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Underwriter's Laboratories (UL) has issued new requirements on GFCI functionality effective July 28, 2006:

### Line-Load Reversal Indication

If an old style GFCI is miswired with a line-load reversal, it is a potentially hazardous situation because the GFCI receptacle face will be live and unprotected even after the GFCI is tripped.

2003 UL Standard:

- There must be a diagnostic indicator if a miswiring (line-load reversal) occurs during installation. However, the GFCI receptacle's face may still be live and unprotected.

New UL 2006 Standard:

- If a miswiring (line-load reversal) occurs during installation, the GFCI must not be capable of supplying power to either the GFCI's face or to feed-through terminals.

### The SmartLock PRO Solution:

- SmartLock PRO provides a true dead-face design with an LED indicator for line-load reversals.

### "End-of-Life" Indication

GFCIs reach the end of their service life when they no longer provide ground fault protection. As with any electronic device, a GFCI can be damaged by surges, other electrical disturbances, or environmental and physical abuse.

2003 UL Standard:

- There are no requirements related to "end of life"

New UL 2006 Standard:

- GFCIs are required to provide a visual and/or audible indication OR be able to render themselves incapable of delivering power when they no longer offer ground fault protection based on a failure to pass their internal test.

### The SmartLock PRO Solution:

- Though a standard GFCI CAN be reset even if it is not providing protection...the SmartLock PRO's reset button will not engage if protection has been compromised. With SmartLock PRO's unique patented professional grade end-of-life lock-out action you can avoid having a live, unprotected receptacle in the event that the GFCI can no longer provide protection. The robust design of SmartLock PRO GFCIs also greatly reduces the frequency of GFCI failures, contributing to a longer GFCI service life.

### The Choice for 2006 UL End-of-Life Indication: Protection or No Protection?

Other GFCI manufacturers have taken the alternate route in the 2006 UL Standard by providing an indicator light for end-of-life indication. They allow the compromised GFCI to be reset, thereby permitting it to continue delivering unprotected power to the GFCI face and downstream receptacles. We disagree with this approach.

GFCIs are first and foremost proven safety devices. The National Electrical Code requires GFCIs to be installed in bathrooms, kitchens, workshops and other locations where water is present and there's a risk of ground fault shock

hazard. Leviton believes that a GFCI should be replaced immediately if it no longer provides ground fault protection. There is absolutely no people protection when a compromised GFCI functions as a "live" standard receptacle.

That's why Leviton's SmartLock PRO GFCI performs a self-test every time it is reset. If it is not capable of responding to a ground fault, the reset is blocked. Leviton's SmartLock PRO approach locks out a compromised GFCI, thereby providing the safest and smartest solution to people protection.

## General Testing Procedures

Non-Lockout Style GFCI	SmartLock PRO GFCI
Plug a lamp or radio into the GFCI receptacle.	Plug a lamp or radio into the GFCI receptacle.
Turn ON lamp or radio.	Turn ON lamp or radio.
Push the TEST button on the GFCI. If the GFCI is working properly, it will trip and power to the lamp or radio will be cut off. Push reset button to restore power.	Push the TEST button on the SmartLock PRO GFCI. The GFCI will trip and power to the lamp or radio will be cut off.
<b>Your GFCI is working properly and should be retested every month.</b>	
<b>If power did not go off:</b> If power did not go off when you pushed the TEST button, then the GFCI is not providing protection and should be replaced immediately. Standard GFCIs can still be reset and provide power even though they are not providing protection. <b>That's why we developed SmartLock PRO...</b>	Your GFCI is working properly if you can push the RESET button on the SmartLock PRO GFCI to restore power to the lamp or radio.  <b>IMPORTANT:</b> The RESET button <b>will</b> not restore power if the GFCI is damaged and cannot respond to a ground fault.