



Lamp Dimmer (Plus) Installation Guide

for use with Control4

Introduction 2

The Axxess Lamp Dimmer can be installed into a table lamp's power cord to provide both local user control as well as remote control via the home automation system.

Included in Box:

- Lamp Dimmer Device
- Connector plugs for lamp cords typical in your country
- Connector plug release tool

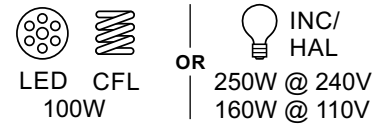
IMPORTANT: Please check you have suitable connector plugs before Installation.

Tools Required:

- Adjustable pliers with smooth jaw
- Quality flush cutters

Power 3

100-240V ~ 60/50 Hz



CAUTIONS: READ ENTIRE Instructions before start of Installation

Be sure to Unplug Power Cord before installation or de-installation. Unplug power cord before bulb change.

Install Dimmer only in 2 wire electrical cords. The Dimmer does not have a separate ground connection - DO NOT install in power cords with 3rd ground wire.

Cutting the Lamp Cord 4

After ensuring the lamp cord is not plugged into a power source, cut the existing in-line switch out of the lamp cord.

On the plug side, cut close to the switch. On the lamp side, cut the cord so that the Dimmer sits in convenient location for the user.

Line & Neutral 5

In jurisdictions where line and neutral polarity must be observed, the Dimmer must be installed with correct polarity. The horizontal position of line (L) and neutral (N) is marked on the bottom label at both ends.

In North America, for example, the neutral plug contact has a wide blade and the neutral wire sheathing is ribbed lengthwise.

Looking from the top towards the lamp, the neutral connector is on the left side. Arrange the power cord at both ends accordingly.

Selecting Connector Sleeve 6

The Axxess Lamp Dimmer ships with several connector plugs matched to common lamp cords.

For European-style lamp cords:

- Type B for round 2 wire cords (H03VV-F)
- Type D for flat 2 wire lamp cords (H03VVH2-F)

Selecting the wrong connector plugs may result in an unsafe installation. The lamp cord should fit snugly into the plug opening; ensure a snug fit before proceeding with installation.

Prepare Lamp Cord 7

Confirm that the Type letters on the plungers match the Type letter on the connector (B with B, D with D).

Strip outer sheathing by at least 2cm=20mm, being careful not to cut or damage the inner wire insulation.



Insert the lamp cord ends into the connector plugs from the wide flange end. The outer sheathing must extend 3mm past plunger 1. Allow wires to protrude out the other end of the sleeve by about 20mm.

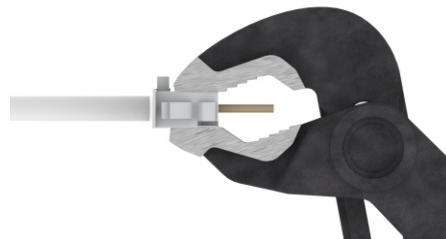


Compressing Plunger 1 8

Before compressing the plungers, straighten the lamp cord as much as possible.

The compression plungers are marked 1 and 2 respectively. Use the pliers to compress plunger 1 into the plug first.

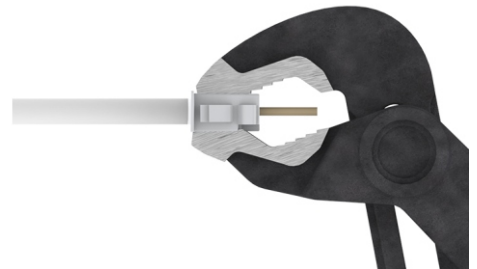
Squeeze pliers until the jaws come to rest flat on the top and bottom surface of the plug. Do not squeeze so hard as to crush or deform the plug itself.



Compressing Plunger 2 9

Upon compression, the plunger should remain arrested in its compressed position.

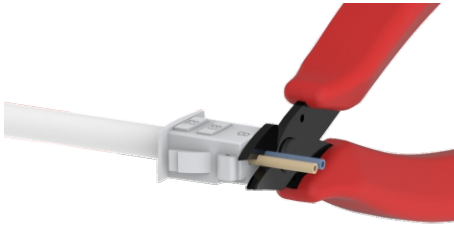
Next, compress plunger 2. Be careful not to damage the large flange with the jaws of the pliers.



The plungers may bounce back a bit after compression, but should not bounce back by more than 0.5mm. If they do, repeat compression.

Flush Cut Wire Ends 10

Using good flush cutters, cut the wire ends protruding from the connector plug.



After cutting, the wires should not protrude more than 0.5 mm



Test Connector 13

Test connection by pulling on the wire. The plug is designed to withstand at least 640N.

If after testing one side of the flange sticks out a little further than the other, press that side in once more, listening for a click. If the plug can be pulled out you do not have connection. Repeat test on the second plug.

Plug Power Cord Into Wall Outlet & Test

The light level indicators should cycle in response to boot-up.

The light level LEDs will cycle from bottom to top if the Dimmer is already joined to a ZigBee Network, or from top to bottom if the Dimmer is not yet joined.

Dimmer Plus Functions 16

Dimmer Plus offers the functionality of 4 buttons on the right side of the Dimmer in addition to the dimmer function on the left.



These 4 buttons can be programmed in Composer in the usual way.

For large installations, the button symbols can be customized at the factory.

Preparing To Plug In Connectors 11

Before plugging the connectors in to the Lamp Dimmer, ensure that:

- the plungers are not protruding by more than 0.5mm.
- the plungers are facing up, not down.
- the 2 connectors are pointed at the correct end of the Dimmer (check bottom label).



The cord section leading to the lamp plugs into the LAMP end and the section leading to power plug plugs into the POWER end.

ZigBee Network 14

The Dimmer follows typical ZigBee networking behavior.

Network functions are controlled by tapping in the top half and the bottom half of the dimmer surface.

With each tap, an adjoining light level LED will flash to provide feedback. Taps should be regular sequences of about 2 -3 taps per second.

Networking

Join:	4 top
Leave:	13 top 4 bottom 13 top
Reboot:	15 top 4 bottom 15 top

Disconnecting the Dimmer Cords 17

Disconnecting the lamp cord from the Dimmer must only be by a qualified technician, not the end user.

Always unplug the power cord from the wall outlet before disconnecting the cords from the Dimmer.

Insert the Connector Release Tool (supplied) in the outside ends of the release slots at a depth of at least 4mm.

Next, squeeze the tweezers toward the middle in order to compress the barb clips on the connector plug. You may have to squeeze close to the tips.

Once compressed, press the Release Tool tips down by another 2-3 mm. The Release tool should now stay in place on its own.

Plug In Connector 12

Push the connector plug for the Lamp end evenly and firmly into the switch until the outside flange is flush with the case. Some wires may require a fair bit of pressure - as you press the plug into the switch you should hear a click when each barb catches.



After you have heard the barbs click into place, the outside flange should be flush with the case.

ZigBee Network (Cont'd) 15

Display

Join attempt:	LED flashes
Join fail:	LED flashes
Join success:	LED solid 4 seconds
Leave success:	LED flashes 9 times
Reboot if joined:	LED solid 4 seconds
Reboot if not joined:	LED flashes 9 times

Composer

A wide variety of Dimmer functions can be set-up and customized in Composer.

After downloading the Driver and adding the Dimmer to a project, review the Properties page settings, such as bulb selection, backlighting auto-off, ramping control, etc. Control4 device drivers are available at:

axxind.com/dealers/drivers

Disconnecting the Dimmer Cords (Cont'd)



Pull at the wire to dislodge the plug by about 1mm. The Release Tool won't allow you to extract the plug any further.

Remove the Release Tool, then pull cord and plug all the way out of the Lamp Dimmer body.