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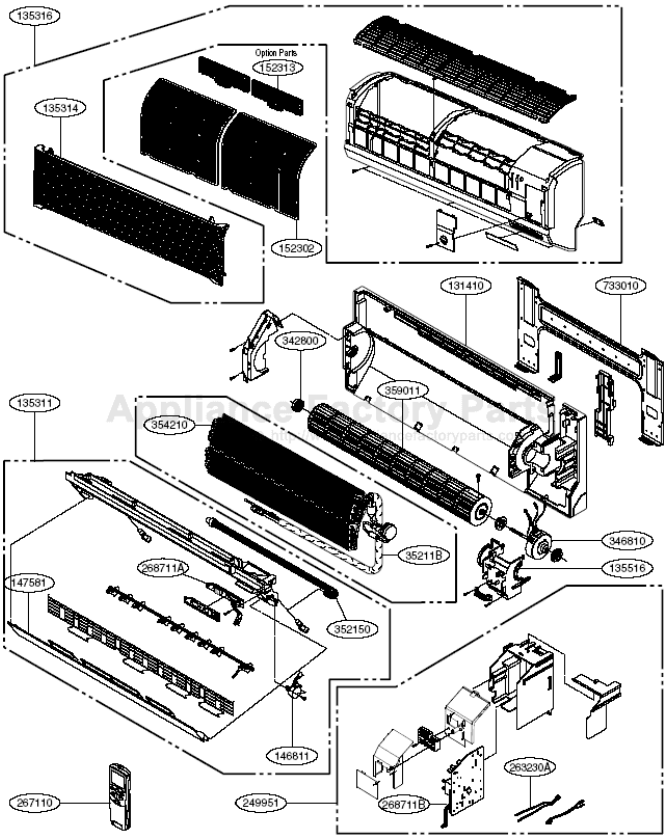
HEAT CONTROLLER AS-Q093E7Y0 Owner's Manual

Shop genuine replacement parts for HEAT CONTROLLER AS-Q093E7Y0



Find Your HEAT CONTROLLER Air Conditioner Parts - Select From 32 Models

-------- Manual continues below --------

HEAT CONTROLLER, INC.

Wall Mounted
Mini-Split System
Inverter Single-Zone
Air Conditioning

Service Manual

Model: AS-Q093E7Y0 [VMC09SB-1]
AS-Q123E7Y0 [VMC12SB-1]

CAUTION

Before servicing the unit, read the
"safety precautions" in this manual.

Only for authorized service personnel.

1. Specification

Models			AS-Q093E7Y0 [VMC09SB-1]	AS-Q123E7Y0 [VMC12SB-1]
Cooling Capacity		kW	0.90~2.70~3.70	0.90~3.52~4.04
(Min~Rating~Max)		Btu/h	3,070~9,200~12,620	3,070~12,000~13,800
Heating Capacity		kW	-	-
(Min~Rating~Max)		Btu/h	-	-
Power Input	Cooling/Heating	W	690/-	1120/-
Running Current	Cooling/Heating	A	3.2/-	5.0/-
Starting Current	Cooling/Heating	A	3.2/-	5.0/-
EER		W/W	3.91	3.14
		Btu/h.W	13.3	10.7
COP		W/W	-	-
Power Supply		Ø / V / Hz	1/208-230/60	1/208-230/60
Power Factor		%	94	97
Air Flow Rate	Indoor,Max	m^3/min(cfm)	8.5(300)	9.5(335)
	Outdoor,Max	m^3/min(cfm)	29(1,024)	29(1,024)
Moisture Removal		l/h	0.6	1.3
Sound Level	Indoor,H/M/L	dB(A)+3	36/33/30	39/33/30
	Outdoor,Max	dB(A)+3	48	48
Refrigerant & Charge(at 7.5m)		g(oz)	R410A, 1,000(35.3)	R410A,1,000(35.3)
Additional Refrigerant Charge		g/m(oz/ft)	20(0.22)	20(0.22)
Compressor	Type		Rotary	Rotary
	Model		5RS102XAA21	5RS102XAA21
	Motor Type		BLDC	BLDC
	Oil Type		FV50S	FV50S
	Oil Charge	cc	320	320
	O.L.P Name		-	-
Fan(Indoor)	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output	W	20	20
Fan(outdoor)	Type		Propeller	Propeller
	Motor Type		BLDC	BLDC
	Motor Output	W	43	43
Circuit Breaker*		A	15	15
Power Supply Cable		AWG	14	14
Power and Transmission Cable		AWG	18	18
Piping	Liquid Side	mm(in)	6.35(1/4)	6.35(1/4)
Connections	Gas Side	mm(in)	9.52(3/8)	9.52(3/8)
Drain Hose	O.D , I.D	mm(in)	21.5,16.0(0.85,0.63)	21.5,16.0(0.85,0.63)
Dimension	Indoor(W*H*D)	mm	895*282*165	895*282*165
		inch	35.2*11.1*6.5	35.2*11.1*6.5
	Outdoor(W*H*D)	mm	770*545*245	770*545*245
		inch	30.3*21.5*9.6	30.3*21.5*9.6
Net Weight	Indoor	kg(lbs)	8(17.6)	8(17.6)
	Outdoor	kg(lbs)	35(77.2)	35(77.2)
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)	-	-
Max. Piping Length		m(ft)	15(49)	15(49)
Max. Elevation Difference		m(ft)	7(23)	7(23)
Tool Code(Chassis)	Indoor + Outdoor		SE + UL	SE + UL
Functions	Temperature Control		Thermistor	Thermistor
	Plasma Filter		-	-
	Prefilter(washable/anti-fungus)		O	O
	Auto Clean		O	O
	CHAOS Wind(Auto Wind)		O	O
	Steps, Fan/Cool/Heat		-/4/-	-/4/-
	Airflow Direction Control(up&down)		Auto	Auto
	Airflow Direction Control(left&right)		Manual	Manual
	Remocon Type		Wireless LCD	Wireless LCD
	Setting Temperature	Cooling [°C(°F)]	18 ~ 30 (64~86)	18 ~ 30 (64~86)
	Range	Heating [°C(°F)]	-	-
	Auto Operation (Micom Control)		-	-
	Auto Changeover (Micom Control)		-	-
	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)		-	-
	Hot Start		-	-
	Jet Cool / Heat		O / -	O / -
	Low Ambient Operation		O	O
	Special Function		-	-
Network Functions	Dry Contact		-	-
	Network Solution(LGAP)		-	-
	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 203V

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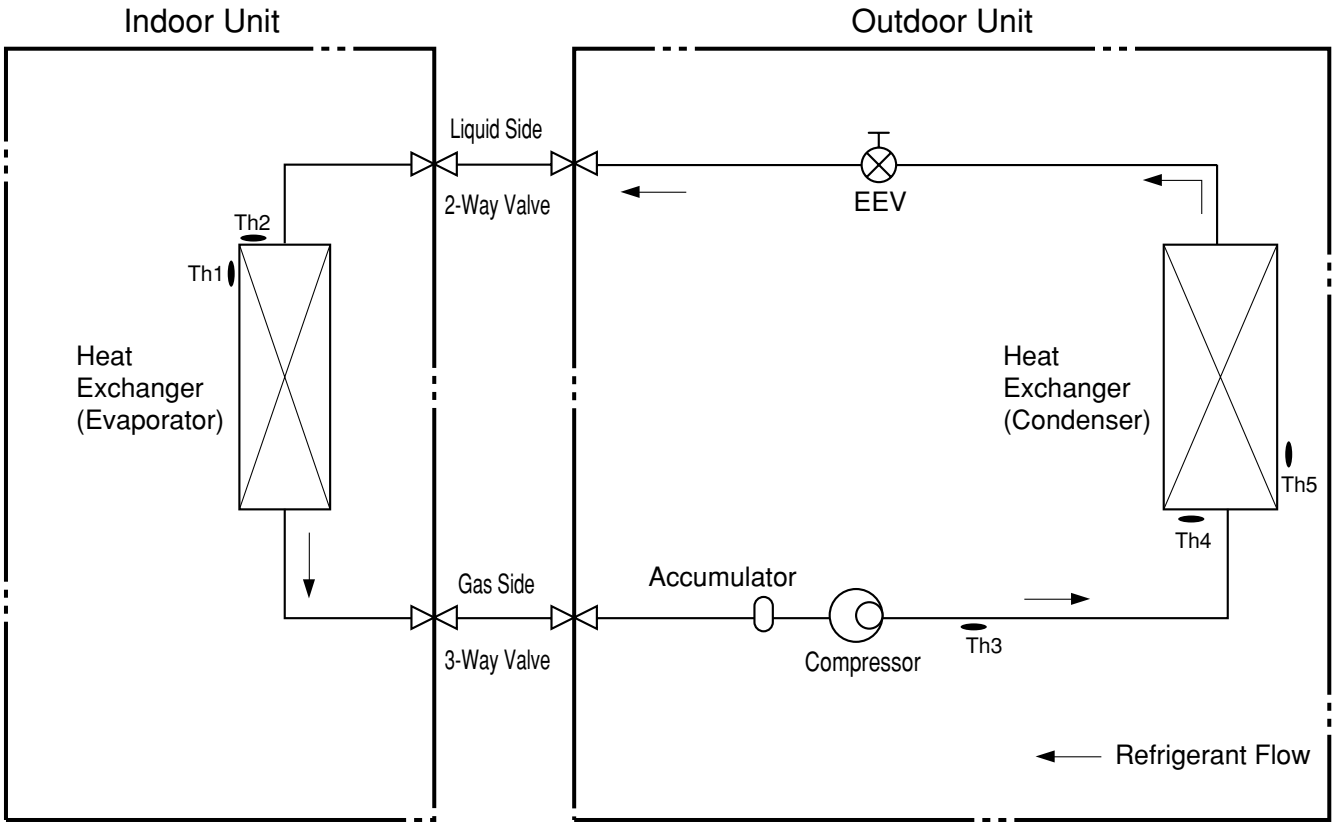
2. Piping Diagrams



LOC.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN_TH1(INDOOR)
Th2	Thermistor for evaporating temperature	
Th3	Thermistor for discharge pipe temperature	CN_D_PIPE(Outdoor)
Th4	Thermistor for condensing temperature	CN_TH1(OUTDOOR)
Th5	Thermistor for outdoor air temperature	

* EEV : Electronic Expansion Valve.

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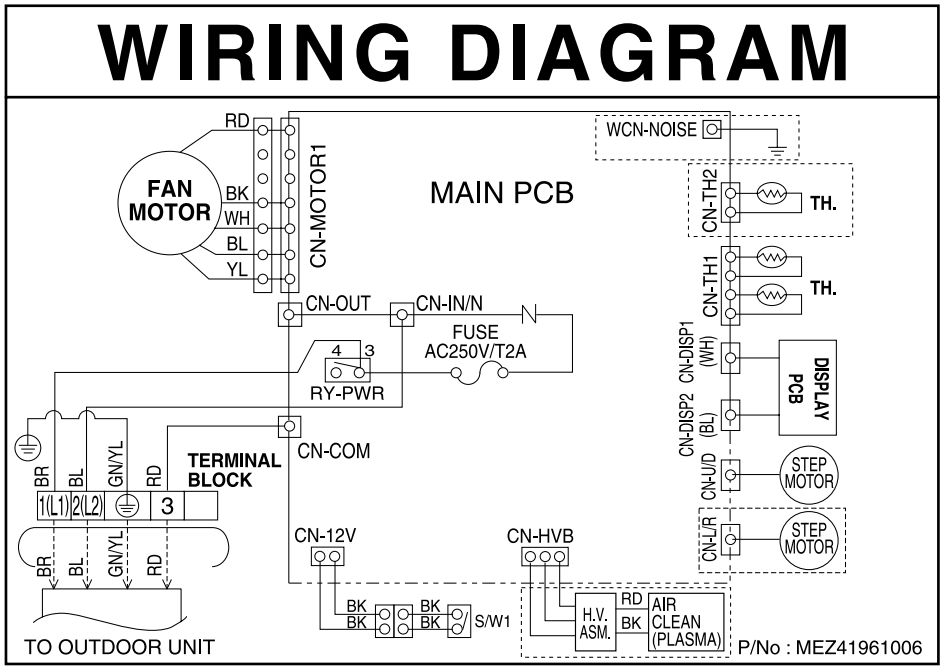
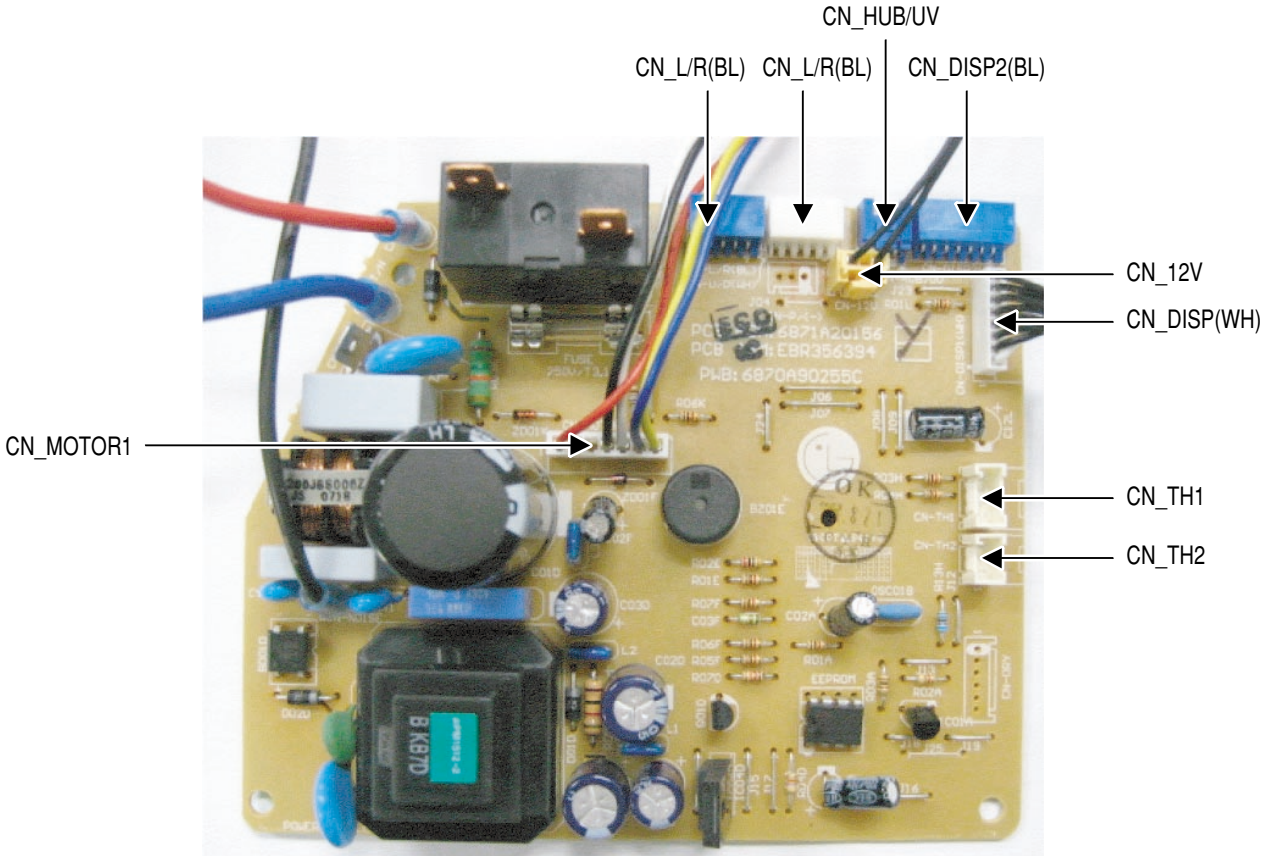
3. Wiring Diagrams

Indoor Unit





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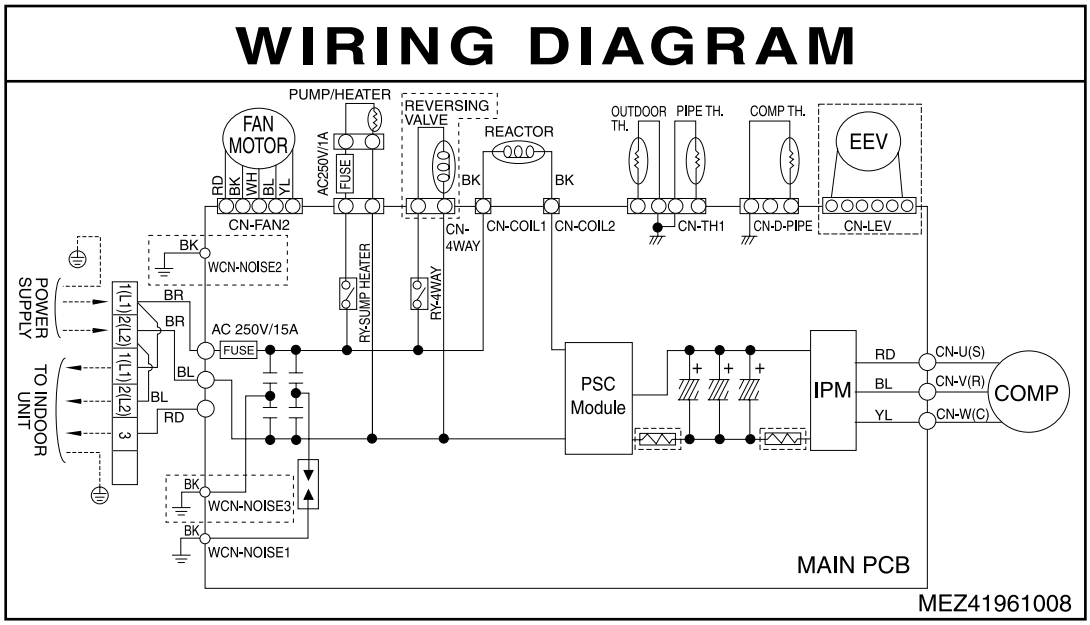
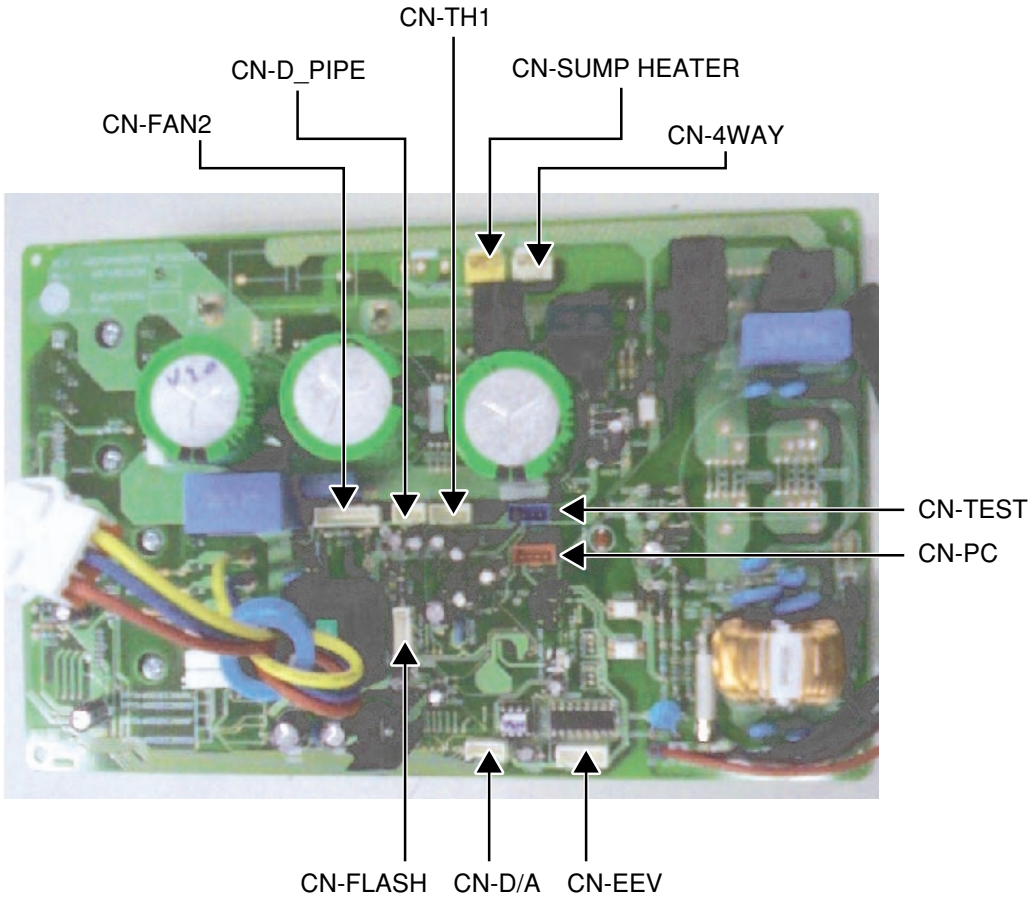
Outdoor Unit





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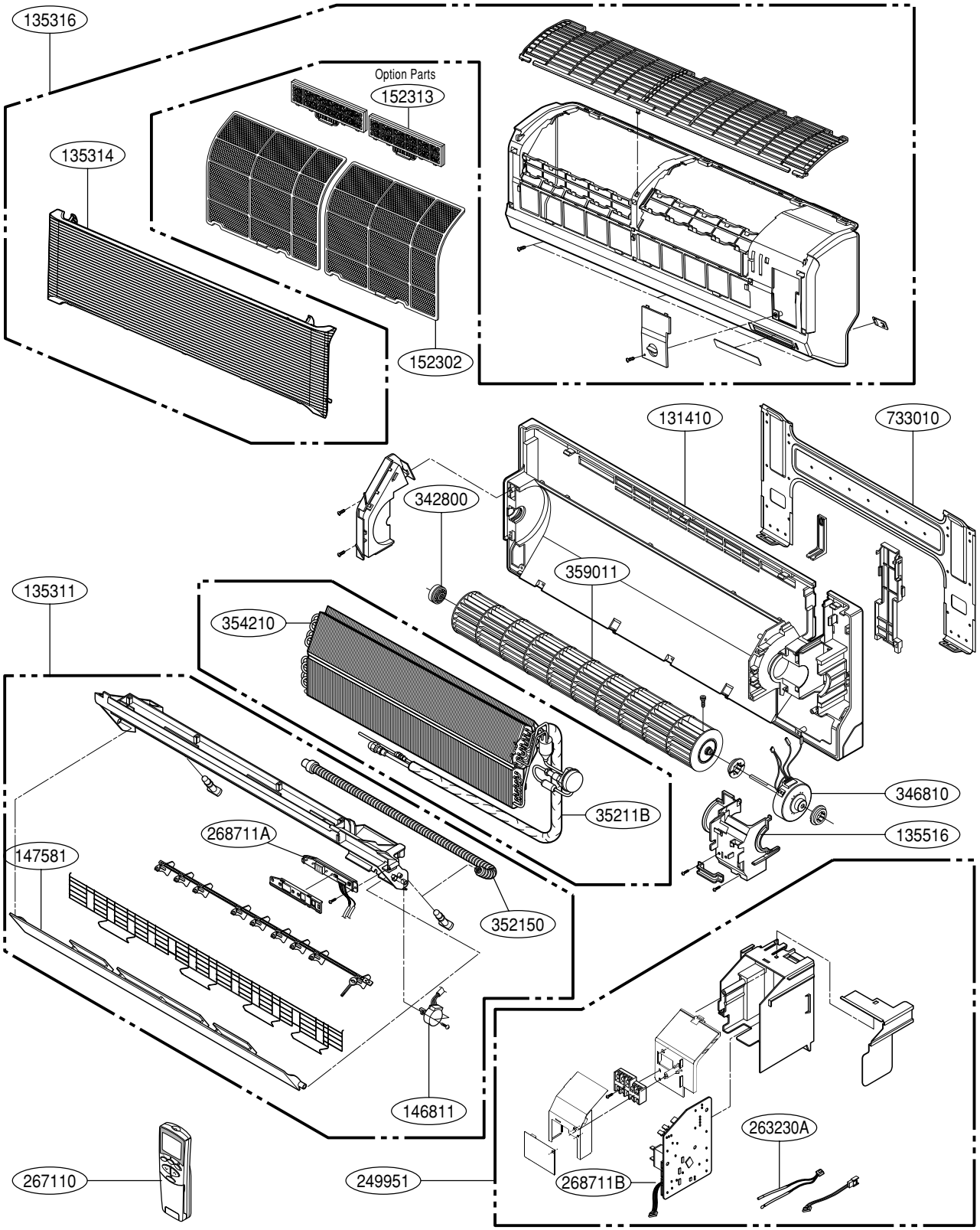
4. Exploded View

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.
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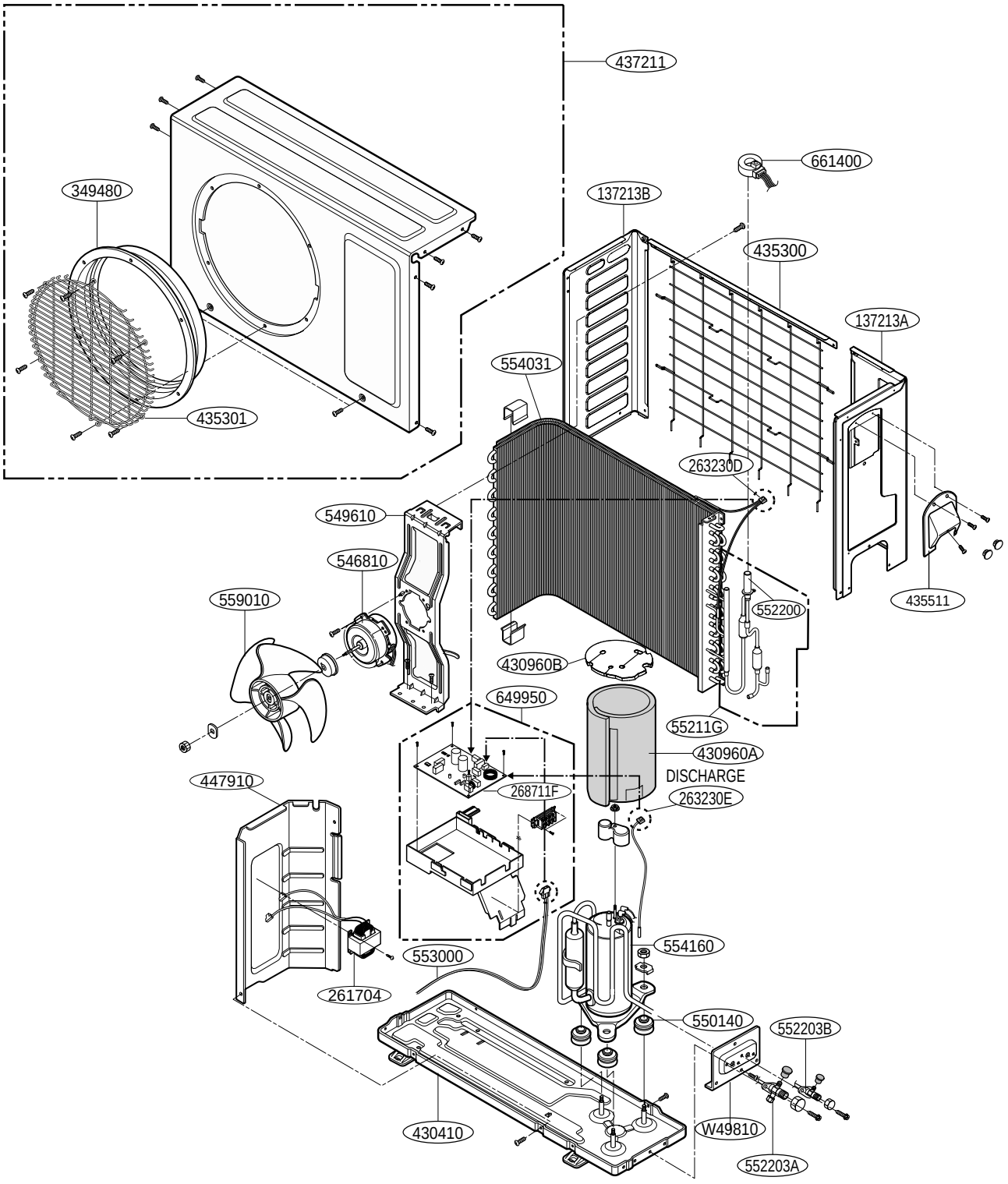
Outdoor Unit



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Specifications and performance data subject to change without notice.

HEAT CONTROLLER, INC.

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THE QUALITY LEADER IN CONDITIONING AIR

MFL42286412