



Internal Use Only

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Multi V Air Conditioner

SVC MANUAL(Exploded View)

MODEL : ARNU073SE*2
ARNU093SE*2
ARNU123SE*2
ARNU153SE*2
ARNU183S3*2
ARNU243S3*2

CAUTION

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

1. Specification

Type			ART COOL Mirror		
Model		Unit	ARNU073SE*2	ARNU093SE*2	ARNU123SE*2
Cooling Capacity		kW	2.2	2.8	3.6
		kcal/h	1,900	2,400	3,100
		Btu/h	7,500	9,600	12,300
Heating Capacity		kW	2.5	3.2	4.0
		kcal/h	2,200	2,800	3,400
		Btu/h	8,500	10,900	13,600
Dimensions(WxDxH)	Body	mm	915x169x282	915x169x282	915x169x282
		inch	36.0x6.5x11.1	36.0x6.5x11.1	36.0x6.5x11.1
Coil	Rows x Columns x FPI		2x15x18	2x15x18	2x15x18
	Face Area	m²(ft²)	0.32	0.32	0.32
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W	20	20	20
	Running Current	A	0.3(3.2)	0.3(3.2)	0.3(3.2)
	Air Flow Rate(H/M/L)	CMM	7/6/4	8/7/5	10/8/6
		cfm	247/212/141	282/247/177	353/283/212
	Drive		Direct	Direct	Direct
	Motor type		BLDC	BLDC	BLDC
Temperature Control		Microprocessor, Thermostat for cooling and heating	Microprocessor, Thermostat for cooling and heating	Microprocessor, Thermostat for cooling and heating	
Sound Absorbing Thermal Insulation Material		Foamed polystyrene	Foamed polystyrene	Foamed polystyrene	
Air Filter		Resin Net(washable)	Resin Net(washable)	Resin Net(washable)	
Safety Device		Fuse	Fuse	Fuse	
Pipe Connections	Liquid Side	mm(inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)
	Gas Side	mm(inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)
	Drain Pipe(Internal Dia.)	mm(inch)	16(0.6)	16(0.6)	16(0.6)
Net Weight		kg(lbs)	11.2(24.7)	11.2(24.7)	11.2(24.7)
Noise Level(Sound Press, 1m, H/M/L)		dB(A)	37/33/23	39/35/25	41/36/27
Power Supply		Ø, V, Hz	1,208/230,60	1,208/230,60	1,208/230,60
Refrigerant Control		EEV	EEV	EEV	EEV
Power cable		mm²	CV1.5 x 3C	CV1.5 x 3C	CV1.5 x 3C
Transmission cable		mm²	CVV-SB 1.25 x 2C	CVV-SB 1.25 x 2C	CVV-SB 1.25 x 2C
Front Panel(** Position)		R:Mirror V:Silver B:Blue			

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m(24.6ft)
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m(24.6ft)
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without prior notification

4. To be added for more available Models

5. EEV : Electronic Expansion Valve

Conversion Formula

kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3
 l/s = CMM x 1000/60

Type			ART COOL Mirror		
Model		Unit	ARNU153SE*2	ARNU183S3*2	ARNU243S3*2
Cooling Capacity		kW	4.5	5.6	7.1
		kcal/h	3,900	4,800	6,100
		Btu/h	15,400	19,100	24,200
Heating Capacity		kW	5.0	6.3	8.0
		kcal/h	4,300	5,400	6,900
		Btu/h	17,100	21,500	27,300
Dimensions(WxDxH)	Body	mm	915x169x282	1,170x173x315	1,170x173x315
		inch	36.0x6.5x11.1	46.1x6.8x12.4	46.1x6.8x12.4
Coil	Rows x Columns x FPI		2x15x18	2x13x20	2x13x20
	Face Area	m²(ft²)	0.32	0.15	0.15
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W	20	20	20
	Running Current	A	0.3(3.2)	0.3(3.2)	0.3(3.2)
	Air Flow Rate(H/M/L)	CMM	10.5/8/6	12.6/11.5/10	15/14/13
		cfm	371/283/212	445/406/353	530/494/459
	Drive		Direct	Direct	Direct
	Motor type		BLDC	BLDC	BLDC
Temperature Control		Microprocessor, Thermostat for cooling and heating	Microprocessor, Thermostat for cooling and heating	Microprocessor, Thermostat for cooling and heating	
Sound Absorbing Thermal Insulation Material		Foamed polystyrene	Foamed polystyrene	Foamed polystyrene	
Air Filter		Resin Net(washable)	Resin Net(washable)	Resin Net(washable)	
Safety Device		Fuse	Fuse	Fuse	
Pipe Connections	Liquid Side	mm(inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)
	Gas Side	mm(inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø15.88(5/8)
	Drain Pipe(Internal Dia.)	mm(inch)	16(0.6)	16(0.6)	16(0.6)
Net Weight		kg(lbs)	11.2(24.7)	14.2(31.3)	14.2(31.3)
Noise Level(Sound Press, 1m, H/M/L)		dB(A)	42/36/27	42/40/37	44/41/38
Power Supply		Ø, V, Hz	1,208/230,60	1,208/230,60	1,208/230,60
Refrigerant Control			EEV	EEV	EEV
Power cable		mm²	CV1.5 x 3C	CV1.5 x 3C	CV1.5 x 3C
Transmission cable		mm²	CVV-SB 1.25 x 2C	CVV-SB 1.25 x 2C	CVV-SB 1.25 x 2C
Front Panel(** Position)			R:Mirror, W:White, D:Wood, B:Blue, M:Metal		

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
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5. EEV : Electronic Expansion Valve

Conversion Formula

kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3
 l/s = CMM x 1000/60

2. List of Functions

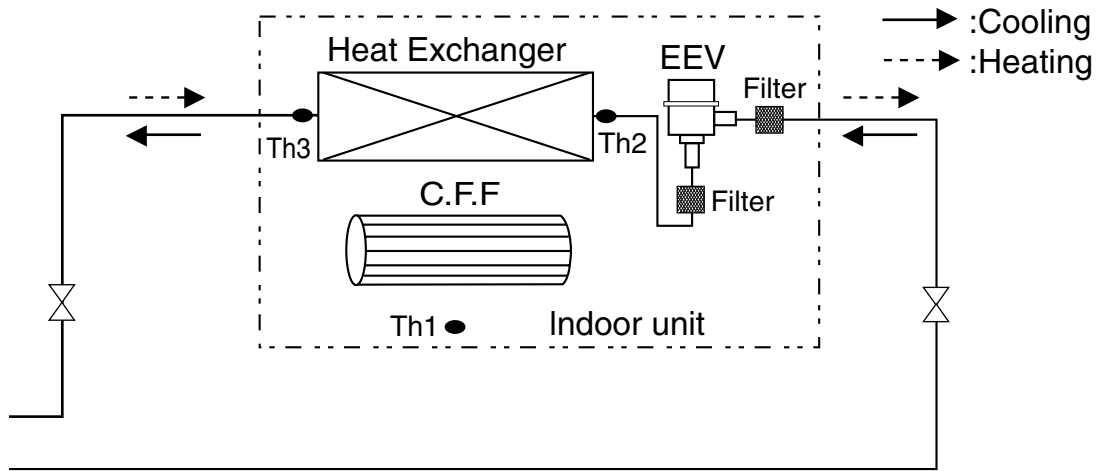
Category	Function	ARNU073SE*2, ARNU093SE*2, ARNU123SE*2 ARNU153SE*2, ARNU183S3*2, ARNU243S3*2
Air flow	Air supply outlet	1
	Airflow direction control(left & right)	auto
	Airflow direction control(up & down)	auto
	Auto swing(left & right)	auto
	Auto swing(up & down)	X
	Airflow steps(fan/cool/heat)	3/4/3
	Chaos swing	O
	Chaos wind(auto wind)	O
	Jet cool(Power wind)	O
	Swirl wind	-
Air purifying	Deodorizing filter	X
	Plasma air purifier	Option
	Prefilter(washable / anti-fungus)	O
Installation	Drain pump	-
	E.S.P. control	-
	Electric heater(operation)	-
	High ceiling operation	-
Reliability	Hot start	O
	Self diagnosis	O
	Soft dry operation	O
Convenience	Auto changeover	O(only heat recovery)
	Auto cleaning	O
	Auto operation(artificial intelligence)	O(only heat pump or cooling only)
	Auto restart operation	O
	Child lock	O
	Forced operation	O
	Group control	O
	Sleep mode	O
	Timer(on/off)	O
	Timer(weekly)	O
	Two thermistor control	O
Individual control	Standard wired remote controller	Accessory
	Wide Character wired remote controller	Accessory
	Picto wired remote controller	Accessory
	Deluxe wired remote controller	Accessory
	Simple wired remote controller	Accessory
	Wired remote controller(for hotel use)	Accessory
	Wireless remote controller(simple)	Accessory
Special function kit	Wireless LCD remote control	Accessory
	Zone control	-
	CTIE	-
	Electro thermostat	-

O : Applied X : Not applied - : No relation

Option : Model name & price are different according to options, and assembled in factory with main unit.

Accessory : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

3. Piping Diagrams



Refrigerant pipe connection port diameter

[unit: mm(inch)]

MODEL	GAS	LIQUID
ARNU073SE*2	Ø12.7(1/2)	Ø6.35(1/4)
ARNU093SE*2	Ø12.7(1/2)	Ø6.35(1/4)
ARNU123SE*2	Ø12.7(1/2)	Ø6.35(1/4)
ARNU153SE*2	Ø12.7(1/2)	Ø6.35(1/4)
ARNU183S3*2	Ø12.7(1/2)	Ø6.35(1/4)
ARNU243S3*2	Ø15.88(5/8)	Ø9.52(3/8)

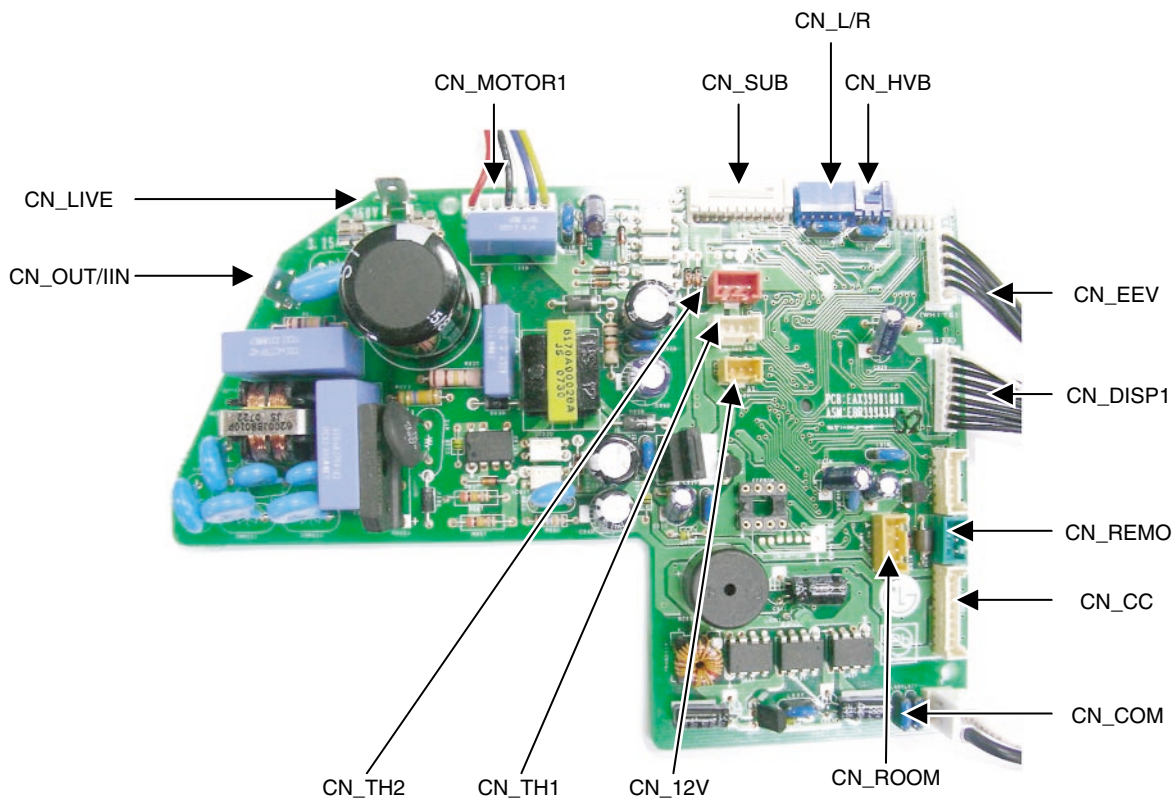
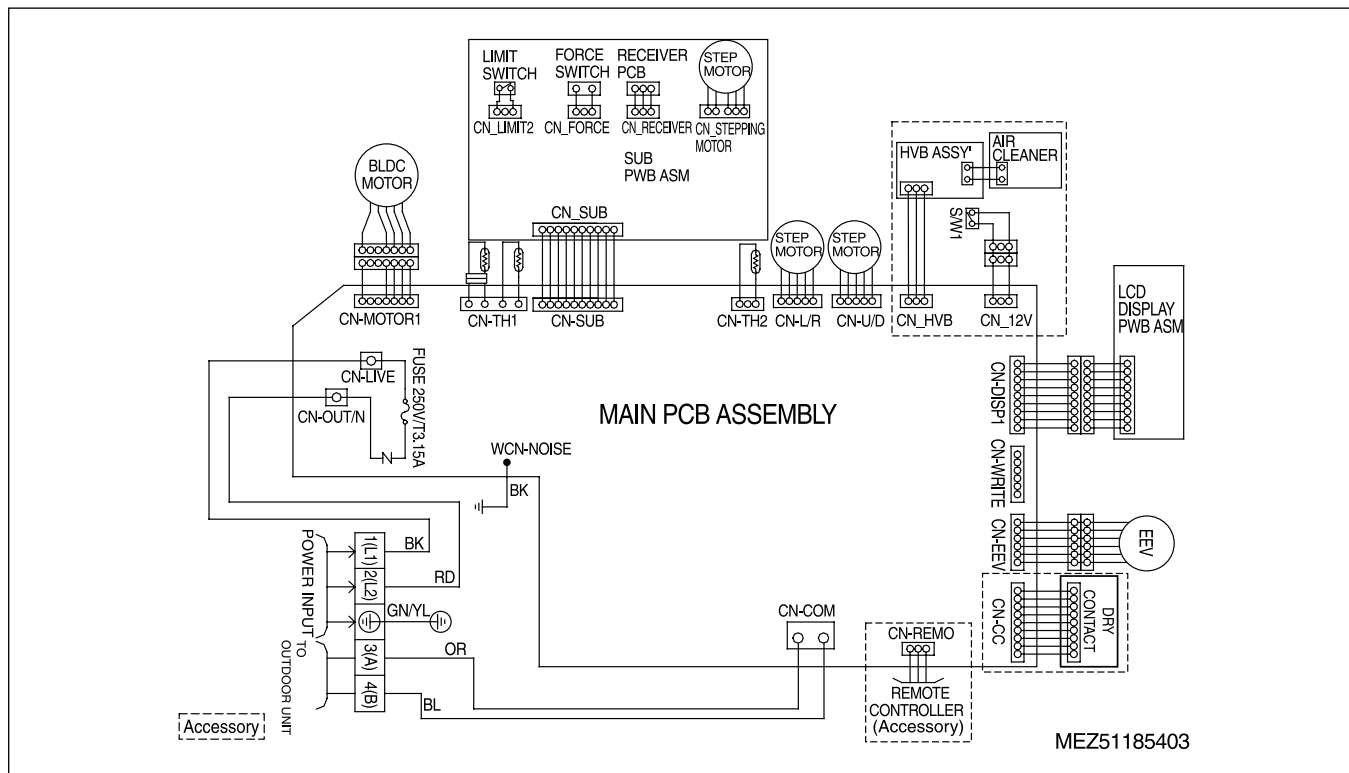
*SE-(Color) : R(Mirror), V(Silver), B(Blue)

S3 -(Color) : R(Mirror), M(Metal), B(Blue), D(Wood), W(White)

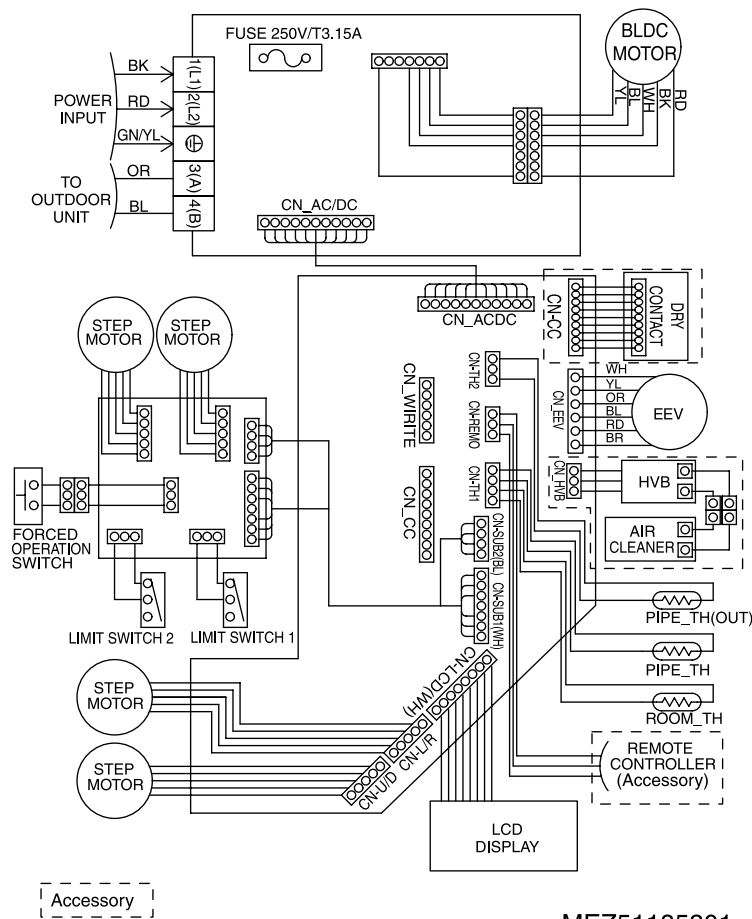
LOC.	Description
Th1	Room thermistor
Th2	Pipe in thermistor
Th3	Pipe out thermistor

4. Wiring Diagrams

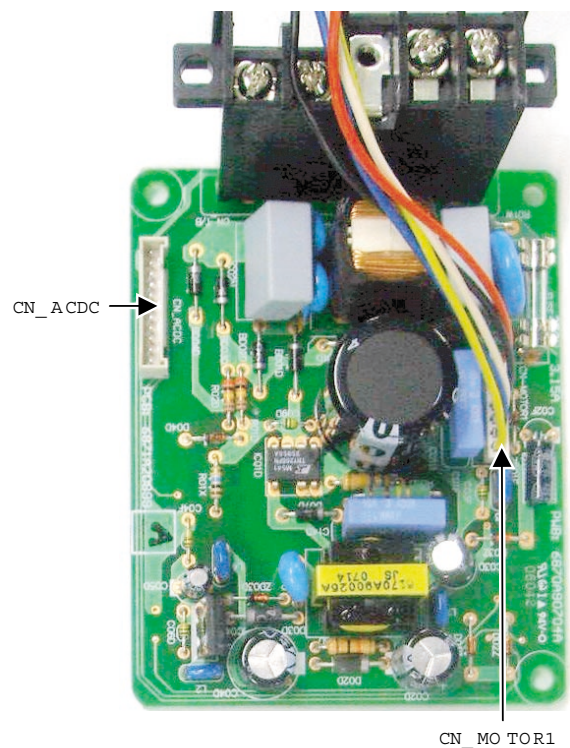
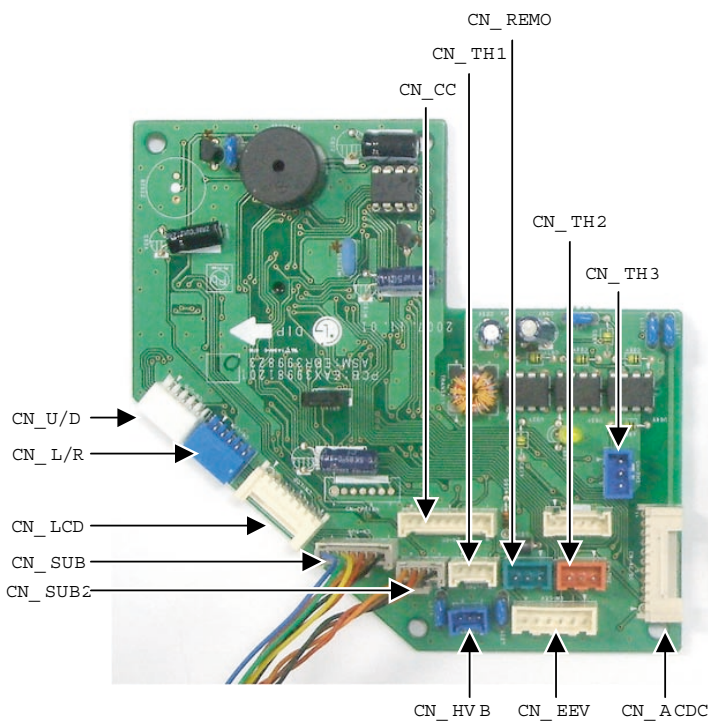
SE Chassis



S3 Chassis

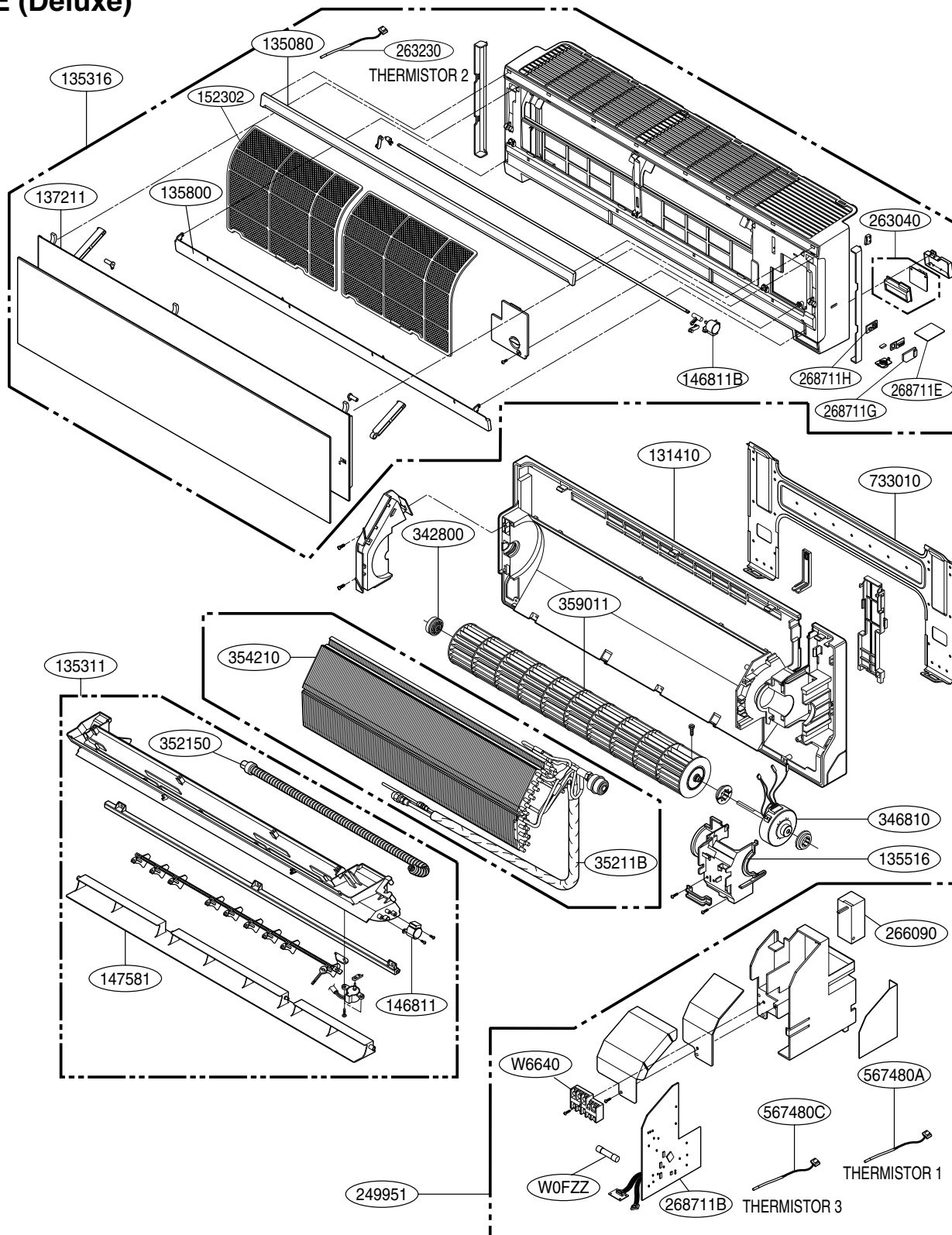


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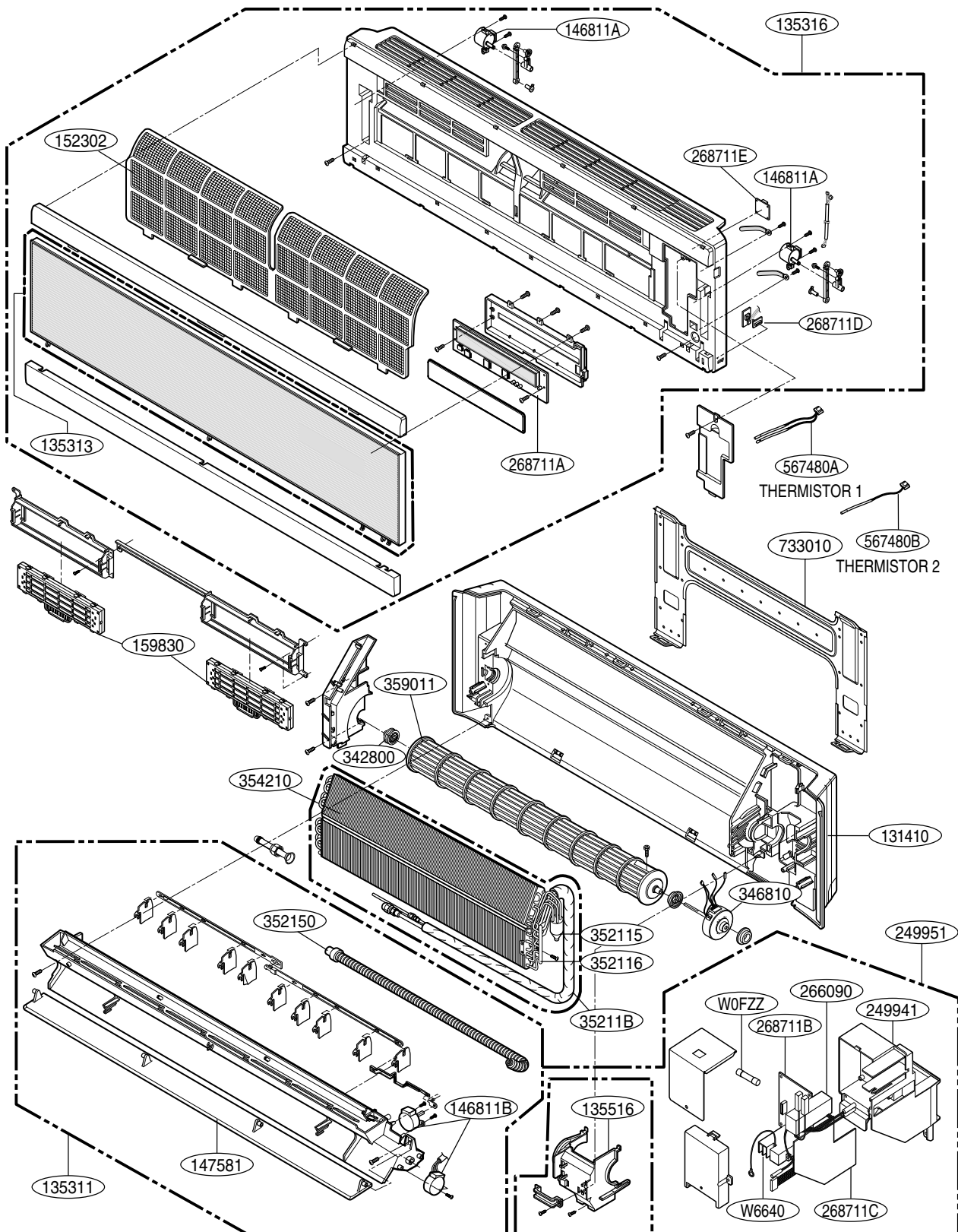


5. Exploded View

SE (Deluxe)



Thermistor 1	567480A	Air	Housing color : yellow
Thermistor 2	263230	Eva. in	Housing color : white
Thermistor 3	567480C	Eva. out	Housing color : red



Thermistor 1	567480A	Air + Eva. in	Housing color : white
Thermistor 2	567480B	Eva. out	Housing color : red



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