



SPLIT TYPE ROOM AIR CONDITIONER

WALL MOUNTED type

SERVICE MANUAL



Models	Indoor unit	Outdoor unit
	RS-7FB	RO-7FBC
	RS-7UB	RO-7UBC

C O N T E N T S

SPECIFICATIONS	1
OUTLINE AND DIMENSIONS	3
CIRCUIT DIAGRAM	4
REFRIGERANT SYSTEM DIAGRAM	6
INDOOR P. C. BOARD CIRCUIT DIAGRAM	7
DISASSEMBLY ILLUSTRATION	10
PARTS LIST	15
STANDARD ACCESSORIES	17

S P E C I F I C A T I O N S

TYPE		COOL	COOL & HEAT
INDOOR UNIT		RS-7FB	RS-7UB
OUTDOOR UNIT		RO-7FBC	RO-7UBC
COOLING CAPACITY	(kW)	2.10 - 2.10	2.10 - 2.10
HEATING CAPACITY	(kW)	—	2.30 - 2.35

ELECTRICAL DATA

POWER SOURCE	(V)	220 - 240	220 - 240
FREQUENCY	(Hz)	50	50
RUNNING CURRENT	(A)		
	COOLING	3.0 - 3.1	3.7 - 3.8
	HEATING	—	3.4 - 3.6
INPUT WATTS	(kW)		
	COOLING	0.63 - 0.67	0.78 - 0.82
	HEATING	—	0.71 - 0.77
EER	(kW/kW)		
	COOLING	3.33 - 3.13	2.69 - 2.56
	HEATING	—	3.24 - 3.05
MOISTURE REMOVAL	(ℓ/hr)	1.0	1.0
AIR CIRCULATION-Hi	(m³/hr)	415	COOL 355 HEAT 370

COMPRESSOR

TYPE	Hermetic type, Permanent split condenser, 2 Pole, Single phase, Induction motor		
CODE	80206335B 220-240V 50Hz	80210035C 220-240V 50Hz	
REFRIGERANT	R410A (g)	600	600

FAN MOTOR

POWER SOURCE	(V)	220 - 240	220 - 240
INDOOR UNIT	HI-SPEED (r.p.m.)	1,150 - 1,150	COOL 1,230 - 1,230 HEAT 1,280 - 1,280
	MED-SPEED (r.p.m.)	1,080 - 1,080	COOL 1,130 - 1,130 HEAT 1,180 - 1,180
	LO-SPEED (r.p.m.)	1,010 - 1,010	COOL 1,030 - 1,030 HEAT 1,080 - 1,080
	QUIET (r.p.m.)	900 - 900	COOL 940 - 940 HEAT 970 - 970
OUTDOOR UNIT	(r.p.m.)	770 - 800	COOL 770 - 800 HEAT 770 - 800

DIMENSIONS

INDOOR UNIT	H x W x D (mm)	248 x 808 x 170
OUTDOOR UNIT		535 x 650 x 250

WEIGHTS

INDOOR UNIT	GROSS / NET (kg)	10 / 7.5	10 / 7.5
OUTDOOR UNIT		27 / 24	28 / 25

NOISE LEVEL

INDOOR UNIT	HI-SPEED (dB)	37 - 37	COOL 37 - 37 HEAT 37 - 37
	MED-SPEED (dB)	35 - 35	COOL 35 - 35 HEAT 34 - 34
	LO-SPEED (dB)	33 - 33	COOL 33 - 33 HEAT 32 - 32
	SUPER QUIET (dB)	31 - 31	COOL 30 - 30 HEAT 30 - 30
OUTDOOR UNIT (dB)		42 - 43	COOL 42 - 43 HEAT 44 - 45

ADDITIONAL CHARGE OF REFRIGERANT

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
Additional refrigerant	None	50 g

Between 7.5 m and 10 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 10 m. If the units are further apart than this,
 correct operation can not be guaranteed.

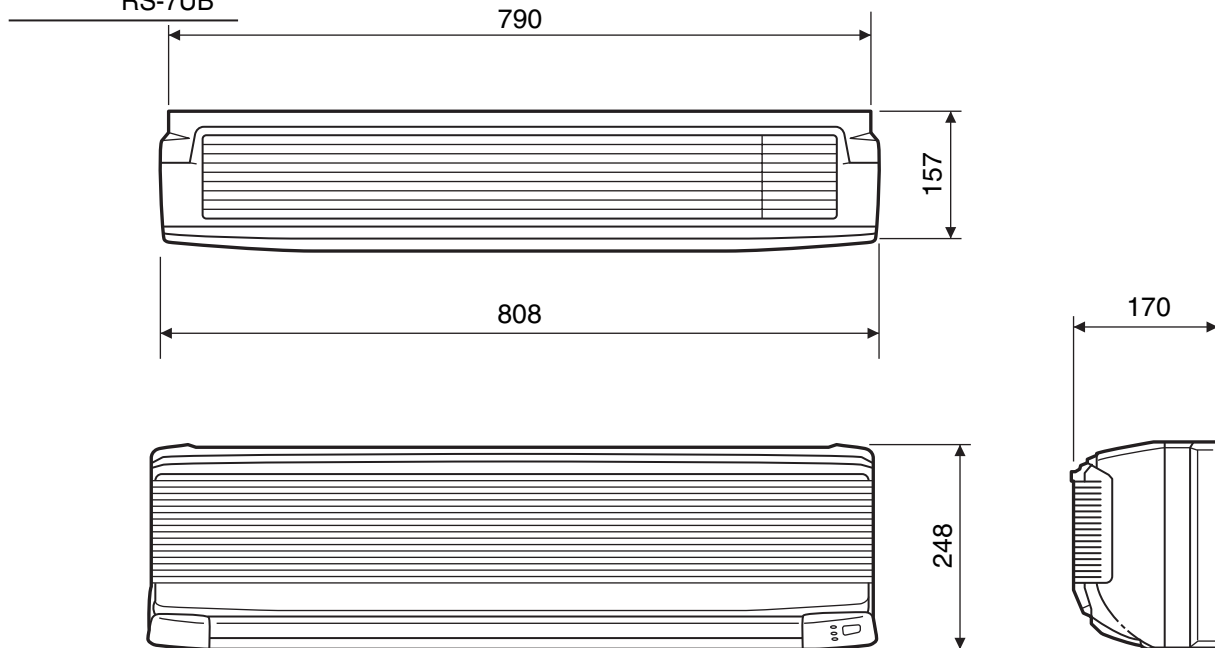
OUTLINE AND DIMENSIONS

INDOOR UNIT

Models : RS-7FB

RS-7UB

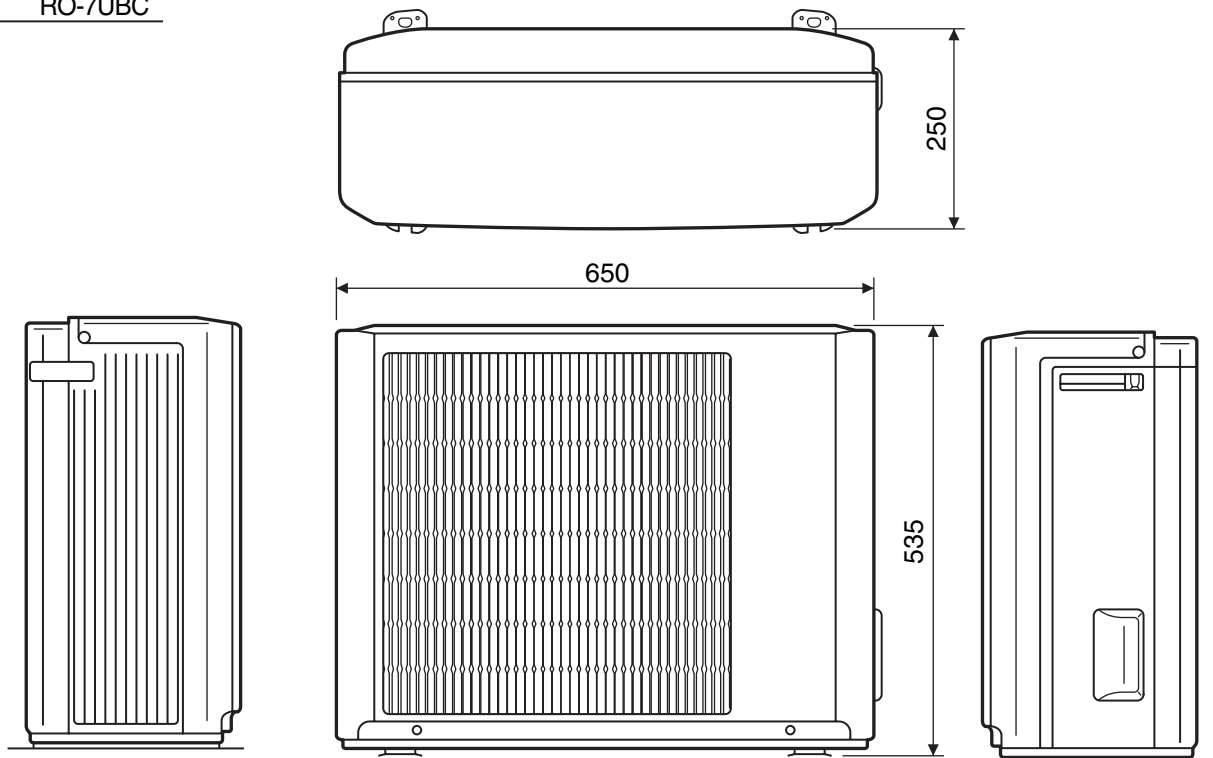
Unit : mm



OUTDOOR UNIT

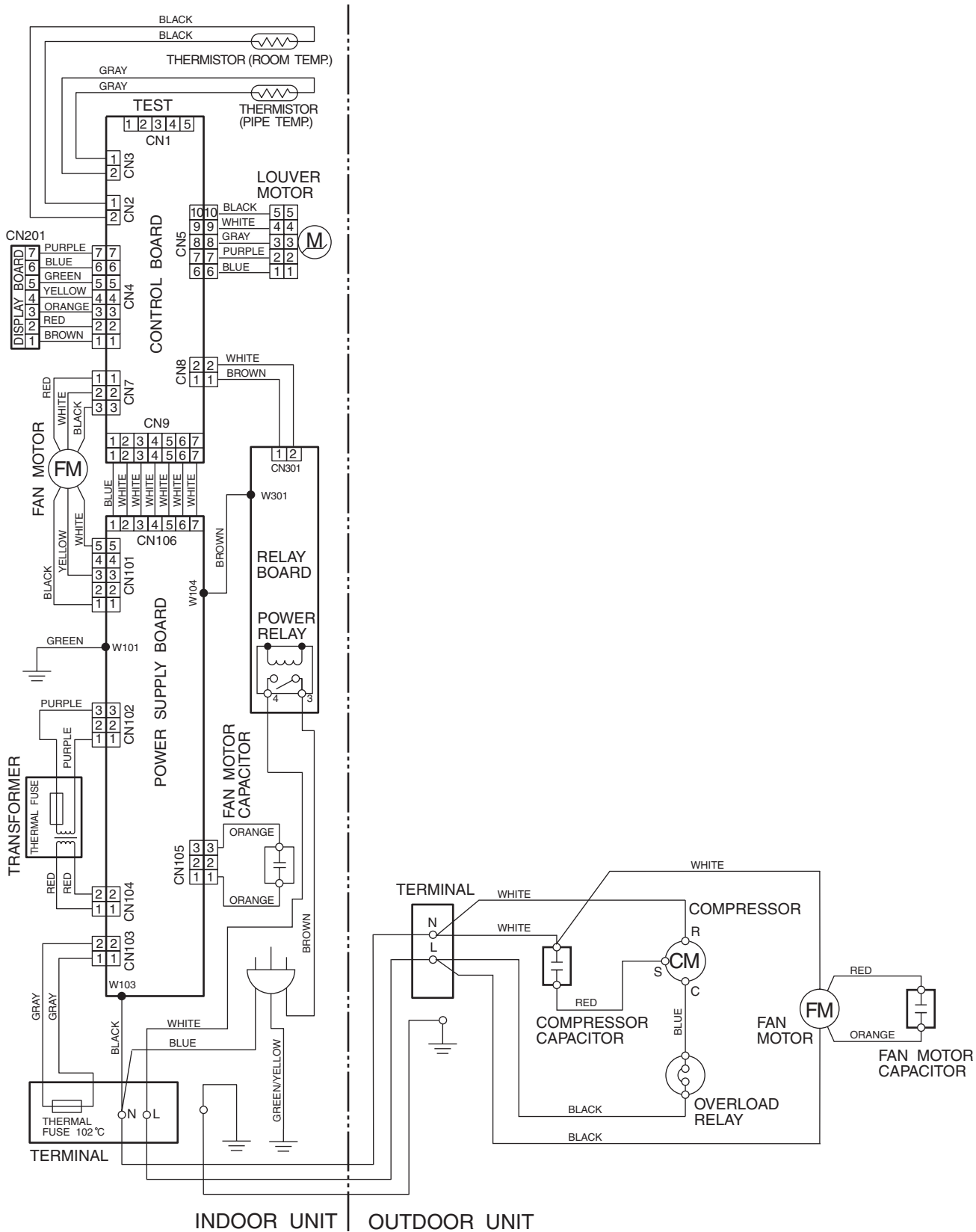
Model : RO-7FBC

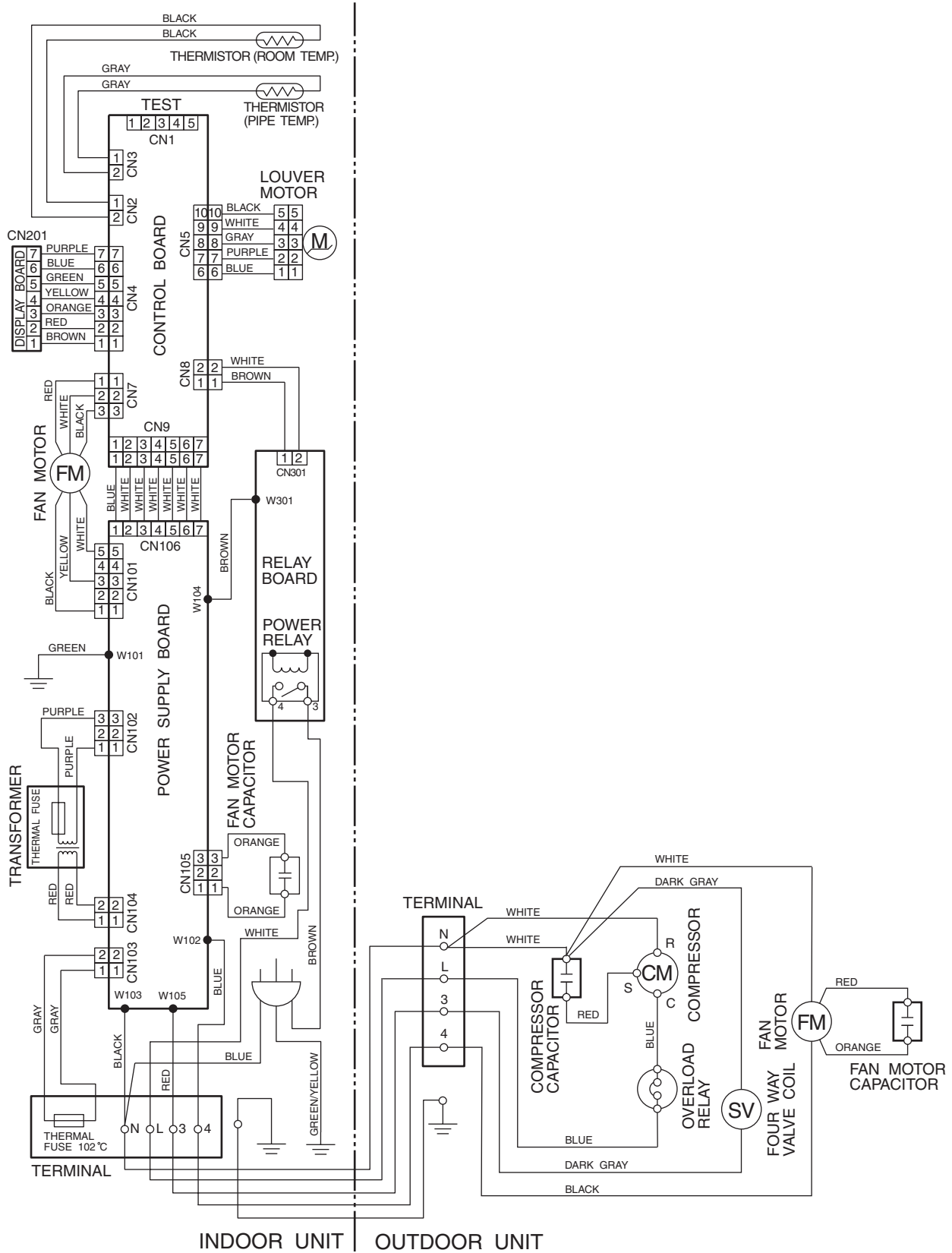
RO-7UBC



CIRCUIT DIAGRAM

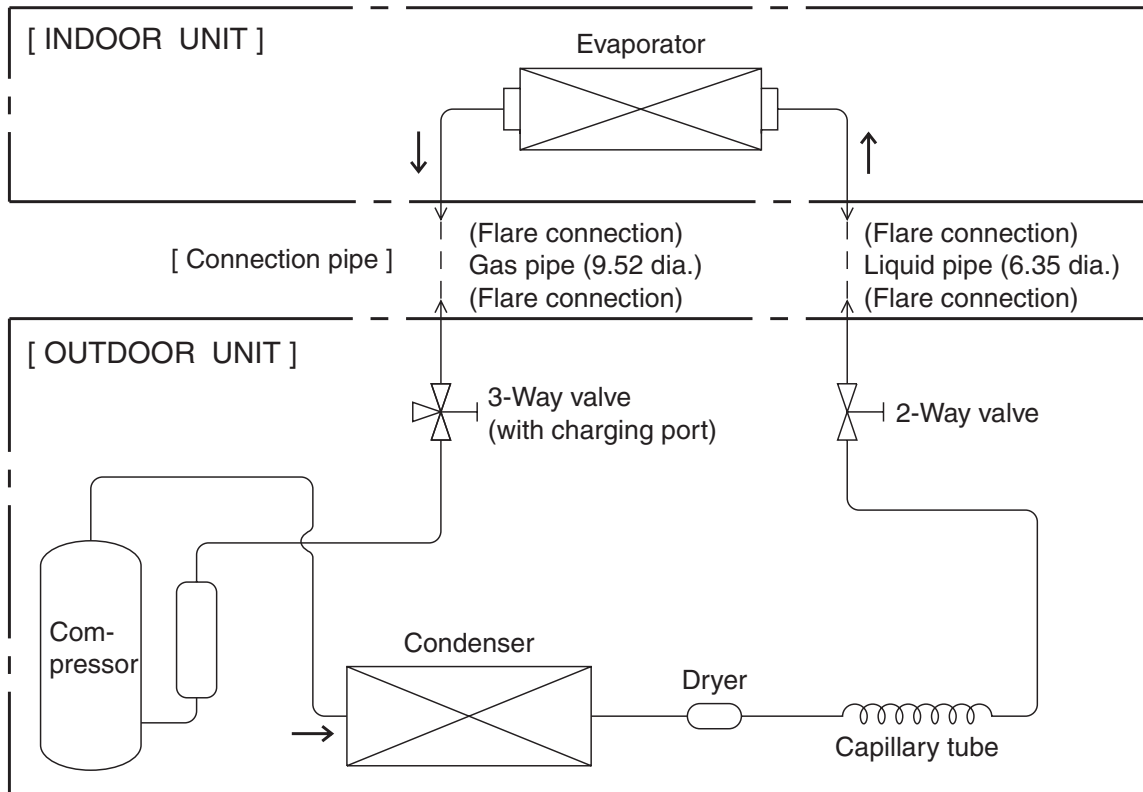
Models : RS-7FB
RO-7FBC



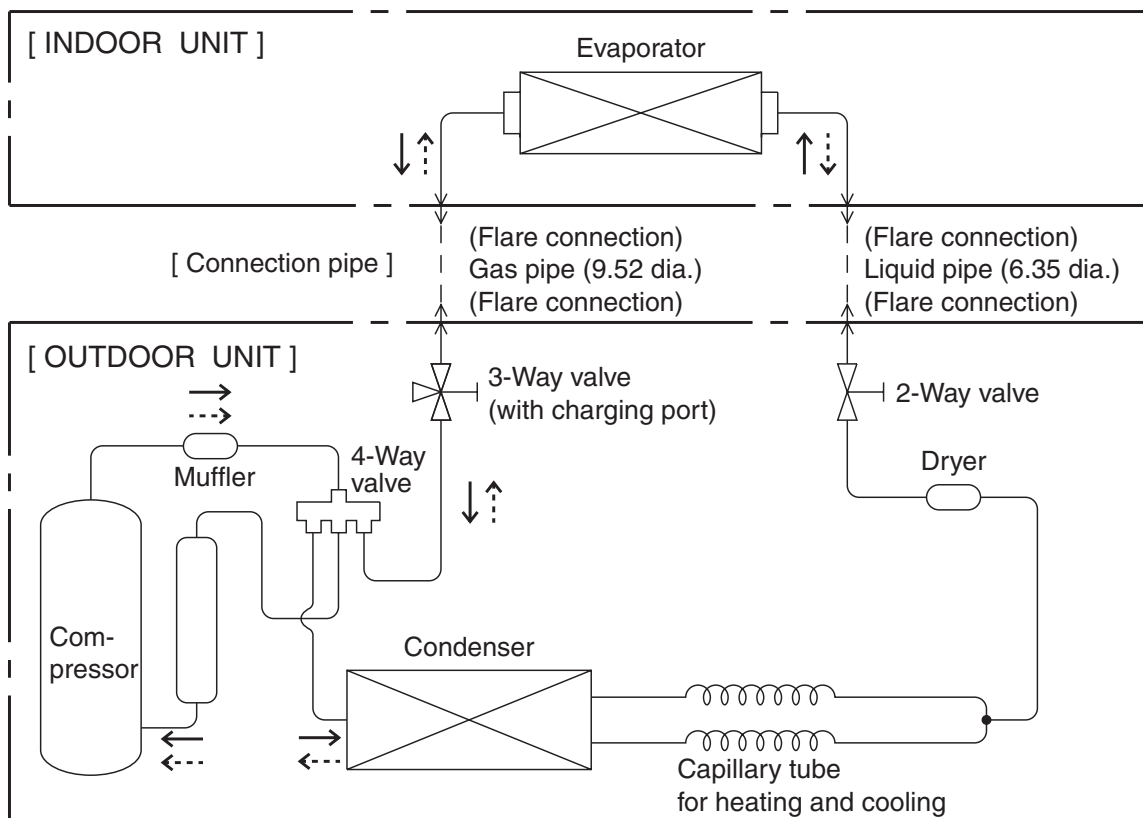


REFRIGERANT SYSTEM DIAGRAM

Models : RS-7FB
RO-7FBC

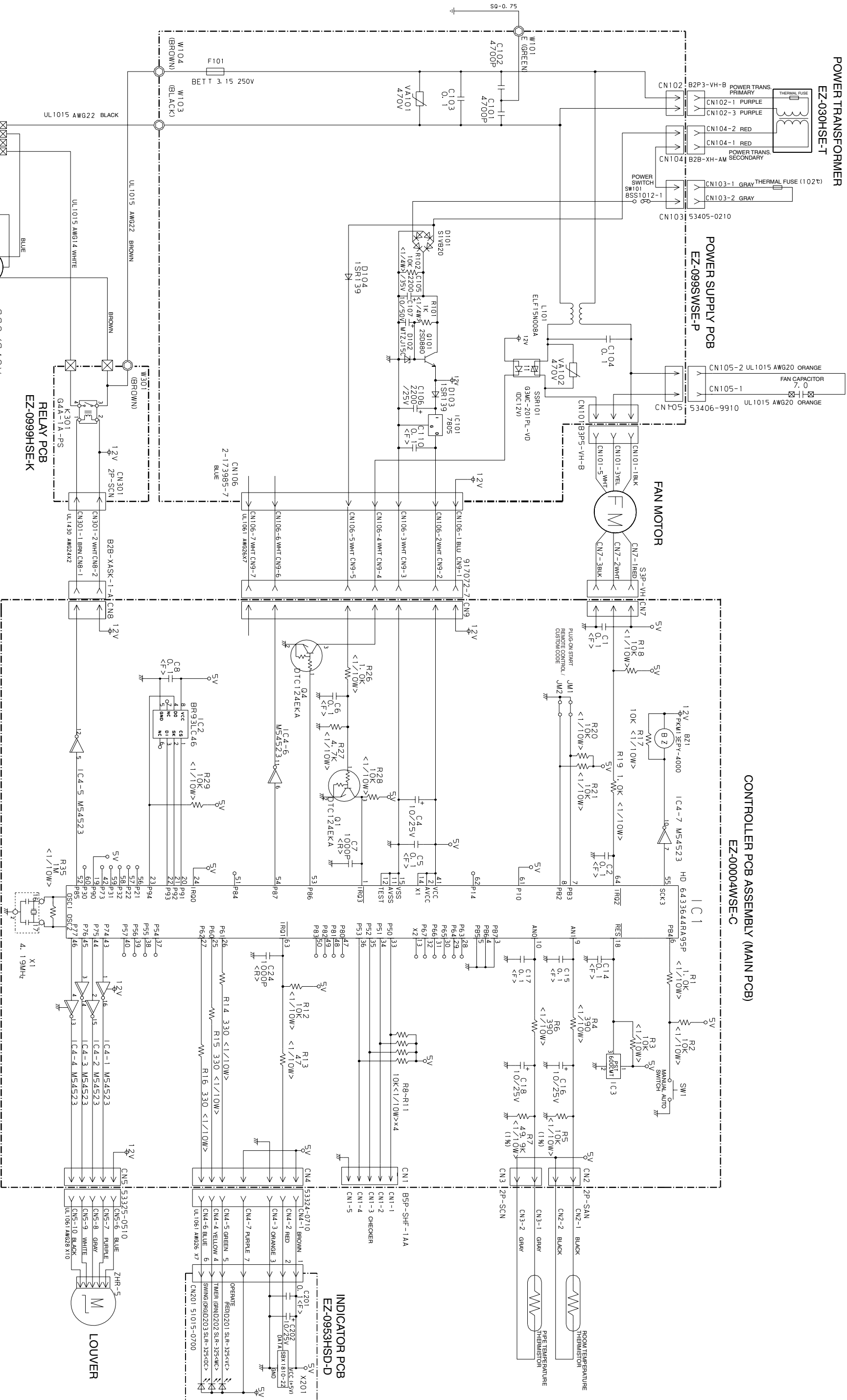


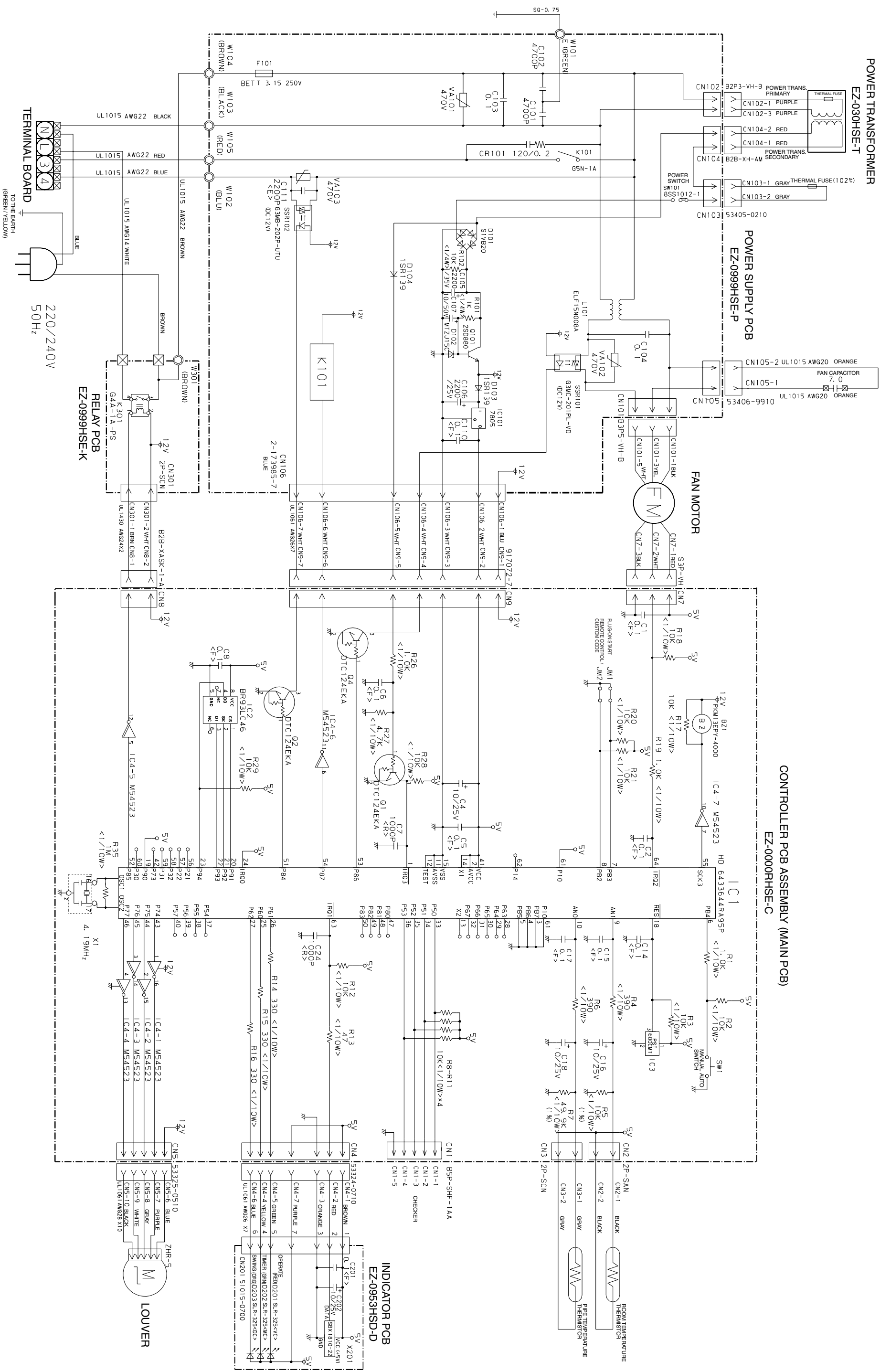
Models: RS-7UB
RO-7UBC



Cooling →
Heating ···→

INDOOR PRINTED CIRCUIT BOARD
CIRCUIT DIAGRAM





ERROR DISPLAY

Troubleshooting check table

Operation lamp : Red lamp
Timer lamp : Green lamp

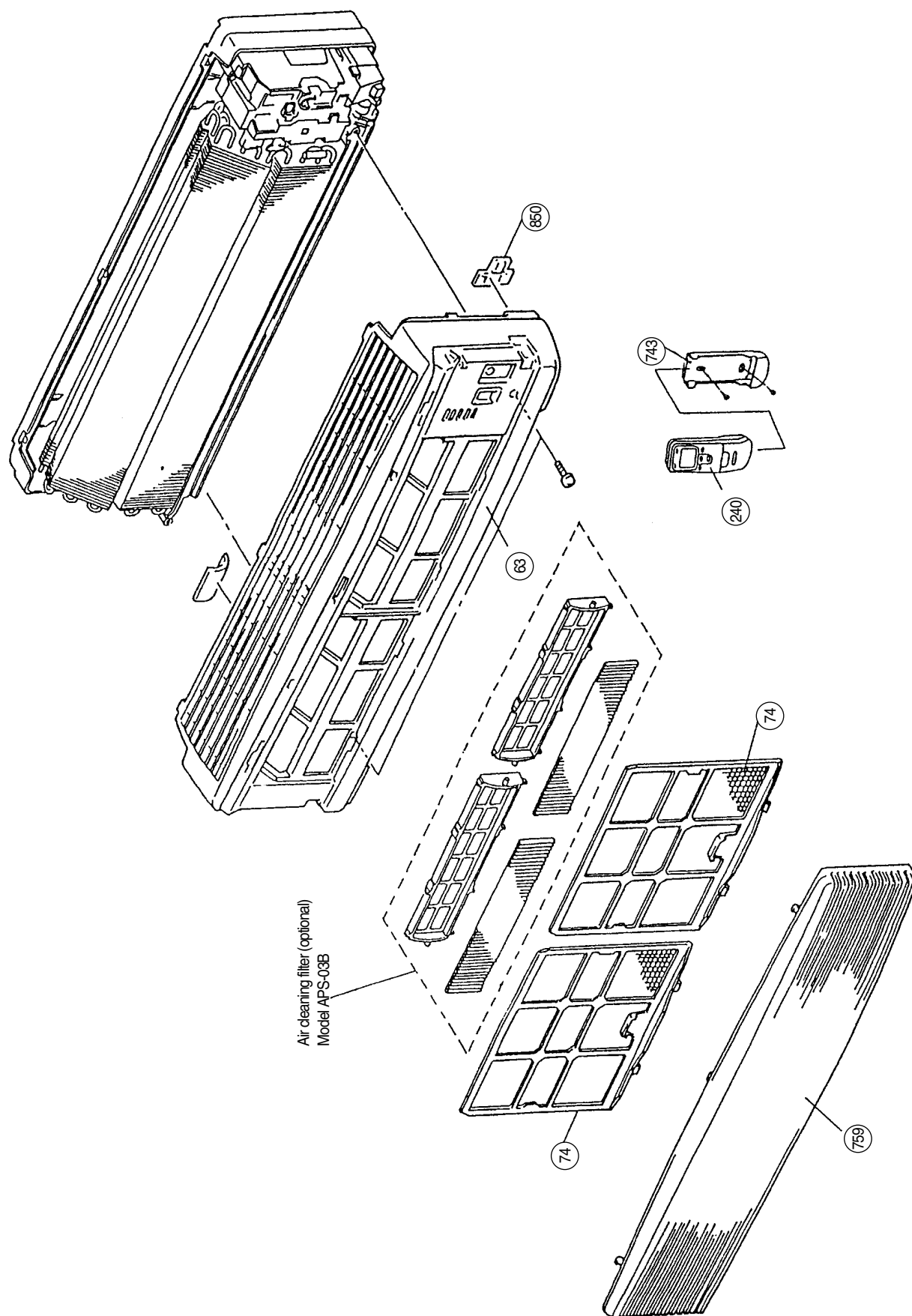
Large division indication			Small division indication		
Error contents	LED indication		Error contents	LED indication	
thermistor error	RED lamp Green lamp	● (2 times) ○	thermistor error (room temp.)	RED lamp Green lamp	○ ● (2 times)
			thermistor error (heat exchanger)	RED lamp Green lamp	○ ● (3 times)
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)

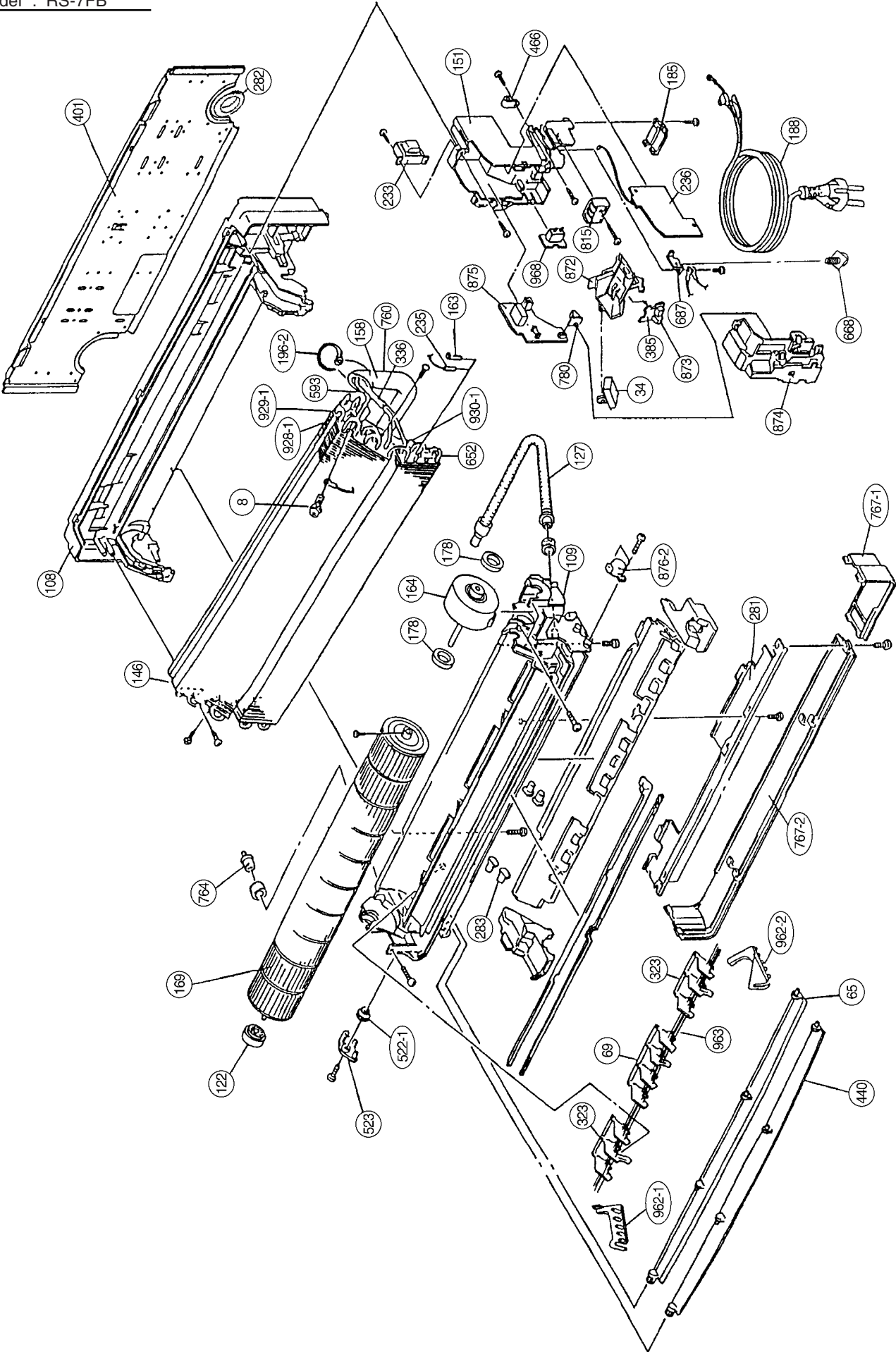
● : 0.5s ON/OFF repeated

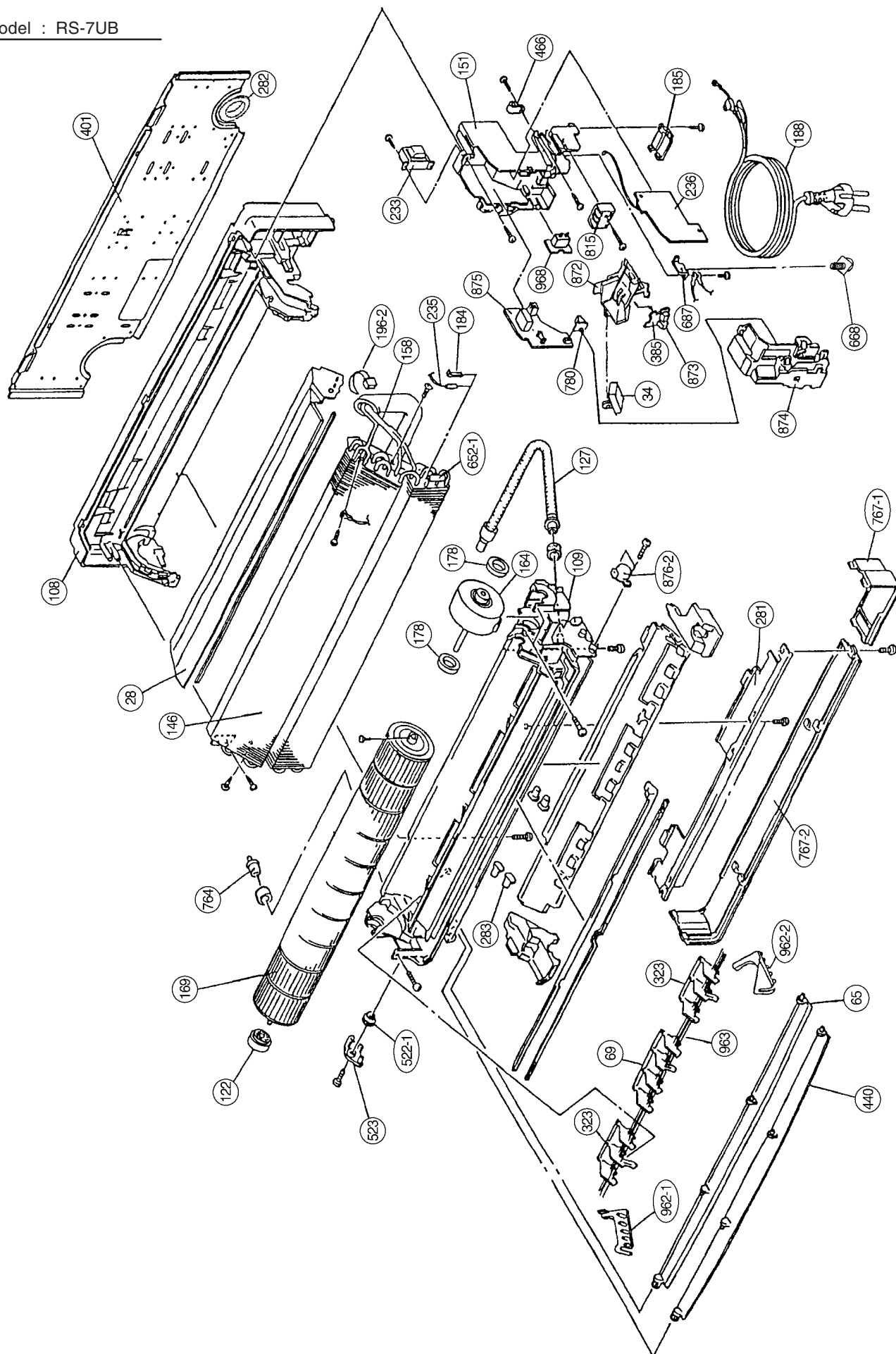
○ : 0.1s ON/OFF repeated

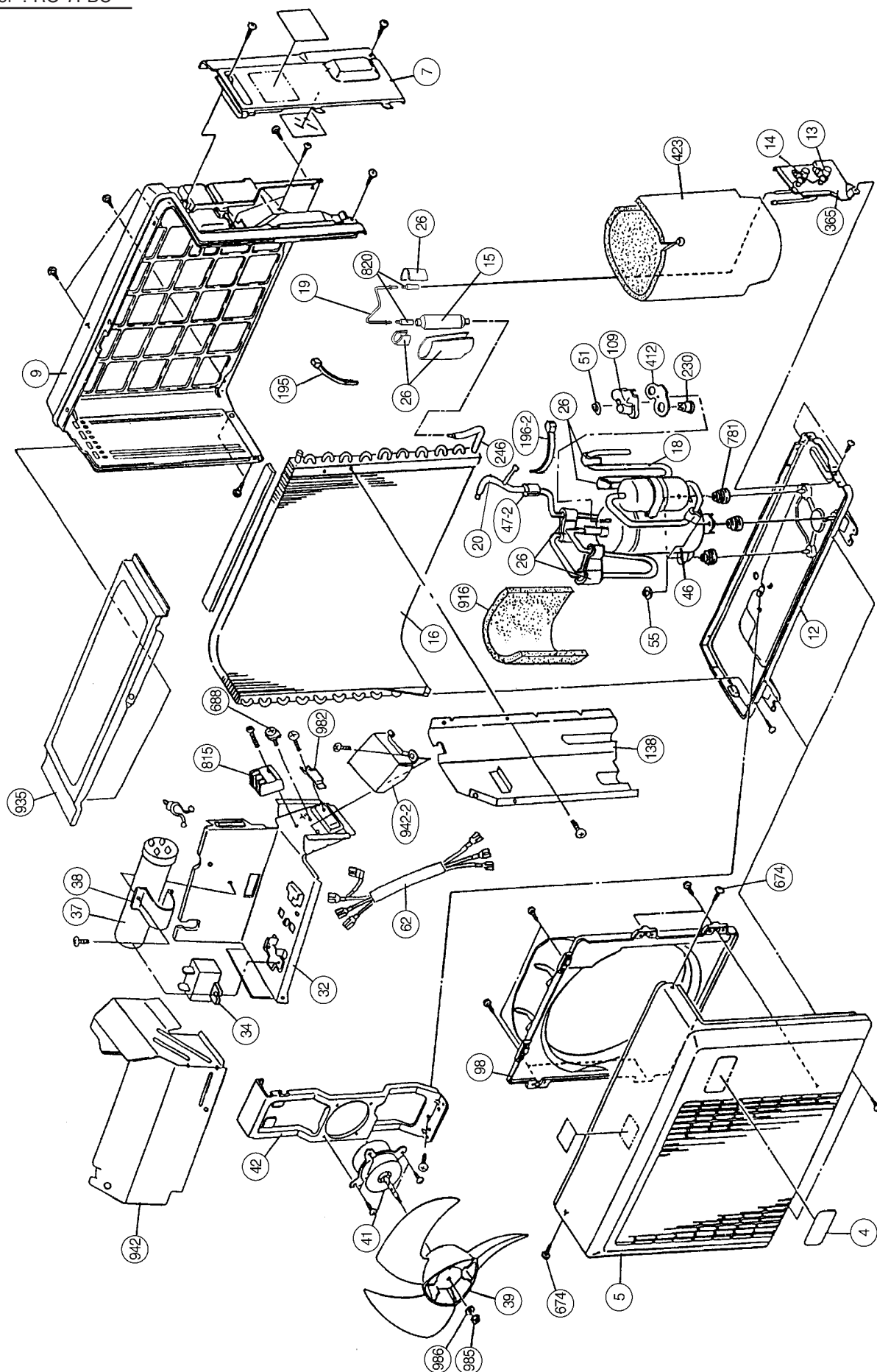
DISASSEMBLY ILLUSTRATION

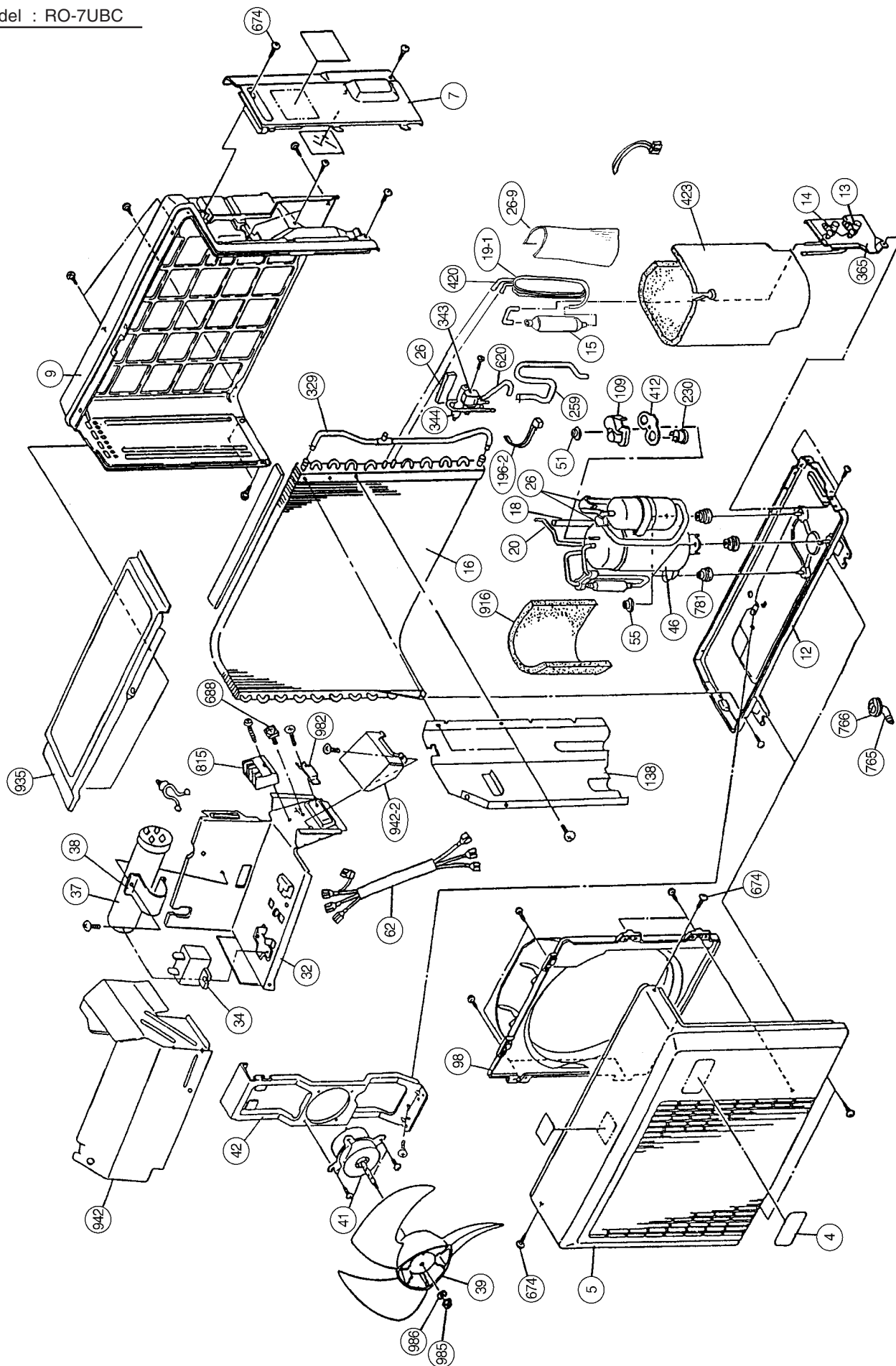
Models : RS-7FB
RS-7UB











PARTS LIST

When you order parts, please make a photocopy of this page and fill the number of the parts in the "Order" column.

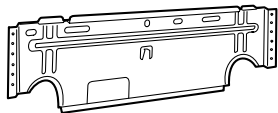
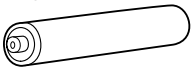
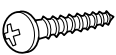
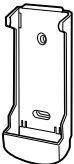
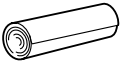
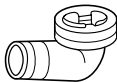
INDOOR UNIT

Ref. No.	Description	Part No.		Ord. Q'ty	Ref. No.	Description	Part No.		Ord. Q'ty
		RS-7FB	RS-7UB				RS-7FB	RS-7UB	
28	Blower Cover	—	9306462000		466	Clamp NK-4N	313714328805	313714328805	
34	Capacitor (Fan Motor)	9702105020	9702105020		522-1	Gear-A	9306062002	9306062002	
63	Front Panel Assy	9306268213	9306268213		523	Gear Bracket	9306407001	9306407001	
65	Flow Control Panel-Z	9306058012	9306058012		652-1	Thermistor Holder Pipe	313714262805	313714262805	
69	Louver-A	9306055028	9306055028		668	Screw w/Washer	313681304205	313681304205	
74	Filter	9305444014	9305444014		687	Earth Terminal	9306483005	9306483005	
108	Base	9309755017	9309755017		743	Remote Control Holder Case	9305642014	9305642014	
109	Casing	9306052027	9306052027		755-1	Casing Cover-L/R	9306064006	9306064006	
122	Shaft Holder-B	9303066010	9303066010		755-3	Casing Cover-F	9306066000	9306066000	
127	Drain Hose Assy	9305550029	9305550029		755-4	Casing Cover-B	9306121006	9306121006	
146	Evaporator Assy	9308555045	9308559029		755-5	Insulation (Casing)-U	9306215019	9306215019	
151	Control Box	9306763015	9306763015		759	Intake Grille	9306051013	9306051013	
158	Connecting Pipe Assy	9306416010	9306699000		764	Drain Cap Assy	9304150008	9304150008	
164	Fan Motor Assy-IN	9600917015	9600917015		767-1	Bottom Cover-A	9309756014	9309756014	
169	Cross-Flow Fan Assy	9307836015	9307836015		767-2	Bottom Cover-B	9309757011	9309757011	
178	Motor Cushion-B	9306274009	9306274009		780	Key Top (Slide Switch)	9303526002	9303526002	
184	Thermistor Spring	313104262701	313104262701		815	Terminal	9701955022	9701955039	
185	Wire Clamp	9305940004	9305940004		850	Window (Receiver)	9306059019	9306059019	
188	Power Cord Assy	9701758012	9701758012		872	Indicator Case	9306061005	9306061005	
196-2	Clamp SKB-150	313035356905	313035356905		873	Lamp Cover	9306060008	9306060008	
233	Power Transformer	9701803026	9701803026		874	Control Box Cover	9305977017	9305977017	
235	Thermistor Assy-Pipe	9702325015	9702325015		875	Power Supply PCB Assy	9703207020	9703207013	
236	Controller PCB Assy	9703213021	9703213014		876-2	Step Motor	9305892006	9305892006	
240	Remote Control Unit	9307113062	9307113079		928-1	U-Pipe (BB)-D7	9305747009	—	
281	Clamp Metal (Pipe)	9306063009	9306063009		929-1	U-Pipe (V)-D7	9305748006	—	
282	Wall Cap-B	313714296205	313714296205		930-1	U-Pipe (W)-D7	9305749003	—	
283	Bushing-A	9303529010	9303529010		962-1	Gurde Holder-L	9306678012	9306678012	
323	Louver-B	9306056025	9306056025		962-2	Gurde Holder-R	9306677015	9306677015	
385	Indicator PCB Assy	9701700011	9701700011		963	Fan Guard	9305751013	9305751013	
401	Wall Hook Bracket	9304358008	9304358008		964	Flare Nut-A	9307767005	9307767005	
440	Flow Control Panel-U	9306057015	9306057015		965	Flare Nut-B	9307768002	9307768002	
					968	Relay PCB Assy	9303209215	9303209215	

OUTDOOR UNIT

Ref. No.	Description	Part No.		Ord. Q'ty	Ref. No.	Description	Part No.		Ord. Q'ty
		RO-7FBC	RO-7UBC				RO-7FBC	RO-7UBC	
4	Emblem-Rear	9308892010	9308892010		195	Clamp SKB-100	313361275805	313361275805	
5	Cabinet Front Panel, Plastic	9306016012	9306016012		196-2	Clamp SKB-3MC	9305335008	———	
7	Connector Cover	9306018016	9306018016		196-2	Clamp SKB-150	———	313035356905	
9	Cabinet Rear Panel, Plastic	9306017019	9306017019		230	Overload Relay	9309070004	9309128002	
12	Base Assy, Painted	9304806042	9304806042		246	Outlet Pipe (Cond.)	9308669001	———	
13	3-Way Valve	9310088029	9310088029		259	Muffler-A D28.58	———	9305920006	
14	2-Way Valve	9310087022	9310087022		329	Coupling Pipe Assy	———	9308486011	
15	Dryer	9308440006	9308440006		343	Solenoid Coil	———	9307252013	
16	Condenser Assy	9309065017	9309104013		344	4-Way Valve	———	9308438003	
18	Suction Pipe	9306781019	9308976000		365	Bracket (Valve)	9306020040	9306020040	
19	Capillary Tube	9309068001	———		412	Terminal Gasket (For Comp.)	9351505011	9351505011	
19-1	Capillary Tube-A	———	9309027008		420	Capillary Assy	———	9309025004	
20	Discharge Pipe Assy	9308953001	9309214002		423	Noise Insulation-F	9306937010	9306937010	
26	BR Sheet 80 x 50 x T2	9305039180	———		620	Inlet Pipe	———	9308988003	
	BR Sheet 110 x 130 x T2	9305039197	———		674	Screw, SUS410T+5014	9307303012	9307303012	
	BR Sheet 30 x 120 x T7	9305039036	9305039036			Screw, Tapping SUS410T+4010	9306379001	9306379001	
	BR Sheet 30 x 120 x T3	9300389082	———			Screw, Tapping Coating SUS410T+4008	9304885009	9304885009	
26-9	BR Sheet 180x180x T2	———	9305039067		A	Screw (For Earth)	9357297002	9357297002	
32	Control Box Metal	9306475024	9306475024		688	Screw w/Washer	313681304205	313681304205	
34	Capacitor (Fan Motor)	9700467045	9700467045		765	Drain Pipe (L-type)	———	9301102000	
37	Capacitor (Running)	9351208011	9306512057		766	Drain Pipe Packing	———	9301143003	
38	Clamp Metal (Capacitor)	313468061808	313468061808		781	Rubber Cushion	9300293013	9300293013	
39	Propeller Fan	9306565015	9306565015		815	Terminal-2P	9306489014	———	
41	Fan Motor Assy-Out	9600164235	9600164235		815	Terminal-4P	———	9306488017	
42	Bracket (Motor)	9306021016	9306021016		820	Joint Pipe (Capillary)	9308667007	9308978004	
46	Compressor Assy	9309069008	9309127005		916	Noise Insulation-G	9309073005	9309073005	
47-2	Rubber (Discharge Pipe)	313185159802	———		935	Reinforcement Plate	9306473006	9306473006	
51	Special Nut M5	313199233602	313199233602		942	Control Box Cover Metal	9306476007	9306476007	
55	Special Nut M8	313252257701	313252257701		942-2	Control Box Cover-B Metal	9305975006	9305975006	
62	Wire Assy (Shield)-A	9305695027	9305791026		982	Cord Clamp, Plastic	9302271002	9302271002	
98	Fan Ring	9306019020	9306019020		985	Special Nut w/Washer	9304902003	9304902003	
109	Terminal Cover	9302419008	9302419008		986	Special Washer	9304903000	9304903000	
138	Separate Wall Metal	9306474003	9306474003						

STANDARD ACCESSORIES

Name and Shape	Part No.	
	RS-7FB	RS-7UB
Wall hook bracket 	9304358008	9304358008
Remote control unit 	9307113062	9307113079
Battery (penlight) 	0600185534	0600185534
Cable mark 	_____	9301385007
Tapping screw (big) (φ4 x 20) 	301141164200	301141164200
Tapping screw (small) (φ3 x 12) 	0700019036	0700019036
Remote control unit holder 	9305642014	9305642014
Cloth tape 	9308117007	9308117007
Hexagon wrench 	9351228019	9351228019
Drain pipe (Including drain packing) 	_____	9303029015



MANUFACTURER :

Fuji Denki Sosetsu Co., Ltd.

Tokyo, Japan