



CONFIDENTIAL

LG Air Conditioner

SERVICE MANUAL

(Exploded View)

MODEL : ZU UW24GA1 [UUB1 U20]

CAUTION

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

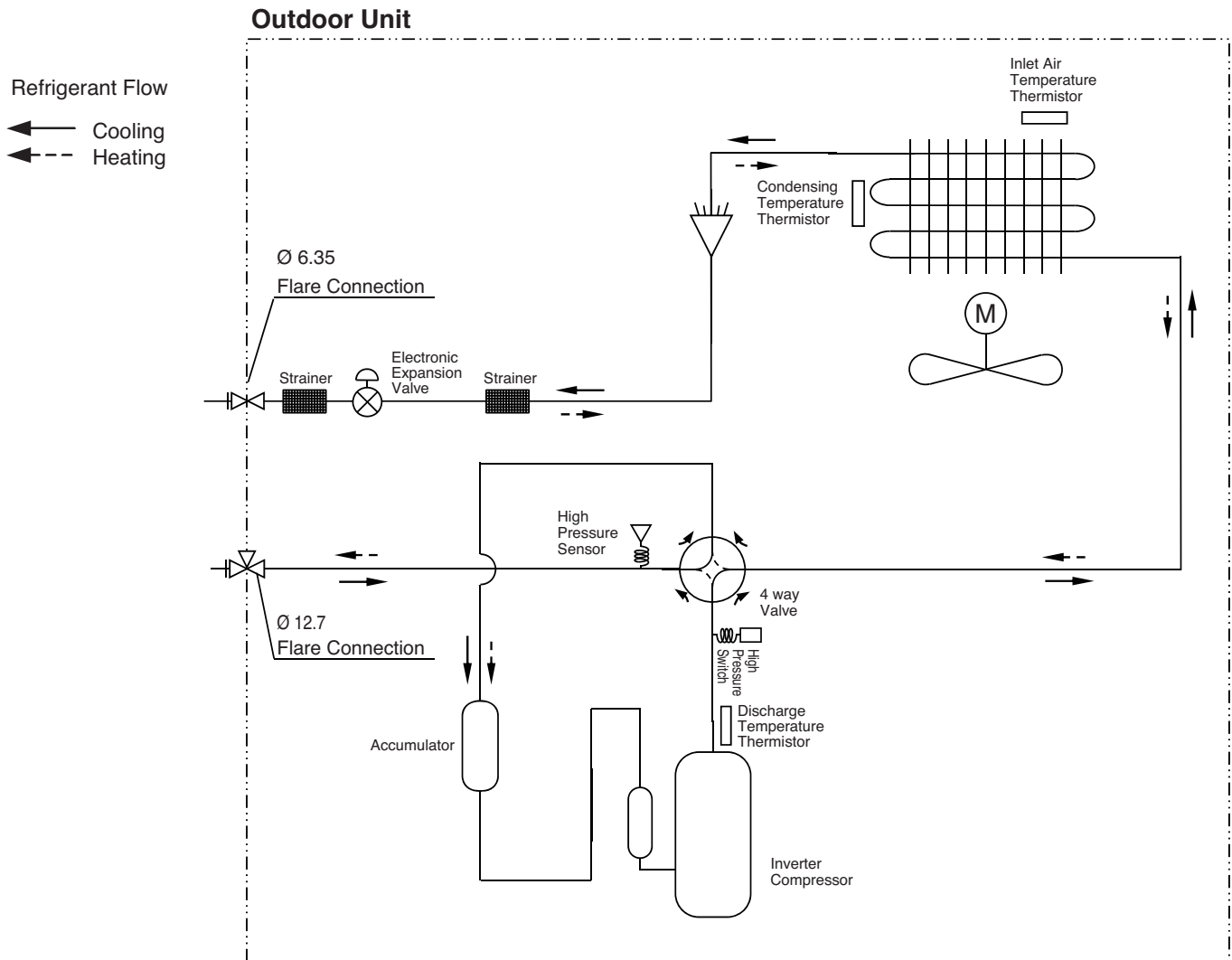
1. Specification

Model				ZUUW24GA1.EWGBEEU UUB1.U20
				U24A
Power Supply		V, Ø, Hz		220-240, 1, 50
		V, Ø, Hz		220, 1, 60
Power Factor	Rated	-		0.98
Running Current	Max.	A		16.0
ELCB Capacity		A (↑)		20
Power Supply Cable (included Earth)	ODU	CV(H07RN-F)	mm ³ x Cores	2.5 x 3 (4.0 x 3)
Power and Communication Cable (included Earth)	IDU ODU	VCTF-SB	mm ³ x Cores	0.75 x 4
Casing Color		-		Warm Gray
Dimensions	Net	W x H x D	mm	870 x 650 x 330
	Shipping	W x H x D	mm	1,046 x 713 x 461
Weight	Net	kg		44.5
	Shipping	kg		49.5
Compressor	Type		-	Twin Rotary
	Model		Model x No.	DKT208MAB x 1
	Motor type		-	BLDC
	Motor Output		W x No.	1500 x 1
Refrigerant	Type		-	R32
	GWP (Global Warming Potential)		-	675
	Precharged Amount		kg	1.2
	t-CO ₂ eq.		-	0.81
	Control		-	EEV
	Chargeless-Pipe Length		m	7.5
Refrigerant Oil	Additional Charging Volume		g/m	20
	Type		-	FW68D
Heat Exchanger	Charged volume		cc x No.	670 x 1
	(Row x Column x FPI) x No.		-	(2 x 28 x 14) x 1
Fan	Type		-	Propeller
	Air Flow Rate	Rated	m ³ /min x No.	50 x 1
	RPM	Max.	Rev./Min	840
Fan Motor	Type		-	BLDC
	Drive		-	External
	Output		W x No.	85.4 x 1
Piping Connections	Liquid	Outer Dia.	mm	Ø 6.35 (1/4)
	Gas	Outer Dia.	mm	Ø 12.7 (1/2)
	Connections Method		-	Flared
Maximum Height Difference (ODU ~ IDU)		Max.	m	30
max allowable pressure	High / Low Pressue Parts		Mpa	4.32 / 2.4

Note:

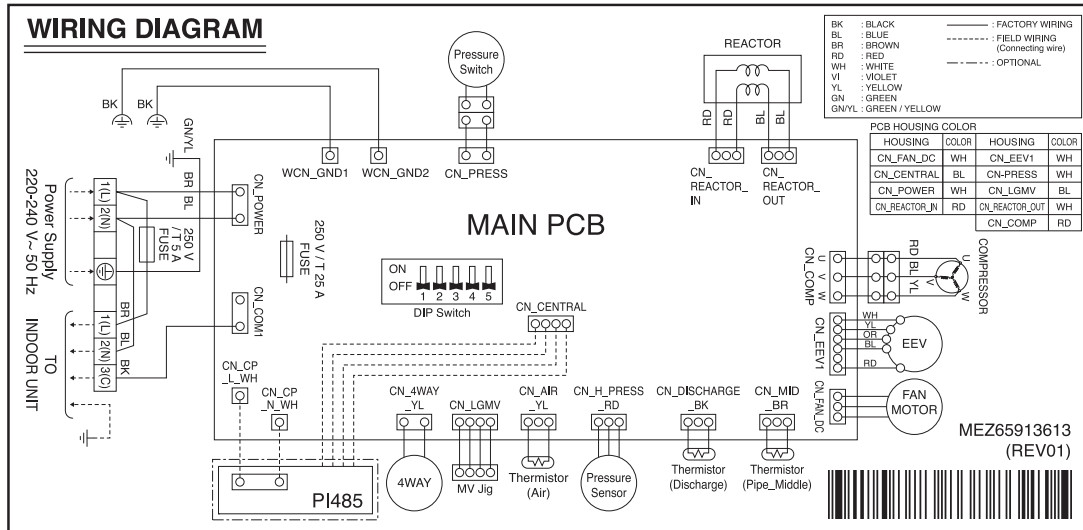
- All data are based on the following conditions:
 - Cooling Temperature : Indoor 27 °C(80.6 °F) DB / 19 °C(66.2 °F) WB
Outdoor 35 °C(95 °F) DB / 24 °C(75.2 °F) WB
 - Heating Temperature : Indoor 20 °C(68 °F) DB / 15 °C(59 °F) WB
Outdoor 7 °C(44.6 °F) DB / 6 °C(42.8 °F) WB
 - Piping Length : Interconnected Pipe Length = 7.5m
 - 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 3dB(A)) owing to ambient conditions during operation.

2. Piping Diagrams

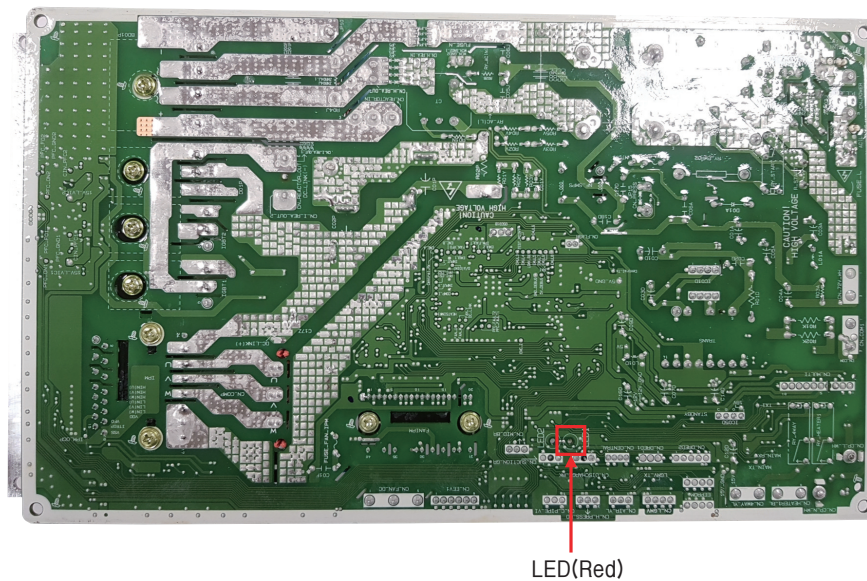
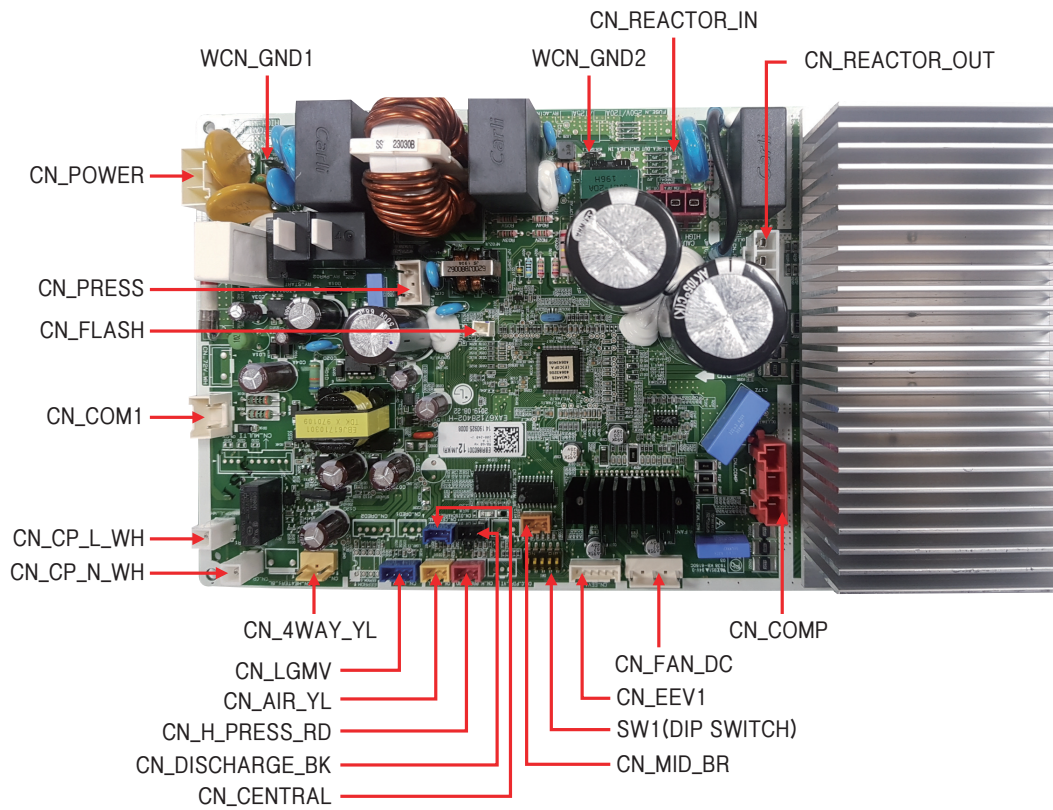


Description	PCB Connector
Inlet Air Temperature Thermistor	CN_AIR(Yellow)
Discharge Temperature Thermistor	CN_DISCHARGE(Black)
Condensing Temperature Thermistor	CN_MID(Brown)
High Pressure Sensor	CN_H_PRESS(Red)
Electronic Expansion Valve	CN_EEV1(White)
Pressure switch	CN_PRESS(White)

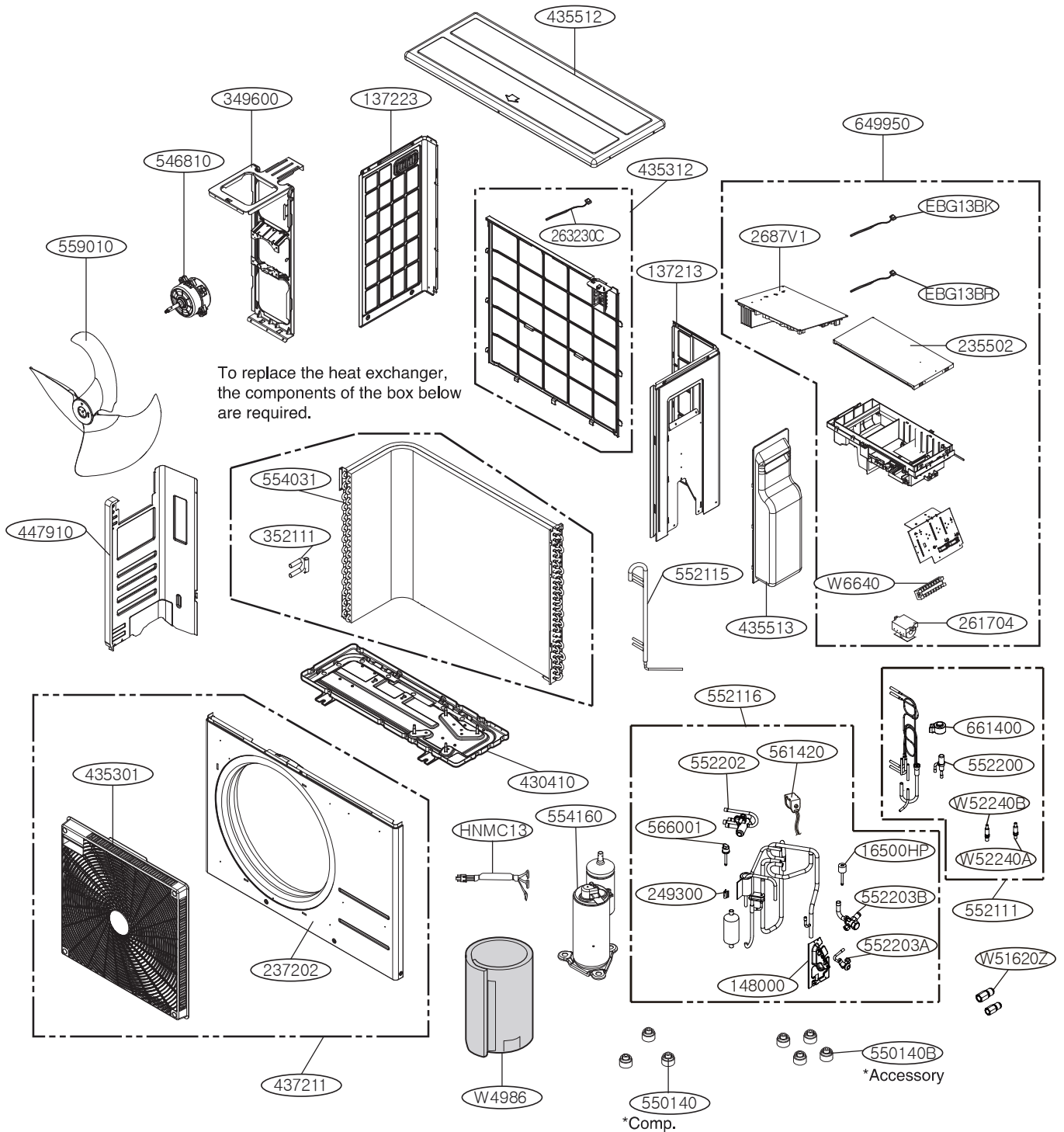
3. Wiring Diagrams



4. PCB



5. Exploded View



Location No.	Description	Sensor Information	Housing Color
EBG13BK	Thermistor (CN-DISCHARGE)	Discharge pipe thermistor	Black
EBG13BR	Thermistor (CN-MID)	Middle thermistor	Brown
263230C	Thermistor (CN-AIR)	Air thermistor	Yellow
165000	Pressure Sensor (CN-H_PRESS)	High Pressure Sensor	Red



P/NO : MFL71683702