

RF SMART DIMMER — RF9534-N and RF9536-N

For Incandescent/MLV Lighting Fixtures

RF9535-N and RF9537-N

For ELV Lighting Fixtures

RF9542-Z

RF Accessory for multi-location

INSTALLATION INSTRUCTIONS

WARNING:

- Turn OFF circuit breaker or remove fuse(s) and test that power is off before wiring.
- Never wire any electrical device with power turned on. Wiring dimmer with power on may cause permanent damage to dimmer and void warranty.
- If you are not sure about any part of these instructions, please contact a licensed electrician.

CAUTION:

- Use only with 120V AC 60 Hz.
- Do not exceed maximum rating of the dimmer as indicated on the device.
- Must be installed and used in accordance with electrical codes.
- If a bare copper or green ground connection is not available in the wallbox, contact a licensed electrician for installation.
- To avoid overheating and possible damage to other equipment, do not use to control receptacles, fluorescent lights, motor-driven appliances, transformer supplied appliances, etc.
- Use only #14 or #12 copper wire with these devices.

NOTES:

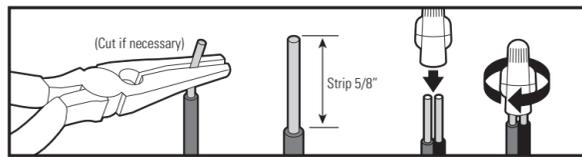
- The RF Master Dimmer is wired directly to the light fixture.
- The RF Smart Dimmer is not compatible with standard 3-way switches.
- For Multi-location applications (3-Way or 4-Way) the RF Smart Accessory Dimmer(s) is used along with one RF Master Dimmer.
- The RF Accessory Dimmer communicates via RF signals to control the light from more than one location.
- For multi-location control use RF Smart Dimmer Master direct wired to the light along with RF Accessory (RF9542-Z). **The RF Accessory does not require direct connection to the light (use Association function).**
- When installing more than one dimmer in a wall box the total lamp wattage must be reduced. See Ganging chart below.

Z-Wave Device Network Installation Instructions

- This product may be added to a new or existing Z-Wave network. A Cooper Wiring Devices Z-Wave device has a blue LED, which will blink when the device is not included in a Z-Wave network. The LED stops blinking when the device is in a network.
- To include this device in a Z-Wave network, select the command on your Z-Wave controller for inclusion (Install, Add Device, Add Node, Include Device, etc.). Then press the device switch one time to include it in the network. The LED will stop blinking.
- To exclude this device from a Z-Wave network, select the command on your Z-Wave controller for exclusion (Uninstall, Remove Device, Remove Node, Exclude Device, etc.). Then press the device switch one time to exclude it from the network. The LED will start blinking.
- This product works with other Z-Wave products from different vendors and product categories as part of the same network.
- This product is a listening node and it will act as a repeater in the Z-Wave network. It will perform the repeater function with Z-Wave products from Cooper and from other Z-Wave vendors.

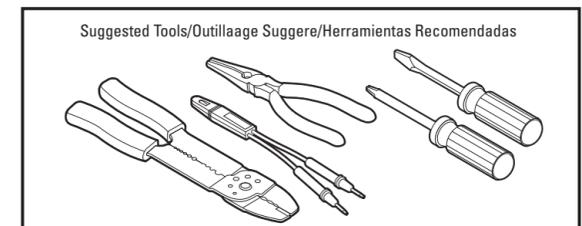
IMPORTANT:

RF Smart dimmer will not work or will become damaged if wired incorrectly, and warranty will be voided. Refer to wiring instructions provided on reverse side.



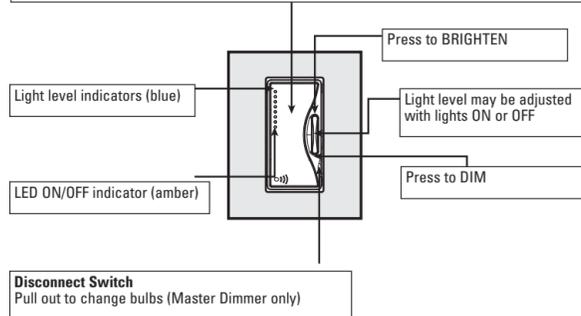
GANGING When ganging multiple Smart Dimmer Masters in one wall box, derating is required as follows:

| CATALOG # | Loads | Single Gang | Double Gang | Triple Gang or more |
|-----------|---------|-------------|-------------|---------------------|
| RF9534-N | INC/MLV | 600W/VA | 600W/VA | 600W/VA |
| RF9536-N | INC/MLV | 1000W/VA | 800W/VA | 800W/VA |
| RF9535-N | ELV | 600W | 600W | 600W |
| RF9537-N | ELV | 1000W | 800W | 800W |



OPERATION

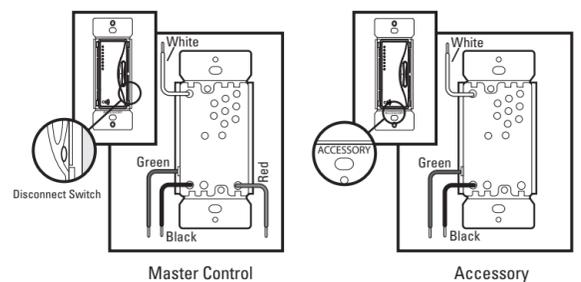
- Press once to turn lights ON at previously selected level.
- Press again to turn lights OFF.
- When lights are OFF, press and hold for 2 seconds for full brightness.
- When lights are ON, press and hold for 2 seconds until the blue LED blinks. After the pre-set delay, the lights will begin fading to OFF (up to 4 minutes).
- ON/OFF LED indicates that dimmer is turned on.



| Symptom | Possible Cause | Solution |
|---|--|---|
| No Function. All LEDs are OFF | A) Light bulb(s) burned out B) Circuit breaker is off or tripped C) Disconnect switch on the dimmer is pulled out to the OFF position D) Improper wiring E) Defective dimmer | A) Replace light bulb B) Turn on the circuit breaker C) Push in the disconnect switch on the dimmer D) Check and correct wiring E) Replace dimmer |
| Erratic operation or flickering LEDs | Loose wiring connections | B) Check and correct wiring |
| Functions normally using the dimmer push buttons but not from Z-Wave controller and one of the blue LEDs blinks ON and OFF about once per second | Dimmer is not included in a Z-Wave network | Include dimmer in a Z-Wave network using a Z-Wave controller. Refer to Z-Wave controller user manual for details. |
| Functions normally using the Master dimmer control but not from Z-Wave controller and no LEDs are blinking | Problem with RF communication on dimmer | Replace dimmer |
| Functions normally both locally and from a Z-Wave controller but can't be controlled from a dimmer accessory switch (RF9542-Z) or other Z-Wave device | The dimmer accessory or other Z-Wave device is not associated with the dimmer you wish to control. | Create an association between the dimmer accessory or other device and the dimmer. Refer to your Z-Wave controller user manual for details. |
| Dimmer is warm to touch after a period of time | This is normal. | No action required |

COOPER WIRING DEVICES LIMITED 5 YEAR WARRANTY
Cooper Wiring Devices (CWD) warrants its RF Smart Dimmer System to be free of defects in materials and workmanship in normal use and service for a period of five years from date of original purchase. THIS FIVE (5) YEAR LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS, OR LIABILITIES, EXPRESSED OR IMPLIED (INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE THAT IS IN DURATION IN EXCESS OF FIVE YEARS FROM THE DATE OF ORIGINAL CONSUMER PURCHASE). NO AGENT, REPRESENTATIVE, OR EMPLOYEE OF CWD HAS AUTHORITY TO INCREASE OR ALTER THE OBLIGATIONS OF CWD UNDER THIS WARRANTY.
To obtain warranty service for any properly installed CWD RF Smart Dimmer System that proves defective in normal use send the defective RF Smart Dimmer System prepaid and insured to Quality Control Dept., Cooper Wiring Devices, 203 Cooper Circle, Peachtree City, GA 30269; in Canada: Cooper Wiring Devices, 5925 McLaughlin Road, Mississauga, Ontario L5R 1B8.
CWD will repair or replace the defective unit, at its option. CWD will not be responsible under this warranty if examination shows that the defective condition of the unit was caused by misuse, abuse, improper installation, alteration, improper maintenance or repair of damage in shipment to CWD. CWD SHALL HAVE NO RESPONSIBILITY FOR INSTALLATION OF THE RF SMART DIMMER SYSTEM, OR FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR ANY SPECIAL, INCIDENTAL, CONTINGENT, OR CONSEQUENTIAL DAMAGES OF ANY KIND, RESULTING FROM DEFECTS IN THE RF SMART DIMMER SYSTEM OR FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT.
THE EXCLUSIVE REMEDY FOR BREACH OF THE LIMITED WARRANTY CONTAINED HEREIN IS THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT AT CWD'S OPTION. IMPLIED WARRANTIES (IF ANY) INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, ARE LIMITED IN DURATION TO A PERIOD ENDING FIVE YEARS FROM THE DATE OF ORIGINAL CONSUMER PURCHASE. IN NO CASE SHALL CWD'S LIABILITY UNDER ANY OTHER REMEDY PRESCRIBED BY LAW EXCEED THE PURCHASE PRICE. Some states do not allow the exclusion or limitation of incidental or consequential damages or allow disclaimers or modifications or limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some Canadian provinces do not allow exclusion or variance of implied warranties so that some or all of the above limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state and province to province. **Read enclosed instructions carefully.** If you have any questions concerning use or care of this product, please write: Consumer Service Division, Cooper Wiring Devices, 203 Cooper Circle, Peachtree City, GA 30269.

READ BEFORE INSTALLATION!



Master Control Accessory

IMPORTANT! How to identify Common Wires

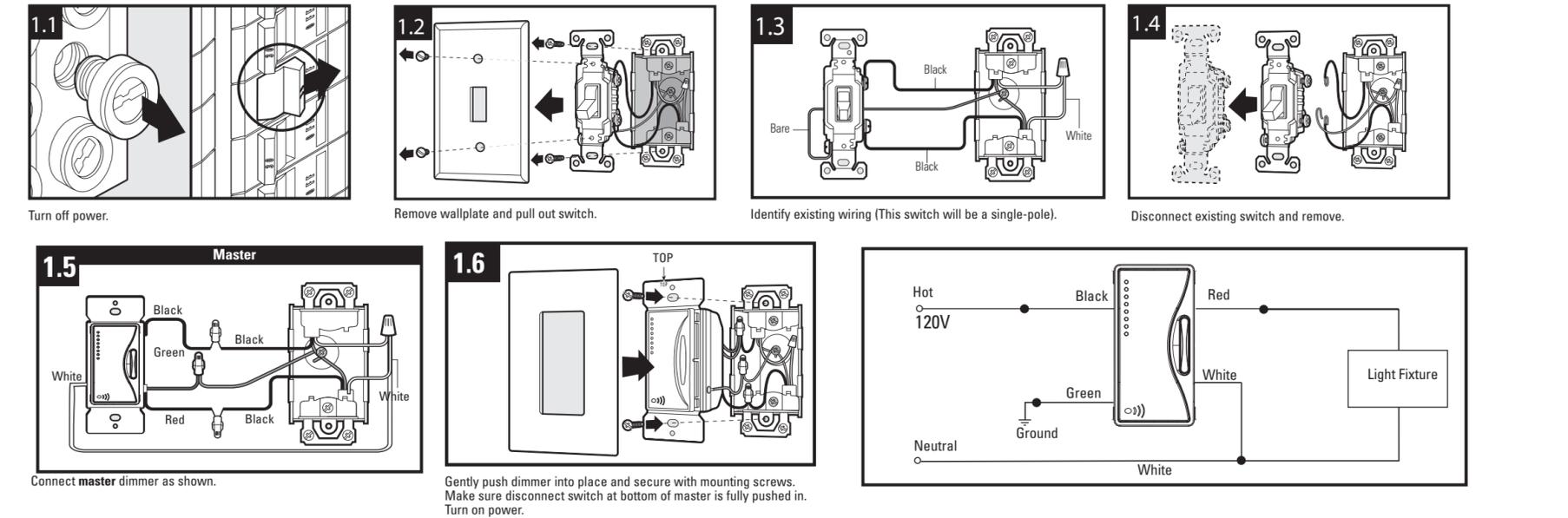
Two location:

Each switch will have insulated wires connected to three terminal screws plus a green or bare wire connected to a green terminal screw. The three terminals are usually one dark colored screw and two light colored screws (ignore the Green screw). Alternatively, the three screws may be the same color and one will be marked COMMON or COM Find the wires connected to the dark or COMMON screws. Usually these wires are black but may be red or blue. Tag these wires on both switches to identify when wiring.

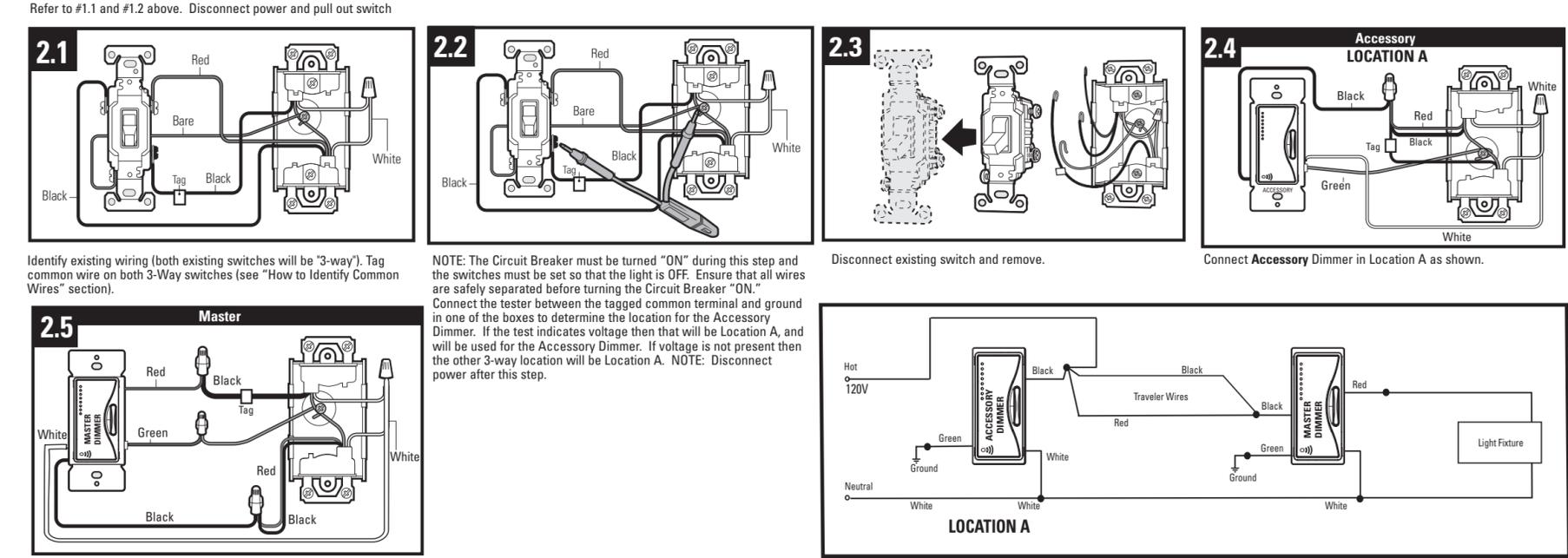
Three location:

Two of the existing switches will be 3-way. The 3-way switches will be located at each end of the circuit with a 4-way switch in between. TAG the two 3-way switches as in the Two Location Control section. The 4-Way switch has 4 insulated wires connected to 4 terminal screws. VERY IMPORTANT - TAG two same color insulated wires, which are connected to screws of opposite colors.

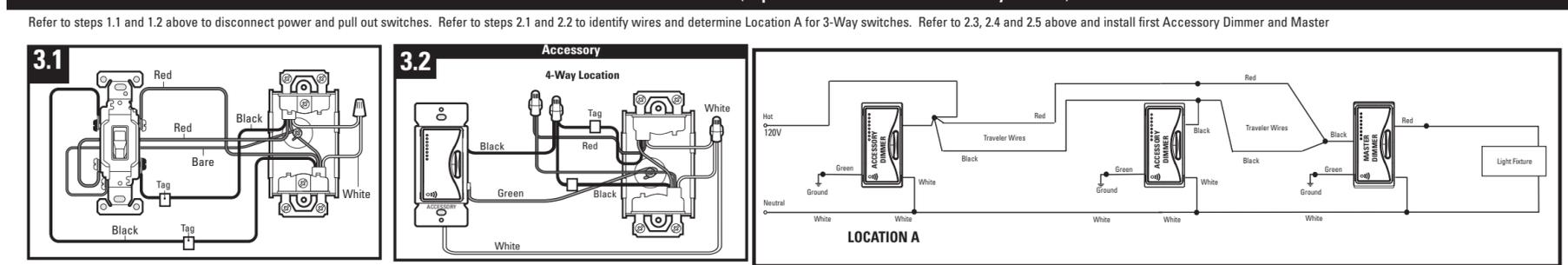
Single Location Control Installation (requires one Master dimmer)



Two Location Control Installation (requires one Master and one Accessory)



Three Location Control Installation (requires one Master and two Accessory dimmers)



Identify existing wiring (4-way switches). Tag common wire on 4-Way switch. See "How to Identify Common Wires" section. Connect the second Accessory Dimmer (4-way switch) as shown. Refer to 1.6 to push dimmers into place.