PART7. Trouble Shooting

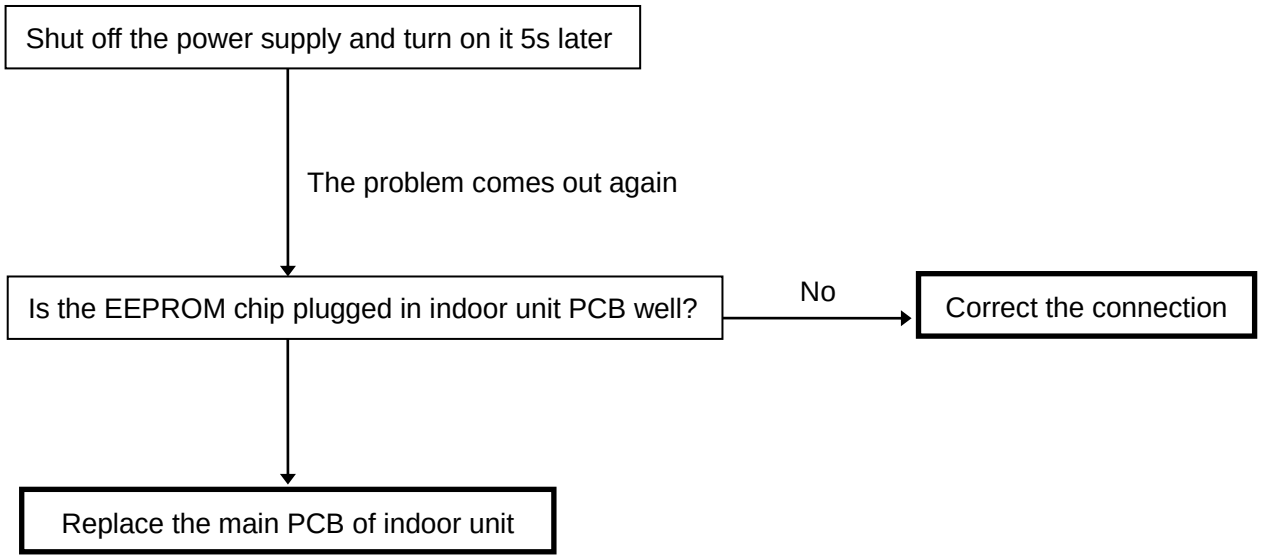
1. Indoor Unit Error Display

Display	LED STATUS
E0	EEPROM parameter error
E1	Indoor unit and outdoor unit communication protection
E2	Zero-crossing signal error
E3	Indoor fan speed has been out of control
E5	Open or short circuit of outdoor temperature sensor or outdoor unit EEPROM parameter error
E6	Open or short circuit of room or evaporator coil temperature sensor
E7	Outdoor fan speed has been out of control
P0	IBM malfunction or IGBT over-strong current protection
P1	Over voltage or too low voltage protection
P2	Temperature protection of compressor top.
P4	Inverter compressor drive error

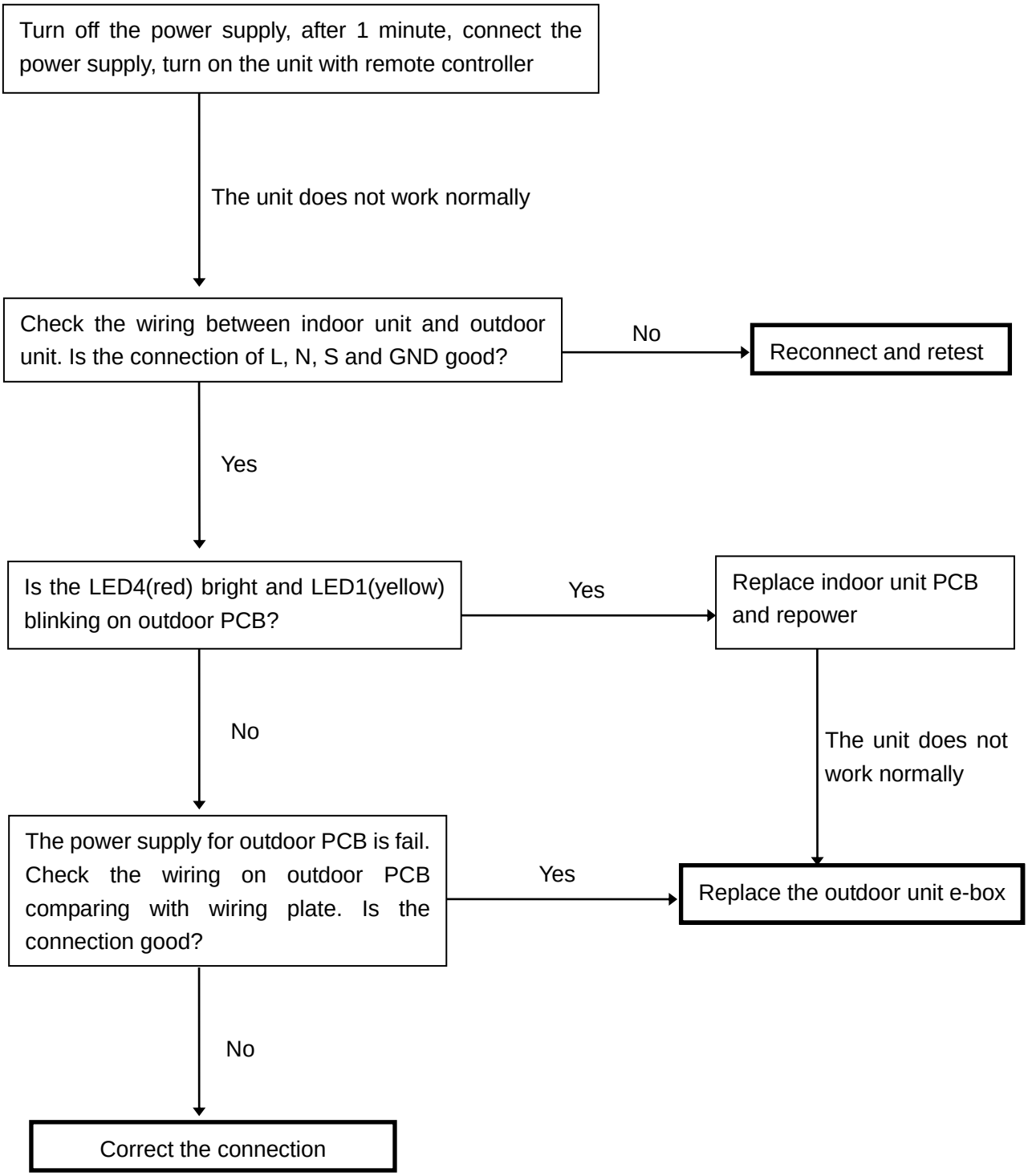
Note: E4 & P3: Reserved function.

2. Diagnosis and Solution

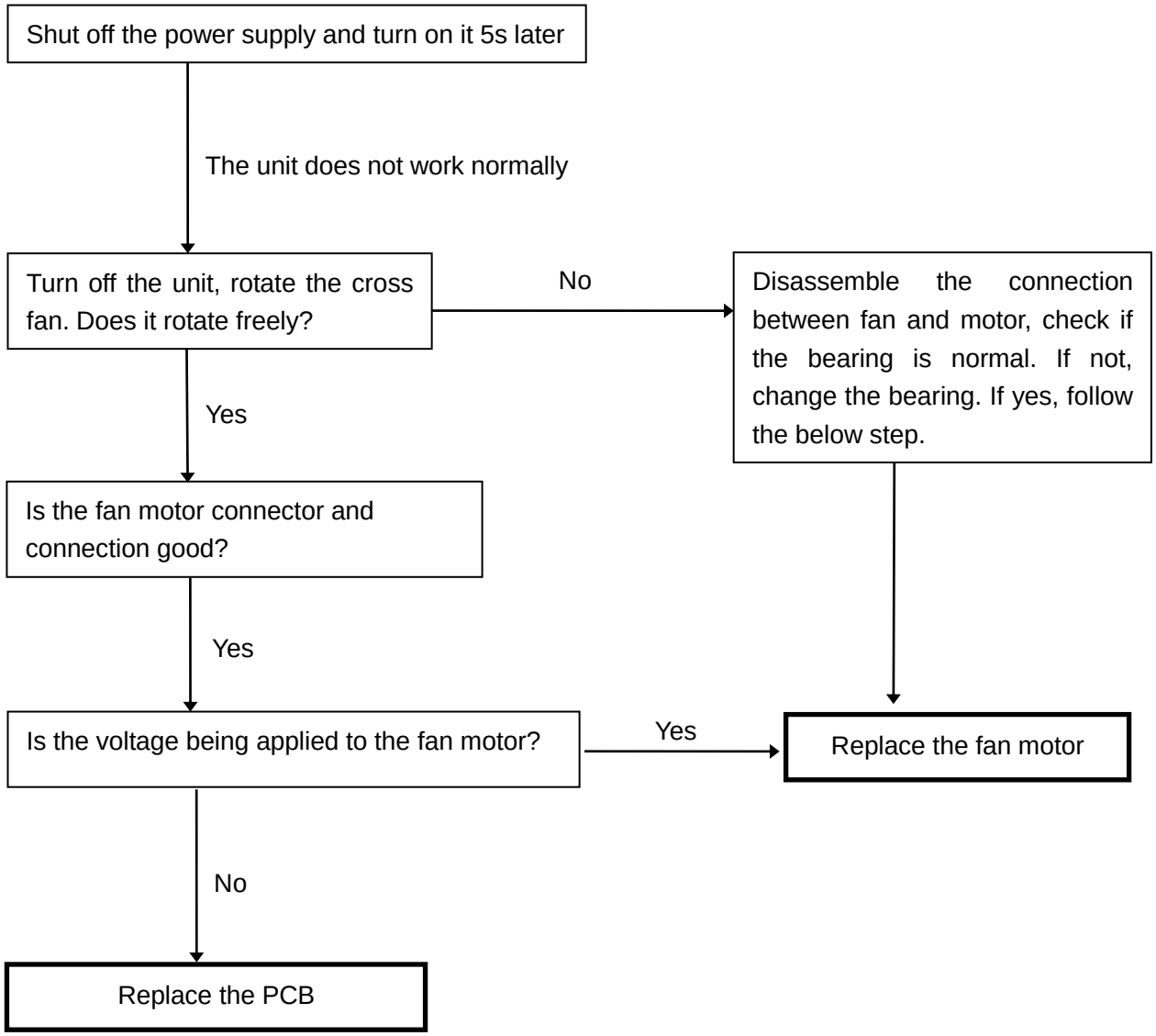
2.1 EEPROM parameter error diagnosis and solution



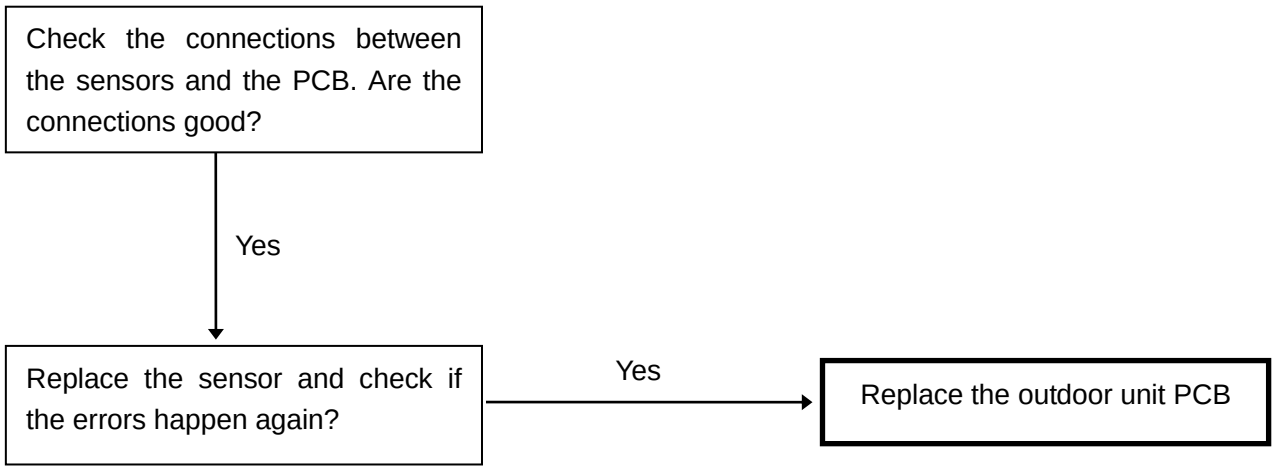
2.2 Indoor unit and outdoor unit communication protection error diagnosis and solution



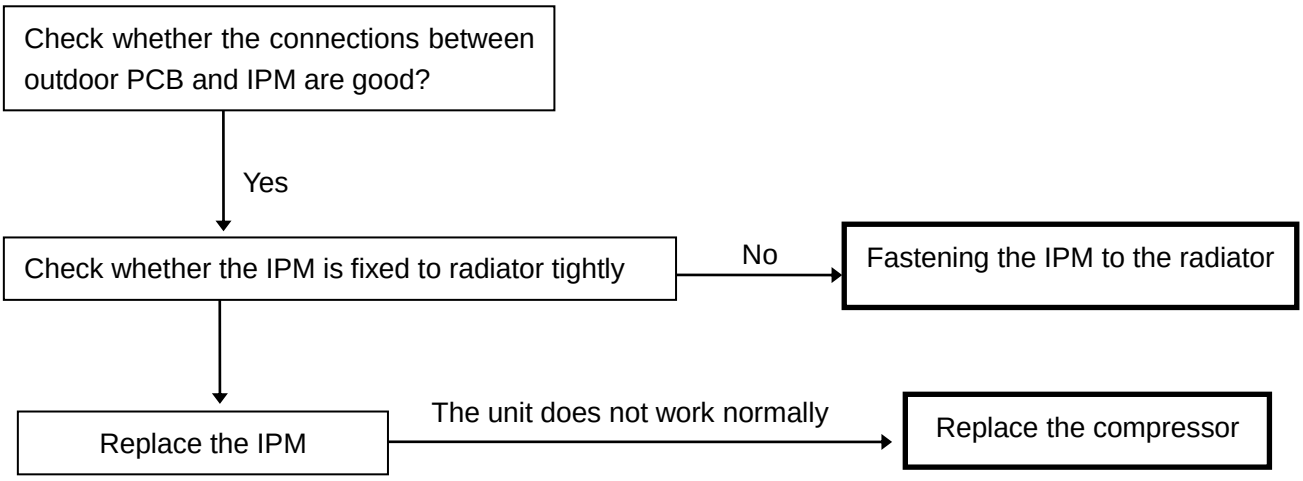
2.3 Fan speed has been out of control diagnosis



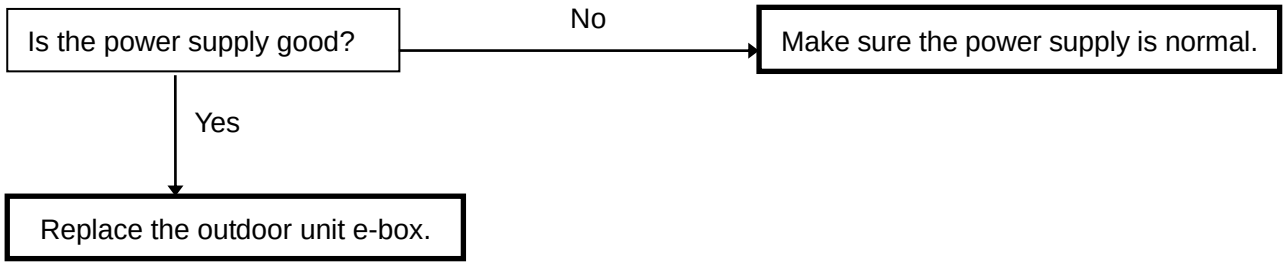
2.4 Open or short circuit of temperature sensor diagnosis and solution



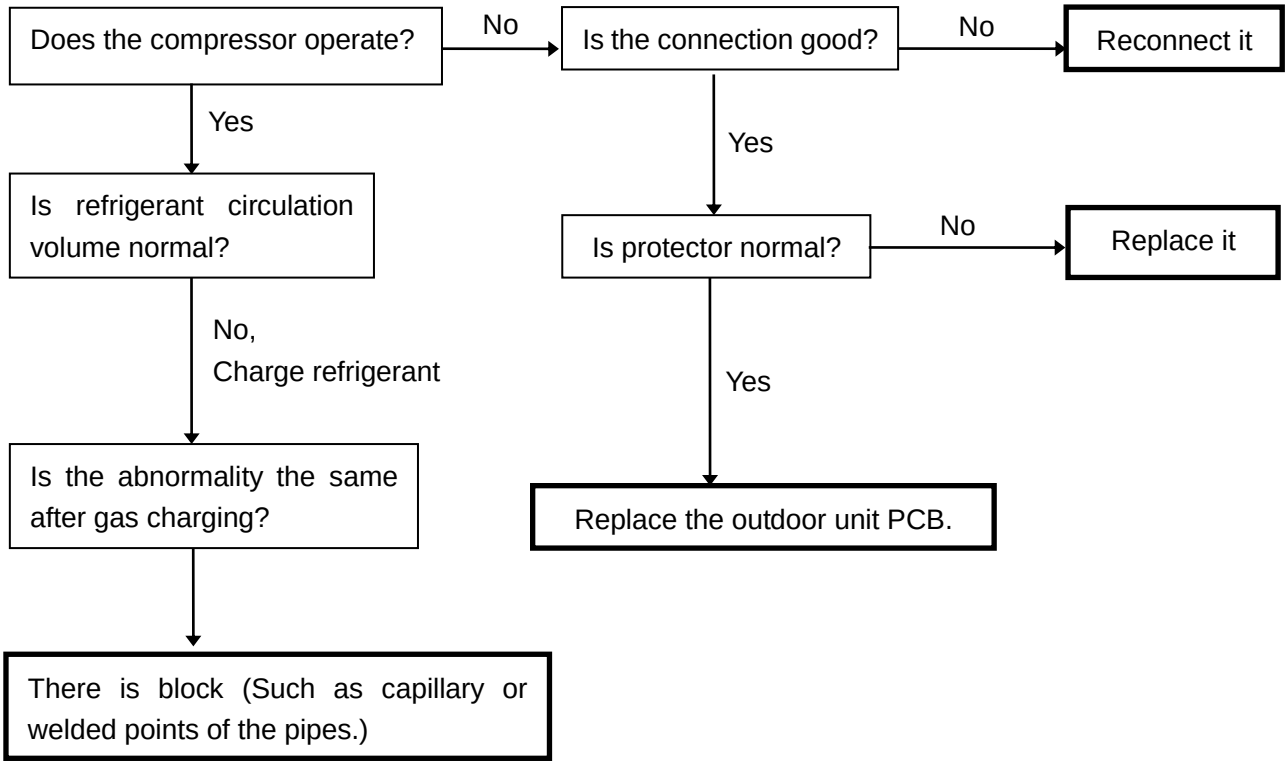
2.5 IGBT over-strong current protection diagnosis and solution



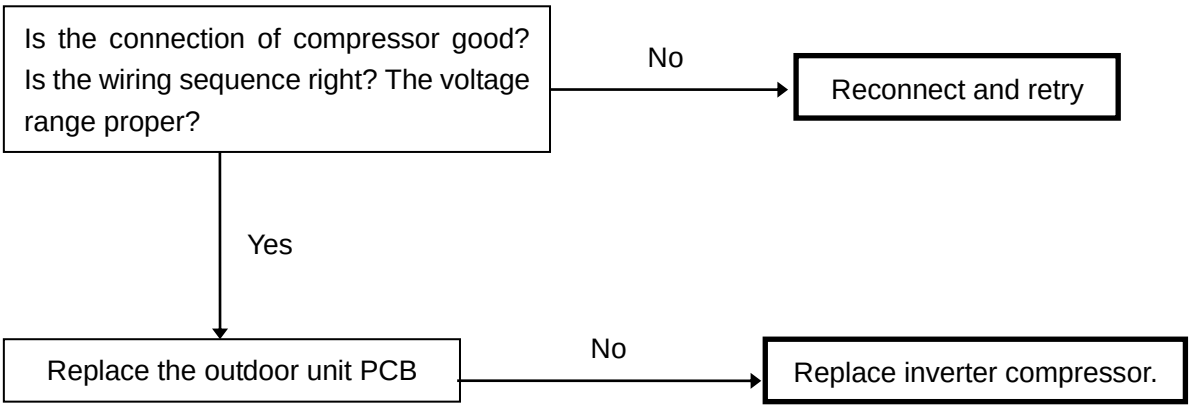
2.6 Over voltage or too low voltage protection diagnosis and solution



2.7 High temperature protection of compressor top diagnosis and solution



2.8 Inverter compressor drive error diagnosis and solution



2.9 Zero crossing detection error

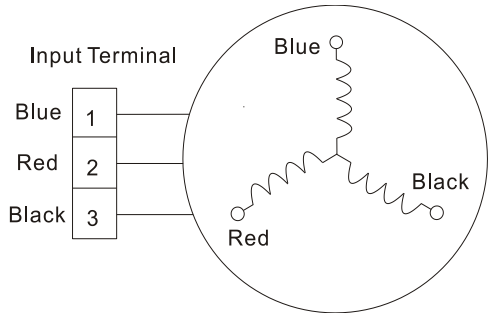
This is alarm signal when the main chip can't detect over-zero signal. When such failure occurs, the main control board must have fault.

3. Key parts checking

3.1 Compressor checking

Model: DA108X1C-20FZ3

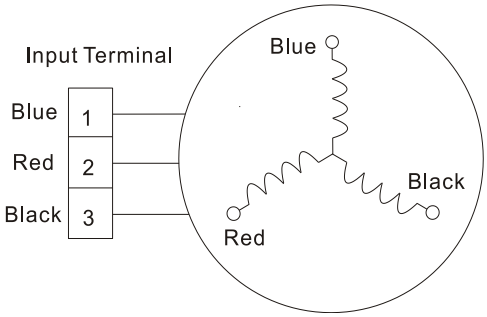
Measure the resistance value of each winding by using the multi-meter.



Position	Resistance Value
Blue - Red	0.71Ω
Blue - Black	(20℃)
Red - Blue	

Model: DA130S1C-20FZ

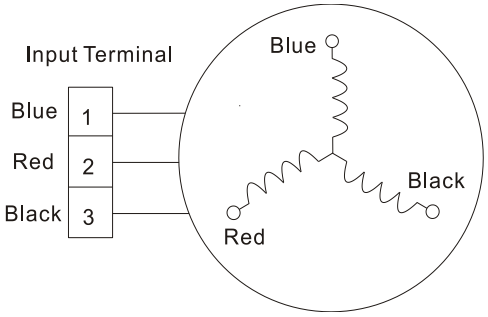
Measure the resistance value of each winding by using the multi-meter.



Position	Resistance Value
Blue - Red	0.95Ω
Blue - Black	(20℃)
Red - Blue	

Model: DA150S1C-20FZ

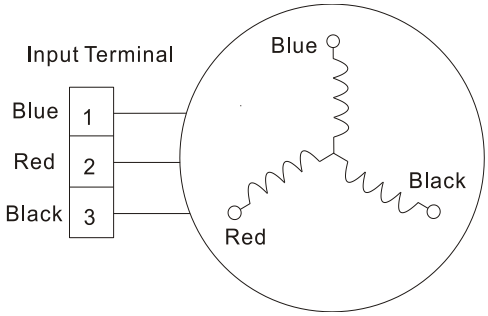
Measure the resistance value of each winding by using the multi-meter.



Position	Resistance Value
Blue - Red	0.95Ω
Blue - Black	(20℃)
Red - Blue	

Model: DA250S2C-30MT

Measure the resistance value of each winding by using the multi-meter.

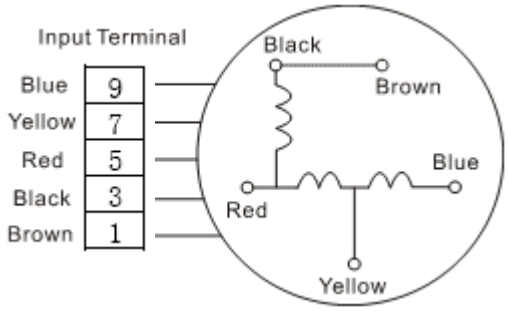


Position	Resistance Value
Blue - Red	0.55Ω
Blue - Black	(20℃)
Red - Blue	

3.2 Outdoor Fan Motor

Model: YDK24-6G

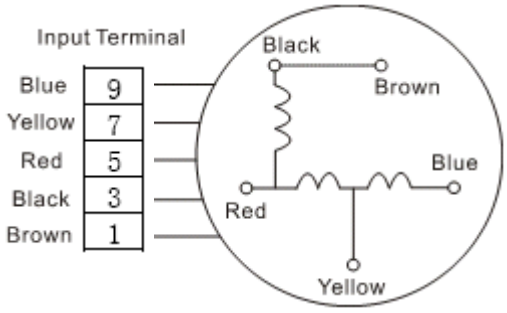
Measure the resistance value of each winding by using the multi-meter.



Position	Resistance Value
Black - Red	372Ω (20℃)
Blue - Red	249Ω (20℃)
Yellow - Blue	132Ω (20℃)

Model: YDK50-6C

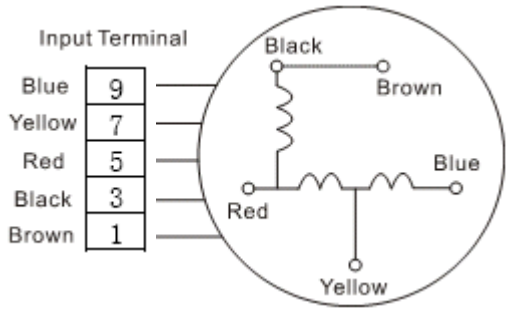
Measure the resistance value of each winding by using the multi-meter.



Position	Resistance Value
Black - Red	114Ω (20℃)
Blue - Red	188Ω (20℃)
Yellow - Blue	172Ω (20℃)

Model: YDK55-6G

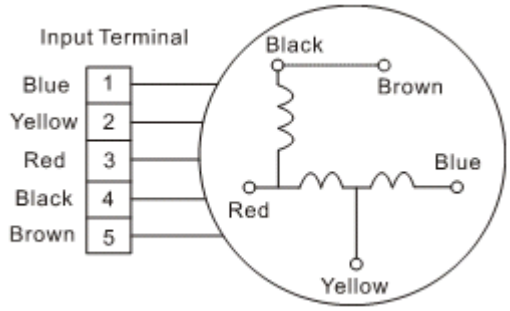
Measure the resistance value of each winding by using the multi-meter.



Position	Resistance Value
Black - Red	191Ω (20℃)
Red -Yellow	220Ω (20℃)

Model: YDK53-6N

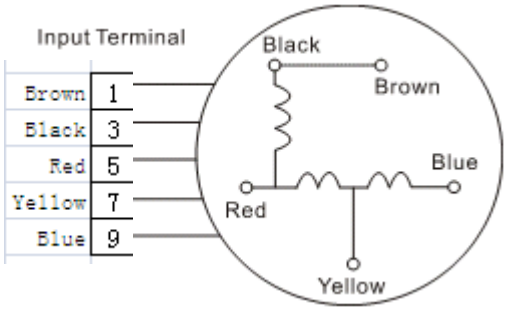
Measure the resistance value of each winding by using the multi-meter.



Position	Resistance Value
Black - Red	87Ω (20℃)
Red -Yellow	162Ω (20℃)

Model: YDK100-6T

Measure the resistance value of each winding by using the multi-meter.

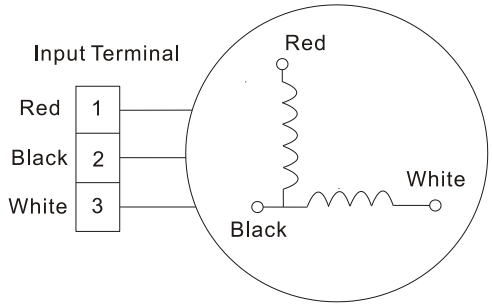


Position	Resistance Value
Black - Red	63Ω (20℃)
Red -Yellow	57Ω (20℃)

3.3 Indoor Fan Motor

Model: RPG20D

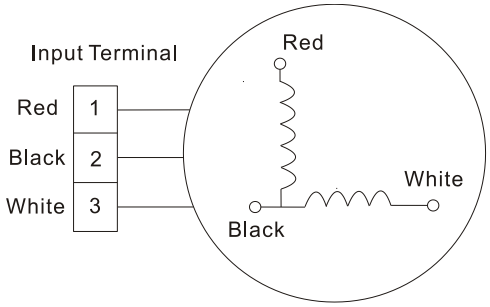
Measure the resistance value of each winding by using the multi-meter.



Position	Resistance Value
Black - Red	400Ω±8% (20℃)
White - Black	383Ω±8% (20℃)

Model: RPG28D

Measure the resistance value of each winding by using the multi-meter.



Position	Resistance Value
Black - Red	260Ω±8% (20℃)
White - Black	385Ω±8% (20℃)