

MODEL 66GS62H

Horizontal Stage Problems with the GA10 Chassis

Dry joints normally instigate faults in the horizontal stage on one or several of the tuning/correction capacitors or failure of Q601 and Q602. Ensure that C601, C602, C619 and C624 are not dry jointed or faulty in any way. Due to the nature of faults in the horizontal stage, the NVM can become corrupted, so it is recommended that if further problems are experienced after finding faults in this stage, that the NVM is reprogrammed.

Intermittent Operation

Unit intermittently will not start up from standby, shuts down or the line collapses. Q606 failing intermittent, it may read perfectly alright on a component test. This transistor is part of the protection feedback circuit.

This problem can also be traced to the incorrect type of device fitted to position Q601. We have had several reports of this problem from Service companies who have purchased the above Transistor from various independent (non-Sharp) Spares suppliers.

Intermittent line collapse or turning off

This problem can be caused by one of the HT feedback resistors (R742, R743, R744 and R745) on the secondary of the power supply. Usually it is R743 that fails and it is best to check this component by substitution as the fault may not respond to flexing the PWB.

Dead

Q601 and/or Q602 short circuit. due to excessive heat build up. It is recommended to change Q602 to a 2SK2843 and replace the heatsink fitted to Q601 and Q602 to a larger size in order to reduce their operating temperature. The original heatsink is 65mm in height, the new one is 110mm in height. If the heatsink has already been changed for the larger type, it is not necessary to change it again.

<u>REF NO</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>	<u>PRICE CODE</u>
Q601	BUH515D ST	RH-TX0226BMZZ	AK
Q602	TRT 2SK2843	RH-TX0236BMZZ	AE
-	Heat sink set	PRDARA018WJFW	AN
Q606	SMD Transistor, 2SC2412	VS2SC2412KQ-1	AA
C601	Capacitor, 10nF 1.6kV	RC-FZ0158BMZZ	AF
C602	Capacitor, 4.7nF 1.5kV	RC-FZ0148BMZZ	AD
C619	Capacitor, 100nF 250V	RC-FZ0198BMZZ	AG
C624	Capacitor, 220nF 400V	RC-FZ7224BMNJ	AE
R742	SMD resistor, 120K Ω 1%	VRS-TQ2BD124F	AA
R743	SMD resistor, 120K Ω 1%	VRS-TQ2BD124F	AA
R744	SMD resistor, 3.9K Ω 1%	VRS-TV1JD392J	AA
R745	SMD resistor, 470K Ω 1%	VRS-TV1JD473J	AA

Note that the list of components given above **IS NOT** a parts list to cure all horizontal stage related problems in this chassis. It has been compiled to show all the part numbers for items referred to in this document. If the parts noted in the text are not faulty, carry out fault finding procedures to locate the problematic part.

Sharp Electronics (UK) Limited

Reference AvW 10 03 2004 - 1

Revision 3

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