

TELEVISION TECHNICAL BULLETIN

MODELS DV5101H DV5103H

SYMPTOM Repeated or intermittent failures of the chopper power supply transistor (Q702).

ACTION In some cases, it is possible for the power supply to fail repeatedly due to incorrect drive conditions applied to Q702. To assist in finding faults in this area, it is possible to run the oscillator within IC700 using an external DC power supply.

With the mains supply disconnected, supply pin 9 of IC700 with 12VDC, ensure that the 0V line of the power supply is connected to the negative plate of the main smoothing capacitor, C705.

When the power supply is turned on, the following waveforms should be present. Note the relative DC levels, if these are incorrect, then the chopper transistor will be incorrectly biased and may fail prematurely.

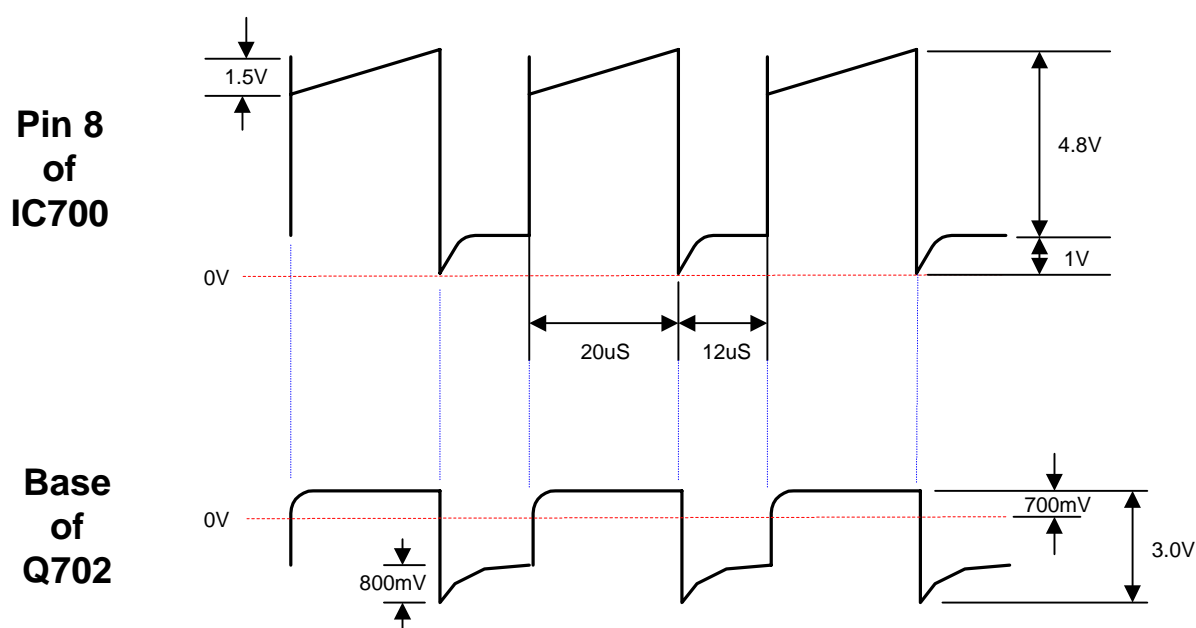


Figure 1: Waveforms present when IC700 is connected to an External Power Supply

Note that all the above waveforms are approximate; there may be slight variations between chassis.

Sharp Electronics (UK) Limited

Reference AVW12032001-1

Revision 1



White – Carry out as required

Yellow – Carry out as required and whenever the unit comes in for service

Red – Carry out on all units