INSTALLATION INSTRUCTIONS
107150 Flex PC Board for Analog Dash 1984-1987 Turbo Buick

This flexible printed circuit board is designed to replace and upgrade your existing flex board. It is responsible for connecting the dash indicator and general lighting lamps to the vehicle wiring harness. Failure causes malfunction of the dash lighting and telltale indicators.

Due to age and poor design, the original flex board fails in several different ways; the original copper traces tend to tarnish, creating high resistance and low bulb brightness, and the bulb socket contacts tend to wear through at the point of contact, preventing proper electrical connections to the lamps. Additionally, the early polyester material used in the original design often de-laminates, causing failed copper traces and short circuits; also, one section of the board which is punched out to accommodate the Tach/Boost wiring is compromised, causing an overcurrent failure on the general lighting circuit. Additionally, a common failure with the VOLTS lamp connection causes the alternator to stop charging the battery.

The new design overcomes these anomalies. This flex board incorporates a high strength Kevlar material base instead of the OEM polyester material. One minimized trace for general lighting has been beefed up, and there is a "Field Fix" soldered directly to the flex board to prevent alternator charge failure in the event of a burned out VOLTS lamp or lamp socket failure. Remove any other free-hanging bulb sockets (SES and Security).

TO INSTALL: Remove cluster from dash. This involves removing the padded surround, mounting bolts, and front trim. Pulling the dash towards you, unlatch the speedometer cable by pushing the lock inward and pulling the cable cuff from the cluster. Remove the VSS pickup by removing one screw using a 7/32" nut driver. Disconnect the ground strap by removing the attachment screw and washer.

Working on the bench, remove each bulb socket by twisting counter-clockwise and pulling from its location, noting the original location of each bulb socket. Gray colored sockets use the standard 194 (white bead) lamp, but black sockets use the 167 (blue bead) lamp. Carefully remove the flex PC board and replace with the new part. If your dash is equipped with the resistor socket (see image below) in your VOLTS location, you should remove it and replace that socket with a standard socket. Also, there may be a "Low Fuel Warning Module" installed in the empty spot with 3 copper traces surrounding it; this will fit in the same location.

Note that bulb sockets commonly fail, so when replacing this flex board, it would be a wise idea to replace the bulbs and the bayonet-lock sockets.

Field Fix Option

"VOLTS" INDICATOR LAMP with RESISTOR

LOW FUEL WARNING MODULE

Blue Bead "167"

White Bead "194"