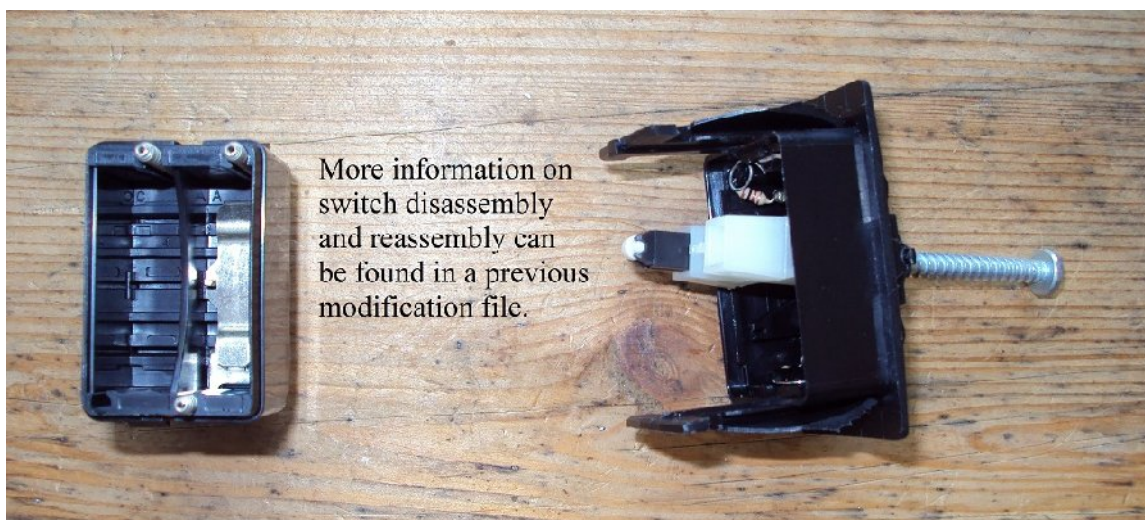




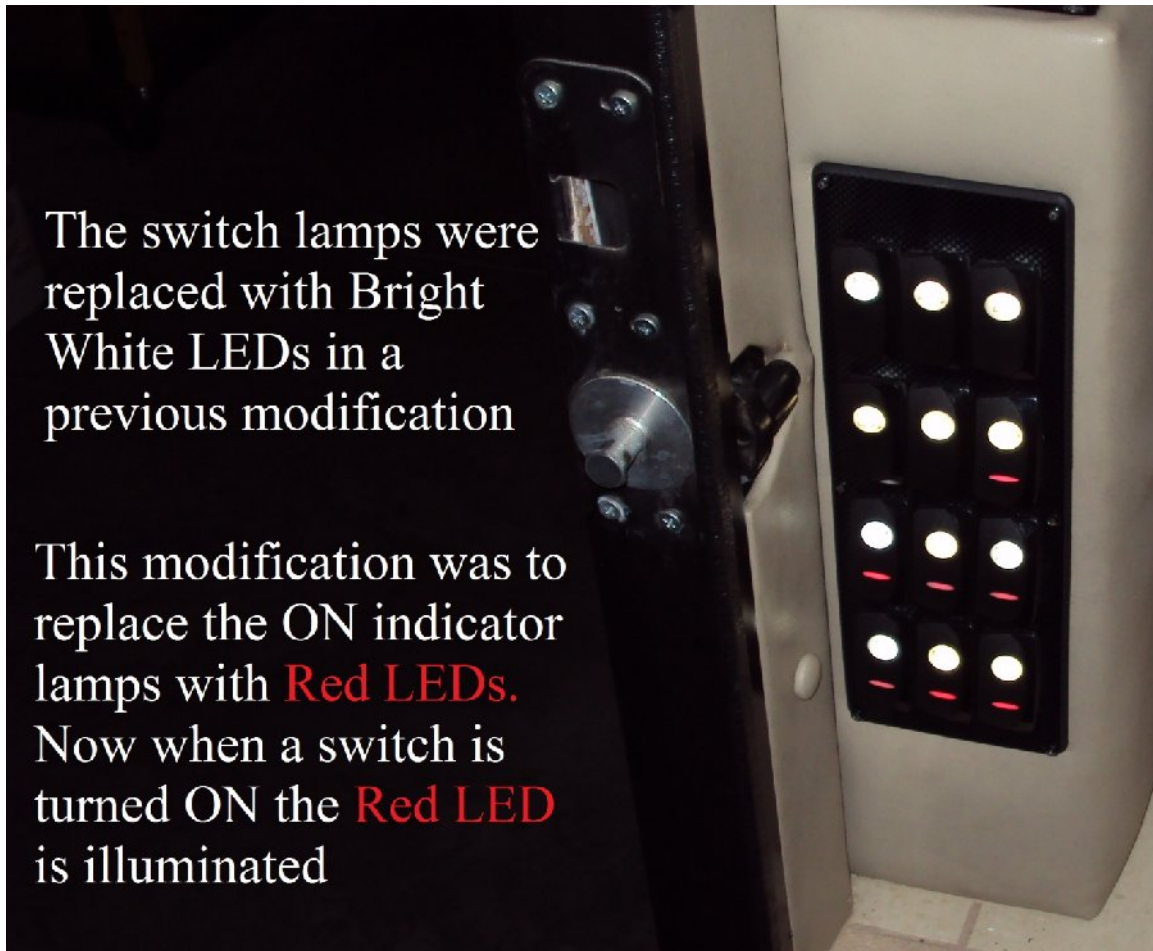
2010 43QGP Allegro Bus

1/6/2012

FIFTY-EIGHTH - coach modification – **ENTRY DOOR SWITCH**
PANEL INDICATOR LIGHTS, revision 1. A few months ago under “Crusingator FYI # 14” I demonstrated how to dis-assemble and re-assemble the Carling switch used by Tiffin on our entry door switch panel. After earlier replacing the panel lights with white LEDS I decide to expand the project to include replacing the ON indicator incandescent lamps with RED LEDS.



As shown in the first photo I decided to use 5MM LEDs for one simple reason they fit the hole in the switch vacated by the incandescent lamp.



This is a simple low cost but time consuming project. I like the way the finished panel looks the only part I would have done different would be to use a lower light output LED in place of the Bright White LED in the switch logo light. However this amount of illumination serves great to light up the step well.

Revision 1, Tiffin if the customer complains will install a 4 Ohm 10 Watt resistor, the resistor is installed to lower the voltage powering the switch's incandescent lamps in hopes of making the lamps last longer than the lamps normal do. The problem these lamps are rated for 12 VDC, the charger and engine alternator can produce up to 15 VDC which shortens the life of the lamps, lowering the DC voltage usually helps to increase the lamps lifespan. After making the LED modification we later found those twelve white LED's projected too much light inside the coach. After waiting over a year I finally got around to making the following revision. To decrease the LED lighting output a 50 Ohm 10 Watt wire wound resistor was installed in the lamp supply line dropped the normal 13.45 VDC supply voltage down to 9.45 VDC, a 4 VDC decrease, which made a significant reduction in light.