

Testing Fan Motors

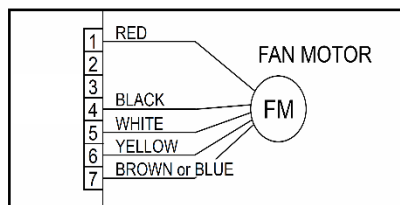
Some examples of a fan motor error on most models:

5x Operation & 6x Timer / 6x Operation & 2x Timer / 6x Operation & 3x Timer / 9x Operation & 7x Timer / 5x Operation & 1x Timer / 6x Operation & continuous Timer blink / Continuous Operation blink & 14x Timer / E:973 / 15x LED 1 (condenser) / 16x LED 1 / E:1b (wired remote) / E:51 (wired remote) / E:97 (wired remote) / E:12 (wired remote)

- Use caution when checking DC volts for fan motors.
- When checking ohms, the fan motor must be de-energized.
- Always check the 3.15 amp fuse on the control board with a continuity test. (If fuse is open replace control board and fan motor).
- Unplug fan motor from control board and spin fan blade by hand to check for any resistance.
- It should turn/spin freely over 2 full revolutions.
- Always ohm fan motor when replacing a Main Control Board.
- When ohming fan motor use a meter that has ohm rating of 400k or higher. Unplug fan motor and place black lead of meter on black wire of fan motor and red lead of meter will go to the other fan leads one at a time. See attached charts for proper ohm readings for your specific motor.
- When checking DC volts for fan motor to determine if board is the problem or fan motor is the problem use the charts below.

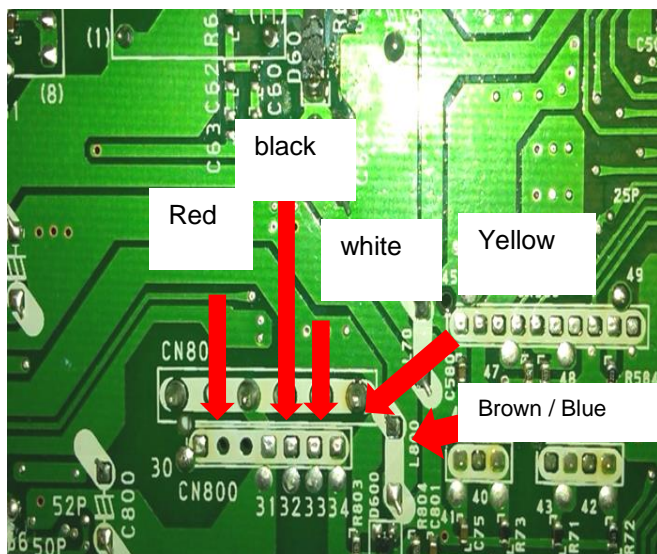
Check Point 4 : Check Output Voltage of Main PCB

- Check outdoor unit circuit diagram and the voltage. (Measure at Main PCB side connector)



Read wire	DC voltage
Red - Black	290V (AC115V-10%)~360V (AC115+10%)
White - Black	15±1.5V

► If the voltage is not correct, replace Main PCB.





Engineering Bulletin

Model	Red-Black	White-Black	Yellow-Black	Blue-Black	Model	Red-Black	White-Black	Yellow-Black	Blue-Black
ASU7RLF ASU9RL ASU9RLF ASU12RL ASU12RLF ASU15RLS Motor MFD-12YYAN	300K-OL	30K-120K	225K-260K	Mega Ohms-OL	ASU18RLF ASU18RLXS ASU18RLB ASU24RLB ASU24CL ASU24CL1 ASU24RL ASU24RLF ASU24RLQ ASU24RLXQ ASU24RLXS ASU30CLX ASU30CLX1 ASU30RLX ASU30RLXB ASU30RLXQ ASU36CLX Motor MFD-50RON	300K-OL	40K-60K	140K-160K	Mega Ohms-OL
ASU9RLQ ASU9RMLQ ASU12RLQ ASU12RMLQ ASU15RLQ ASU18RLQ ASU18CL ASU18RL ASU18RMLQ	300K-OL	1K-2K (40K-60K)	90K-120K (140K-160K)	Mega Ohms-OL					
ASU9R2 ASU9RQ ASU9CQ ASU12R2 ASU12RQ ASU12CQ Motor MFD-12POM	300K-OL	25K-50K	280K-320K	Mega Ohms-OL	AUU7RLF AUU9RML AUU9RLF AUU12RML AUU12RLF AUU18RML AUU18RLF Motor MFF-24VVL	300K-OL	80K-100K	800K-110K	Mega Ohms-OL
ASU7RLF1 ASU9RLF1 ASU12RLF1 Motor MFD-12CYAN					ASU9RLS3 ASU12RLS3 ASU15RLS3 Motor MFD-W60XA2F	2.8K	33K-49K	103K-104K	Mega Ohms-OL
AGU9RLF AGU12RLF AGU15RLF Motor MFD-14SXAN_upper (MFD-14TXAN_lower)					ASU30RLXB ASU36CLX1 Motor MFD-71TXAN				
ASU9RLS2 ASU12RLS2 ASU15RLS2 Motor MFD-12TYL					ARU9RLF ARU12RLF Motor MFG-14WV				
ARU18RLF ARU24RLF Motor MFG24WV					ASU9RL2 ASU12RL2 Motor MFD-12CWN				