



Internal Use Only

<http://biz.lgservice.com>

# Room Air Conditioner

## SVC MANUAL(Exploded View)

MODEL : AS-W303DGH0(LS305HV)

### CAUTION

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

# 1. Specification

Models		AS-W303DGH0	
Cooling Capacity (Min~Rating~Max)		kW	3.5~7.9~7.9
		Btu/h	12000~27000~27000
Heating Capacity (Min~Rating~Max)		kW	3.5~8.5~8.5
		Btu/h	12000~29000~29000
Power Input	Cooling/Heating	W	3100/3200
Running Current	Cooling/Heating	A	13.6/14.0
Starting Current	Cooling/Heating	A	13.1/14.0
EER		W/W	2.55
		Btu/h.W	8.71
COP		W/W	2.66
Power Supply		Ø / V / Hz	1/208~230/60
Power Factor		%	97
Air Flow Rate	Indoor,Max	m <sup>3</sup> /min(cfm)	21(742)
	Outdoor,Max	m <sup>3</sup> /min(cfm)	58(2048)
Moisture Removal		l/h	2.8
Sound Level	Indoor,H/M/L	dB(A)+3	47/43/41
	Outdoor,Max	dB(A)+3	58
Refrigerant & Charge(at 7.5m)		g(oz)	R410A 1830(64.6)
Additional Refrigerant Charge		g/m(oz/ft)	20(0.22)
Compressor	Type		SCROLL + ROTARY
	Model		5CS130XCC03 + GK141KAA
	Motor Type		BLDC + AC
	Oil Type		POE
	Oil Charge	cc	480 + 350
	O.L.P Name		-
Fan(Indoor)	Type		Cross Flow Fan
	Motor Output	W	91
Fan(outdoor)	Type		Propeller
	Motor Type		AC
	Motor Output	W	140
Circuit Breaker*		A	30
Power Supply Cable		No.*mm <sup>2</sup>	3*2.08
Power and Transmission Cable		No.*mm <sup>2</sup> +No.*mm <sup>2</sup>	4*0.82
Piping	Liquid Side	mm(in)	6.35(1/4)
Connections	Gas Side	mm(in)	15.88(5/8)
Drain Hose	O.D , I.D	mm(in)	21.5,16(0.85,0.63)
Dimension	Indoor(W*H*D)	mm	1209*346*205
		inch	47.6*13.6*8.1
	Outdoor(W*H*D)	mm	800*870*320
		inch	31.5*34.3*12.6
Net Weight	Indoor	kg(lbs)	17(37.5)
	Outdoor	kg(lbs)	67(147.7)
Operation Range	Cooling(Outdoor)	°C(°F)	-5°C~43°C (23~109.4)
	Heating(Outdoor)	°C(°F)	-5°C~27°C(23~80.6)
Max. Piping Length		m(ft)	30(98.4)
Max. Elevation Difference		m(ft)	15(49)
Tool Code(Chassis)	Indoor + Outdoor		SD+UE1
Functions	Temperature Control		Thermistor
	Plasma Filter		Neo
	Prefilter(washable/anti-fungus)		O
	Auto Clean		O
	CHAOS Wind(Auto Wind)		O(-)
	Steps, Fan/Cool/Heat		3/4/4
	Airflow Direction Control(up&down)		Auto
	Airflow Direction Control(left&right)		Manual
	Remocon Type		Wireless LCD
	Setting Temperature	Cooling	18 ~ 30
	Range	Heating	16 ~ 30
	Auto Operation (Micom Control)		-
	Auto Changeover (Micom Control)		O
	Self Diagnosis		O
	Timer		24h, On/Off
	Sleep Operation		O
	Soft Dry Operation		O
	Restart Delay(minute)		2
	Deice Control(Defrost)		O
	Hot Start		O
	Jet Cool		O
	Low Ambient Operation		O
	Special Function		-
Network Functions	Dry Contact		-
	Network Solution(LGAP)		-
	PI485		-

**Note:**

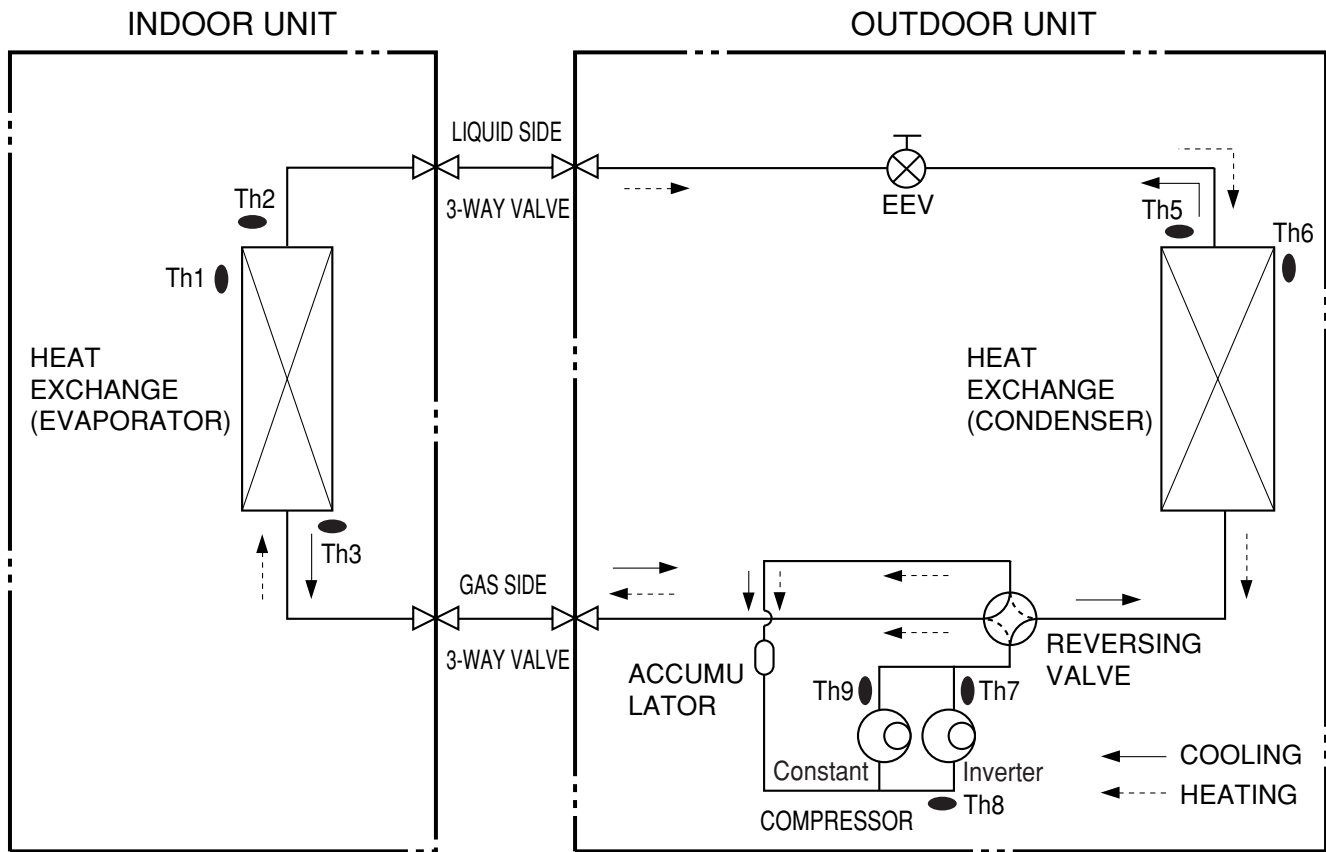
O : Applied, - : No relation

\* 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.

## 2. Piping Diagrams

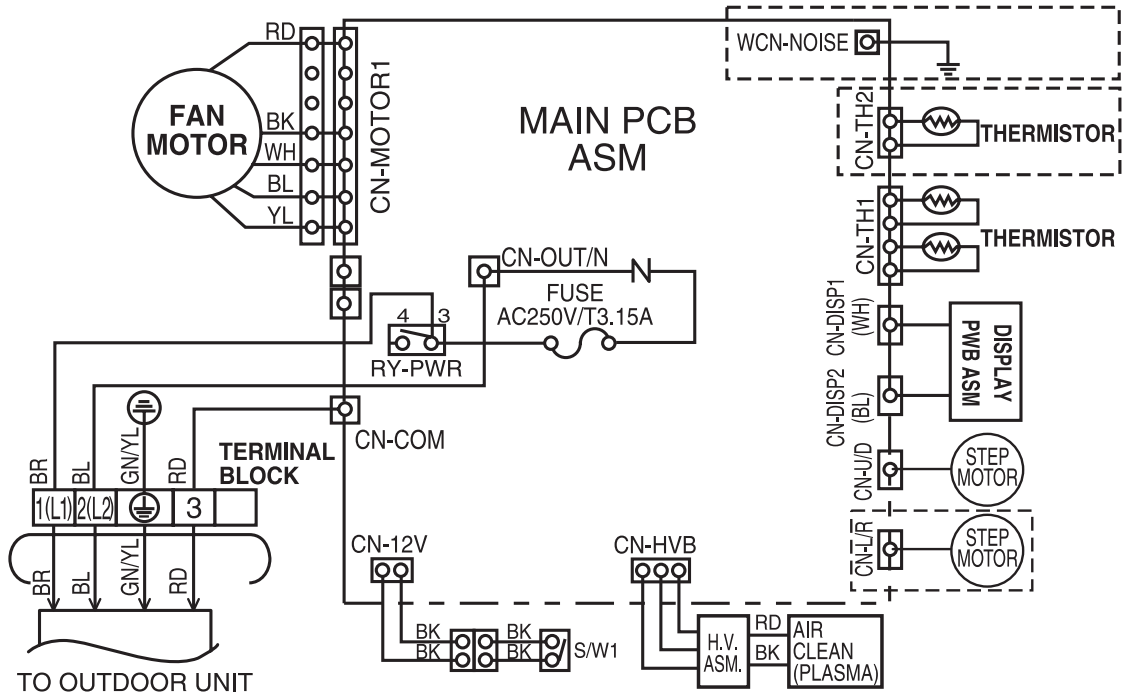


LOC.	Description	PCB Connector
Th1	Thermister for indoor air temperature	CN-TH1(Indoor)
Th2	Thermister for indoor pipe(in) temperature	
Th3	Thermister for Indoor pipe(out) temperature	CN-TH2(Indoor)
Th4	Thermister for outdoor heat sink temperature	CN-TH1(Outdoor)
Th5	Thermister for outdoor pipe temperature	CN-TH2(Outdoor)
Th6	Thermister for outdoor air temperature	
Th7	Thermister for outdoor discharge pipe temperature(Inverter)	CN-TH3(Outdoor)
Th8	Thermister for outdoor suction pipe temperature (Inverter)	
Th9	Thermister for outdoor discharge pipe temperature(Constant)	CN-TH4 (Outdoor)

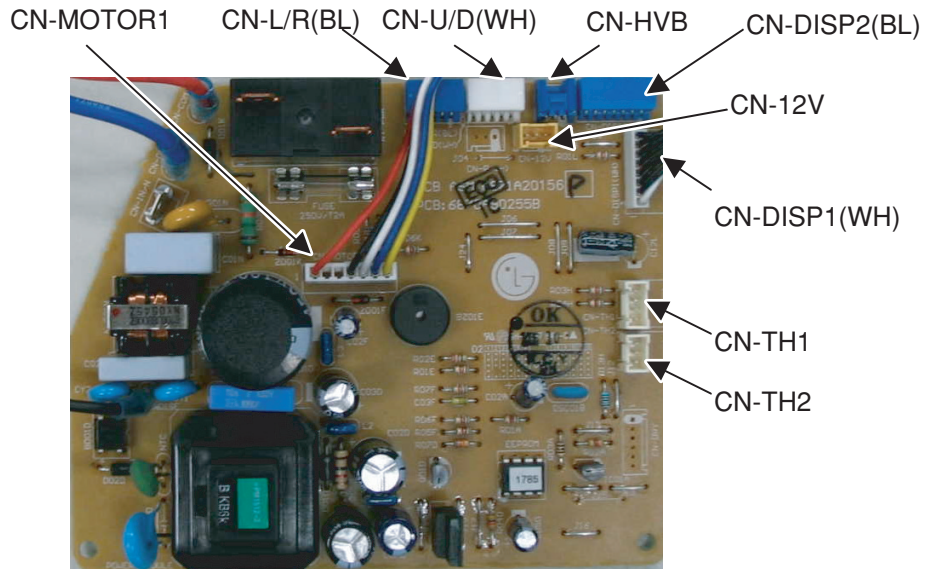
\* EEV : Electronic Expansion Valve

### 3. Wiring Diagrams

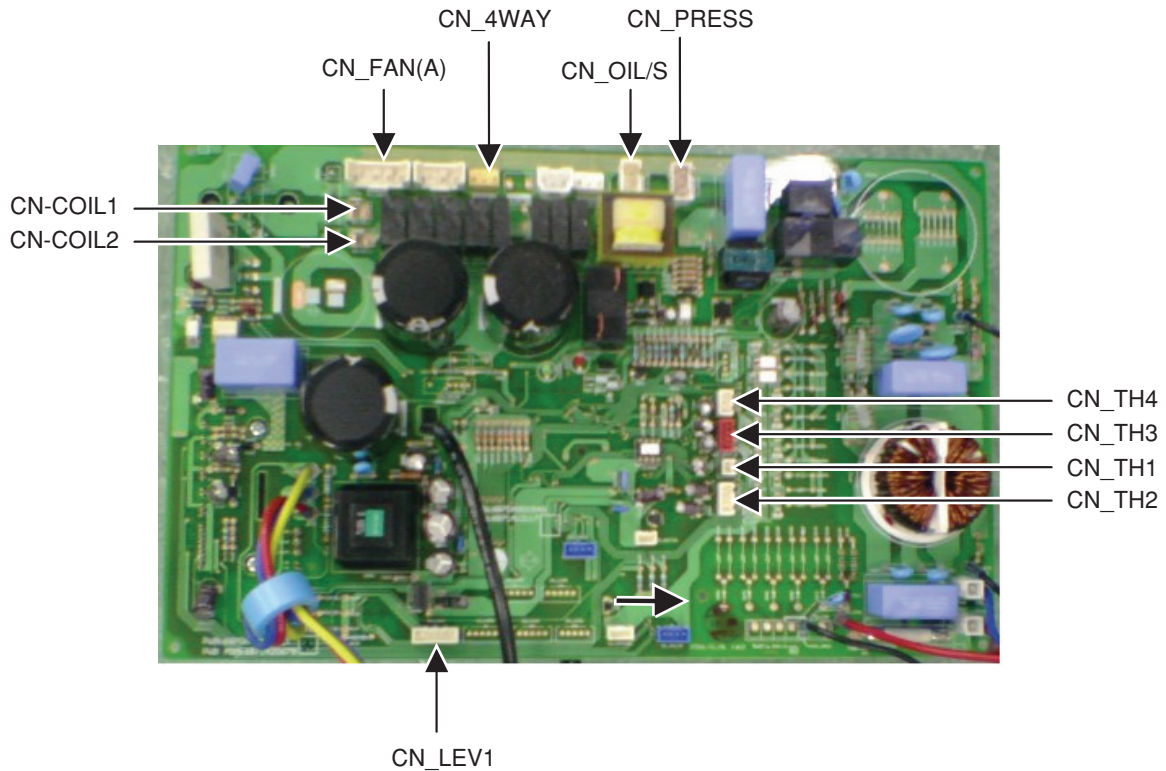
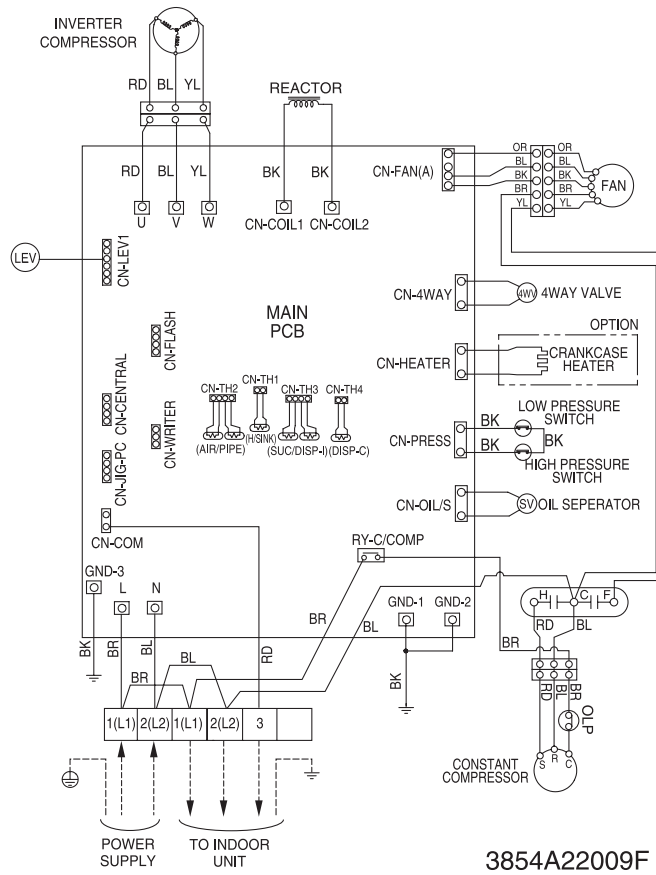
#### Indoor Unit



P/No : EBY38909701

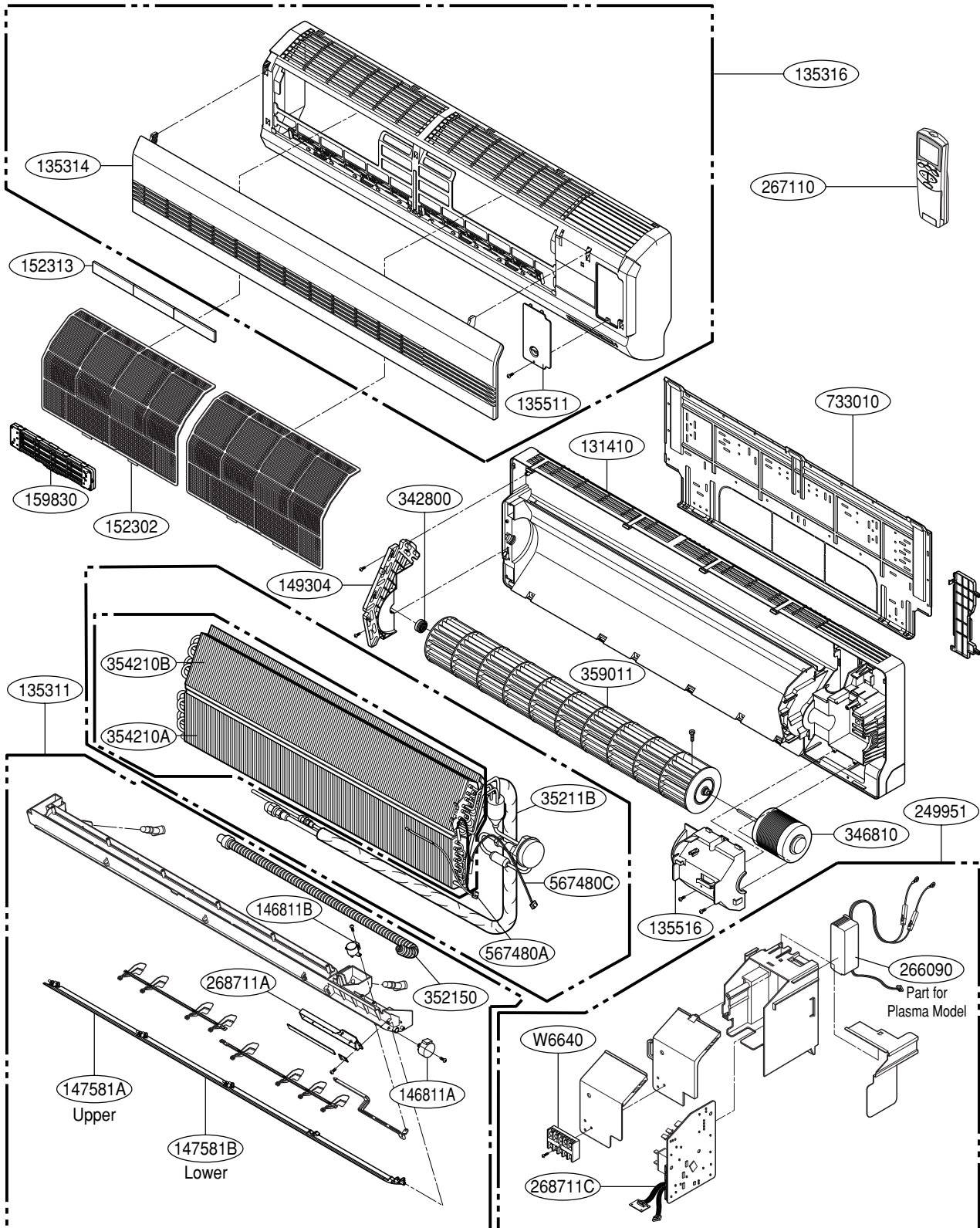


# Outdoor Unit



## 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>.)





P/NO : 3828A20195Y

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