

The RT3K kit includes an RT3 Remote control with two AAA batteries already installed, an RM3 Radio Module, an FC3J Fan Control and a 7' plug&play cable. The optional TS3 Outdoor Temperature Sensor can be added to the installation to delay fan operation if the outdoor temperature is too warm to provide cooling.

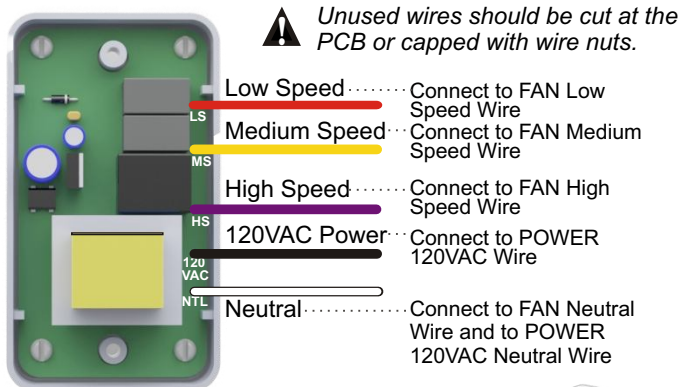
⚠ CAUTIONS

- Turn off power before installing whole house fan or controls.
- Recommended Operating Temps 20°F to 140°F. During extreme temperatures, it's recommended that power to the fan be removed to ensure that electronic components aren't damaged when exposed to extreme conditions. The fan can be plugged into a smart switch, wired to a switch or plugged into an outlet already wired to a switch.
- Read and follow all instructions carefully, including those included with the whole house fan. Read entire manual before installing products.
- Follow all local electrical codes during installation. All wiring must conform to local and national electrical codes.
- Installation should be performed by a qualified individual with sufficient experience and skill.
- Use cautions when mounting components to surfaces that may have concealed wiring beneath the surface.
- When servicing WHF controls, turn off all power to these items.

Step 1. Install FC3J in Junction Box on Fan

Wire the FC3J to the fan using the diagram below as a guide. If the FC3J fan control is already installed on the fan, go to Step 2.

- ❗ See FC3J Wiring Diagrams on pages 3-4 for wiring to fans manufactured by QC Manufacturing.

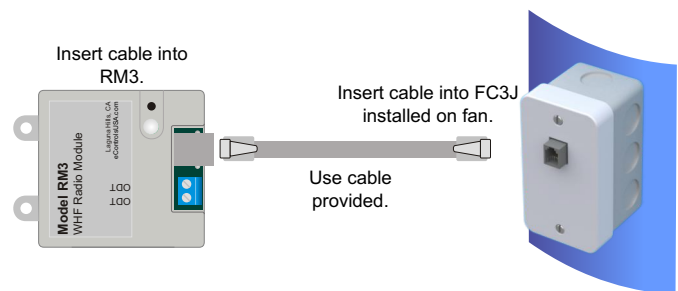


Use the screws included to secure the FC3J to the junction box on the fan making sure there are no exposed wires and the fan control is securely inside the electrical box. Failure to do so could result in electrical shock.



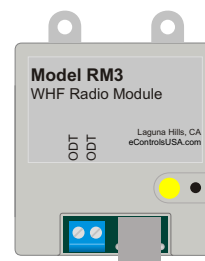
Step 2. Connect RM3 to the FC3J

Connect the FC3J Fan Control installed in the junction box on the fan to the RM3 Radio Module using the plug&play cable provided.



Step 3. Power the Fan

- ❗ If you are installing the optional outdoor temperature sensor, install the sensor first then power the fan. See the TS3 Sensor Installation included with the sensor.



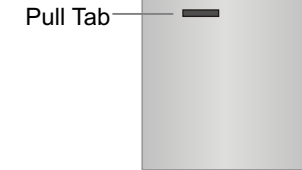
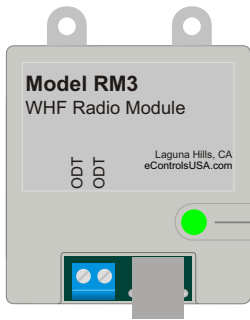
Apply power to the fan. If the fan automatically starts up, remove power and check the wiring. If the problem persists, contact eControls.

The LED on the RM3 Radio Module blinks yellow until communication with the RT3 Remote has been established.

Step 4. Establish Communication Between RT3 Remote and RM3 Module

The RT3 Remote and RM3 Module are prelinked and automatically establish communication once the units are powered.

Use the pull tab on the back of the RT3 Remote to activate the AAA batteries already installed. Tilting the remote up will light the LCD and establish communication with the RM3.

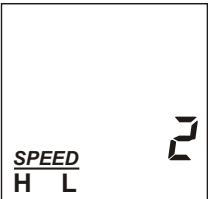


The RM3 LED turns solid green and WL is displayed on the RT3 once the units are communicating, usually within seconds.

Step 5. Set Options

Set the Number of Fan Speeds

The RT3 is factory set to a 2-speed fan. For 3-speed and 1-speed fan installations, set the Number of Fan Speeds to reflect the type of fan installed.



Access Options- Press and hold the **MODE** key then while holding the **MODE** key, press either **▲** or **▼** to display the first option.

- Press the **MODE** key until Speed is displayed.
- Press the **▲** or **▼** key to change the number of speeds. The change is saved when the backlight turns off.

High Speed Start

For some installations, a low speed start may not be adequate to fully open the damper doors. When this option is set to ON and starting the fan in low speed, the fan will start in high speed to open the damper doors and after about 10 seconds will return to the low speed setting. Default is Off.



Access Options- Press and hold the **MODE** key then while holding the **MODE** key, press either **▲** or **▼** to display the first option.

- Press the **MODE** key until HSS is displayed.
- Press the **▲** key to turn the option on or press the **▼** key to turn the option off. The change is saved when the backlight turns off.

Step 6. Checking the Installation

CHECK FAN OPERATION

The fan defaults to Timer Mode. Press the **ON/OFF** key to turn the fan ON.

CHECK FAN SPEEDS

2-Speed Fan

- Verify that the fan is running in High speed.
- Press the **SPEED** key to change to Low (L). Verify the fan is running in Low speed.
- Press the **SPEED** key to return to High (H) speed.

3-Speed Fan

- Verify that the fan is running in High speed.
- Press the **SPEED** key to change to Low (L). Verify the fan is running in Low speed.
- Press the **SPEED** key to change to Medium (M). Verify the fan is running in Medium speed.
- Press the **SPEED** key to return to High (H) speed.

Press the **ON/OFF** key to turn the fan OFF.

FC3J Wiring Diagrams for fans manufactured by QC Manufacturing

Use the tables below to determine which wiring diagram to wire the Fan and Power to the FC3J. The wire colors used by the Fan manufacturer for high, medium and low speed vary with fan models. The model number is on a label on the Fan.

CLASSIC Series

Blue Fan, PSC Motor

Model #	Speeds	Wiring Diagram
CL-1500	One	WD-01
CL-2250	Two	WD-02
CL-3100	Two	WD-02
CL-4700	Two	WD-02
CL-5400	Two	WD-02
CL-6000	Two	WD-02
CL-7000	Two	WD-02

TRIDENT PRO Series

Red Fan, PSC Motor

Model #	Speeds	Wiring Diagram
Tri Pro-1.5X	One	WD-01
Tri Pro-2.5X	Two	WD-02
Tri Pro-3.3X	Two	WD-02
Tri Pro-4.8X	Two	WD-02
Tri Pro-5.5X	Two	WD-02
Tri Pro-6.0X	Two	WD-02
Tri Pro-7.0X	Two	WD-02

ENERGY SAVER Series

Green Fan, ECM Motor

Model #	Speeds	Wiring Diagram
ES-1500	One	WD-03
ES-2250	Two	WD-04
ES-3100	Two	WD-06
ES-4700	Two	WD-06
ES-5400	Two	WD-06
ES-6000	Two	WD-06
ES-7000	Two	WD-06

STEALTH PRO Series

Black Fan, ECM Motor

Model #	Speeds	Wiring Diagram
STL Pro 1.5X	One	WD-03
STL Pro 2.5X	Two	WD-04
STL Pro 3.3X	Two	WD-06
STL Pro 4.8X	Three	WD-05
STL Pro 5.5X	Three	WD-05
STL Pro 6.0X	Three	WD-05
STL Pro 6.7X	Three </tr	

⚠ Cautions - Be sure to follow all codes in your locality.

Safety

Be sure all power to the Fan is OFF before attempting any wiring.

Power Wiring

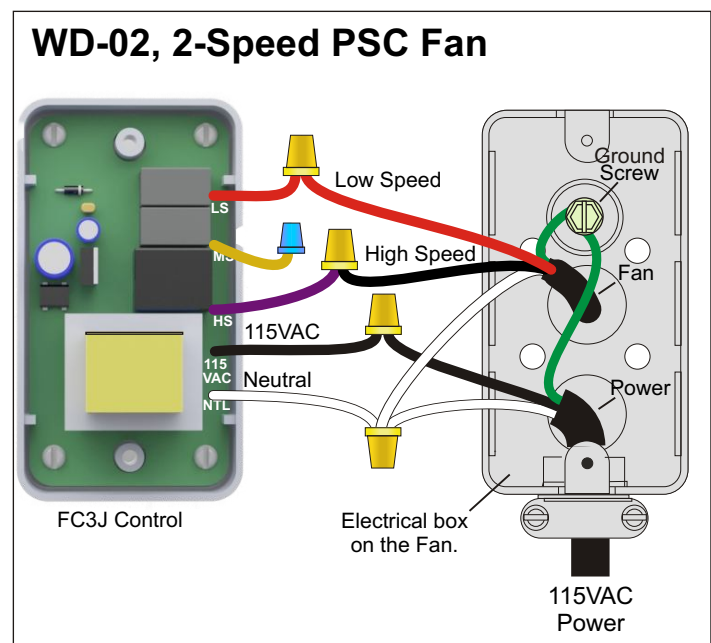
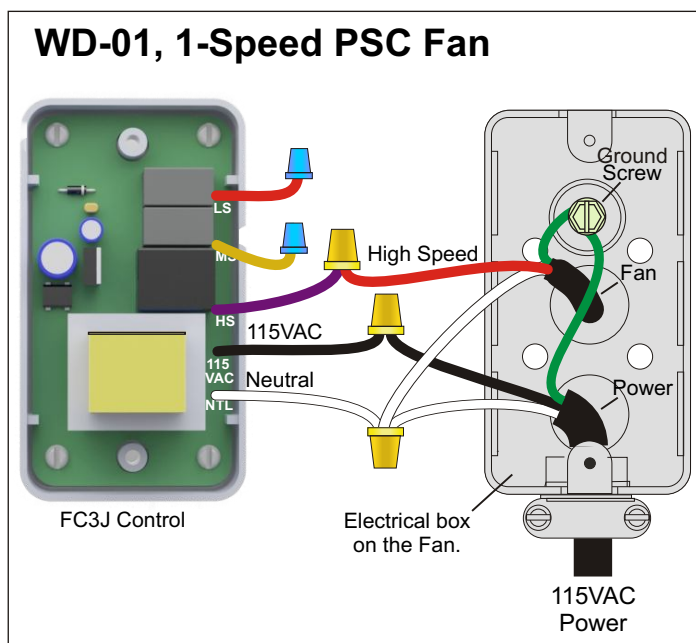
Use AWG14 Romex cable or a heavy duty (15A) power cord to power the Fan.

Ground Wiring

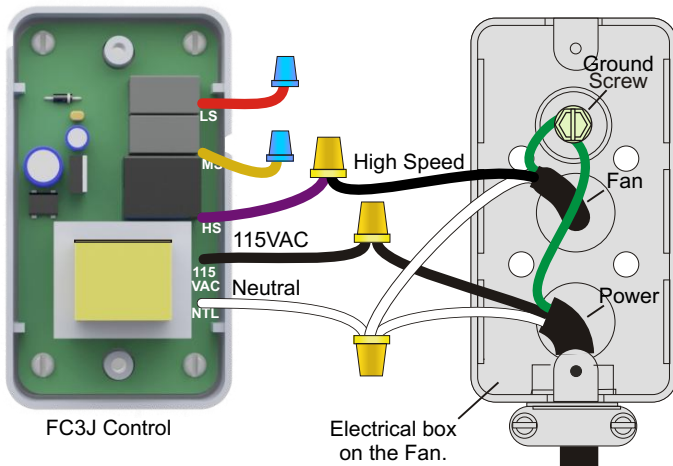
All green or bare copper ground wires should be tied together and to the ground screw in the bottom of the electrical box on the Fan.

Unused Wires

Be sure to cap any unused wire from the FC3J with smaller blue wire nuts.



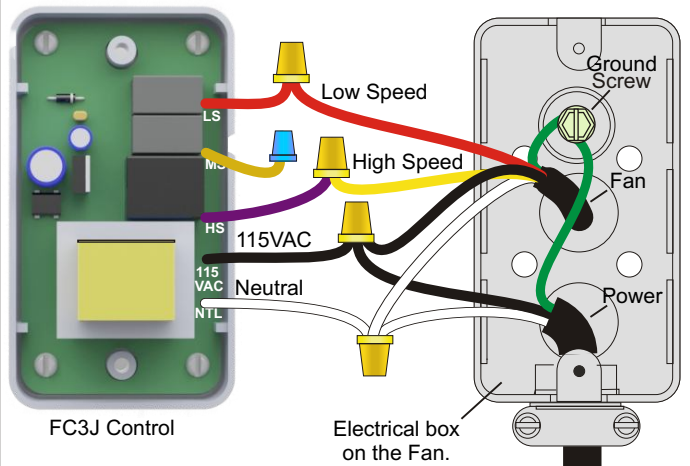
WD-03, 1-Speed ECM Fan



*Black wire from fan motor may be solid black or black with white stripe.

115VAC
Power

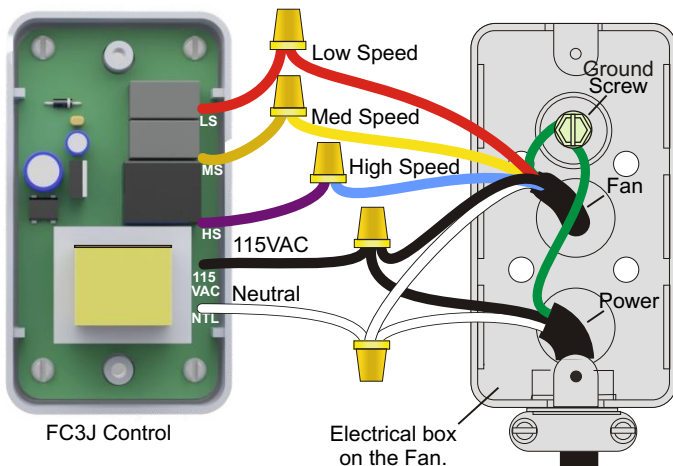
WD-04, 2-Speed ECM Fan



*Black wire from fan motor may be solid black or black with white stripe.

115VAC
Power

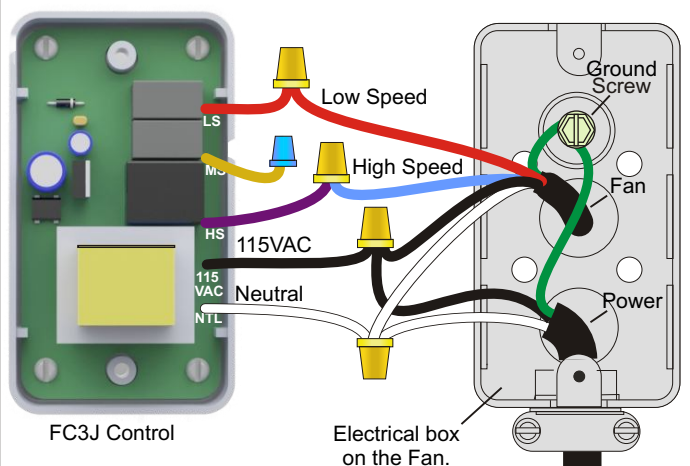
WD-05, 3-Speed ECM Fan



*Black wire from fan motor may be solid black or black with white stripe.

115VAC
Power

WD-06, 2-Speed ECM Fan



*Black wire from fan motor may be solid black or black with white stripe.

115VAC
Power

TROUBLESHOOTING

LED on RM3 Radio Module not lit.

Ensure that the cable is completely plugged into the connectors on the RM3 and the FC3J. Ensure the cable and the connector on the FC3J were not damaged during the fan installation into the attic. Ensure the fan is powered.

RT3 Remote doesn't seem to be communicating

The RT3 and RM3 are prelinked to each other and are identified by an ID # on the back of the units. Ensure that the RT3 and the RM3 ID #s match.

"Rattle" in Remote

You're likely hearing the tilt mechanism used to turn the display on when the remote is lifted or moved. This is normal.

Fan speeds available seems incorrect.

Ensure that the number of speeds set in Step 5 correspond to the type of fan installed - 1-speed, 2-speed or 3-speed fan. Check with your installer or the whole house fan manual if unsure about the type of fan installed.

Keys aren't responding

Make sure you're pressing the key in a thoughtful manner, observing the change on the remote then releasing the key.

Damper doors aren't opening

See Step 5. Option-High Speed Start. If the dampers don't open in High speed, contact the fan manufacturer.

Warranty

This thermostat is warranted to be free of defects due to workmanship or materials under normal use and service for a period of 5 years from date of installation and not longer than 6 years from manufacturing date code.

eControls

26072 Merit Circle #110 / Laguna Hills, CA 92653
949-916-0945 Fax 949-458-8502 www.eControlsUSA.com