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# LG LMU185HV Owner's Manual

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<http://biz.lgservice.com>

# Multi Air Conditioner

## SVC MANUAL(Exploded View)

**MODEL : A2UW183FA0(LMU185HV)**

### **CAUTION**

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

# 1. Specification

| Outdoor Unit                                |                                     |             | A2UW183FA0(LMU185HV)                  |
|---|-------------------------------------|-------------|---------------------------------------|
| Capacity(*)                                 |                                     | Btu/h Class | 18,000                                |
| Power Input<br>(Min. Rated~ Max.)           | Cooling                             | kW          | 0.52~1.26~2.05                        |
|   | Heating                             | kW          | 0.77~1.63~2.18                        |
| Running Current (Rated)                     | Cooling                             | A           | 2.3~5.7~9.5                           |
|   | Heating                             | A           | 3.4~7.2~9.6                           |
| Starting Current                            | Cooling/Heating                     | A           | -                                     |
| Power Supply                                |                                     | Ø / V / Hz  | 1/208~230/60                          |
| Power Supply Cable (Outdoor)                |                                     | No.x AWG    | 3 x 14                                |
| Transmission Cable (Outdoor to Indoor unit) |                                     | No.x AWG    | 4 x 18 (Including Earth)              |
| Dimensions                                  | W x H x D                           | mm(inch)    | 870x655x320 (34 1/4x25 25/32x12 9/16) |
| Net Weight                                  |                                     | kg(lbs)     | 52(115)                               |
| Max. Number of Connectable Indoor Units     |                                     |             | 2                                     |
| Compressor                                  | Type                                |             | e-Scroll                              |
|   | Qty x Model                         |             | 1 x 5CS130XCC03                       |
|   | Motor type                          |             | BLDC                                  |
|   | Oil charge volume                   | cc          | 480                                   |
|   | Oil Type                            |             | RB68A                                 |
| Refrigerant                                 | Cycle A Charge (at 7.5m)            | g(oz)       | 1,650(59.97)                          |
|   | Cycle B Charge (at 7.5m)            | g(oz)       | -                                     |
|   | Type                                |             | R410A                                 |
| Heat Exchanger                              | Control                             |             | EEV                                   |
|   | (Rows x Column x FPI) x No.         |             | (2R x 28C x 18) x1                    |
|   | Coil tube dia.                      | mm(inch)    | 7(0.276)                              |
|   | Defrosting Method                   |             | Reversing cycle                       |
| Fan motor                                   | Capacitor                           | µ/Vac       | 6/370                                 |
|   | Drive                               |             | Direct (AC)                           |
|   | Discharge Direction(Side/Top)       |             | Side                                  |
|   | Air Flow RateA~No. of Fan           | CMM(CFM)    | 53(1,871)                             |
| Sound Level(H/L)                            | Sound Pressure                      | dB(A)+3     | 51/45                                 |
|   | Liquid(Cycle A)                     | mm(inch)    | 6.35(1/4) x 2EA                       |
| Piping Connections                          | Gas(Cycle A)                        | mm(inch)    | 9.52(3/8) x 2EA                       |
|   | Liquid(Cycle B)                     | mm(inch)    | -                                     |
|   | Gas(Cycle B)                        | mm(inch)    | -                                     |
|   | Max. total piping                   | m(ft.)      | 50(164.0)                             |
| Piping length spec.                         | Max. OD-ID piping                   | m(ft.)      | 25(82.0)                              |
|   | Piping Length(no add'l refrigerant) | m(ft.)      | 22.5(73.8)                            |
|   | Max. Elevation Difference           | m(ft.)      | 15(49.2)                              |
| Operation Range (Outdoor)                   | Outdoor Unit~Indoor Unit            | m(ft.)      | 7.5(24.6)                             |
|   | Cooling                             | °C(°F)      | -10~46 (14 ~114.8)                    |
|   | Heating                             | °C(°F)      | -15 ~ 24 (5~ 75.2)                    |

## Note :

- Capacities are based on the following conditions:  
 Cooling: - Indoor Temperature 26.7°C(80°F) DB/19.4°C(67°F) WB  
 - Outdoor Temperature 35°C(95°F) DB/23.9°C(75°F) WB  
 Heating: - Indoor Temperature 21.1°C(70°F) DB/15.6°C(60°F) WB  
 - Outdoor Temperature 8.3°C(47°F) DB/6.1°C(43°F) WB  
 Piping Length - Interconnecting Piping Length 7.5m(24.6 ft.)  
 - 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.
- At least two indoor units should be connected.
- For more Capacity(\*), refer to the combination table

## Conversion Formula

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

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

## 2. List of Functions

| Category             | Function                                | A2UW183FA0[LMU185HV] |
|----------------------|---|----------------------|
| Reliability          | Defrost / Deicing                       | O                    |
|                      | High pressure switch                    | X                    |
|                      | Low pressure switch                     | X                    |
|                      | Phase protection                        | X                    |
|                      | Restart delay (3-minutes)               | O                    |
|                      | Self diagnosis                          | O                    |
|                      | Soft start                              | O                    |
|                      | Test function                           | X                    |
| Convenience          | Auto operation(Artificial intelligence) | O                    |
|                      | Auto restart operation                  | O                    |
| CAC Network Function | Central control(LGAP)                   | X                    |
|                      | PDI(Power Distribution Indicator)       | X                    |
|                      | PI485                                   | X                    |
| Special Function Kit | Low ambient operation                   | O                    |
| Others               | Thermistor                              | -                    |

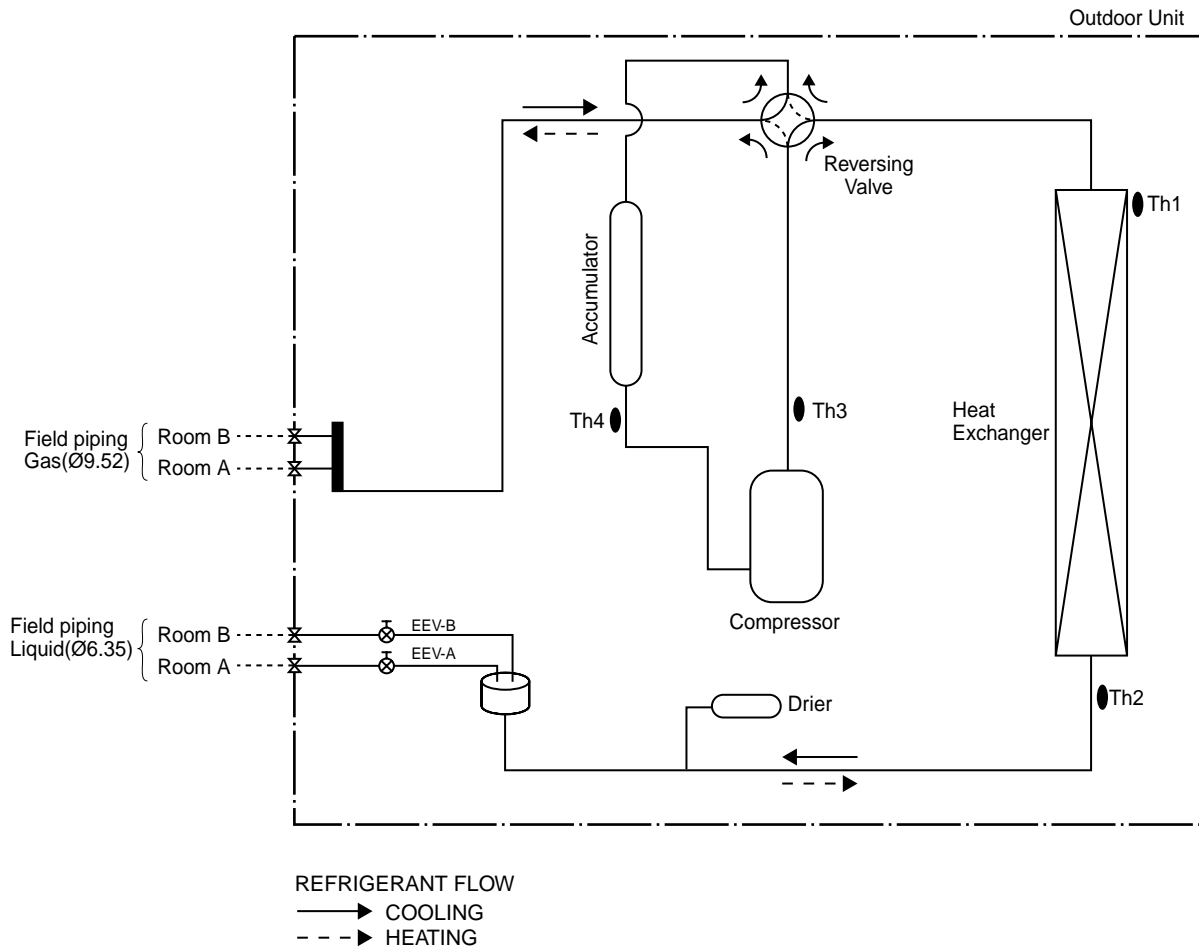
O : Applied    X : Not applied    - : No relation

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

★ : These safety switcher are standard or optional features depending on region & country.

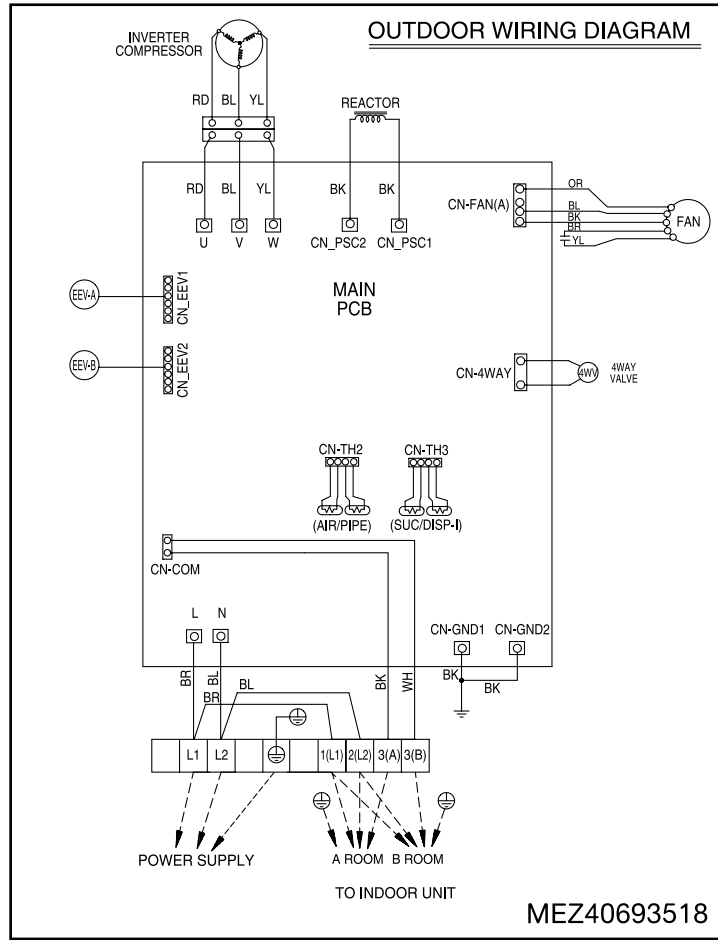
### 3. Piping Diagrams



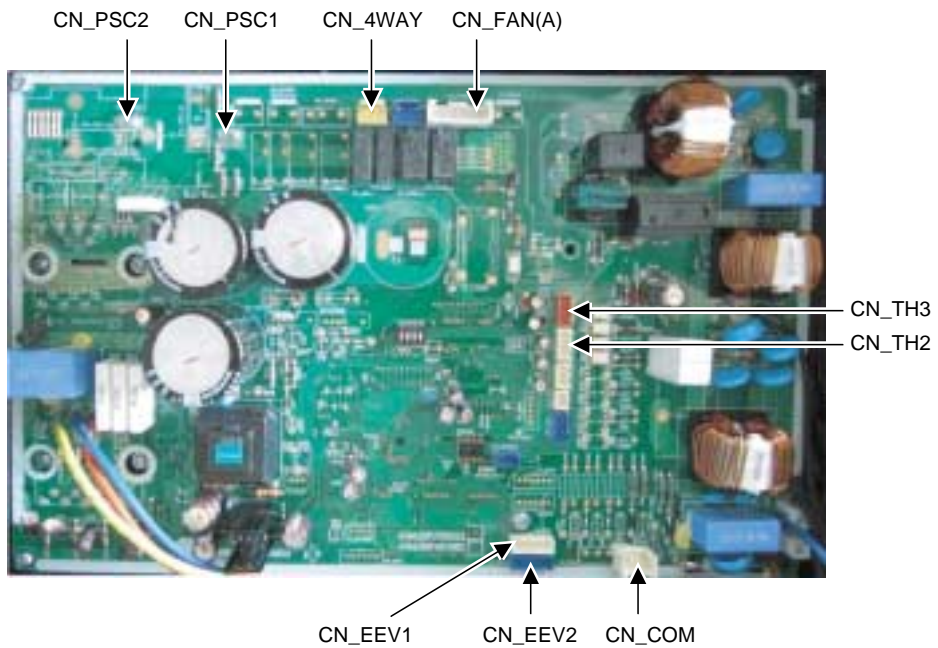
| LOC. | Description                               | PCB Connector |
|------|---|---------------|
| TH1  | Thermistor for outdoor air temperature    | CN_TH2        |
| TH2  | Thermistor for condensing temperature     | CN_TH2        |
| TH3  | Thermistor for discharge pipe temperature | CN_TH3        |
| TH4  | Thermistor for suction pipe temperature   | CN_TH3        |

# 4. Wiring Diagrams

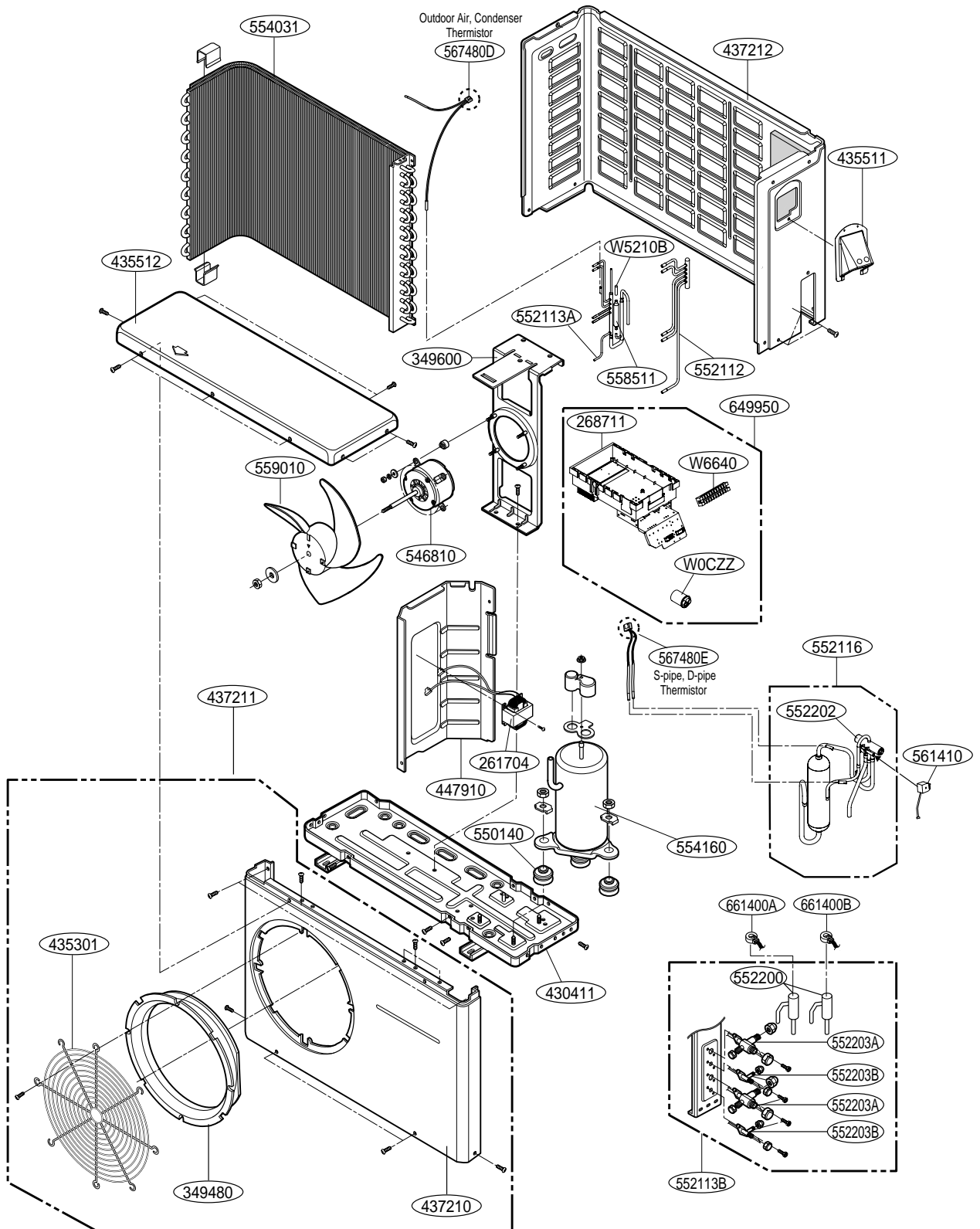
## 1. Wiring Diagram



## 2. PCB



## 5. Exploded View



Note) \* Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request.  
Please check the correct parts in View RPL(Replacement Part List) on GCSC.  
(GCSC Website <http://biz.Lgservice.com>,)



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