

Room Air Conditioner

SVC MANUAL(Exploded View)

MODEL : AMNW07GDJB0 (LMN079HVT)
S4NW09JL1DA (LSN090HSV5)
S4NW12JL1DA (LSN120HSV5)
AMNW15GDJB0 (LMN159HVT)
S4NW18KP1DA (LSN180HSV5)
AMNW24GDKB0 (LMN249HVT)
S4NW09JLRDA (LAN090HSV5)
S4NW12JLRDA (LAN120HSV5)
S4NW18KPRDA (LAN180HSV5)

CAUTION

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

1. Specification

Indoor

Model Name			AMNW07GDJB0 (LMN079HVT)	S4NW09JL1DA (LSN090HSV5)	S4NW12JL1DA (LSN120HSV5)	AMNW15GDJB0 (LMN159HVT)	S4NW18KP1DA (LSN180HSV5)	AMNW24GDKB0 (LMN249HVT)
Power Supply		V / Ø / Hz	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60
Capacity	Cooling	kW	2.1	2.6	3.5	4.2	5.3	7.0
		Btu/h	7,000	9,000	12,000	14,300	18,000	24,000
	Heating	kW	2.4	3.2	4.0	4.6	6.3	7.5
		Btu/h	8,100	10,900	13,600	15,600	21,600	25,600
Power Input	Max.	W	30	30	30	30	60	60
Running Current	Max.	A	0.4	0.4	0.4	0.4	0.4	0.4
Casing Color		-	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W x H x D	mm	837 x 308 x 189	837 x 308 x 189	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210
		W x H x D	inch	32-15/16 x 12-1/8 x 7-7/16	32-15/16 x 12-1/8 x 7-7/16	32-15/16 x 12-1/8 x 7-7/16	32-15/16 x 12-1/8 x 7-7/16	39-9/32 x 13-19/32 x 8-9/32
	Shipping	W x H x D	mm	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249	1,063 x 420 x 274
		W x H x D	inch	35-1/8 x 15 x 9-13/16	35-1/8 x 15 x 9-13/16	35-1/8 x 15 x 9-13/16	35-1/8 x 15 x 9-13/16	41-27/32 x 16-17/32 x 10-25/32
Net Weight	Body	kg (lbs)	8.3 (18.3)	8.3 (18.3)	8.3 (18.3)	8.3 (18.3)	11.6 (25.6)	11.6 (25.6)
	Shipping	kg (lbs)	10.6(23.4)	10.6(23.4)	10.6(23.4)	10.6(23.4)	14.6 (32.2)	14.6 (32.2)
Heat Exchanger	(Row x Column x Fins per nch) x No.	-	(2 x 23 x 22) x 1	(2 x 23 x 22) x 1	(2 x 23 x 22) x 1	(2 x 23 x 22) x 1	(2 x 16 x 20) x 1	(2 x 16 x 20) x 1
Fan	Type		-	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	7.2 / 5.8 / 4.6	7.6 / 6.2 / 4.8	8.0 / 6.6 / 5.0	8.9 / 7.6 / 5.2	15.8 / 12.4 / 10.0
		H / M / L	ft ³ /min	254 / 204 / 148	268 / 218 / 169	282 / 233 / 177	314 / 268 / 184	558 / 438 / 353
Fan Motor	Type		-	BLDC	BLDC	BLDC	BLDC	BLDC
	Output		W x No.	30 x 1	30 x 1	30 x 1	30 x 1	60 x 1
Sound Pressure Level	H / M / L	dB(A)	35 / 31 / 26	36 / 32 / 27	38 / 34 / 29	42 / 38 / 32	44 / 38 / 34	46 / 41 / 36
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)
	Drain	(O.D. / I.D.)	mm	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Safety Devices		-	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse
		-	Thermal Preotector for Fan Motor	Thermal Preotector for Fan Motor	Thermal Preotector for Fan Motor	Thermal Preotector for Fan Motor	Thermal Preotector for Fan Motor	Thermal Preotector for Fan Motor
Connective Method		-	Flared	Flared	Flared	Flared	Flared	Flared
Power and Communication Cable (included Earth)		No. x mm ² (AWG)	4C x 1.0 (18)	4C x 1.0 (18)	4C x 1.0 (18)	4C x 1.0 (18)	4C x 1.0 (18)	4C x 1.0 (18)

Note:

- Capacities are based on the following conditions:
Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
- Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
- Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
Piping Length - Interconnecting Piping Length 7.5m
- Level Difference of Zero

- Wiring cable size must comply with the applicable local and national code.
- The specification may be subject to change without prior notice for purpose of improvement.

Conversion Formula

$$\text{kW} = \text{Btu/h} \times 0.0002931$$

$$\text{cfm} = \text{CMM} \times 35.3$$

Indoor

Model Name			S4NW09JLRDA (LAN090HSV5)	S4NW12JLRDA (LAN120HSV5)	S4NW18KPRDA (LAN180HSV5)
Power Supply		V / Ø / Hz	208/230,1,60	208/230,1,60	208/230,1,60
Capacity	Cooling	kW	2.6	3.5	5.3
		Btu/h	9000	12000	18000
	Heating	kW	3.2	4.0	6.3
		Btu/h	10900	13600	21600
Power Input	Max.	W	30	30	60
Running Current	Max.	A	0.4	0.4	0.4
Casing Color		-	Munsell 7.5PB 0.2/20 (RAL 9005)	Munsell 7.5PB 0.2/20 (RAL 9005)	Munsell 7.5PB 0.2/20 (RAL 9005)
Dimensions	Body	W x H x D	mm	837 x 308 x 192	998 x 345 x 212
		W x H x D	inch	32-15/16 x 12-1/8 x 7-9/16	39-9/32 x 13-19/32 x 8-11/32
	Shipping	W x H x D	mm	914 x 388 x 261	1085 x 427 x 286
		W x H x D	inch	35-31/32 x 15-9/32 x 10-9/32	42-23/32 x 16-13/16 x 11-1/4
Net Weight	Body	kg (lbs)	9.3 (20.5)	9.3 (20.5)	13.5 (29.8)
	Shipping	kg (lbs)	11.6 (25.6)	11.6 (25.6)	16.5 (36.4)
Heat Exchanger	(Row x Column x Fins per nch) x No.		-	(2 x 23 x 22) x 1	(2 x 16 x 20) x 1
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m³/min	7.6 / 6.2 / 4.8	15.8 / 12.4 / 10.0
		H / M / L	ft³/min	268 / 218 / 169	558 / 438 / 353
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 x 1	60 x 1
Sound Pressure Level		H / M / L	dB(A)	36 / 32 / 27	44 / 38 / 34
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 12.7 (1/2)
	Drain	(O.D. / I.D.)	mm	21.5 / 16.0	21.5 / 16.0
Safety Devices		-	Fuse	Fuse	Fuse
		-	Thermal Preotector for Fan Motor	Thermal Preotector for Fan Motor	Thermal Preotector for Fan Motor
Connective Method		-	Flared	Flared	Flared
Power and Communication Cable (included Earth)		No. x mm² (AWG)	4C x 1.0 (18)	4C x 1.0 (18)	4C x 1.0 (18)

Note:

1. Capacities are based on the following conditions:

Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB

- Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB

Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB

- Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB

Piping Length - Interconnecting Piping Length 7.5m

- Level Difference of Zero

2. Wiring cable size must comply with the applicable local and national code.

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

Conversion Formula

kW = Btu/h x 0.0002931

cfm = CMM x 35.3

2. Function

Category	Function	AMNW07GDB0(LMN079HVT) / S4NW09JL1DA(LSN090HSV5) S4NW12JL1DA(LSN120HSV5) / AMNW15GDB0(LMN159HVT) S4NW18KP1DA (LSN180HSV5) / AMNW24GDKB0(LMN249HVT) S4NW09JLRDA(LAN090HSV5) / S4NW12JLRDA(LAN120HSV5) S4NW18KPRDA(LAN180HSV5)
Air Flow	Air Supply Outlet	1
	Airflow Direction Control (Left & Right)	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps
	Auto Swing (Left & Right)	O
	Auto Swing (Up & Down)	O
	Fan Speed Steps (Fan / Cool / Heat)	6/6/06
	Natural Wind (Auto Wind)	O
	Jet Cool / Jet Heat (Power Wind)	O / O
Air Purifying	Comfort Air	O
	Pre-filter (Washable / Anti-Bacteria)	X
	Deodorizing Filter (Triple)	X
	3M Micro Dust Filter	X
	3M Multi Protection Filter	X
Installation	Plasma Air Purifier(Ionizer)	X
	Drain Pump	X
Reliability	Hot Start	O
	Self Diagnosis	O
	De-ice Control (Defrost)	O
	Dry (Dehumidification) Operation	O
Convenience	Auto Changeover	X
	Auto Operation (Artificial Intelligence)	O
	Auto Cleaning (Coil Dry)	O
	Auto Restart Operation	O
	Child Lock ¹	O
	Forced Operation	O
	Group Control ¹	O
	Sleep Mode	7hr
	Timer 24hr (On/Off)	O
	Timer (Weekly) ¹	O
	Two Thermistor Control ¹	O
	Low Ambient Operation	O
	Overheating Protection	O
	Low Heating	O
	Voice Control	X
	Smart Scan (PIR)	X
	LG AC Tag On (NFC)	X
	Outdoor Silent Mode	X
	Mosquito Away	X
	Smart Diagnosis	O
	Indoor Unit Display Type	Number Display
	Indoor Unit Display Light	On/Off
	Energy Display	X
Energy Saving	Energy Saving	X
	Active Energy Control (Watt Option)	X
	Gen Mode	X
Individual Control	Wired Remote Controller (Premium) ²	PREMTA000A
	Wired Remote Controller (Standard) ²	PREMTB10U
	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) AKB74955602
		Setting Temperature Range (Cooling) 18~30 °C
CAC Network Function		Setting Temperature Range (Heating) 16~30 °C
	General Central Controller (Non LGAP)	X
	Network Solution (LGAP)	O
	Dry Contact ²	O
	PDI (Power Distribution Indicator) ²	X
Special Function Kit	Outdoor Unit PI 485 ²	PMNFP14A0
	Wi-Fi ²	O
	Water Level Sensor Connection ²	O
	Wind Baffle Kit ²	X
	Sump Heater	X
	Aux Heat Relay Kit	O
	Crank Case Heater	X
	Smart Invert Monitoring System (SIMs) ²	X
Others	Mode Lock	Heating Only
	Temperature Control	Thermistor
	DRED (Demand Response Enabling Device)	X

Note

O : Applied, X : Not available

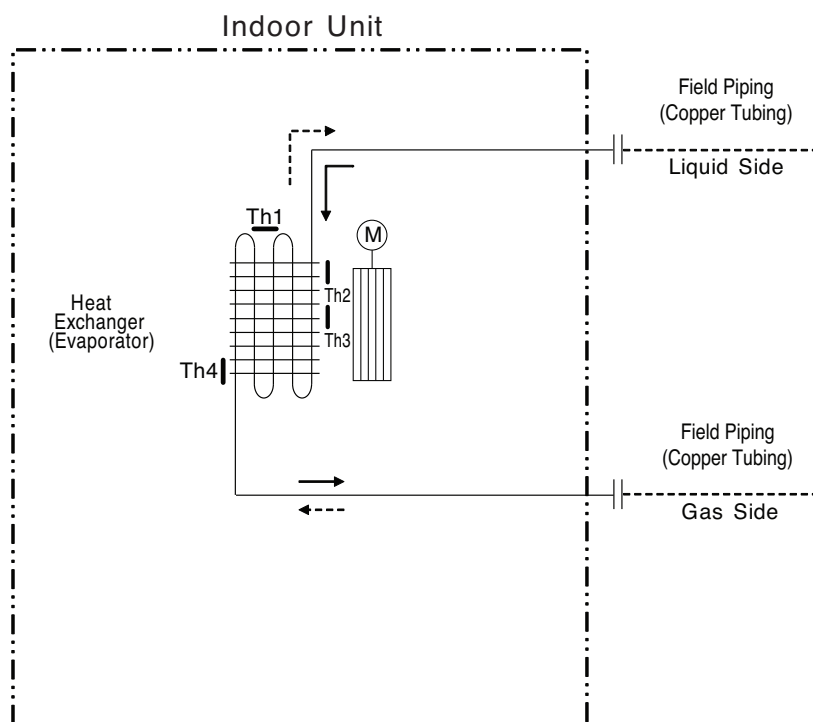
• Filters are optional in some specific areas.

• 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.

3. Refrigerant Cycle Diagram

Model : AMNW07GDJB0(LMN079HVT) / S4NW09JL1DA(LSN090HSV5) / S4NW12JL1DA(LSN120HSV5) / AMNW15GDJB0(LMN159HVT) / S4NW18KP1DA (LSN180HSV5) / AMNW24GDKB0(LMN249HVT) / S4NW09JLRDA(LAN090HSV5) / S4NW12JLRDA(LAN120HSV5) / S4NW18KPRDA(LAN180HSV5)



LOC.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator inlet temperature	
Th3 ¹	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th4	Thermistor for evaporator outlet temperature	CN-TH2 (Indoor)

■ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid	
	mm	inch	mm	inch
AMNW07GDJB0(LMN079HVT), S4NW09JL1DA(LSN090HSV5), S4NW12JL1DA(LSN120HSV5), AMNW15GDJB0(LMN159HVT), S4NW09JLRDA(LAN090HSV5), S4NW12JLRDA(LAN120HSV5)	Ø 9.52	Ø 3/8	Ø 6.35	Ø 1/4
S4NW18KP1DA (LSN180HSV5), AMNW24GDKB0(LMN249HVT), S4NW18KPRDA(LAN180HSV5)	Ø 12.7	Ø 1/2	Ø 6.35	Ø 1/4

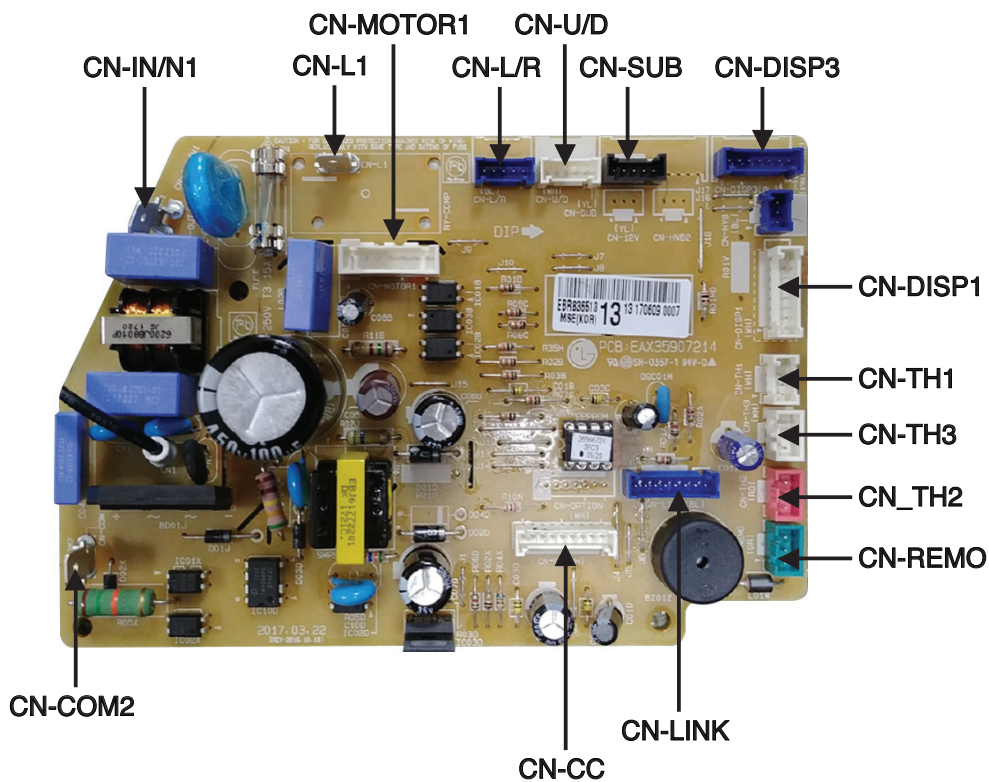
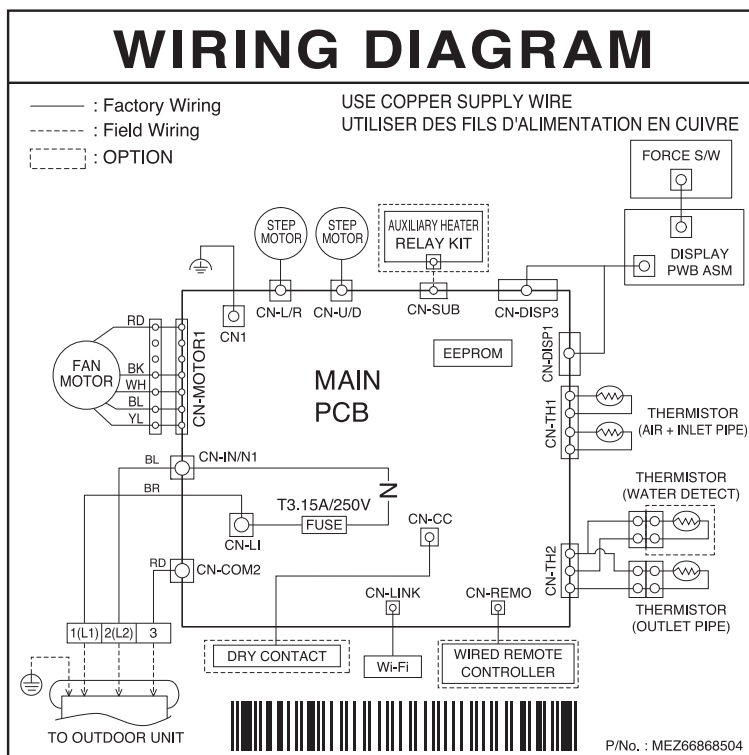
Note

* : AMNW07GDJB0(LMN079HVT), AMNW15GDJB0(LMN159HVT), AMNW24GDKB0(LMN249HVT)
Models are not Applied Mid-Temperature sensor.

4. Wiring Diagrams

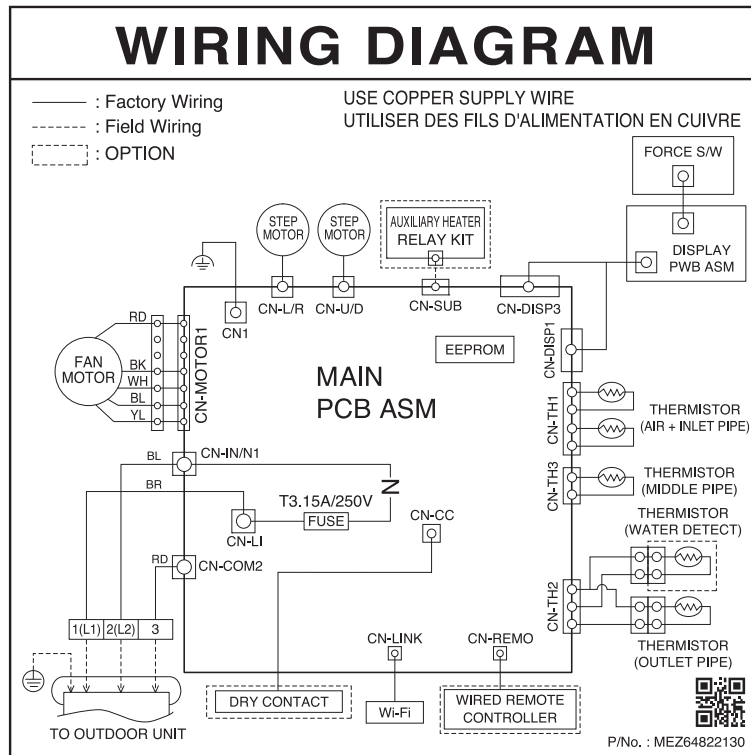
Indoor Unit

AMNW07GDJB0(LMN079HVT), AMNW15GDJB0(LMN159HVT), AMNW24GDKB0(LMN249HVT)

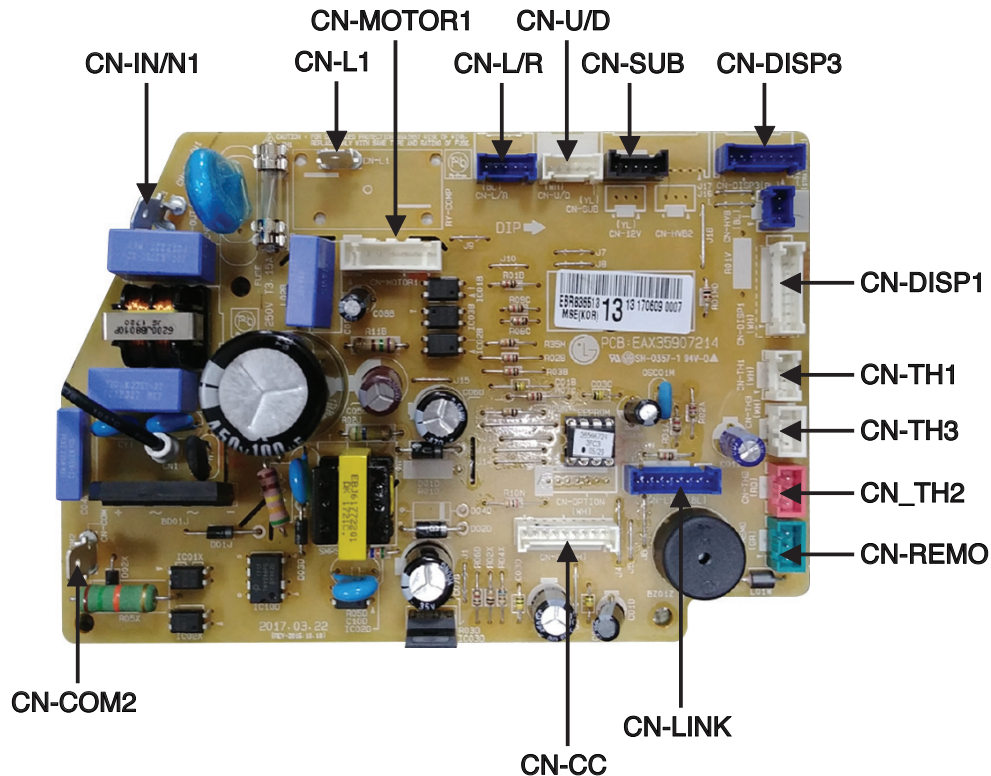


Indoor Unit

S4NW09JL1DA(LSN090HSV5), S4NW12JL1DA(LSN120HSV5), S4NW18KP1DA(LSN180HSV5),
S4NW09JLRDA(LAN090HSV5), S4NW12JLRDA(LAN120HSV5), S4NW18KPRDA(LAN180HSV5)

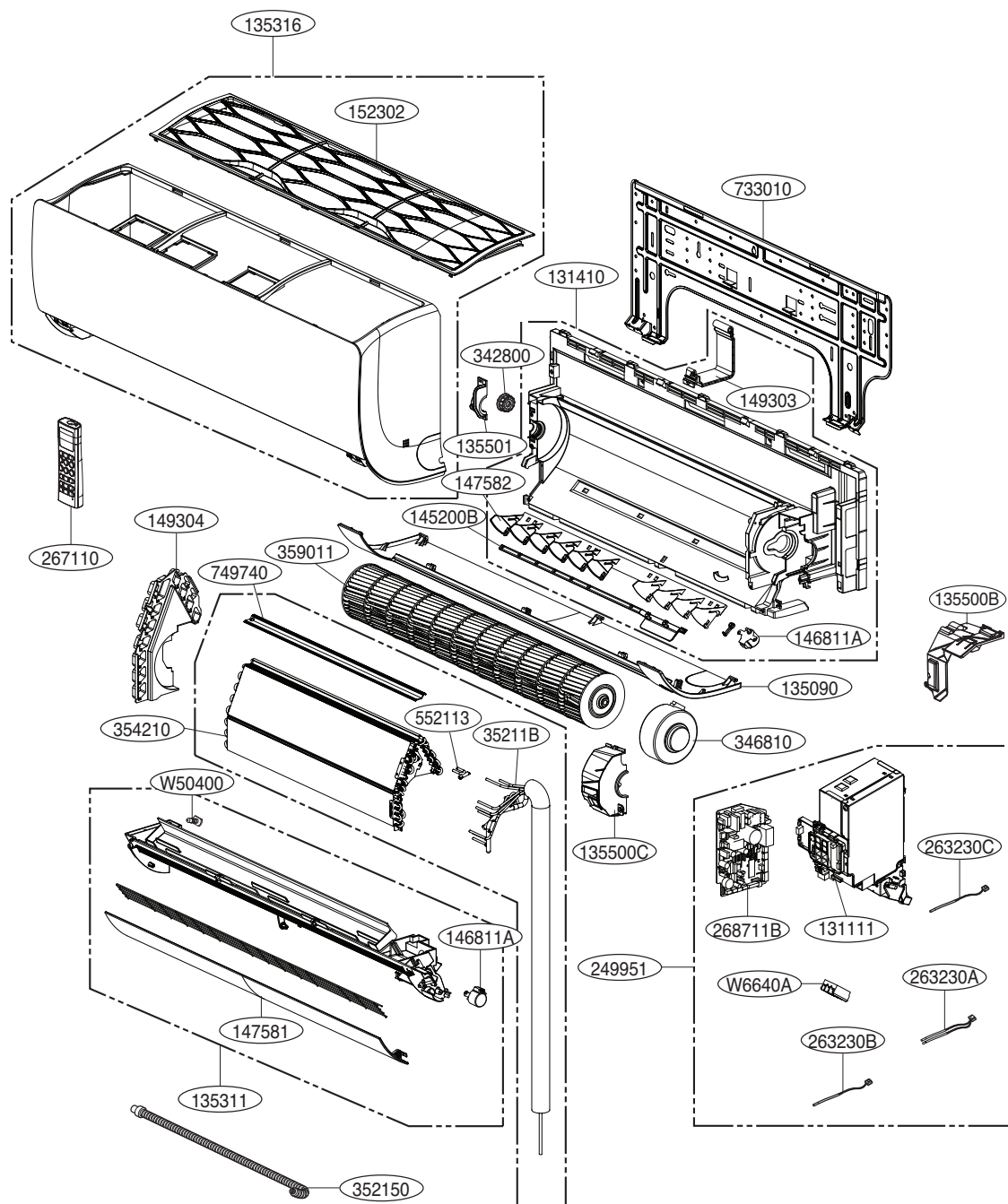


* Auxiliary heater relay kit is not available on single zone wall mounted models.



4. Exploded View

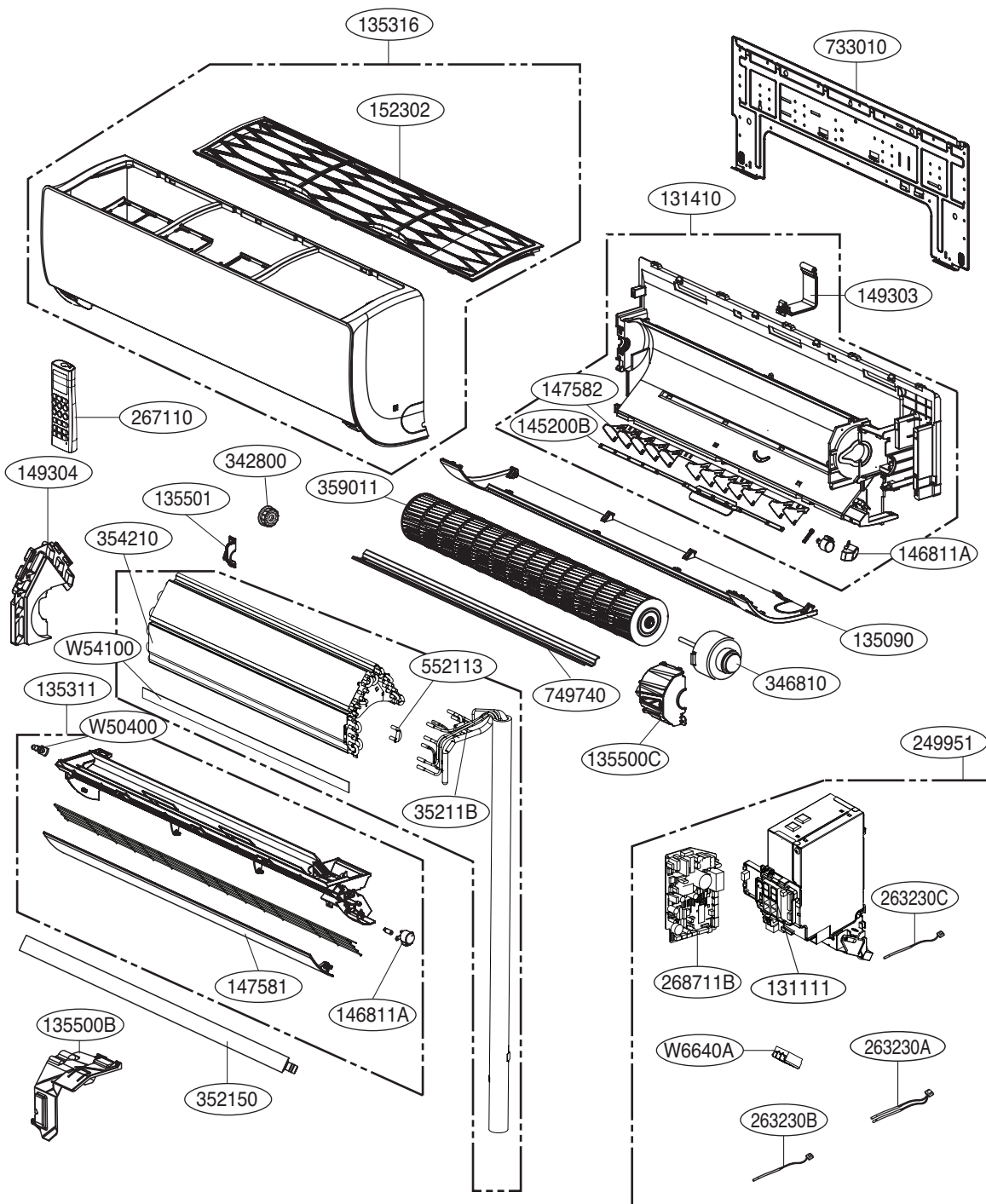
Indoor Unit: AMNW07GDJB0(LMN079HVT), S4NW09JL1DA(LSN090HSV5),
S4NW12JL1DA(LSN120HSV5), AMNW15GDJB0(LMN159HVT),
S4NW09JLRDA(LAN090HSV5), S4NW12JLRDA(LAN120HSV5)



LOC.	Description	Connector
263230A	Thermistor for indoor air temperature	CN-TH1
	Thermistor for evaporator inlet temperature	
263230B*	Thermistor for evaporator middle temperature	CN-TH3
263230C	Thermistor for evaporator outlet temperature	CN-TH2

Note) *: AMNW07GDJB0(LMN079HVT), AMNW15GDJB0(LMN159HVT)
Models are not Applied Mid-Temperature sensor(CN-TH3).

**Indoor Unit: S4NW18KP1DA (LSN180HSV5), AMNW24GDKB0(LMN249HVT),
S4NW18KPRDA(LAN180HSV5)**



LOC.	Description	Connector
263230A	Thermistor for indoor air temperature	CN-TH1
	Thermistor for evaporator inlet temperature	
263230B*	Thermistor for evaporator middle temperature	CN-TH3
263230C	Thermistor for evaporator outlet temperature	CN-TH2

Note) *: AMNW24GDKB0(LMN249HVT)
Models are not Applied Mid-Temperature sensor(CN-TH3).



P/NO : MFL70181204

January,2018