

SPLIT TYPE
ROOM AIR CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL



Indoor unit	Outdoor unit
ASY14FSACW	AOY14FSAC
ASY14USACW	AOY14USAC

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SPECIFICATIONS

TYPE		COOL	COOL & HEAT
INDOOR UNIT		ASY14FSACW	ASY14USACW
OUTDOOR UNIT		AOY14FSAC	AOY14USAC
COOLING CAPACITY	(kW)	4.10 - 4.15	3.95 - 4.00
HEATING CAPACITY	(kW)	-----	4.85 - 4.95

ELECTRICAL DATA

POWER SOURCE		(V)	220 - 240	
FREQUENCY		(Hz)	50	
RUNNING CURRENT	(A)	COOLING	7.2 - 7.3	7.3 - 7.4
		HEATING	----	7.4 - 7.6
INPUT WATTS	(kW)	COOLING	1.53 - 1.60	1.55 - 1.62
		HEATING	----	1.56 - 1.65
E.E.R.	(kW/kW)	COOLING	2.68 - 2.59	2.55 - 2.47
		HEATING	----	3.11 - 3.00
MOISTURE REMOVAL		(ℓ /hr)	2.0	2.0
AIR CIRCULATION-HI		(m³/hr)	C 510 - 510	C 510 - 510 H 560 - 560

COMPRESSOR

TYPE	Hermetic type, Permanent split condenser, 2 pole, Single phase, Induction motor		
POWER SOURCE	220-240V 50Hz		
DISCRIMINATION	80238235		
REFRIGERANT	R410A	(g)	1,100

Note : Always use a vacuum pump to purge the air.
Refrigerant for purging the air is not charged in the outdoor unit at the factory.

FAN MOTOR

POWER SOURCE		(V)	220 - 240	
INDOOR UNIT	HI-SPEED	(r.p.m.)	1,380 - 1,380	C 1,380 - 1,380 H 1,480 - 1,480
	MED-SPEED	(r.p.m.)	1,290 - 1,290	C 1,290 - 1,290 H 1,320 - 1,320
	LO-SPEED	(r.p.m.)	1,200 - 1,200	C 1,200 - 1,200 H 1,180 - 1,180
	QUIET	(r.p.m.)	1,120 - 1,120	C 1,120 - 1,120 H 1,030 - 1,030
OUTDOOR UNIT		(r.p.m.)	770 - 800	770 - 800

DIMENSIONS

INDOOR UNIT	H x W x D	(mm)	280 x 815 x 179
OUTDOOR UNIT	H x W x D	(mm)	535 x 695 x 250

WEIGHT

INDOOR UNIT	GROSS / NET	(kg)	12 / 10
OUTDOOR UNIT	GROSS / NET	(kg)	37 / 34

NOISE LEVEL

INDOOR UNIT	HI-SPEED (dB)	42 - 42	C 42 - 42 H 42 - 42
	MED-SPEED (dB)	40 - 40	C 40 - 40 H 40 - 40
	LO-SPEED (dB)	39 - 39	C 39 - 39 H 34 - 34
	SUPER QUIET (dB)	37 - 37	C 37 - 37 H 32 - 32
OUTDOOR UNIT (dB)		47 - 48	C 47 - 48 H 49 - 49

Note : Noise was measured in accordance with JIS standards, Japan.

ADDITIONAL REFRIGERANT CHARGE

Refrigerant suitable for a piping length of 7.5 m is charged in the outdoor unit at the factory.

When the piping is longer than 7.5 m, additional charging is necessary.

For the additional amount, see the table below.

PIPE LENGTH	7.5 m	10 m	15 m
ADDITIONAL REFRIGERANT	None	50 g	150 g

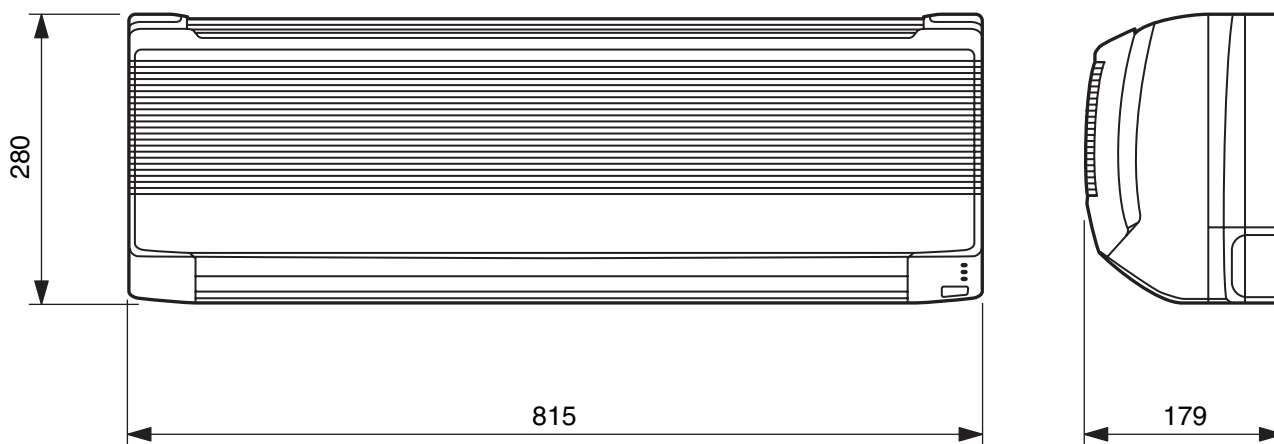
Between 7.5 m and 15 m, when using a connection pipe other than that in the table, charge additional refrigerant with 20 g /1 m as the criteria.

(The maximum length of the piping is 15 m. If the units are further apart than this, correct operation can not be guaranteed.)

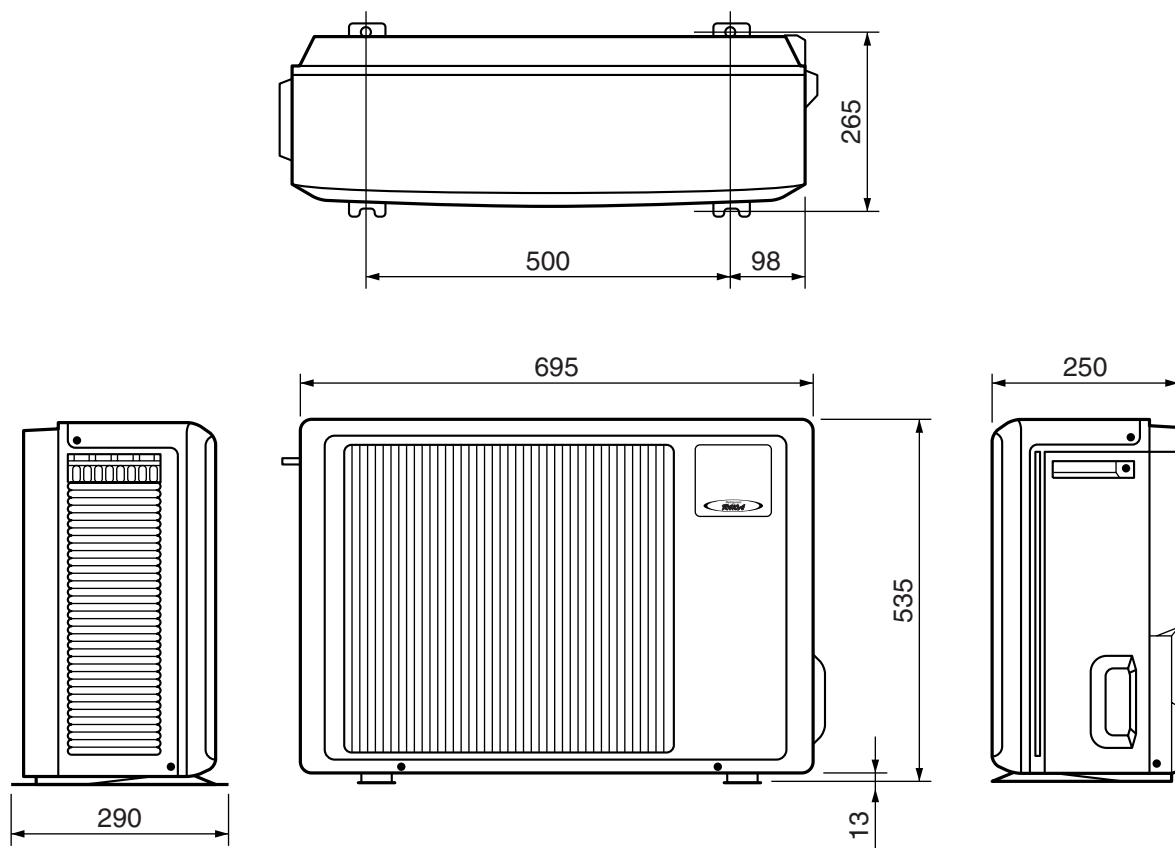
DIMENSIONS

INDOOR UNIT

Unit : mm

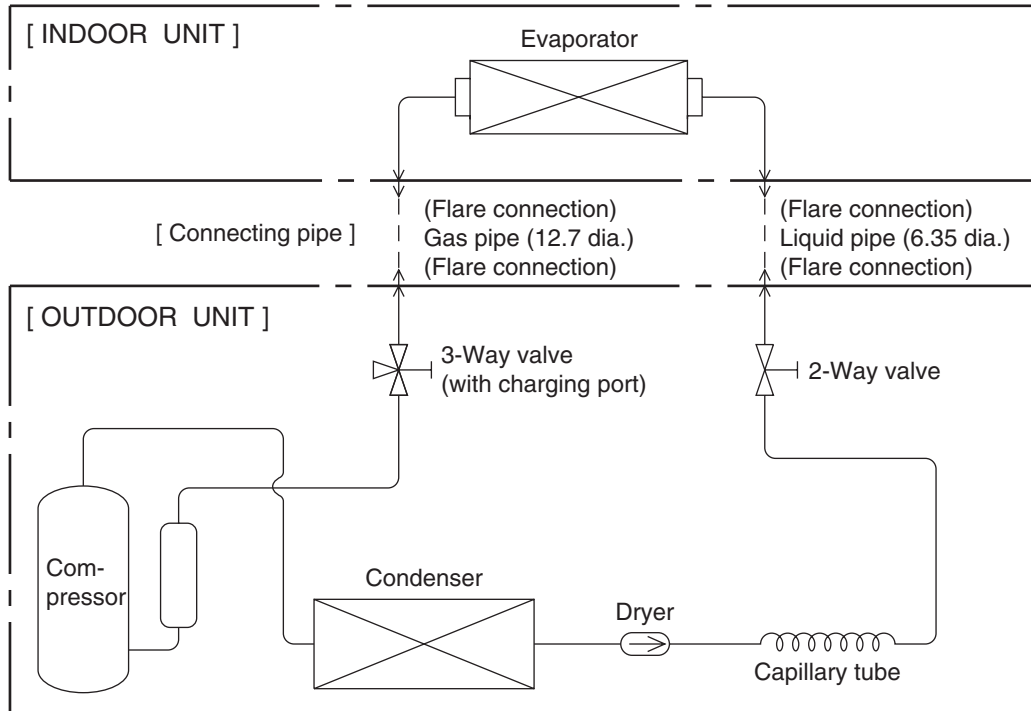


OUTDOOR UNIT

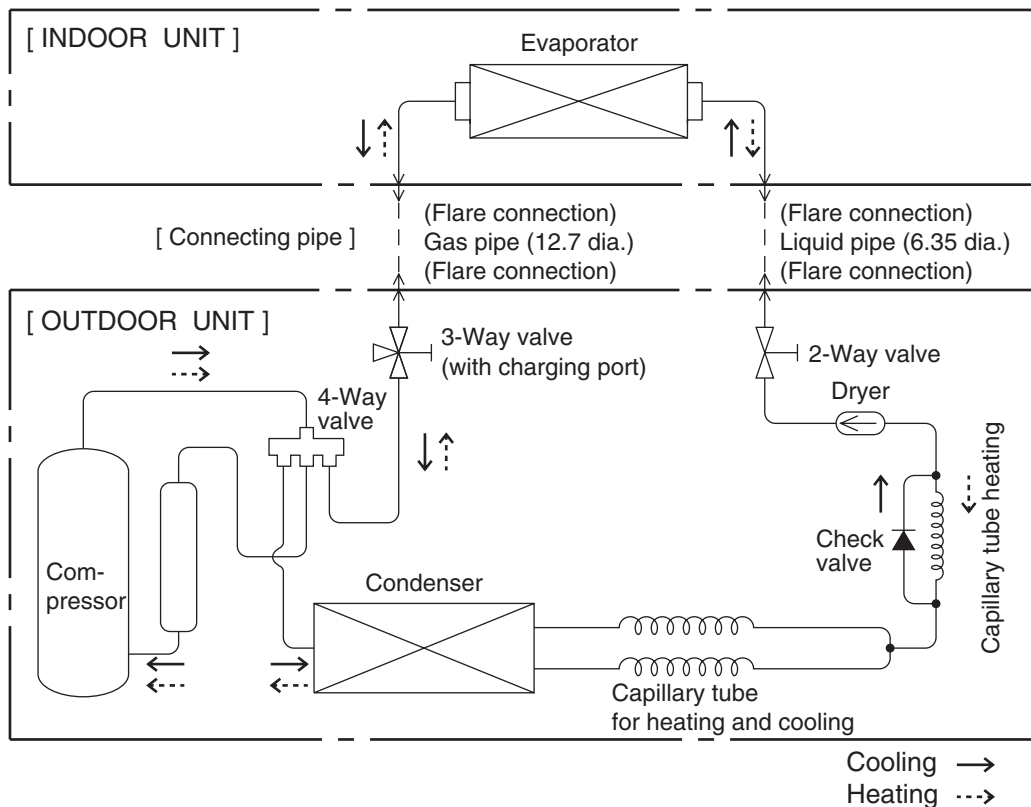


REFRIGERANT SYSTEM DIAGRAM

Models : ASY14FSACW / AOY14FSAC

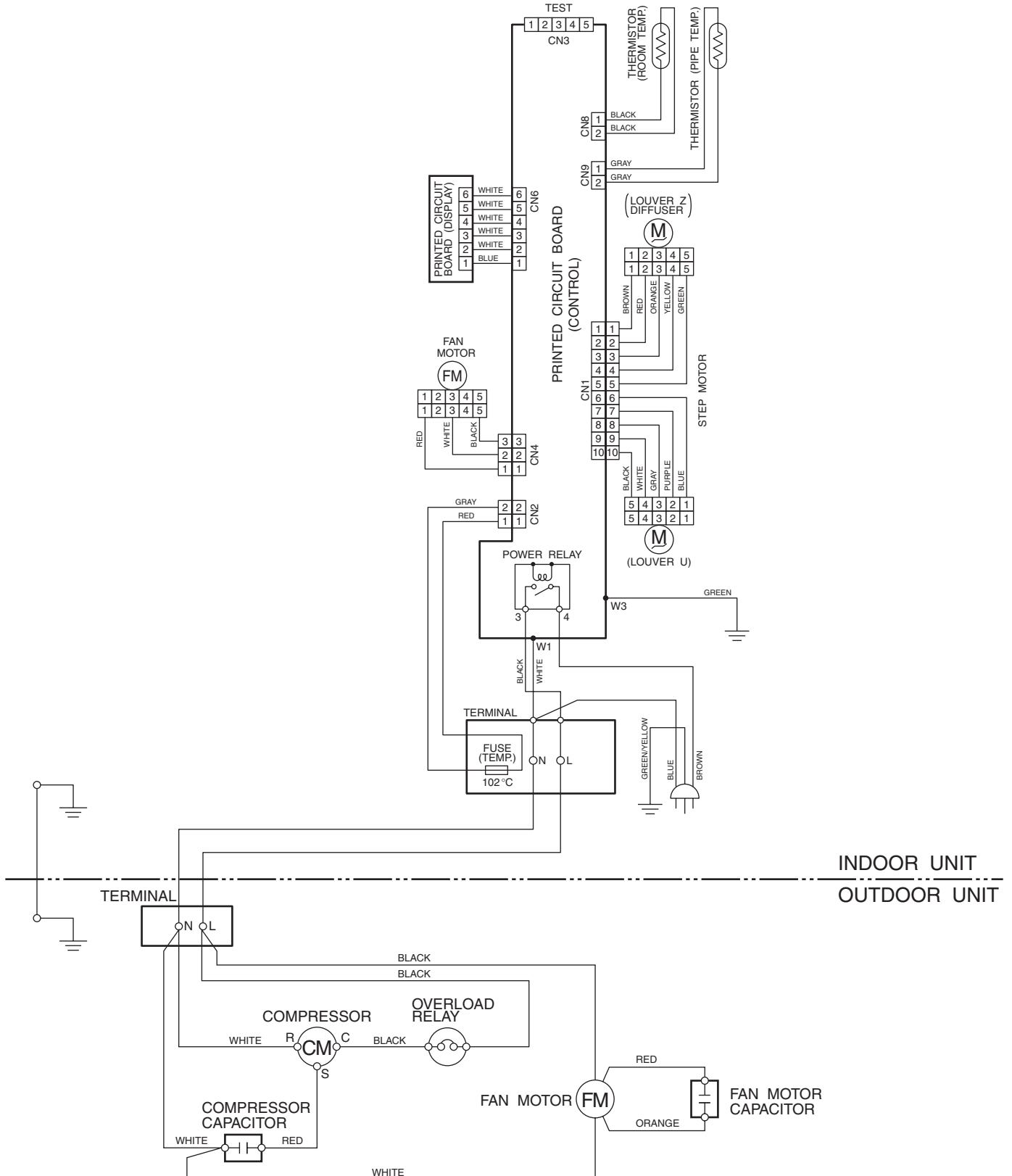


Models : ASY14USACW / AOY14USAC

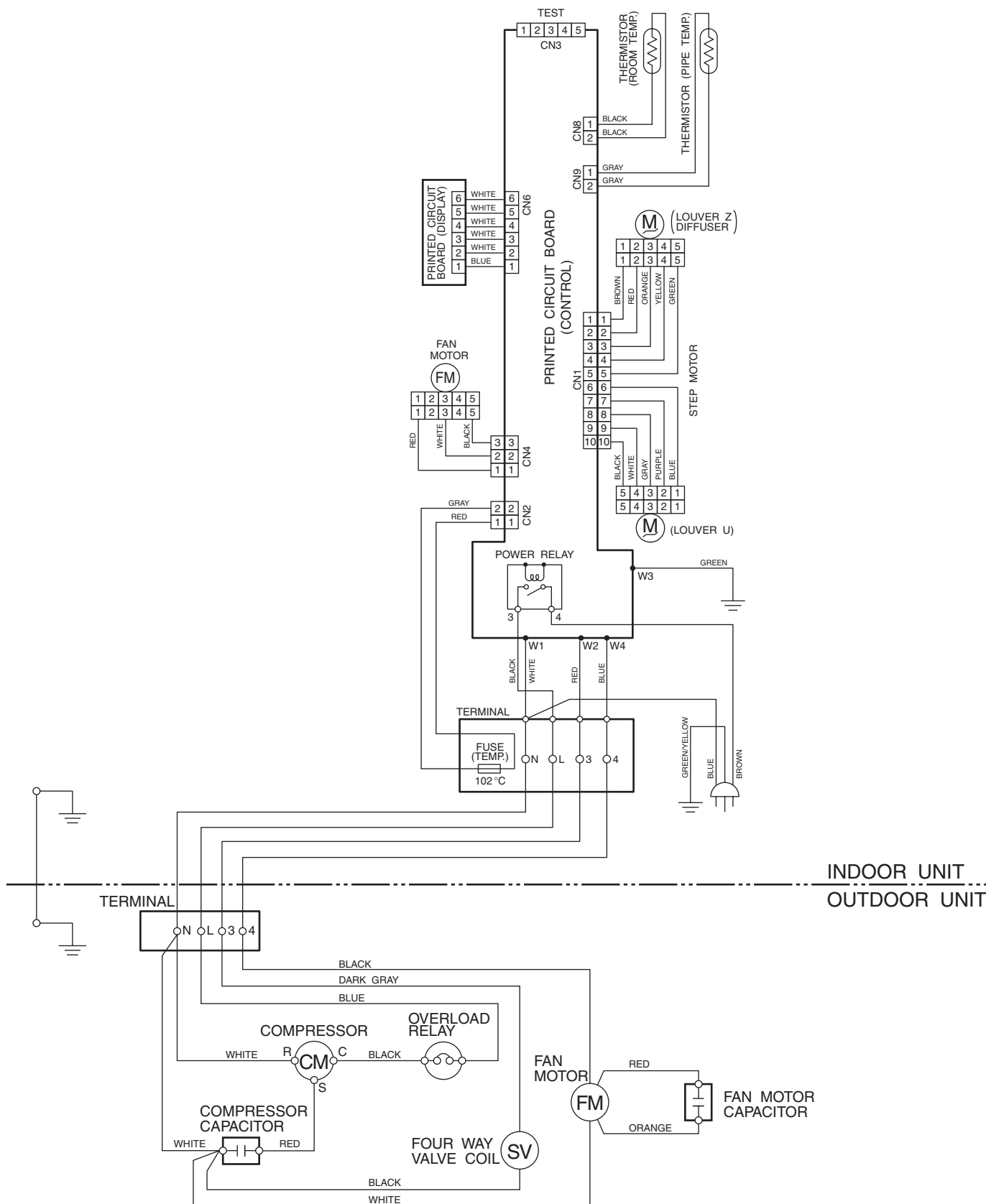


CIRCUIT DIAGRAM

Models : ASY14FSACW / AOY14FSAC

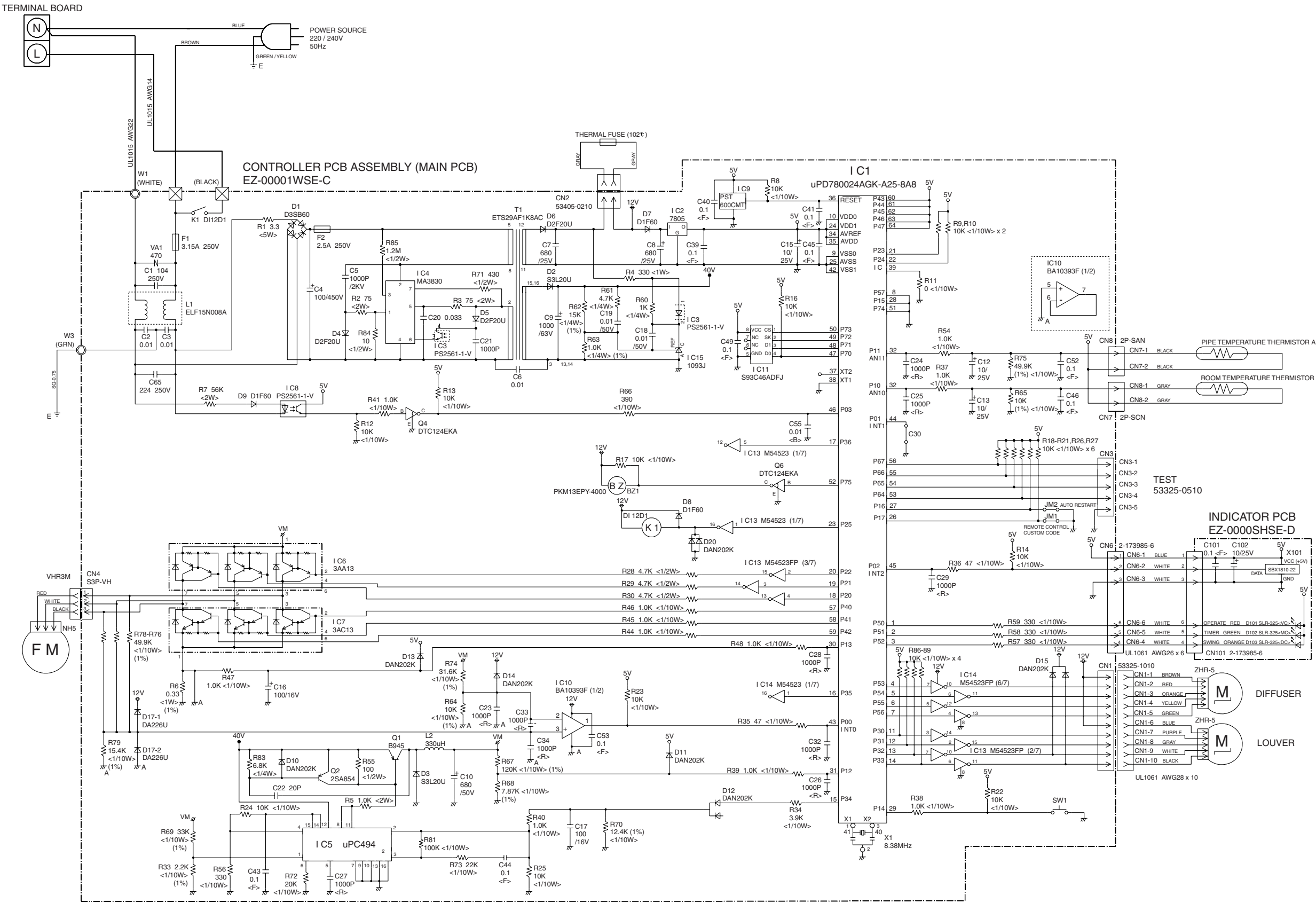


Models : ASY14USACW / AOY14USAC



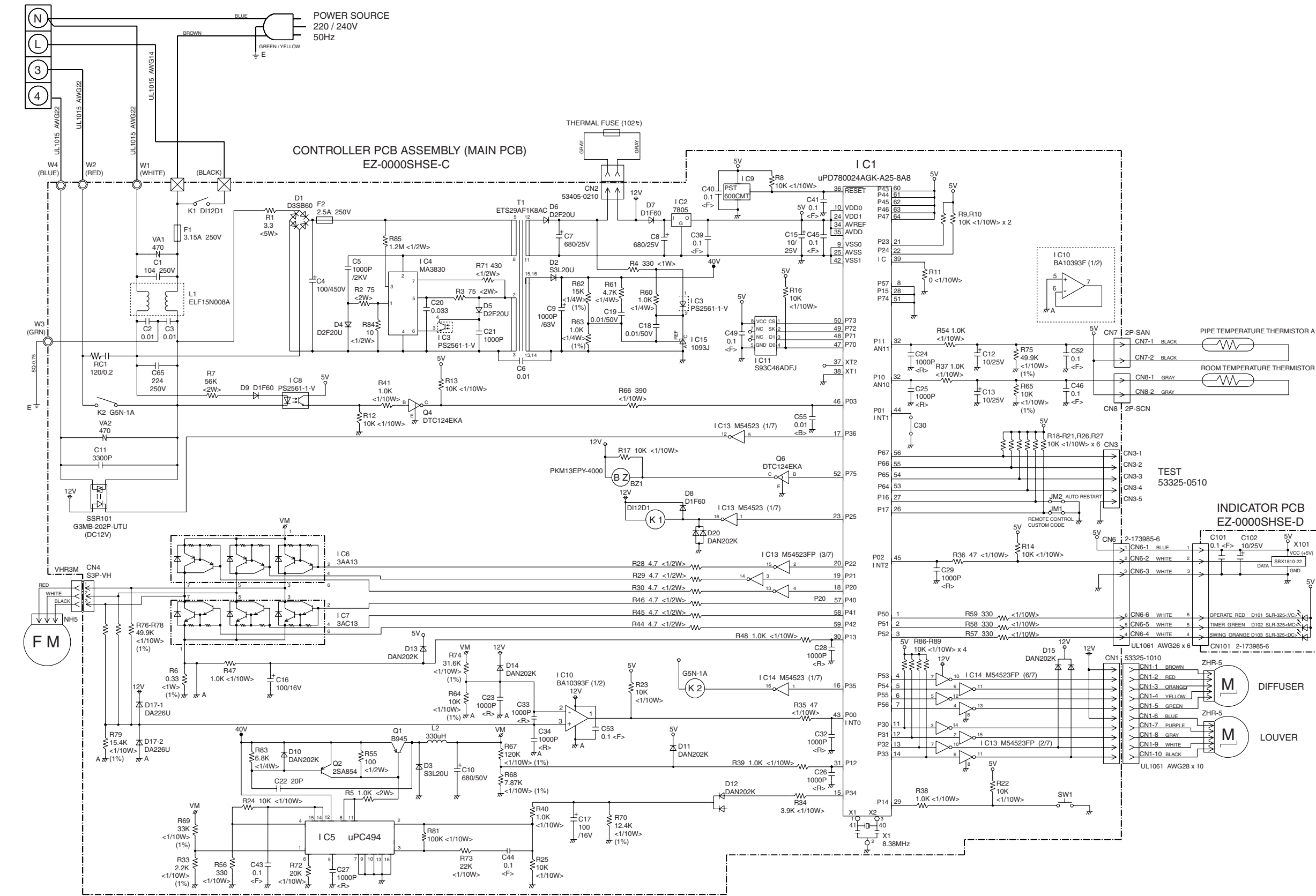
INDOOR PCB CIRCUIT DIAGRAM

Model : ASY14FSACW



Model : ASY14USACW

TERMINAL BOARD



ERROR DISPLAY

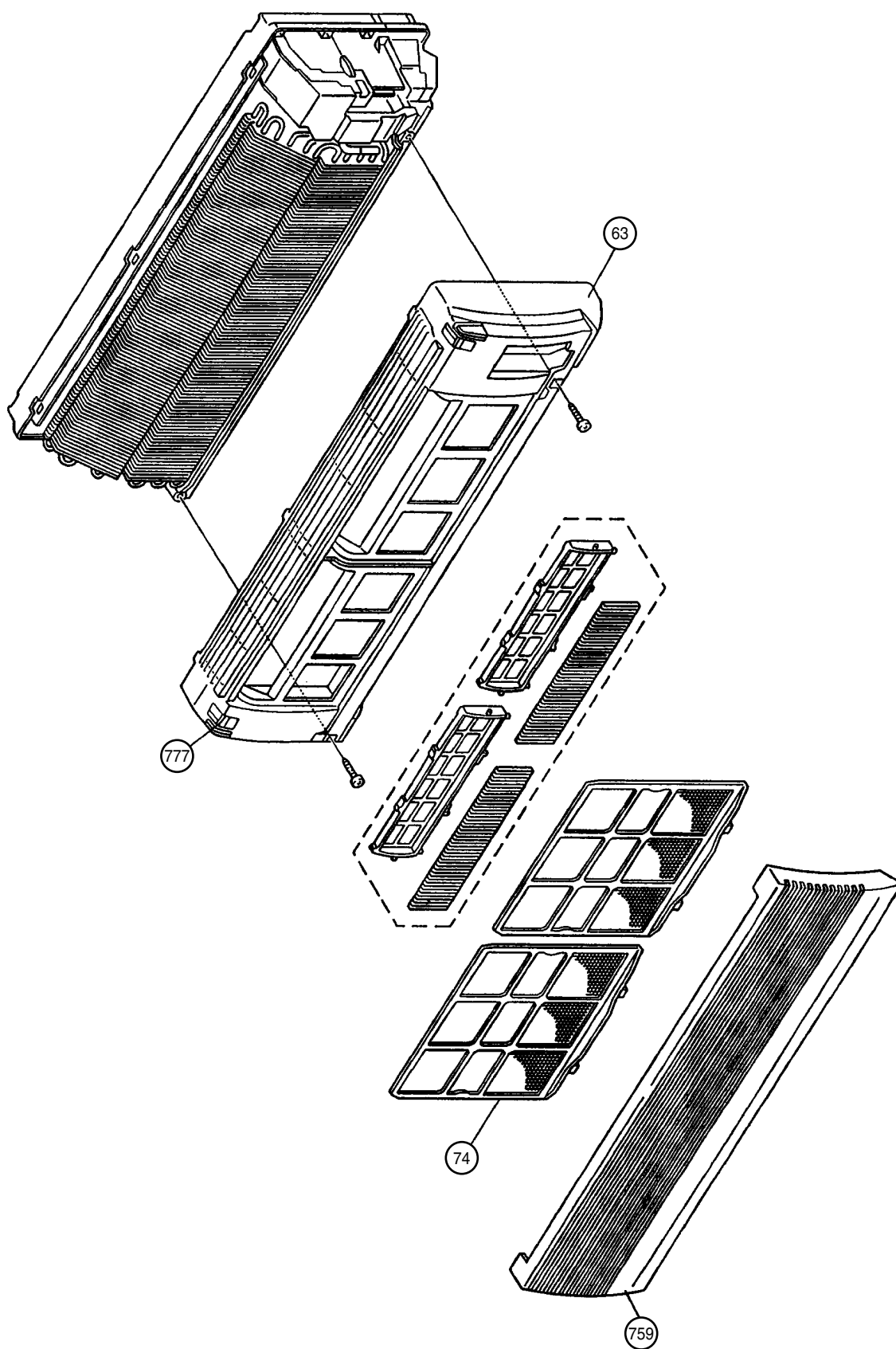
Troubleshooting check table

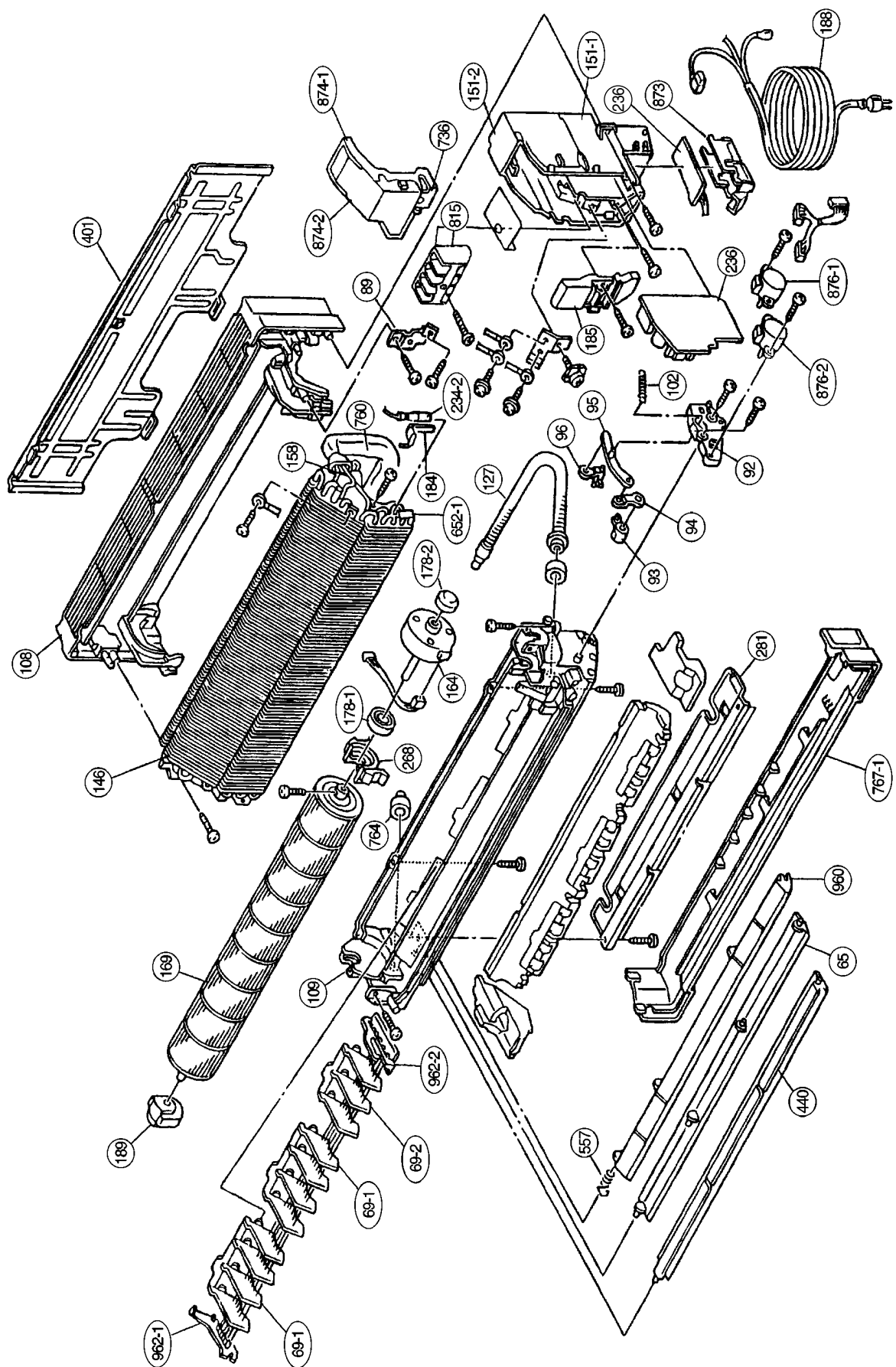
Operation lamp : Red lamp
 Timer lamp : Green lamp

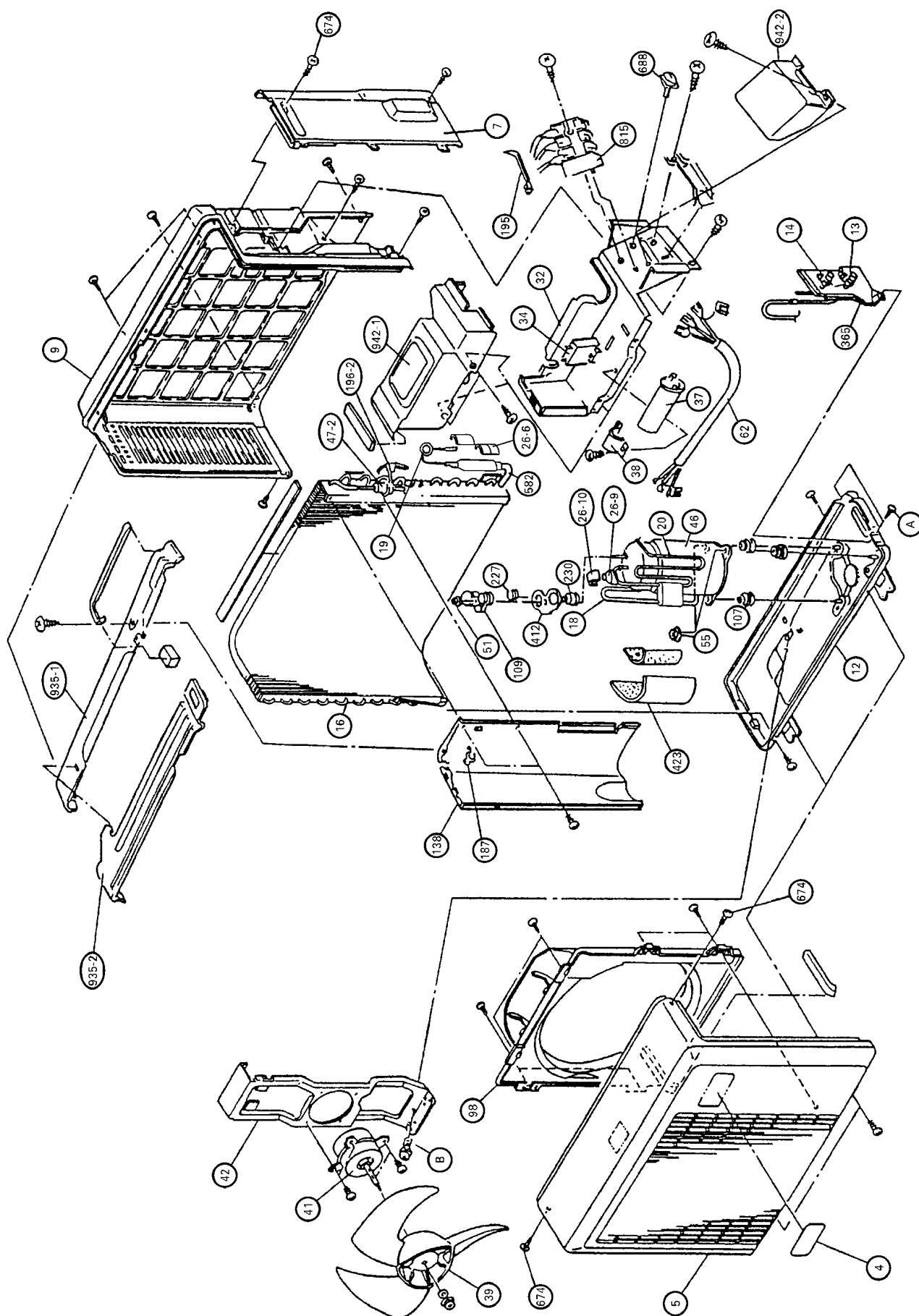
Large division indication			Small division indication		
Error contents	LED indication		Error contents	LED indication	
Thermistor error	Red lamp Green lamp	● (2 times) ○	Thermistor error (room temp.)	Red lamp Green lamp	○ ● (2 times)
			Thermistor error (heat exchanger)	Red lamp Green lamp	○ ● (3 times)
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)
			r.p.m. error	Red lamp Green lamp	○ ● (3 times)

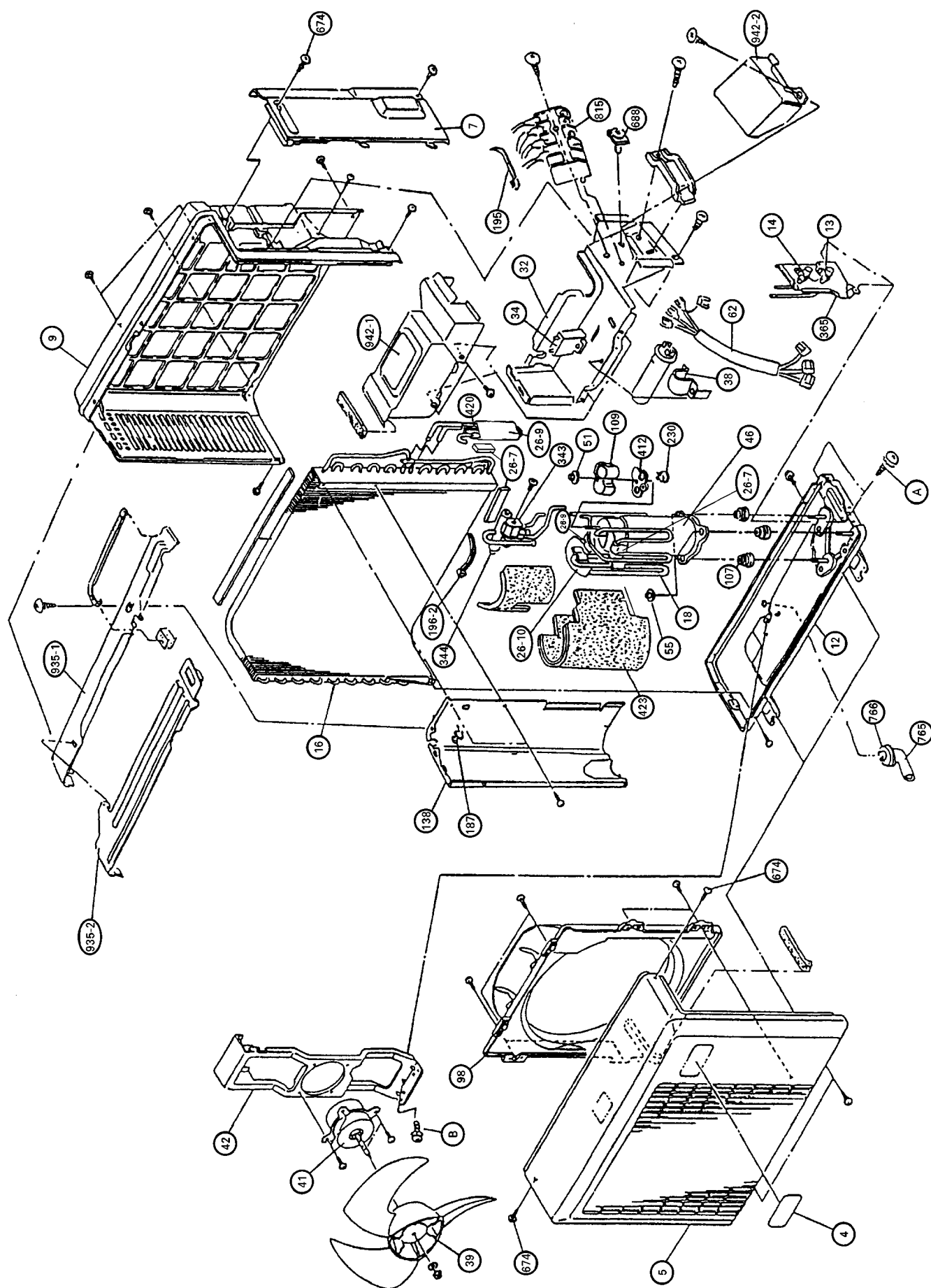
● : 0.5s ON/OFF repeated
 ○ : 0.1s ON/OFF repeated

DISASSEMBLY ILLUSTRATION









PARTS LIST

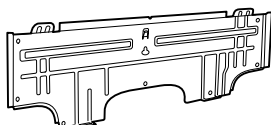
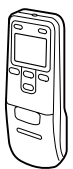
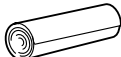
INDOOR UNIT

Ref.	Description	Part number	
		ASY14FSACW	ASY14USACW
63	Front Panel Assy	9306817176	9306817176
65	Flow Control Panel-Z	9306571016	9306571016
69-1	Louver-A	9306583019	9306583019
69-2	Louver-C	9309884014	9309884014
74	Filter	9306601034	9306601034
89	Casing Fixture	9307018008	9307018008
92	Link Plate	9306577018	9306577018
93	Link-A	9306573010	9306573010
94	Link-B	9306574017	9306574017
95	Link-C	9306575014	9306575014
96	Link-D	9306576011	9306576011
102	Link Spring	9306610012	9306610012
108	Base	9306566012	9306566012
109	Casing	9306569013	9306569013
127	Drain Hose Assy	9305550029	9305550029
146	Evaporator Sub Assy	9310152027	9310152027
151-1	Control Box	9306590024	9306590024
151-2	Control Box-A	9306594015	9306594015
158	Conncting Pipe Assy	9310848012	9310848012
164	Fan Motor Assy	9306829025	9306829025
169	Crossflow Fan Assy	9307836015	9307836015
178-1	Motor Cushion-A (For Fan Motor)	9306751012	9306751012
178-2	Motor Cushion-B (For Fan Motor)	9306580018	9306580018
184	Thermistor Spring	313104262701	313104262701
185	Wire Clamp	9306592011	9306592011
188	Power Cord Assy	9900032029	9900032029
189	Shaft Holder-C	9306628017	9306628017
234-2	Thermistor (Pipe)	9702039011	9702039011
236	PCB Assy (Controller + Indicator)	9703917042	9703917035
		(EZ-00001WSE-F)	(EZ-0000SHSE-F)
240	Remote Control	9374322220	9374322015
268	Motor Cover-B	9306582012	9306582012
281	Clamp Metal (Pipe)	9306607012	9306607012
401	Wall Hook Bracket	9306588014	9306588014
440	Flow Control Panel-U	9309883017	9309883017
557	Diffuser Spring	9306611019	9306611019
652-1	Thermistor Holder Pipe	313714262805	313714262805
736	Control Panel	9306620011	9306620011
759	Intake Grille	9307128011	9307128011
764	Drain Cap Assy	9304150008	9304150008
767-1	Bottom Cover-A	9306567019	9306567019
777	Intake Grille Clamp	9306755010	9306755010
815	Terminal	9701955022	9701955039
873	Lamp Cover	9306593025	9306593025
874-1	Control Box Cover	9306591014	9306591014
874-2	Control Box Cover-A	9306595012	9306595012
876-1	Step Motor	9305780006	9305780006
876-2	Step Motor	9900030018	9900030018
900	Wire Connector-S	9306765019	9306765019
901	Screw (w/Spring Washer)	0700179013	0700179013
960	Diffuser	9306572013	9306572013

OUTDOOR UNIT

Ref.	Description	Part number		
		AOY14FSAC	AOY14USAC	
4	Emblem-Rear	9308468017	9308468017	
5	Cabinet Front Panel, Plastic	9306386016	9306386016	
7	Connector Cover (Cabinet)	9306119010	9306119010	
9	Cabinet Rear Panel, Plastic	9306385019	9306385019	
12	Base Assy, Painted	9306118068	9306118068	
13	3-Way Valve Assy	9313060015	9313060015	
14	2-Way Valve Assy	9313056018	9313056018	
16	Condenser Assy	9310195017	9310183014	
18	Suction Pipe	9308679000	9309904002	
19	Capillary Tube	9310192009	----	
20	Discharge Pipe Assy	9308681003	9310186008	
26-6	BR Sheet 100 x 120 x T5	9305039029	----	
26-7	BR Sheet 30 x 120 x T7	9305039036	9305039036	
26-9	BR Sheet 180 x 180 x T2	9305039067	9305039067	
26-10	BR Sheet 100 x 160 x T5	9305039074	9305039074	
32	Control Box Metal	9308561015	9308561015	
34	Capacitor (Fan Motor)	9900089023	9900089023	
37	Capacitor (Running)	9307588068	9307588068	
38	Clamp Metal (Capacitor)	313468061808	313468061808	
39	Propeller Fan	9305538003	9305538003	
41	Fan Motor Assy-Out	9307715020	9307715020	
42	Bracket (Motor)	9305536030	9305536030	
46	Compressor Assy	9310181003	9310181003	
47-2	Discharge Pipe Raubber	313185159802	----	
51	Special Nut M5	313199233602	313199233602	
55	Special Nut M8	9307615016	9307615016	
62	Wire Assy (Shield)-A	9305695027	9305695027	
98	Fan Ring	9305581023	9305581023	
107	Rubber Sheet-A	9351813017	9351813017	
109	Terminal Cover (For Comp.)	9351120009	9351120009	
138	Separate Wall	9305971008	9305971008	
187	Clamp No. 1219	313361271706	313361271706	
195	Clamp SKB-100	313361275805	313361275805	
196	Clamp SKB-150	313035356905	313035356905	
196-2	Clamp SKB-3MC	9305335008	9305335008	
230	Overload Relay	9310182000	9310182000	
343	Solenoid Coil	----	9360538031	
344	4-Way Valve	----	9307609015	
365	Bracket (Valve)	9306748012	9306748012	
412	Terminal Gasket (For Comp.)	9351121006	9351121006	
420	Capillary Assy (with Check Valve)	----	9310134009	
423	Noise Insulation-F	9351813017	9351813017	
582	Discharge Pipe	9309896000	----	
620	Inlet Pipe Assy	----	9308455017	
674	Tapping Screw (Special)	9305848010	9305848010	
688	Screw (with Square Washer)	313681304205	313681304205	
765	Drain Pipe	----	9301102000	
766	Drain Pipe Packing	----	9301143003	
815	Terminal-3P	9306489014	----	
815	Terminal-5P	----	9310144008	
935-1	Reinforcement (Cabinet Top)	9305973002	9305973002	
935-2	Reinforcement-F (Cabinet Top)	9306123000	9306123000	
942-1	Control Box Cover-A Metal	9308562012	9308562012	
942-2	Control Box Cover-B Metal	9305975006	9305975006	
981	Cord Clamp (Plastic, Black)	9302271002	9302271002	
991	Dryer	9310183014	9310183014	
A	Screw (with Inner Washer)	9357297002	9357297002	
B	Screw (with Inner Washer)	0700179013	0700179013	

STANDARD ACCESSORIES

Name and Shape	Part No.	
	ASY14FSACW	ASY14USACW
Wall hook bracket 	9306588014	9306588014
Remote control unit 	9307979040	9307979033
Remote control holder case 	9305642014	9305642014
Battery (penlight) 	313187358304	313187358304
Cloth tape 	9304232001	9304232001
Seal-A 	9304536000	9304536000
Tapping screw (big) (ϕ 4 x 25) 	0700076046	0700076046
Tapping screw (small) (ϕ 3 x 12) 	301141533125	301141533125

