

This bulletin covers a modification to the SMART Showmaton with Controller boards whose part number is ACSI310 or ACSJ310. This modification updates the hardware for controlling the DOUSER OPEN and CLOSE relays.

UNITS AFFECTED - SHOWMATON WITH SHOWGRAMMER II AND STANDALONE SHOWMATON

Modification

This modification will replace U1, a ULN2803 IC, with a small circuit board containing a ULN2803 IC and 2 additional pulse forming circuits. This board has a connector on the bottom which will plug directly into the IC socket. Remove the existing IC from the socket. Plug the board into the U1 socket being careful to orient the board as shown below. **Make sure that all pins go into the socket properly.**

Reason

This modification updates the hardware to provide protection for the Douser Open and Close changeover coils in the event of a lockup which could leave voltage applied to the coils, thereby causing the changeover coils to overheat with possible damage. This circuit ensures that the Douser Open and Close relays can only stay energized for a short period of time even if the rest of the control hardware locks up for some reason.

