



CONFIDENTIAL

Room Air Conditioner

SVC MANUAL (Exploded View)

MODEL : S4-W09JA1ZD.EC6GERU (B09TS.SSJ)

CAUTION

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

1. Specification

Buyer Model Factory Model	Set (Indoor / Outdoor)		Unit	B09TS.SSJ (B09TS.NSJ / B09TS.UA3)		
				S4-W09JA1ZD (S4NW09JA1ZD / S4UW09JA1ZD)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.88	2.70	3.46
			Btu/h	3,000	9,212	11,800
			kJ/h	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kJ/h	-	-	-
Power Input	Heating	Min ~ Rated ~ Max	kW	0.88	2.93	4.04
			Btu/h	3,000	9,997	13,800
			kJ/h	-	-	-
	Heating -7 °C	Max	kW	-	-	-
			W	140	729	1,400
			W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	W	140	771	1,550
			A	0.70	3.50	6.50
			W	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	A	0.70	3.60	7.50
			W	-	-	-
			W	-	-	-
EER	Cooling	Min ~ Rated ~ Max	W/W	-	3.70	-
			(Btu/h)/W	-	12.64	-
			(kJ/h)/W	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
			(kJ/h)/W	-	-	-
SEER	Cooling	Min ~ Rated ~ Max	W/W	-	18.50	-
			(Btu/h)/W	-	3.80	-
			(kJ/h)/W	-	12.97	-
	Cooling (T3)	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
			(kJ/h)/W	-	-	-
COP	Cooling	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
			(kJ/h)/W	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
			(kJ/h)/W	-	-	-
SCOP	Cooling	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
			(kJ/h)/W	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
			(kJ/h)/W	-	-	-
Energy Label Grade	Cooling / Heating	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
			(kJ/h)/W	-	-	-
	Cooling / Heating	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
			(kJ/h)/W	-	-	-
Annual Energy Consumption	Cooling / Heating	Min ~ Rated ~ Max	kWh/year	-	-	-
			Ø, V, Hz	-	1, 220~240, 50	-
			W	-	187 ~ 276	-
	Cooling / Heating	Min ~ Rated ~ Max	%	-	94 / 94	-
			l/h	-	0.80	-
			m³/min	-	12.5 / 9.3 / 7.2 / 2.7	-
Moisture Removal	Cooling / Heating	Min ~ Rated ~ Max	m³/min	-	13 / 10 / 7 / 5.5	-
			dB(A)	-	42 / 36 / 28 / 21	-
			dB(A)	-	42 / 36 / 31	-
	Cooling / Heating	Min ~ Rated ~ Max	dB(A)	-	59	-
			mm	-	836.5×308.0×192.6	-
			mm	-	909×256×383	-
Indoor	Weight	Net	kg	-	8.5	-
			kg	-	10.7	-
			kg	-	10.7	-
	Exterior Color Code	Cooling / Heating	mm	-	837 × 530.5 × 332	-
			mm	-	837 × 530.5 × 332	-
			mm	-	837 × 530.5 × 332	-
Outdoor	Weight	Net	kg	-	26.4	-
			kg	-	28.2	-
			kg	-	28.2	-
	Max. Fuse Size	Cooling	A	-	20	-
			A	-	20	-
			A	-	20	-
Exterior Color Code	Cooling	Min ~ Rated ~ Max	°C DB	-	18 ~ 48	-
			°C DB	-	-5 ~ 24	-
			°C WB	-	-5 ~ 18	-
	Heating	Min ~ Rated ~ Max	°C DB	-	18 ~ 48	-
			°C DB	-	-5 ~ 24	-
			°C WB	-	-5 ~ 18	-
Operation Range	Cooling	Min ~ Rated ~ Max	°C DB	-	18 ~ 48	-
			°C DB	-	-5 ~ 24	-
			°C WB	-	-5 ~ 18	-
	Heating	Min ~ Rated ~ Max	°C DB	-	18 ~ 48	-
			°C DB	-	-5 ~ 24	-
			°C WB	-	-5 ~ 18	-
Circuit Breaker	Cooling	Min ~ Rated ~ Max	A	-	15	-
			A	-	15	-
			A	-	15	-
	Heating	Min ~ Rated ~ Max	A	-	15	-
			A	-	15	-
			A	-	15	-
Power Supply Cable	Cooling	Min ~ Rated ~ Max	No. × mm²	-	3 × 1	-
			No. × mm²	-	3 × 1	-
			No. × mm²	-	3 × 1	-
	Heating	Min ~ Rated ~ Max	No. × mm²	-	3 × 1	-
			No. × mm²	-	3 × 1	-
			No. × mm²	-	3 × 1	-
Power Supply to Unit	Cooling	Min ~ Rated ~ Max	No. × mm²	-	4 × 0.75	-
			No. × mm²	-	4 × 0.75	-
			No. × mm²	-	4 × 0.75	-
	Heating	Min ~ Rated ~ Max	No. × mm²	-	4 × 0.75	-
			No. × mm²	-	4 × 0.75	-
			No. × mm²	-	4 × 0.75	-
Power and Communication Cable	Cooling	Min ~ Rated ~ Max	No. × mm²	-	4 × 0.75	-
			No. × mm²	-	4 × 0.75	-
			No. × mm²	-	4 × 0.75	-
	Heating	Min ~ Rated ~ Max	No. × mm²	-	4 × 0.75	-
			No. × mm²	-	4 × 0.75	-
			No. × mm²	-	4 × 0.75	-
Piping	Cooling	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
	Heating	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
Drain Hose Size	Cooling	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
	Heating	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
Between Indoor & Outdoor	Cooling	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
	Heating	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
Refrigerant	Cooling	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
	Heating	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
Defrost Method	Cooling	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
	Heating	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
Tool Code (Chassis)	Cooling	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
	Heating	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
Compressor	Cooling	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
	Heating	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
Fan(Indoor)	Cooling	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
	Heating	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
Fan(Outdoor)	Cooling	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
	Heating	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
Heat Exchanger	Cooling	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-
	Heating	Min ~ Rated ~ Max	mm	-	ø 8.35	-
			mm	-	ø 8.35	-
			mm	-	ø 8.35	-

Note

- - : No Relation
- For Circuit Breaker Rating, please conform to local standards whenever necessary.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ±20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.

Conversion Formula
kW = Btu/h x 0.0002931
CFM = CMM x 35.3

2. Function

Category	Function	B09TS
		S4-W09JA12D
Air Flow	Air Supply Outlet	1
	Airflow Direction Control (Left & Right)	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps
	Auto Swing (Left & Right)	○
	Auto Swing (Up & Down)	○
	Fan Speed Steps (Fan / Cool / Heat)	5 / 6 / 6
	Natural Wind (Auto Wind)	○
	Jet Cool / Jet Heat (Power Wind)	○ / ○
	Comfort Air	○
Air Purifying	Prefilter (Washable / Anti-Bacteria)	○
	Deodorizing Filter	X
	3M Micro Dust Filter	○
	3M Multi Protection Filter	X
	Plasma Air Purifier (Ionizer)	○
Installation	Drain Pump	X
Reliability	Hot Start	○
	Self Diagnosis	○
	De-ice Control (Defrost)	○
	Dry (Dehumidification) Operation	○
Convenience	Auto Changeover	○
	Auto Operation (Artificial Intelligence)	X
	Auto Cleaning (Coil Dry)	○
	Auto Restart Operation	○
	Child Lock ¹	X
	Forced Operation	○
	Group Control ¹	X
	Sleep Mode	7hr
	Timer 24hr (On/Off) / 7hr (Off)	○ / X
	Timer (Weekly) ¹	X
	Two Thermistor Control ¹	X
	Low Ambient Operation	○
	Overheating Protection	○
	Low Heating	X
	Voice Control	X
	Smart Scan (PIR)	X
	LG AC Tag On (NFC)	X
	Outdoor Silent Mode	○
	Mosquito Away	X
	Smart Diagnosis	○
	Indoor Unit Display Type	Number Display
	Indoor Unit Display Light	On/Off
	Energy Display	○
Energy Saving	Energy Saving	X
	Active Energy Control (Watt Option)	○
	Gen Mode	X
	Gen Mode	X
Individual Control	Wired Remote Controller (Premium) ²	X
	Wired Remote Controller (Standard) ²	X
	Wired Remote Controller (Simple with Mode Selection) ²	X
	Wired Remote Controller (Simple without Mode Selection) ²	X
	Handheld Wireless Controller	(See Remote Controller Section)
		AKB74955603
CAC Network Function	General Central Controller (Non LGAP)	X
	Network Solution (LGAP)	○
	Dry Contact ²	X
	PDI (Power Distribution Indicator) ²	X
	Outdoor Unit PI 485 ²	X
Special Function Kit	Wi-Fi ²	Embedded
	Water Level Sensor Connection ²	X
	Wind Baffle Kit ²	X
	Sump Heater	X
	Sheath Heater ²	X
	Crank Case Heater	X
Others	Smart Inverter Monitoring System (SIMs) ²	X
	Mode Lock	X
	Temperature Control	Thermistor
	DRED (Demand Response Enabling Device)	X

Note

○ : Applied, X : Not Applied

* Filters are optional in some specific areas.

* ¹ : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.

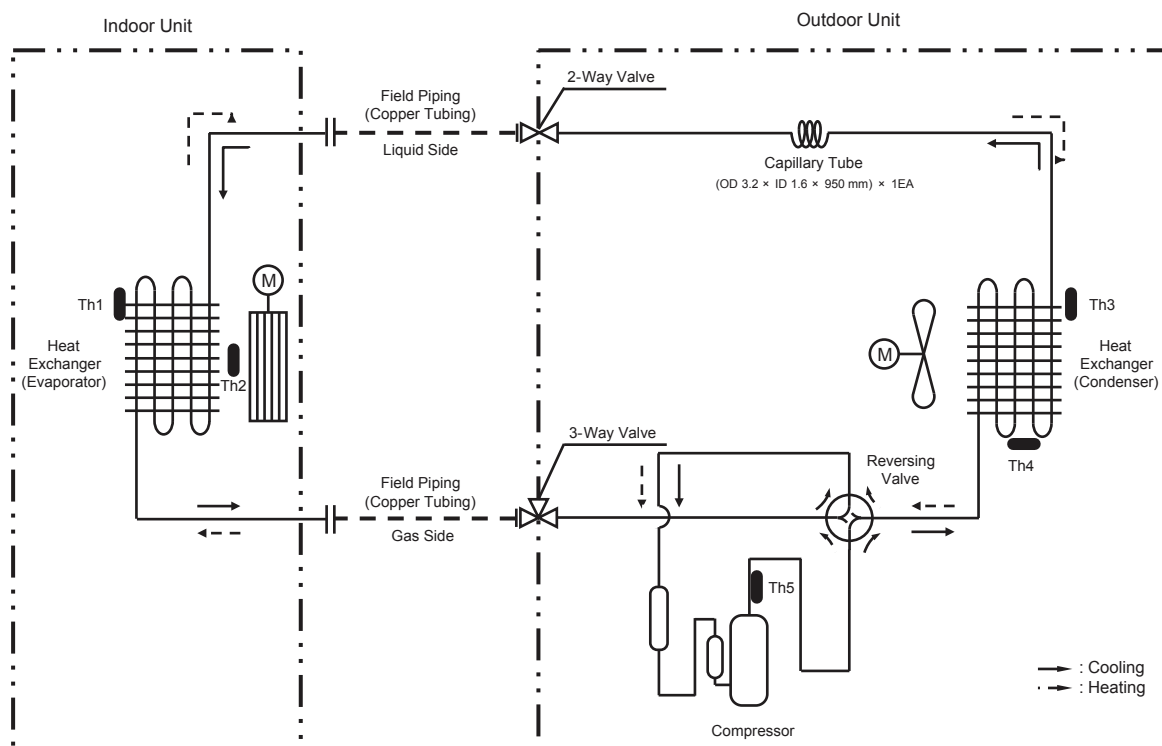
* ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.

* The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)

* Some specifications may be changed without notifications due to our policy of innovation.

3. Refrigerant Cycle Diagram

Model : S4-W09JA1ZD



LOC.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condensing temperature	
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

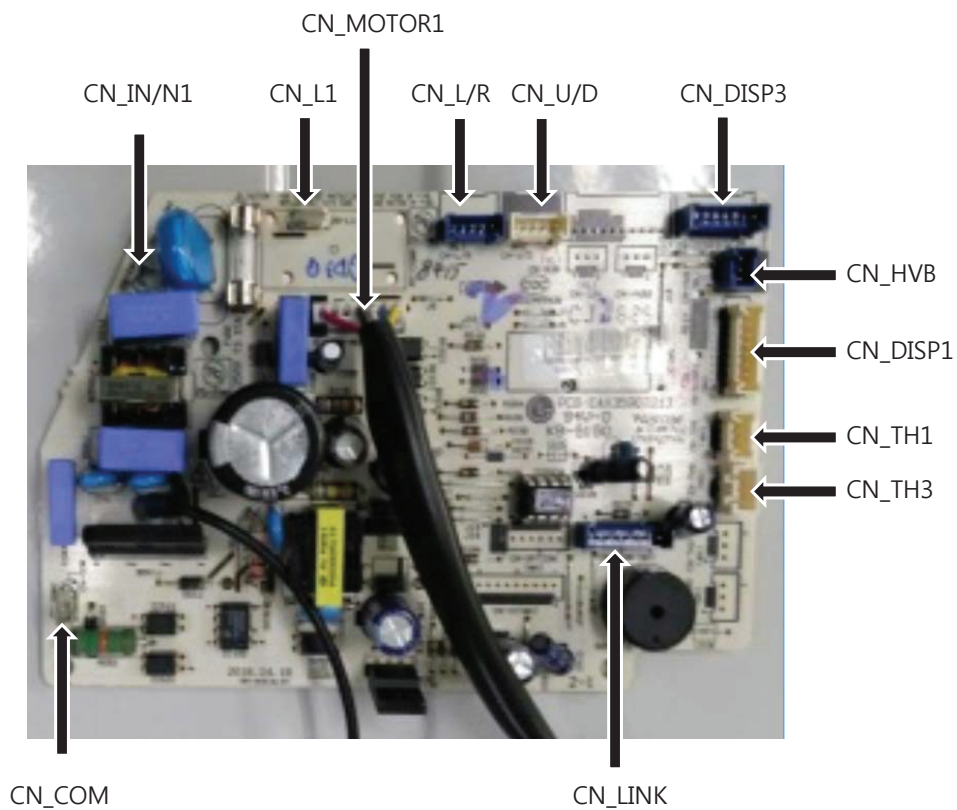
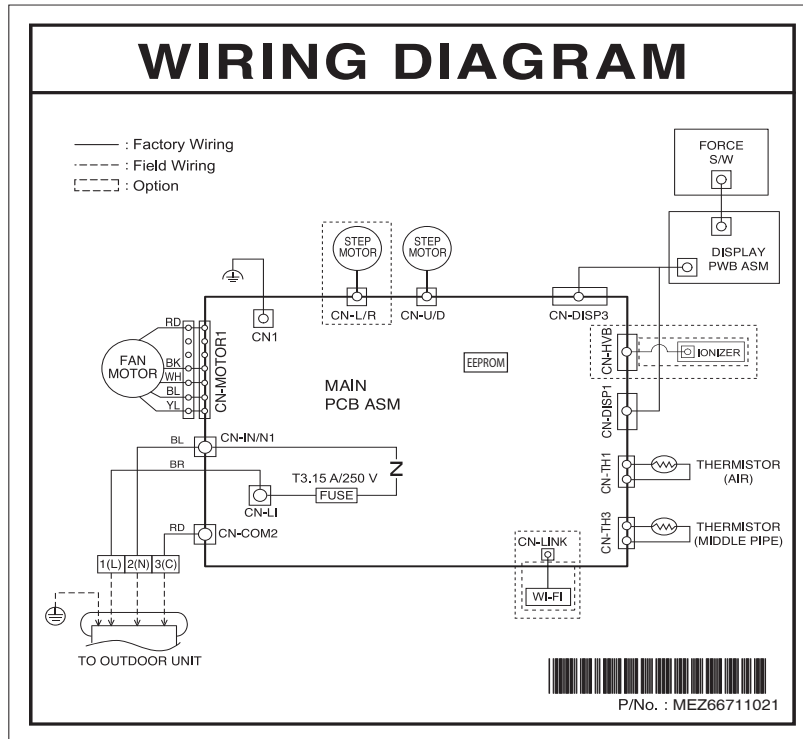
■ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid	
	mm	inch	mm	inch
S4-W09JA1ZD	Ø 9.52	Ø 3/8	Ø 6.35	Ø 1/4

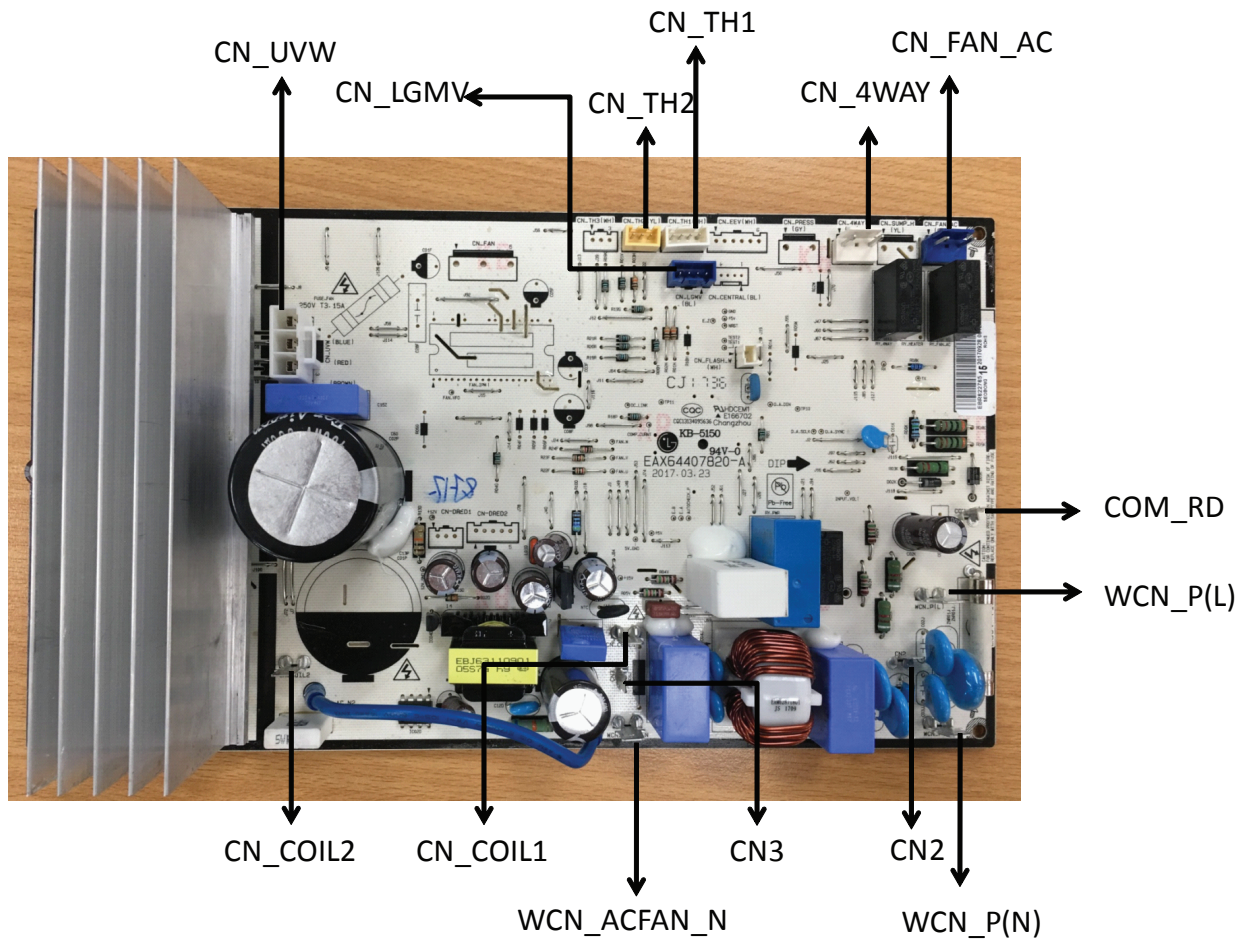
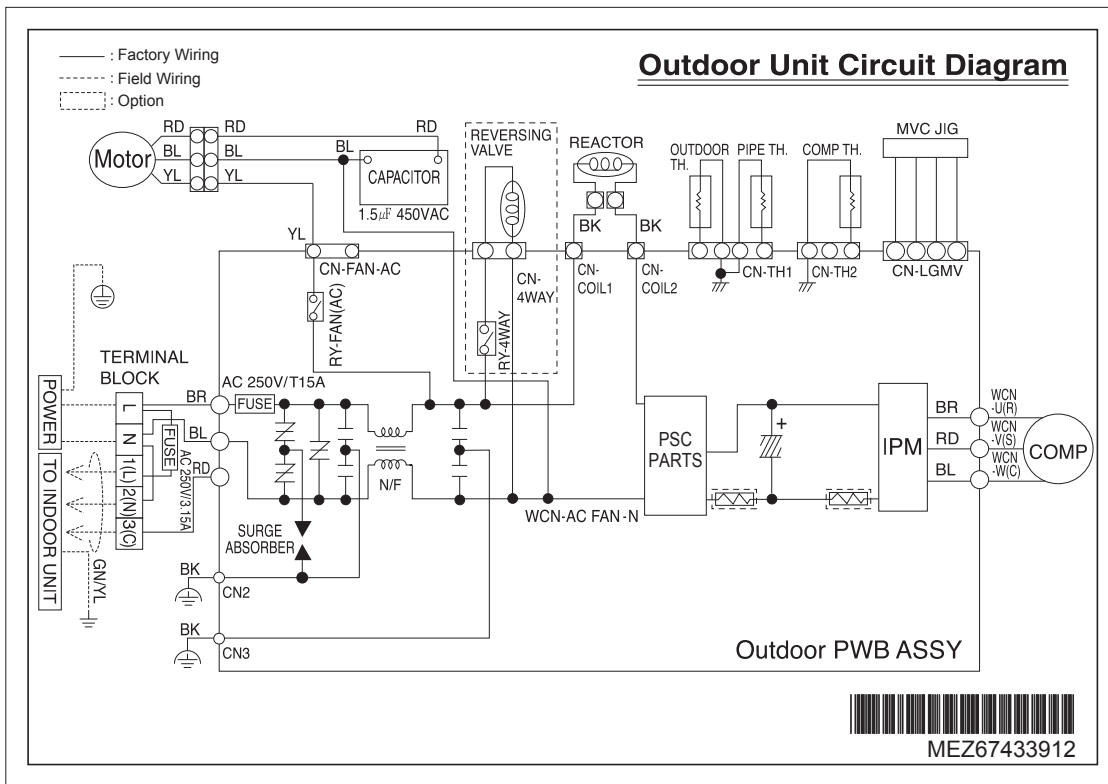
Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	4 Way Valve
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

4. Wiring Diagrams

Indoor Unit

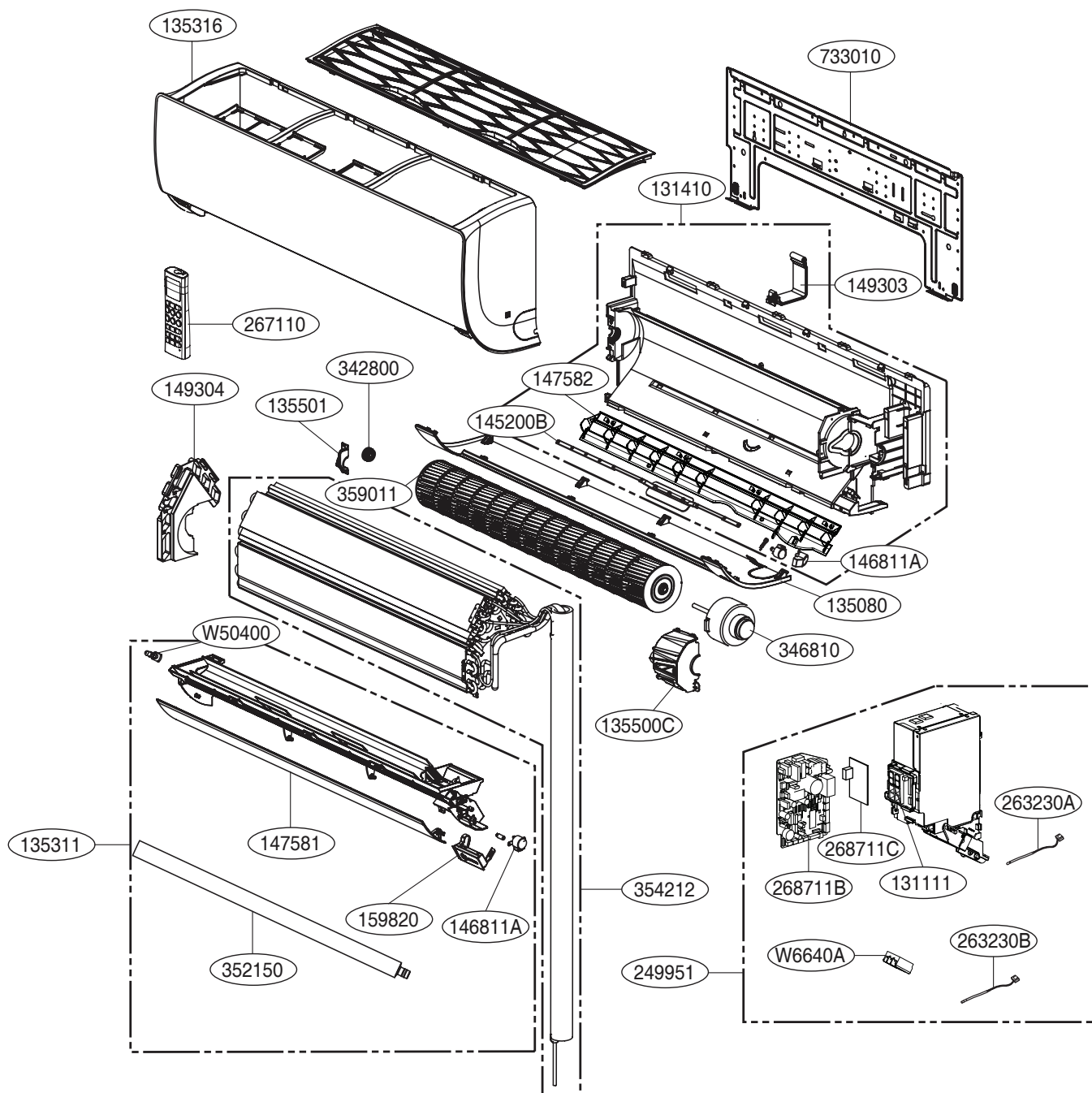


Outdoor Unit

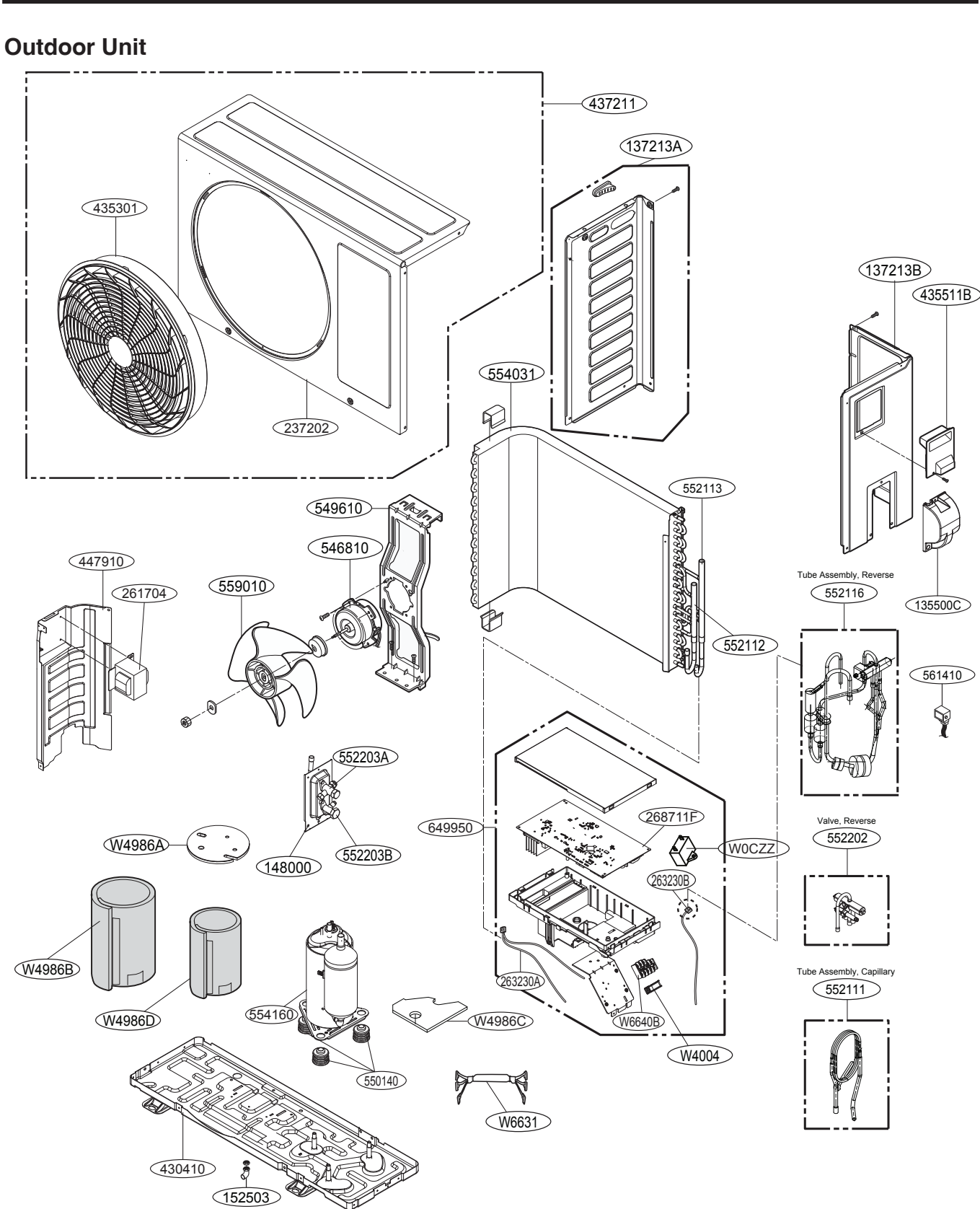


5. Exploded View

Indoor Unit



LOC.	Description	PCB Connector
263230A	Thermistor for indoor air temperature	CN-TH1 (INDOOR)
263230B	Thermistor for evaporator middle temperature	CN-TH3 (INDOOR)



LOC.	Description	PCB Connector
263230A	Thermistor for condensing temperature	CN-TH1 (OUTDOOR)
	Thermistor for outdoor air temperature	
263230B	Thermistor for discharge pipe temperature	CN-TH2 (OUTDOOR)



Техника для климата

Доставляем оборудование по всей России от 3 дней транспортными компаниями. Реализуем проекты в десятках регионов — от Калининграда до Владивостока.

9600+

объектов и поставок

от 1 дня

отгрузки в транспортную компанию

Технические данные файла

Документ: Сервисная инструкция LG ProCool

Идентификатор библиотеки: LIB-003541

Исходный файл: lg-procool-servisnaya-instruktsiya.pdf

SHA-256 оригинала: b8826baf2403526ef07963d6b53e1c682a5036eb82231e2df416b38bd52cca63

Постоянная ссылка: <https://iclim.ru/library/lg-procool-servisnaya-instruktsiya.pdf>

Копия сформирована: 02.10.2026 06:50 UTC