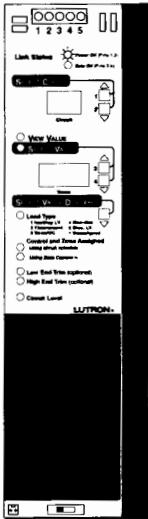


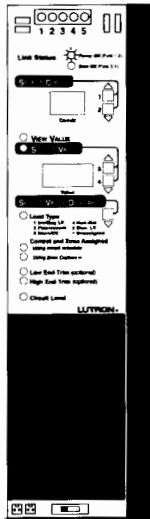
RK-CS

Replacement Kit Instructions for
These Circuit Selectors:

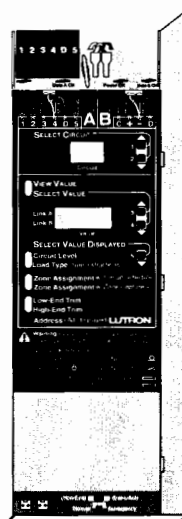
**24-Circuit
Original Circuit
Selector**



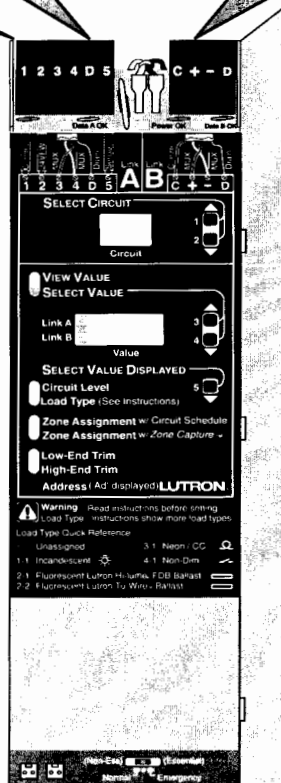
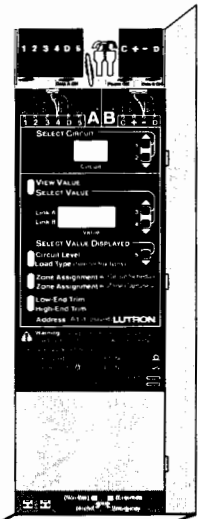
**48-Circuit Original
Circuit Selector
(2nd Dimmer Link Present)**



**Circuit Selector II
Single Link**



**Circuit Selector II
with 2Link™
(Link B Present)**



Overview

Lighting Control Panels with Circuit Selectors

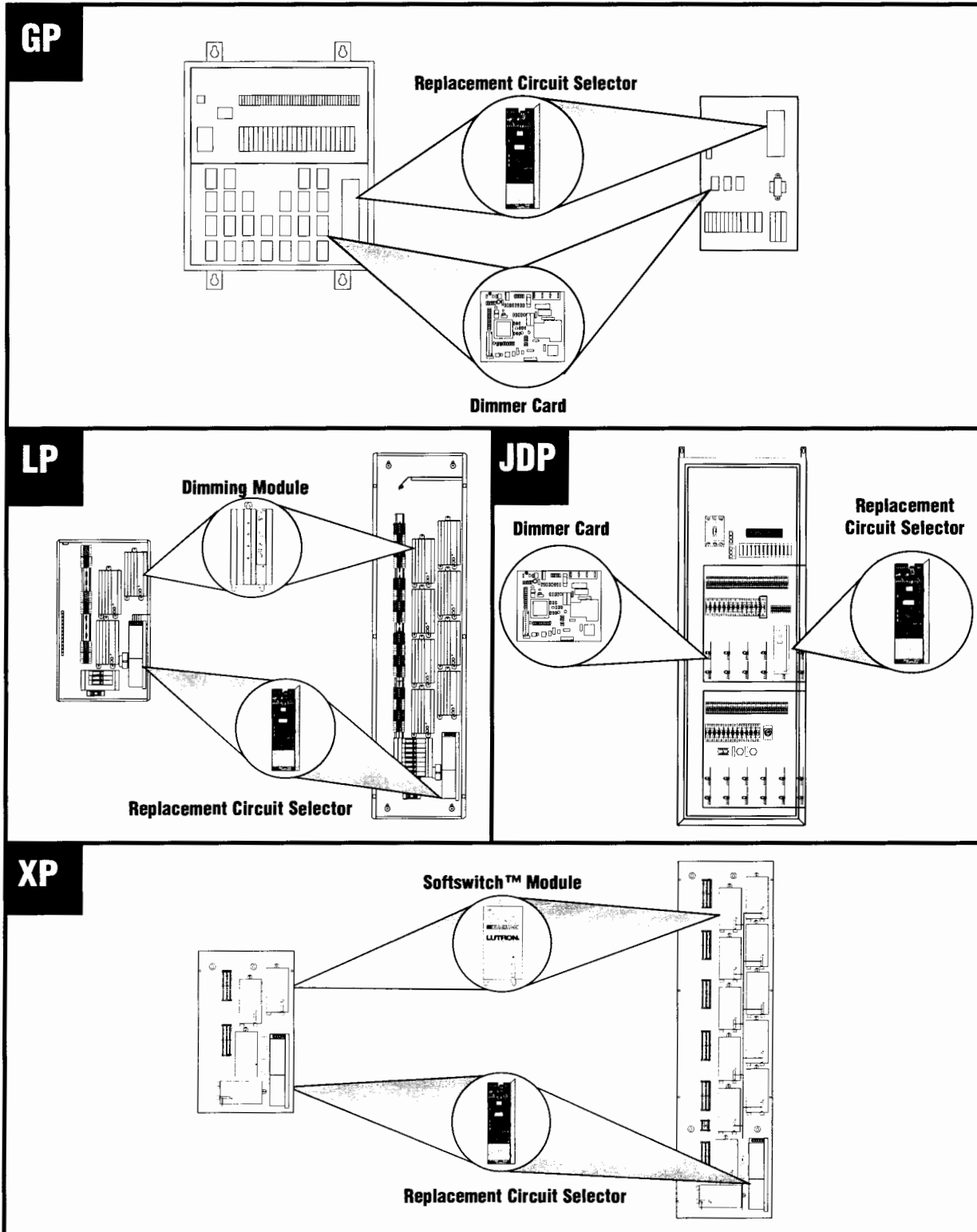


Table of Contents



Step-by-Step Instructions

	<u>Page</u>
STEP 1: Confirm Status of Existing Circuit Selector	4
STEP 2: Record Present Data	5-8
STEP 3: Remove Wiring from Existing Circuit Selector	9-10
STEP 4: Remove Existing Circuit Selector	11-12
STEP 5: Mount Replacement Circuit Selector.....	13
STEP 6: Rewire Replacement Circuit Selector.....	14
STEP 7: Activate Replacement Circuit Selector.....	15
STEP 8: Change Baud Rate.....	16
STEP 9: Re-enter Settings	17
STEP 10: Change Circuit Range (optional)	18
STEP 11: Change Circuit Offset (optional).....	19



Reference Section

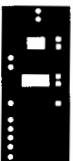
	<u>Page</u>
Circuit Directory	20
Optional Functions.....	21
Troubleshooting Guide	22



Special Notes



Text following this icon indicates instructions for an Original Circuit Selector (24 or 48-circuit).



Text following this icon indicates instructions for a Circuit Selector II (Single or *2Link*).



Confirm Status of Existing Circuit Selector

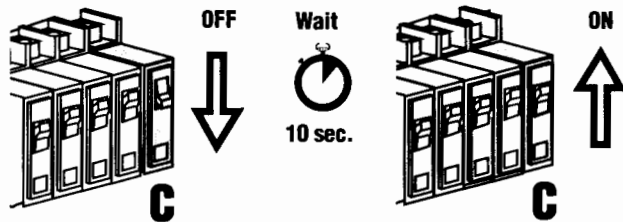
It may be possible to retrieve settings from the existing Circuit Selector and reenter them into the Replacement Circuit Selector. To determine this, proceed with the following steps.



- If you are performing an **upgrade** and the existing Circuit Selector is working properly, skip Step 1 and proceed to Step 2.
- If one of the following products are used, it may be possible to **download** the setup data to the Replacement Circuit Selector: *Liaison™*, *Grafik 5000™*, *Grafik 6000®*, or *HomeWorks Interactive™*. Call Lutron for details.

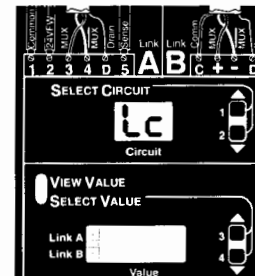
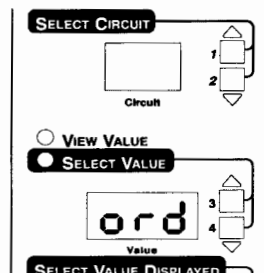
STEP 1: Confirm Status of Existing Circuit Selector

- A.** Cycle power to ensure consistency with the following steps.
1. Turn control breaker 'C' **OFF**.
 2. Wait 10 seconds.
 3. Turn control breaker 'C' back **ON**.



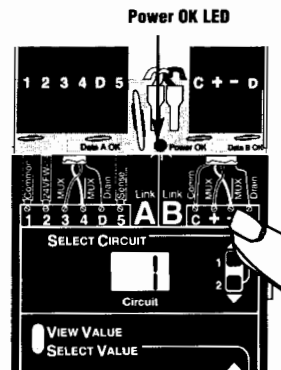
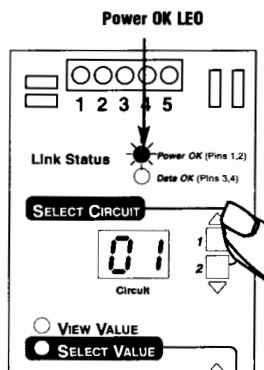
Warning! For GP3, GP4 (breakers provided by customer), or LP Panel, the input breaker of Circuit 1 powers the control wiring as well as Circuit 1's dimmer and load.

4. If the displays read “ord” or “Lc,” the unit may be working properly. Please call the Lutron Technical Assistance Hotline at **1-800-523-9466**.



- B.** Activate Circuit display to check status.

1. Press and release button 1.
 - If the **Circuit** display reads “1”, proceed to **Step 2**.
 - If the displays are **empty** and the **Power OK** LED is ON, the data cannot be retrieved. Proceed to **Step 3**.





Record Present Data

STEP 2: Record Present Data

- Use the **Circuit Directory** in the Reference Section while following the steps below to record the present data.

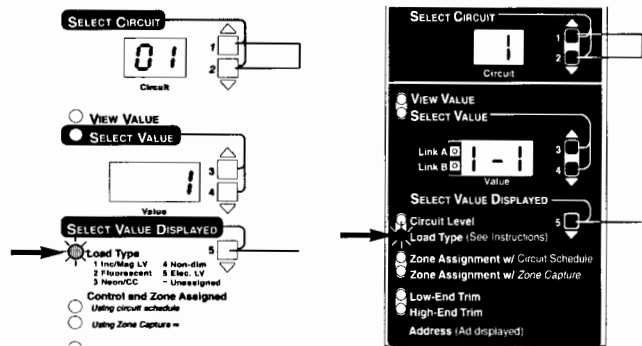


The **Link A or B Hierarchy and Zone X** columns are necessary only if the Circuit Selector you are replacing uses the *2Link* option. **To find instructions on how to view this information, refer to the *2Link Options* section of the GP Installation Guide included with this kit.**

A. View and record load types.

1. Press button 5 repeatedly until the **Load Type** LED lights.
 - Use buttons 1 and 2 to view the present Load Type of each circuit in the **Value** display and record the data in the Circuit Directory.
 - Note that ' - ' or ' - - - ' in the **Value** display means that the circuit's load type is unassigned.

Example below: Circuit "1" has a load type of 1 (Circuit Selector II has a load type equivalent of 1-1. See conversion chart on page 6.)



Circuit Directory (See Reference Section)

Circuit ¹	Load Type ²	Low End Trim	High End Trim
1	1		
2			
3			
4			

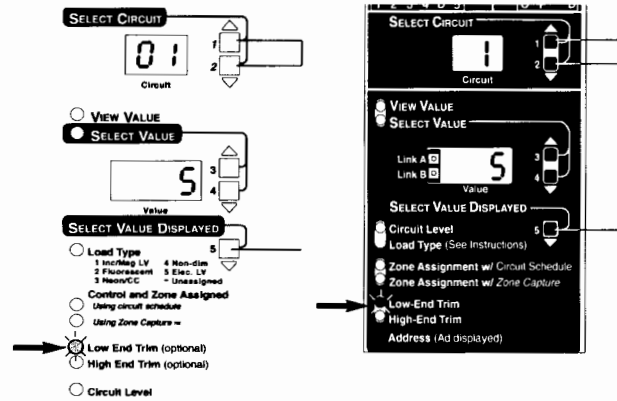


Record Present Data

STEP 2: Record Present Data (cont'd)

B. View and record low end and high end trim.

1. Press button 5 repeatedly until the **Low End / High End Trim** LED lights.
 - Use buttons 1 and 2 to view present settings for one or both of these options in the **Value** display and record the data into the Circuit Directory.
 - Low end/high end trim have default settings for each load type. If the settings were not changed and match the defaults, it is unnecessary to record them into the Circuit Directory.
 - Use this chart to compare values and to **translate** load type settings (Original Circuit Selector to Replacement Circuit Selector II settings are different).



Load Type		Default Settings	
		Low End Trim	High End Trim
1 Incandescent	1-1 Incandescent	5	90
2 Fluorescent	2-1 FDB	28	81
Not Available	2-2 Tu-Wire®	27	95
	2-3 0-10 w/ TVM	10	90
	2-4 PWM w/ TVM	10	90
	2-5 Tridonic® DSI w/ TVM	10	90
	2-7 DALI ¹ w/ TVM	10	90
3 Neon	3-1 Neon	24	68
Not Available	4-1 Non-Dim >0 On	1	99
8 Non-Dim Slider	4-2 Non-Dim Slider	1	99
4 Non-Dim	4-3 Last On, First Off	1	99
6 Screen Non-Dim	4-4 First On, First Off	1	99
5 Elect. LV	5-1 Elect. LV	5	90
Included w/ Incandescent	6-1 Magnetic LV	5	90
7 Fan	7-1 Fan		

Custom Code*

¹ Intensity broadcast only

* Please call Lutron Technical Assistance Hotline at 1-800-523-9466.

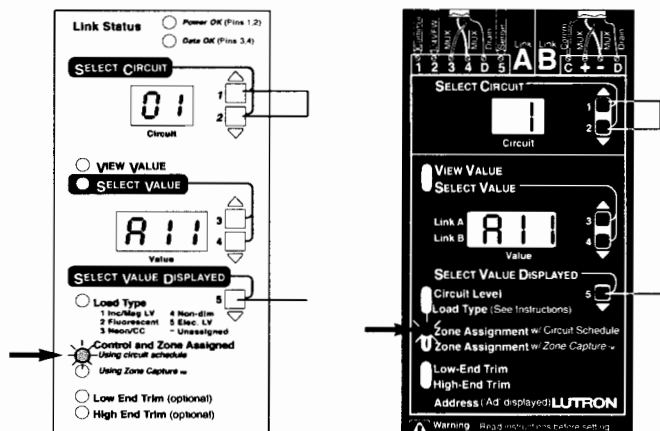


Record Present Data

STEP 2: Record Present Data (cont'd)

C. View and record zone assignments.

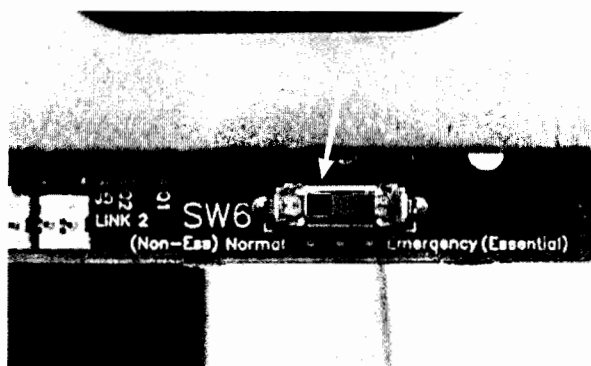
1. Press button 5 repeatedly until the **Zone Assignment w/ Circuit Schedule** LED lights.
 - Use buttons 1 and 2 to view the present zone assignments in the **Value** display and record the data into the Circuit Directory under the appropriate column.



D. Record normal /emergency switch 6 (SW6) position.

- View the position of SW6 (located at the base of each Circuit Selector) and record its setting in the space provided at the bottom of the Circuit Directory.

Example: The unit's setting in this drawing is in the **left** position. See the *Set Up System* section of the GP Installation Guide included with this kit for details about this switch setting.

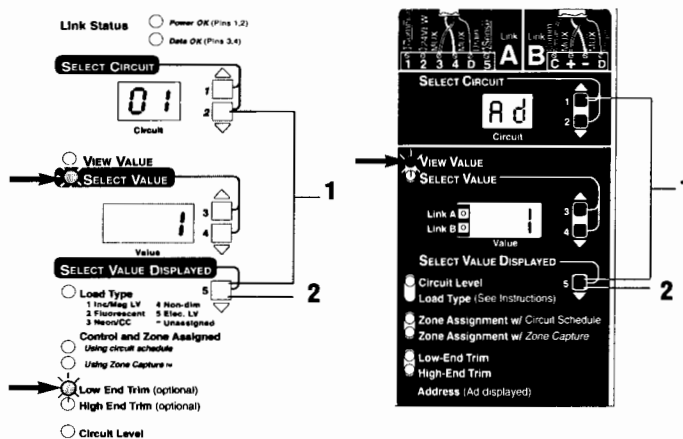


E. View and record the address assigned to the Circuit Selector.

1. Press and hold buttons 2 and 5 until the **Select Value** LED flashes once per second (must hold for about 9 seconds).
2. Press button 5 until the **Low End Trim** LED lights. The address number (1-511 range) will appear in the **Value** display.

To **exit**, press and hold buttons 1 and 5 on the Circuit Selector until the **View Value** LED lights.

- Press button 5 until "Ad" is displayed in the **Circuit** display. The address number (1-512 range) will appear in the **Value** display.





Record Present Data

The **PLL** (Phase Lock Loop) is a software setting that helps prevent the lights from flickering. If the existing dimmers/modules do not have *RTISS™*, the PLL setting on the Replacement Circuit Selector must be made to match the PLL setting of the existing Circuit Selector.



If this is a GP Panel that was shipped after July 2000, or all dimmers are being upgraded, this portion of Step 2 is unnecessary. These newer dimmers/modules have been equipped with the Real Time Illumination Stability System (*RTISS™*).

STEP 2: Record Present Data (cont'd)

F. View and record the PLL setting.

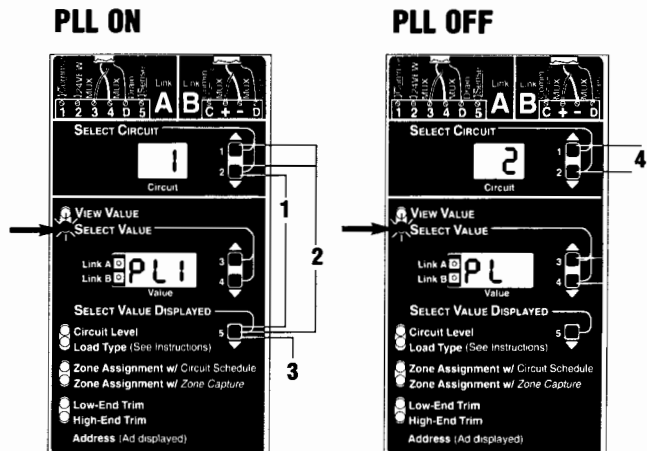
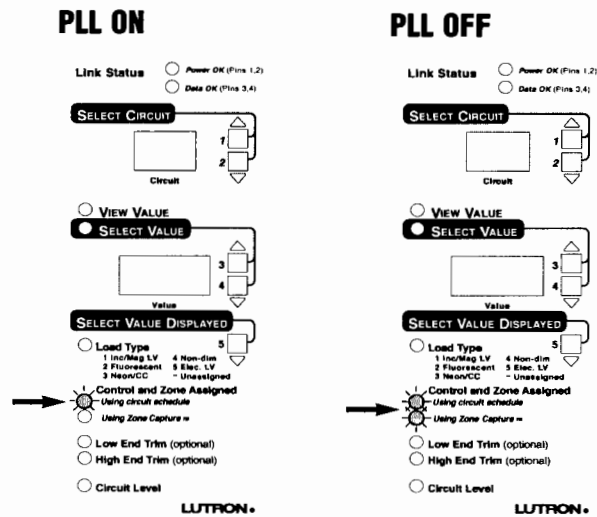
- Turn the system power **OFF**, then back **ON**.
 - If only the **first** zone assignment LED is **ON**, the PLL setting is **ON**.
 - If **both** zone assignment LEDs are **ON**, the PLL setting is **OFF**.

Record this setting in the space provided at the bottom of the Circuit Directory.

- Press and hold buttons 2 and 5 until the **Select Value** LED flashes in intervals of two.
- Press and hold buttons 1, 2, and 5 (for about 9 seconds) until the **Select Value** LED flashes in intervals of three.
- Press button 5 repeatedly until "**PL**" appears in the **Value** display with either the number 1, 2, or 3 (PLL ON) or blank space (PLL OFF) next to it. Record this value in the PLL column of the Circuit Directory.
- Use buttons 1 and 2 to view and record the PLL setting for each circuit.

Note: Circuit Selector II may have multiple PLL settings, so it is necessary to record the value for each circuit.

- To **exit**, press and hold buttons 1 and 5 until the **View Value** LED lights.





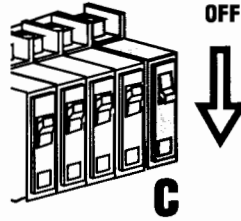
Remove Wiring from Existing Circuit Selector

STEP 3: Remove Wiring from Existing Circuit Selector

A. Turn control breaker 'C' **OFF**.



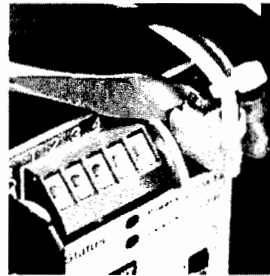
Warning! For GP3, GP4 (breakers provided by customer), or LP Panel, the input breaker of Circuit 1 powers the control wiring as well as Circuit 1's dimmer and load.



B. Remove wiring from the existing Circuit Selector.

- 1. Carefully** unplug the Class 2/PELV 24VAC Lutron Wiring with a screwdriver.

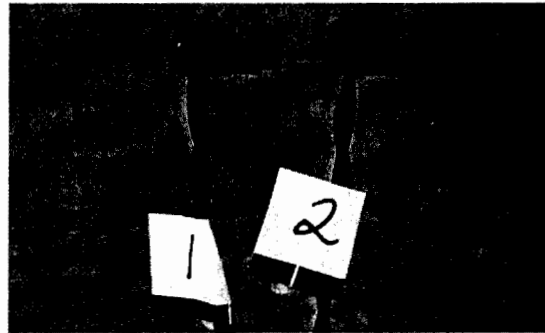
Original Circuit Selector



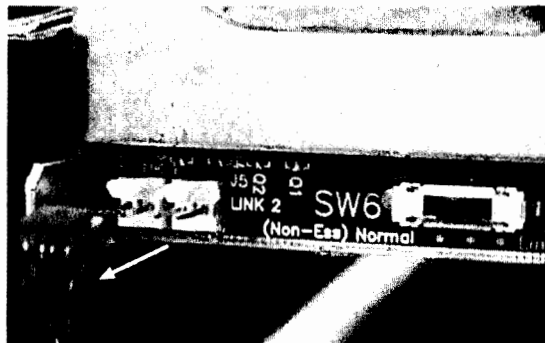
Circuit Selector II



Caution! If the Circuit Selector has two (2) dimmer links, it is necessary to tag each link to ensure that they are reattached to the same outlets at the bottom of the Replacement Circuit Selector.



- 2.** Remove dimmer link(s) from the bottom of the Circuit Selector.

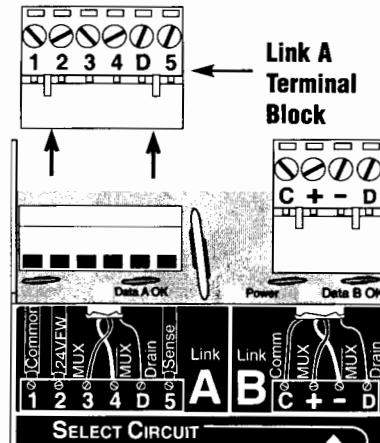




Remove Wiring from Existing Circuit Selector

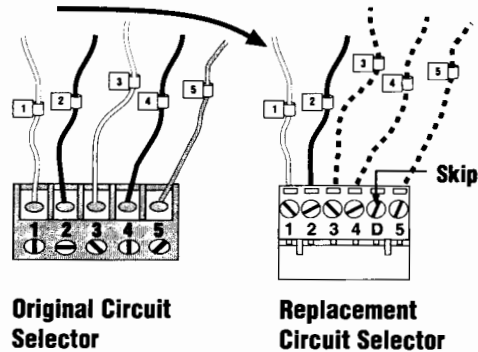
STEP 3: Remove Wiring from Existing Circuit Selector (cont'd)

- Unplug the Link A Terminal Block from the Replacement Circuit Selector.



- Move one Control Link wire at a time and insert each into the corresponding openings of the Link A Terminal Block of the Replacement Circuit Selector. Make sure to tighten each terminal's screw

Unplug the existing Circuit Selector II's Terminal Block(s). They will be reattached after the Replacement Circuit Selector is mounted.





Remove Existing Circuit Selector: Original Circuit Selector

STEP 4: Remove Existing Circuit Selector: Original Circuit Selector

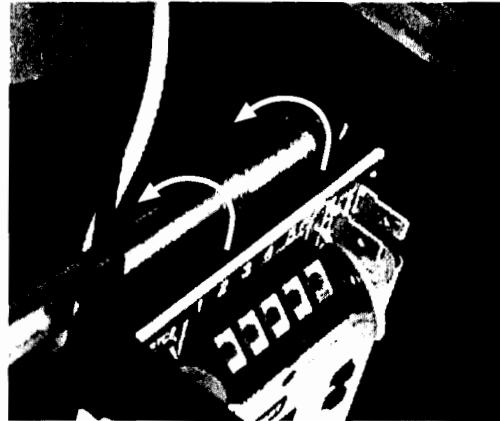


**For replacing an Original Circuit Selector:
(See next page for Circuit Selector II)**

- A.** Loosen and remove the two nuts and star washers from behind the Circuit Selector by turning each counterclockwise using a $1\frac{1}{32}$ " (9 mm) nut driver. Save these fasteners to use when mounting the Replacement Circuit Selector.



Caution! When removing these nuts and star washers, do not allow them to fall into the panel. Contact with exposed wiring may cause damage.



- B.** Remove the Circuit Selector by pulling the unit away from the side of the panel.





Remove Existing Circuit Selector: Circuit Selector II

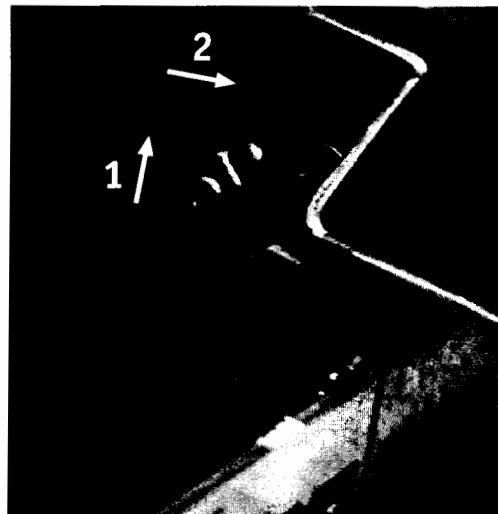
STEP 4: Remove Existing Circuit Selector: Circuit Selector II

For replacing a Circuit Selector II: (See previous page for Original Circuit Selector)

- A.** Loosen (but do not remove) the two nuts behind the Circuit Selector II by turning each counterclockwise using a 11/32" (9 mm) nut driver.



- B.** To remove the Circuit Selector II:
1. Lift up,
 2. Pull towards the front of the panel.





Mount Replacement Circuit Selector

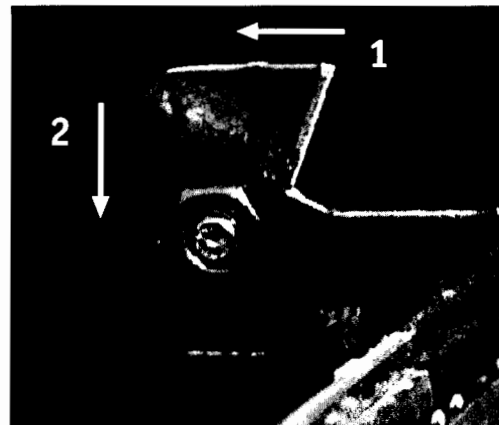
STEP 5: Mount Replacement Circuit Selector

A. If the star washers and nuts were removed in Step 4, replace them, but do not tighten completely.



B. Mount Replacement Circuit Selector:

1. Slide the Replacement Circuit Selector over the screw/stud
2. Pull down.



2. Firmly tighten both nuts and star washers.

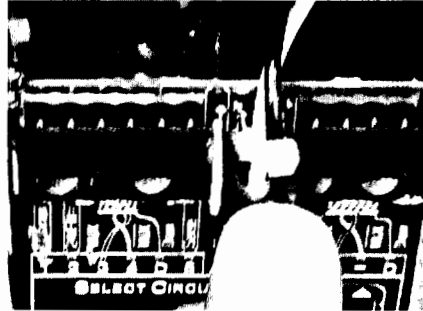




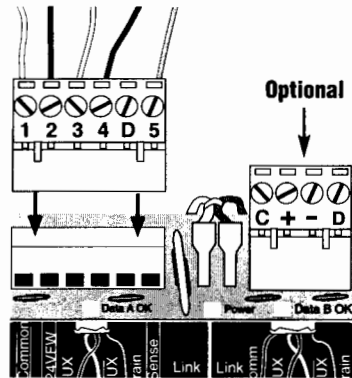
Rewire Replacement Circuit Selector

STEP 6: Rewire Replacement Circuit Selector

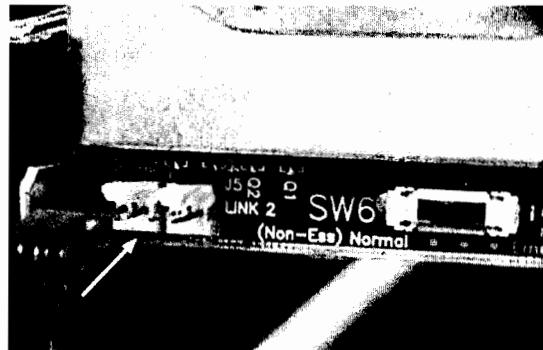
A. Plug Class 2/PELV 24VAC Lutron Wiring into the Replacement Circuit Selector.



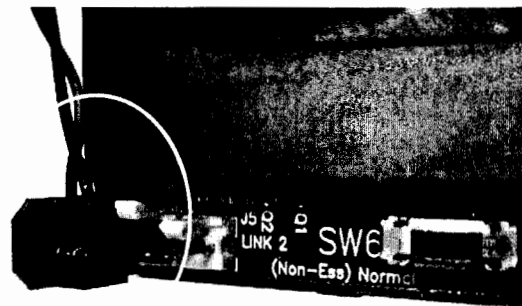
B. Plug Terminal Block(s) into the Replacement Circuit Selector.



C. Plug in dimmer link(s) to the corresponding outlet(s) at the bottom of the Replacement Circuit Selector.



Caution! When replacing an **Original Circuit Selector for an XP Panel**, it is necessary to put the dimmer link(s) in **upside down** (wires should run towards the top of the Circuit Selector instead of towards the bottom).



XP Panel Only!



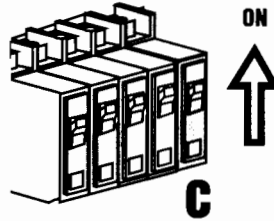
Activate Replacement Circuit Selector

STEP 7: Activate Replacement Circuit Selector

A. Turn control breaker 'C' **ON**.

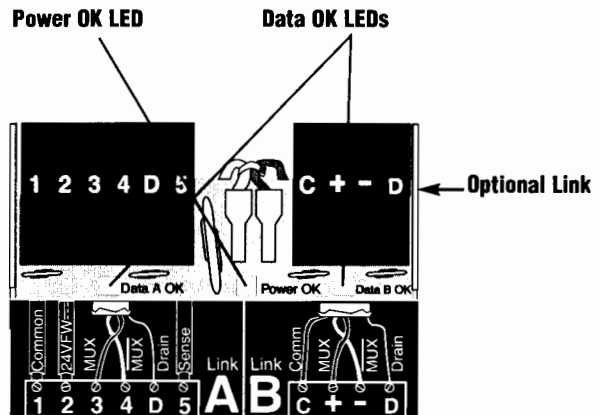


Warning! For GP3, GP4 (breakers provided by customer), or LP Panel, the input breaker of Circuit 1 powers the control wiring as well as Circuit 1's dimmer and load.



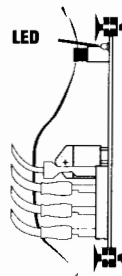
- **Power OK** LED should remain ON, and the **Data OK** LED(s) should flash once per second (as long as that link is active).

Note: If the Power OK LED is **not** ON, turn OFF the control breaker, clear the short between wire #2 and #1 (or ground), then reactivate the panel.

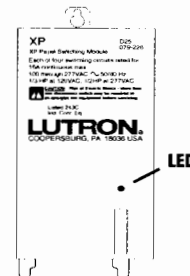


- If the dimmer card/ module diagnostic LEDs are all flashing once per second, skip Step 8 and proceed to Step 9.
- If these LEDs are always ON (GP panels) or in "Light House" (flashing once every 7 seconds for XP, LP panels), proceed with Step 8.

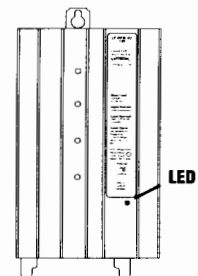
Front View of Dimmer Card in GP(JDP) Panel



Front View of Softswitch™ Module in XP Panel



Front View of Dimming Module in LP Panel



For more information, refer to the Troubleshooting Guidepg. 23



Change Baud Rate

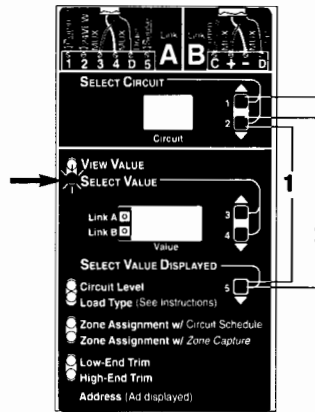
The Replacement Circuit Selector is capable of “talking” to the dimmer/module at various link speeds (**baud rates**). The dimmer/module baud rate must match the slowest “listening” dimmer/module on the link for all circuits to function.



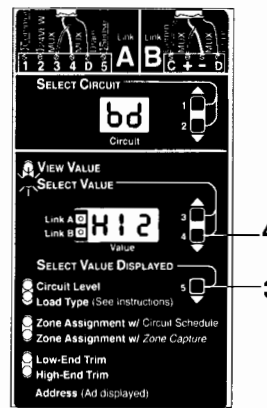
If this is a GP Panel that was shipped after July 2000 or all dimmers are being upgraded, this portion of Step 8 is unnecessary.

STEP 8: Change Baud Rate

1. Press and hold buttons 2 and 5 until the **Select Value** LED flashes in intervals of two.
2. Press and hold buttons 1, 2, and 5 (for about 9 seconds) until the **Select Value** LED flashes in intervals of three.



3. Press button 5 until 'bd' appears in the **Circuit** display. The **Value** display will show the current baud rate.
4. Press button 4 once to lower the baud rate.
5. To **exit**, press and hold buttons 1 and 5 until the **View Value** LED lights.



Note: If the status of the diagnostic LED does not change (as specified in Step 7), repeat Step 8. If this does not work, please call Lutron Technical Assistance Hotline at **1-800-523-9466**.

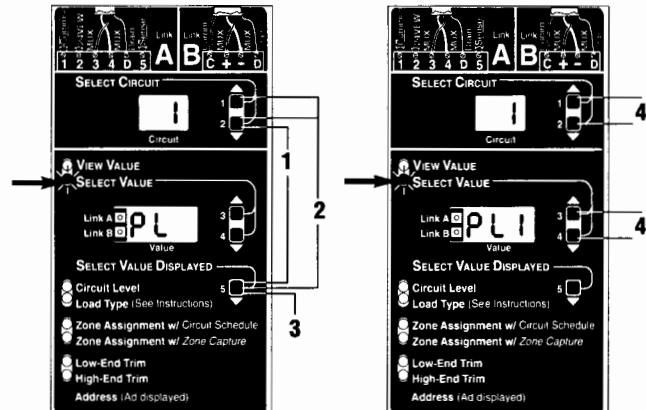


Reenter Settings

STEP 9: Reenter Settings

A. Reenter PLL settings.

1. Press and hold buttons 2 and 5 until the **Select Value** LED flashes in intervals of two.
2. Press and hold buttons 1, 2, and 5 (for about 9 seconds) until the **Select Value** LED flashes in intervals of three.
3. Press button 5 repeatedly until “PL” appears in the **Value** display (PLL OFF).
4. Use buttons 3 and 4 to change the PLL settings for each circuit (use buttons 1 and 2 to move to different circuits).



■ If the PLL setting recorded in the Circuit Directory was ON, it is necessary to reenter the PLL setting as “PL 1” for **each circuit** (if the PLL was OFF, it is unnecessary to change the PLL setting in the Replacement Circuit Selector).

■ Enter the PLL settings as recorded in the Circuit Directory for each circuit (if the PLL setting for each circuit was “PL”, it is unnecessary to change the PLL setting in the Replacement Circuit Selector).

5. To **exit**, press and hold buttons 1 and 5 until the **View Value** LED lights.

To reenter all other settings recorded in the Circuit Directory, please refer to the “Start Up System” section of the GP Installation Guide included with this kit for complete instructions.



Change Circuit Range

The circuit range is factory set from 1 to 24 (as appears in the **Circuit** display of the Circuit Selector). It can be set to accommodate individual panel specifications with settings ranging from 1 to 48 circuits.

STOP If the Replacement Circuit Selector is installed in a panel with 24 or fewer circuits, changing the circuit range is **not** necessary.

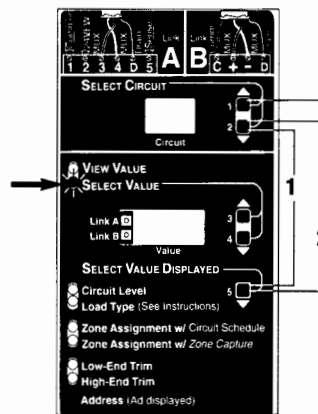
Example: If a panel has 7 modules with 4 circuits each (total of 28 circuits), it is necessary to change the circuit range upper limit to 28.

■ For personal preference, it is possible to change the circuit range to eliminate unused circuits.

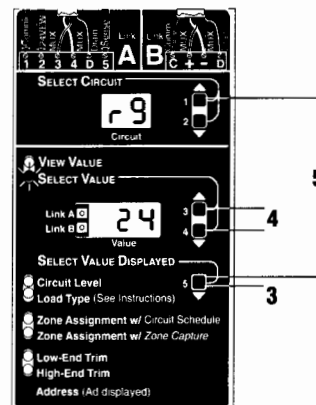
Example: Change the circuit range of a GP 8 to 1-8 and eliminate 9-24 (not used).

STEP 10: Change Circuit Range

1. Press and hold buttons 2 and 5 until the **Select Value** LED flashes in intervals of two.
2. Press and hold buttons 1, 2, and 5 (for about 9 seconds) until the **Select Value** LED flashes in intervals of three.



3. Press button 5 repeatedly until 'rg' appears in the **Circuit** display. The **Value** display will show the current upper limit for the circuit range (factory set at 24).
4. Press button 3 to raise the circuit range upper limit or button 4 to lower the circuit range limit.
5. To **exit**, press and hold buttons 1 and 5 until the **View Value** LED lights.





Change Circuit Offset

The circuit offset is factory set to 0 (as appears in the **Circuit** display of the Circuit Selector). It can be set to offset the 1st circuit by a count of 24 or 48.



The circuit offset is changed generally for GP-36 or GP-72 panels only.

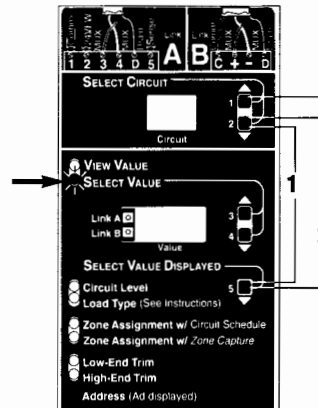
Example: The **Circuit** display would scroll from 25 to 48 (with a circuit range of 24 - see previous page) when the circuit offset is switched from 0 to 24.

- For personal preference, it is possible to change the circuit offset to designate two different panels' circuit numbers as unique.

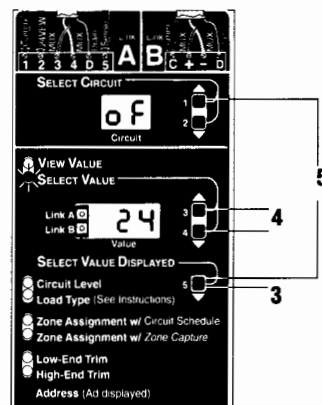
Example: Change the circuit offset of one GP 24 panel to 24 so it displays circuit 25-48, while leaving a previous GP 24 panel's circuit offset unchanged to read 1-24.

STEP 11: Change Circuit Offset

1. Press and hold buttons 2 and 5 until the **Select Value** LED flashes in intervals of two.
2. Press and hold buttons 1, 2, and 5 (for about 9 seconds) until the **Select Value** LED flashes in intervals of three.



3. Press button 5 repeatedly until 'oF' appears in the **Circuit** display. The **Value** display will show the current setting for the circuit offset (factory set at 0).
4. Press button 3 to raise the circuit offset or button 4 to lower the circuit offset.
5. To **exit**, press and hold buttons 1 and 5 until the **View Value** LED lights.





Circuit Directory

Circuit ¹	Load Type ²	Low End Trim	High End Trim	Primary Zone		Secondary Zone (only with 2Link™)		Hierarchy	Zone X (A2 or b2 only)	PLL
				Zone Assignment	Link A or B	Zone Assignment	Link A or B			
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

¹ If replacing a 48-Zone Circuit Selector, make a copy of this chart and re-number the Circuit column 25-48.

² Load Type settings are different for the Original Circuit Selector and the Circuit Selector II. See the chart on page 6 for the updated settings when reentering information.

Switch 6 _____
(LEFT, CENTER, or RIGHT)

Address _____

PLL _____



Other Functions

The following functions have all been set to factory default for standard operation; any changes are **optional**.




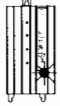


Need more information? Call *Lutron* to find out more about these and other Circuit Selector functions.

Chicago Setting-	Sets a "floor" which the dimmer will not go below. This function is used for emergency circuits in situations where the lights are not allowed to turn off, such as in Chicago.
Override Setting-	Allows circuit(s) connected to an emergency panel to enter an intensity other than full (100%).
Programmed OFF Level-	Allows a dimmer to enter a specific intensity other than zero (0) when a dimmer's intensity command is 0%. ⚠ Warning! Defeating Lutron's "Airgap OFF" feature must be carefully considered for safety reasons.
"SL" Slushing-	Allows for modification of a dimmer's intensity change response time. An intensity change can have a "jump to" response or one of three "smooth out the transition" responses.
"SF" Soft Start-	Allows the standard transition from OFF to ON to be defeated. It is recommended that the default settings for each load type remain unchanged.
"UC" Voltage Compensation-	Allows the standard compensation for voltage changes to be defeated. It is recommended that the default settings for each load type remain unchanged.
"AU" Autodetect-	Allows the protocol of each control link to be autodetected (default) or manually assigned (OFF). This function is changed to OFF primarily if the control has not been installed but needs to be programmed beforehand to autodetect, or if the Circuit Selector has trouble detecting DMX 512 protocol.



Troubleshooting Guide

Troubleshooting Guide

Symptom	 Dimmer Card LED	 LP/ELV Module LED	 XP/XP2 Module LED	RK-CS Diagnostics			 GRX LEDs	Possible Cause/Solutions
				'Power OK' LED	'Data OK' LED	Circuit # Display		
None - Normal operation (as reference)	"Heartbeat" (-1 per sec)	"Heartbeat" (-1 per sec)	"Heartbeat" (-1 per sec)	On	"Heartbeat" (-1 per sec)	OK	OK	All LEDs show OK, see below for other suggestions.
						Out	OK	Push any button on Circuit Selector (display turns off in 20 minutes).
						"LC"	OK	RK-CS locked out - contact Lutron.
All dimmers controlled by 1st zone	"Heartbeat" (-1 per sec)	"Heartbeat" (-1 per sec)	"Heartbeat" (-1 per sec)	On	"Heartbeat" (-1 per sec)	OK	OK	RK-CS not set up - see instructions for Zone Assignment.
All outputs On FULL or Off only	"Heartbeat" (-1 per sec)	"Heartbeat" (-1 per sec)	"Heartbeat" (-1 per sec)	On	"Heartbeat" (-1 per sec)	OK	OK	XP panels only switch On or Off (no dimming). RK-CS not set up - see instructions for Load Types.
No dimming - always FULL	"Flutter"* (-5 per sec)	"Flutter"* (-5 per sec)	"Flutter"* (-5 per sec)	On	"Heartbeat" (-1 per sec)	OK	OK	Dimmer in Bypass - see instructions on load wiring. Dimmer defective - contact Lutron.
No dimming - Lights stuck at present light level/"frozen"	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	On	"Heartbeat" (-1 per sec)	OK	OK	2-pin plug(s) for dimmer communication link not connected at the bottom of the RK-CS.
	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	Off	Off	Out	Off	Control breaker "C" Off. 2 power plugs at top of RK-CS not connected. Control transformer may be damaged.
	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	On	"Flutter" (-5 per sec)	OK	OK	Miswire of control link wiring - wires 3 and 4 may be swapped, shorted to ground, or open.
	All ON continuously	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	On	N/A	OK	OK
Controls not working/"Dead"	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	On	Off	OK	Off	Miswire of control link wiring - unplugged terminal block or open wire 1 or 2.
	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	On	Off	OK	OK	Miswire of control link wiring - open wire 3 and/or 4.
	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	"Light House" (-1 per 7 sec)	Off	Off	Out	Off	Miswire of control link wiring - wires 1 and 2 shorted together or wire 2 shorted to ground. Turn control breaker "C" Off a minimum of 30 sec., clear the short, then turn breaker back On.
RK-CS does not function the same as previous Circuit Selector	"Heartbeat" (-1 per sec)	"Heartbeat" (-1 per sec)	"Heartbeat" (-1 per sec)	On	"Heartbeat" (-1 per sec)	OK	OK	Contact Lutron with job # (ex. 21022-01) and description of function desired.

* An accurate "Flutter" rate requires that the circuit be cycled OFF, then ON to high end from the appropriate Control Unit.

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This warranty is in lieu of all other express warranties, and the implied warranty of merchantability is limited to one year from purchase. This warranty does not cover the cost of installation, removal or re-installation, or damage resulting from misuse, abuse, or improper or incorrect repair, or damage from improper wiring or installation. This warranty does not cover incidental or consequential damages. Lutron's liability on any claim for damages arising out of or in connection with the manufacture, sale, installation, delivery, or use of the unit shall never exceed the purchase price of the unit.

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