

## VIDEO TECHNICAL BULLETIN

<b><u>MODELS</u></b>	<b>VCM301HM</b>	<b>VCM302HM</b>	<b>VCM311HM</b>	<b>VCM312HM</b>
	<b>VCM321HM</b>	<b>VCM331HM</b>	<b>VCM522HM</b>	<b>VCMH711HM</b>
	<b>VCMH721HM</b>	<b>VCMH73HM</b>	<b>VCMH731HM</b>	

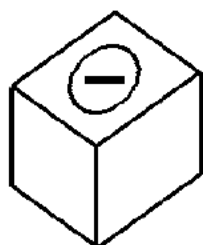
**SYMPTOM** Failure of the bias oscillator, leading to permanent erase or loss of the linear audio track during record and playback.

**CAUSE** Due to an increase in the localised heat generated by T651, Q651 can go out of tolerance. This may lead to Q652 and R658 failing as well.

**ACTION** Carry out the following circuit change.

1. Replace R658 with the same type.
2. Replace C655 with a 47uF, 16V capacitor.
3. Replace L651 with the one listed below.
4. Replace Q652. If the PWB is damaged so that this component can not be fitted, follow the instructions on page 2 to fit a radical component.
5. Replace Q651 where necessary and bending it away from the transformer, as shown in the diagram below.

<b><u>REF NO</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>PART NUMBER</u></b>	<b><u>PRICE CODE</u></b>
R658	Resistor	VRD-RA2EE4R7J	AA
C655	Capacitor	VCEA9M1CW476M+	AA
L651	Coil	VP-DF221K0000*	AB
Q652	Transistor	VS DTC323TS/-1	AB



Push Q651 away from T651 as shown



Q651 connections (as viewed from the base of the device)

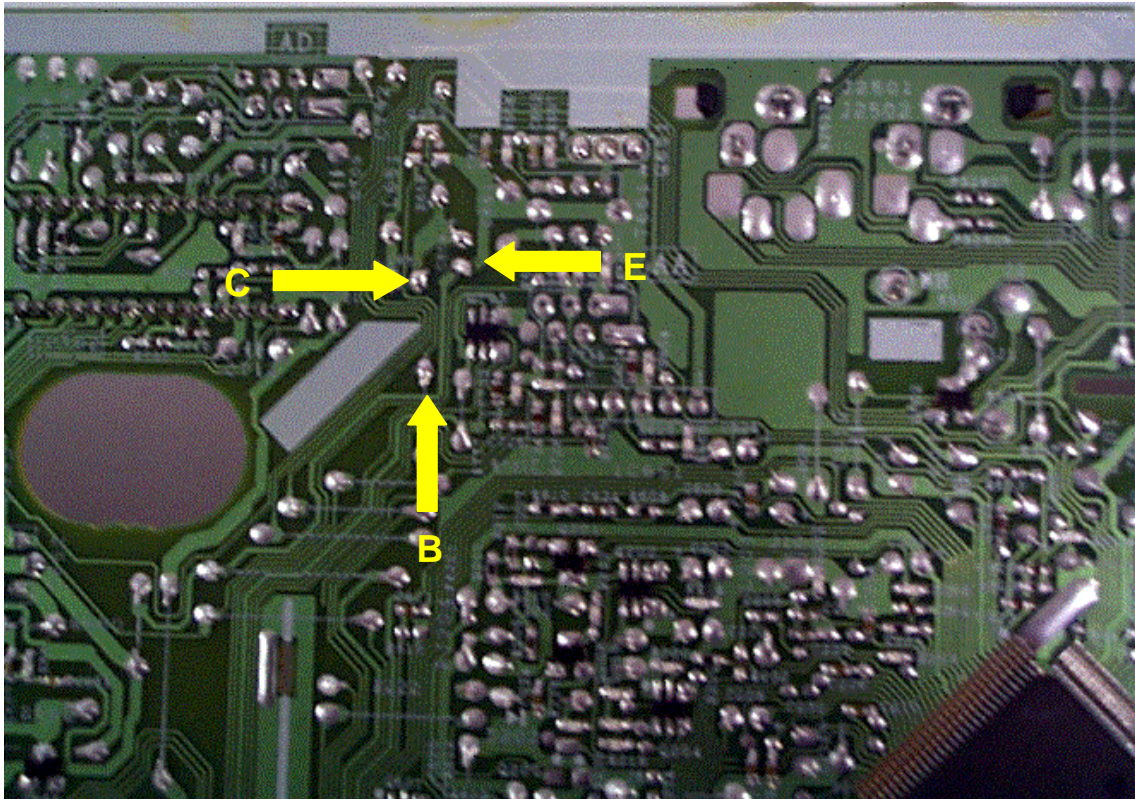
**Figure 1: Correct Positioning of Q651**

**Sharp Electronics (UK) Limited**

Reference TBT9902066  
Revision 4



White – Carry out as required  
Yellow – Carry out as required and whenever the unit comes in for service  
Red – Carry out on all units



**Figure 2: Location of Q652**

Fit the radial transistor (Q652) as shown in the diagram above.

Note that the pin connections of Q652 are the same as Q651.

C (collector) to the negative end of C655.

E (emitter) to the negative end of C654.

B (base) to the jumper wire J176.