Digital Dimmer for LED/Compact Fluorescent/Incandescent
Single Pole (One Location) or 3-Way (Two locations)
LED/CFL 150W, Incandescent 600W, 120VAC, 60HZ
Model Number: USP-DS03
USER MANUAL

BESTTEN®
Power for Today, Ideas for Tomorrow

WARNINGS AND CAUTIONS

1. Use with compatible dimmable LED, CFL bulbs, Incandescent or 120V halogen fixtures only. To avoid overheating and possible damage to this device and other equipment, DO NOT install to control a receptacle, a motor-operated or a transformer-supplied appliance, or any other lighting sources than those specified.
2. To be installed and/or used in accordance with appropriate electrical codes and regulations.
3. Use only One dimmer in a 3-way circuit.
4. When multiple bulbs are used with one dimmer, do not mix bulb types. All bulbs should be either LED, CFL or incandescent. Using the same make/model of each bulb will enhance dimmer performance.
5. Use this device with copper or copper clad wire only.
6. Clean dimmer with a soft damp cloth only. Do not use any chemical cleaners.
7. If you are unsure about any part of these instructions, consult an electrician.

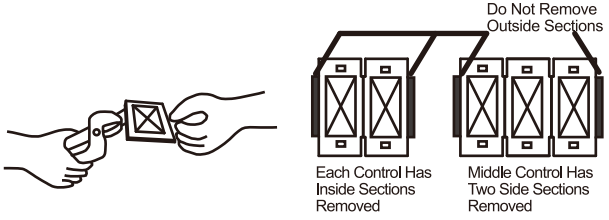
SPECIFICATIONS

Voltage	120V, 60Hz
Dimmable LED/CFL	Max. 150W
Incandescent/Halogen	Max. 600W
Switch Type	Single Pole/3-Way
Operation Temperature	32°F (0°C)---104°F (40°C)
Certifications	UL/cUL Listed

INSTALLATION

Multi-Gang Installations:
When installing more than one control in the same wall box, it may be necessary to remove all the inner side sections prior to wiring. Using pliers, bend each needed side section up and down until it breaks off.

Dimmer Capacity:
600W unmodified
500W if one side is removed
400W if both sides are removed

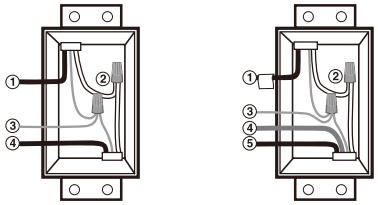


STEP 1 Turn OFF Power :



STEP 2 Identify Your Wiring Application (most common):

NOTE: If the wiring in the wall box does not resemble any of these configurations, consult an electrician.



Single-Pole
1. Line (Hot)
2. Neutral
3. Ground
4. Load

3-Way
1. Line or Load Common
(See important instructions below)
2. Neutral
3. Ground
4. First Traveler
5. Second Traveler

IMPORTANT FOR 3-WAY APPLICATIONS

REPLACE ONLY ONE 3-WAY SWITCH AT A TIME, test after each installation.

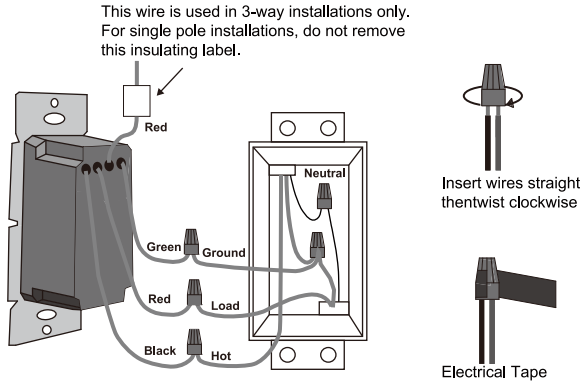
Take a picture of the wires before disconnecting the old switch.

Please note that for 3-way applications, on the existing switches, there are 3 terminals apart from the grounding terminal. One of the terminals on each switch will be a different color than the other 2. This terminal will be connected to the line or load wire and this wire can be marked Line / Load. The other 2 termimals are connected to the traveler wires.

STEP 3 Prepare Wires:

- Pull off the pre-cut insulation from the Dimmer wires.
- Make sure that the ends of the wires from the wall box are **straight (cut if necessary).**

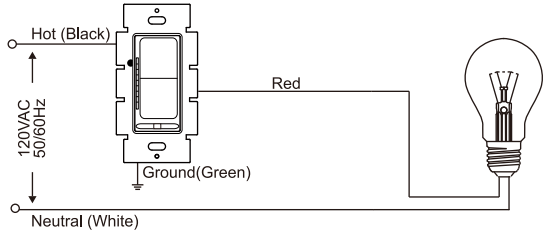
STEP 4A Single Pole Wiring Application:



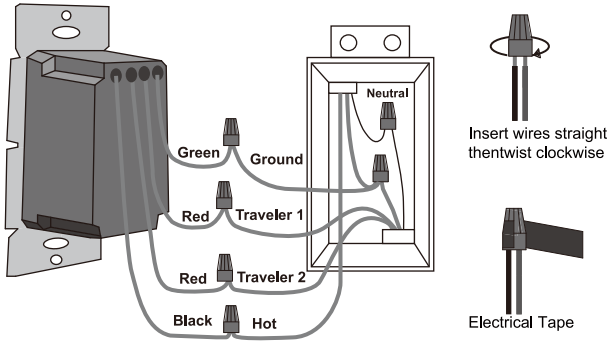
Connect wires as follows:

Screw wire nuts on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape

1. Green dimmer wire connects to Ground or bare copper wire.
2. Black dimmer wire connects to Line Hot wire.
3. Red dimmer wire without insulating label connects to Load wire.
4. Remaining red dimmer wire should have an insulating label affixed. DO NOT REMOVE it in a single pole application.



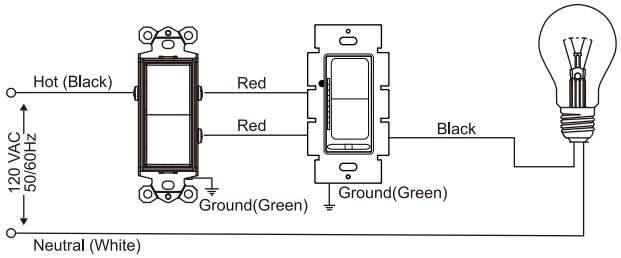
STEP 4B 3 Way Wiring Application:



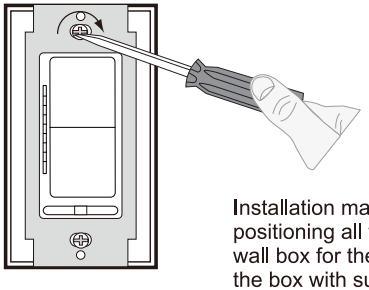
Connect wires as follows:

Screw wire nuts on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape

1. Green dimmer wire connects to Ground or bare copper wire.
2. Black dimmer wire connects to Line Hot or Load (Common) wire.
3. Two Red dimmer wires connects to the two travelers.

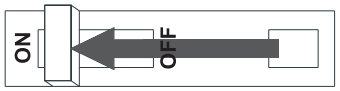


STEP 5 Dimmer Mounting:

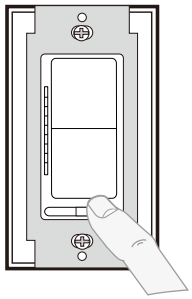


Installation may now be completed by carefully positioning all the wires to provide room in the wall box for the dimmer. Mount the dimmer into the box with supplied mounting screws.

STEP 6 Turn ON Power:



STEP 7 Test Dimmer:



NOTE: If using the dimmer in a 3-way application, the lights will turn ON at brightness set on the dimmer's slide control lever. The lights can be controlled from either the dimmer or the switch location.

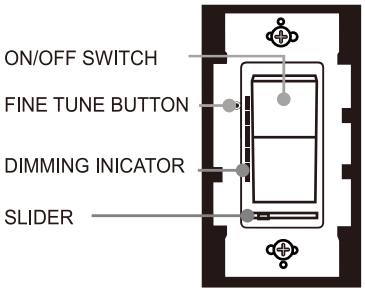
ON/OFF:
Depress button switch to ON position
- Lights will turn ON
Depress button switch to OFF postion
- Lights will turn OFF

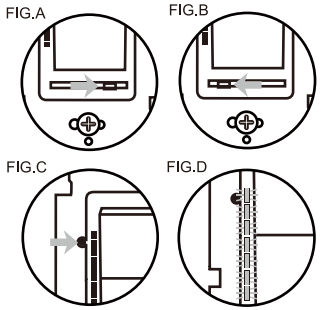
BRIGHTEN & DIM:
Move the slider control lever
- Lights will BRIGHTEN or DIM

STEP 8 Adjust Dimming Range (optional):

Adjust dimming range as follow steps:

1 Turn on the dimmer and move the slider all the way to the rightmost for full brightness. See Fig.A.
2 Slowly move the silder to the left until the preferred lowest light level is achieved and the light output is stable for all bulbs. Leave the slider there (Fig.B).
3 Press and hold the fine tune button (Fig.C) until the dimming indicator blinks 3 times (Fig.D).
4 Move the slider all the way to the leftmost position. The light will be dimmed to the preferred lowest light level set in the above step 2.





TROUBLESHOOTING

Symptom:
- Bulbs turn off while being dimmed.
- Bulbs turn on at high light level but do not turn on at a low light level, or take too long to turn on at low end.
- Bulbs flicker or flash when dimmed do a low light level.
- Bulbs or dimmers are buzzing.

Solution:
1. Verify all bulbs are marked dimmable.
2. Move the slider to the leftmost.
3. Slowly move the slider to the right until symptom is no longer present.
4. Press and hold the fine tune button until the dimming indicator blinks 3 times.

WARRANTY

BESTTEN warrants to the original customer that this product is free of defects in materials and workmanship for one year from the purchase date. Within this period, simply contact BESTTEN CARE with proof of purchase and reason of claim. We will replace the product for free.

Any product which is subject to misuse or accidental damage is excluded from this warranty.

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