Shunt Capacitor Install Instructions

6 Apr 2015 (v1.4)
29 Jul 2019 – updated part number

About this install guide

Some devices like the IRC, and WSS10, WSS20, ZSS10 No Neutral devices which leak power to the load will encounter situations where they will not work under some ballast, CFL, or LED conditions. For example the IRC product will not work with the Cree **CR** LED fixtures without additional load. The IRC will try to turn the load ON/OFF but the CR LED fixture will never turn the load ON. The 0.47uF Shunt capacitor creates a load/leakage path that will allow the Cree CR fixture to work with IRC and wireless no neutral switch product line.

There are also devices like the ODS0D and ODS10 where we need similar SHUNT capacitor at the fixture to avoid power ON/OFF light cycling. The capacitor used for this device is slightly smaller at 0.1uF. We will need a part number for this device as well,

The Shunt Capacitor can be used for any AC line voltage up to 310VAC (Valid for all US 120V/277V 60Hz installations). Only **ONE** capacitor is to be used per Zone (Relay).

Leviton Shunt Capacitor
Cat. No. SHUNT-047 (0.47uF Cap), SHUNT-001 (0.1uF Cap)
Voltage: 120-277VAC, 50/60Hz

INSTALLATION AND QUICK START GUIDE

WARNINGS AND CAUTIONS:

- **TO AVOID FIRE SHOCK OR DEATH; TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring, servicing, installing or removing device.
- To be installed and/or used in accordance with electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.

Description

The shunt capacitor is to be utilized at the device or fixture of a device where a neutral is available. Only **ONE** capacitor is to be used per zone (relay controlled device).

Installation

- Turn OFF the power to the breaker feeding the fixtures where device is to be placed.
- Inside the junction box or access plate of the first fixture, wire-in the Shunt Capacitor.
    - Using wire nuts, wire one wire to Neutral (White) Wire and the other to the Hot/Switched terminal
    - Push wires safely back into junction box or fixture.

Option 1: **Fixture Install:** Only ONE Capacitor is needed per fixture bank (Zone) being controlled by the device. The Capacitor should be pushed back into the fixture or J-Box with access plates reinstalled.
Option 2: **At Device Install if Neutral is available:** Install ONE Capacitor per relay (Zone) at the device. Capacitor and wires secured in junction box.

****Put Images here?*** Show capacitor going across load/lighting device between the HOT/Switched and Neutral.

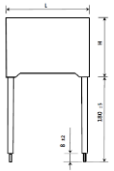
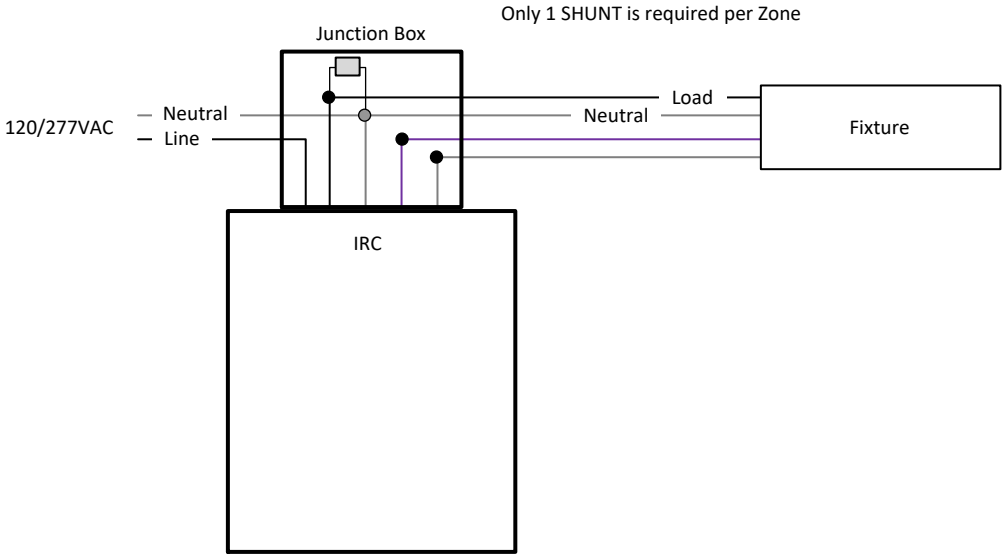


Figure 1. Leviton SHUNT Capacitor



LIMITED 5 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such five year period the product is returned prepaid, with proof of purchase date, and a description of the problem to **Leviton Manufacturing Co., Inc., Att: Quality Assurance Department, 201 North Service Road, Melville, New York 11747**. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. **There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose**, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to five years. **Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation**. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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