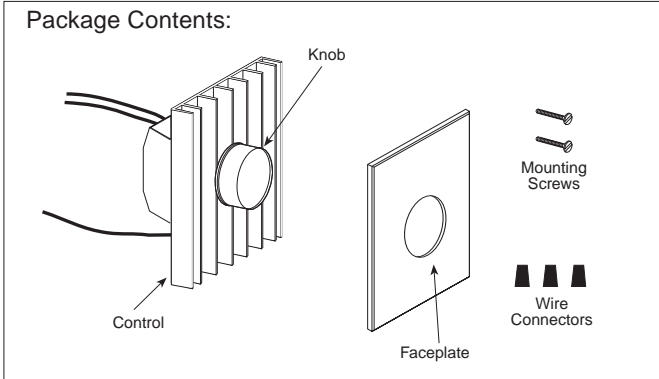


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Package Contents:



Important Notes

Please Read Before Installation

Install in accordance with national and local electrical codes.

Lamp Type: Use this product with incandescent and quartz lamps *only*--120VAC, 60Hz. Do *not* connect to low-voltage lamps or any appliance.

Caution: To avoid overheating and possible damage to other equipment, do not install to control receptacles, fluorescent lighting fixtures, motor-operated appliances, or transformer supplied appliances.

Short Circuit Check: Check new installation for short circuits prior to installation of dimmer by using a single pole switch and connecting the appropriate terminals to the hot wire and the lamp with power OFF. Turn power on. If lights do not work, or breaker trips, a short is present. Correct the wiring and check circuit again. Install dimmer only when short is no longer present.

Wire Connectors: Wire connectors provided can be used to join one 10-, 12-, 14-, 16-, or 18-gauge wire with one or two 12- or 14-gauge wires. Use them with copper wire *only*.

Switchbox and Location: A single-gang switchbox (3" high x 2" wide x 2 1/2" deep) will service all individual Centurion dimmers. These dimmers are designed to operate in ambient temperatures from 0°C to 40°C (32°F to 104°F). Allow a minimum space of 4 1/2" above and below the dimmers for proper heat dissipation.

Single Unit Installation

1. Turn power OFF at fusebox or circuit breaker. Wiring with power on can result in personal injury. Damage to product caused by wiring with power on voids warranty.
2. Remove faceplate from dimmer to prevent damage and to access mounting holes. Pull out at top and bottom edges, plate will snap off.
3. Strip insulation from dimmer wires and from wires to which dimmer is to be connected as follows:
 - 1/2" for 10, 12, and 14 gauge wire
 - 5/8" for 16 and 18 gauge wire



- Using the wire connectors provided, connect the green or bare ground wire on the dimmer (if present) to the green or bare copper ground wire in the wallbox. **Note:** If a green or bare copper ground wire is not in the wallbox, contact a licensed electrician.
- Connect the 2 dimmer leads to the 2 wallbox leads (see Figure A). The hot wire may be connected to either of the dimmer wires. Be sure copper conductor is not exposed.

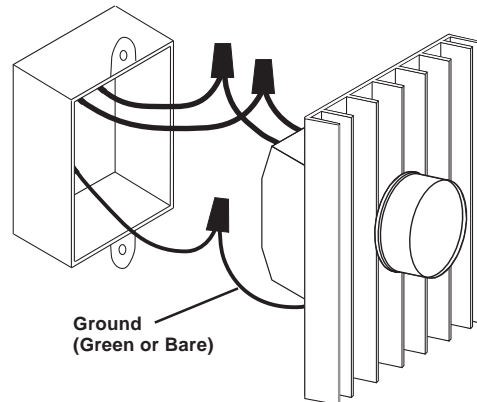
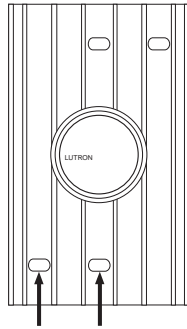


Figure A. Switchbox Wiring

4. Push wires into switchbox, allowing room for dimmer backbox to be inserted.

5. Mount dimmer to switchbox using 2 screws provided and center mounting holes. Unit *must* be mounted vertically. See Figure B.



Offset Mounting Holes Center Mounting Holes

Figure B. Front View - Single Unit Installation

6. Check knob for correct positioning. Lutron inscription on knob indicates light level. When dimmer is off, knob is positioned as shown in Figure B. If not, remove knob from the stem, align in the correct position, and push securely back on.

7. Snap faceplate on. See Figure C.

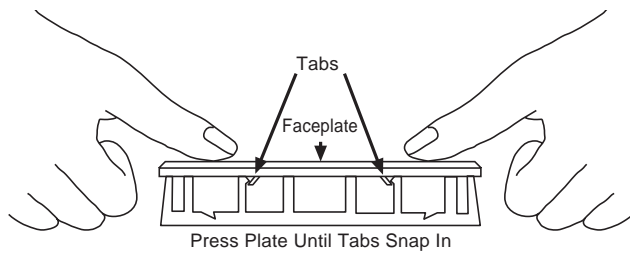


Figure C. Snap on Faceplate

8. Turn power ON. Turn knob clockwise to increase light intensity; counterclockwise to decrease light intensity and click off.

**Multigang Installation-
No Side Sections Removed (No Derating Required)**

In multigang installations several dimmers or controls are grouped horizontally in one ganging switchbox or in a series of connected switchboxes. Installation of dimmers without removing side sections allows operation at full capacity (no derating). Follow instructions below. For retrofit installations side sections can be removed to fit existing switchboxes. This requires derating and is described in "Multigang Installation - Side Sections Removed" on page 3.

1. Determine the number of switchboxes necessary by using the Switchbox Requirement Chart (Table A). When ganging any combination of small dimmers (C-600, C-1000) and large dimmers (C-1500, C-2000), keep all small together at one end of the gang and all large dimmers together at the other end of the gang.

**Table A. Switchbox Requirement Chart
No Side Sections Removed**

	Number of Small Controls						
	0	1	2	3	4	5	6
	Number of Switchboxes Required						
Number of Large Controls	0	1	1+1*	4	4+1*	7	1+7*
1	1	3	5	6	8	9	11
2	4	6	7	9	10	12	13
3	6	8	10	11	13	14	16
4	9	11	12	14	15	17	18

*See item #2

2. When ganging an even number of small controls use gangable switchboxes with tapped ears. Do not use plaster rings or gangbox covers. One switchbox in addition to the total number of controls is required in order to provide space for faceplates (e.g. 4 dimmers require 5 switchboxes). Place additional switchboxes $\frac{3}{4}$ " apart from other switchbox to provide space for faceplate(s). See Figure D.

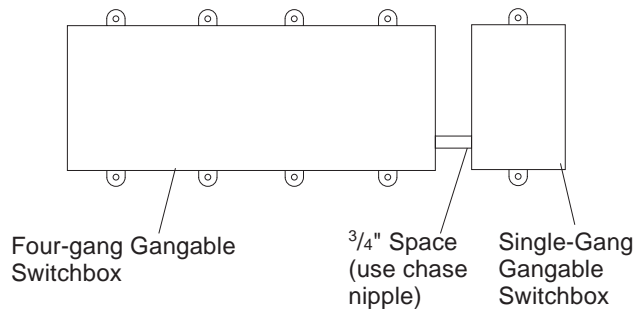
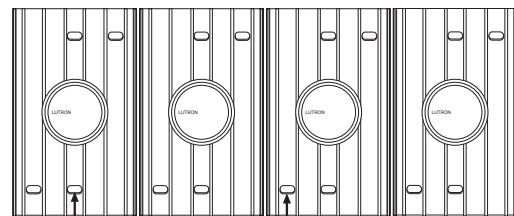


Figure D. Switchbox Positioning Four-Gang Controls

3. Turn power OFF. Wire each dimmer according to step 3 in "Single Unit Installation" on page 1.

4. Install controls in switchbox. Use center mounting holes for first unit, then use offset mounting holes as required for proper alignment (see Figure E). Allow $\frac{1}{32}$ " between controls for ease in attaching faceplates.



Center Mounting Holes Offset Mounting Holes

Figure E. Front View - Four-Gang Installation

5. Snap multiple single faceplates onto controls and adjust up or down for a snug fit. See Figure F.

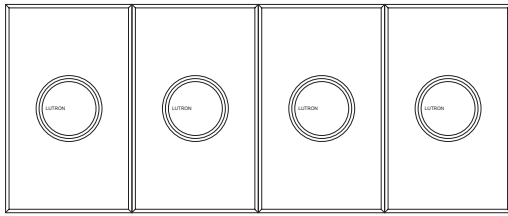


Figure F. Front View - Four-Gang Installation

**Multigang Installation--
Side Sections Removed (Derating Required)**

In multigang installations several dimmers or controls are grouped horizontally in one ganging switchbox or in a series of connected switchboxes.

1. Derating is necessary when side sections are removed. Use Derating Chart (Table B) to determine maximum wattage of lamps safely dimmed when side sections are removed. Match the dimmer model number and the number of side sections removed to determine the maximum load that can be controlled.

Table B. Derating Chart - Maximum Wattage

Model	Control Size	No Sides Removed	1 Side Removed	2 Sides Removed
C-600	S	600W	600W	500W
C-1000	S	1000W	900W	700W
C-1500	L	1500W	1250W	1000W
C-2000	L	2000W	1800W	1500W

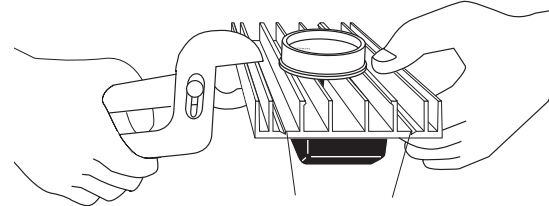
2. Determine the number of switchboxes necessary by using the Switchbox Requirement Chart (Table C). When ganging any combination of small controls (C-600, C-1000) and large dimmers (C-1500, C-2000), place all small controls together at one end of the gang and all large controls at the other end of the gang.

**Table C. Switchbox Requirement Chart
Side Sections Removed**

	Number of Small Controls							
	0	1	2	3	4	5	6	
Number of Large Controls	Number of Switchboxes Required							
	0	0	1	2	3	4	5	6
	1	1	3	4	5	6	7	8
	2	3	5	6	7	8	9	10
	3	5	7	8	9	10	11	12
4	7	9	10	11	12	13	14	

3. Remove only inner side sections. Using pliers, bend side sections as far as you can and then back to their original positions. Repeat several times until side sections break off (See Figure F).

Note: Do not remove outer side sections of the two dimmers which are on the ends of the gang.



Side section break-off points

Figure G. Side Section Removal

4. Turn power OFF. Wire each dimmer according to step 3 in "Single Unit Installation" on page 1.

5. Install controls in switchbox(es). Use center mounting holes. (With large controls, you can use offset mounting holes as required for proper alignment). Allow 1/32" between controls for ease in attaching faceplates.

6. Remove appropriate sides of faceplates to match the side sections removed from the controls (see Faceplate Cutting). Then snap multiple single faceplates onto controls and adjust up or down for a snug fit.

Faceplate Cutting

Some faceplates will need to be cut if removing side sections of dimmers. Position faceplate on a soft cloth face down. Press firmly and score the groove on the back of faceplate with a razor-sharp knife, using vertical side groove to keep knife on straight course (see Figure G). Bend section back and forth to break it off. Smooth edges by placing fine-grained sandpaper on a flat surface and rub edge of the faceplate over the sandpaper a few times. Hold faceplate steady as you rub to keep a true edge.

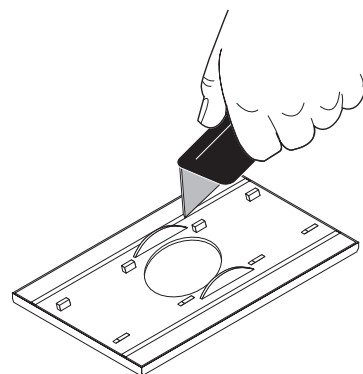


Figure G. Cutting Faceplate

Worldwide Technical and Sales Assistance

If you have questions concerning the installation or operation of this product, call the ***Lutron Technical Assistance Hotline***. Please provide exact model number when calling.

(800) 523-9466 (U.S.A., Canada, and the Caribbean)

Other countries call (610) 282-3800

Fax (610) 282-3090

Warranty

Lutron will, at its option, repair or replace any control that is defective in materials or manufacture within one year after the purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Road, Coopersburg, PA 18036-1299, postage prepaid.

This warranty is in lieu of all other warranties, express or implied, and the implied warranty of merchantability is limited to one year from purchase. This warranty does not cover the cost of installation, removal, or reinstallation, or damage resulting from misuse, abuse, or improper wiring or installation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty may last, so the above limitations and exclusions may not apply to you.

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