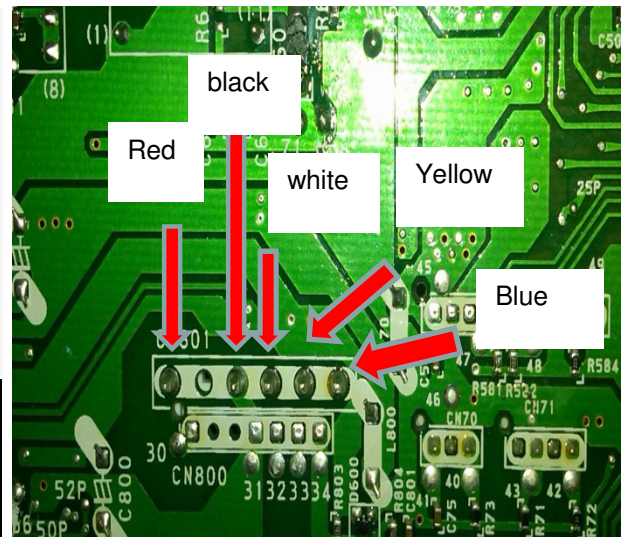
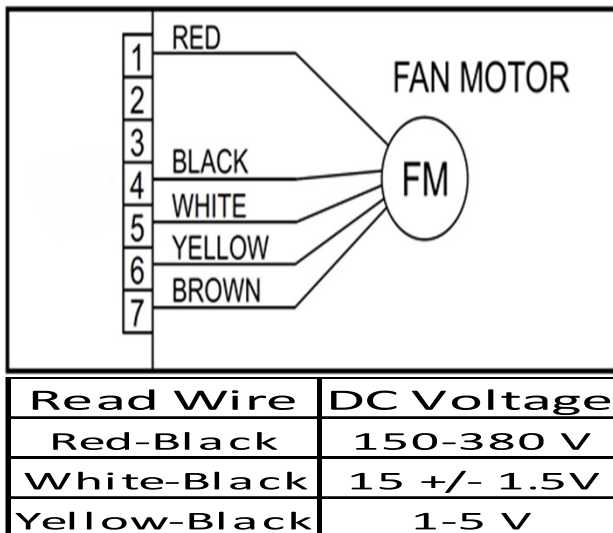


Tech Tips

Testing Fan Motors

- 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.



(Ex. Multi-Zone Control board)



Tech Tips



Outdoor Fan Motor Resistances

| Model | Motor | Test Points | | | |
|------------|---|-------------|------------------|-----------------------|----------------|
| | | R~BK | W~BK | Y~BK | BR~BK or BL~BK |
| AOU15RLS2 | MFE-71TVAL | 400~500K | 110~130K | 70~90K | Mega Ohms~OL |
| AOU9RLS2 | | | | | |
| AOU12RLS2 | | | | | |
| AOU15RLS | | | | | |
| AOU9RLS | | | | | |
| AOU12RLS | | | | | |
| AOU24CL1 | | | | | |
| AOU18RLXFW | MFE-60TVT | 300K~OL | 45~55K | 120~140K | MEGA Ohms~OL |
| AOU18RLXFZ | | | | | |
| AOU18RLXS | | | | | |
| AOU24RLXFW | | | | | |
| AOU24RLXFZ | | | | | |
| AOU24RLXS | | | | | |
| AOU30CLX1 | | | | | |
| AOU30RLX | | | | | |
| AOU36CLX1 | | | | | |
| AOU15RLQ | MFE-18ROM | 300K~OL | 1~2K | 190~210K | MEGA Ohms~OL |
| AOU18CL | | | | | |
| AOU18RL | | | | | |
| AOU18RLQ | | | | | |
| AOU18RLX | <i>MFE-45VVT{White} (MFE-45-ROM){Black}</i> | 300K~OL | 40~50K (1.2K) | 120~140K (190~210) | MEGA Ohms~OL |
| AOU24RLX | | | | | |
| AOU24RLXQ | | | | | |
| AOU24RML | | | | | |
| AOU24RML1 | | | | | |
| AOU30CLX1 | | | | | |
| AOU30RLXQ | | | | | |
| AOU36CLX | | | | | |
| AOU36RLX | | | | | |
| AOU36RLXFZ | | | | | |
| AOU36RML | | | | | |
| AOU36RML1 | | | | | |
| AOU42RLX | | | | | |
| AOU12CQ | MFE-12POM | 300K~OL | 1~2K | 190~210K | Mega Ohms~OL |
| AOU12R2 | | | | | |
| AOU12RQ | | | | | |
| AOU9CQ | | | | | |
| AOU9R2 | | | | | |
| AOU9RQ | | | | | |
| AOU24CL | MFE-24ROM | 300K~OL | 1~2K | 190~210K | Mega Ohms~OL |
| AOU24RL | | | | | |
| AOU24RLQ | | | | | |
| AOU9RLFW | MFE-28TVAL | 300K~OL | 120~150K | 80~100K | Mega Ohms~OL |
| AOU12RLFW | MFE-40WL | 300K~OL | 30~45K | 80~100K | Mega Ohms~OL |



Tech Tips



Indoor Fan Motor Resistances

| Model | Motor | R~B | W~B | Y~B | BR or BL~BK |
|-----------|------------|---------|---------|----------|--------------|
| ASU7RLF | MFD-12YYAN | 300K~OL | 30~120K | 225~260K | MegaOhms~OL |
| ASU9RL | | | | | |
| ASU9RLF | | | | | |
| ASU12RL | | | | | |
| ASU12RLF | | | | | |
| ASU15RLS | | | | | |
| ASU18RLF | MFD-50RON | 300K~OL | 40~60K | 140~160K | MegaOhms~OL |
| ASU18RLXS | | | | | |
| ASU24CL | | | | | |
| ASU24CL1 | | | | | |
| ASU24RL | | | | | |
| ASU24RLF | | | | | |
| ASU24RLQ | | | | | |
| ASU24RLXQ | | | | | |
| ASU24RLXS | | | | | |
| ASU30CLX | | | | | |
| ASU30CLX1 | | | | | |
| ASU30RLX | | | | | |
| ASU30RLXQ | | | | | |
| ASU36CLX | | | | | |
| ASU9RLQ | MFD-34ROAN | 300K~OL | 1~2K | 90~120K | Mega Ohms~OL |
| ASU9RMLQ | | | | | |
| ASU12RLQ | | | | | |
| ASU12RMLQ | | | | | |
| ASU15RLQ | | | | | |
| ASU18RLQ | | | | | |
| ASU18RMLQ | MFD-34ROBN | 300K~OL | 40-60K | 140~160 | Mega Ohms~OL |
| ASU12RLS | | | | | |
| ASU9RLS | MFD-12POM | 300K~OL | 25~50K | 280~320K | Mega Ohms~OL |
| ASU9R2 | | | | | |
| ASU9RQ | | | | | |
| ASU9CQ | | | | | |
| ASU12R2 | | | | | |
| ASU12RQ | | | | | |
| ASU12CQ | MFF-24VVL | 300K~OL | 80~100K | 80~110K | Mega Ohms~OL |
| AUU9RML | | | | | |
| AUU9RLF | | | | | |
| AUU12RML | | | | | |
| AUU12RLF | | | | | |
| AUU18RML | | | | | |
| AUU18RLF | MFG-14WV | 300K~OL | 20~50K | 80~110K | Mega Ohms~OL |
| ARU9RLF | | | | | |
| ARU12RLF | MFG-24WV | 300K~OL | 25~55K | 70~100K | Mega Ohms~OL |
| ARU18RLF | | | | | |
| ARU24RLF | | | | | |