



**SPLIT TYPE
AIR CONDITIONER**

CASSETTE type (60Hz)

SERVICE MANUAL

Models	Indoor unit	Outdoor unit
	RC-25SB	RO-25SB
	RC-25RSB	RO-25RSC

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

TYPE		COOLING	COOLING & HEATING
MODEL	IN	RC-25SB	RC-25RSB
	OUT	RO-25SB	RO-25RSC
COOLING CAPACITY	(kW)	6.30	5.80
HEATING CAPACITY	(kW)	—	7.60

ELECTRICAL DATA

POWER SOURCE	(V)	220	
	(Hz)	60	
RUNNING CURRENT (A)	COOL	14.0	13.5
	HEAT	—	10.5
INPUT WATTS (kW)	COOL	3.05	2.90
	HEAT	—	2.25
E.E.R. (kW/kW)	COOL	2.07	2.00
	HEAT	—	3.38
STARTING CURRENT	(A)	61	
MOISTURE REMOVAL	(ℓ/h)	1.1	

COMPRESSOR

TYPE		Hermetic type, 2 pole, Single phase, Induction motor, Rotary	
CODE		2JS350H5BA02	
REFRIGERANT	R-22 (g)	2,000	2,250

FAN SPEED (r.p.m.)	INDOOR	HIGH	490	
		MED	430	
		LOW	360	
	OUTDOOR		720	
AIR FLOW (m³/h)	INDOOR		1,100	
	OUTDOOR		3,000	
DIMENSIONS H x W x D (mm)		IN	246 x 830 x 830	
		GRILLE	35 x 940 x 940	
		OUT	650 x 830 x 320	
WEIGHT [NET/GROSS] (kg)		IN	34 / 44	
		OUT	59 / 63	60 / 64
MAX PIPE LENGTH/HEIGHT (m)		25 / 15		
REMOTE CONTROLLER TYPE		WIRED		

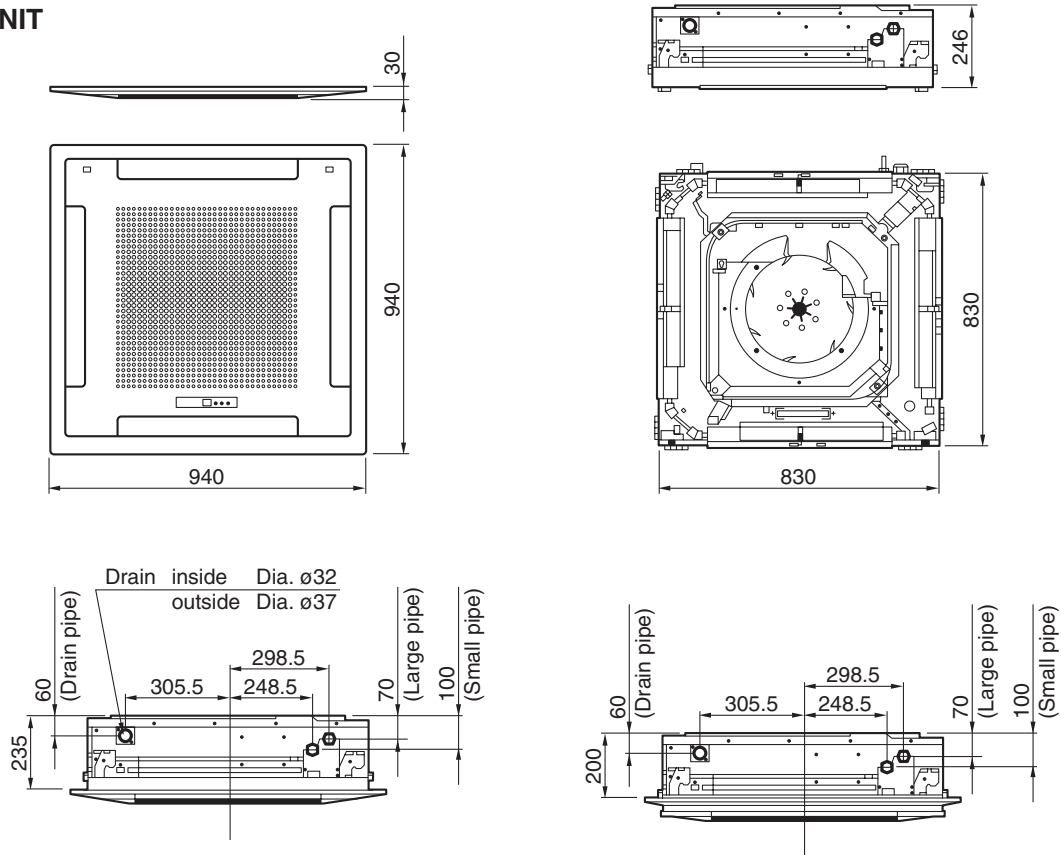
REFRIGERANT CHARGE (R-22)

PIPE LENGTH		7.5 m (25 ft)	10 m (33 ft)	15 m (49 ft)	20 m (66 ft)	25 m (82 ft)	Additional refrigerant
MODELS	RC-25SB	2,000 g (70.5 oz)	2,050 g (72.3 oz)	2,150 g (75.8 oz)	2,250 g (79.4 oz)	2,350 g (82.9 oz)	20 g (0.70 oz) / 3.3 ft (1 m) (over 7.5 m)
	RC-25RSB	2,250 g (79.4 oz)	2,350 g (82.9 oz)	2,550 g (89.9 oz)	2,750 g (97.0 oz)	2,950 g (104.1 oz)	40 g (1.40 oz) / 3.3 ft (1 m) (over 7.5 m)

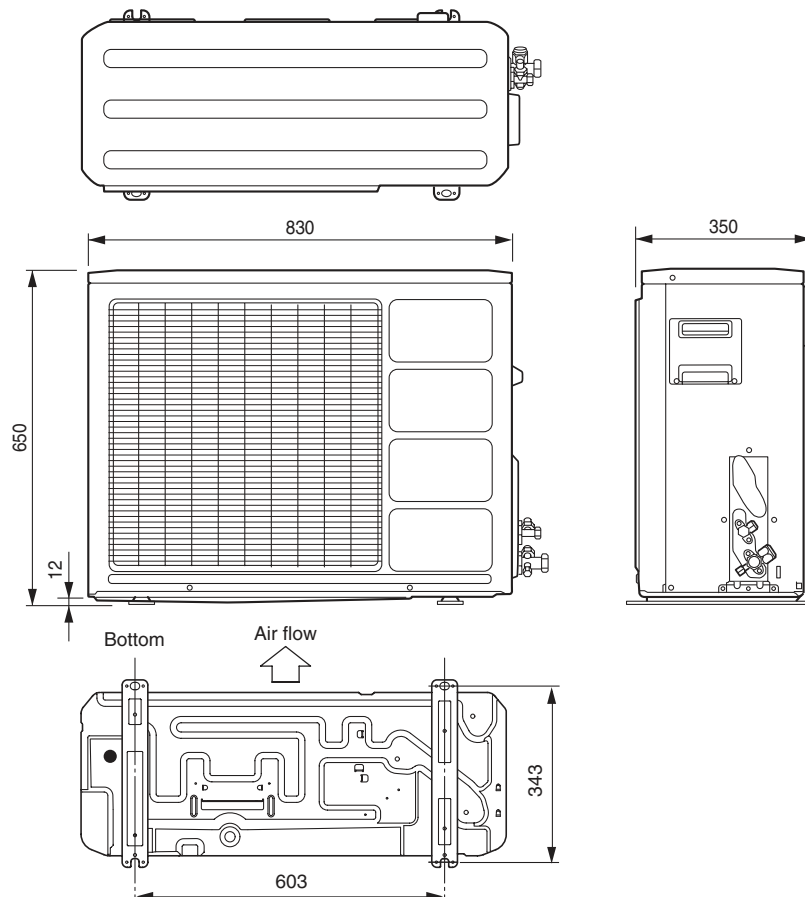
OUTLINE AND DIMENSIONS

INDOOR UNIT

Unit : (mm)

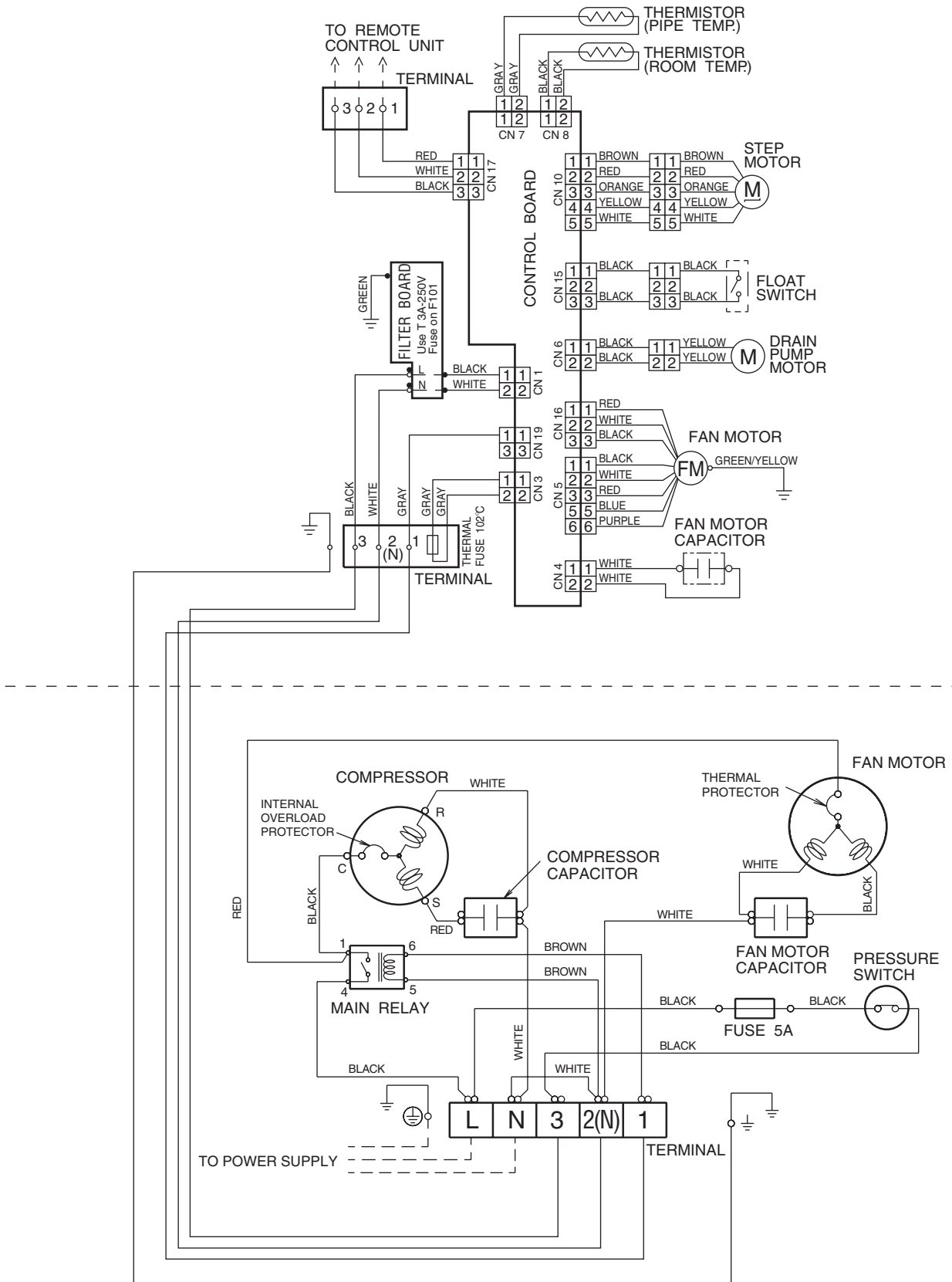


OUTDOOR UNIT

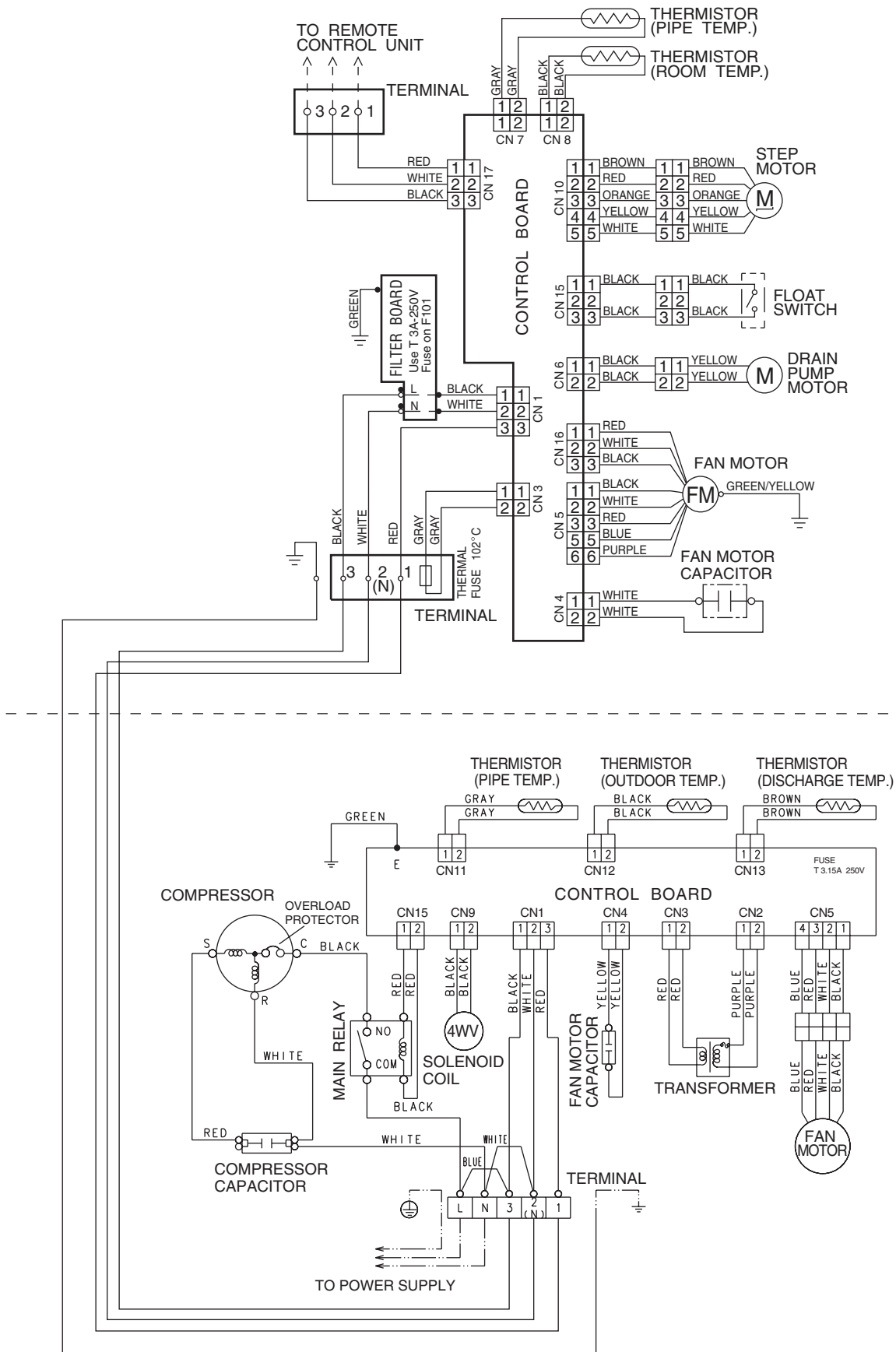


CIRCUIT DIAGRAM

Models : RC-25SB / RO-25SB



Models : RC-25RSB / RO-25RSC



ERROR CONTENTS

1. INDOOR UNIT

- When EE : EE blinks at the current time display, there is an error inside the air conditioner. If the SET TIME button (▼) and TEMP./DAY button (▼) are pressed simultaneously for more than three seconds, the self diagnosis check will start and the error contents will be displayed at the current time display. When the operation lamp lights, press the START/STOP button and after the operation lamp goes off, perform the same operation. Process the error contents by referring to (Table 1).

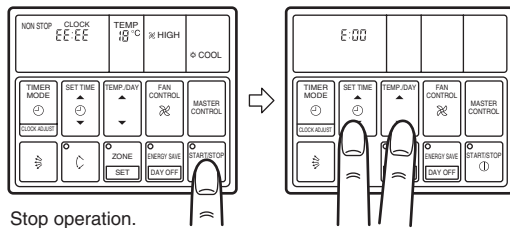


Table 1

Error code	Error contents
E:00	Communication error (indoor unit ↔ remote controller)
E:01	Communication error (indoor unit ↔ outdoor unit)
E:02	Room temperature sensor open
E:03	Room temperature sensor short-circuited
E:04	Indoor heat exchanger temperature sensor open
E:05	Indoor heat exchanger temperature sensor short-circuited
E:06	Outdoor heat exchanger temperature sensor open
E:07	Outdoor heat exchanger temperature sensor short-circuited
E:08	Power source connection error
E:09	Float switch operated
E:0A	Outdoor temperature sensor open
E:0B	Outdoor temperature sensor short-circuited
E:0C	Discharge pipe temperature sensor open
E:0d	Discharge pipe temperature sensor short-circuited
E:0E	Outdoor high pressure abnormal
E:0F	Discharge pipe temperature abnormal
E:11	Model abnormal
E:12	Indoor fan abnormal
E:13	Outdoor signal abnormal
E:14	Outdoor EEPROM abnormal

2. OUTDOOR UNIT

When the outdoor temperature drops, the outdoor unit's fans may switch to low speed.

ERROR : Heat & Cool model (Reverse cycle) only

The LED lamps operate as follows (Table 2) according to the error contents.

The LED lamps are on the outdoor unit board.

Table 2

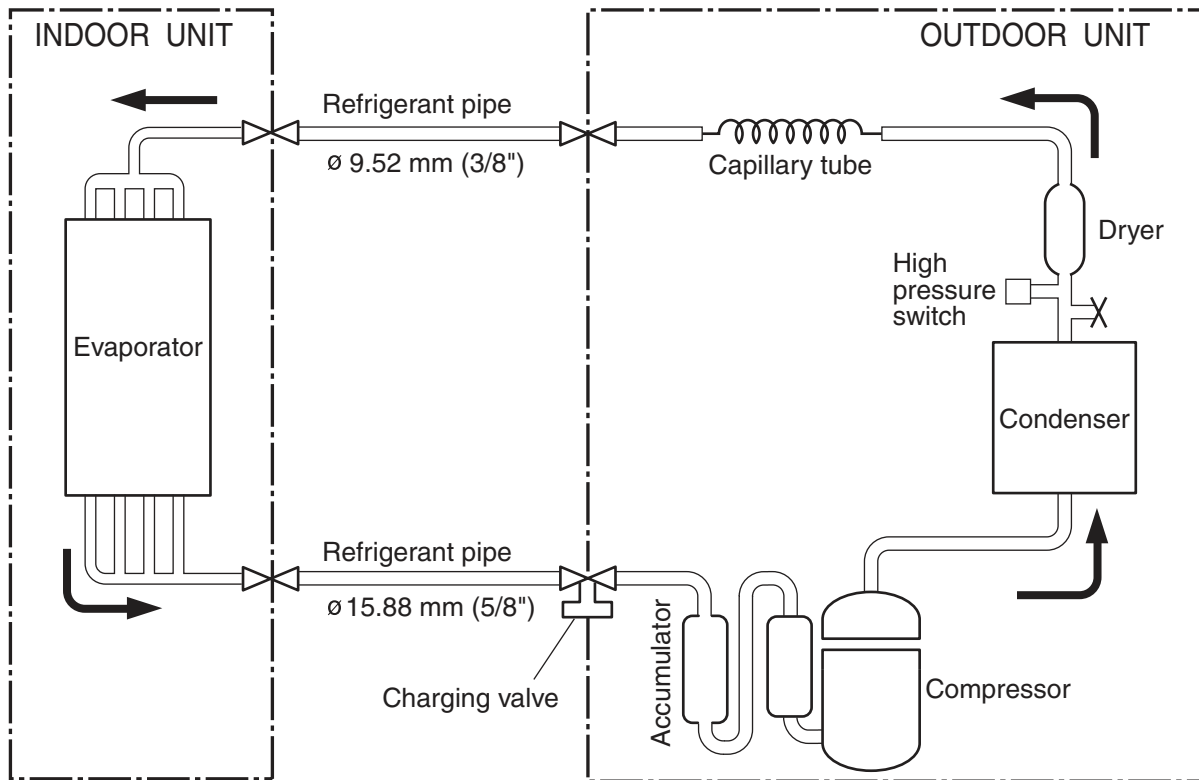
Error display		Error contents
LED 1	LED 2	
ON: 0.1 sec. OFF: 0.1 sec. Quick flash continued	ON: 0.1 sec. OFF: 0.1 sec. Quick flash continued	Model abnormal or EEPROM abnormal
ON: 0.5 sec. OFF: 2 sec. 1 quick flash repeated	ON: Continuous OFF: Continuous Lighting continued	Power source connection error
ON: 0.5 sec. OFF: 2 sec. 2 quick flashes repeated	ON: Continuous OFF: Continuous Lighting continued	Discharge temperature sensor error
ON: 0.5 sec. OFF: 2 sec. 3 quick flashes repeated	ON: Continuous OFF: Continuous Lighting continued	Outdoor heat exchanger temperature sensor error
4 quick flashes repeated	Lighting continued	Outdoor temperature sensor error
5 quick flashes repeated	Lighting continued	Communication signal error
6 quick flashes repeated	Lighting continued	Indoor unit error
7 quick flashes repeated	Lighting continued	Discharge temperature abnormal
8 quick flashes repeated	Lighting continued	High pressure abnormal

When the fault is cleared, the LED lamp goes off.

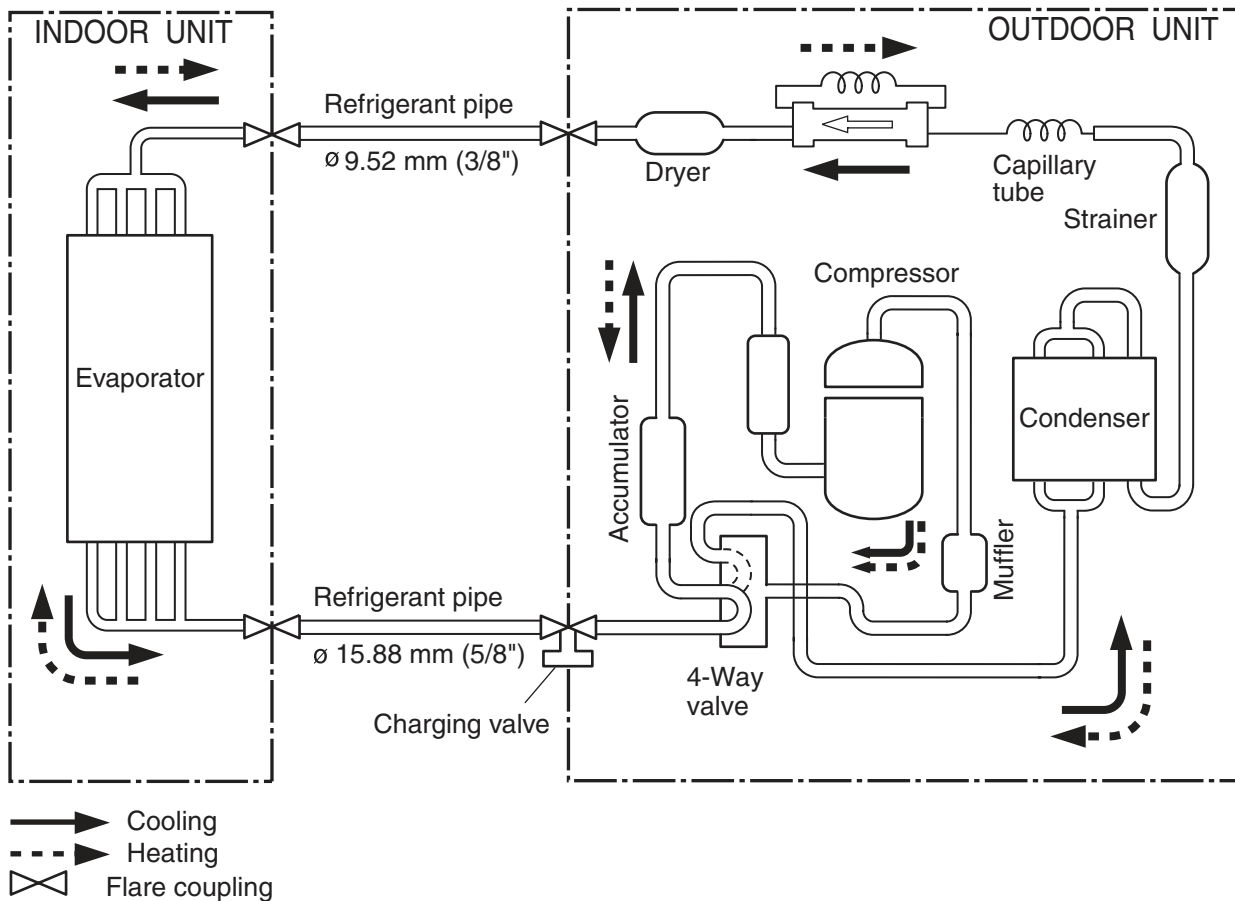
However, for discharge pipe temperature abnormal and high pressure abnormal, the LED lamp lights continuously for 24 hours, as long as the power is not turned off.

REFRIGERANT SYSTEM DIAGRAM

Models : RC-25SB / RO-25SB



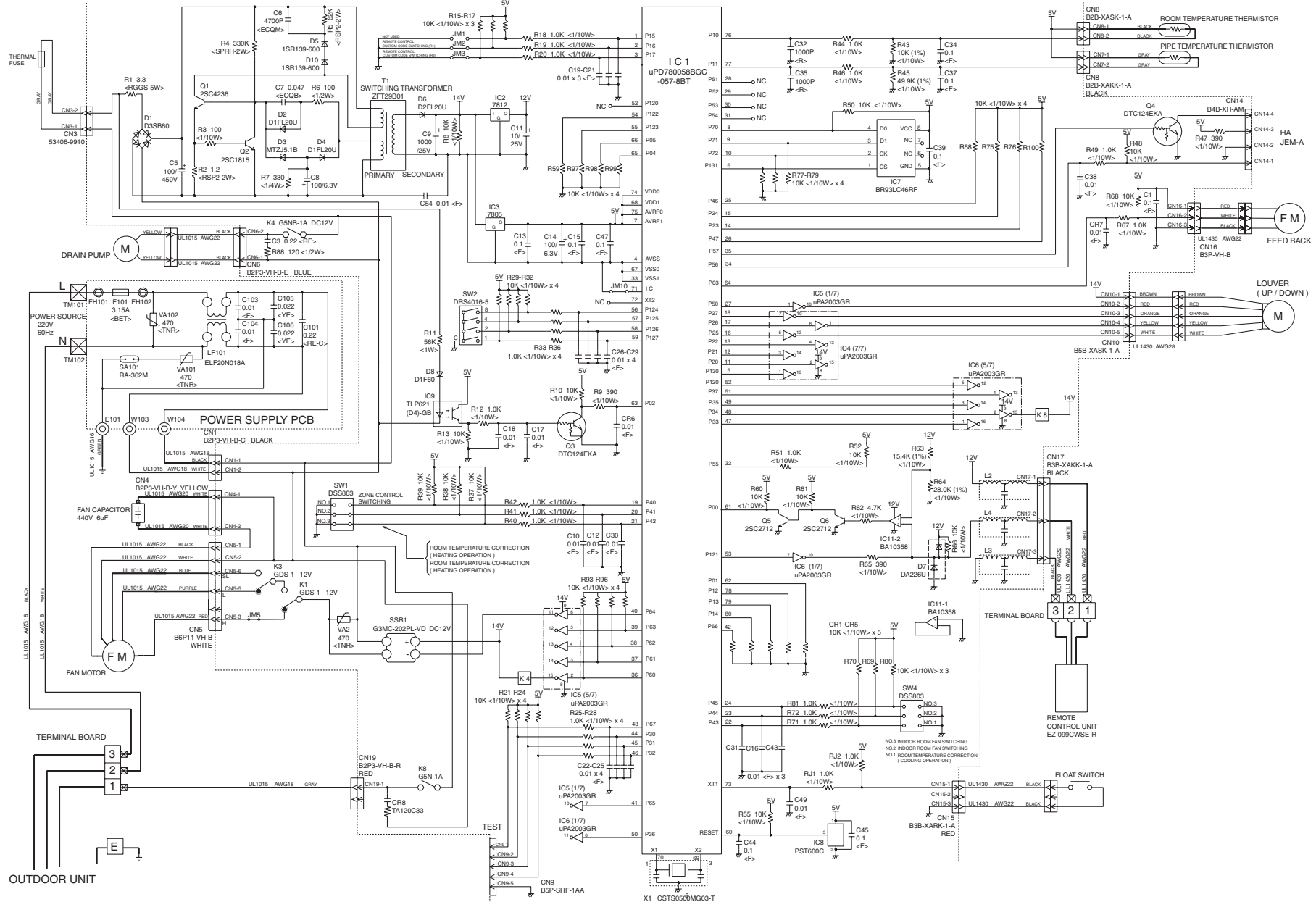
Models : RC-25RSB / RO-25RSC



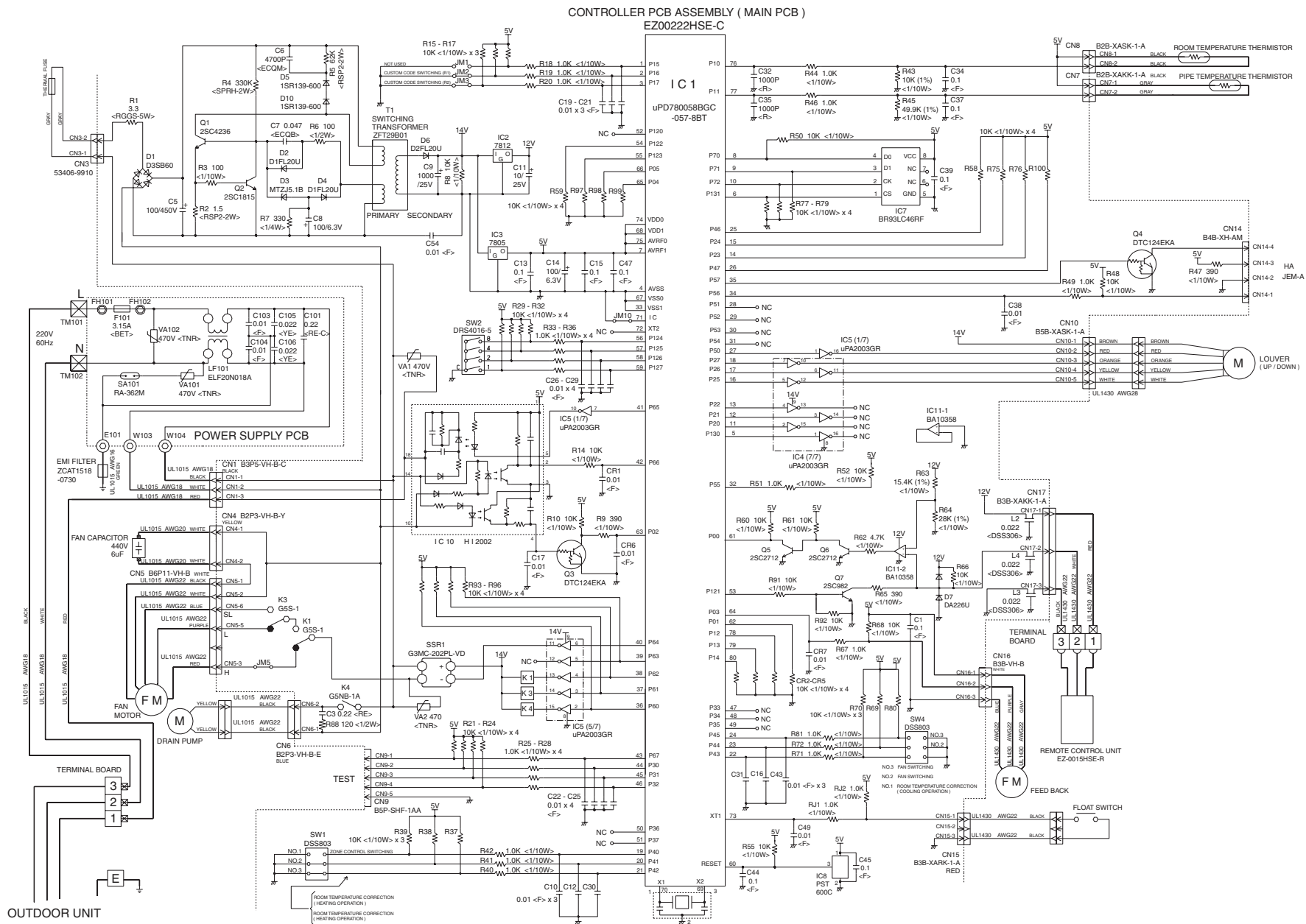
INDOOR PRINTED CIRCUIT BOARD CIRCUIT DIAGRAM

Model : RC-25SB

CONTROLLER PCB ASSEMBLY (MAIN PCB)
EZ-0033WSE-C



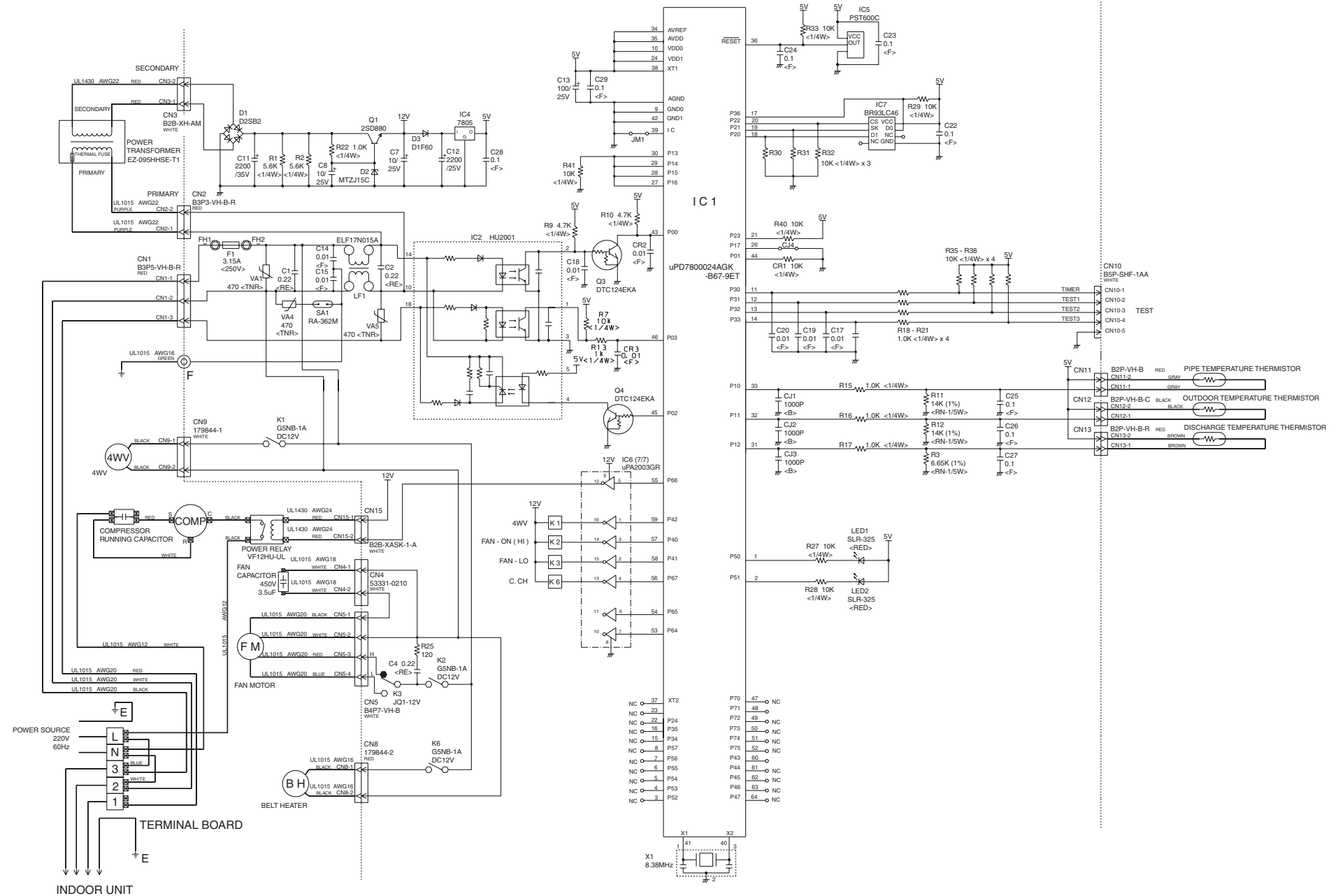
Model : RC-25RSB



OUTDOOR PRINTED CIRCUIT BOARD CIRCUIT DIAGRAM

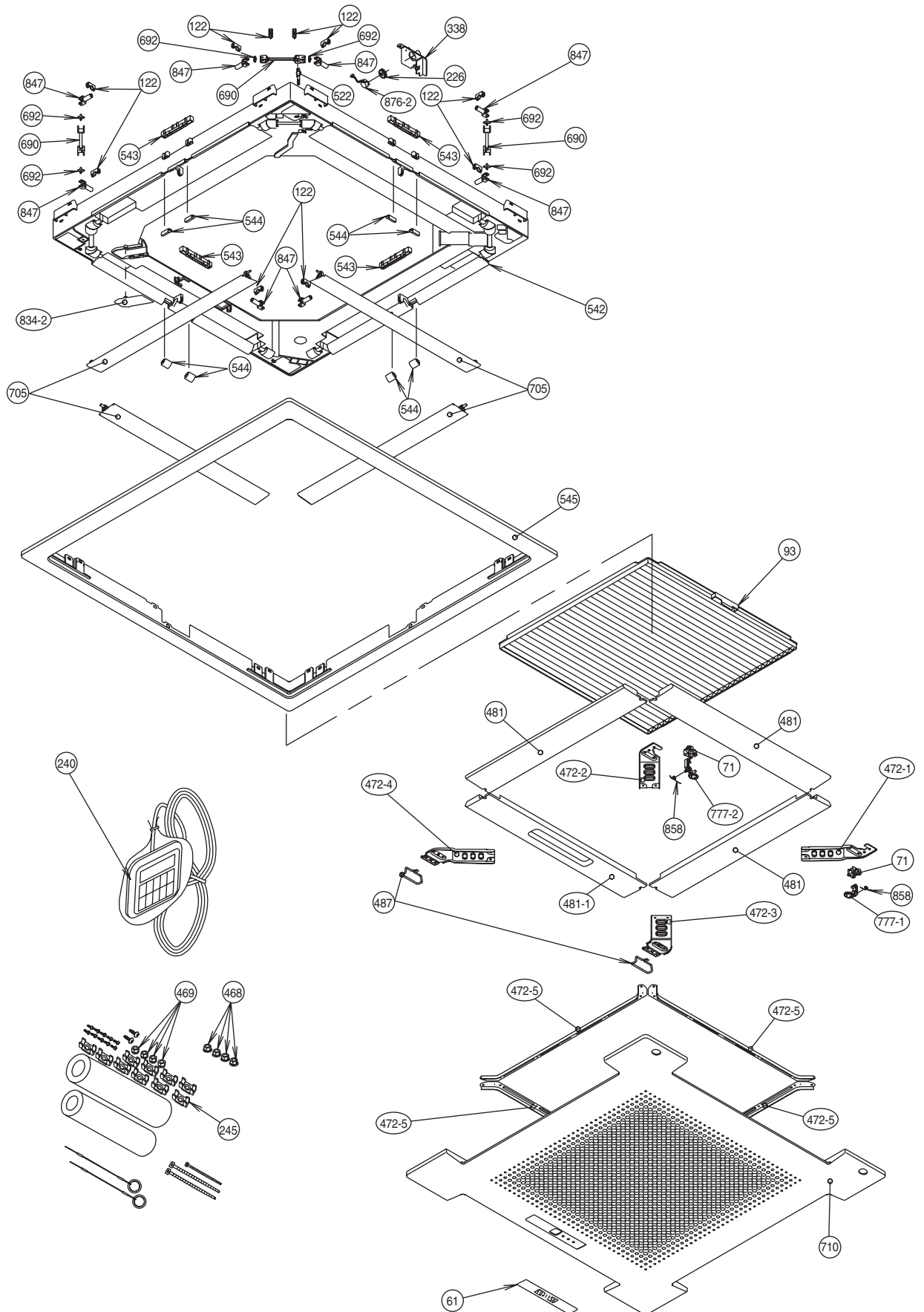
Model : RO-25RSC

CONTROLLER PCB ASSEMBLY (MAIN PCB)
EZ-002SHUE-C

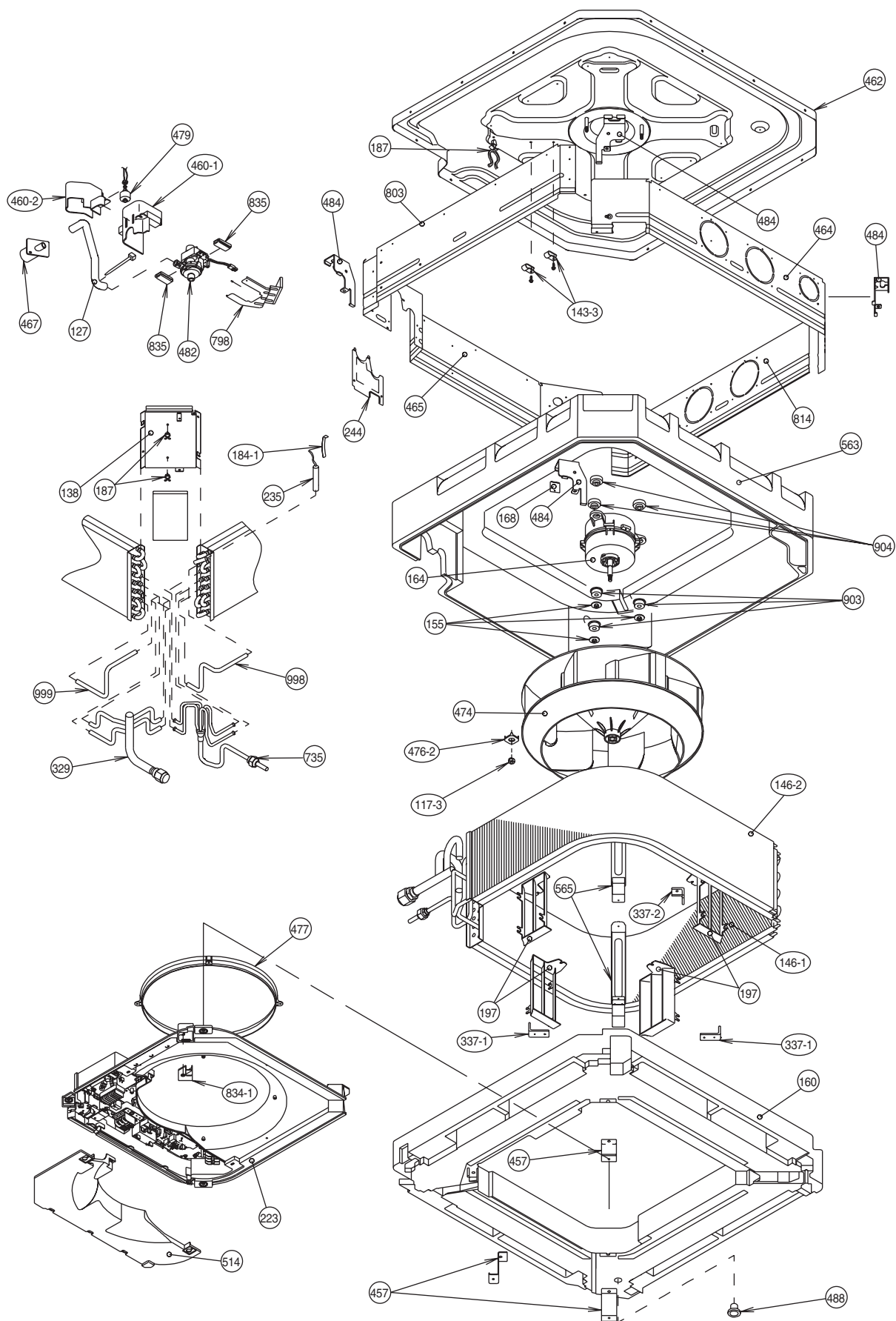


DISASSEMBLY ILLUSTRATION

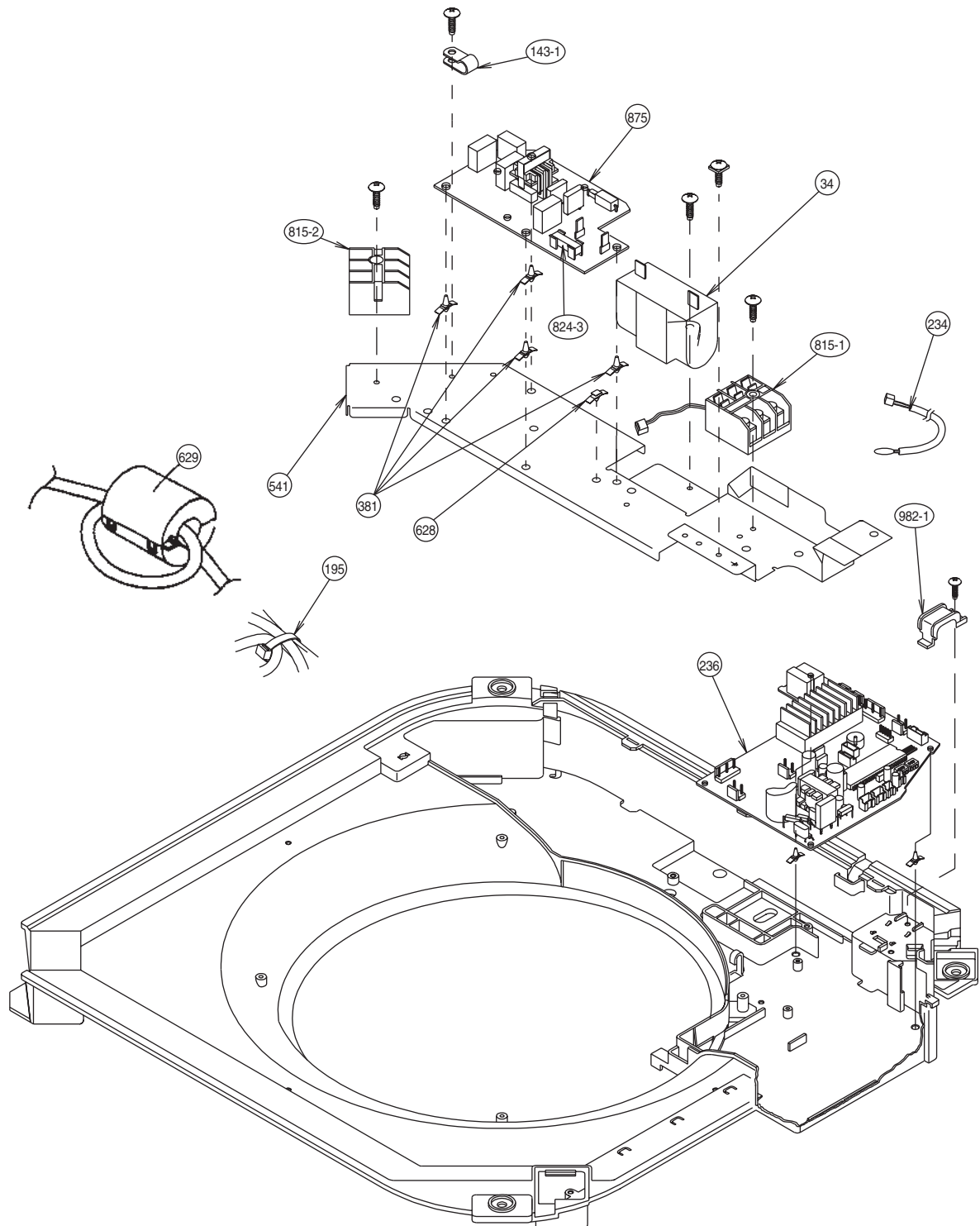
Models : RC-25SB
RC-25RSB

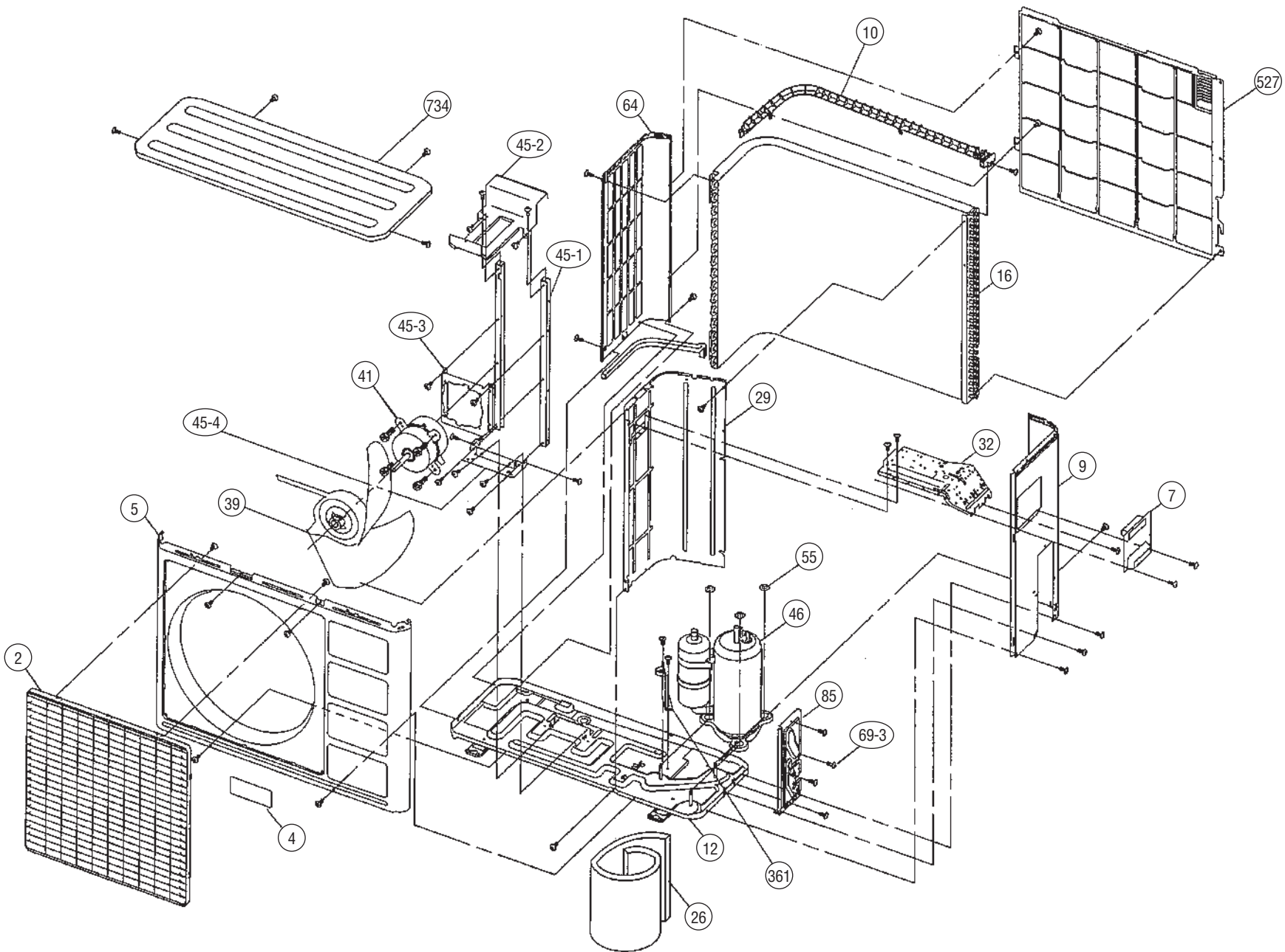


Models : RC-25SB
RC-25RSB

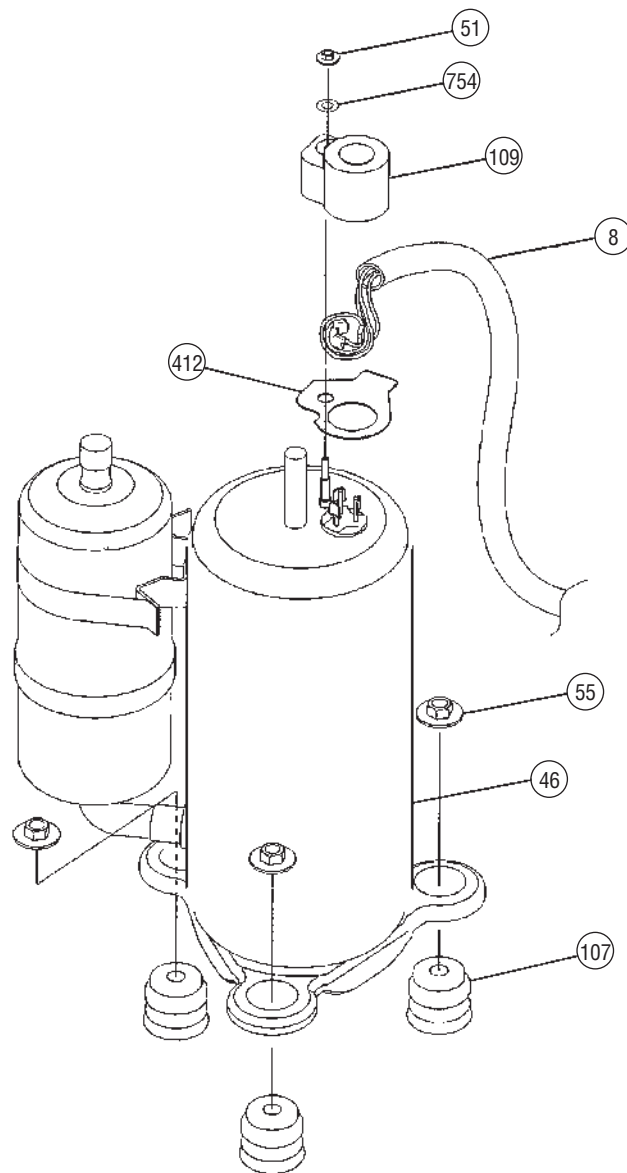


Models : RC-25SB
RC-25RSB

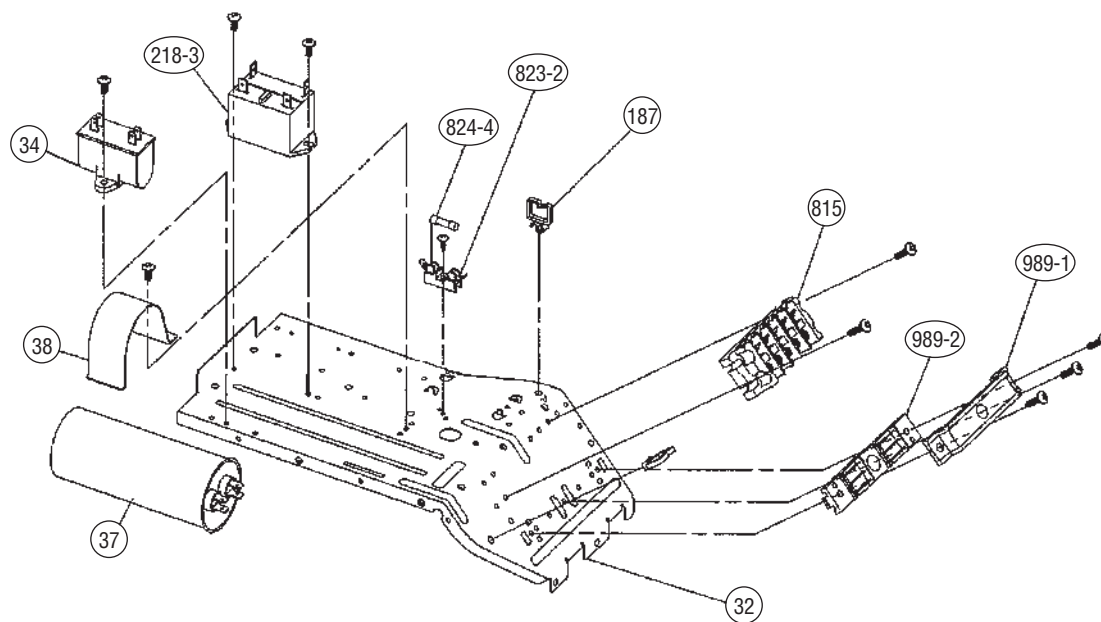




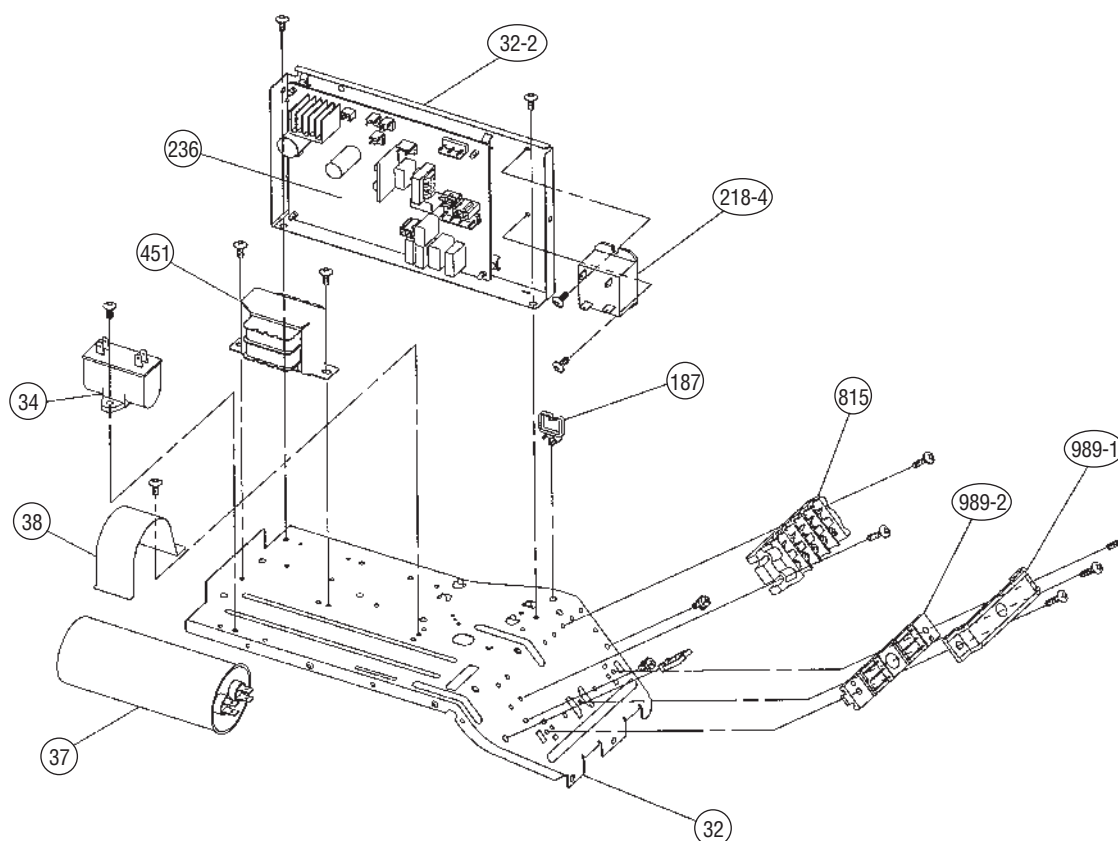
Models : RO-25SB
RO-25RSC



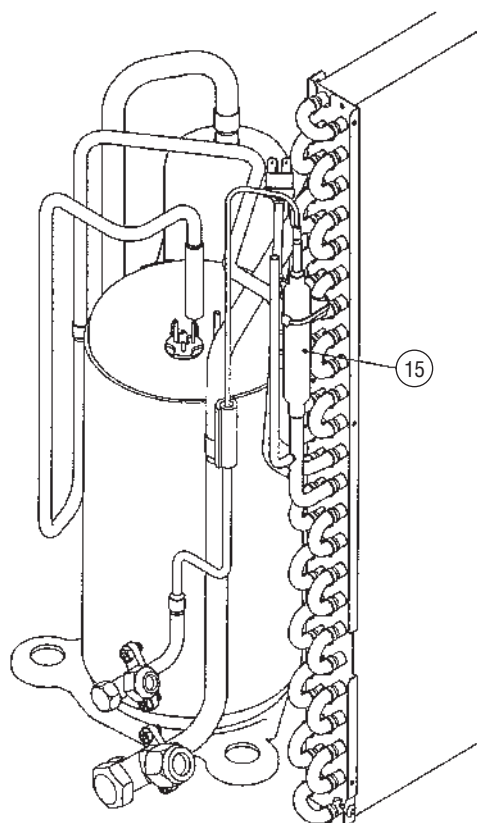
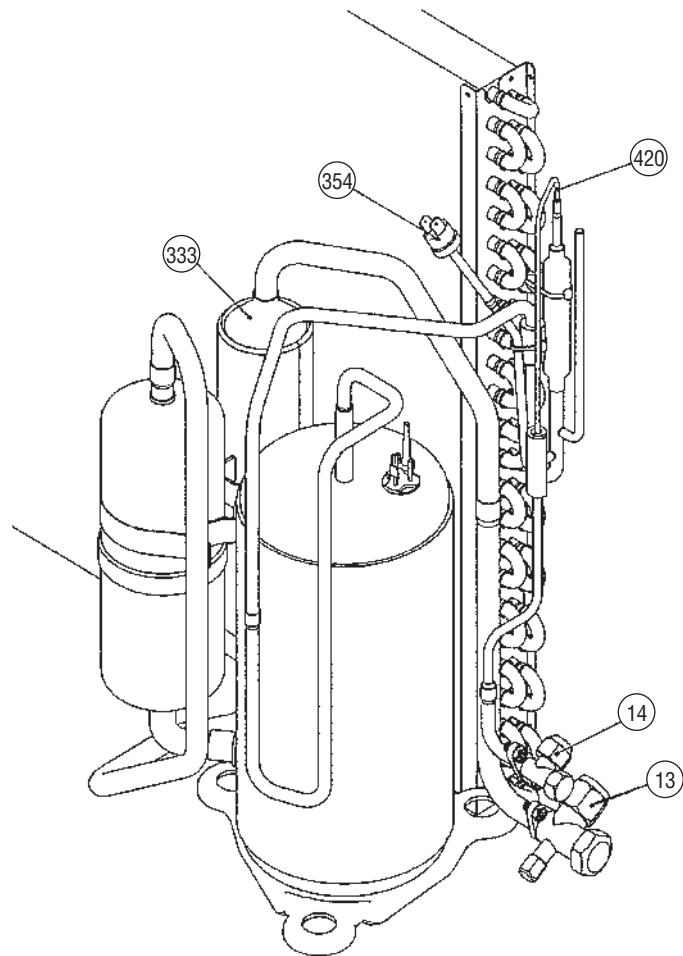
Model : RO-25SB



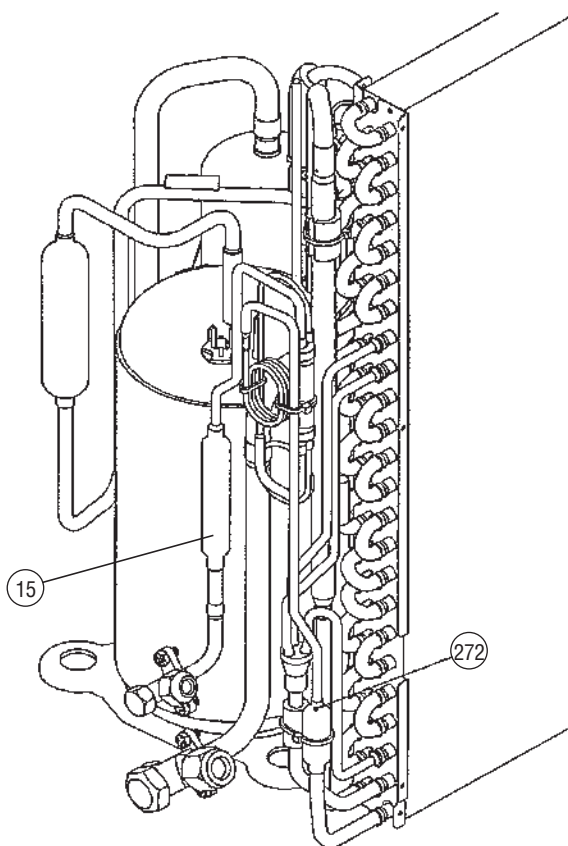
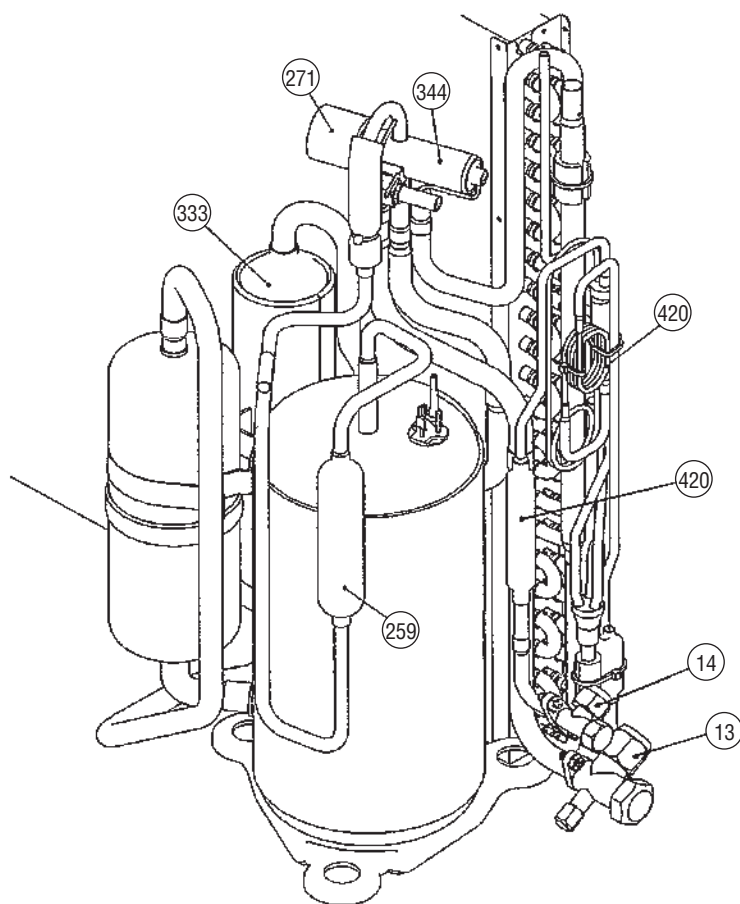
Model : RO-25RSC



Model : RO-25SB



Model : RO-25RSC



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
		RC-25SB	RC-25RSB				RC-25SB	RC-25RSB	
34	Capacitor (Fan Motor)	9703306068	9703306068		474	Tube Fan Assy	9362810012	9362810012	
61	Decoration Plate	9363133004	9363133004		476-2	Special Washer	9362756006	9362756006	
71	Grille Hook Holder	9362782005	9362782005		477	Bellmouth (B)	9362774000	9362774000	
93	Filter	9362766005	9362766005		479	Float Switch	9703285004	9703285004	
117-3	Hex. Nut w/Spring Washer	301721180114	301721180114		481	Insulation (Grille)-A	9362780001	9362780001	
122	Louver Support Holder	9362799003	9362799003		481-1	Insulation (Grille)-B	9362781008	9362781008	
127	Drain Hose	9365074008	9365074008		482	Pump Unit	9703125010	9703125010	
138	Separate Wall	9362793001	9362793001		484	Hook	9362736008	9362736008	
143-1	Clamp NK-3N	313361274700	313361274700		487	Grille Hinge Wire	9362754002	9362754002	
143-3	Clamp NK-9N	313209399700	313209399700		488	Drain Pan Plug	313005174654	313005174654	
146-1	Evaporator-A Assy	9368196004	9368196004		514	Control Box Cover	9362763004	9362763004	
146-2	Evaporator-B Assy	9368197001	9368197001		522	Joint Gear	9362772006	9362772006	
155	Special Nut M5	9307615016	9307615016		541	Terminal Plate	9363642001	9363642001	
160	Drain Pan Assy	9362804004	9362804004		542	Panel Base	9362759014	9362759014	
164	Fan Motor Assy-In	9601558019	9601558019		543	Panel Frame Holder	9362761017	9362761017	
168	Cabinet-E	9362735001	9362735001		544	Panel Base Holder	9362760010	9362760010	
184-1	Thermostat Spring-A	313728262708	313728262708		545	Panel Frame	9362758017	9362758017	
187	Clamp No. 1219	313361271706	313361271706		563	Insulation Inner Box	9362797009	9362797009	
195	Clamp SKB-100	313361275805	313361275805		565	Evaporator Holder Assy	9362802024	9362802024	
197	Wind Guide Board	9363117004	9363117004		628	Locking Spacer-B	313005446558	313005446558	
223	Control Box	9362762007	9362762007		629	EMI Filter	0400247074	0400247074	
226	Motor Gear	9362764001	9362764001		690	Joint-A	9362773003	9362773003	
234	Thermistor Assy-Room	9703299025	9703299025		692	Joint Shaft	9362771009	9362771009	
235	Thermistor Assy-Pipe	9703297014	9703297014		705	Louver	9362769013	9362769013	
236	Controller PCB Assy	9704557339	9704557193		710	Intake Grille-B	9362854016	9362854016	
240	Remote Control Unit	9371438023	9371438016		735	Distributor Assy	9368198008	9368198008	
244	Pipe Cover	9362748001	9362748001		777-1	Grille Hook-A	9362779012	9362779012	
245	Cable Clamp	313714181904	313714181904		777-2	Grille Hook-B	9362778015	9362778015	
329	Coupling Pipe Assy	9368204006	9368204006		798	Pump Hook Bracket	9362753005	9362753005	
337-1	Reinforcement (Eva.)-A	9362749008	9362749008		803	Cabinet-D	9362792004	9362792004	
337-2	Reinforcement (Eva.)-B	9362750004	9362750004		814	Cabinet-C	9362791007	9362791007	
338	Motor Holder	9362765008	9362765008		815-1	Terminal-3P	9306489069	9306489069	
381	Locking Spacer	313209391506	313209391506		815-2	Terminal-3P	9703345012	9703345012	
457	Reinforcement (Drain Pan)	9362757003	9362757003		824-3	Fuse	0600222512	0600222512	
460-1	Pump Cover-A	9362775007	9362775007		834-1	Wire Cover-A	9362789004	9362789004	
460-2	Pump Cover-B	9362776004	9362776004		834-2	Wire Cover-B	9362788007	9362788007	
462	Top Cover Plate Assy	9362806022	9362806022		835	Cushion Rubber (Pump)	9362777001	9362777001	
464	Cabinet-A Assy	9362807012	9362807012		847	Louver Supporter	9362770019	9362770019	
465	Cabinet-B Assy	9362808019	9362808019		858	Grille Spring	9362755009	9362755009	
467	Drain Port	9362786003	9362786003		875	Filter PCB Assy	9704561107	9704561107	
468	Special Nut-A (Large)	313005446653	313005446653		876-2	Step Motor	9360307019	9360307019	
469	Special Nut-B (Small)	313005446759	313005446759		903	Rubber (Vibration-proof)-A	9364891002	9364891002	
472-1	Grille Reinforcement-A	9362738002	9362738002		904	Rubber (Vibration-proof)-B	9364892009	9364892009	
472-2	Grille Reinforcement-B	9362739009	9362739009		982-1	Cord Clamp	9356857009	9356857009	
472-3	Grille Reinforcement-C	9362740005	9362740005		998	Bypass Pipe-A	9368207007	9368207007	
472-4	Grille Reinforcement-D	9362741002	9362741002		999	Bypass Pipe-B	9368208004	9368208004	
472-5	Grille Reinforcement-E	9362742009	9362742009						

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

OUTDOOR UNIT

Ref. No.	Description	Part No.		Ord. Q'ty	Ref. No.	Description	Part No.		Ord. Q'ty
		RO-25SB	RO-25RSC				RO-25SB	RO-25RSC	
2	Fan Cover (Guard)	9371187013	9371187013		64	Side Panel-L, Painted	9371926018	9371926018	
4	Emblem-Rear	9361328006	9361328006		69-3	Bolt, Hexagon Socket	301210060360	301210060360	
5	Front Panel, Painted	9371924014	9371924014		85	Valve Plate, Painted	9371928012	9371928012	
7	Corner Cover (Cabinet)	9366398004	9366398004		107	Rubber Seat-A (For Comp.)	9351049010	9351049010	
8	Wire Assy (Comp.)	9372334010	9372334010		109	Terminal Cover (For Comp.)	9371511016	9371511016	
9	Side Panel-R, Painted	9371927015	9371927015		187	Clip (Cable)	9352715006	9352715006	
10	Air Seal Plate	9372213018	9372213018		218-3	Relay	9900074012	—	
12	Base Assy, Painted	9371920016	9371920016		218-4	Main Relay	—	9353611017	
13	3-Way Valve Assy	9372650011	9372650011		236	Controller PCB Assy	—	9704299055	
14	2-Way Valve Assy	9372649015	9372649015		259	Muffler	—	9372369012	
15	Dryer	9368111014	9368111014		271	4-Way Valve Rubber	—	313728251908	
16	Condenser Assy	9372181072	9372181072		272	Strainer	—	9369287008	
26	Compressor Cover-A	9372327029	9372327029		333	Accumulator	9368391003	9368391003	
29	Separate Wall	9371933016	9371933016		344	4-Way Valve	—	9900163013	
32	Control Box	9371935010	9371935010		354	Pressure Switch	9370941005	—	
32-2	Control Box-B	—	9371936017		361	Accumulator Support Assy	9372252017	9372252017	
34	Capacitor, Plastic	9703306082	9703306082		412	Cover Gasket (Comp.)	9371512013	9371512013	
37	Running Capacitor	9703107023	9703107023		420	Capillary Assy	9372197097	9372197219	
38	Capacitor Clamp Metal	313791061807	313791061807		451	Transformer Power	—	9900039011	
39	Propeller Fan Assy	9366378013	9366378013		527	Protection Net	9371934013	9371934013	
41	Fan Motor Assy-Out	9601671039	9601671039		734	Cabinet Top Plate	9371925011	9371925011	
45-1	Motor Bracket	9371929019	9371929019		754	Terminal Gasket Washer	9351053017	9351053017	
45-2	Motor Bracket Top	9371931012	9371931012		815	Terminal	9356497021	9900203023	
45-3	Motor Bracket Center	9371930015	9371930015		823-2	Fuse Holder	0500063024	—	
45-4	Motor Bracket Bottom	9371932019	9371932019		824-4	Fuse	0600222529	—	
46	Compressor Assy	9372594025	9372594025		989-1	Cord Clamp-A	9359822011	9359822011	
51	Special Nut M5 (For Comp.)	9300301015	9300301015		989-2	Cord Clamp-B	9359823018	9359823018	
55	Special Nut M8 (For Comp.)	9355091008	9355091008						

STANDARD ACCESSORIES

INDOOR UNIT ACCESSORIES

Name and Shape	Part No.
Coupler heat insulation 	9350716029 } 1 each 9352766015 }
Remote control unit cord clamp 	313714181904
Binder 	313035356905 (Large) 313361275805 (Small)
Screw 	(A) 301141134166 For installing the mounting bracket (B) 301141153027 For installing the cord clamp
Special nut A (large flange) 	313005446653
Special nut B (small flange) 	313005446759
Remote control unit 	(Cooling model) 9371438023 (Cooling & Heating model) 9371438016
Template 	9363173000
Blower cover insulation 	9363265002
Hook wire 	9363168006

OUTDOOR UNIT ACCESSORIES

Name and Shape	Q'ty	Application	Parts No.
Drain pipe 	1	For outdoor unit drain piping work [Heat & Cool (Reverse cycle) model only]	9303029015
Drain cap 	2		313166024302



MANUFACTURER :

Fuji Denki Sosetsu Co., Ltd.

Tokyo, Japan