

## Service Bulletin No. 58



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# Technical Support

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TO: Service Managers  
DATE: April 15, 1994  
RE: **Solid State Flippers - Remains Energized**

**Symptom:** The flipper remains energized after releasing the *flipper button*.

**Problem:** The *damping diode* (diode across the coil lugs) on the flipper coil is open or has a *cold solder joint*. The counter EMF (Electro Motive Force) produced by the magnetic field in the coil collapsing *is* a reverse polarity voltage which can cause damage to the circuit components on the flipper board or in most cases, we have found it to gate the S.C.R. in the holding voltage circuit causing the flipper to remain energized as if you were still holding the *flipper button* in.

**Solution:** Replace the *damping diode* on the flipper coil or repair the *cold solder joint*.