



CONFIDENTIAL

Room Air Conditioner

SVC MANUAL (Exploded View)

MODEL : S4-W12JA1ZD.EC6GERU (B12TS.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	B12TS.SSJ (B12TS.NSJ / B12TS.UA3) S4-W12JA12D (S4NW12JA12D / S4UW12JA12D)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.88	3.52	3.87
			Btu/h	3,000	12,000	13,200
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
	Heating	Min ~ Rated ~ Max	kW	0.88	3.52	4.04
			Btu/h	3,000	12,000	13,800
Power Input	Cooling	Min ~ Rated ~ Max	kW	-	-	-
			W	140	1,085	1,400
	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	-
			W	140	975	1,550
	Heating	Min ~ Rated ~ Max	A	0.70	5.00	6.50
			A	-	-	-
Running Current	Cooling (T3)	Min ~ Rated ~ Max	A	-	-	-
			A	0.70	4.80	7.50
	Heating	Min ~ Rated ~ Max	A	-	-	-
			A	0.70	4.80	7.50
	Heating -7 °C	Max	kW	-	-	-
			W	140	1,085	1,400
EER	Cooling	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
	Heating	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
SEER	Cooling	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
	Heating	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
COP	Cooling	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
	Heating	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
SCOP	Cooling	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
	Heating	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
Energy Label Grade	Cooling / Heating	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
	Cooling (T3) / Heating	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
	Cooling / Heating	Min ~ Rated ~ Max	W/W	-	-	-
			(Btu/h)/W	-	-	-
Annual Energy Consumption	Cooling / Heating	Min ~ Rated ~ Max	kWh/year	-	-	-
			kWh/year	-	-	-
	Cooling (T3) / Heating	Min ~ Rated ~ Max	kWh/year	-	-	-
			kWh/year	-	-	-
	Cooling / Heating	Min ~ Rated ~ Max	kWh/year	-	-	-
			kWh/year	-	-	-
Power Supply	Cooling / Heating	Min ~ Rated ~ Max	Ø, V, Hz	-	-	-
			Ø, V, Hz	-	-	-
	Cooling (T3) / Heating	Min ~ Rated ~ Max	Ø, V, Hz	-	-	-
			Ø, V, Hz	-	-	-
	Cooling / Heating	Min ~ Rated ~ Max	Ø, V, Hz	-	-	-
			Ø, V, Hz	-	-	-
Available Voltage Range	Cooling / Heating	Min ~ Rated ~ Max	%	-	-	-
			%	-	-	-
	Cooling (T3) / Heating	Min ~ Rated ~ Max	%	-	-	-
			%	-	-	-
	Cooling / Heating	Min ~ Rated ~ Max	%	-	-	-
			%	-	-	-
Moisture Removal	Cooling / Heating	Min ~ Rated ~ Max	l/h	-	-	-
			l/h	-	-	-
	Cooling (T3) / Heating	Min ~ Rated ~ Max	l/h	-	-	-
			l/h	-	-	-
	Cooling / Heating	Min ~ Rated ~ Max	l/h	-	-	-
			l/h	-	-	-
Indoor	Air Flow Rate	Max / H / M / L	m³/min	-	-	-
			m³/min	-	-	-
	Sound Pressure Level	Max / H / M / L / SL	dB(A)	-	-	-
			dB(A)	-	-	-
	Sound Power Level	Max / H / M / L	dB(A)	-	-	-
			dB(A)	-	-	-
	Dimensions (W × H × D)	Net	mm	-	-	-
			mm	-	-	-
	Weight	Net	kg	-	-	-
			kg	-	-	-
	Exterior Color Code	-	-	-	-	-
			-	-	-	-
Outdoor	Air Flow Rate	Max	m³/min	-	-	-
			m³/min	-	-	-
	Fan Motor Speed	Cooling, Min ~ Max	rpm	-	-	-
			rpm	-	-	-
	Sound Pressure Level	Cooling, Rated	dB(A)	-	-	-
			dB(A)	-	-	-
	Sound Power Level	Cooling, Rated	dB(A)	-	-	-
			dB(A)	-	-	-
	Dimensions (W × H × D)	Net	mm	-	-	-
			mm	-	-	-
	Weight	Net	kg	-	-	-
			kg	-	-	-
Circuit Breaker	Max. Fuse Size	-	A	-	-	-
			A	-	-	-
	Exterior Color Code	-	-	-	-	-
			-	-	-	-
	Operation Range	Cooling	°C DB	-	-	-
			°C DB	-	-	-
	Heating	Cooling	°C DB	-	-	-
			°C DB	-	-	-
	Heating	Cooling	°C DB	-	-	-
			°C DB	-	-	-
	Heating	Cooling	°C DB	-	-	-
			°C DB	-	-	-
Power Supply Cable	Power Supply to Unit	-	No. × mm²	-	-	-
			No. × mm²	-	-	-
	Power and Communication Cable	-	No. × mm²	-	-	-
			No. × mm²	-	-	-
	Piping	Liquid	mm	-	-	-
			mm	-	-	-
	Connections Method	Indoor / Outdoor	mm	-	-	-
			mm	-	-	-
	Drain Hose Size	O.D. I.D.	mm	-	-	-
			mm	-	-	-
	Between Indoor & Outdoor	Piping Length	m	-	-	-
			m	-	-	-
Refrigerant	Max. Elevation Difference	No Charge	m	-	-	-
			m	-	-	-
	Piping Connection Heat Insulation	-	-	-	-	-
			-	-	-	-
	Type	-	-	-	-	-
			-	-	-	-
	Pre Charge	-	g	-	-	-
			g	-	-	-
	Additional Charge	-	g/m	-	-	-
			g/m	-	-	-
	Control	-	-	-	-	-
			-	-	-	-
Defrost Method	Global Warning Potential	-	-	-	-	-
			-	-	-	-
	t-CO ₂ eq	-	-	-	-	-
			-	-	-	-
	Tool Code (Chassis)	Indoor / Outdoor	-	-	-	-
			-	-	-	-
	Type	-	-	-	-	-
			-	-	-	-
	Model	-	-	-	-	-
			-	-	-	-
	Motor Type	-	-	-	-	-
			-	-	-	-
Compressor	Oil Type / Maker	-	-	-	-	-
			-	-	-	-
	Oil Charge	-	cc	-	-	-
			cc	-	-	-
	O.L.P. Name	-	-	-	-	-
			-	-	-	-
	Manufacturer / Country of Origin	-	-	-	-	-
			-	-	-	-
	Type	-	-	-	-	-
			-	-	-	-
	Motor Output	-	W	-	-	-
			W	-	-	-
Fan(Indoor)	Type	-	-	-	-	-
			-	-	-	-
	Motor Type	-	-	-	-	-
			-	-	-	-
	Motor Output	-	W	-	-	-
			W	-	-	-
	Motor Insulation	-	-	-	-	-
			-	-	-	-
	Motor Enclosure / Ingress Protection	-	-	-	-	-
			-	-	-	-
	Material, Tube / Fin	-	-	-	-	-
			-	-	-	-
Heat Exchanger	Evaporator	-	-	-	-	-
			-	-	-	-
	Condenser	-	-	-	-	-
			-	-	-	-
	Material, Tube / Fin	-	-	-	-	-
			-	-	-	-
	Corrosion Protection	-	-	-	-	-
			-	-	-	-
	Fin Type	-	-	-	-	-
			-	-	-	-
	Material, Tube / Fin	-	-	-	-	-
			-	-	-	-

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	B12TS
		S4-W12JA1ZD
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
	Handheld Wireless Controller	Setting Temperature Range (Cooling) 18~30 °C (64~86 °F) Setting Temperature Range (Heating) 16~30 °C (60~86 °F)
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
	Smart Inverter Monitoring System (SIMs) ²	X
Others	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.

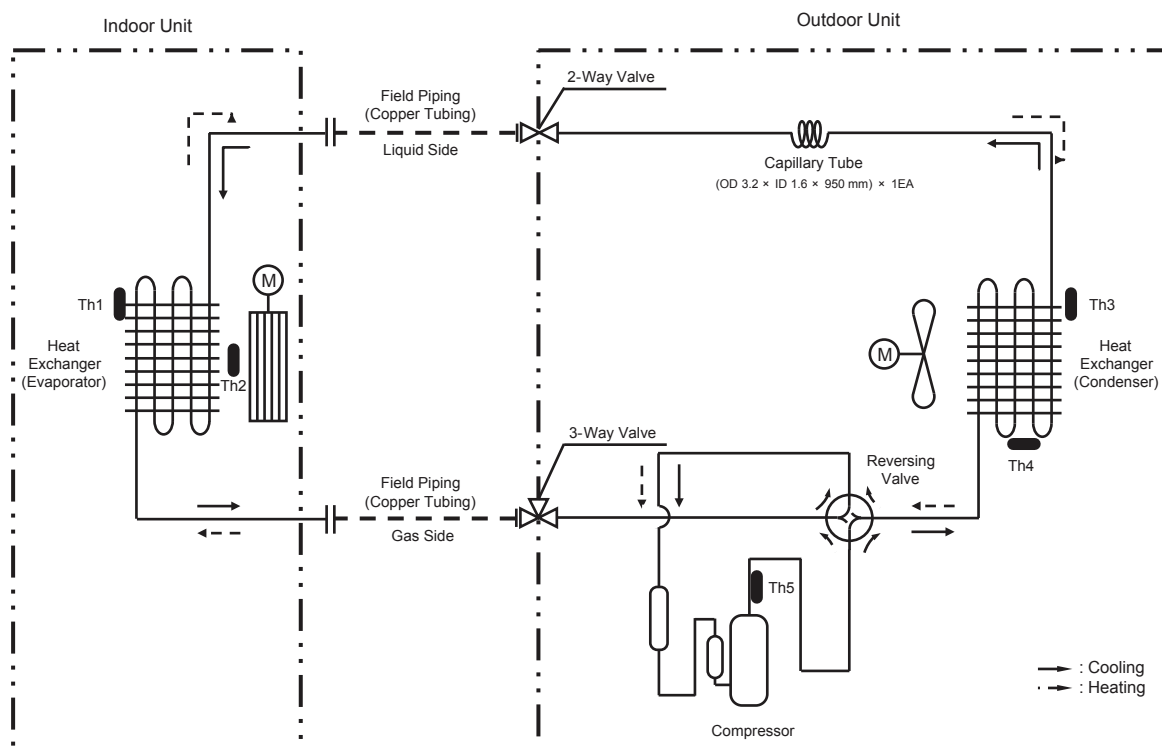
* ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.

* 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-W12JA1ZD



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)

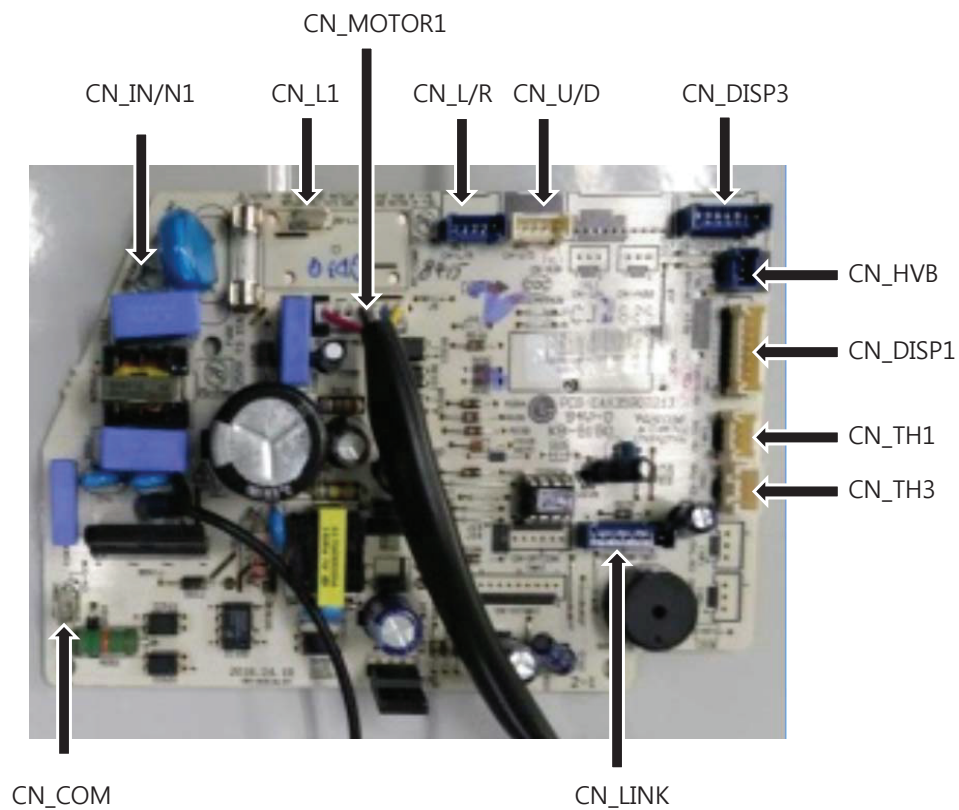
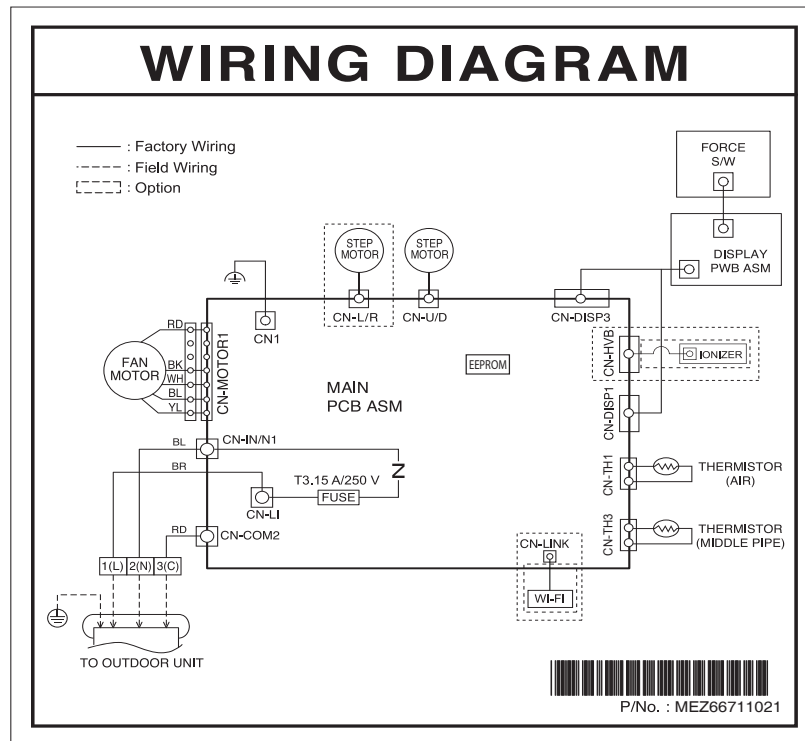
■ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid	
	mm	inch	mm	inch
S4-W12JA1ZD	Ø 9.52	Ø 3/8	Ø 6.35	Ø 1/4

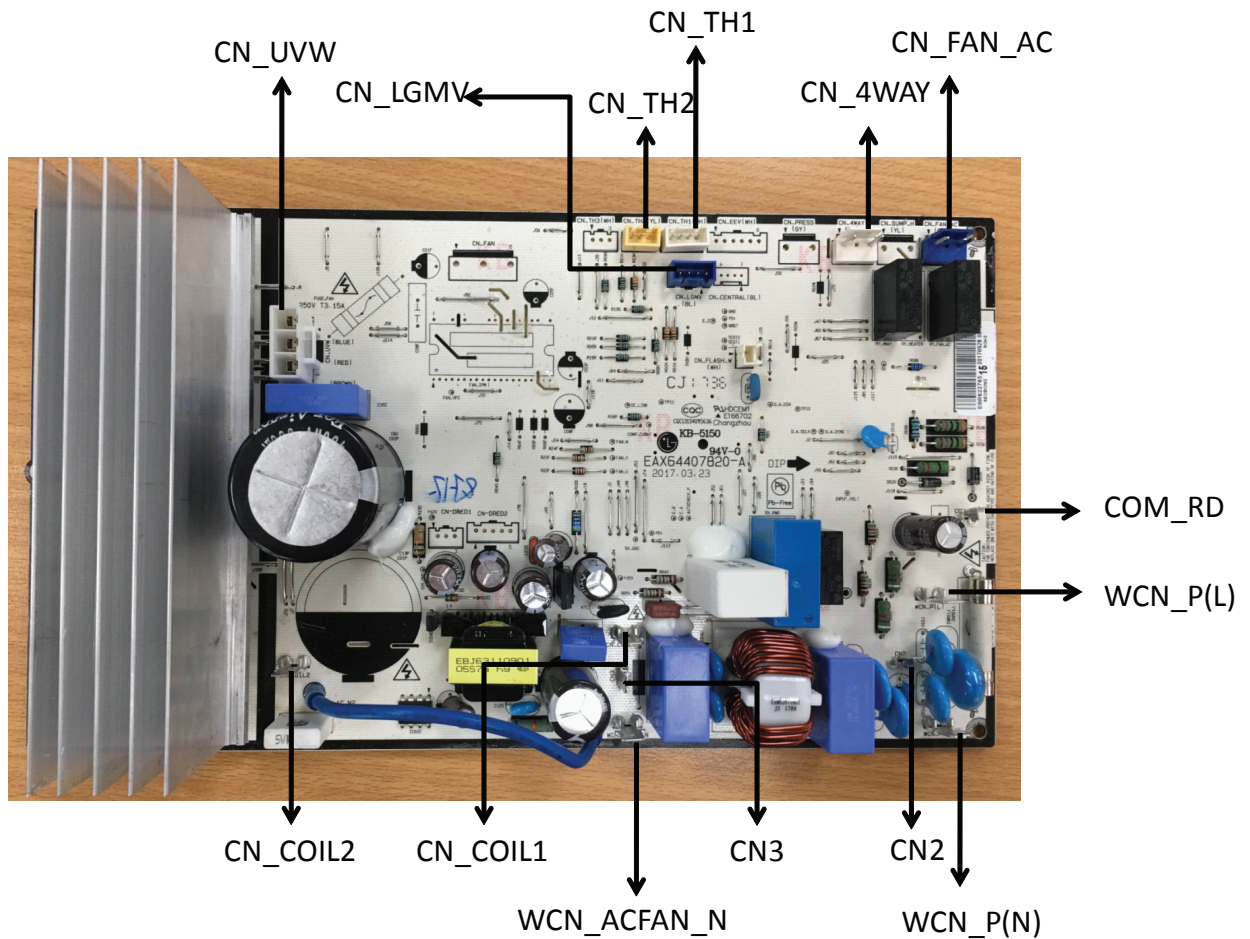
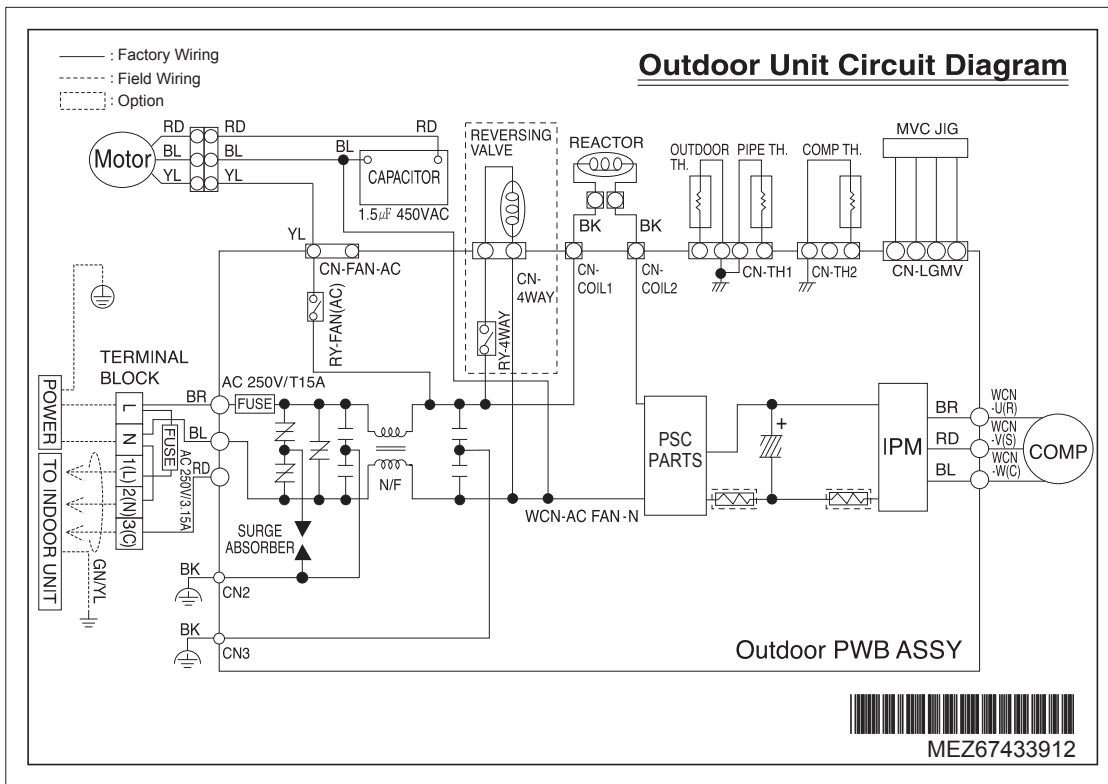
Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	4 Way Valve
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

4. Wiring Diagrams

Indoor Unit

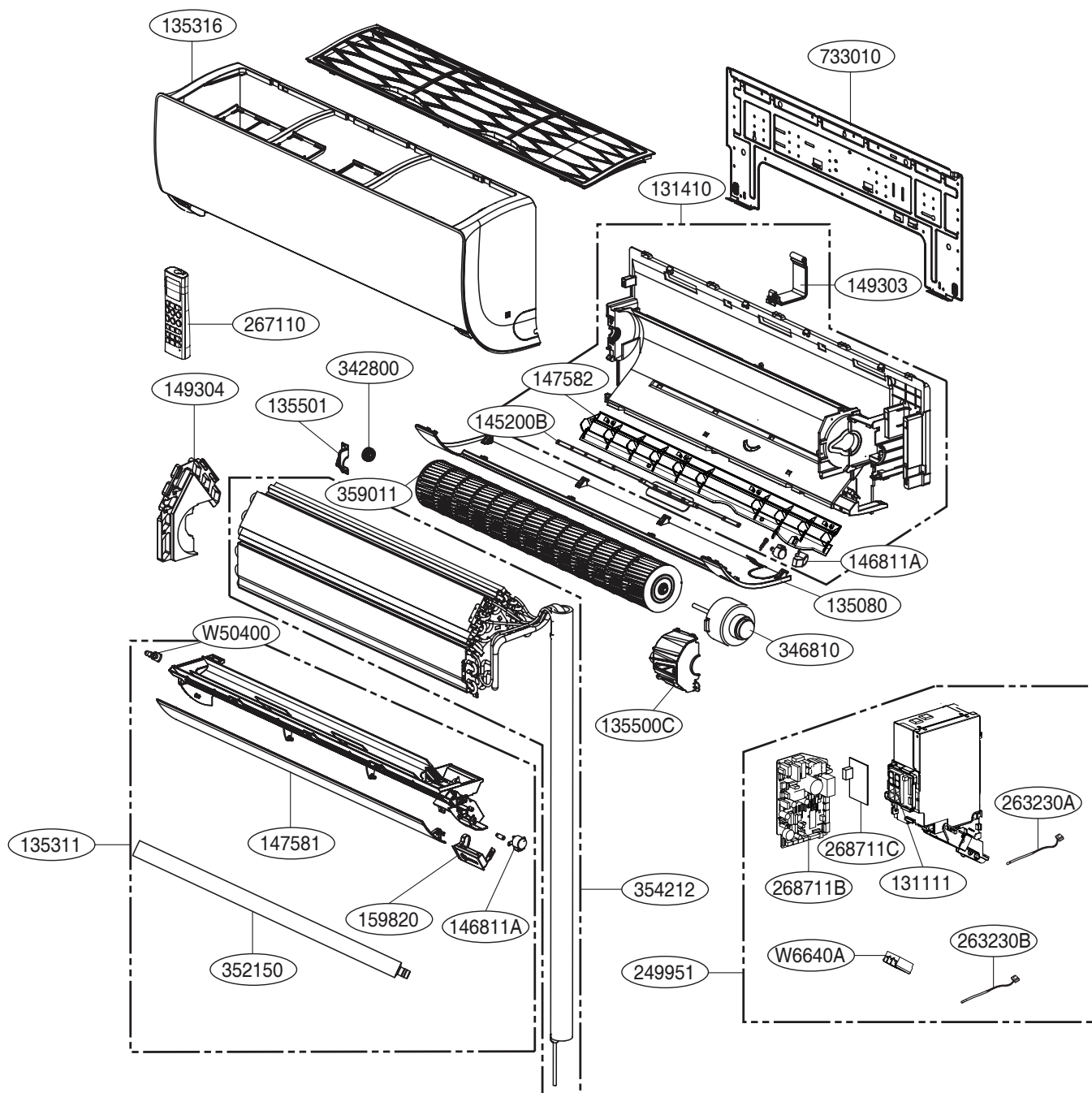


Outdoor Unit

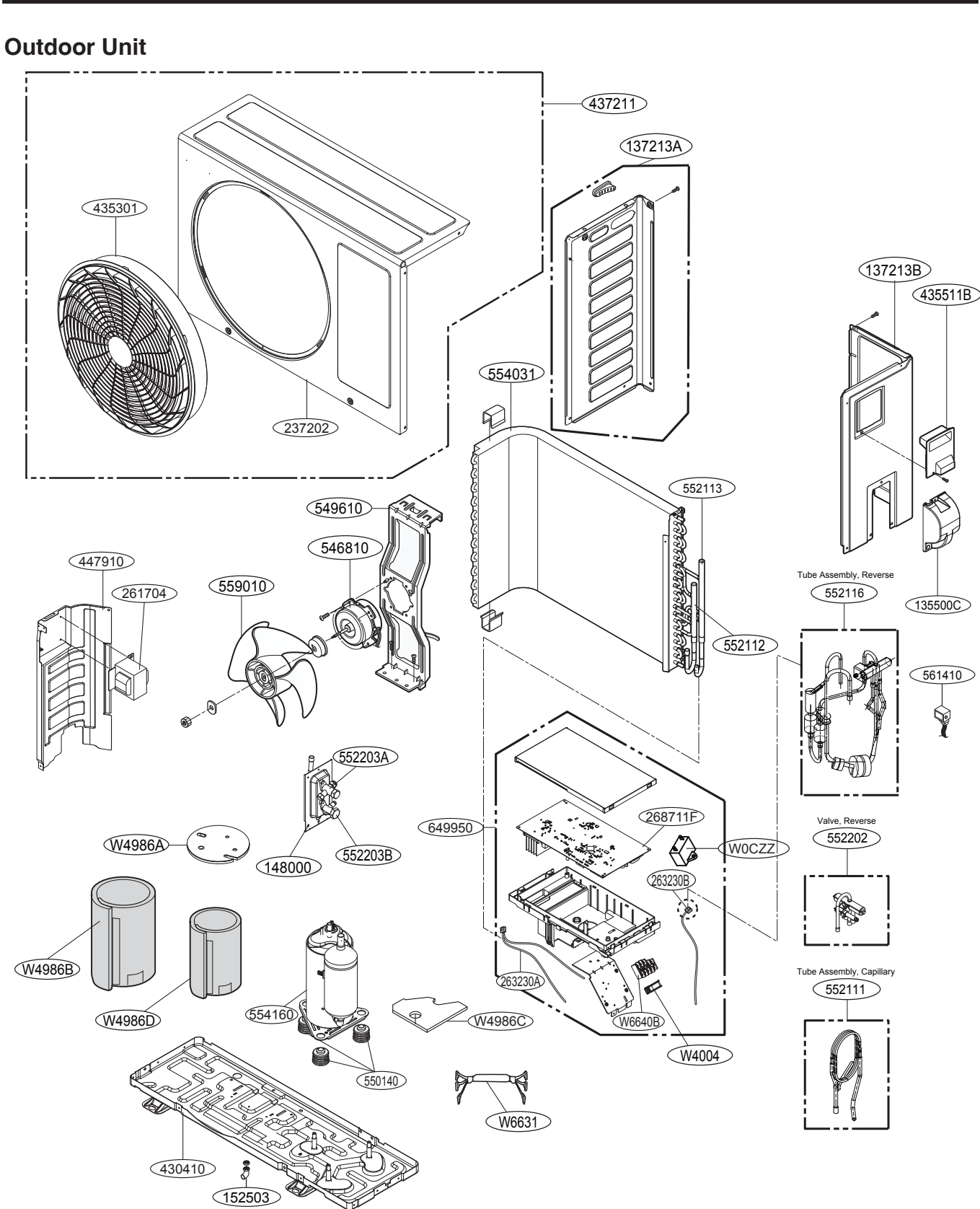


5. Exploded View

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)



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Техника для климата

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

9600+

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Технические данные файла

Документ: Сервисная инструкция LG B12TS

Идентификатор библиотеки: LIB-003562

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SHA-256 оригинала: 73ec906a009220cbf128728d4c09238e0fbb435a5f34a7ad80c041dfaaf907af

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