



1139 BAKER ST.  
COSTA MESA, CA 92626  
(714) 549 3041  
FAX (714) 549 0930

A Components Corporation of America Company

**TECHNICAL BULLETIN TB-152**

**PUSH BUTTON CONTACTS' CLEANING**

**Series 90 LED Lighted Switches, Indicators, and Matrices**

Description of the potential problem.

Oxidation and contamination of the push button contact surfaces in switches and indicators may occur due to many contributing factors. Some of these effective elements are high temperature, humidity, contaminated operating and storage environments, galvanic corrosion, dirt, and operating conditions. Any accumulated contamination/oxidation may cause some variation in the irradiant light intensities of LED light sources.

Periodic contact cleaning procedure.

It is recommended to the end users of LED lighted push button switches and indicators, configured either as individually mounted or matrix assemblies, to adopt the contact cleaning procedure described below as part of their general maintenance program. The following cleaning procedure should be repeated once every 90 days providing that the push button duty cycle is less than 50%. If the duty cycle is greater than 50%, one needs to clean the contacts every sixty days.

1. Disassemble switch push button from the housing using push button extraction tool (reference part number 15193), if available.
2. Turn over the push button and view it from its rear side. Locate four semi-spherical solder contacts.
3. Hold the push button in one hand with its display facing upward while the LED contacts are found underneath of the lamp box. Use a fine grade synthetic steel wool (Scotch Brite or equivalent) and very gently clean the four push button solder contacts (semi-spherical solder). Caution, applied pressure on the contacts must be very light and with one finger only.
4. While the push button is still held in the same position as above, gently wipe off the solder contacts with a lint free cloth. Use air duster to blow away the remaining particles.
5. Turn the push button on its side so that the solder contacts are visible. Apply a thin layer of protective grease to the four solder contact surfaces. The protective greases could be either automotive type (for example, Automotive Dielectric Tune Up Grease or Dielectric Compound) or marine grade greases. These lubricant compounds are used to protect the contact surfaces against dirt, moisture and corrosion.
6. Reinstall the push button into its housing.

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