

SERVICE MANUAL

SPLIT TYPE AIR CONDITIONER

CASSETTE type (50Hz)

Models	Indoor unit	Outdoor unit
	AUG25ELB-W	AOG25EMBL
	AUY25ELB-W	AOY25EMBL
	AUG30ELB-W	AOG30EMBL
	AUY30ELB-W	AOY30EMBL

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

TYPE		COOLING	
MODEL	IN	AUG25ELB-W, AUJ25ELB-W	AUG30ELB-W, AUJ30ELB-W
	OUT	AOG25EMBL, AOY25EMBL	AOG30EMBL, AOY30EMBL
COOLING CAPACITY	kW	7.00 - 7.10	8.50

POWER SOURCE	V	220 - 240	230
	Hz	50	
RUNNING CURRENT (A)	COOL	12.8 - 13.2	15.0
INPUT WATTS (kW)		2.80 - 2.85	3.40
E.E.R (kW/kW)		2.50 - 2.49	2.50
STARTING CURRENT	A	61	93
MOISTURE REMOVAL	ℓ/h	2.50	

COMPRESSOR

TYPE		Hermetic type, 2 pole, Single phase, Induction motor	
CODE		NE44VNDMT	NH52VNHMT
REFRIGERANT R407C	g	2,100	2,450

FAN SPEED (r.p.m.)	INDOOR	HIGH	540	
		MED	480	
		LOW	390	
	OUTDOOR		730	
AIR FLOW	INDOOR	m³/h	1,200	
	OUTDOOR		3,320	
DIMENSIONS H x W x D (mm)	NET	IN	246 x 830 x 830	
		GRILLE	35 x 940 x 940	
		OUT	700 x 900 x 350	900 x 900 x 350
WEIGHT [NET/GROSS] (kg)		IN	34 / 44	
		OUT	70 / 82	79 / 91
MAX PIPE LENGTH/HEIGHT	m		25 / 15	
REMOTE CONTROLLER TYPE			WIRED	

FULL CHARGE AMOUNT

R407C

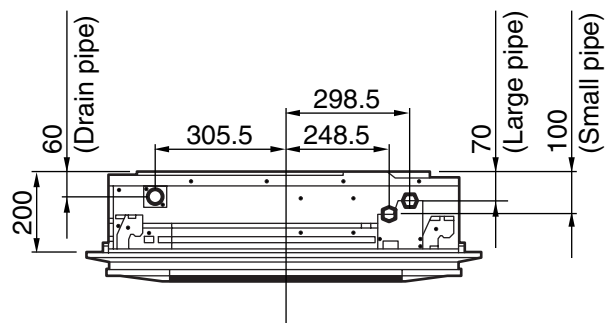
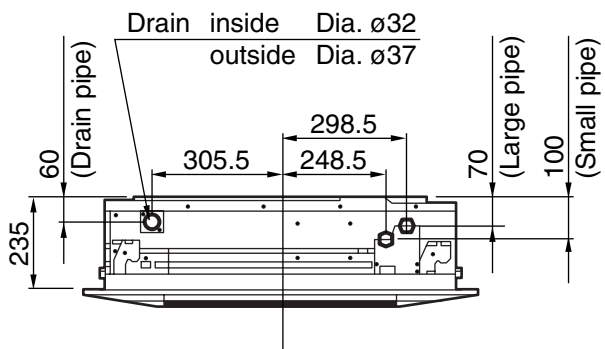
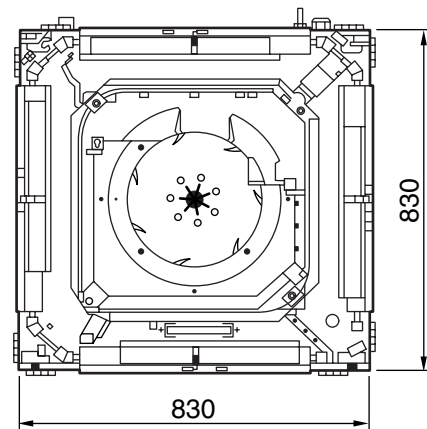
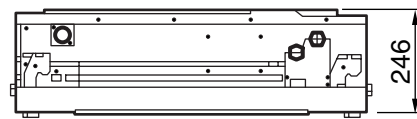
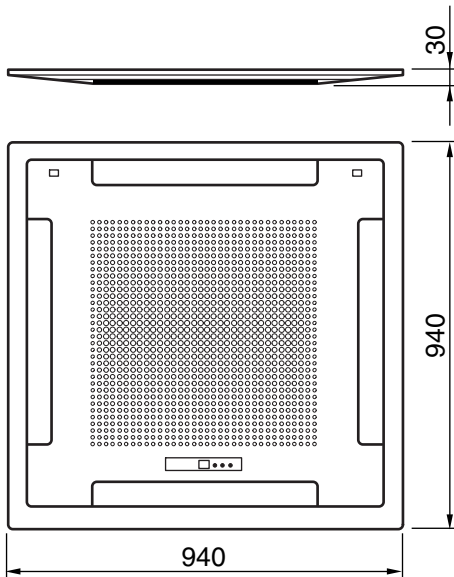
7.5m (25ft)	2100g (74.1oz)	2450g (86.4oz)
10.0m (33ft)	2100g (74.1oz)	2500g (88.2oz)
20.0m (66ft)	2100g (74.1oz)	2700g (95.2oz)
25.0m (82ft)	2100g (74.1oz)	2800g (98.8oz)
30.m (98ft)	-----	2900g (102.3oz)
Additional Charge	-----	20g/m (0.22oz/ft)
Chargeless	25.0m (82ft)	7.5m (25ft)
MAX PIPE LENGTH	25.0m (82ft)	30m (98ft)
MAX ELEVATION	15.0m (49ft)	15m (49ft)

TYPE		COOLING					COOLING & HEATING	
MODEL	IN	AUG30AGB-W, AU30AGB-W		AUG30ALD-W, AU30ALD-W		AUT30ALD-W	AUG30RLD-W, AU30RLD-W	AUT30RLD-W
	OUT	AOG30AMBL AOY30AMBL	AOG30AMBH AOY30AMBH	AOG30AMBL AOY30AMBL	AOG30AMBH AOY30AMBH	AOT30AMBL	AOG30RMBL, AOY30RMBL	AOT30RMBL
COOLING CAPACITY	kW	8.60 - 8.80				8.80	8.30 - 8.60	8.60
HEATING CAPACITY	kW	—					9.30 - 9.50	9.50

OUTLINE AND DIMENSIONS

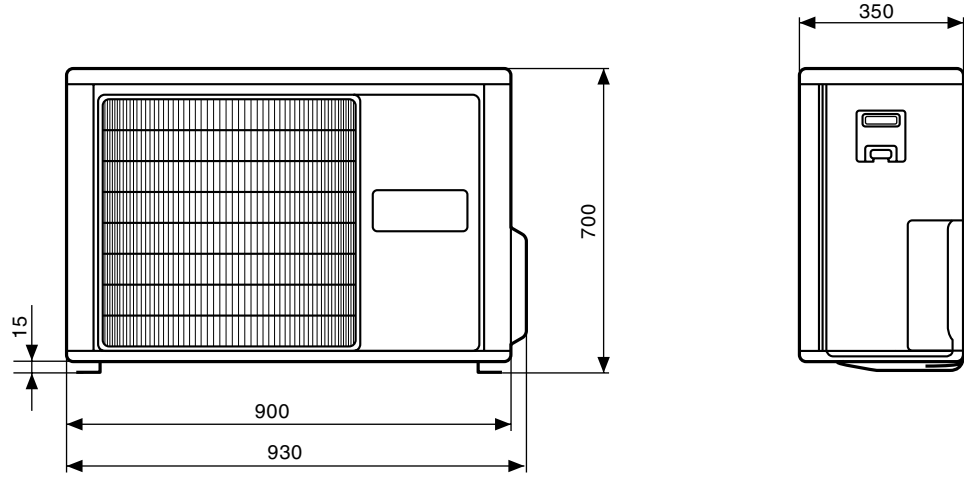
Models : AUG25ELB-W
AUY25ELB-W
AUG30ELB-W
AUY30ELB-W

Unit : (mm)

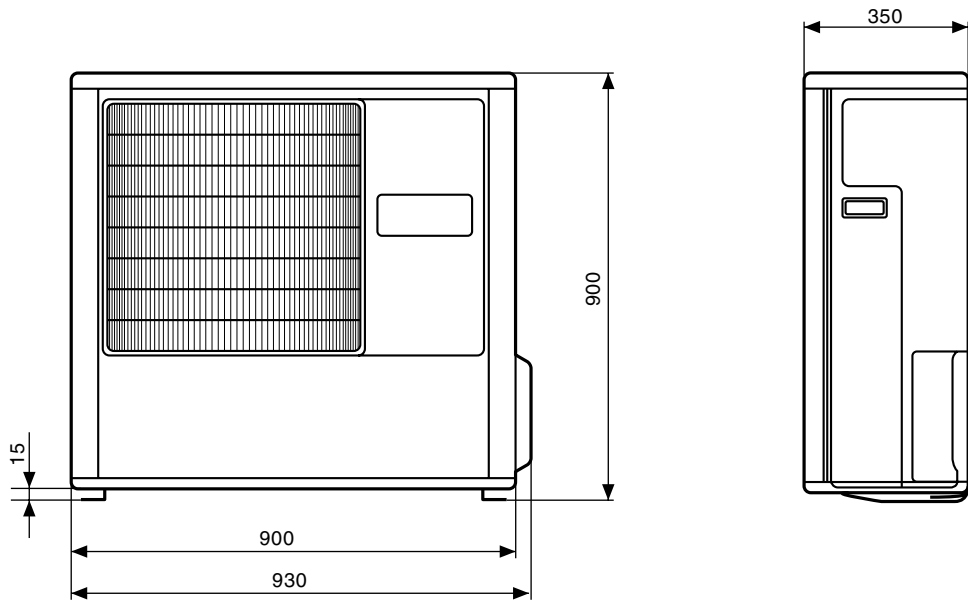


Unit : (mm)

**Models : AOG25EMBL
AOY25EMBL**

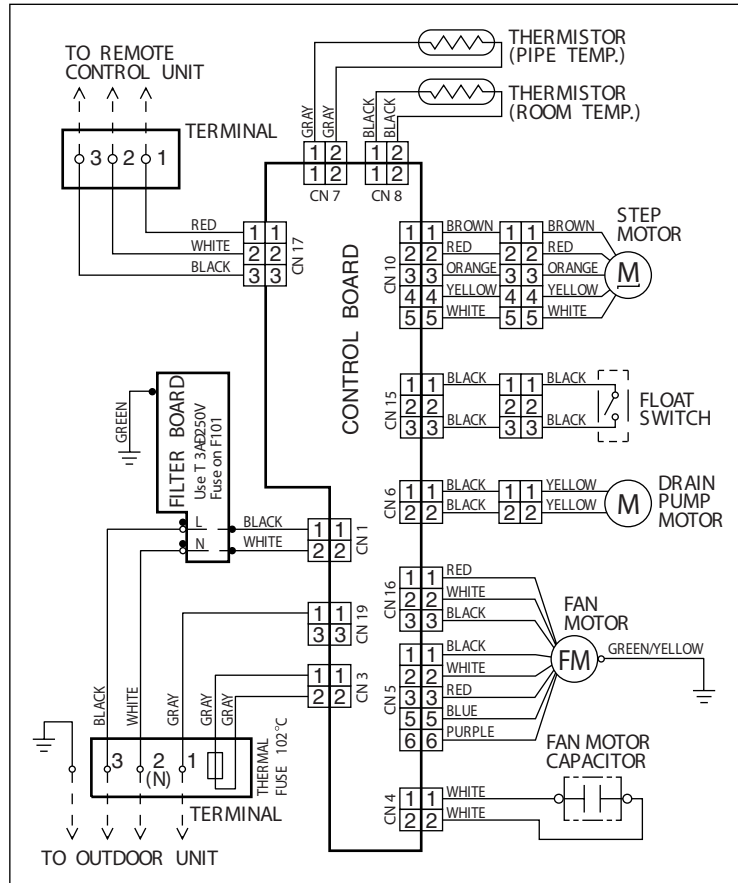


**Models : AOG30EMBL
AOY30EMBL**

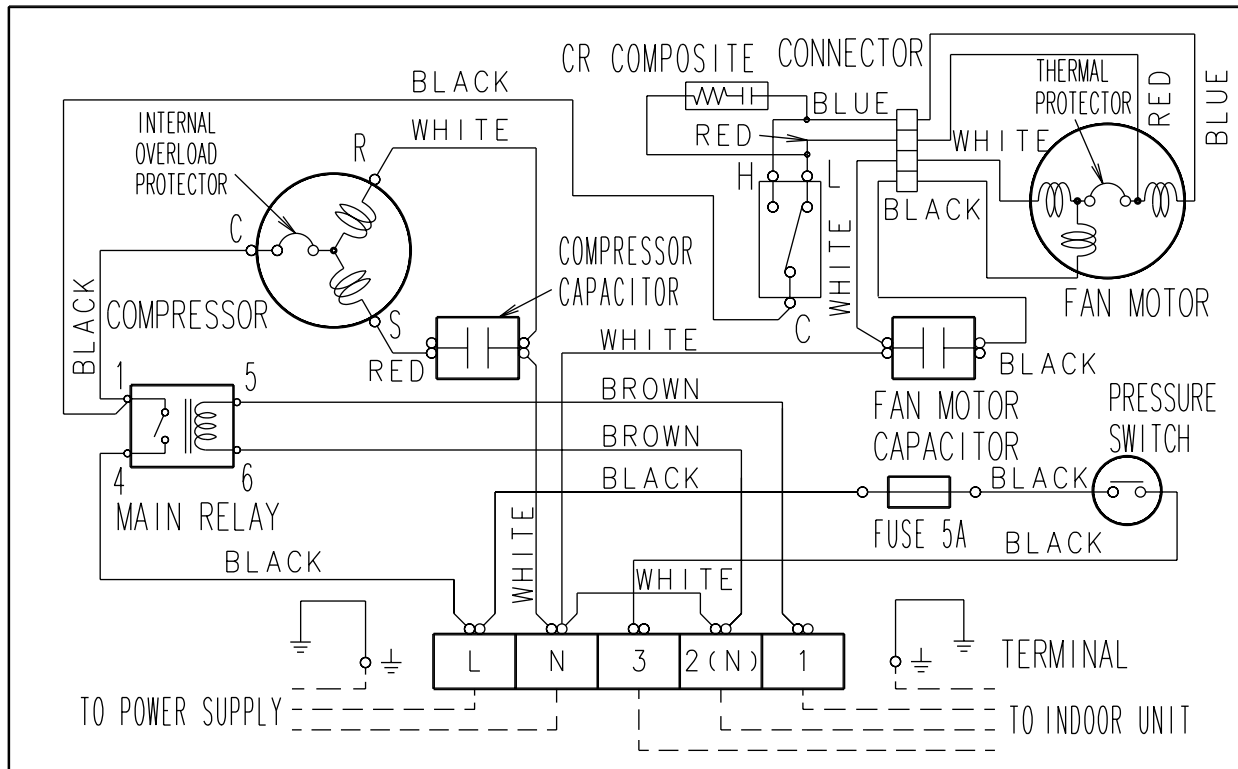


CIRCUIT DIAGRAM

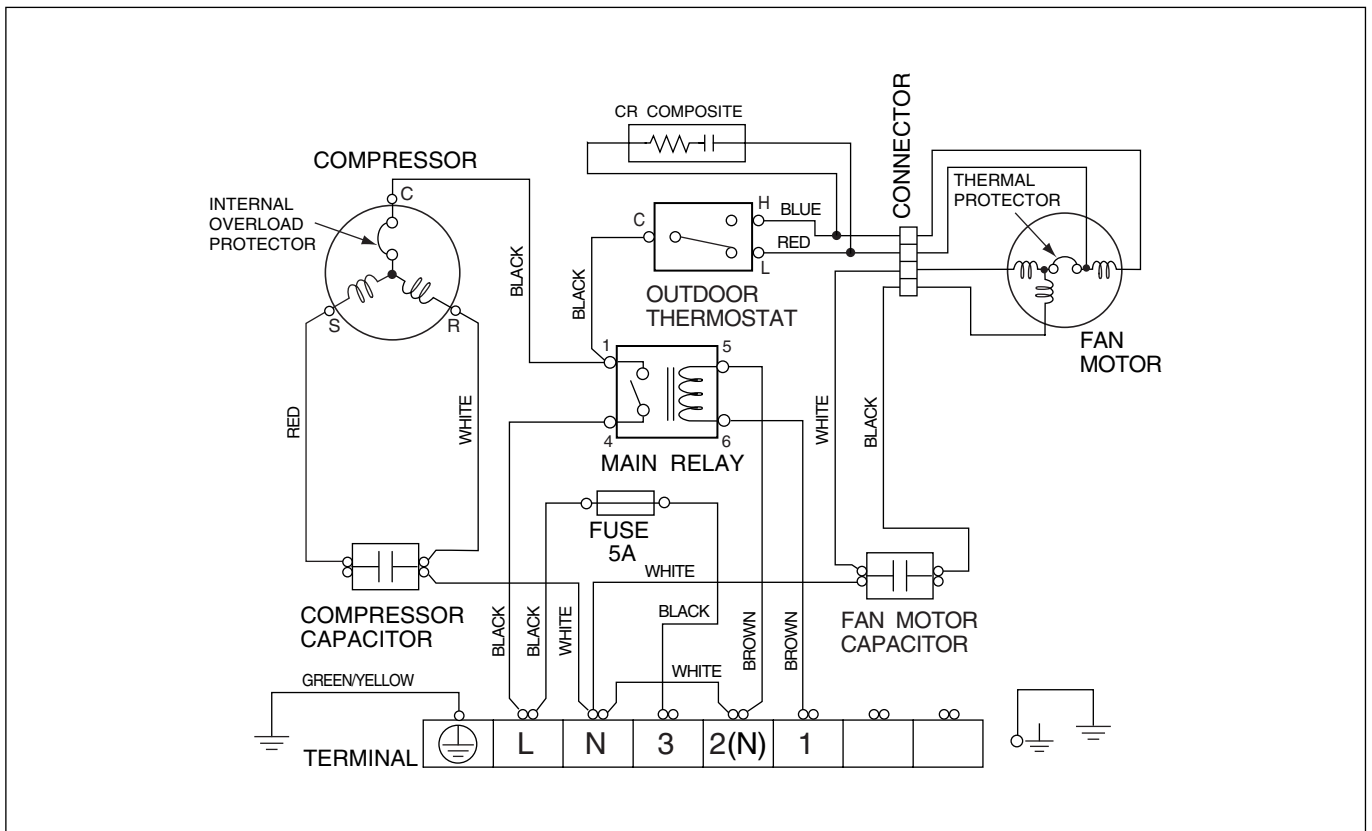
Models : AUG25ELB-W
AUG30ELB-W
AUY25ELB-W
AUY30ELB-W



**Models : AOG25EMBL
AOY25EMBL**

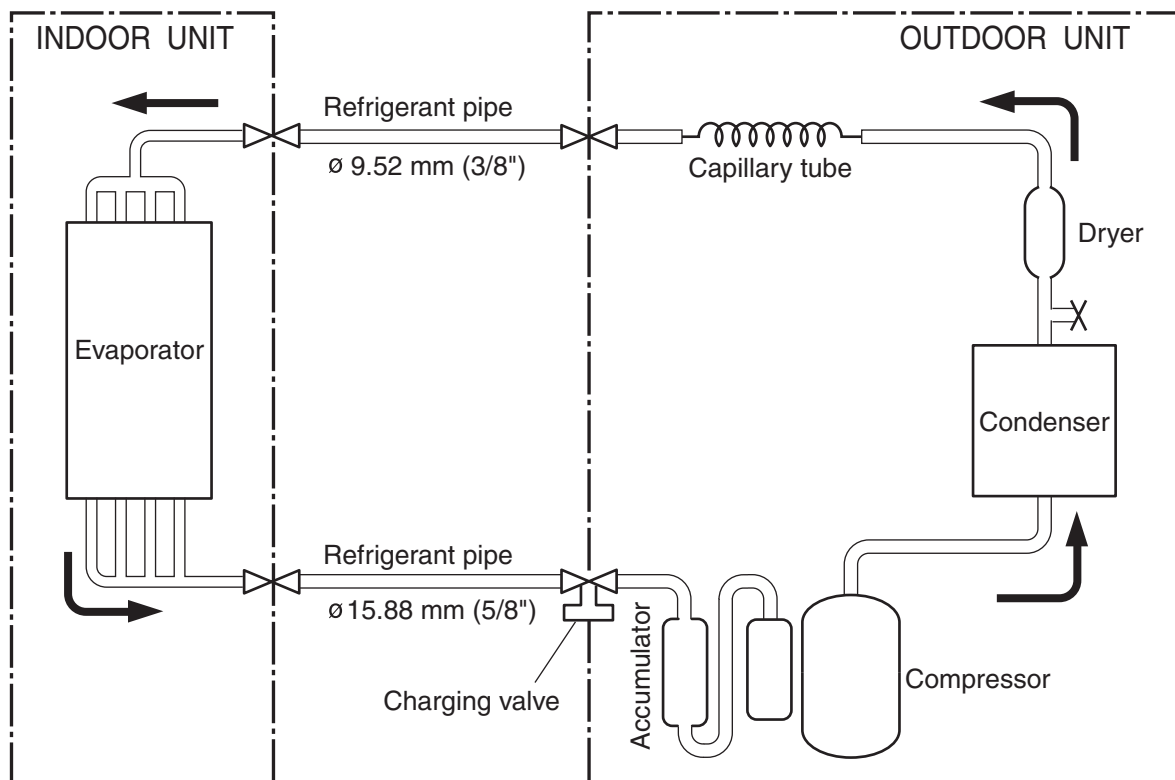


Models : AOG30EMBL, AOY30EMBL

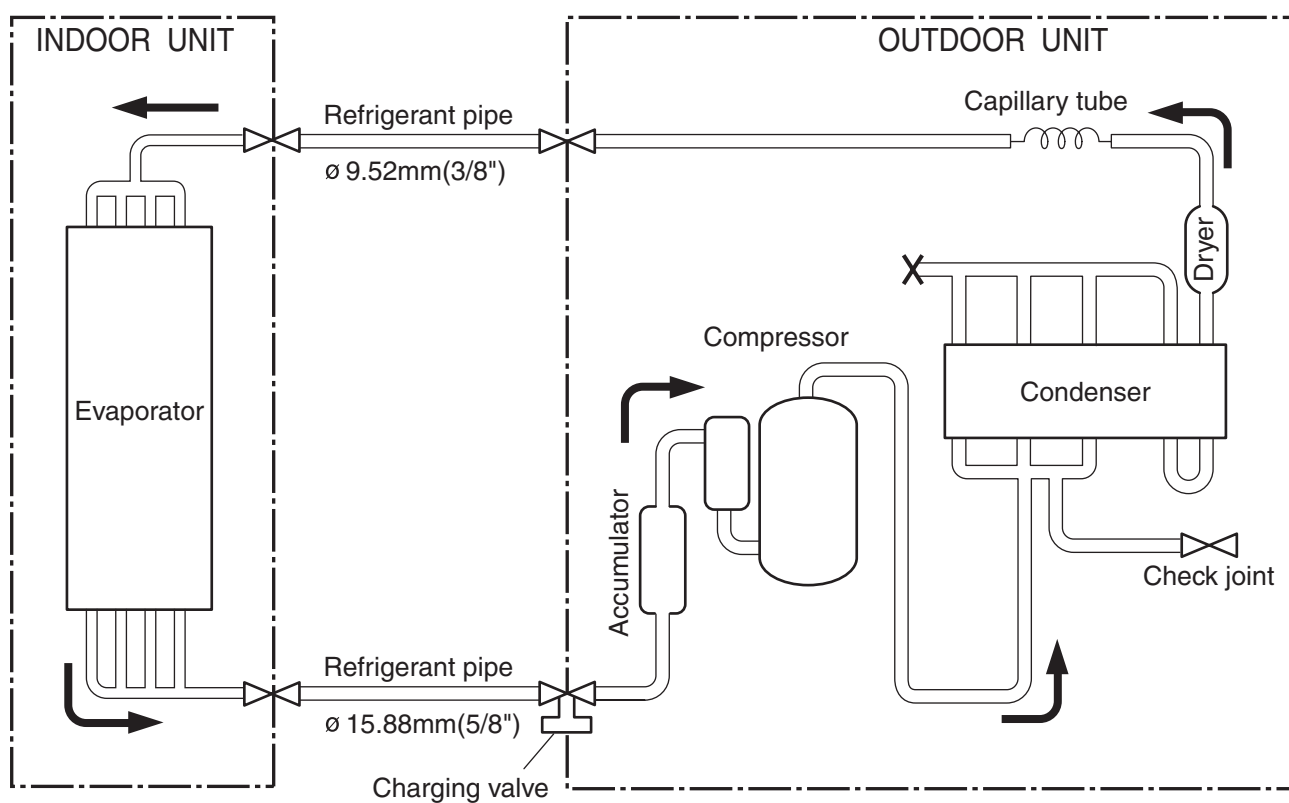


REFRIGERANT SYSTEM DIAGRAM

Models : AUG25ELB-W / AOG25EMBL, AUY25ELB-W / AOY25EMBL



Models : AUG30ELB-W / AOG30EMBL, AUY30ELB-W / AOY30EMBL



ERROR CONTENTS

WIRED REMOTE CONTROL MODELS

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 (Fig. 1). When the operation lamp lights, press the START/STOP button and after operation lamp goes off, perform the same operation (Fig. 1). Process the error contents by referring to (Table 1).

Fig. 1

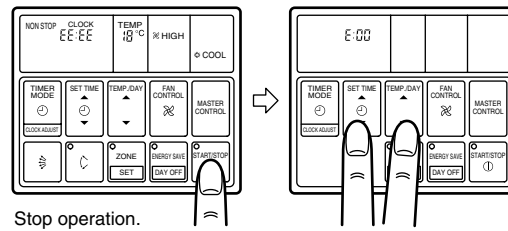


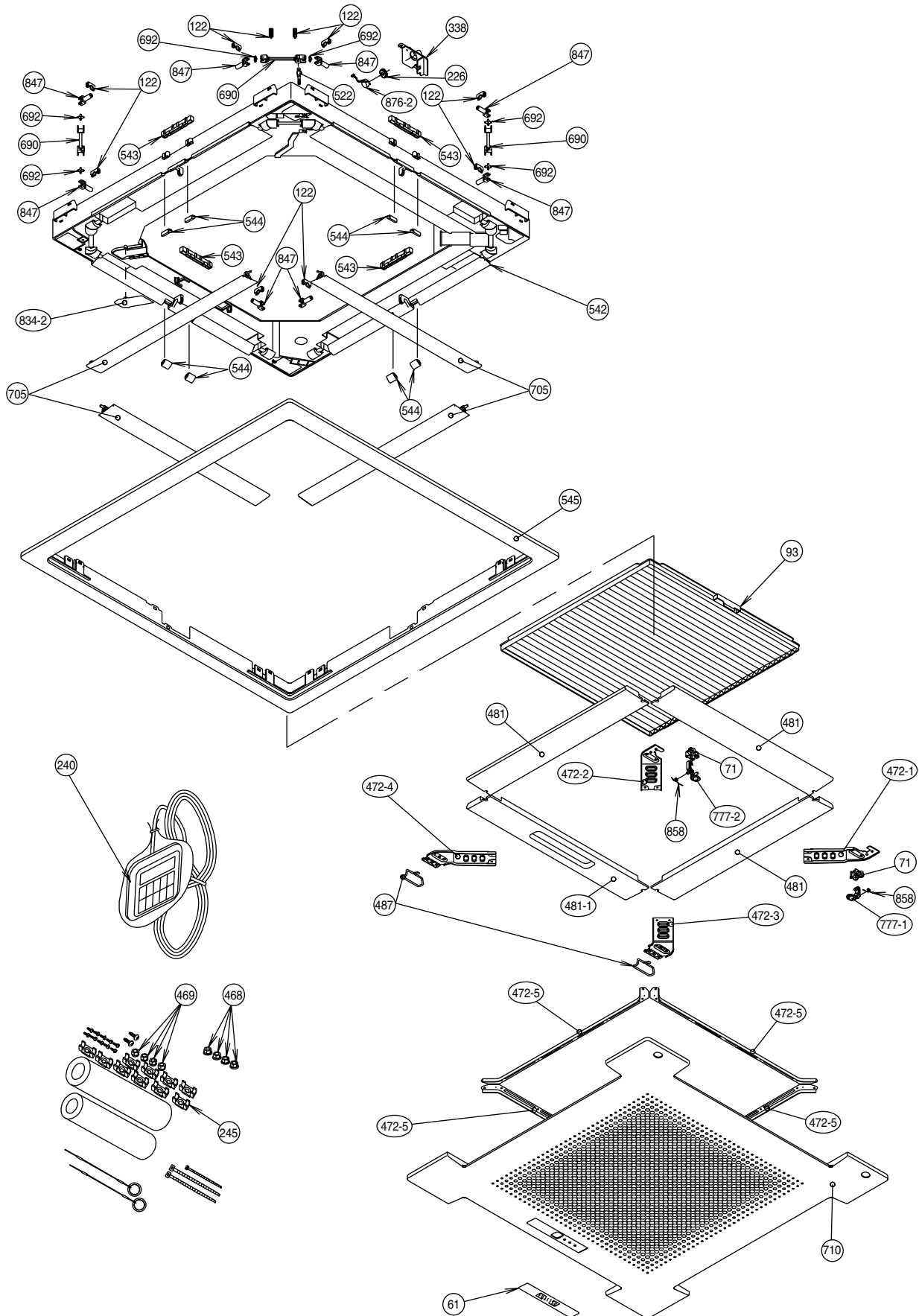
Table 1

Error cord	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 shortcircuited
E:04	Indoor heat exchanger temperature sensor open
E:05	Indoor heat exchanger temperature sensor shortcircuited
E:06	Outdoor heat exchanger temperature sensor open
E:07	Outdoor heat exchanger temperature sensor shortcircuited
E:08	Power source connection error
E:09	Float switch operated
E:0A	Outdoor temperature sensor open
E:0B	Outdoor temperature sensor shortcircuited
E:0C	Discharge pipe temperature sensor open
E:0D	Discharge pipe temperature sensor shortcircuited
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

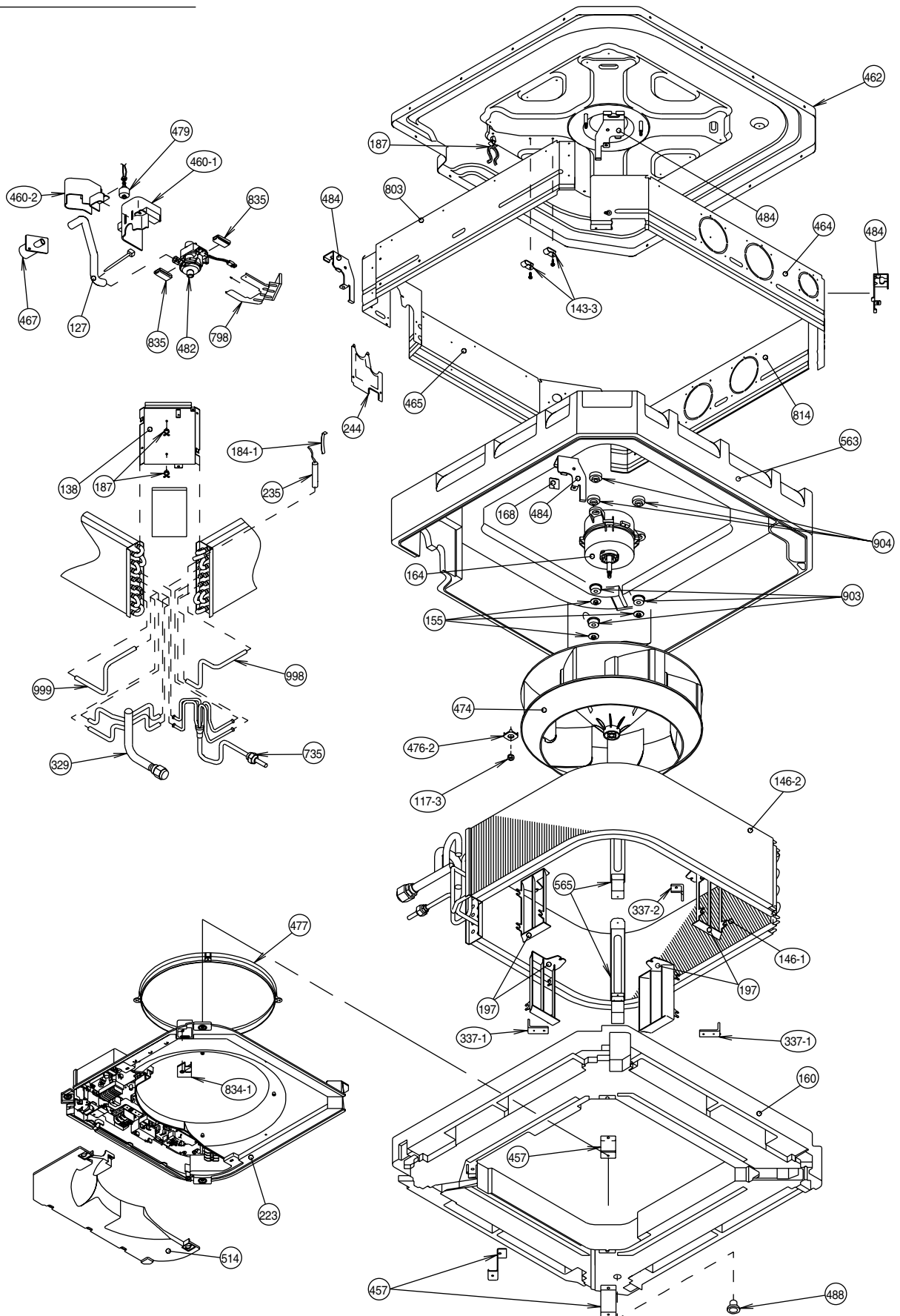
Models : AU □ 25ELB-W
AU □ 30ELB-W

DISASSEMBLY ILLUSTRATION

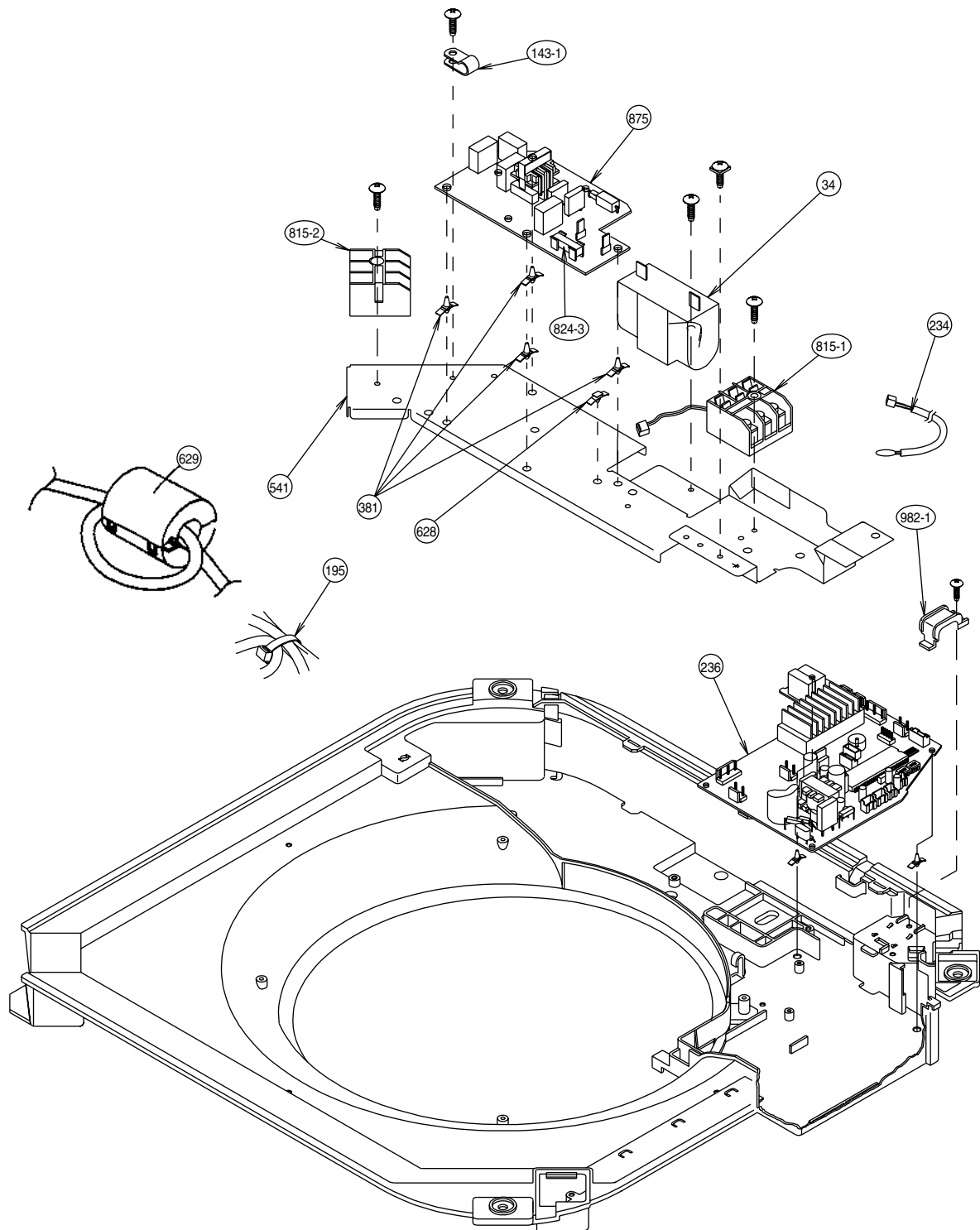
Models : AUG25ELB-W
AUY25ELB-W
AUG30ELB-W
AUY30ELB-W



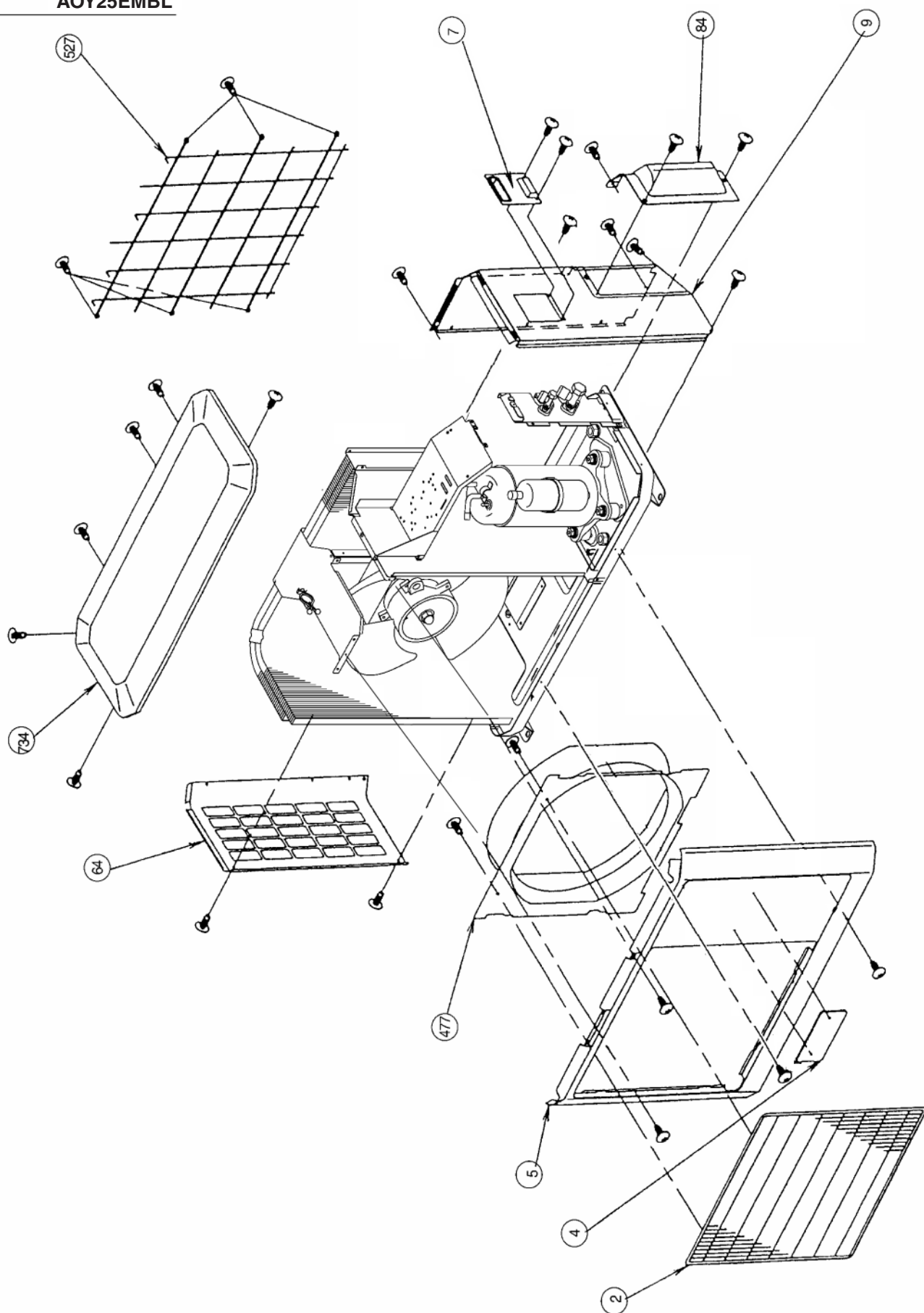
Models : AUG25ELB-W
 AUY25ELB-W
 AUG30ELB-W
 AUY30ELB-W

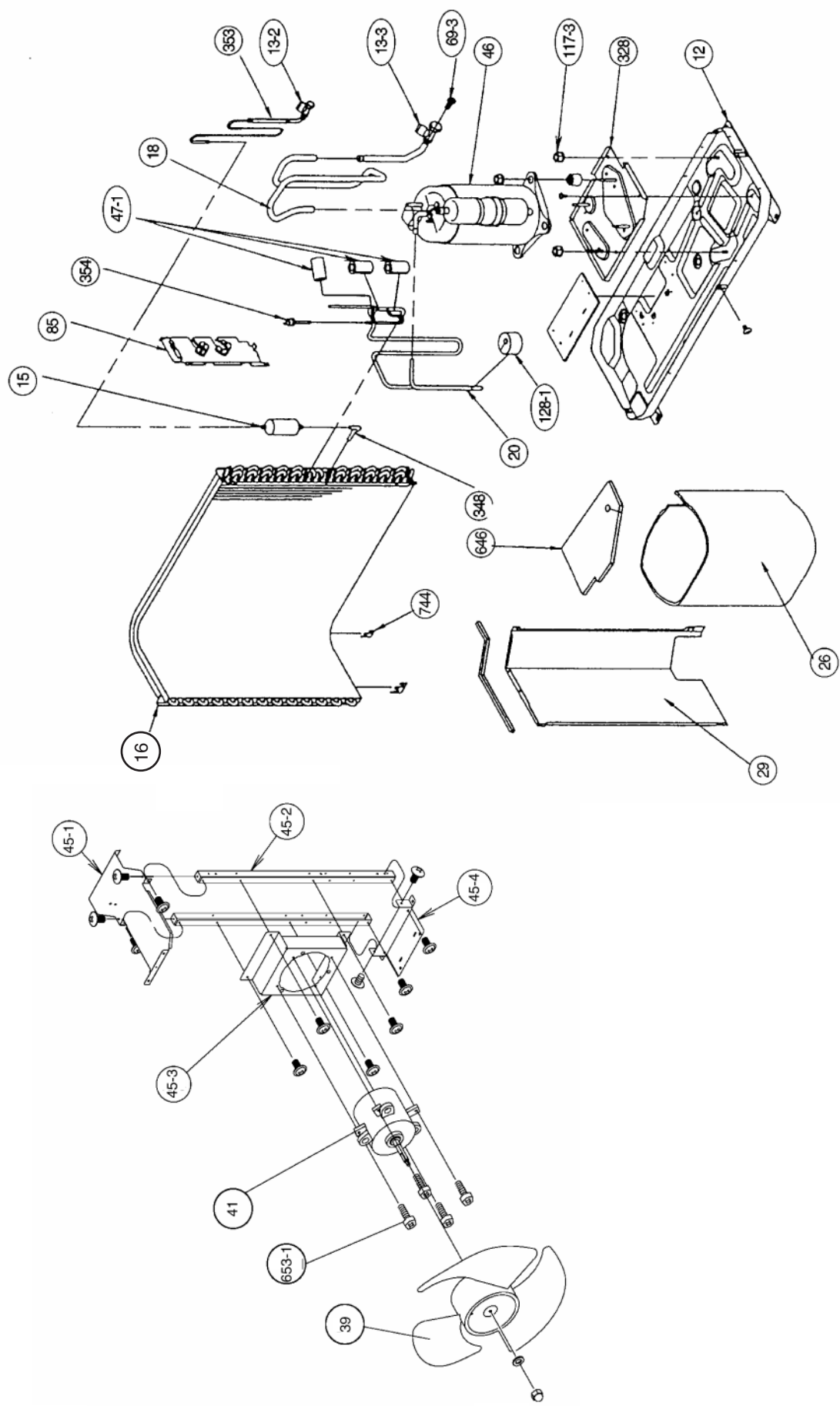


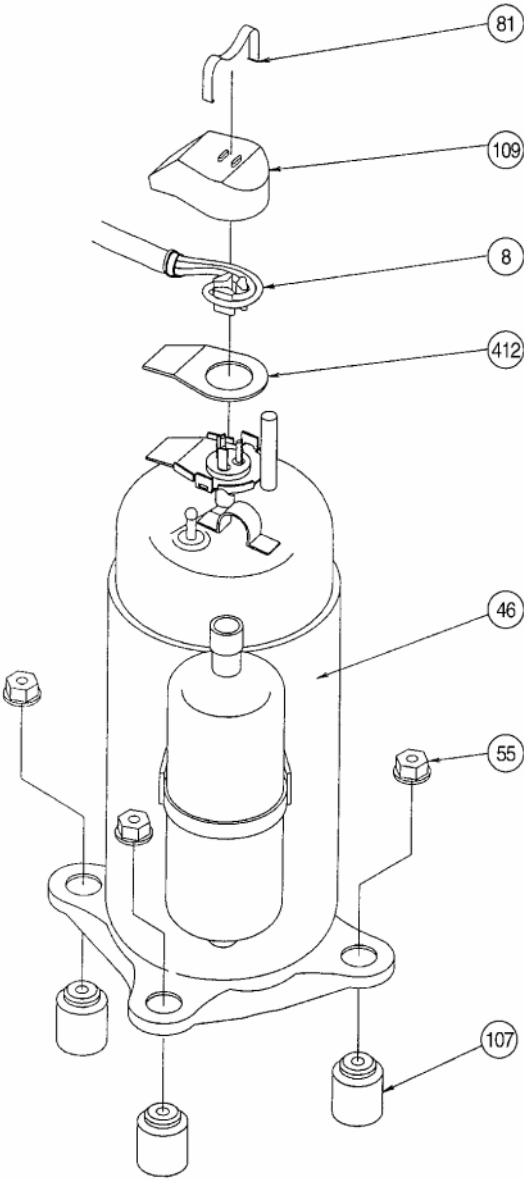
Models : AUG25ELB-W
AUY25ELB-W
AUG30ELB-W
AUY30ELB-W

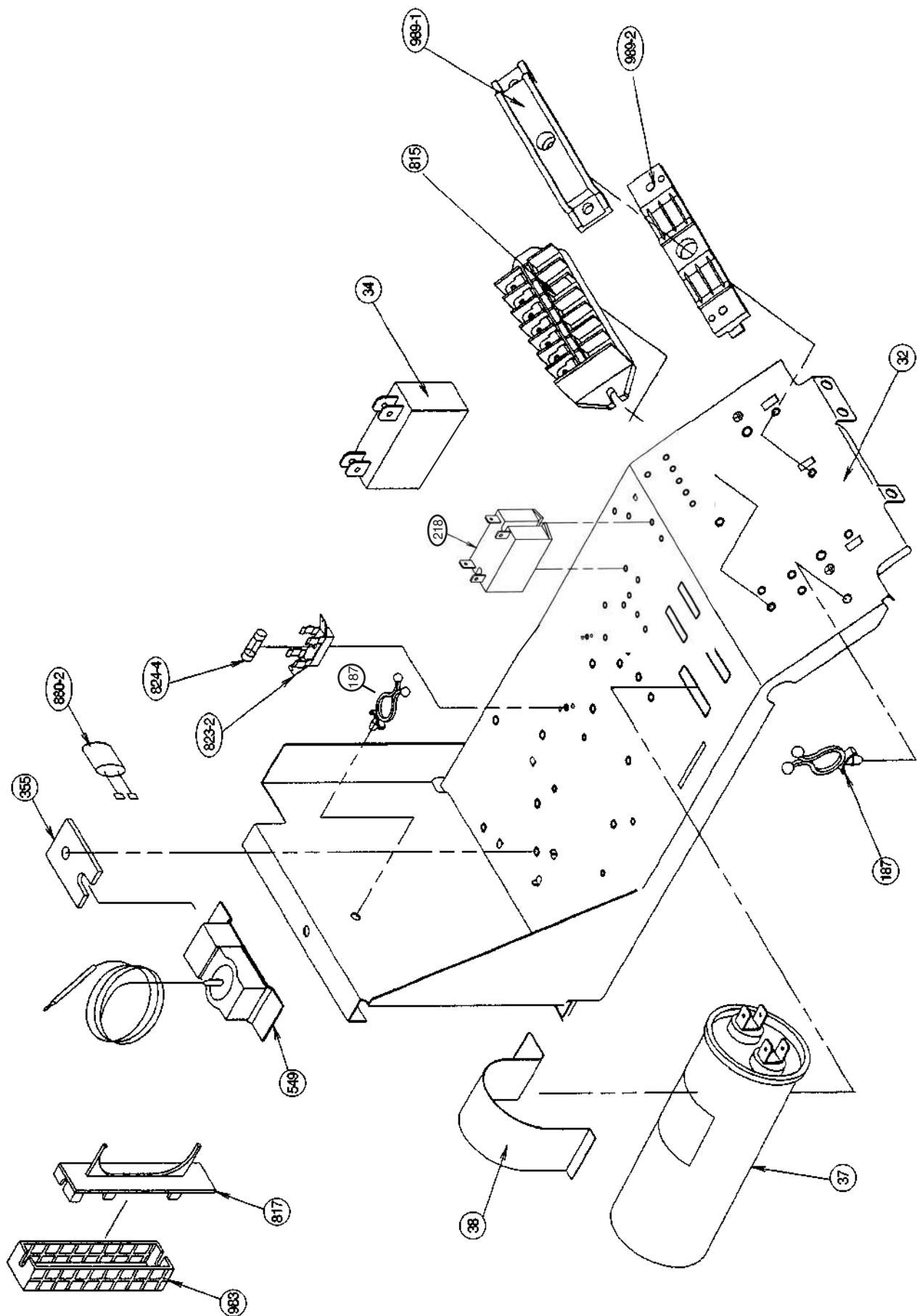


**Models : AOG25EMBL
AOY25EMBL**

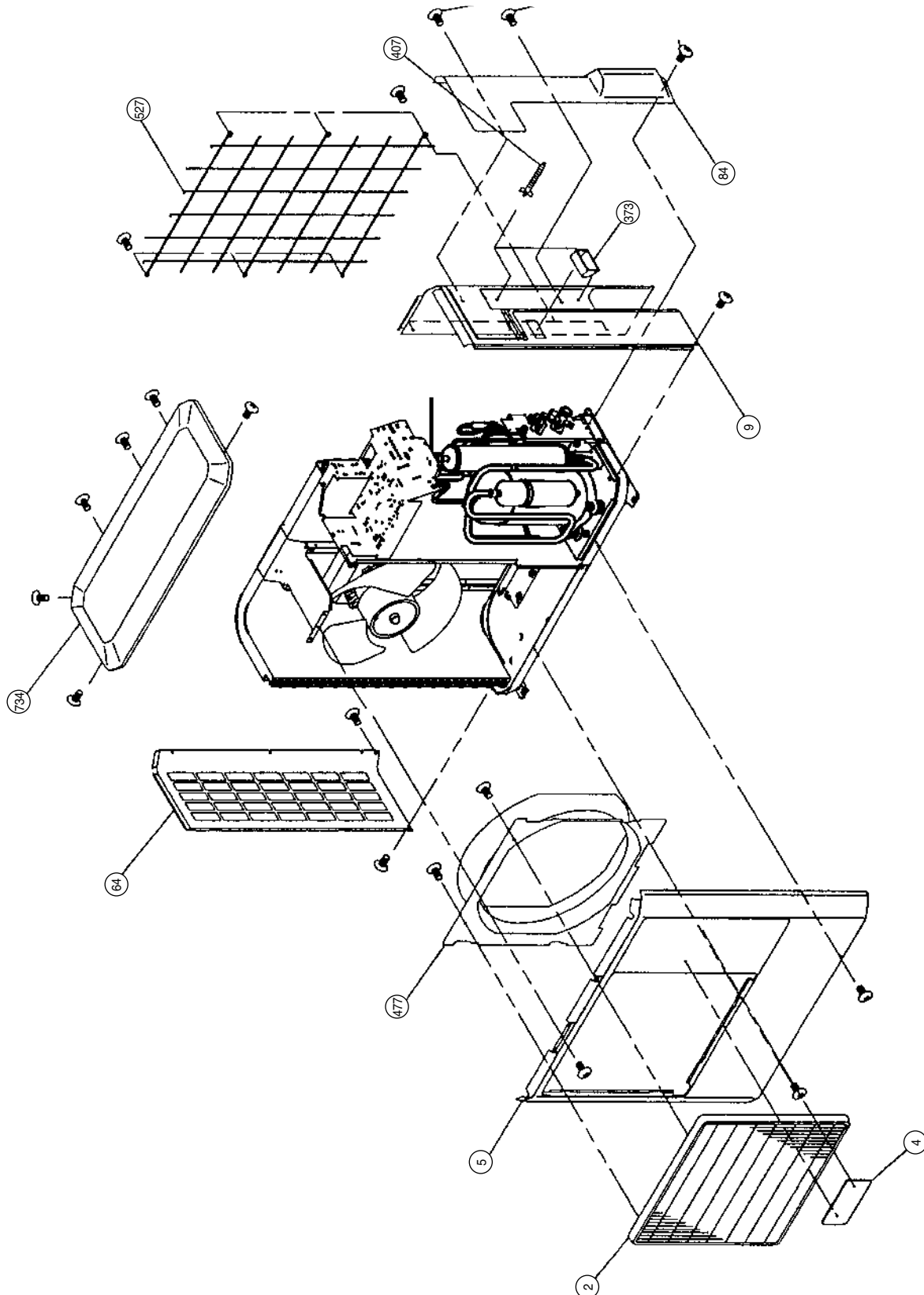




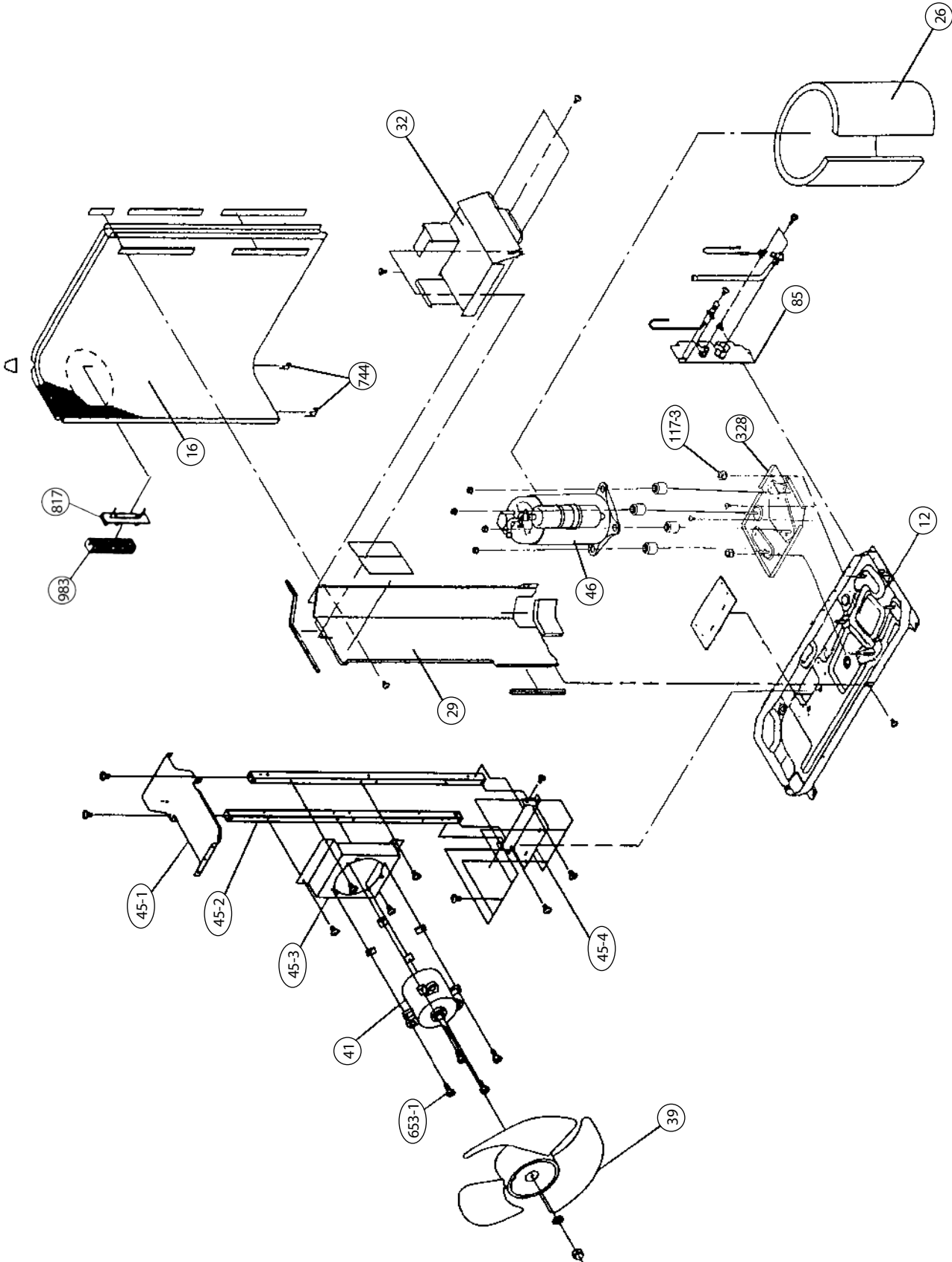




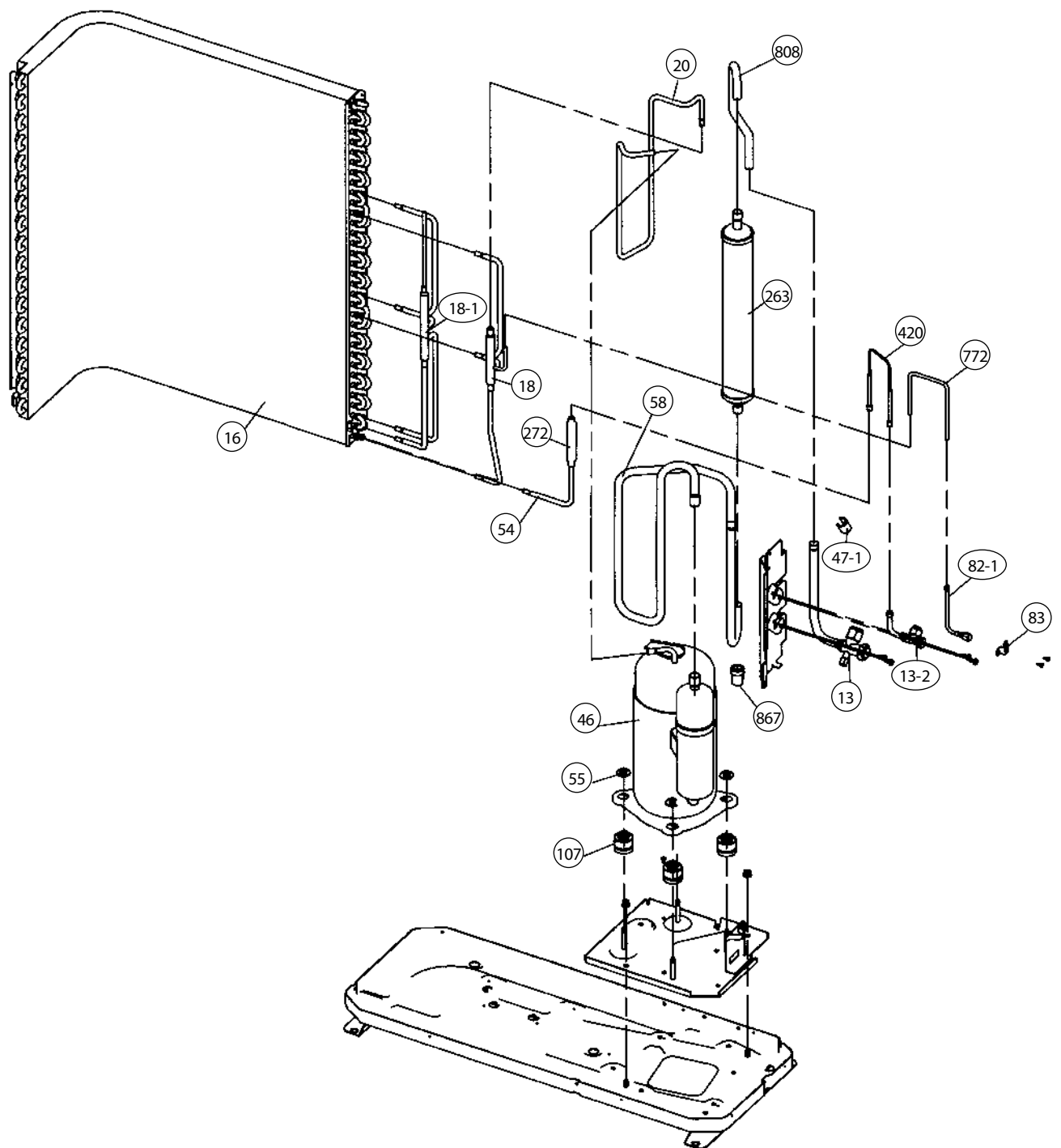
**Models : AOG30EMBL
AOY30EMBL**



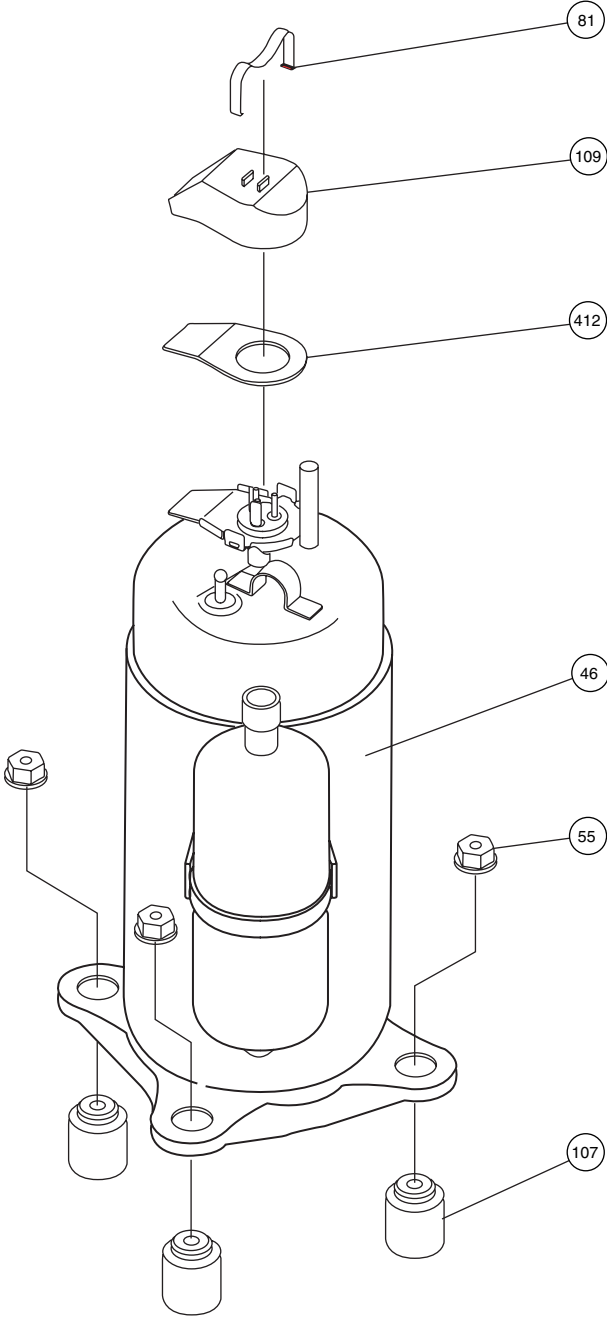
Models : AOG30EMBL
AOY30EMBL

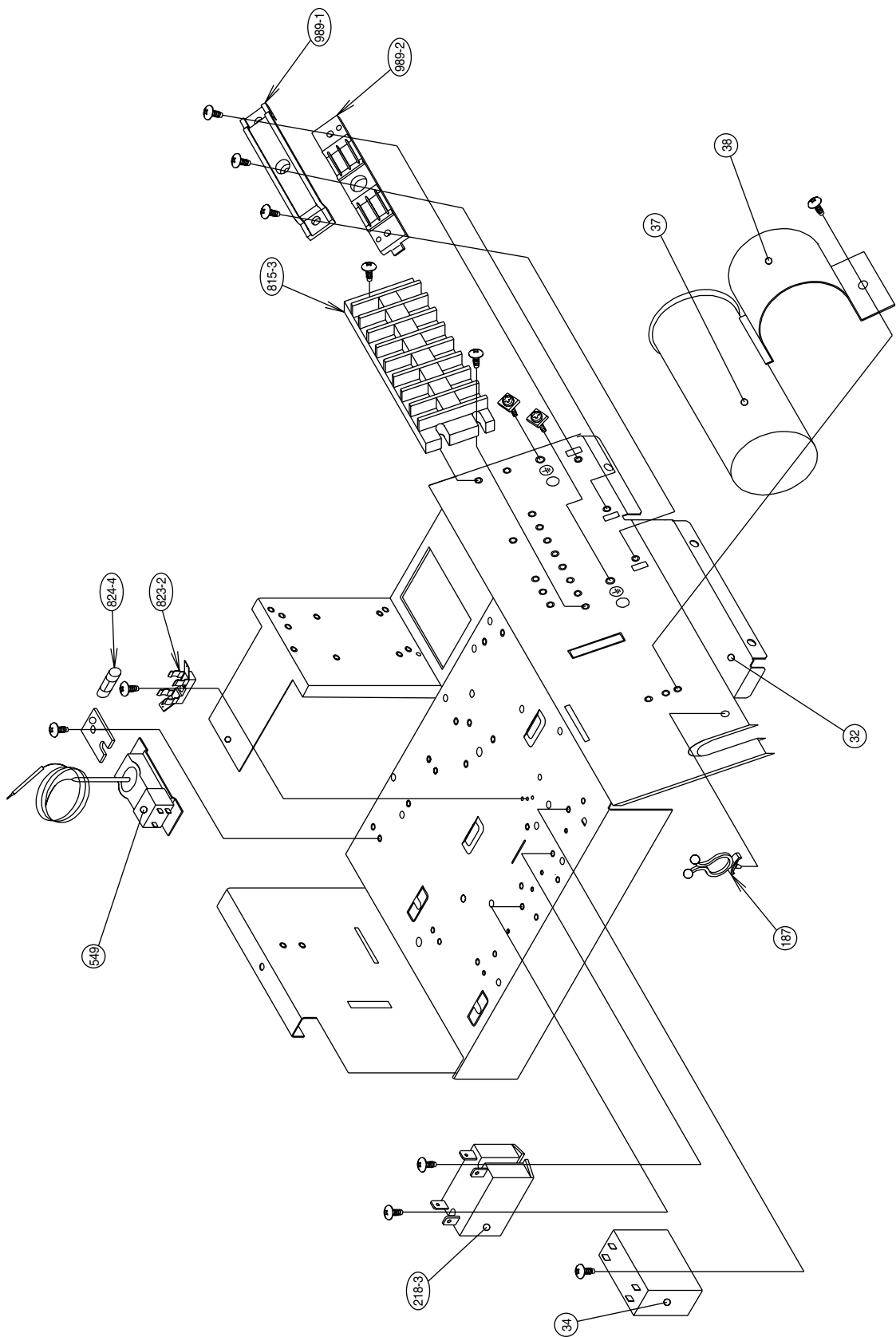


Models : AOG30EMBL
AOY30EMBL



Models : AOG30EMBL
AOY30EMBL





PARTS LIST

INDOOR UNIT

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

Ref. No.	Description	Part No.				Ord. Q'ty
		AUG25ELB-W	AUY25ELB-W	AUG30ELB-W	AUY30ELB-W	
34	Capacitor (Fan Motor)	9703306068	9703306068	9703306068	9703306068	
61	Decoration Plate	9363131000	9362787000	9363131000	9362787000	
71	Grille Hook Holder	9362782005	9362782005	9362782005	9362782005	
93	Filter	9362766005	9362766005	9362766005	9362766005	
117-3	Hex. Nut w/Spring Washer	301721180114	301721180114	301721180114	301721180114	
122	Louver Support Holder	9362799003	9362799003	9362799003	9362799003	
127	Drain Hose	9365074008	9365074008	9365074008	9365074008	
138	Separate Wall	9362793001	9362793001	9362793001	9362793001	
143-1	Clamp NK-3N	313361274700	313361274700	313361274700	313361274700	
143-3	Clamp NK-9N	313209399700	313209399700	313209399700	313209399700	
146	Evaporator Assy	9366939009	9366939009	-----	-----	
146-1	Evaporator-A Assy	-----	-----	9369827006	9369827006	
146-2	Evaporator-B Assy	-----	-----	9369828003	9369828003	
155	Special Nut M6	9307615016	9307615016	9307615016	9307615016	
160	Drain Pan Assy	9362804004	9362804004	9362804004	9362804004	
164	Fan Motor Assy-In	9601558019	9601558019	9601558019	9601558019	
168	Cabinet-E	9362735001	9362735001	9362735001	9362735001	
184-1	Thermostat Spring-A	313728262708	313728262708	313728262708	313728262708	
187	Clamp No.1219	313361271706	313361271706	313361271706	313361271706	
195	Clamp SKB-100	313361275805	313361275805	313361275805	313361275805	
197	Wind Guide Board	9363117004	9363117004	9363117004	9363117004	
223	Control Box	9362762007	9362762007	9362762007	9362762007	
226	Motor Gear	9362764001	9362764001	9362764001	9362764001	
234	Thermistor Assy-Room	9703299025	9703299025	9703299025	9703299025	
235	Thermistor Assy-Pipe	9703297014	9703297014	9703297014	9703297014	
236	Controller PCB Assy	9704557339	9704557339	9704557292	9704557292	
240	Remote Control Unit	9371438023	9371438023	9371438023	9371438023	
244	Pipe Cover	9362748001	9362748001	9362748001	9362748001	
245	Cable Clamp	313714181904	313714181904	313714181904	313714181904	
329	Coupling Pipe Assy	9365354001	9365354001	9368204006	9368204006	
337-1	Reinforcement (Eva.)-A	9362749008	9362749008	9362749008	9362749008	
337-2	Reinforcement (Eva.)-B	9362750004	9362750004	9362750004	9362750004	
338	Motor Holder	9362765008	9362765008	9362765008	9362765008	
381	Locking Spacer	313209391506	313209391506	313209391506	313209391506	
457	Reinforcement (Drain Pan)	9362757003	9362757003	9362757003	9362757003	
460-1	Pump Cover-A	9362775007	9362775007	9362775007	9362775007	
460-2	Pump Cover-B	9362776004	9362776004	9362776004	9362776004	
462	Top Cover Plate Assy	9362806022	9362806022	9362806022	9362806022	
464	Cabinet-A Assy	9362807012	9362807012	9362807012	9362807012	
465	Cabinet-B Assy	9362808019	9362808019	9362808019	9362808019	
467	Drain Port	9362786003	9362786003	9362786003	9362786003	
468	Special Nut-A (Large)	313005446653	313005446653	313005446653	313005446653	
469	Special Nut-B (Small)	313005446759	313005446759	313005446759	313005446759	
472-1	Grille Reinforcement-A	9362738002	9362738002	9362738002	9362738002	
472-2	Grille Reinforcement-B	9362739009	9362739009	9362739009	9362739009	
472-3	Grille Reinforcement-C	9362740005	9362740005	9362740005	9362740005	
472-4	Grille Reinforcement-D	9362741002	9362741002	9362741002	9362741002	
472-5	Grille Reinforcement-E	9362742009	9362742009	9362742009	9362742009	
474	Turbo Fan Assy	9362810012	9362810012	9362810012	9362810012	
476-2	Special Washer	9362756006	9362756006	9362756006	9362756006	
477	Bellmouth (B)	9362774000	9362774000	9362774000	9362774000	
479	Float Switch	9703285004	9703285004	9703285004	9703285004	
481	Insulation (Grille)-A	9362780001	9362780001	9362780001	9362780001	
481-1	Insulation (Grille)-B	9362781008	9362781008	9362781008	9362781008	
482	Pump Unit	9703125010	9703125010	9703125010	9703125010	
484	Hook	9362736008	9362736008	9362736008	9362736008	
487	Grille Hinge Wire	9362754002	9362754002	9362754002	9362754002	
488	Drain Pan Plug	313005174654	313005174654	313005174654	313005174654	
514	Control Box Cover	9362763004	9362763004	9362763004	9362763004	
522	Joint Gear	9362772006	9362772006	9362772006	9362772006	
541	Terminal Plate	9363642001	9363642001	9363642001	9363642001	

INDOOR UNIT (Continued)

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

Ref. No.	Description	Part No.				Ord. Q'ty
		AUG25ELB-W	AUY25ELB-W	AUG30ELB-W	AUY30ELB-W	
542	Panel Base	9362759014	9362759014	9362759014	9362759014	
543	Panel Frame Holder	9362761017	9362761017	9362761017	9362761017	
544	Panel Base Holder	9362760010	9362760010	9362760010	9362760010	
545	Panel Frame	9362758017	9362758017	9362758017	9362758017	
563	Insulation (Inner Box)	9362797009	9362797009	9362797009	9362797009	
565	Evaporator Holder Assy	9362802024	9362802024	9362802024	9362802024	
628	Locking Spacer-B	313005446558	313005446558	313005446558	313005446558	
629	EMI Filter	0400247074	0400247074	0400247074	0400247074	
690	Joint-A	9362773003	9362773003	9362773003	9362773003	
692	Joint Shaft	9362771009	9362771009	9362771009	9362771009	
705	Louver	9362769013	9362769013	9362769013	9362769013	
710	Intake Grille	9362767019	9362767019	9362767019	9362767019	
735	Distributor Assy	9365353004	9365353004	9368198008	9368198008	
777-1	Grille Hook-A	9362779012	9362779012	9362779012	9362779012	
777-2	Grille Hook-B	9362778015	9362778015	9362778015	9362778015	
798	Pump Hook Bracket	9362753005	9362753005	9362753005	9362753005	
803	Cabinet-D	9362792004	9362792004	9362792004	9362792004	
814	Cabinet-C	9362791007	9362791007	9362791007	9362791007	
815-1	Terminal-3P	9306489069	9306489069	9306489069	9306489069	
815-2	Terminal-3P	9703345012	9703345012	9703345012	9703345012	
824-3	Fuse	0600222512	0600222512	0600222512	0600222512	
834-1	Wire Cover-A	9362789004	9362789004	9362789004	9362789004	
834-2	Wire Cover-B	9362788007	9362788007	9362788007	9362788007	
835	Cushion Rubber (Pump)	9362777001	9362777001	9362777001	9362777001	
847	Louver Supporter	9362770019	9362770019	9362770019	9362770019	
858	Grille Spring	9362755009	9362755009	9362755009	9362755009	
875	Filter PCB Assy	9704561107	9704561107	9704561107	9704561107	
876-2	Step Motor	9360307019	9360307019	9360307019	9360307019	
903	Rubber (Vibration-proof) A	9364891002	9364891002	9364891002	9364891002	
904	Rubber (Vibration-proof) B	9364892009	9364892009	9364892009	9364892009	
982-1	Cord Clamp	9356857009	9356857009	9356857009	9356857009	
998	Bypass Pipe-A	9365360002	9365360002	9368207007	9368207007	
999	Bypass Pipe-B	9365361009	9365361009	9368208004	9368208004	

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OUTDOOR UNIT

Ref. No.	Description	Part No.				Ord. Q'ty
		AOG25EMBL	AOY25EMBL	AOG30EMBL	AOY30EMBL	
2	Fan Cover (Guard)	9371187013	9371187013	9371187013	9371187013	
4	Emblem-Rear	313791088308	9371388004	313791088308	9371388014	
5	Cabinet-A, Painted	9359797043	9359797043	9359797029	9359797029	
7	Connector Cover (Panel, Top)	9358011010	9358011010	-----	-----	
8	Wire Assy (Shield)-D	9359904052	9368405007	9366201007	-----	
9	Cabinet-B, Painted	9361323025	9361323025	9359798026	9359798026	
12	Base Assy, Painted	9359813019	9359813019	9359812029	9359812029	
13-2	2-Way Valve (3/8)	9362380003	9362380003	9362380003	9362380003	
13-3	3-Way Valve (5/8)	9362378000	9362378000	9366193005	9366193005	
15	Dryer	9369978036	9369978043	9369978036	-----	
16	Condenser	9362384001	9368385002	9366202004	9366202004	
18	Suction Pipe Assy	9363643008	9368024000	9366190004	9369064005	
18-1	Out let pipe(condenser)	-----	-----	9369054006	9369054006	
18-2	In let pipe(condenser)	-----	-----	9369048005	9369048005	
20	Discharge Pipe Assy	9362372008	9368393007	93701726008	9369047008	
26	Compressor Cover-A	9362394000	9368395001	9365270004	9369093005	
29	Separate Wall	9359805014	9359805014	9359804017	9359804017	
32	Control Box Metal	-----	-----	9359839019	9359839019	
32	Control Box Metal-A	9361409026	-----	-----	-----	
32	Control Box Assy	-----	9365086001	-----	-----	
34	Capacitor (Fan Motor)	9357965024	9357965024	9357965024	9357965024	
37	Running Capacitor	9703107122	9703107122	9703107023	9703107023	
38	Capacitor Clamp	9351770013	9365088005	9360610010	9360610010	
39	Propeller Fan	9359837015	9359837015	9359837015	9359837015	
41	Fan Motor Assy-Out	9600832011	9600832011	9600832011	9600832011	
45-1	Motor Bracket A	9369627002	9369627002	9369627002	9369627002	
45-2	Motor Bracket B	9371439013	9371439013	9369628009	9369628009	
45-3	Motor Bracket C	9369629006	9369629006	9369629006	9369629006	
45-4	Motor Bracket D	9369630002	9369630002	9369630002	9369630002	
46	Compressor Assy	9365380000	9365380000	9372023013	9372023013	
47-1	Rubber (Discharge Pipe)	313194159807	313194159807	313194159807	313194159807	
55	Special Nut M8 (For Comp.)	9355091008	9355091008	9355091008	9355091008	
64	Cabinet Left	9359840046	9359840046	9359840022	9359840022	
69-3	Bolt, Hexagon Socket	301210060360	301210060360	301210060360	301210060360	
81	Strap (For Comp.)	9362371001	9362371001	9362371001	9362371001	
82	Check Joint Assy	-----	-----	9369980008	9369980008	
83	Check Joint Bracket Metal	-----	-----	9359807018	9359807018	
84	Valve Cover	9361325012	9361325012	9359817017	9359817017	
85	Valve Fixing Plate Metal	9361324015	9361324015	9359806011	9359806011	
107	Rubber Mount (For Comp.)	9362368001	9362368001	9364084008	9364084008	
109	Terminal Cover (For Comp.)	9362369008	9362369008	9362369008	9362369008	
117-3	Hexagon Nut (Spring Lock Washer)	301721180114	301721180114	301721180114	301721180114	
128-1	Rubber (Discharge Pipe)	313155086308	313155086308	313155086308	313155086308	
187	Clamp No.1219	313361271706	313361271706	313361271706	313361271706	
218-3	Power Relay	9900074012	9900074012	9900074012	9900074012	
263	Accumulator			9385005006	9385005006	
272	Strainer			9369287008	9369287008	
328	Compressor Plate Assy	9362273015	9362273015	9362273046	9362273046	
348	Outlet Pipe (Cond.) Assy	9362386005	9362386005	-----	-----	

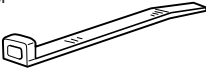
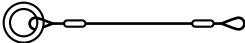
OUTDOOR UNIT (Continued)

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

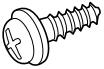
Ref. No.	Description	Part No.				Ord.
		AOG25EMBL	AOY25EMBL	AOG30EMBL	AOY30EMBL	Q'ty
353	Valve-A Assy	9362379007	-----	9366194002	9366194002	
354	Pressure Switch	9363259001	-----	-----	-----	
355	Switch Bracket	313986353607	-----	-----	-----	
373	Grip	-----	-----	9352157004	9352157004	
407	Clamp (Cable) No.1259	-----	-----	313739340109	313739340109	
412	Terminal Gasket (For Comp.)	9362370004	9362370004	-----	-----	
420	Capillary Assy			9370666004	9370666004	
477	Bellmouth	9359809012	9359809012	9359809012	9359809012	
527	Protection Net (Condenser)	9359845010	9359845010	9359844013	9359844013	
549	Thermostat-Outdoor	9352553004	9900037017	9352553004	9352553004	
646	Compressor Cover-B	9362395007	9368396008	9365271001	9365271001	
734	Cabinet Top Plate	9359799023	9359799023	9359799023	9359799023	
744	Clamp (Condenser)	313166374106	313166374106	313166374106	313166374106	
772	Jointpipe-A			9369060007	9369060007	
788	Thermistor-Discharge	-----	9900038021	-----	-----	
808	Inlet pipe(Accumulator)			9370666007	9370666007	
815	Terminal-5P	9356497021	9356497021	-----	-----	
815-3	Terminal-8P	-----	-----	9358660119	9358660119	
817	Thermostat Fixture	9352164019	-----	9352164019	9352164019	
823-2	Fuse Holder	0500063024	-----	0500063024	0500063024	
824-4	Fuse	0600222529	-----	0600222529	0600222529	
867	Accumulator Holder Rubber	-----	9354022010	-----	-----	
880-2	Network	9701020010	-----	9701020010	9701020010	
983	Thermostat Cover	9358274002	-----	9358274002	9358274002	
989-1	Cord Clamp-A	9359822011	9359822011	9359822011	9359822011	
989-2	Cord Clamp-B	9359823018	9359823018	9359823018	9359823018	
A	Thermistor-Heat	-----	9900043025	-----	-----	

STANDARD ACCESSORIES

INDOOR UNIT ACCESSORIES (AUG25ELB-W, AUY25ELB-W) (AUG30ELB-W, AUY30ELB-W)

Name and Shape	Part No.	
	AUG25ELB-W, AUY25ELB-W AUG30ELB-W, AUY30ELB-W	
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 	9371438023	
Template 	9363173000	
Blower cover insulation 	9363265002	
Hook wire 	9363168006	

OUTDOOR UNIT ACCESSORIES

Name and Shape	Q'ty	Application	Parts No.	
			AOG25EMBL AOY25EMBL	AOG30EMBL AOY30EMBL
Hexagon wrench 	1	For opening the refrigerant valve on the outdoor unit	9351228019	9351228019
Cable clip 	2	For power cord binding	—	313739340109
Tapping screw 	2	• For cabinet A and cabinet D mounting (1) • Spare (1)	—	301463040100

