## 3-Way Wall Dimmer Set Up and Operating Instructions   Model WS4777 (WS477 + CS277)

**WS477 Master** — Blue — Common (to Live) — OFF — ON — **A**

**CS277 Companion** — Red — Traveller wires — Red — Black — Blue — Blue — Common (to lamp)

**WS477 Master** — Blue — Common (to Live) — OFF — ON — Red wire not used — Red — Black — **B**
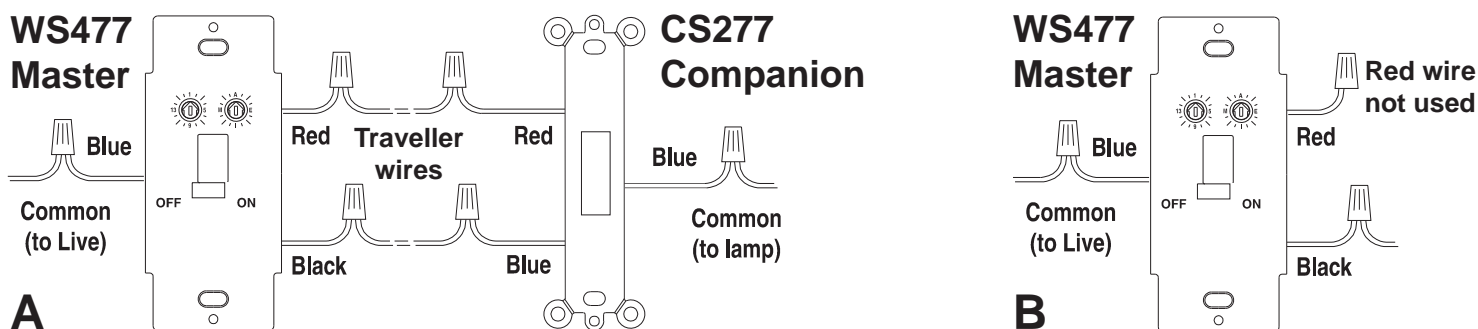
The WS4777 Wall Dimmer Set is designed to control **incandescent only** lights with a rating of between 40W and 500W. Lights rated below 40W might flicker or operate erratically. The switches included in the set are the WS477 Master Switch and CS277 Companion Switch. Both switches are used to replace two switches that control the same light (3-way). A push-button is provided on each switch for local on/off and dim/bright control. Note, you can also use the WS477 master switch by itself to replace a regular switch (diagram B).

**WARNING: Wall Dimmer Modules must not be used to control appliances or fluorescent lamps.**

**Installing the Wall Dimmer Module (3-way applications, diagram A)**
- Disconnect the power at the circuit breaker panel.
- Remove wall plates and unscrew the existing switches from their boxes. Identify the common wire at each existing switch (usually connected to a different color screw terminal).
- Replace one of the existing wall switches with the WS477 Wall Dimmer (Master): connect the common wire to the BLUE wire on the WS477 using a wire nut. Connect the two remaining "traveller wires" to the RED and BLACK wires on the WS477, using wire nuts. If one of the travellers is red connect it to the RED wire on the WS477.
- Replace the other existing wall switch with the CS277 Companion Switch: connect the common wire to one of the CS277's BLUE wires. Connect the traveller which you connected to the RED wire on the WS477 to the RED wire on the CS277. Connect the remaining traveller wire to the second BLUE wire on the CS277. Screw both switches into their wall boxes. Don't replace the wall plates yet.

**Installing the Wall Dimmer Master Module only (single switch applications, diagram B)**
- Disconnect the power at the circuit breaker panel.
- Remove the wall plate and unscrew the existing switch from its box.
- Remove the two wires from the existing switch and connect them to the BLACK and BLUE wires on the WS477, using wire nuts.
- Cap off the unused RED wire with a wire nut. Make sure no bare whiskers of wire are protruding, use insulating tape to cover wire nuts if necessary. Screw the switch into the wall box. Don't replace the wall plate yet.

**Setting up and operating the Wall Dimmer Module**
- Set the House Code dial to the same letter (A thru P) that you set on your X10 controller(s).
- Set the Unit Code dial to an unused code (1 - 16) which can be controlled from any X10 controller.
- Set the power on-off slide switch (under the push button) to the ON (right) position. Turn this switch OFF (left) when changing a light bulb.
- Refit the wall plate(s).
- Turn the power back on at the circuit breaker panel.
- Press the button quickly to turn the module on and off. Press and hold to dim or brighten. Note: if you press the button and nothing happens, you might have pressed it for too long and started to dim the light and not noticed that it dimmed.
- You can turn the module on and off and dim and brighten it remotely from X10 Controllers.
- The Wall Switch Module has soft start, meaning that when you turn it on it gradually ramps up from off to full brightness.