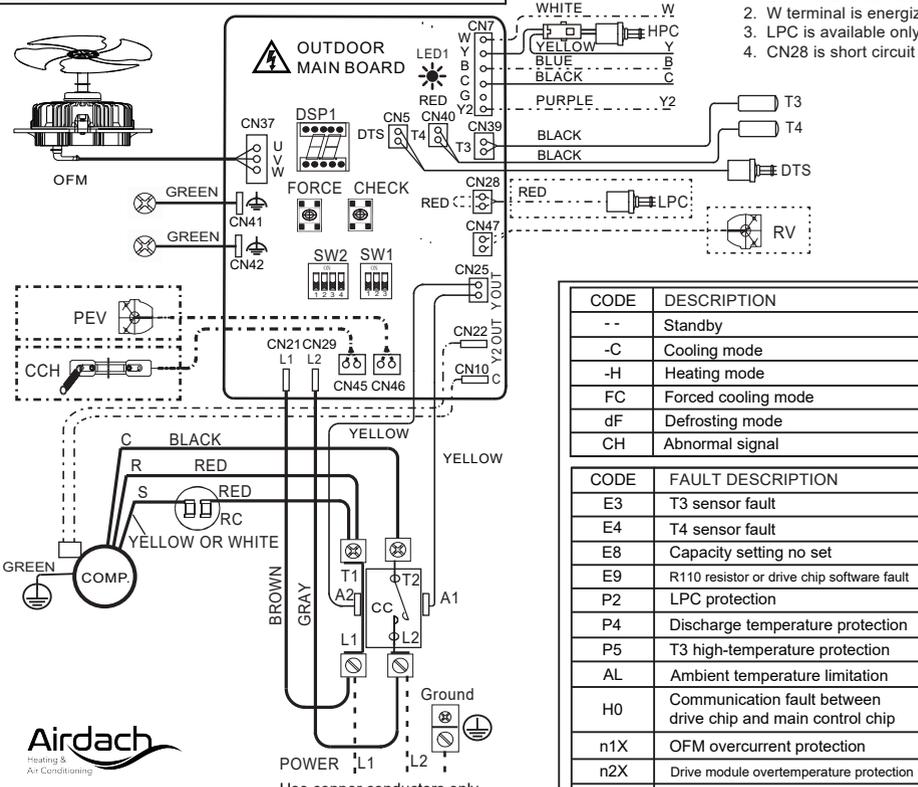**WARNING: ELECTRIFICATION ON THE OUTDOOR MAIN BOARD, DO NOT TOUCH WHEN POWER IS ON.**

To indoor unit

Note:
1. B terminal is connected and energized for heating operation.
2. W terminal is energized in defrosting operation.
3. LPC is available only for heat pump model.
4. CN28 is short circuit for cooling only model.

OUTDOOR MAIN BOARD

OFM

CN37
DSP1
FORCE CHECK
CN41
CN42
SW2 SW1
PEV
CCH
CN21 CN29
CN45 CN46

WHITE — W
YELLOW — Y
BLUE — B
BLACK — C
PURPLE — Y2
BLACK
BLACK

HPC
T3
T4
DTS
LPC
RV

C BLACK
R RED
S RED
RC
YELLOW OR WHITE
GREEN
COMP.

Airdach
Heating & Air Conditioning

POWER L1 L2
Use copper conductors only

CODE	DESCRIPTION
CC	Compressor Contactor
COMP.	Compressor
CCH	Crankcase Heater
PEV	Pressure Equalizer Valve
T4	Ambient Temperature Sensor
T3	Pipe Temperature Sensor
HPC	High Pressure Cut-out Control
LPC	Low Pressure Cut-out Control
DTS	Discharge Temperature Switch
OFM	Outdoor Fan Motor
RC	Run Capacitor
RV	Reversing Valve

CODE	DESCRIPTION
- -	Standby
-C	Cooling mode
-H	Heating mode
FC	Forced cooling mode
dF	Defrosting mode
CH	Abnormal signal

CODE	FAULT DESCRIPTION
E3	T3 sensor fault
E4	T4 sensor fault
E8	Capacity setting no set
E9	R110 resistor or drive chip software fault
P2	LPC protection
P4	Discharge temperature protection
P5	T3 high-temperature protection
AL	Ambient temperature limitation
H0	Communication fault between drive chip and main control chip
n1X	OFM overcurrent protection
n2X	Drive module overtemperature protection
n3X	DC bus voltage fault
n4X	IPM Fault
n5X	OFM startup fault
n6X	Phase loss protection
n serial faults, alternately display n and xx	

NUMBER	POINT CHECK CONTENT
1	Unit capacity
2	Operation mode
3	Current fan speed(Actual speed divided by 10, for example, 560R is represented by '56.', 1050R is represented by 'A5.', hexadecimal number A represents 10.)
4	Target fan speed(Actual speed divided by 10, for example, 560R is represented by '56.', 1050R is represented by 'A5.', hexadecimal number A represents 10.)
5	T3 temperature(°F)(if the value is less than 100, the actual value is displayed. if over 100, divided by 10, 135 is represented by '13.', if it is negative, '1.0' means -10, '.5' means -5)
6	T4 temperature(°F)(if the value is less than 100, the actual value is displayed. if over 100, divided by 10, 135 is represented by '13.', if it is negative, '1.0' means -10, '.5' means -5)
7	Compressor running time(day)(if the value is less than 100, the actual number of days is displayed. if over 100 and less than 1000, 360 days are represented by '36.', if over 1000, 3600 days are represented by '3.6.')
8	Main control chip software version
9	Drive chip software version
10	Y1 signal state(1=ON, 0=OFF)
11	B signal state(1=ON, 0=OFF)
12	W signal state(1=ON, 0=OFF)
13	Y2 signal state(1=ON, 0=OFF)
14	RV condition (1=ON, 0=OFF)
15	High wind pattern (1=ON, 0=OFF)
16	Last fault code
17	Last second fault code
18	Last third fault code
19	--

CAPACITY SETTING	MODEL	18K 1.5TON	24K 2TON	30K 2.5TON	36K 3TON	42K 3.5TON	48K 4TON	60K 5TON	61K 5TON
SW2	15.2AC FIN	010,0	001,0	010,1	010,1	011,1	100,1	100,1	100,1
	13.4/15.2AC MCHE	010,0	001,0	010,1	010,1	011,1	100,1	100,1	/
	15.2HP	011,0	001,0	001,0	010,1	011,1	100,1	100,1	100,1

0/1 Definition of dial code switch

		SW2 - 4 definition
	means 0=OFF	100W Fan motor
	means 1=ON	200W Fan motor

* The factory default

MODEL	DESCRIPTION
15.2AC FIN	15.2 SEER2 Fin type heat exchanger cooling only system
13.4/15.2AC MCHE	13.4/15.2 Micro-channel heat exchanger cooling only system
15.2HP	15.2 SEER2 heat exchanger heat pump system

Force	Press 1 s	Forced cooling mode
	Press 6s	Forced defrosting mode
Check	Press 1 s	Check the system paramters

SW1		ON	Reserved	
	SW1-1	OFF	Reserved	*
	SW1-2	ON	Reserved	
		OFF	Reserved	*
	SW1-3	ON	Defrosting cycle:30min	
		OFF	Defrosting cycle:60min	*

WARNING!
CABINET MUST BE PERMANENTLY GROUNDED CONFORM, AND ALL WIRING CONFORM TO UL60335. REPLACEMENT WIRES MUST BE THE SAME GAUGE AND INSULATION TYPE AS ORIGINAL WIRES.

High voltage line
- Factory standard ———
- Field installed — — —
- Factory optional ········
Low voltage line
- Factory standard ———
- Factory optional — · — · —

Factory code	Date	Revision
16023000014756	Jul. 16th, 2024	G

THE WIRING DIAGRAM SHOWN IS FOR REFERENCE ONLY.IT MAYBE DIFFERENT FROM THE ACTUAL PRODUCT.