

Air Conditioner

SERVICE MANUAL

(Exploded View)

MODEL : ZTNWGQLA1 [CT**F NQ0]
ZTNW**GQLH1 [UT**FH NQ0]**

CAUTION

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

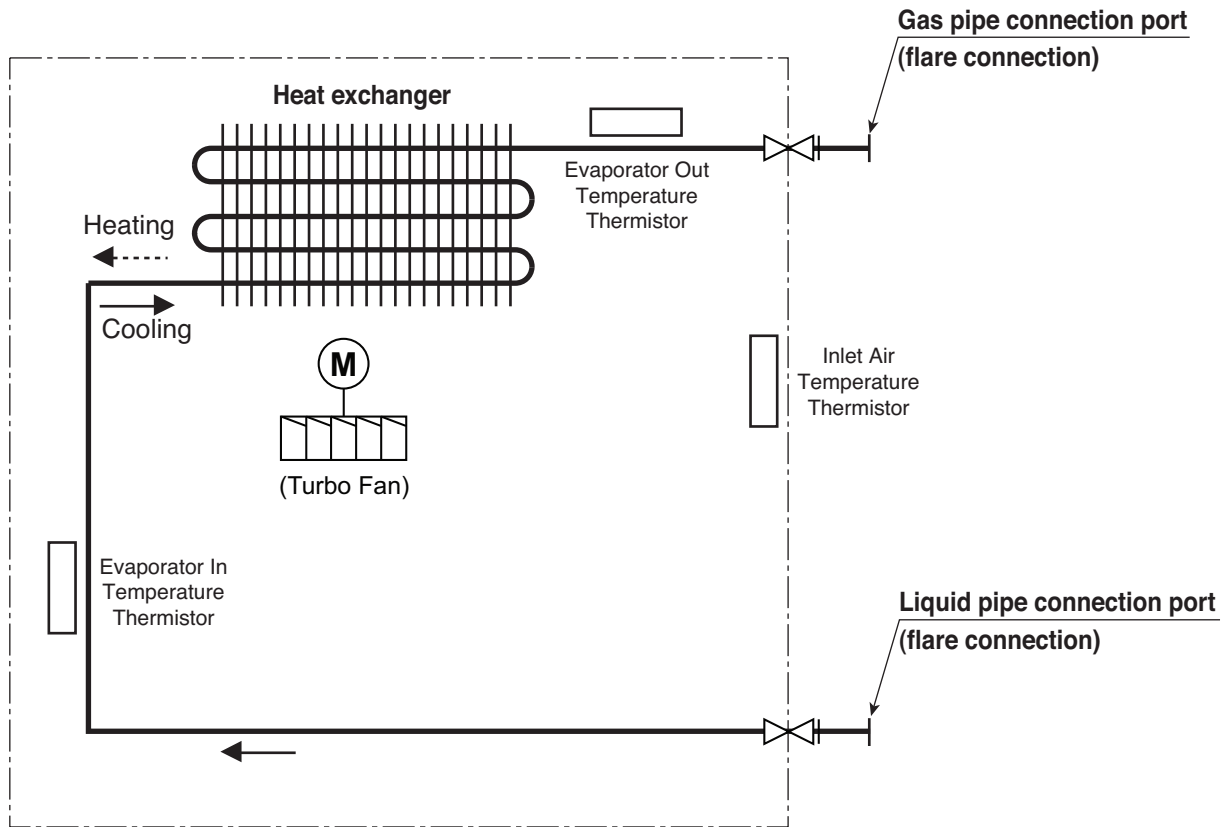
1. Specification

Model Name				ZTNW18GQLA1 CT18F NQ0	ZTNW09GQLH1 UT09FH NQ0	ZTNW12GQLH1 UT12FH NQ0
				TQ	TQ	TQ
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Power and Communication Cable (included Earth)	IDU ↔ ODU	VCTF-SB	mm ³ x Cores	0.75 x 4	0.75 x 4	0.75 x 4
Power Consumption		H / M / L	W	30 / 26 / 22	30 / 26 / 22	30 / 26 / 22
Running Current		H / M / L	A	0.33 / 0.31 / 0.29	0.33 / 0.31 / 0.29	0.33 / 0.31 / 0.29
		Max.	A	0.4	0.4	0.4
Air Flow Rate	Air Flow Rate	H / M / L	m ³ /min	13 / 12 / 11	11.0 / 10.0 / 9.3	11.0 / 10.0 / 9.3
	RPM	H / M / L	rev./m	670 / 620 / 580	640 / 590 / 550	640 / 590 / 550
Casing Color			-	Steel Gray	Steel Gray	Steel Gray
Dimensions	Body	W x H x D	mm	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
	Shipping	W x H x D	mm	667 x 327 x 646	667 x 327 x 646	667 x 327 x 646
Weight	Body		kg	13.9	13.9	13.9
	Shipping		kg	16.9	16.9	16.9
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 10 x 18) x 1	(2 x 10 x 18) x 1	(2 x 10 x 18) x 1
	Face Area		mm ²	0.28	0.28	0.28
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Drive		-	Internal	Internal	Internal
	Output		W x No.	43 x 1	43 x 1	43 x 1
Sound Pressure Level	Cooling	H / M / L	dB(A)	41 / 39 / 37	41 / 39 / 37	41 / 39 / 37
	Heating	H / M / L	dB(A)	41 / 39 / 37	41 / 39 / 37	41 / 39 / 37
Sound Power Level	Cooling	Max.	dB(A)	57	54	54
	Heating	Max.	dB(A)	-	-	-
Refrigerant			-	R410 or R32	R410A or R32	R410A or R32
Piping Connections	Liquid		mm	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm	Ø 12.7 (1/2)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Connections Method		-	Flared	Flared	Flared
Drain	O.D. / I.D. (Drain Pump only)		mm	Ø 32.0 / 25.0	Ø 32.0 / 25.0	Ø 32.0 / 25.0
max allowable pressure	High / Low Pressure Parts		Mpa	4.32 / 2.4	4.32 / 2.4	4.32 / 2.4
Safety Devices			-	Fuse	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
decoration Panel	Model Name		-	PT-QAGW0	PT-QAGW0	PT-QAGW0
	Color		-	White	White	White
	Dimensions	Body	mm	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620
		Shipping	mm	688 x 127 x 670	688 x 127 x 670	688 x 127 x 670
	Weight	Body	kg	3	3	3
		Shipping	kg	4.1	4.1	4.1
continuous operating temperature range	Cooling		°C(WB)	23 ~ 12	23 ~ 12	23 ~ 12
	Heating		°C(DB)	30 ~ 16	30 ~ 16	30 ~ 16
Available Warranty temperature Range	Cooling		°C(WB)	23 ~ 12	23 ~ 12	23 ~ 12
	Heating		°C(DB)	30 ~ 16	30 ~ 16	30 ~ 16

Note :

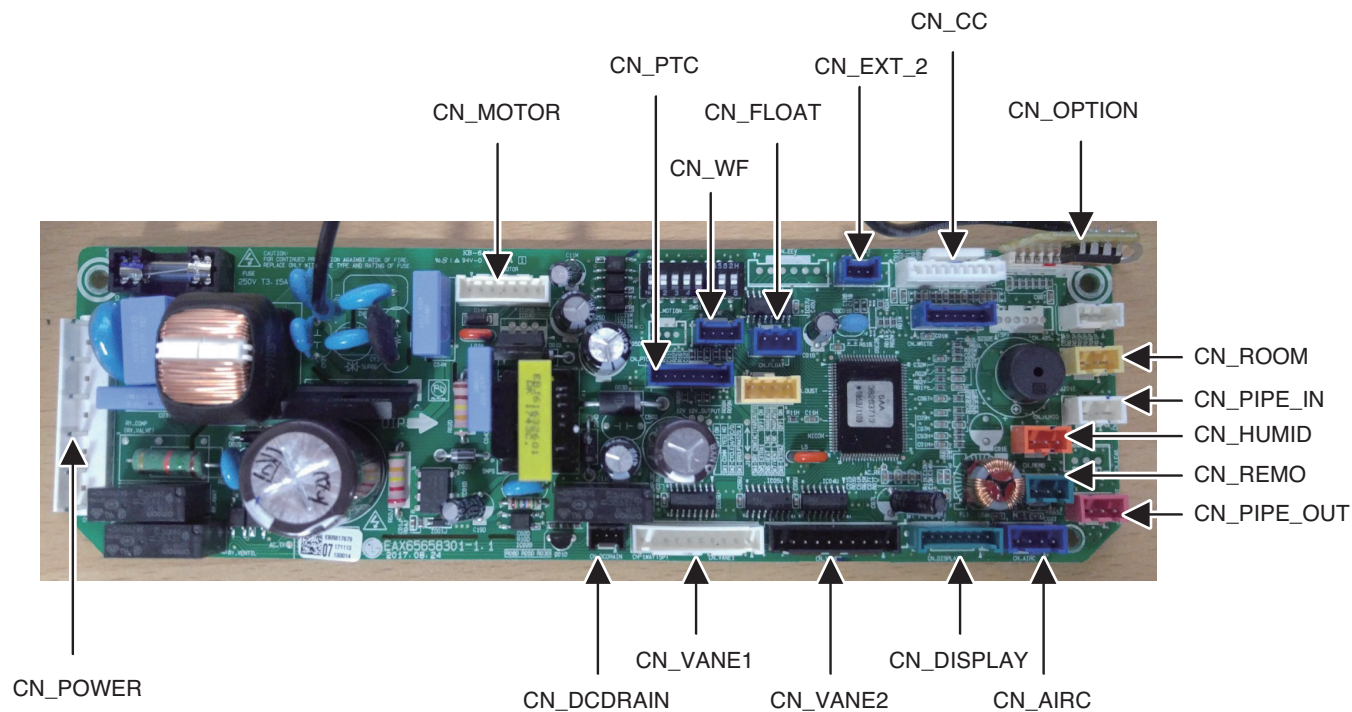
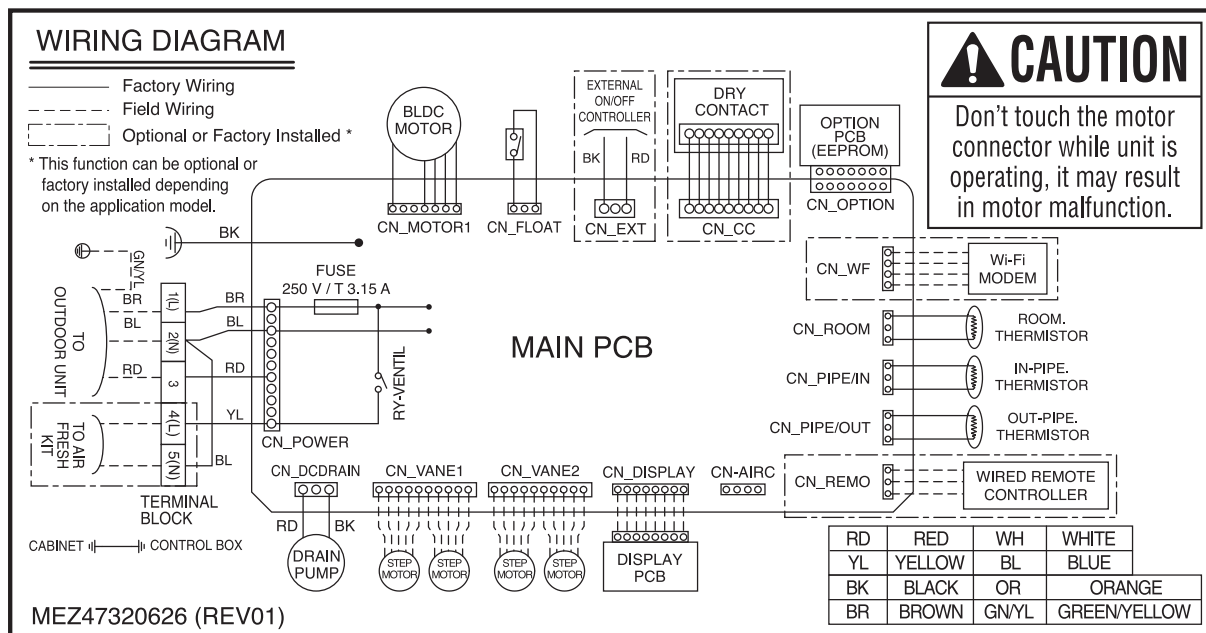
- All data are based on the following conditions:
 - Cooling Temperature : Indoor 27 °C(80.6 °F) DB / 19 °C(66.2 °F) WB
Outdoor 35 °C(95 °F) DB / 24 °C(75.2 °F) WB
 - Heating Temperature : Indoor 20 °C(68 °F) DB / 15 °C(59 °F) WB
Outdoor 7 °C(44.6 °F) DB / 6 °C(42.8 °F) WB
 - Piping Length : Interconnected Pipe Length = 7.5 m
 - Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without notification.
- Sound Level Values are measured at Anechoic chamber.
Therefore, these values can be increased (maximum 3 dB(A)) owing to ambient conditions during operation.

2. Piping Diagrams



Description	PCB Connector
Inlet Air Temperature Thermistor	CN_ROOM
Evaporator In Temperature Thermistor	CN_PIPE_IN
Evaporator Out Temperature Thermistor	CN_PIPE_OUT

3. Wiring Diagrams

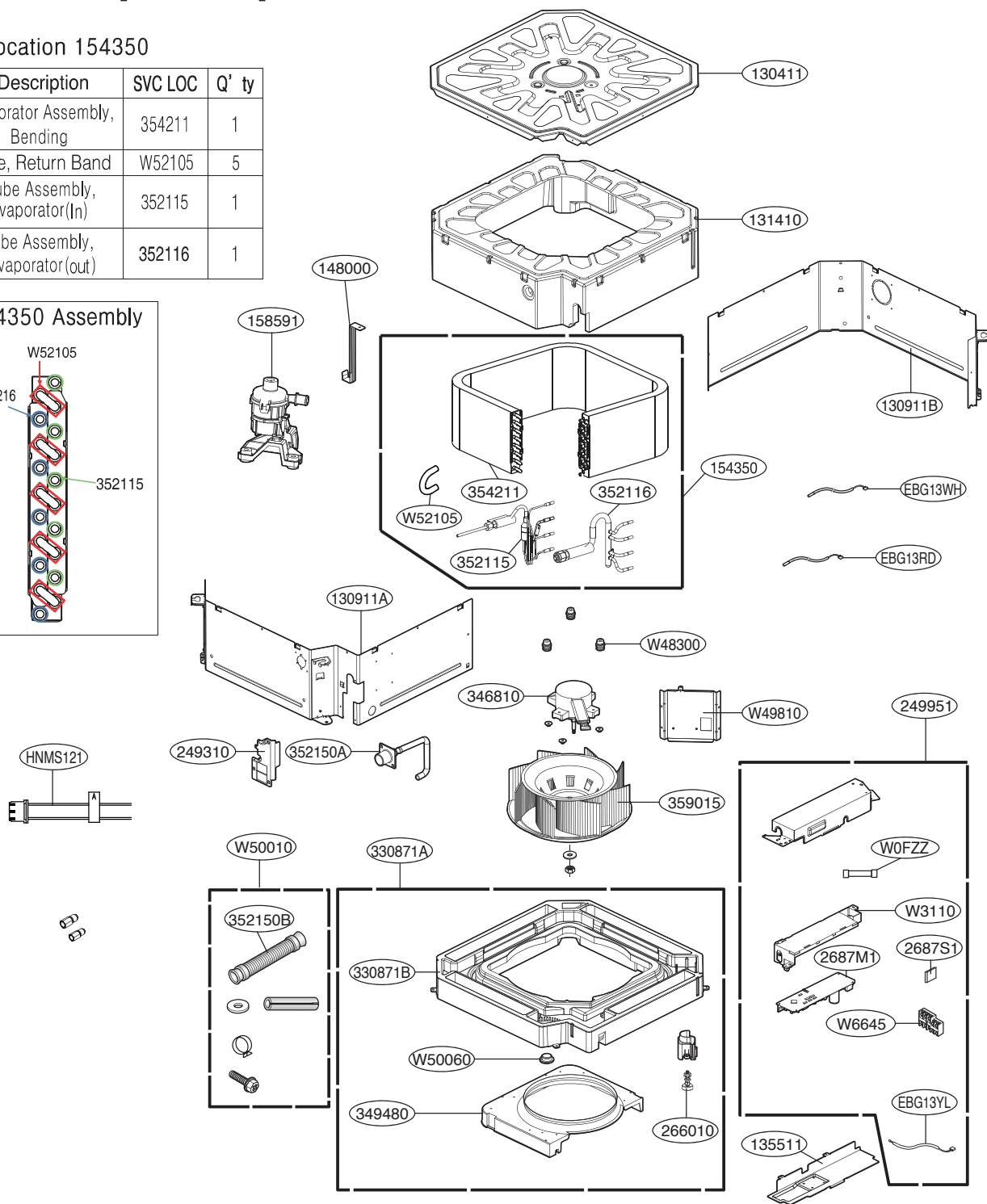
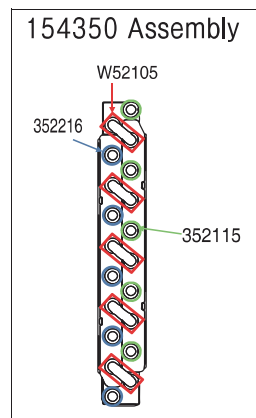


4. Exploded View

ZTNWGQLA1 [CT**F NQ0]**

● Location 154350

Description	SVC LOC	Q' ty
Evaporator Assembly, Bending	354211	1
Tube, Return Band	W52105	5
Tube Assembly, Evaporator(In)	352115	1
Tube Assembly, Evaporator(out)	352116	1

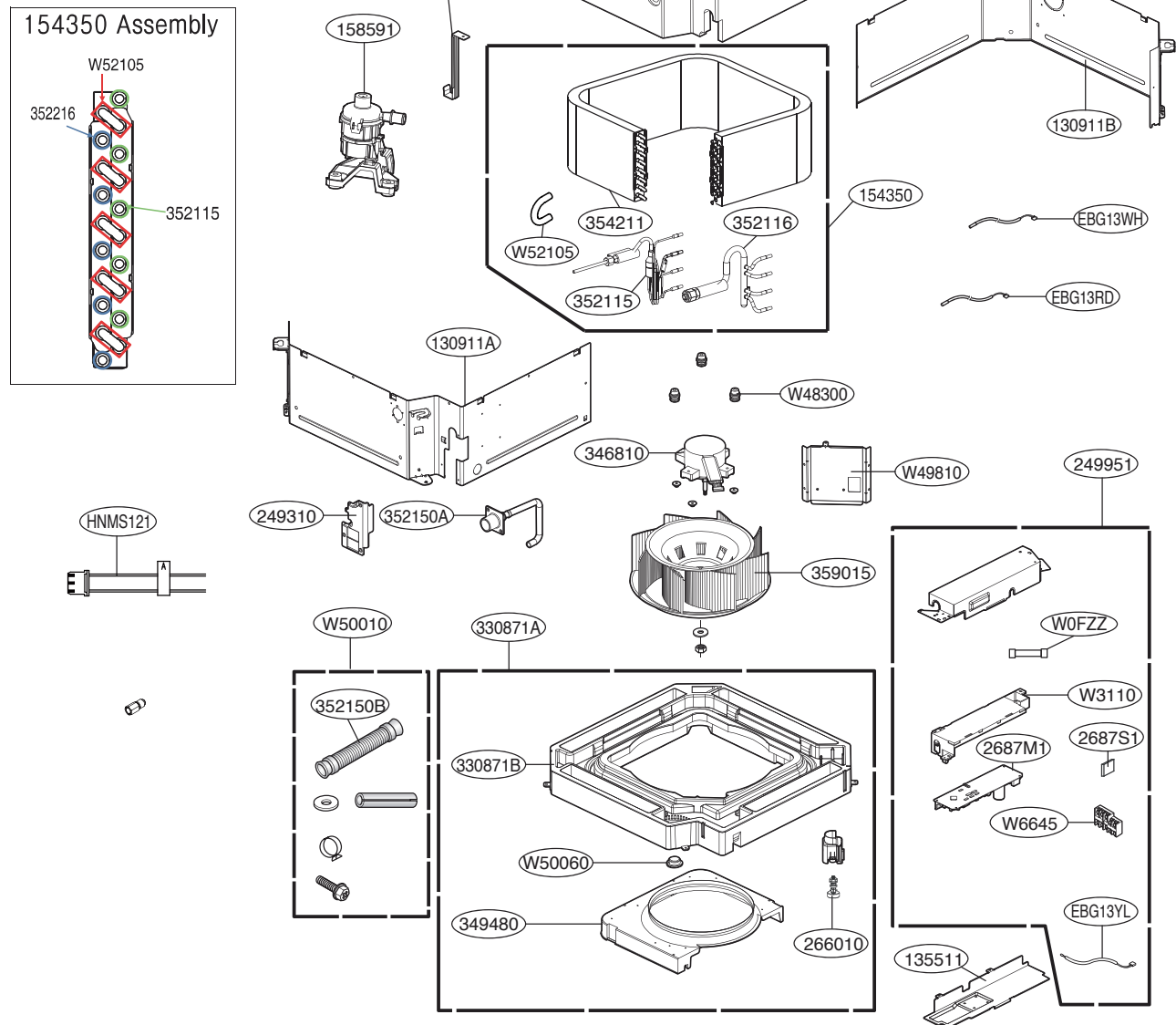


Location No.	Description	Sensor Information	Housing Color
EBG13YL	Thermistor1(CN_ROOM)	Air-Inlet	Yellow
EBG13WH	Thermistor2(CN_PIPE/IN)	Eva-in	White
EBG13RD	Thermistor3(CN_PIPE/OUT)	Eva-out	Red

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P/NO : MFL71683704