



Room Air Conditioner

SVC MANUAL(Exploded View)

MODEL : AS-W1838*H0 (LAN185HV / LAU185HV)
AS-W2438*H0 (LAN245HV / LAU245HV)

CAUTION

Before Servicing the unit, read the safety precautions in General SVC manual.
Only for authorized service personnel.

1. Specification

Models			AS-W1838RH0 [LA185HV]	AS-W2438RH0 [LA245HV]
Cooling Capacity		kW	1.76~5.28~5.80	3.87~7.03~7.74
		Btu/h.	6,005~18,000~19,790	13,200~24,000~26,400
Heating Capacity		kW	1.40~6.07~6.65	3.37~8.09~8.88
		Btu/h.	4,776~20,700~22,690	11,500~27,600~30,300
Power Input	Cooling/Heating	W	1,675/1,770	2,450/2,900
Running Current	Cooling/Heating	A	7.3/8.3	11.0/13.0
Starting Current	Cooling/Heating	A	7.3/8.3	11.0/13.0
EER		W/W	3.15	2.87
		Btu/h.W	10.75	9.8
COP		W/W	3.43	2.79
Power Supply		Ø / V / Hz	1/208-230/60	1/208-230/60
Power Factor		%	98	97
Air Flow Rate	Indoor,Max	m3/min(CFM)	18.5(650)	20.3(717)
	Outdoor,Max	m3/min(CFM)	42(1,483)	58(2,048)
Moisture Removal		l/h.	2.1	2.7
Sound Level	Indoor,H/M/L	dB(A)+3	40/38/34	45/40/37
	Outdoor,Max	dB(A)+3	53	54
Refrigerant & Additional	Charge (at 7.5 m)	g(oz)	R410A, 1,200(42)	R410A, 1,800(63.5)
Compressor	Refrigerant charge	g(m/oz/ft)	20(0.22)	30(0.32)
	Type		Rotary	Rotary
	Model		5CS130XCA03	5KD240XCA21
	Motor Type		BLDC	BLDC
	Oil Type		RB68A	FV50S
	Oil Charge	cc	360	900
	O.L.P. name		-	-
Fan(Indoor)	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output	W	20	24
Fan(Outdoor)	Type		Propeller	Propeller
	Motor Type		AC Induction	AC Induction
	Motor Output	W	79	79
Circuit Breaker*		A	20	25
Power Supply Cable		NEC	14	12
Power and Transmission		NEC	18	18
Piping Connections	Liquid Side	mm(in)	6.35(1/4)	9.52(3/8)
	Gas Side	mm(in)	12.7(1/2)	15.88(5/8)
Drain Hose	O.D., I.D.	mm(in)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)
Dimensions	Indoor (W*H*D)	mm	1,107*299*200	1,107*299*200
		inch	43.6*11.8*7.9	43.6*11.8*7.9
	Outdoor (W*H*D)	mm	870*655*320	870*800*320
		inch	34.3*25.8*12.6	34.3*31.5*12.6
Net Weight	Indoor	kg(lbs)	14.1(31.1)	14.1(31.1)
	Outdoor	kg(lbs)	46(101.4)	60(132.3)
Operation Range	Cooling(Outdoor)	°C(°F)	-10 ~ 46 (14.0~114.8)(Low Ambient)	-10 ~ 46 (14.0~114.8)(Low Ambient)
	Heating(Outdoor)	°C(°F)	-10 ~ 24 (14.0 ~ 75.2)	-10 ~ 24 (14.0 ~ 75.2)
Max. Piping Length		m(ft)	15(49)	30(98)
Max. Elevation Difference		m(ft)	7(23)	15(49)
Tool Code(Chassis)	Indoor + Outdoor		S8 + UE	S8 + UE1
Functions	Temperature Control		Thermistor	Thermistor
	Plasma Filter		NEO	NEO
	Prefilter(washable/anti-fungus)		O	O
	Auto Clean		O	O
	CHAOS Wind(Auto Wind)		O	O
	Steps, Fan/Cool/Heat		3/4/4	3/4/4
	Airflow Direction Control(up & Down)		Auto	Auto
	Airflow Direction Control(left & right)		Auto	Auto
	Remote Controller Type		Wireless LCD	Wireless LCD
	Setting Temperature Range	Cooling	18 ~ 30 (64~86)	18 ~ 30 (64~86)
		Heating	16 ~ 30 (60~86)	16 ~ 30 (60~86)
	Auto Operation (Micom Control)		-	-
	Auto Changeover (Micom Control)		O	O
	Self Diagnosis		O	O
	Timer		24h On/Off	24h On/Off
	Sleep Operation		O	O
	Soft Dry Operation		O	O
	Restart Delay(minute)		2	2
	Deice Control(Defrost)		O	O
	Hot Start		O	O
	Jet Cool / Heat		O/O	O/O
	Low Ambient Operation		O	O
	Special Function		-	-
	Dry Contact		-	-
	Network Solution		-	-
	PI485		-	-

Note:

O : Applied, - : No relation

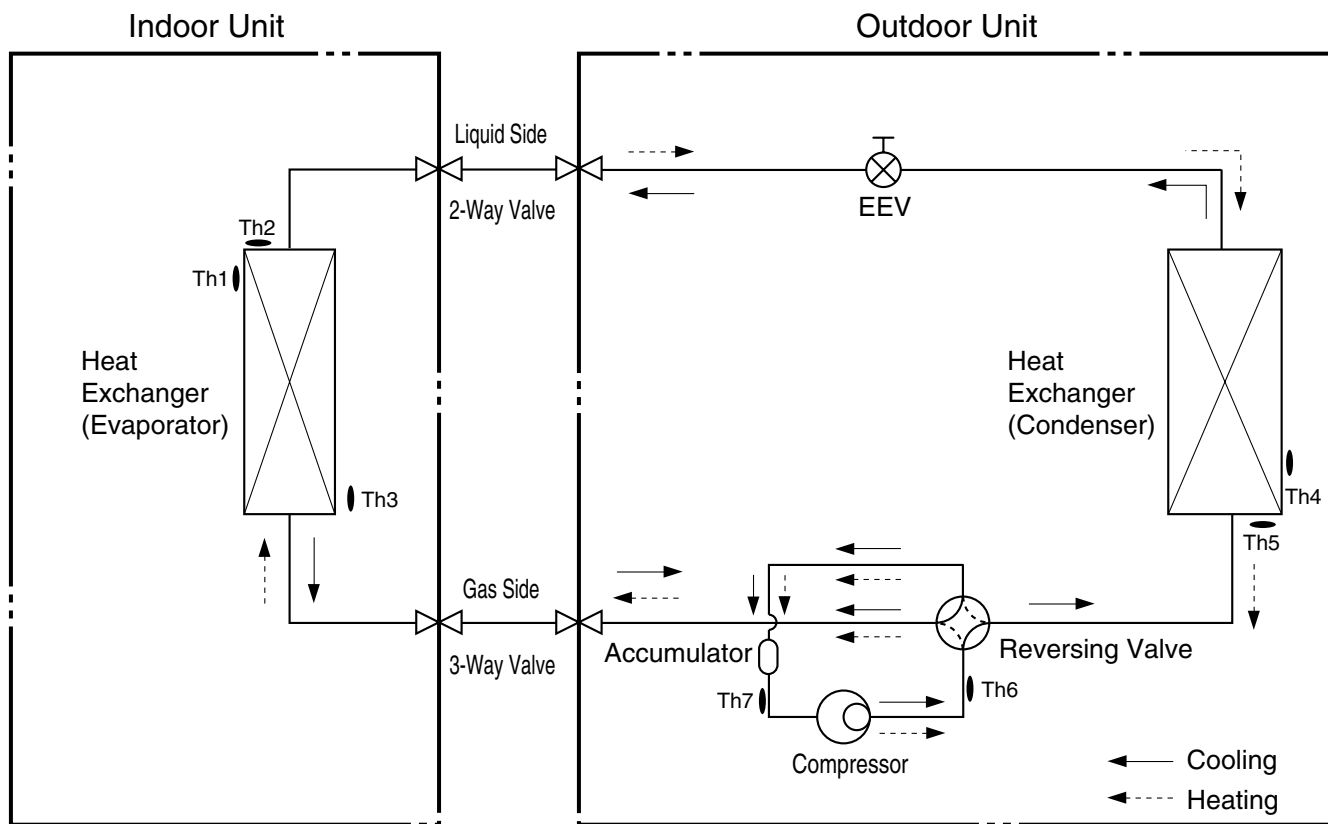
* For circuit breaker rating, please conform to local standards wherever necessary.

* Some of functions are slightly different depending upon models.

* The specification may be subject to change without prior notice for purpose of improvement.

* Capacity : based on 230V

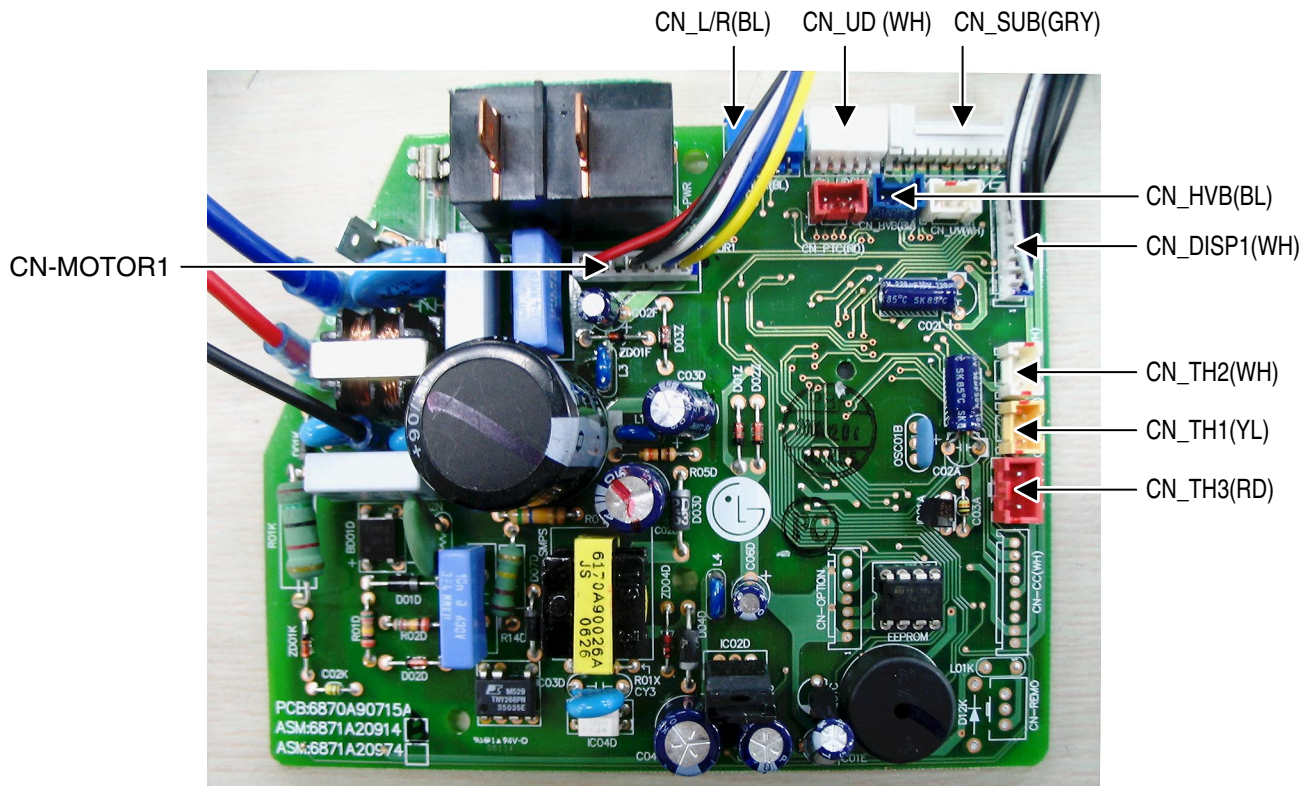
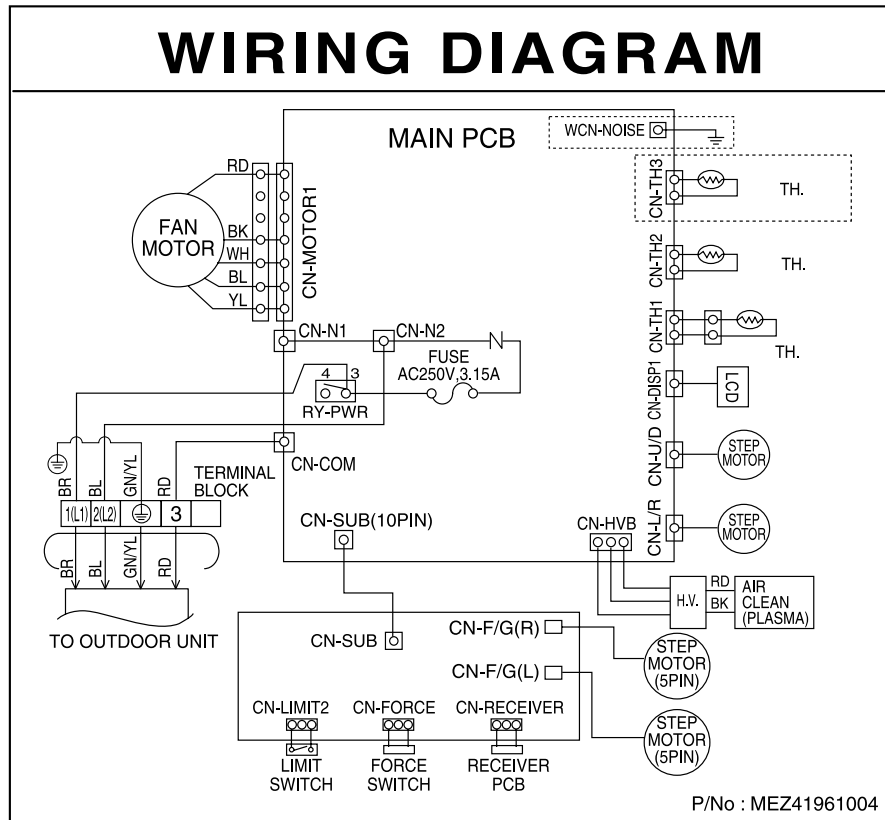
2. Piping Diagrams



LOC.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN_TH1(INDOOR)
Th2	Thermistor for evaporating temperature	CN_TH2(INDOOR)
Th3		CN_TH3(INDOOR)
Th4	Thermistor for outdoor air temperature	CN_TH2(OUTDOOR)
Th5	Thermistor for condensing temperature	
Th6	Thermistor for discharge pipe temperature	CN_TH3(OUTDOOR)
Th7	Thermistor for suction pipe temperature	

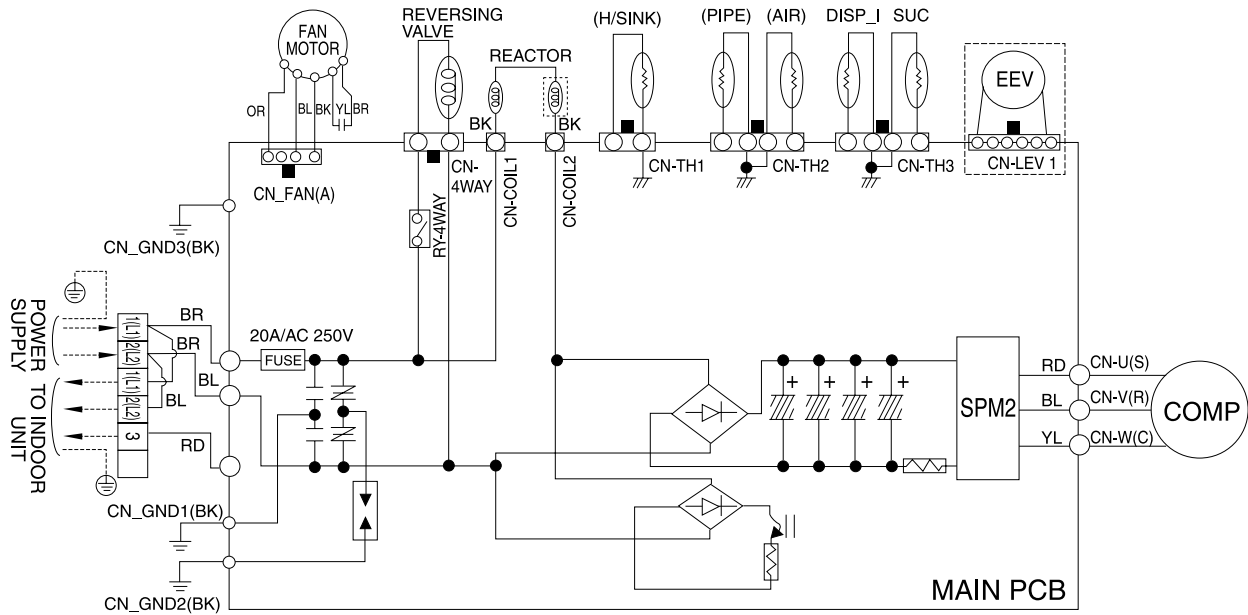
3. Wiring Diagrams

Indoor Unit

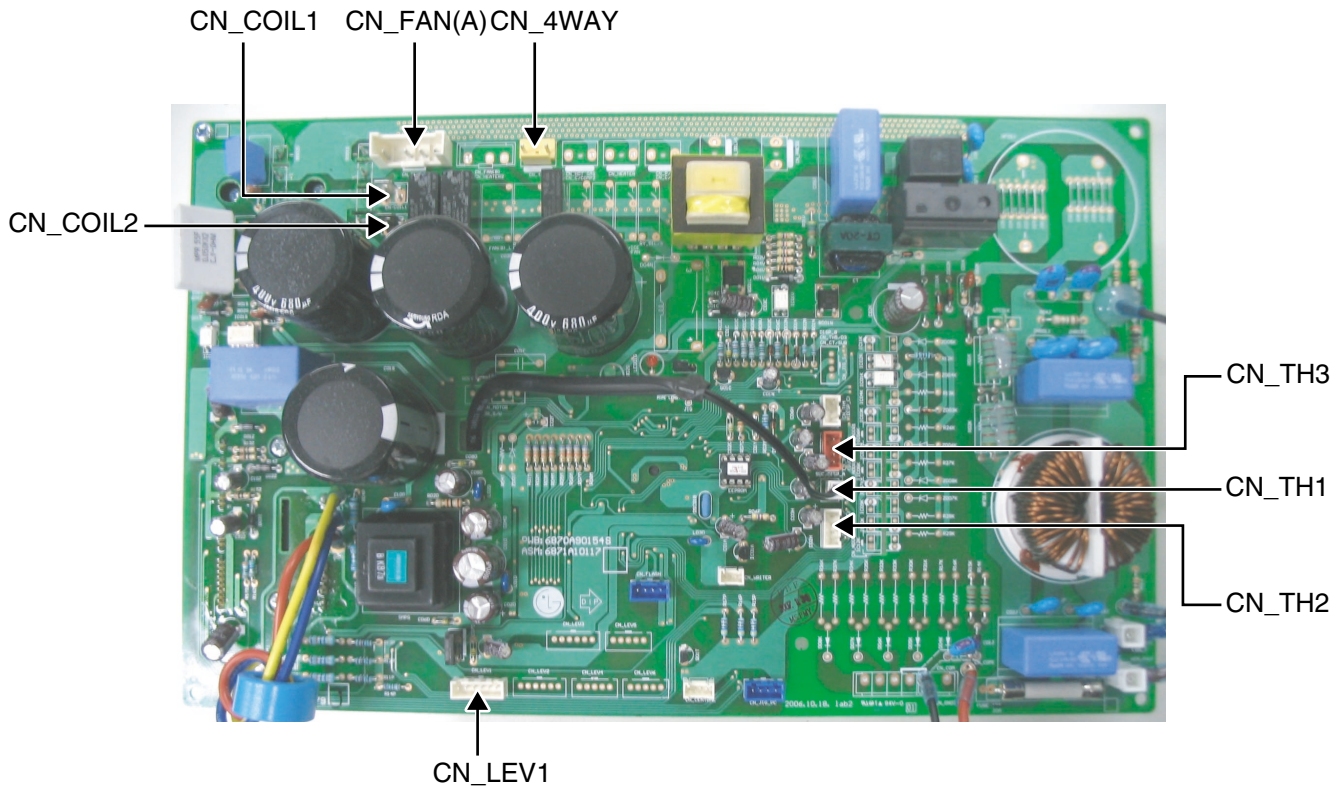


Outdoor Unit

WIRING DIAGRAM

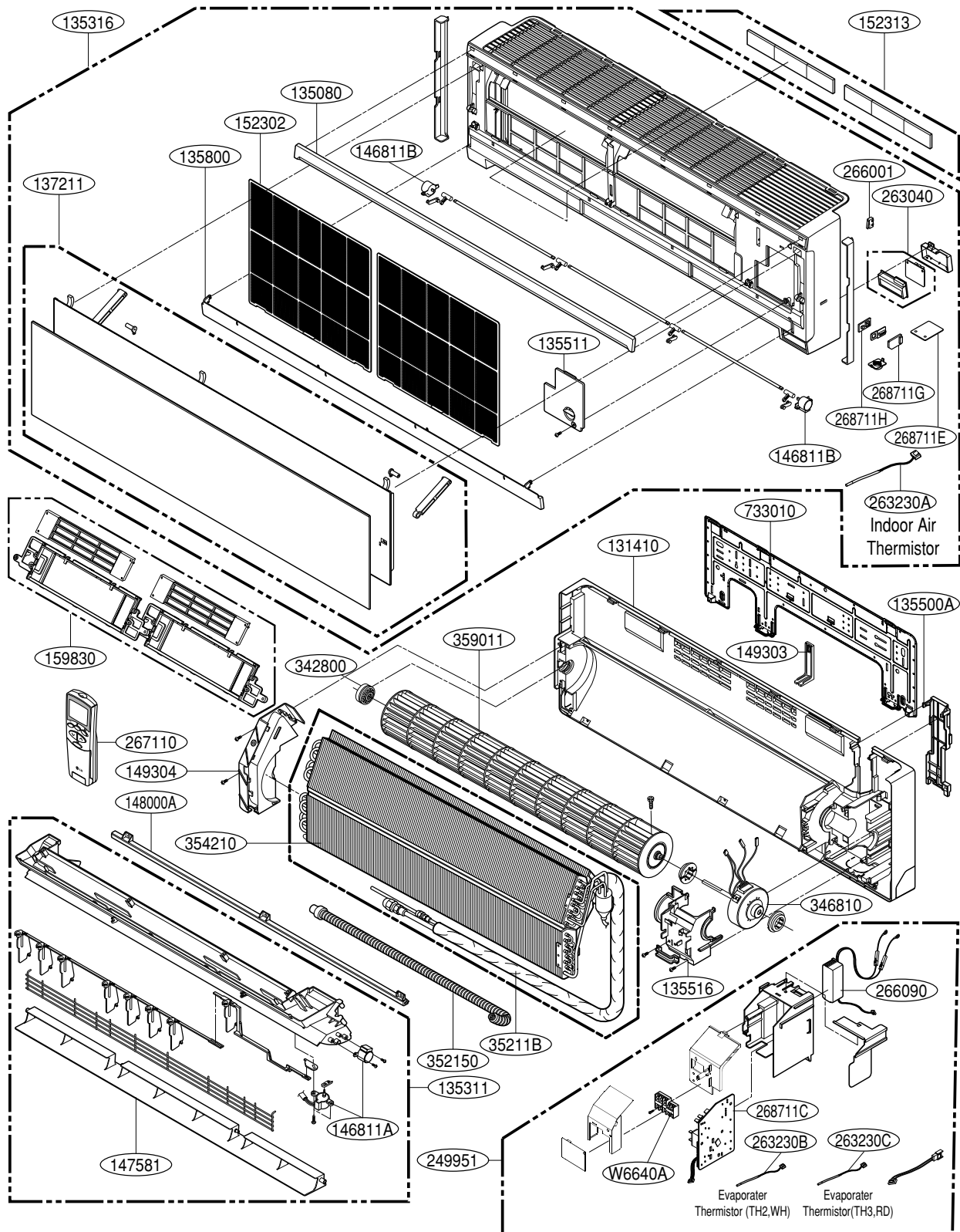


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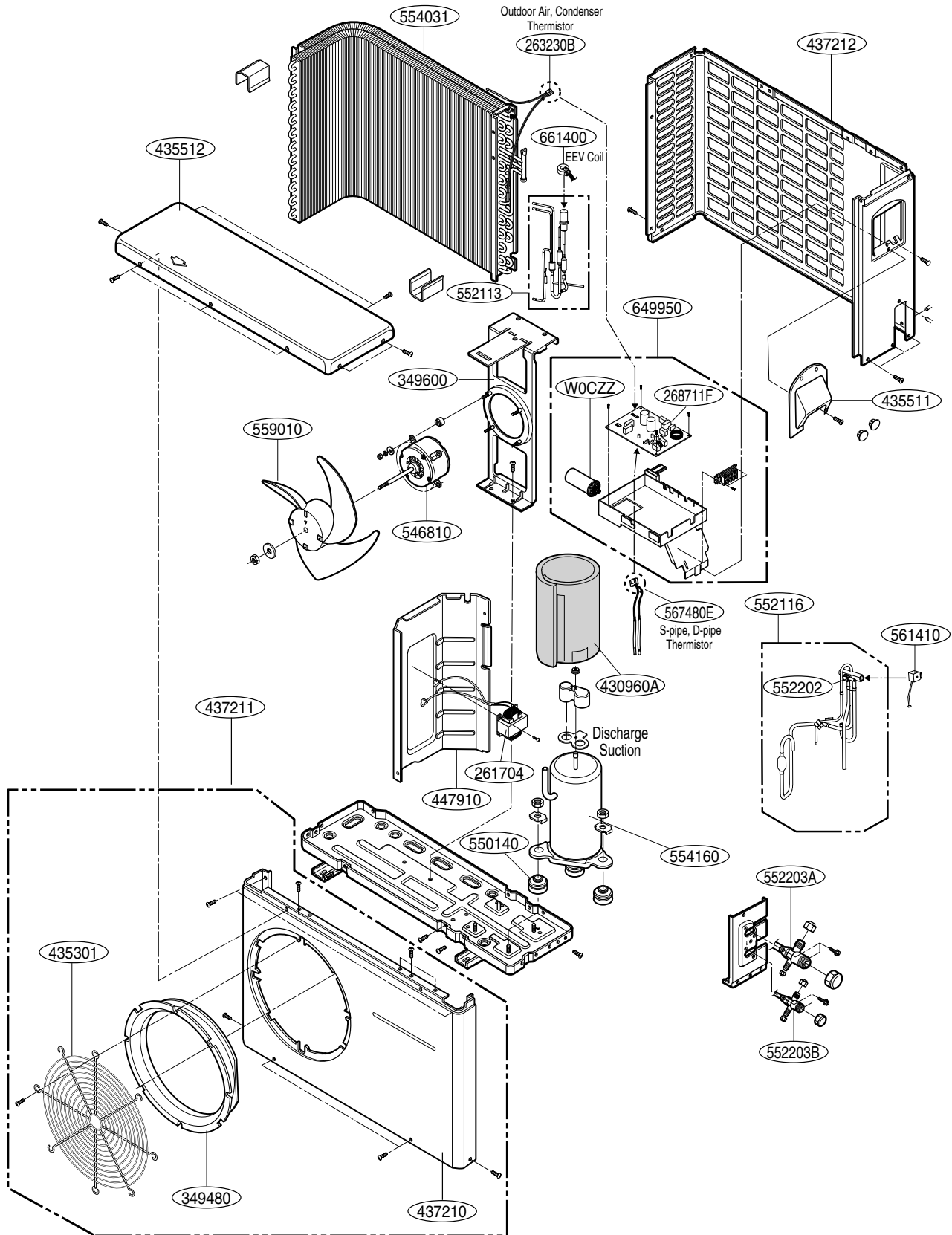
4. Exploded View

Indoor Unit



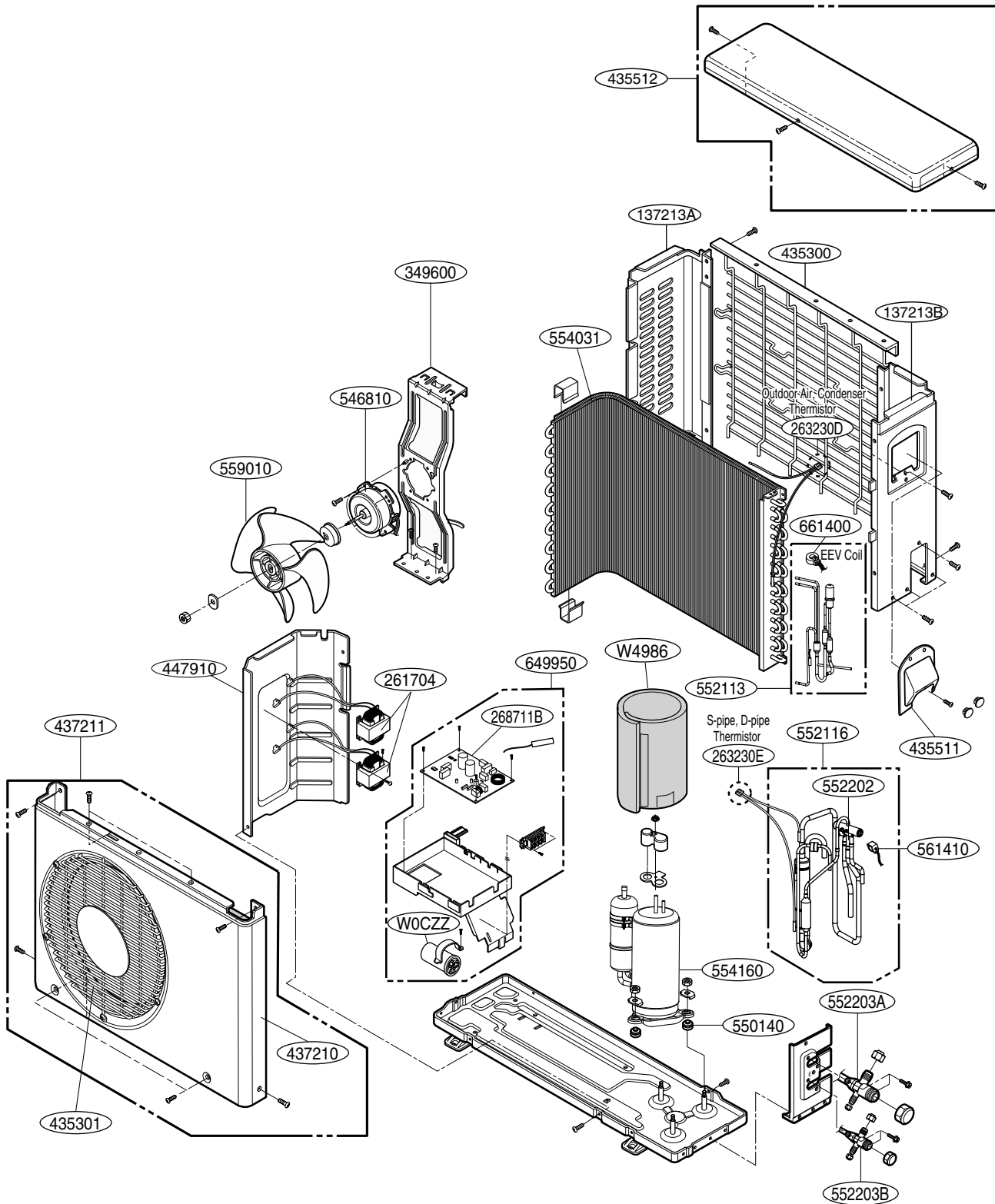
Note) * Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request.
Please check the correct parts in View RPL(Replacement Part List) on GCSC.
(GCSC Website <http://biz.Lgservice.com>.)

Outdoor Unit 18k



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(GCSC Website <http://biz.lgservice.com>,)

Outdoor Unit 24k



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