

TELEVISION TECHNICAL BULLETIN

MODELS DV5105H DV5107H DV5132H

SYMPTOM Intermittent failure of the power supply.

CAUSE Various components.

ACTION If Q702 immediately goes short circuit when the set is turned on, check that D716 has not gone short circuit or that T700 (chopper transformer) is not short circuit across pins 7 and 2. Note that D716 is connected across Q702 emitter earth return resistor, as this is only 0.22Ω, D716 needs to be removed before testing.

If the power supply works, but fails after being run on soak test, replace D708 and D709, also check that the main smoothing block (C705) has not got loose rivets.

In some cases it is possible for the HT to rise significantly during standby, the normal value of the HT in standby is anywhere between 120VDC and 130VDC (this rise is due to the line output load being removed). If this increases above 130VDC, there is a problem. Check the feedback circuit around the opto coupler and D751.

Note that it is important that Q702 is replaced with the correct type or long term reliability problems will ensue (MJF18006).

The HT voltage should be set to 113VDC on a blue screen (pull out the aerial and wait a few minutes - the screen will turn blue due to lack of line sync).

<u>REF NO</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>	<u>PRICE CODE</u>
C705	Capacitor, 100uF 400V	RC-EZ0104BMZZ	AP
D708	Diode, 1N4934	RH-DX0519BMZZ	AB
D709	Diode, 1N4934	RH-DX0519BMZZ	AB
D716	Diode, 1N4148	RH-DX0045BMZZ	AA
D751	Diode	RH-DX0226CEZZ	AC
Q702	Transistor, MJF18006	RH-TX0119BMZZ	AL
T700	Chopper transformer	RTRNZ0514BMZZ	AU