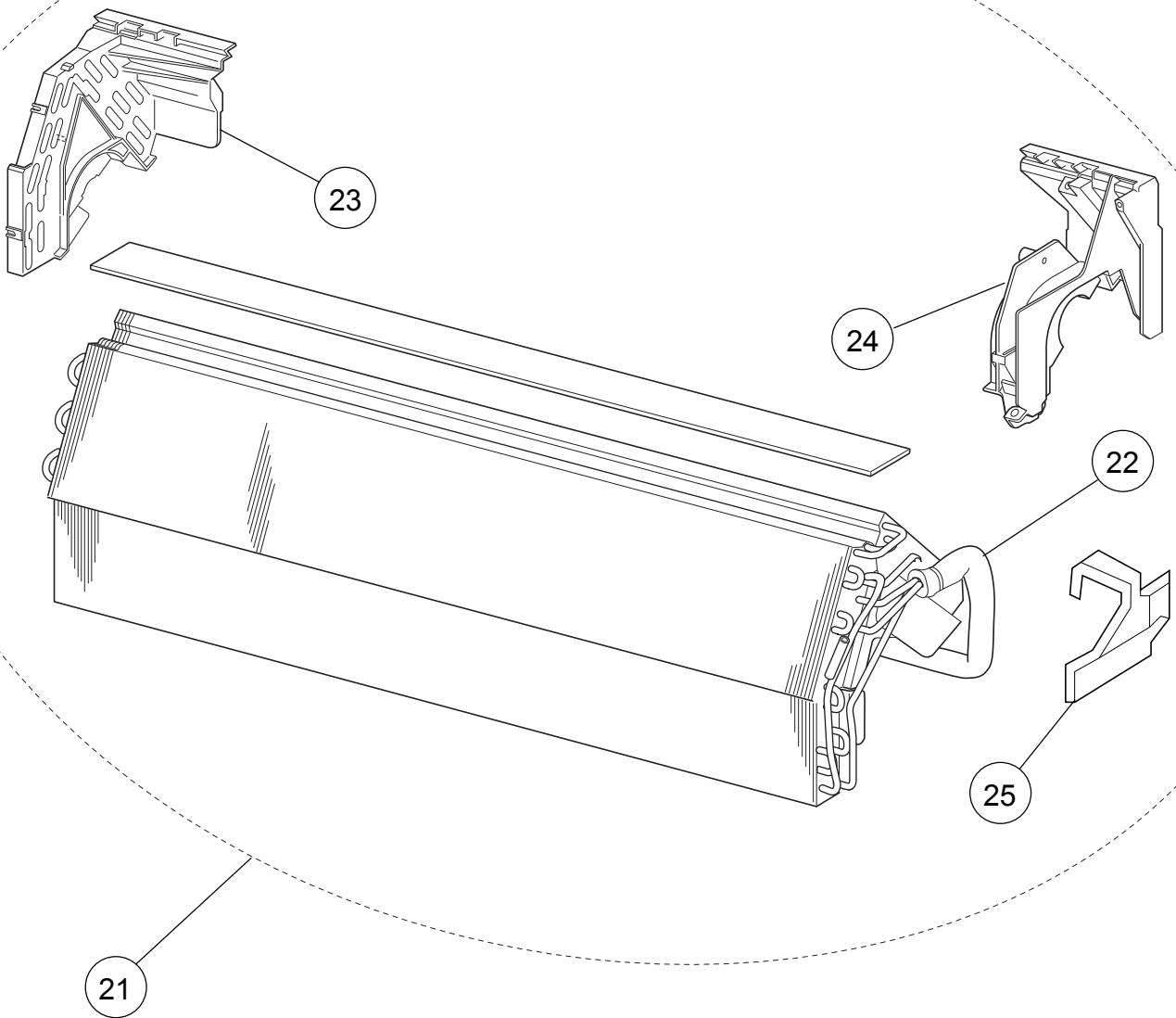
DISASSEMBLY
ILLUSTRATION

INDOOR UNIT

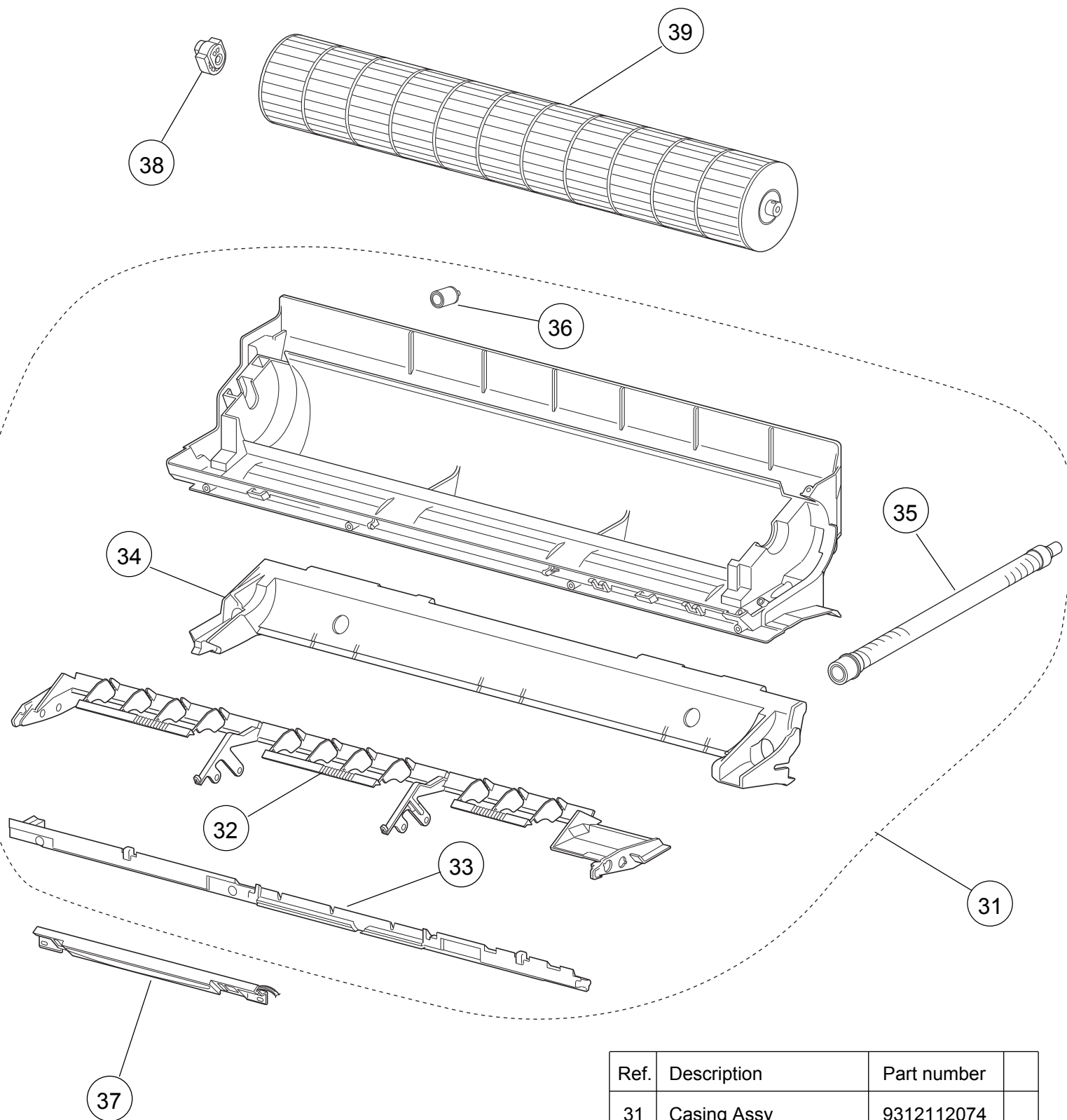


Ref.	Description	Part number	
1	Front Panel Total Assy	9312099023	
2	Front Panel	9309999039	
3	Intake Grill Assy	9312100026	
4	Grille Clamper	9306755010	
5	Air Filter	9309997011	
6	Louver U Assy	9312368013	
7	Louver Z Assy	9312369010	
8	Wire Clamper	9311946014	
9	Room Thermistor holder	9311948018	
10	Bracket Panel	9310001004	
11	Remote Control (FSBCW)	9313693022	
11	Remote Control (USBCW)	9371190174	
--	Remote Control Holder	9305642014	

INDOOR UNIT

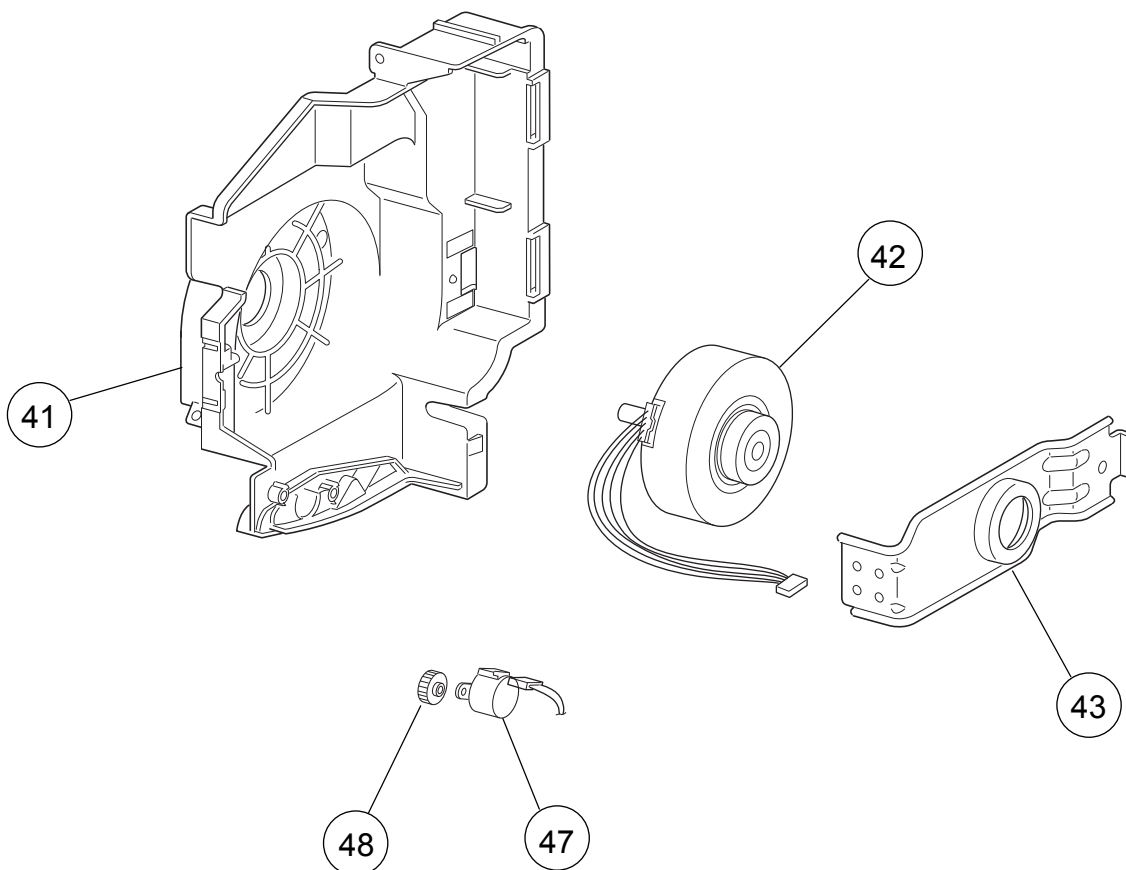


Ref.	Description	Part number	
21	Evaporator Sub Assy	9312108060	
22	Joint Pipe Assy	9313750015	
23	Holder (Evaporator) L Assy	9312360024	
24	Holder (Evaporator) R	9309983014	
25	Water Seal	9312912018	

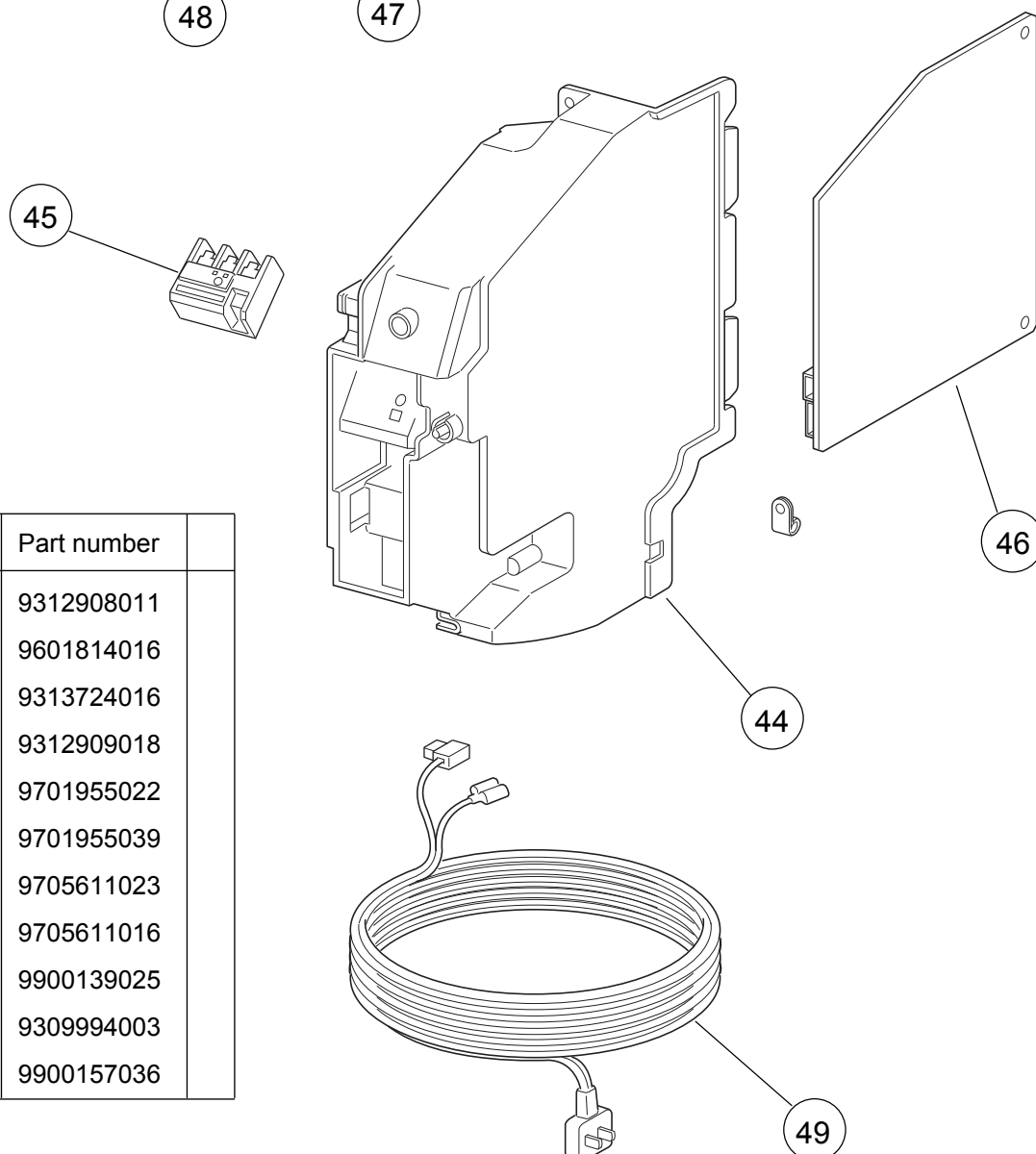


INDOOR UNIT

Ref.	Description	Part number	
31	Casing Assy	9312112074	
32	Holder (Louver) Assy	9312361014	
33	Casing Cover F	9309987005	
34	Casing Cover B	9314160011	
35	Drain hose Assy	9310357026	
36	Drain Cap Assy	9314493010	
37	Display PCB Assy	9705039025	
38	Shaft Holder-C Assy	9306628017	
39	Crossflow Fan Assy	9307836015	



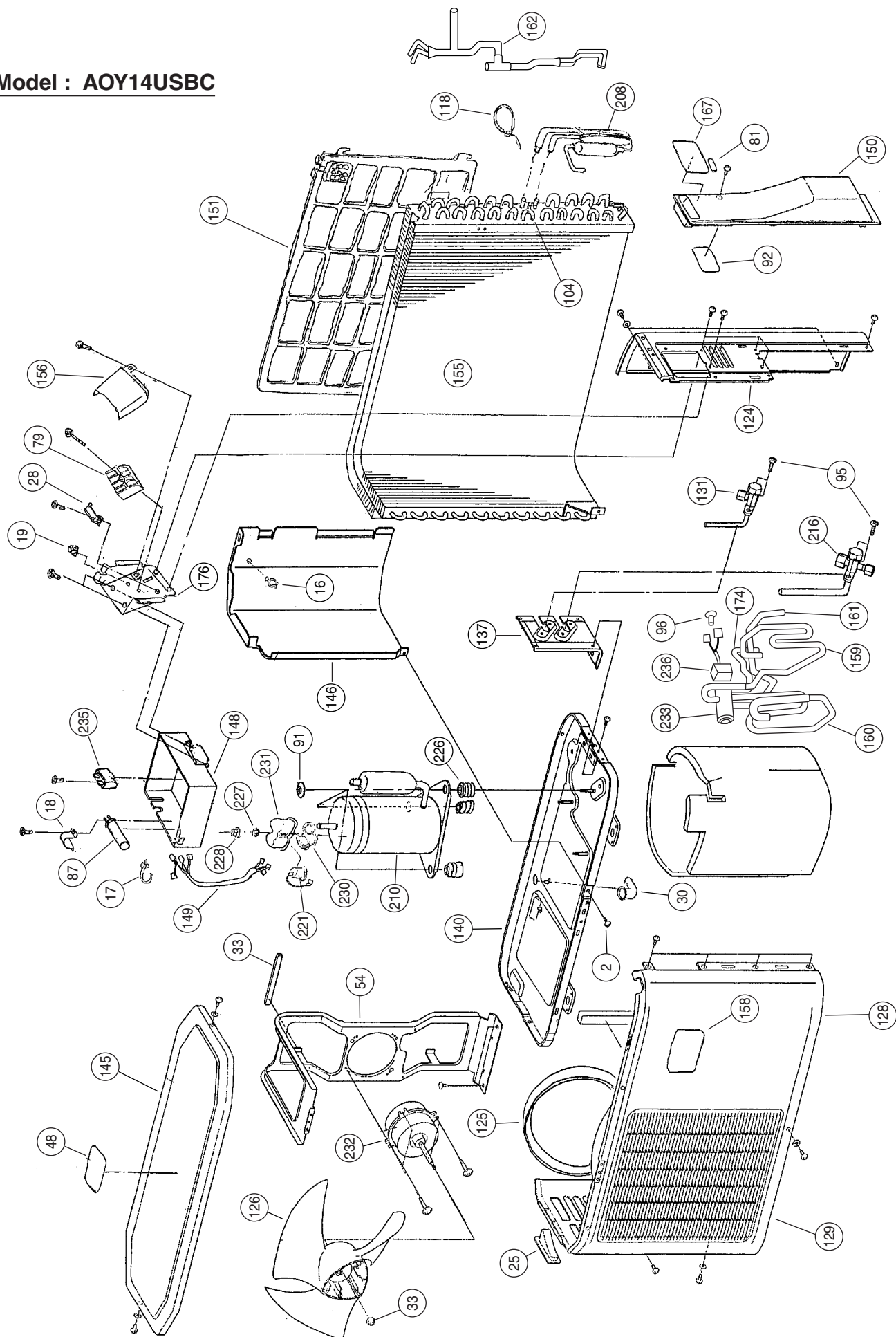
INDOOR UNIT



Ref.	Description	Part number	
41	Switch Box	9312908011	
42	Fan Motor Assy	9601814016	
43	Motor Clamper	9313724016	
44	Switch Cover	9312909018	
45	Terminal (FSBCW)	9701955022	
45	Terminal (USBCW)	9701955039	
46	Controller PCB Assy (F)	9705611023	
46	Controller PCB Assy (U)	9705611016	
47	Step Motor	9900139025	
48	Gear A	9309994003	
49	Power Cord Assy	9900157036	

Model : AOY14FSBC

Model : AOY14USBC

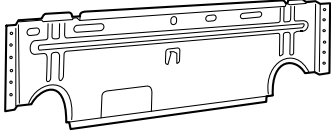
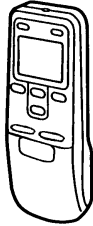
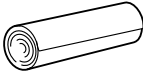
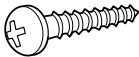
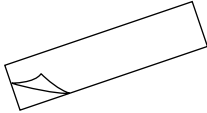
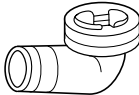


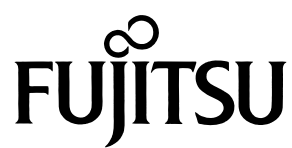
OUTDOOR UNIT

Ref. No.	Description	Part No.	
		AOY14FSBC	
2	Screw, Taptite (Earth)	0700179013	
3	Screw	301171134250	
16	Clamp No.1219	313361271706	
17	Clamp SKB-100	313361275805	
18	Capacitor Clamp	313468061808	
19	Screw with Washer	313681304205	
20	Air Pipe	9300895002	
25	Grip	9302061016	
28	Cord Clamp	9302271002	
33	Heat Insulation (Motor)	9304859000	
35	Special Nut with Washer	9304902003	
48	Label (Warning)	9305870028	
54	Bracket (Motor)	9306047023	
79	Terminal	9306489014	
81	Label (origin)	9306536015	
87	Running Capacitor	9307588068	
91	Special Nut	9307615016	
95	Hex Bolt	9307835001	
96	Screw	9308037008	
104	U-Pipe Y	9308442000	
118	Clamp	9309608016	
124	Panel Rear	9309870024	
125	Fan Ring	9309876019	
126	Propeller Fan	9309909014	
128	Cabinet	9309928053	
129	Blow Grill	9309929012	
131	2-Way Valve	9310084014	
137	BCT (Valve)	9310229026	
140	Base	9310248065	
145	Panel (Top)	9310338063	
146	Separator	9310969014	
148	Box (Switch)	9310971024	
149	Sealed Tube	9305695027	
150	Cover (Switch)	9310979013	
151	Protection Net	9310980019	
155	Condenser	9313725013	
156	Cover (Terminal)	9311021018	
158	Emblem-Rear	9311043003	
169	Top Seal-B	9311088004	
170	Cabinet Seal-B	9311096009	
171	Cabinet Seal-A	9311097006	
172	Top Seal-A	9311099000	
174	Entrance Pipe	9311105008	
176	Bracket (Terminal)	9311347026	
177	Noise Insulation-C	9311480013	
186	Noise Insulation-F	9911642015	
192	Dryer	9312056002	
208	Capillary Assy	9313721015	
210	Compressor Assy	9313741013	
211	OCR	9373129011	
216	3-Way Valve Assy	9313060015	
224	Washer	9351522018	
226	Rubber Sheat-A	9359425014	
227	Terminal Washer	9359428015	
228	Nut	9359430018	
230	Terminal Gasket	9362004008	
231	Terminal Cover	9351120009	
232	Motor, Induct	9601541011	
235	Running Capacitor	9900089030	

Ref. No.	Description	Part No.	
		AOY14USBC	
2	Screw, Taptite (Earth)	0700179013	
3	Screw	301171134250	
16	Clamp No.1219	313361271706	
17	Clamp SKB-100	313361275805	
18	Capacitor Clamp	313468061808	
19	Screw with Washer	313681304205	
25	Grip	9302061016	
28	Cord Clamp	9302271002	
30	Drain Pipe Assy	9303029015	
33	Heat Insulation (Motor)	9304859000	
35	Special Nut with Washer	9304902003	
48	Label (Warning)	9305870028	
54	Bracket (Motor)	9306047030	
79	Terminal	9306488017	
81	Label (origin)	9306536015	
87	Running Capacitor	9307588068	
91	Special Nut	9307615016	
95	Hex Bolt	9307835001	
96	Screw	9308037008	
104	U-Pipe Y	9308442000	
118	Clamp	9309608016	
124	Panel Rear	9309870024	
125	Fan Ring	9309876019	
126	Propeller Fan	9309909014	
128	Cabinet, Painted	9309928053	
129	Blow Grill	9309929012	
131	2-Way Valve	9313056018	
137	BCT (Valve)	9310229026	
140	Base, Painted	9310248065	
145	Panel (Top), Painted	9310338063	
146	Separator	9310969014	
148	Box (Switch)	9310971024	
150	Cover (Switch)	9310979013	
151	Protection Net	9310980019	
155	Condenser	9312587018	
156	Cover (Terminal)	9311021018	
158	Emblem-Rear	9311043003	
169	Top Seal-B	9311088004	
170	Cabinet Seal-B	9311096009	
171	Cabinet Seal-A	9311097006	
172	Top Seal-A	9311099000	
176	Bracket (Terminal)	9311347026	
177	Noise Insulation-C	9311480013	
186	Noise Insulation-F	9911642015	
208	Capillary Assy	9313715014	
210	Compressor Assy	9313741013	
211	OCR	9373129011	
216	3-Way Valve Assy	9313060015	
224	Washer	9351522018	
226	Rubber Sheat-A	9359425014	
227	Terminal Washer	9359428015	
228	Nut	9359430018	
230	Terminal Gasket	9362004008	
231	Terminal Cover	9351120009	
232	Motor, Induct	9601541011	
233	4-Way Valve	9900162016	
235	Running Capacitor	9900089030	
236	Solenoid	9970003011	

ACCESSORIES

Name and Shape	Part No.
Wall hook bracket 	9310001004
Remote control 	9313693022 for FSBCW 9371190174 for USBCW
Battery (penlight) 	0600185534
Cloth tape 	9310519004
Tapping screw (big) 	0700076046
Tapping screw (small) 	0700019036
Seal A 	9304536000
Remote control unit holder 	9305642014
Drain Pipe 	9303029015



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