Lamp Socket Wiring Tester
For use with Lutron® Ballasts only
FDB-LSWT-T5/T8
600 V~ 100 kHz 0.125 A Max. CAT III

This tester helps Lutron® installers decrease the amount of time to troubleshoot ballast wiring issues. The tester aids in identifying: instant-start sockets, wires not connected correctly to the socket or ballast, and socket wires shorted together. The socket tester is not designed to diagnose incorrect input wiring to the ballasts or controls, failed ballasts, or defective lamps.

Important Notes
This device shall not be used to verify that a fixture is electrically safe prior to maintenance.

**WARNING** – Shock Hazard present at lamp socket terminals. Do NOT touch lamp socket terminals during operation. Do NOT exceed 600 V at lamp socket terminals. May result in serious injury or death.

Device is not to remain permanently connected to a fixture under test. Do not connect to a fixture for more than 30 seconds. Excessive run time may shorten product life.

No maintenance or calibration is required for this device.

Not for use with any other manufacturer’s ballast products. Such acts will void product warranty and user assumes any unknown results.

This device contains double insulation.

This device is rated as Pollution Degree 2 and is for use in normal conditions. Normal conditions consist of indoor use up to 6562 ft (2000 m) in elevation and a temperature range of 41 °F to 104 °F (5 °C to 40 °C). A maximum relative humidity 80% for temperatures up to 88 °F (31 °C) decreasing linearly to 50% relative humidity at 104 °F (40 °C) is also required.

Usage instructions
1. Remove ALL lamps from the fixture.

2. Select the appropriate T5 or T8 terminals of the tester to be placed into a lamp socket.

3. With power applied to the fixture, insert the tester into a lamp socket. For a rotating socket, twist the device until it locks, just as you would twist in a lamp.

(Continued on back)
4. If green LED lights continuously or flashes on and off at regular intervals (approximately every 2 to 7 seconds), the socket is receiving voltage from the ballast.
5. If the green LED does not light, the socket is NOT receiving proper voltage at both pins.
6. Repeat step numbers 3 – 5 for all sockets in the fixture.
7. If any sockets in the fixture did not cause the green LED to light, TURN OFF POWER and check the system for errors (refer to Green Light Guide and Socket Wiring Guide below).

Green Light Guide

<table>
<thead>
<tr>
<th>Green Light On</th>
<th>Green Light Not On</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Fixture wiring is correct</td>
<td>• Incorrect socket type (instant-start)</td>
</tr>
<tr>
<td></td>
<td>• Improper/loose connection at ballast</td>
</tr>
<tr>
<td></td>
<td>• Improper/loose connection at socket</td>
</tr>
<tr>
<td></td>
<td>• Improper/loose connection at splice</td>
</tr>
<tr>
<td></td>
<td>• Yellow lamp wires in series configuration</td>
</tr>
</tbody>
</table>

Socket Wiring Guide

<table>
<thead>
<tr>
<th>Correct</th>
<th>Incorrect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rapid-start socket (rotary locking variety)</td>
<td>Instant-start socket</td>
</tr>
<tr>
<td>Yellow lamp wires in parallel</td>
<td>Yellow lamp wires in series</td>
</tr>
<tr>
<td>Pairs of like-colored wires in rapid-start configuration</td>
<td>Pairs of like-colored wires in instant-start configuration</td>
</tr>
</tbody>
</table>

If symptoms persist, refer to troubleshooting checklist:
Scan QR code below to connect to troubleshooting guide on Lutron.com or go to http://www.lutron.com/TechnicalDocumentLibrary/048436_Lutron_Public_Ballast_troubleshooting_guide.pdf

Technical Assistance

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

U.S.A. and Canada (24 hrs / 7 days)
+1.800.523.9466
Other countries (8am – 8pm ET)
+1.610.282.3800

Limited Warranty (Valid only in U.S.A., Canada, Puerto Rico, and the Caribbean)
Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid.

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 REINSTALLATION, OR DAMAGE RESULTING FROM MISUSE, ABUSE, 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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