



**SPLIT TYPE
AIR CONDITIONER**

CASSETTE type (50Hz)

**SERVICE
MANUAL**

Models

Indoor unit	Outdoor unit
AUG18ABAB	AOG18ANCKH
AUG18ABAB	AOG18ANCKL
AUG18RBAB	AOG18RNCKL

CONTENTS

SPECIFICATIONS	1
OUTLINE AND DIMENSIONS	3
REFRIGERANT SYSTEM DIAGRAM...	5
CIRCUIT DIAGRAM	6
INDOOR PCB CIRCUIT DIAGRAM.....	8
ERROR CONTENTS.....	10
DISASSEMBLY ILLUSTRATION.....	11
PARTS LIST	19

SPECIFICATIONS

ELECTRICAL DATA

TYPE	Cooling
INDOOR UNIT	AUG18ABAB
OUTDOOR UNIT	AOG18ANCKH AOG18ANCKL
COOLING CAPACITY	4.95 kW - 5.10 kW
POWER SOURCE	220 V - 240 V
FREQUENCY	50 Hz
RUNNING CURRENT	8.5 A - 8.0 A
INPUT WATTS	1.80 kW - 1.90 kW
E.E.R.	2.75 - 2.68 kW/kW
STARTING CURRENT	42 A
MOISTURE REMOVAL	2.1 L/hr
AIR CIRCULATION HIGH	650 m3/hr

FAN MOTOR

POWER SOURCE		240 V
INDOOR UNIT	Discrimination	MFA-18GTT
	High speed	820 r.p.m.
	Middle speed	740 r.p.m.
	Low speed	620 r.p.m.
OUTDOOR UNIT	Discrimination	MFB-24JTBT
	High speed	800 r.p.m.
	Low speed	400 r.p.m.

NOISE LEVEL

INDOOR UNIT	High speed	44 dB
	Middle speed	41 dB
	Low speed	37 dB
OUTDOOR UNIT		52 dB

DIMENSIONS

INDOOR UNIT H x W x D	235 x 580 x 580 +70 mm
OUTDOOR UNIT H x W x D	650 x 830 x 320 mm
GRILLE H x W x D	35 x 650 x 650 mm

WEIGHT

INDOOR UNIT Gross / Net	23 kg / 18 kg
OUTDOOR UNIT Gross / Net	56 kg / 51 kg
GRILLE Gross / Net	4.3 kg / 2.2 kg

COMPRESSOR AND REFRIGERANT

OUTDOOR UNIT		AOG18ANCKH	AOG18ANCKL
TYPE		Hermetic type	Hermetic type
POWER SOURCE		220 - 240V 50Hz	220 - 240V 50Hz
DISCRIMINATION		2JS318D5BA02	2JS318D5DA02
STANDARD REFRIGERANT		1,150 g	1,250 g
REFRIGERANT TYPE		R-22	R-22
FULL CHARGE	Pipe length 7.5 m	1,150 g	1,250 g
	10 m	1,188 g	1,300 g
	15 m	1,263 g	1,400 g
	20 m	1,338 g	1,500 g
ADDITIONAL CHARGE		15 g/m	20 g/m
MAXIMUM HEIGHT		8 m	8 m

ELECTRICAL DATA

TYPE		Cooling & Heating
INDOOR UNIT		AUG18RBAB
OUTDOOR UNIT		AOG18RNCKL
COOLING CAPACITY		4.85 kW - 5.00 kW
HEATING CAPACITY		5.30 kW - 5.45 kW
POWER SOURCE		220 V - 240 V
FREQUENCY		50 Hz
RUNNING CURRENT	Cooling	8.5 A - 8.0 A
	Heating	9.0 A - 8.5 A
INPUT WATTS	Cooling	1.75 kW - 1.85 kW
	Heating	1.85 kW - 1.95 kW
E.E.R.	Cooling	2.77 - 2.70 kW/kW
	Heating	2.86 - 2.79 kW/kW
STARTING CURRENT		42 A
MOISTURE REMOVAL		2.1 L/hr
AIR CIRCULATION HIGH		650 m3/hr

FAN MOTOR

POWER SOURCE		240 V
INDOOR UNIT	Discrimination	MFA-18GTBT
	High speed	820 r.p.m.
	Middle speed	740 r.p.m.
	Low speed	620 r.p.m.
OUTDOOR UNIT	Discrimination	MFB-24JTBT
	High speed	800 r.p.m.
	Low speed	400 r.p.m.

NOISE LEVEL

INDOOR UNIT	High speed	Cool 44 dB / Heat 45 dB
	Middle speed	Cool 41 dB / Heat 41 dB
	Low speed	Cool 37 dB / Heat 37 dB
OUTDOOR UNIT		Cool 52 dB / Heat 53 dB

COMPRESSOR AND REFRIGERANT

COMPRESSOR TYPE		Hermetic type
DISCRIMINATION		2JS318D5BA02
POWER SOURCE		220 - 240V 50Hz
STANDARD REFRIGERANT		1,500 g
REFRIGERANT TYPE		R-22
FULL CHARGE	Pipe length 7.5 m	1,500 g
	10 m	1,575 g
	15 m	1,725 g
	20 m	1,875 g
ADDITIONAL CHARGE		30 g / m
MAXIMUM HEIGHT		8 m

DIMENSIONS

INDOOR UNIT	235 x 580 x 580 +70 mm
OUTDOOR UNIT H x W x D	650 x 830 x 320 mm
GRILLE	35 x 650 x 650 mm

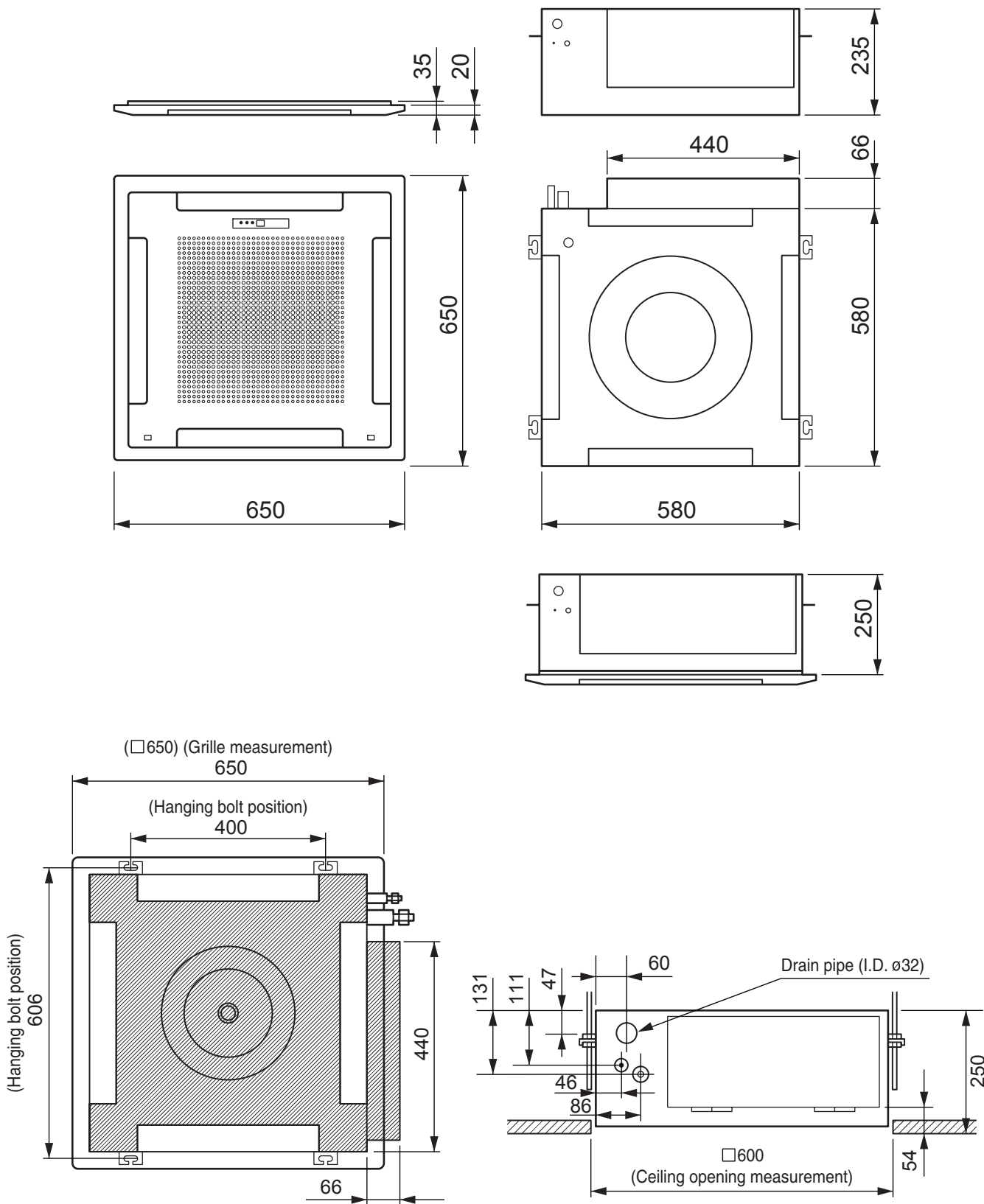
WEIGHT

INDOOR UNIT	23 kg / 18 kg
OUTDOOR UNIT Gross / Net	60 kg / 56 kg
GRILLE	4.3 kg / 2.2 kg

OUTLINE AND DIMENSIONS

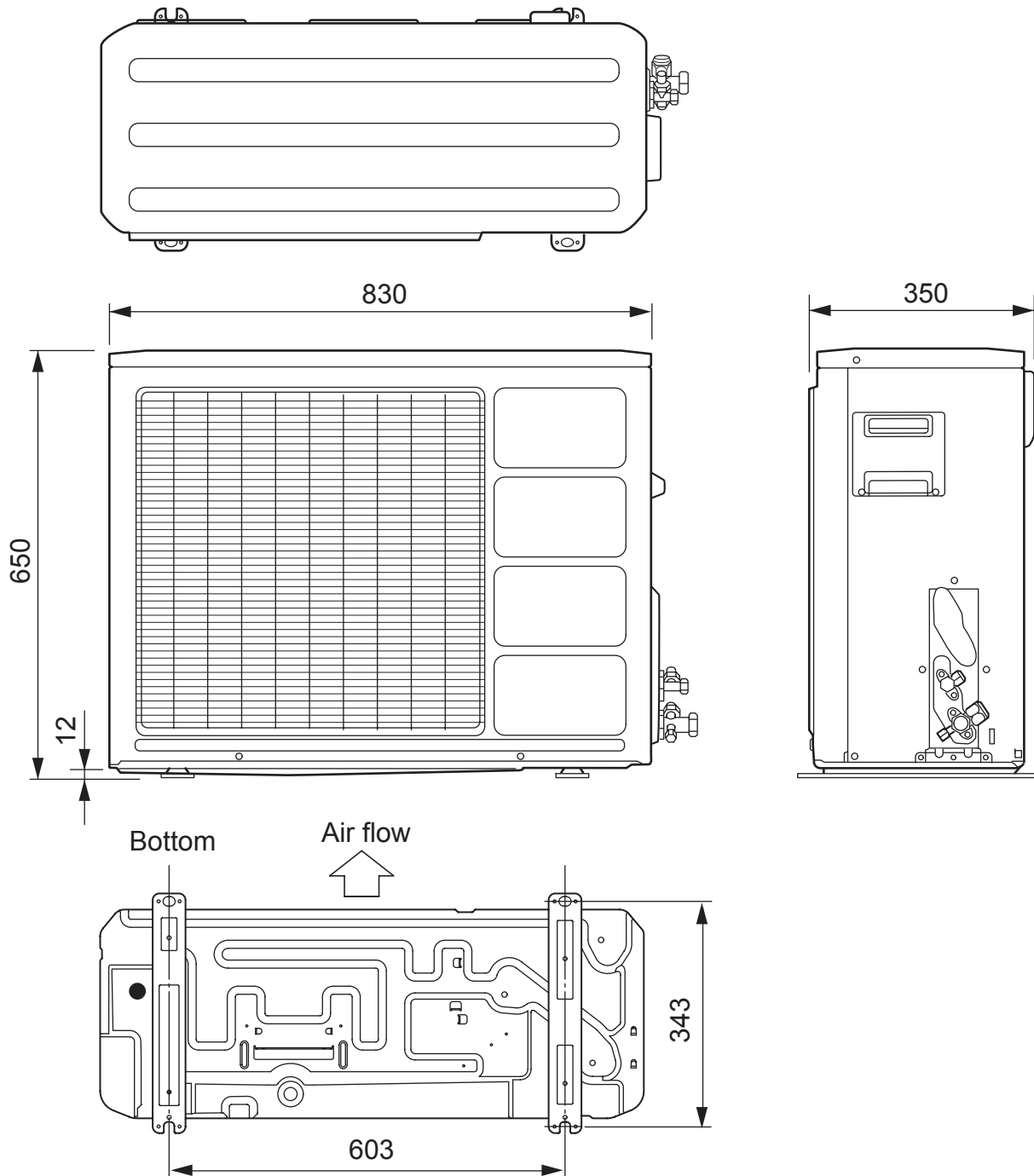
(unit : mm)

INDOOR UNIT



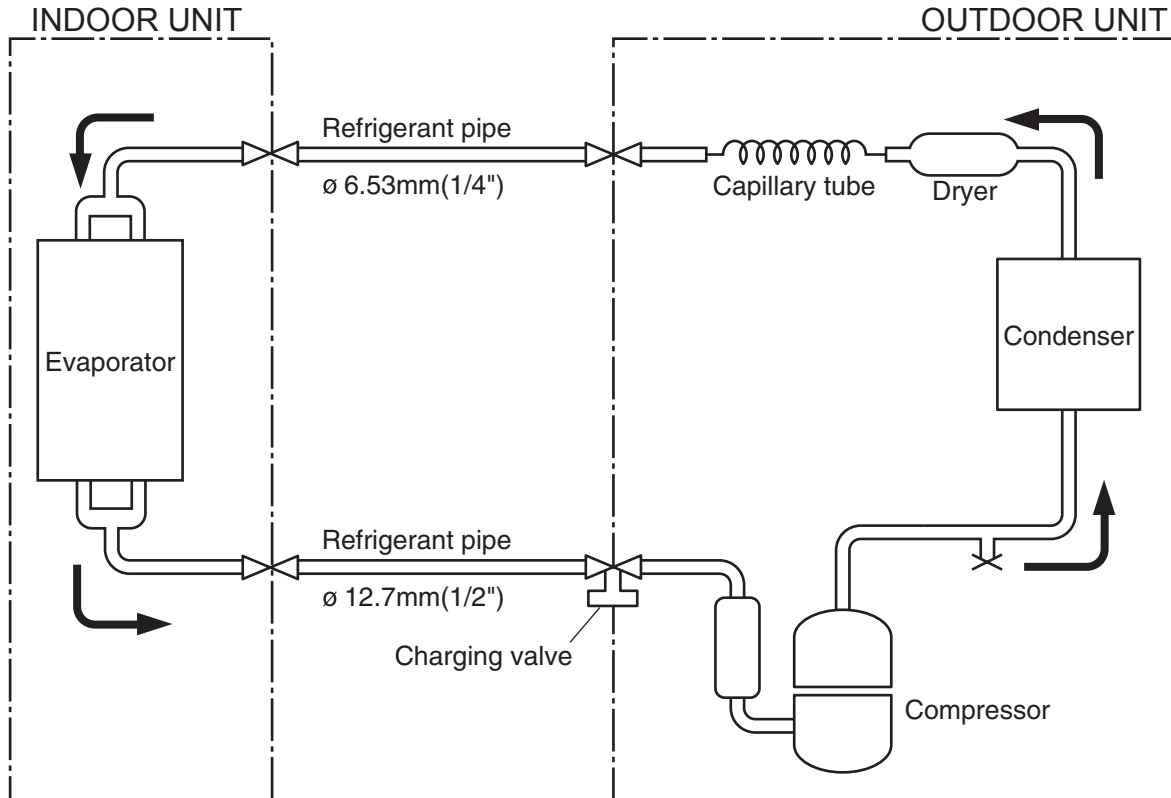
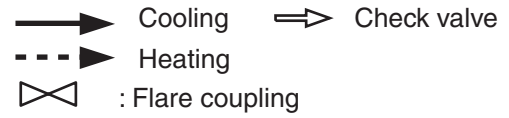
OUTDOOR UNIT

(unit : mm)

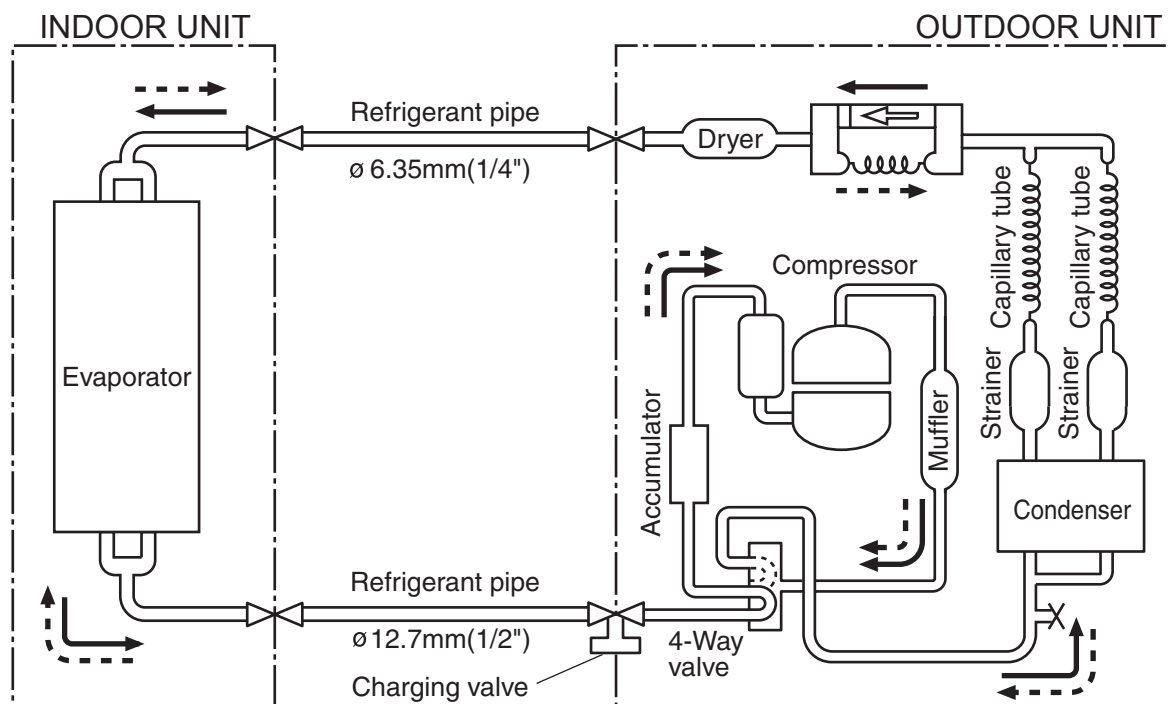


REFRIGERANT SYSTEM DIAGRAM

AUG18ABAB / AOG18ANCKH
AUG18ABAB / AOG18ANCKL



AUG18RBAB / AOG18RNCKL

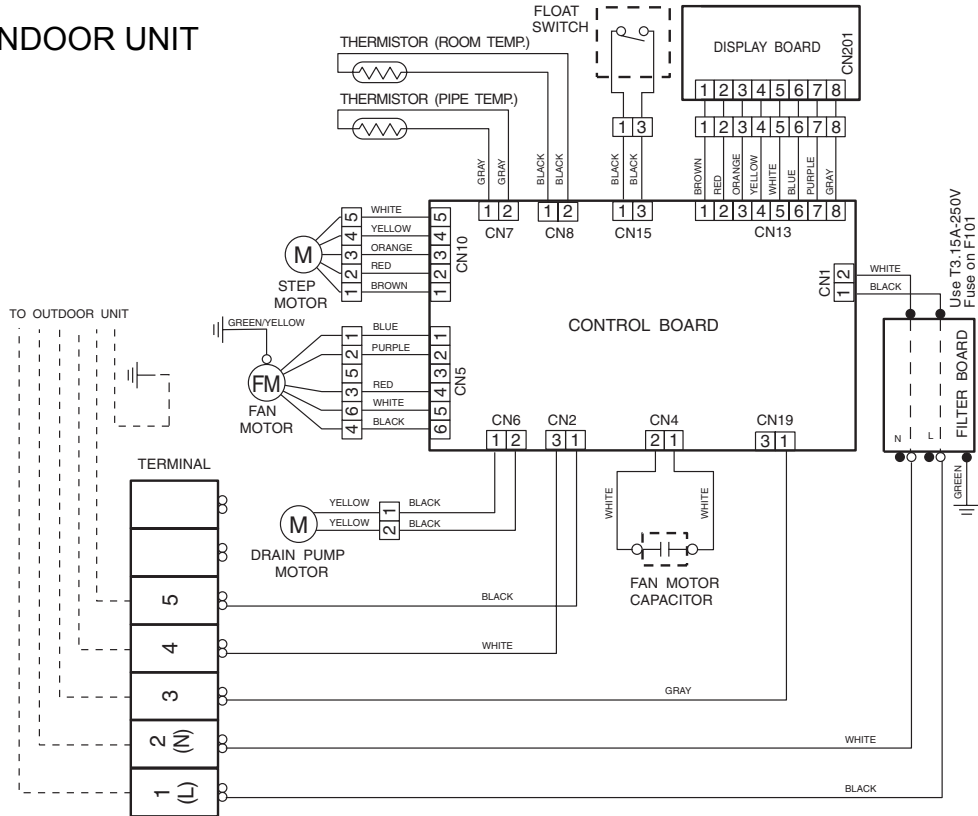


CIRCUIT DIAGRAM

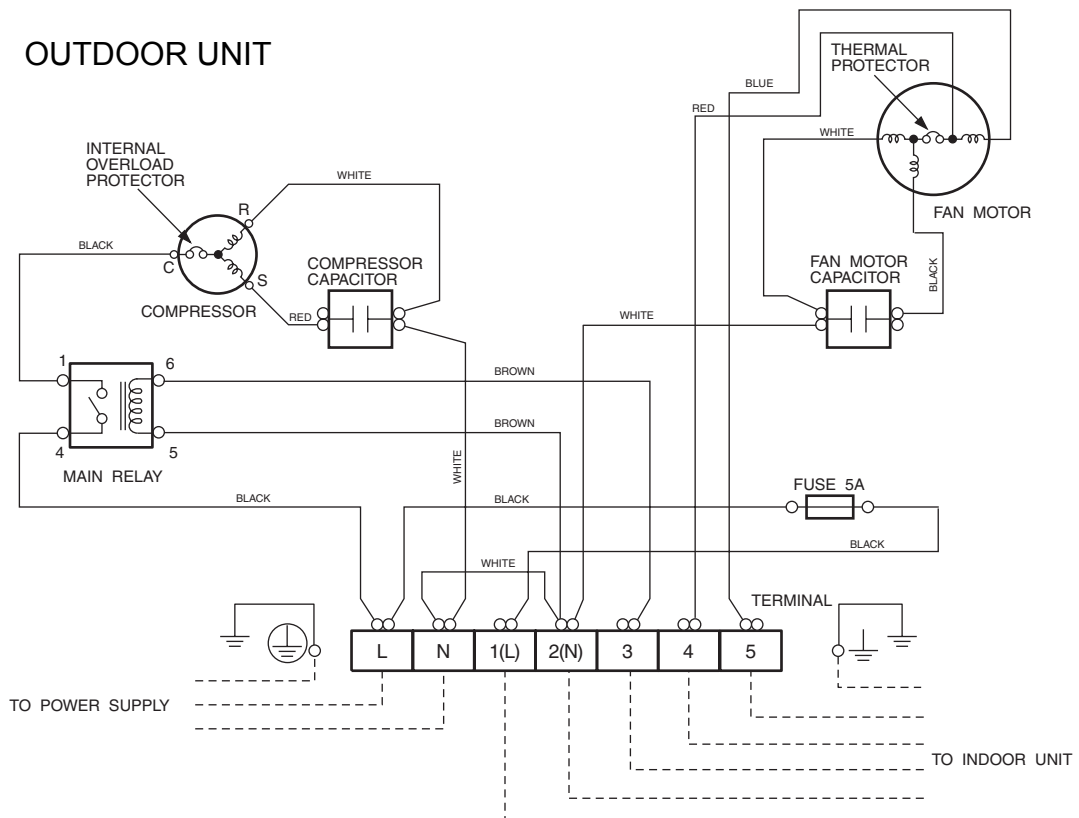
AUG18ABAB / AOG18ANCKH

AUG18ABAB / AOG18ANCKL

INDOOR UNIT

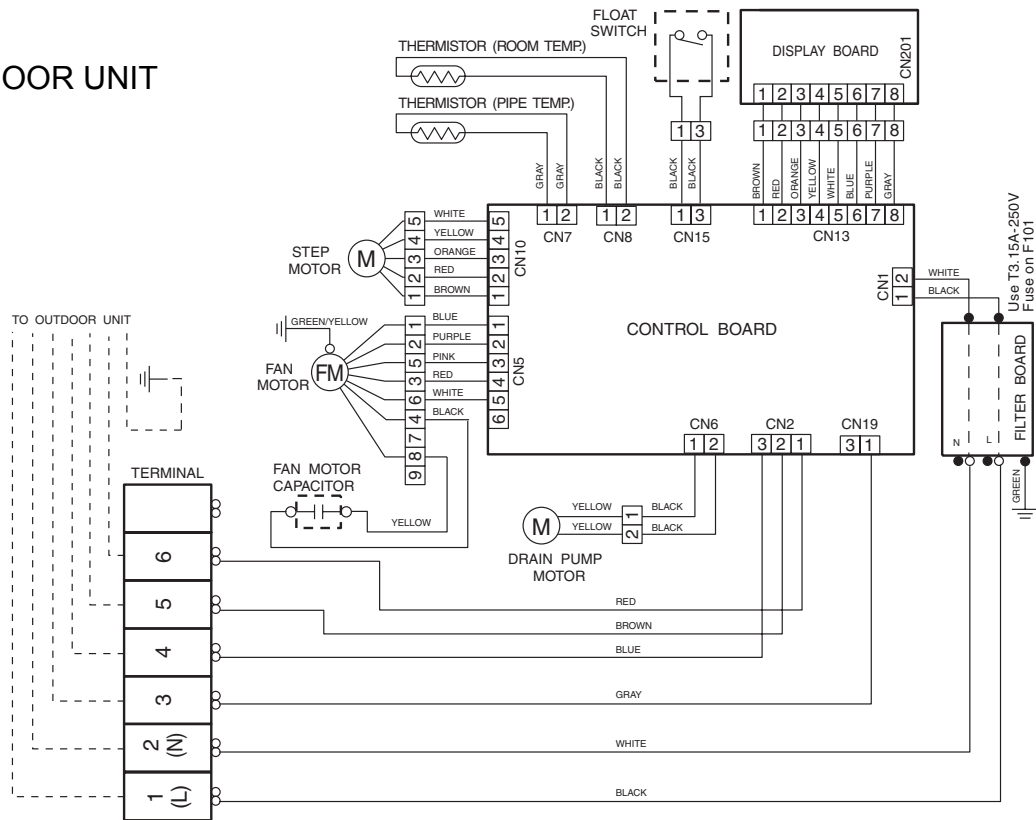


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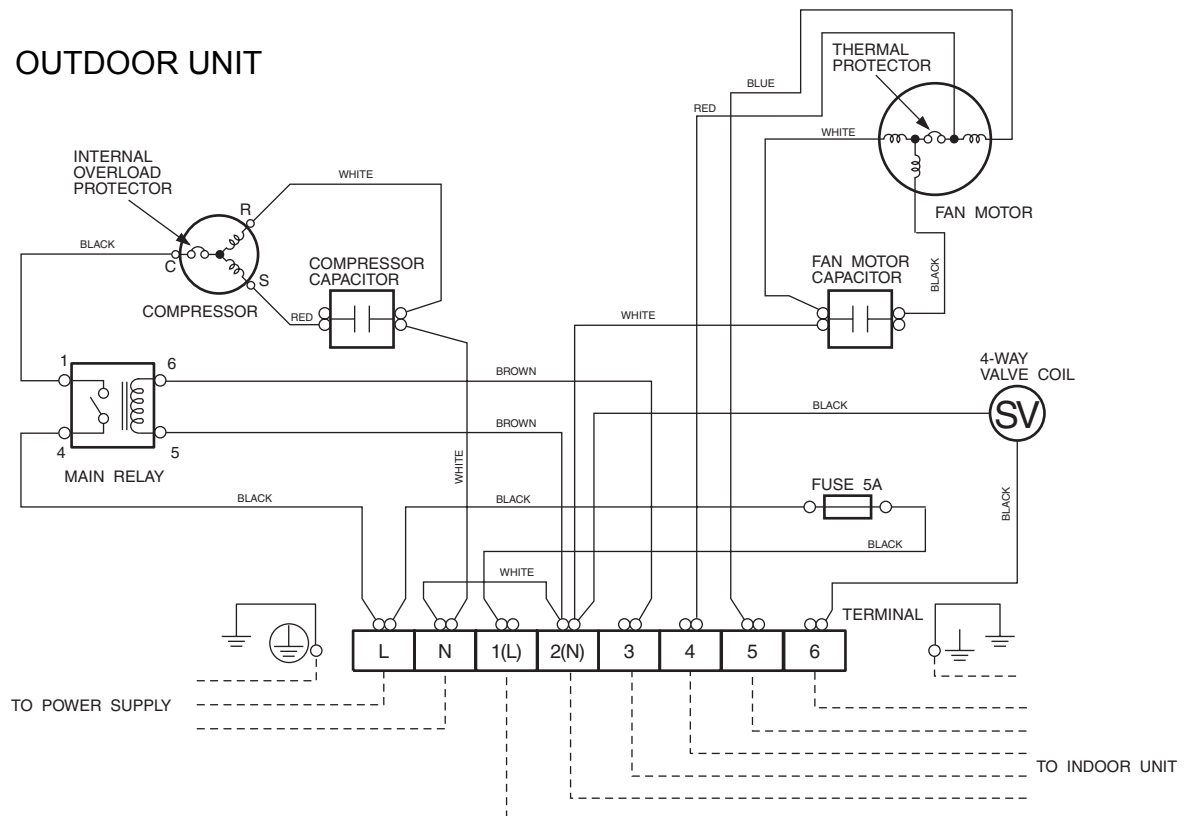


AUG18RBAB / AOG18RNCKL

INDOOR UNIT

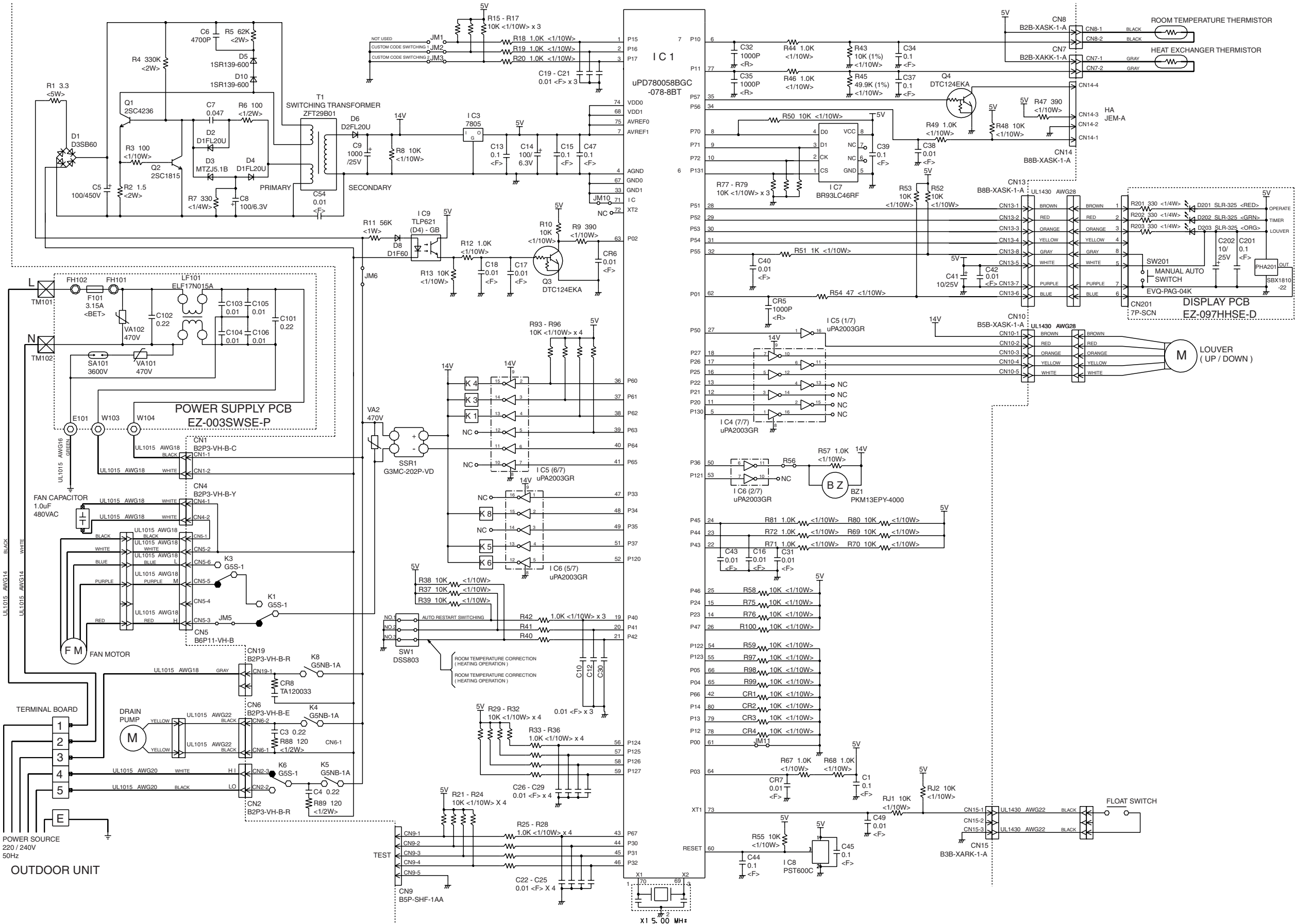


OUTDOOR UNIT

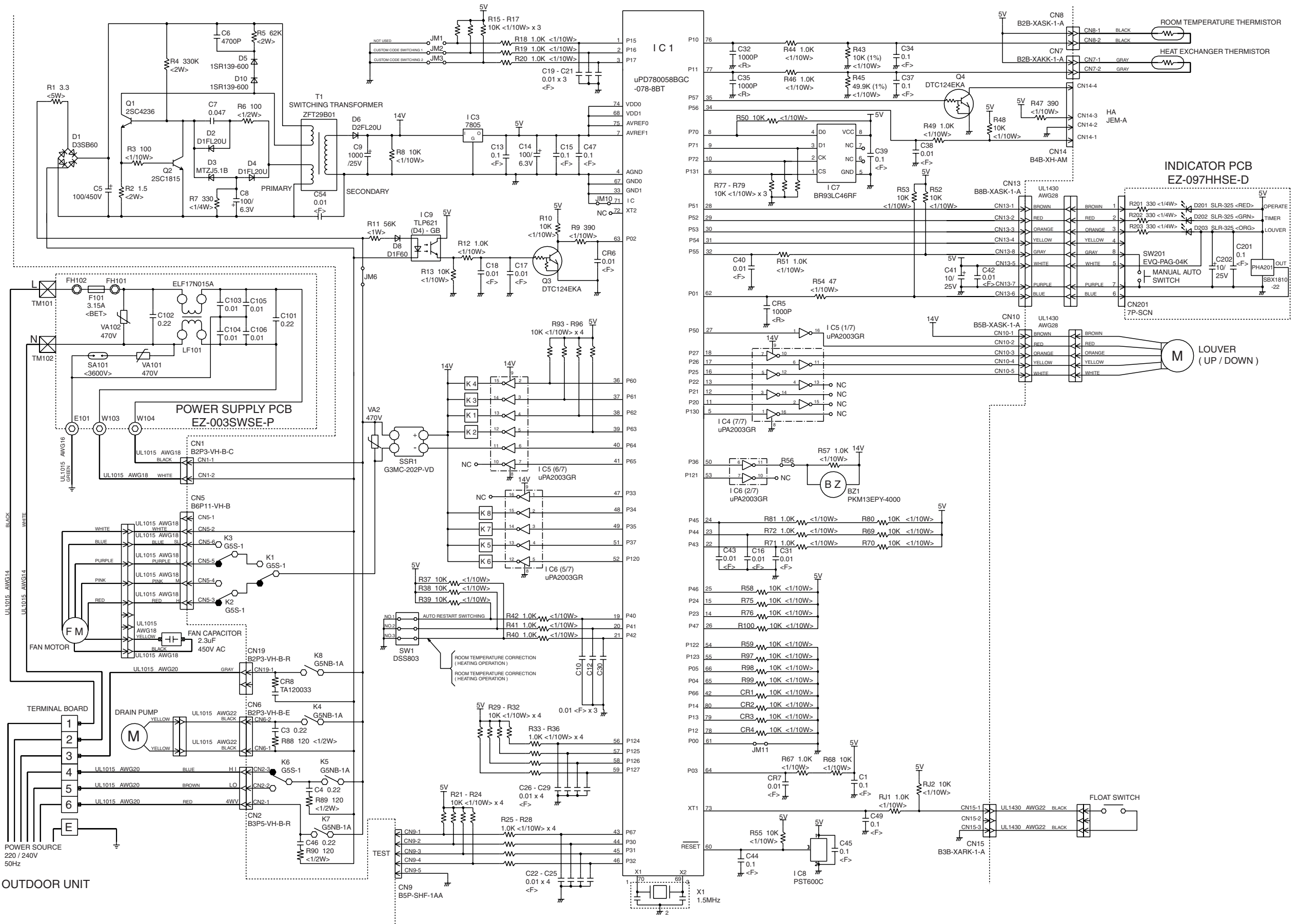


INDOOR PCB CIRCUIT DIAGRAM

AUG18ABAB
Controller PCB Assy
EZ-003SWSE-C

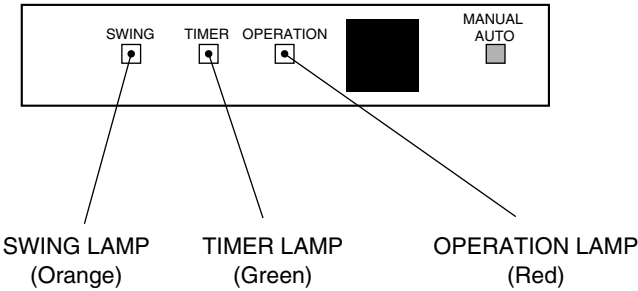


AUG18RBAB
Controller PCB Assy
EZ-00306HSE-C



ERROR CONTENTS

Operation can be checked by lighting and flashing of the grille display section OPERATION and TIMER lamps.
Perform judgment in accordance with the following.



TEST RUNNING

When the air conditioner is run by pressing the remote control unit test run button, the OPERATION and TIMER lamps flash slowly at the same time.

ERROR

The OPERATION, TIMER, and SWING lamps operate as follows (Table 1) according to the error contents.

Table 1

Error display			Error contents
OPERATION lamp	TIMER lamp	SWING lamp	
Blinks	Blinks	Goes off	Model information abnormal (permanent type)
Pulses 4 times	Blinks	Goes off	Drain abnormal (permanent type)
Pulses 6 times	Blinks	Goes off	Indoor fan abnormal
Pulses 2 times	Blinks	Goes off	Room air temperature thermistor open circuit
		Blinks	Room air temperature thermistor short circuit
Pulses 3 times	Blinks	Goes off	Piping thermistor open circuit
		Blinks	Piping thermistor short circuit

CHECK ITEMS

1. INDOOR UNIT

- (1) Is operation of each button on the remote control unit normal?
- (2) Does each lamp light normally?
- (3) Do not air flow direction louvers operate normally?
- (4) Is the drain normal?
- (5) Is there any abnormal noise and vibration during operation?

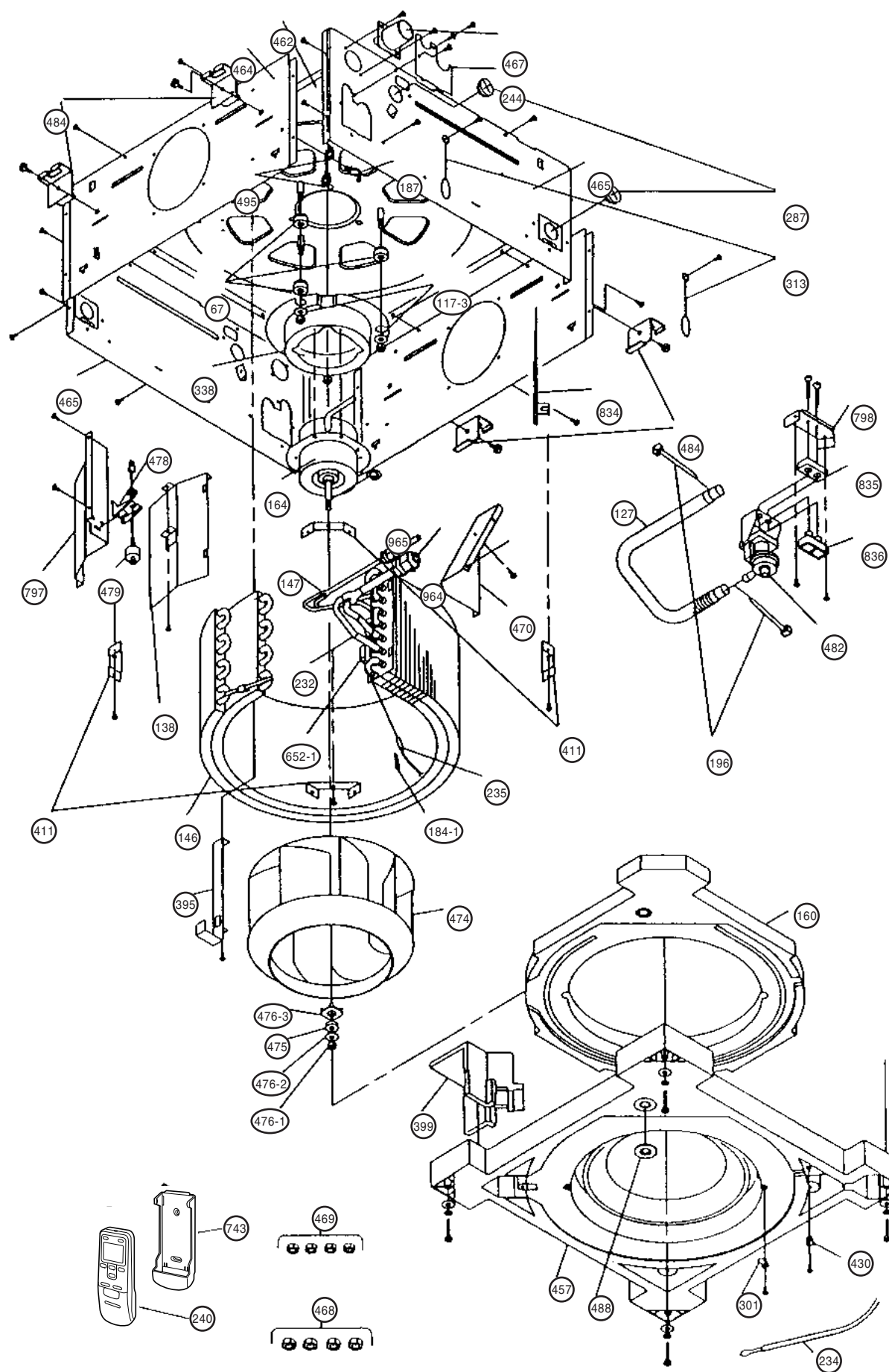
2. OUTDOOR UNIT

- (1) Is there any abnormal noise and vibration during operation?
- (2) Will noise, wind or drain water from the unit disturb the neighbors?
- (3) Is there any gas leakage?

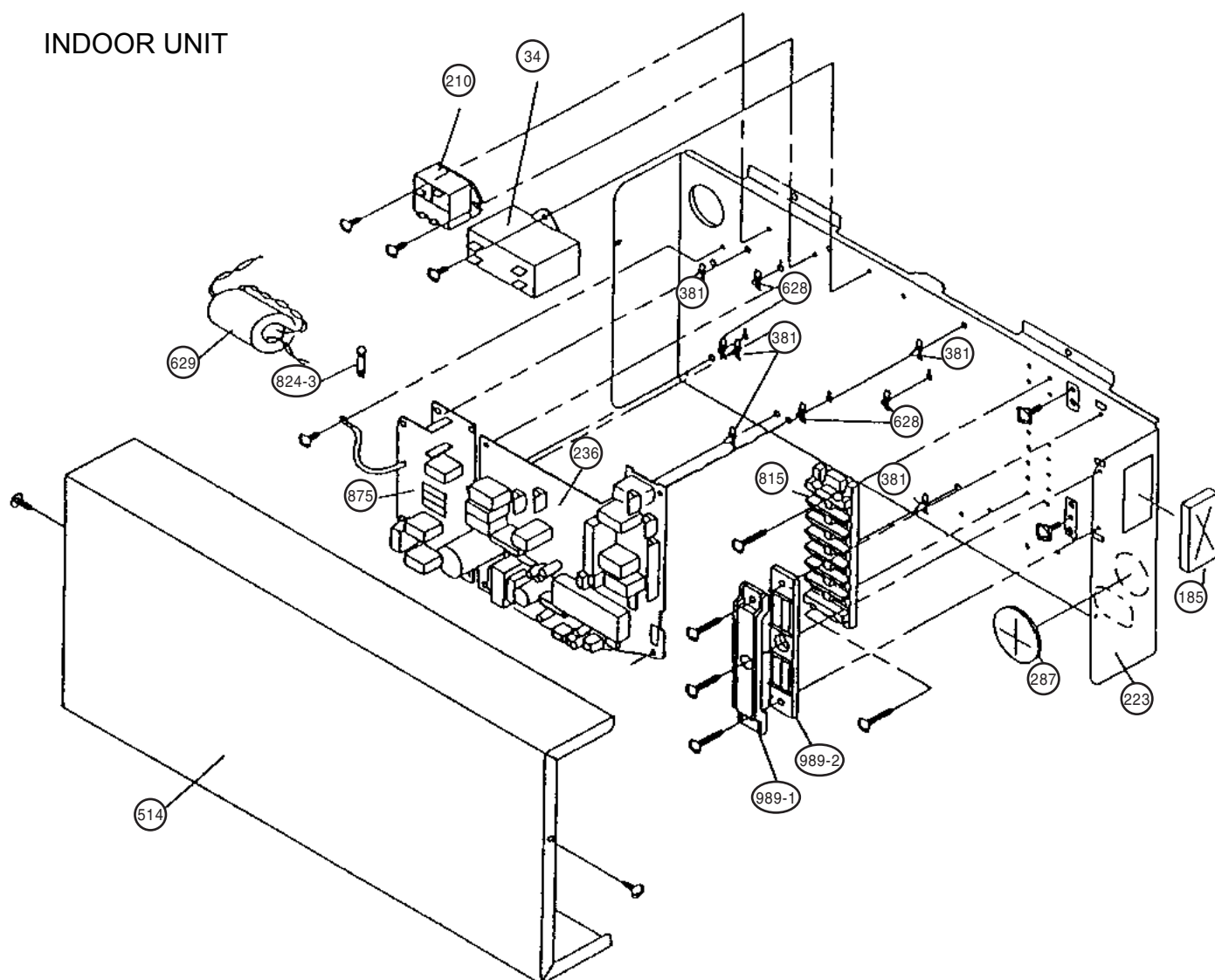
Do not operate the air conditioner in the test running state for a long time.

DISASSEMBLY ILLUSTRATION

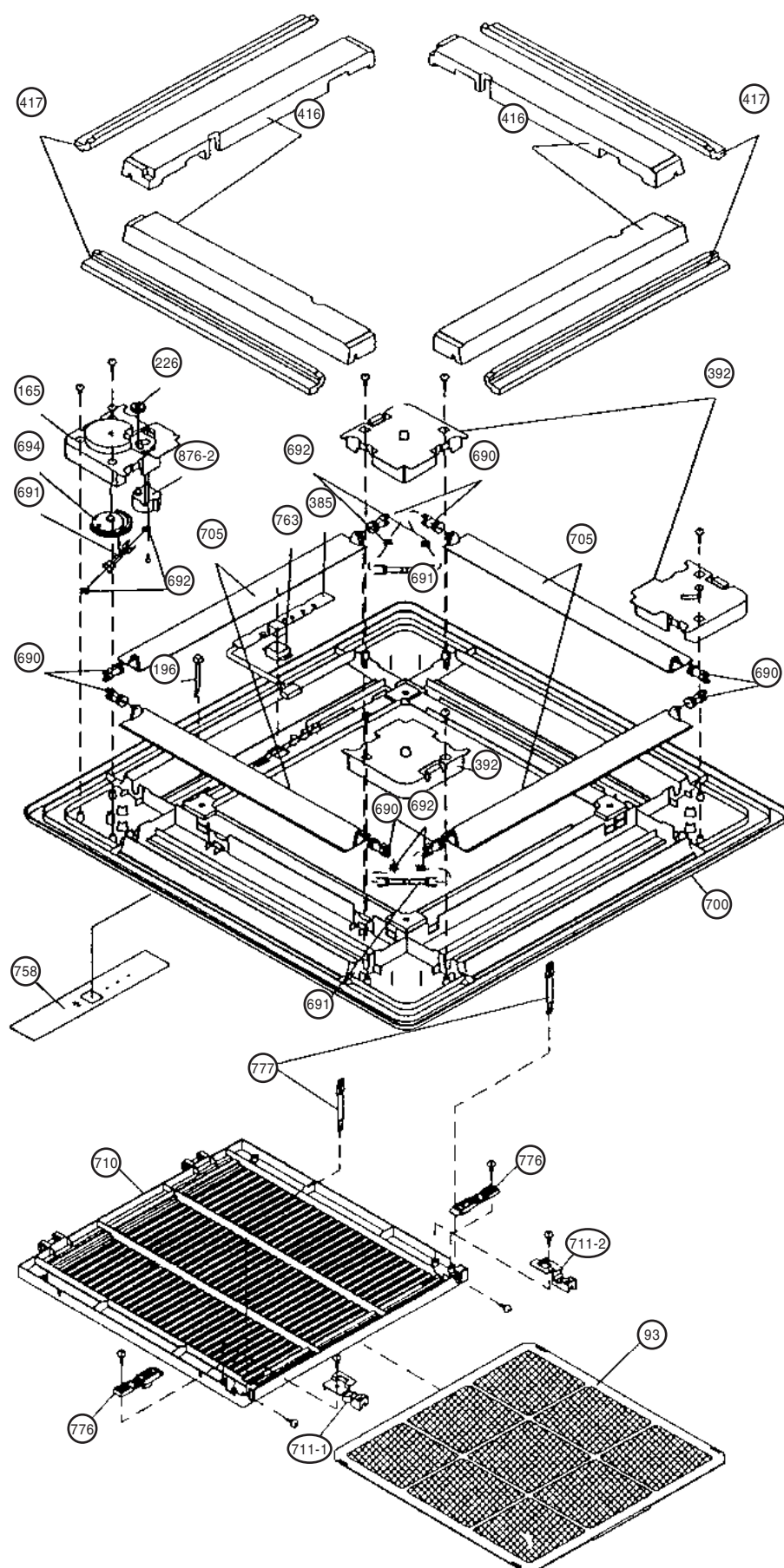
INDOOR UNIT



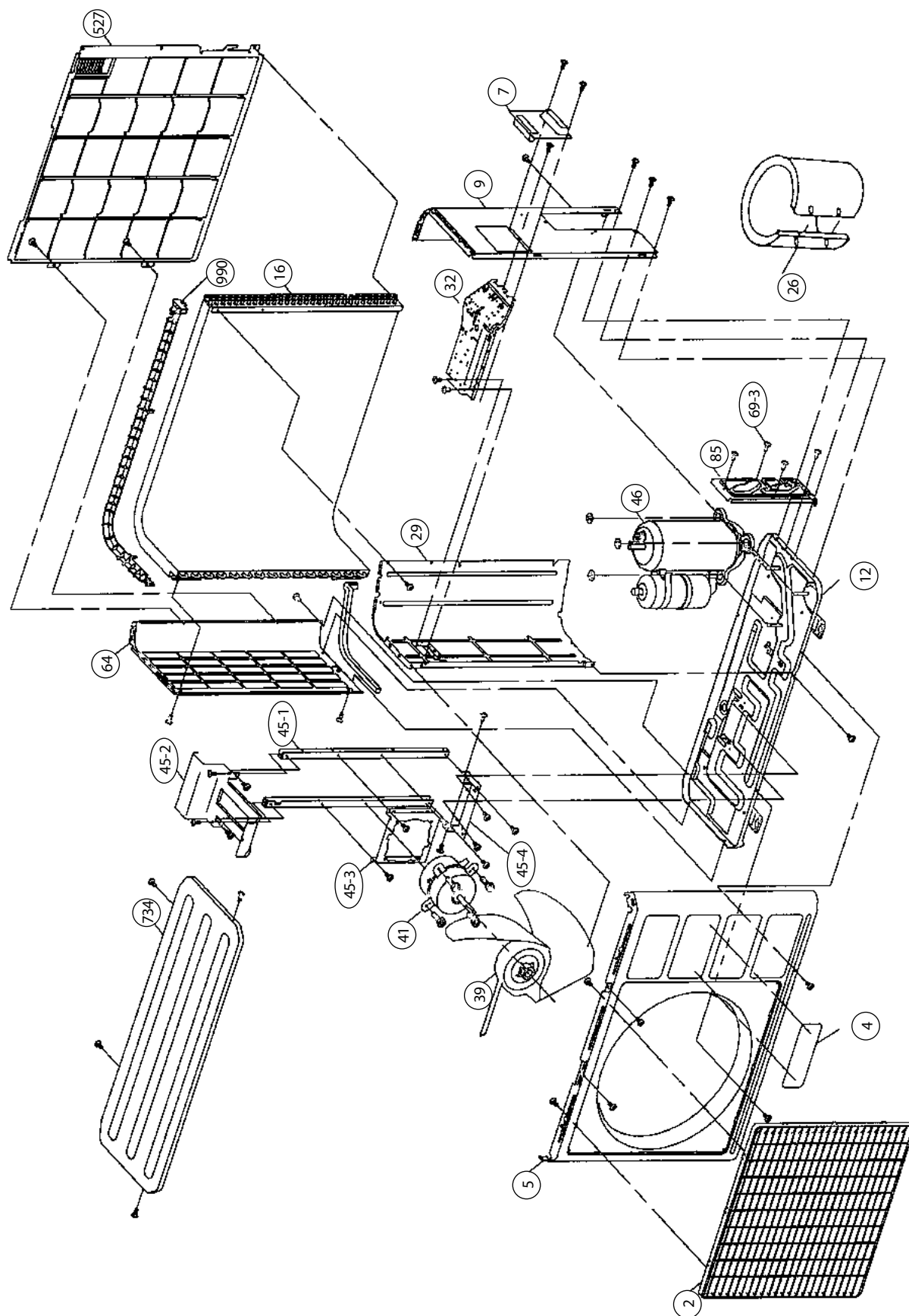
INDOOR UNIT



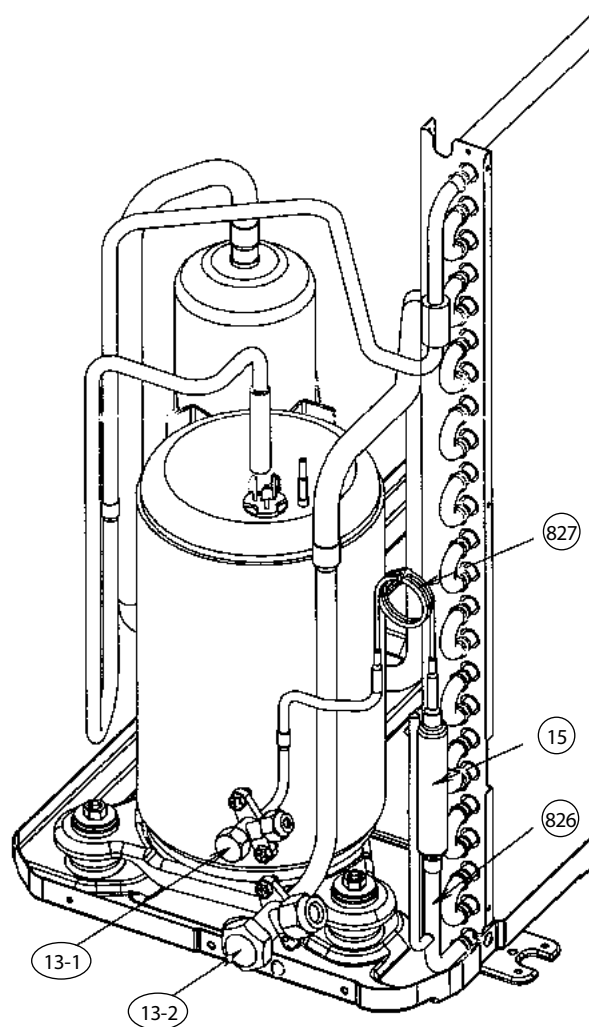
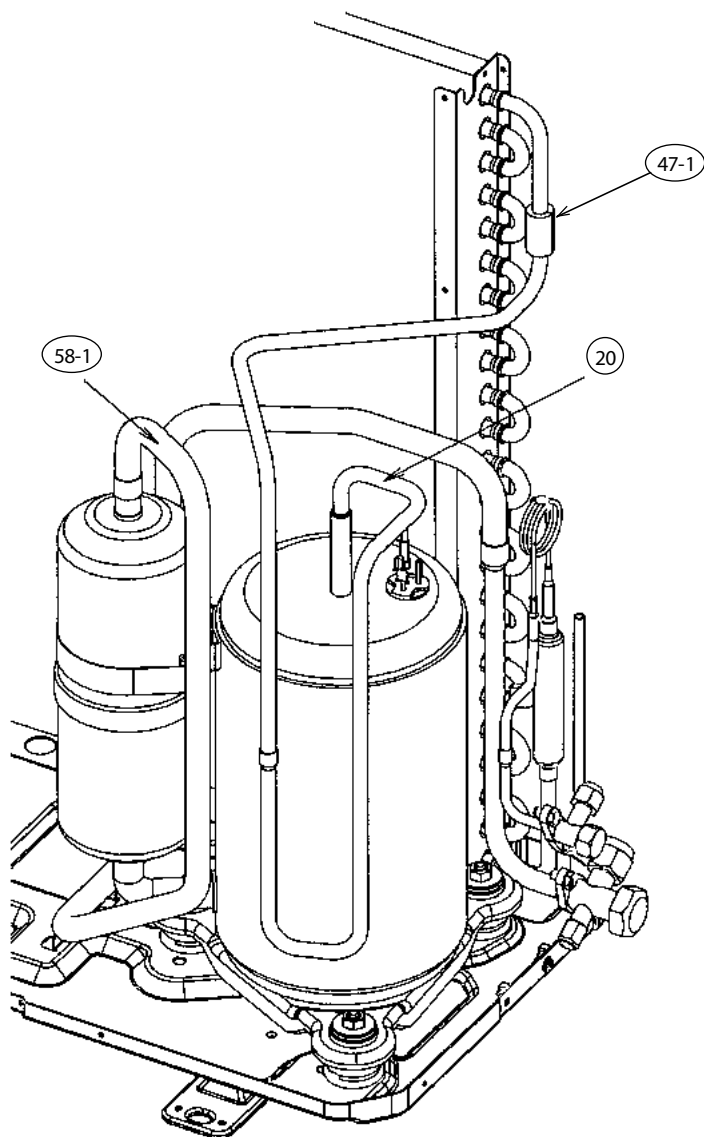
GRILLE UTG-UDGD-W



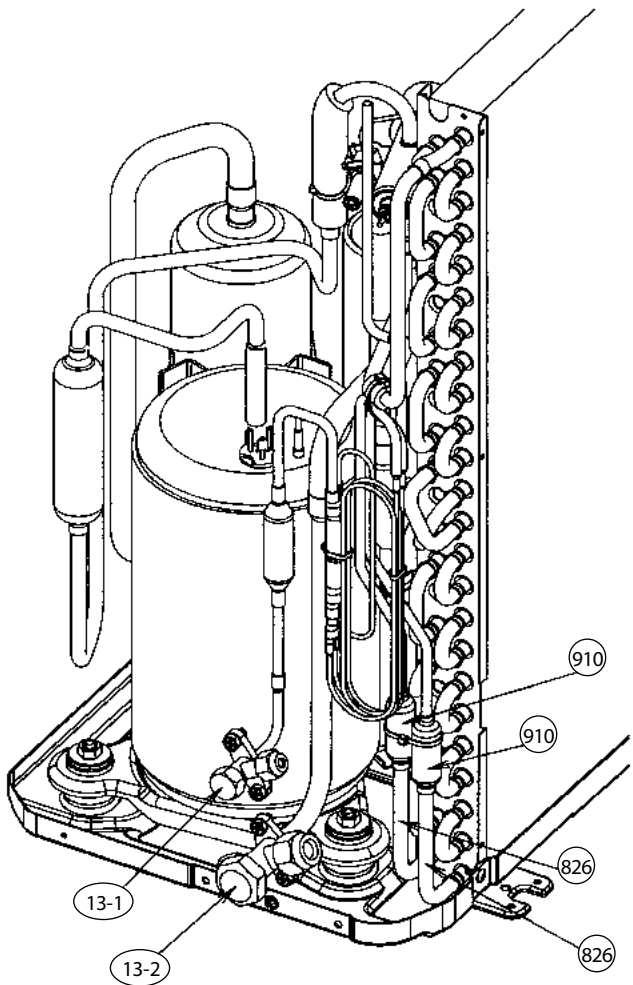
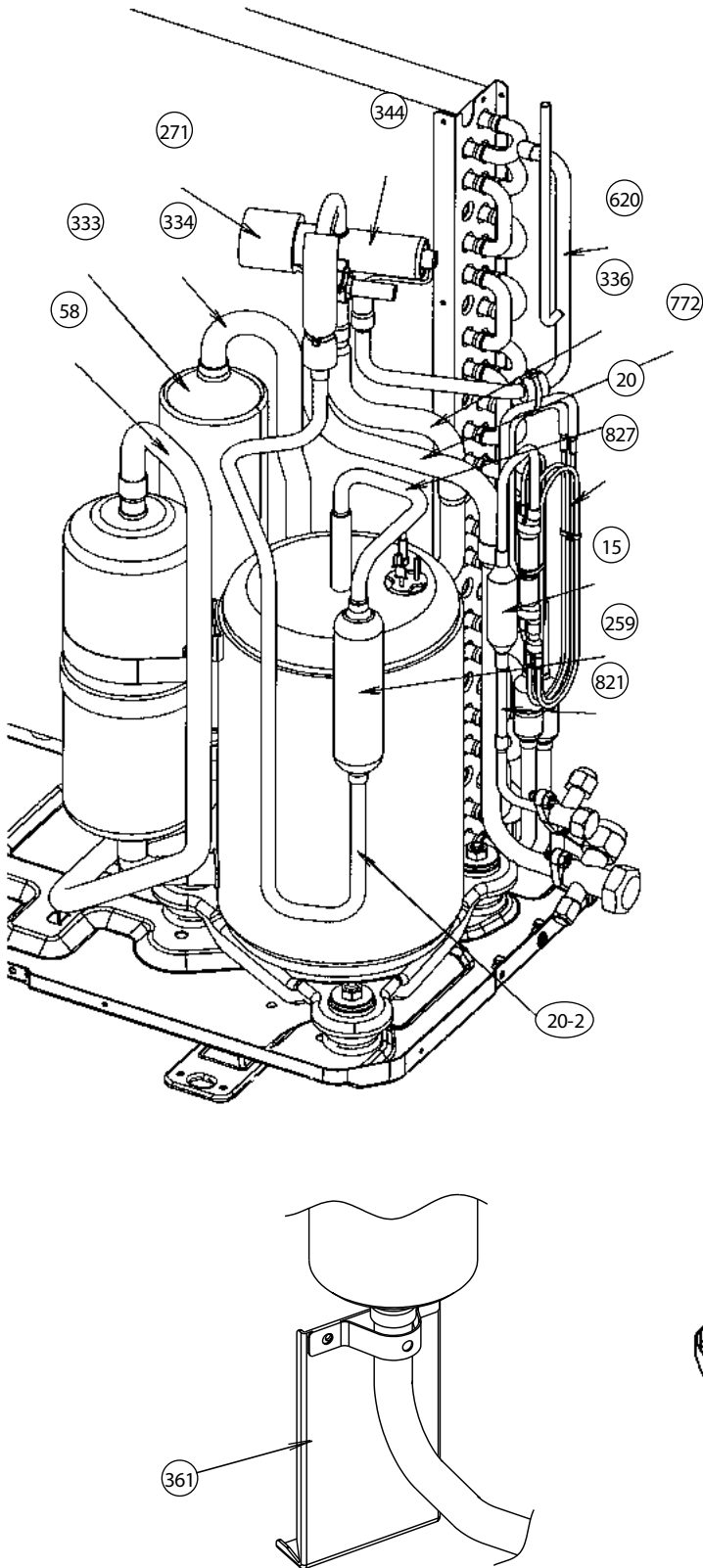
OUTDOOR UNIT
AOG18ANCKH
AOG18ANCKL
AOG18RNCKL



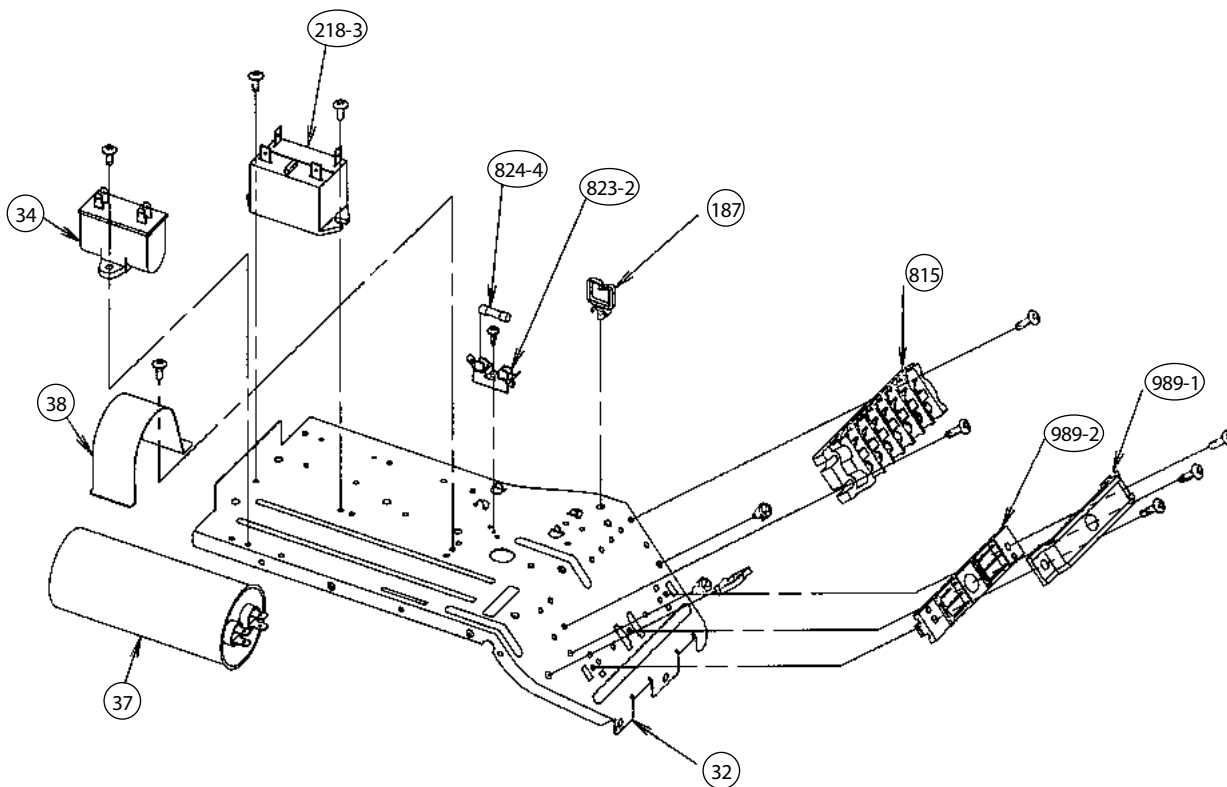
OUTDOOR UNIT
AOG18ANCKH
AOG18ANCKL



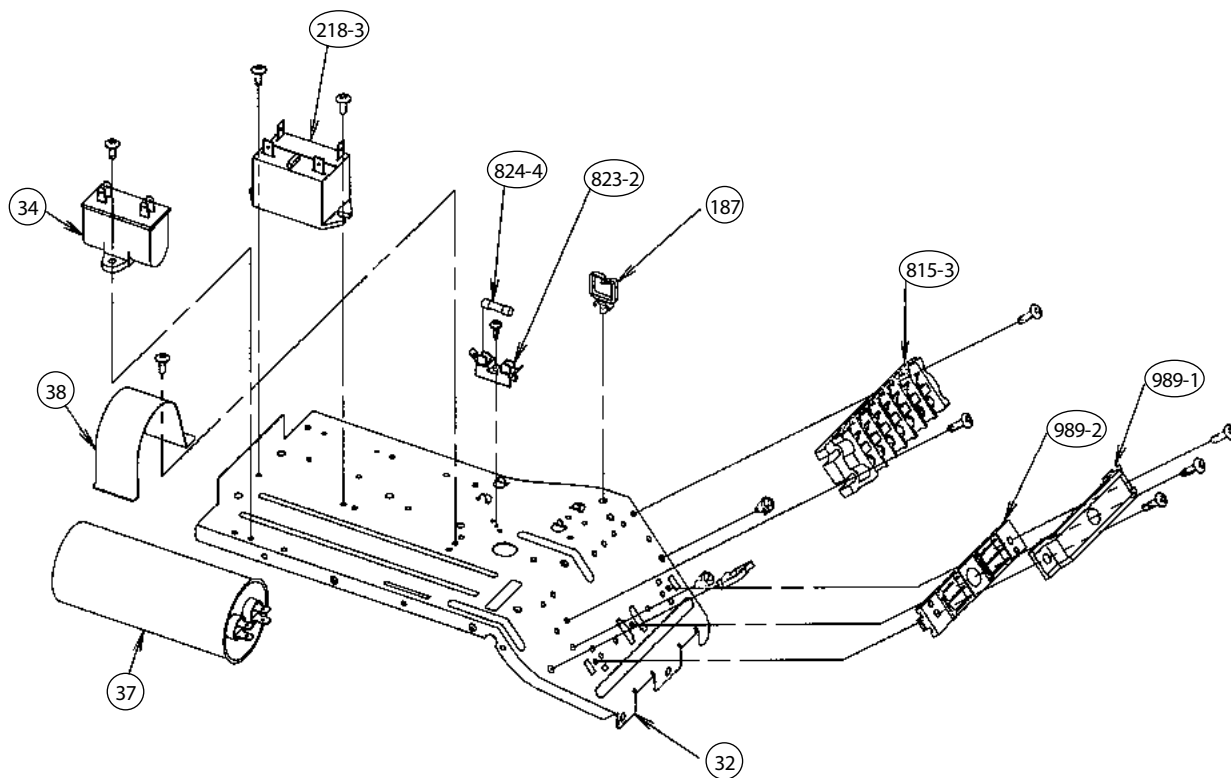
OUTDOOR UNIT
AOG18RNCKL



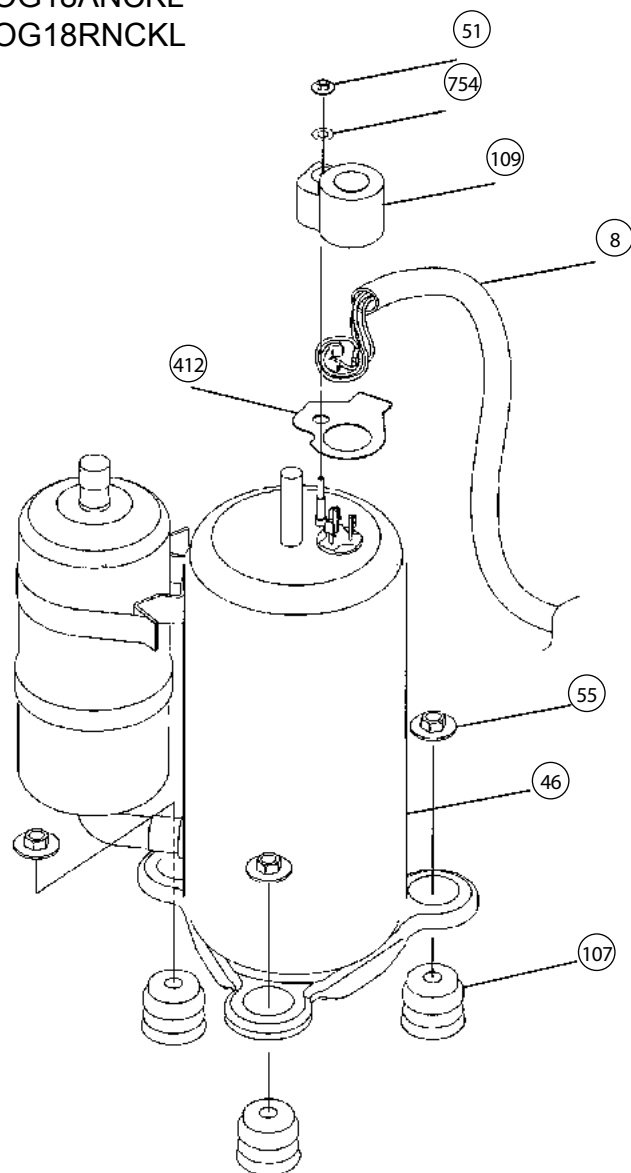
OUTDOOR UNIT
AOG18ANCKH
AOG18ANCKL



AOG18RNCKL



OUTDOOR UNIT
AOG18ANCKH
AOG18ANCKL
AOG18RNCKL



PARTS LIST

INDOOR UNIT

Ref.	Description	Part number		Ref.	Description	Part number	
		AUG18ABAB	AUG18RBAB			AUG18ABAB	AUG18RBAB
34	Capacitor (Fan Motor)	9704305046	9703306044	467	Drain Port	313005415658	313005415658
67	Rubber	9361279001	9361279001	468	Special Nut-A (Large)	313005446653	313005446653
117-3	Special Washer M6	313306391007	313306391007	469	Special Nut-B (Small)	313005446759	313005446759
127	Drain Hose	9359659013	9359659013	470	Separate Wall-B	9359648000	9359648000
138	Separate Wall-A	9359647003	9359647003	474	Turbo Fan	9359658009	9359658009
146	Evaporator Assy	9363516005	9363516005	475	Turbo Fan Rubber	9366013006	9366013006
147	Inlet Pipe (Eva.) Assy	9363517002	9363517002	476-1	Special Nut M8	313005360755	313005360755
160	Drain Pan	9359651000	9359651000	476-2	Special Washer	301801185049	301801185049
164	Fan Motor Assy	9601040026	9601040057	476-3	Special Washer	9359954002	9359954002
184-1	Thermo. Spring-A	313728262708	313728262708	478	Sensor M. Bracket	9359654001	9359654001
185	Rubber Bushing	313005066051	313005066051	479	Float Switch	313005416154	313005416154
187	Clamp No. 1219	313361271706	313361271706	482	Pump Unit	9359974000	9359974000
196	Clamp	313035356905	313035356905	484	hanger Metal	9359644002	9359644002
223	Control Box	9359661016	9359661016	488	Drain Pan Plug	9359653004	9359653004
232	Outlet Pipe (Eva.) Assy	9363518009	9363518009	495	Clamp No. 2U46	9352715006	9352715006
234	Thermistor Assy-Room	9703299032	9703299032	514	Control Box Cover	9359662006	9359662006
235	Thermistor Assy-Pipe	9703297014	9703297014	628	Locking Spacer-B	313005446558	313005446558
236	Controller PCB Assy	9704557490	9704557506	629	EMI Filter	0400197119	0400197119
240	Remote Control	9371190044	9371190037	652-1	Therm. Holder Pipe	313806262805	313806262805
244	Pipe Cover	9359646006	9359646006	743	Remote Control Holder	9371190044	9371190037
287	Cap (Power)	9352173011	9352173011	797	Sperate Wall-C	9359649007	9359649007
301	Clamp	313985355201	313985355201	798	Pump Hook Bracket	9359650003	9359650003
313	Hooking Wire	9359983002	9359983002	815	Terminal-7P	9358660102	9358660102
338	Motor Fixture	9359656005	9359656005	824-3	Fuse	0600222512	0600222512
381	Locking Spacer	313209391506	313209391506	834	Wire Cover	9359878001	9359878001
395	Supporter (Eva.)	9359669005	9359669005	835	Cushion-A (For Pump)	9352211013	9352211013
399	Air Duct	9359660002	9359660002	836	Cushion-B (For Pump)	9356084016	9356084016
411	Supporter-A	9359655008	9359655008	875	Filter PCB Assy	9704561169	9704561169
430	Clamp	313095365602	313095365602	964	Flare Nut-A	313996239804	313996239804
457	Drain Pan Support	9359652007	9359652007	965	Flare Nut-B	9351062019	9351062019
462	Top Cover Plate	9359642015	9359642015	989-1	Cord Clamp-A	9359822011	9359822011
464	Body-A	9359643005	9359643005	989-2	Cord Clamp-B	9359823018	9359823018
465	Body-B	9359645009	9359645009				

GRILLE ASSY (UTG-UDGD-W)

Ref.	Description	Part number	Ref.	Description	Part number
93	Filter	9359632009	694	Cam Gear	9359628002
165	Motor Cover	9359623014	700	Panel	9359619017
196	Clamp SKB-150	313035356905	705	Louver	9359624011
226	Motor Gear	9359629009	710	Intake Grille	9370126006
385	Indicator PCB Assy	9702224011	711-1	Filter Clamp-A	9359634003
392	Cover-A	9359622017	711-2	Filter Clamp-B	9359635000
416	Insulation (Panel)-A	9359620006	758	Decoration Plate-A	9360039026
417	Insulation (Panel)-B	9359621003	763	Receiver Cover	9359630005
690	Joint-A	9359626008	776	Grille Stopper	9359633013
691	Joint-B	9359627005	777	Grille Hook	9359761006
692	Joint Shaft	9359625001	876-2	Step Motor-V	9360307019

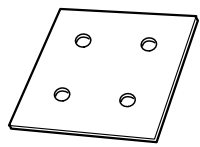
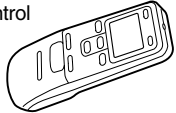
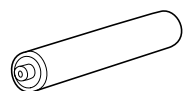
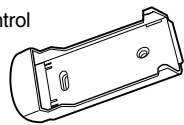
OUTDOOR UNIT

Ref.	Description	Part number	
		AOG18ANCKH	AOG18ANCKL
2	Fan Guard	9371187013	9371187013
4	Emblem-Rear	9372171011	9372171011
5	Front Panel	9371924014	9371924014
7	Connector Cover	9366398004	9366398004
8	Wire Assy (Comp)	9372334010	9372334010
9	Side Panel R Ptd	9371927015	9371927015
12	Base Assy Ptd	9371920016	9371920016
13-1	3-Way Valve	9372648018	9372648018
13-2	2-Way Valve	9372647011	9372647011
15	Dryer	9368111014	9368111014
16	Condenser Assy	9372181058	9372181065
20	Discharge Pipe Assy	9371581064	9371581064
26	Compressor Cover-A	9372327029	9372327012
29	Separate Wall	9371933016	9371933016
32	Control Box	9371935010	9371935010
34	Capacitor, Plastic	9900130022	9900130022
37	Running Capacitor	9704436023	9704436023
38	Capacitor Clamp Metal	9351770013	9351770013
39	Propeller Fan Assy	9366378013	9366378013
41	Motor, Induct	9601671015	9601671015
45-1	Motor Bracket	9371929019	9371929019
45-2	Motor Bracket-Top	9371931012	9371931012
45-3	Motor Bracket-Ctr	9371930015	9371930015
45-4	Motor Bracket-Bottom	9371932019	9371932019
46	Compressor Assy	9370878004	9368175009
47-1	Rubber (Discha. Pipe)	313194159807	313194159807
51	Special Nut M5	9300301015	9300301015
55	Special Nut M8	9355091008	9355091008
58-1	Suction Pipe-A	9372176061	9372176061
64	Side Panel L	9371927015	9371927015
69-3	Bolt, Hex. Socket	301210060360	301210060360
85	Valve Plate	9371928012	9371928012
107	Rubber Seat-A	9351049010	9351049010
109	Terminal Cover (Comp)	9371511016	9351048013
187	Clip (Cable)	9352715006	9352715006
218-3	Relay	9900074012	9900074012
412	Cover Gasket	9371512013	9351051013
527	Protection Net	9371934013	9371934013
734	Top Panel	9371925011	9371925011
754	Terminal Gasket Washer	9351053017	9351053017
815	Terminal-7P	9358660102	9358660102
823-2	Fuse Holder	0500063024	0500063024
824-4	Fuse	0600222529	0600222529
826	Condensing Pipe Assy	9371378046	9371378046
827	Capillary Assy	9372197080	9372197080
989-1	Cord Clamp-A	9359822011	9359822011
989-2	Cord Clamp-B	9359823018	9359823018
990	Air Seal Plate	9372213018	9372213018
--	Pressure Switch	9370941005	--

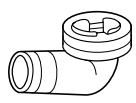
Ref.	Description	Part number
		AOG18RNCKL
2	Fan Guard	9371187013
4	Emblem-Rear	9372171011
5	Front Panel	9371924014
7	Connector Cover	9366398004
8	Wire Assy (Comp)	9372334010
9	Side Panel R Ptd	9371927015
12	Base Assy Ptd	9371920016
13-1	3-Way Valve	9372648018
13-2	2-Way Valve	9372647011
15	Dryer	9368112011
16	Condenser Assy	9372181089
20	Discharge Pipe-A	9372179017
20-2	Discharge Pipe-B	9372180013
26	Compressor Cover-A	9372327012
29	Separate Wall	9371933016
32	Control Box	9371935010
34	Capacitor, Plastic	9900130022
37	Running Capacitor	9704436023
38	Capacitor Clamp Metal	9351770013
39	Propeller Fan Assy	9366378013
41	Motor, Induct	9601671015
45-1	Motor Bracket	9371929019
45-2	Motor Bracket-Top	9371931012
45-3	Motor Bracket-Center	9371930015
45-4	Motor Bracket-Bottom	9371932019
46	Compressor Assy	9368175009
51	Special Nut M5	9300301015
55	Special Nut M8	9355091008
58	Suction Pipe-A	9372176078
64	Side Panel L	9371927015
69-3	Bolt, Hex. Socket	301210060360
85	Valve Plate Ptd	9371928012
107	Rubber Seat-A	9351049010
109	Terminal Cover (Comp)	9351048013
187	Clip (Cable)	9352715006
218-3	Relay	9900074012
259	Muffler	9372369012
271	4-Way Valve Rubber	313728251908
333	Accumulator	9368391003
334	Suction Pipe-B	9372175093
336	Suction Pipe-C	9372177013
343	Solenoid	9900165017
344	4-Way Valve	9970036019
361	Accum. Support Assy	9372252017
412	Cvr Gasket (Comp)	9351051013
527	Protection Net	9371934013
620	Inlet Pipe (Cond) Assy	9372185032
734	Top Panel	9371925011
754	Terminal Gasket Washer	9351053017
772	Joint Pipe (Valve)-A	9372178010
815-3	Terminal-8P	9358660119
821	Joint Pipe (Valve)-B	9372203033
823-2	Fuse Holder	0500063024
824-4	Fuse	0600222529
826	Condensing Pipe	9372194027
827	Capillary Assy	9372197103
910	Strainer-B	9365099018
989-1	Cord Clamp-A	9359822011
989-2	Cord Clamp-B	9359823018
990	Air Seal Plate	9372213018

STANDARD ACCESSORIES

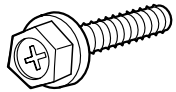
INDOOR UNIT

Name and Shape	Application	Part No.
Coupler heat insulation 	For indoor side pipe joint	9350716029
		9352766015
Special nut A (large flange) 	For installing indoor unit	313005446653
Special nut B (small flange) 	For installing indoor unit	313005446759
Template 	For ceiling hole cutting	9360256003
Remote control unit 	Use for air conditioner operation	9371190044 (Cooling model)
		9371190037 (Cooling & Heating model)
Battery (penlight) 	For remote control unit	0600185534
Remote control unit holder 	For mounting the remote control unit	9305642014
Tapping screw (ϕ 3 x 12) 	For remote control unit holder installation	301141533125

OUTDOOR UNIT

Name and Shape	Application	Part No.
Drain Pipe 	For outdoor unit drain piping work [Heat & Cool (Reverse cycle) model only]	9303029015

GRILLE ASSY

Name and Shape	Application	Part No.
Bolt 	For opening the refrigerant valve on the outdoor unit	0700139116
Washer 	For mounting grille	301801155020
Blower cover insulation 	For discharged air	9360047007