## SUMMARY OF TROUBLESHOOTING METHOD FOR INDOOR UNIT





CN15 (WHT

CN17

(WHT)

CN18 (WHT)

CN20 (WHT)

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°1

CN30 (WHT) 2 B-12V +2 B-0V

CN27 10-(WHT) 20-

CN2 (RED)

CN10 (RED

CN9 (BLK/

BLU)

CN8 (WHT)

GRN1 GRN2 GRN3

(GRN

Г

& YEL)

RED

CONNECTION

TO INDOOR UNIT

EEPROM

TEST

MICON

•1 DRM1 • DRM2 • DRM3 •4 PSC CN25 (WHT)

Ν CN24 (WHT)

A FUSE

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-11-

SWITCHING

POWER

MAIN P.W.B

3.15A FUSE

BLK WHT POWER CIRCUIT

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SELF-CHECK

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REVERSING

DEFROST THERMISTOR

THERMISTOR

VALVE

OH

FAN MOTOR

EXPANSION

VALVE

value between WHT, YEL, RED wire of compressor wire. It shall be same on all terminals between  $1\Omega$  to  $3\Omega$ .

Checking the reactor winding.

- 1) Power off the unit.
- 2) Disconnect YEL and BRN wire at TAB3 and TAB4 from MAIN P.W.B.
- 3) Check the resistance value between YEL & BRN wire of reactor. It shall be around  $0.01\Omega$  to  $0.1\Omega$ .
- \*\* During normal running, DC voltage between TAB 3 and TAB4 shall be 17V to 20V.

Checking all the fuse continuity. There are 5 fuses inside the MAIN P.W.B.

- 1) Power off the unit.
- 2) Check the continuity of below fuse: a) F1 (25A) b) F5 (3.15A) c) F6 (3.15A) d) F3 (3A) e) F4 (2A)

## Checking the power source.

- 1) Power ON the unit.
- 2) Check the AC voltage from power source between terminal L and N. It shall be around 240 ±10 V

Checking the connection of 1, 2, 3 terminal to the indoor. 1) Power ON the unit.

2) After around 1 minute, check the AC voltage between terminal as below table.

BRN I TAB4

YEL

REACTOR

TAB3

¢ ¢

3A FUSE

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25A FUSE

BRN

3.15A FUSE

Ω.

BLU

POWER SOURCE

δN

(GRN

& YEL)

Voltage value between terminal			Outdoor LD301
1 to 2	2 to 3	1 to 3	indication
240V	around 0.3V	240V	Off or 1 time blink
240V	0.1-0.4V	240V	9 times blink
240V	100 - 120V	120-140V	9 times blink
240V	0.1-0.4V	240V	9 times blink
	Voltage 1 to 2 240V 240V 240V 240V 240V	Voltage value betwee   1 to 2 2 to 3   240V around 0.3V   240V 0.1-0.4V   240V 100 - 120V   240V 0.1-0.4V	Voltage value between terminal   1 to 2 2 to 3 1 to 3   240V around 0.3V 240V   240V 0.1-0.4V 240V   240V 100 - 120V 120-140V   240V 0.1-0.4V 240V

valve winding. 1) Power off the unit. 2) Disconnect the reversing valve wire from CN2 of MAIN P.W.B. 3) Check the resistance value between the wire of reversing valve. It shall be around

1.9kΩ. Checking the outdoor temperature thermistor. 1) Power off the unit. 2) Disconnect the thermistor wire from CN10 of MAIN P.W.B. 3) Check the resistance value between the wire of thermistor. It shall be around OUTDOOR TEMPERATURE THERMISTOR  $1.7k\Omega \pm 0.3k\Omega$ .

> Checking the defrost thermistor.

- 1) Power off the unit. 2) Disconnect the thermistor wire from CN9 of MAIN P.W.B.
- 3) Check the resistance value between the wire of thermistor. It shall be around  $1.7k\Omega \pm 0.3k\Omega$ .

Checking the OH thermistor.

- 1) Power off the unit.
- 2) Disconnect the thermistor wire from CN8 of MAIN P.W.B.
- 3) Check the resistance value between the wire of thermistor. It shall be around  $25k\Omega \pm 5k\Omega$ .