

Replacing The HT Cable (lid) on the Quorum / Emitech K675X

Tools Required

2.5mm Allen Key
PZ 2 Screwdriver
PZ 1 Screwdriver
Soldering Iron

Introduction

This procedure details the replacement of the HT Cable from the lid of the K575x to but not including the series resistor. It does not cover replacement of the HT cable from the series resistor to the HT supply PCB.

Procedure

- 1) Remove the power cord from the instrument.
- 2) Remove the two dark grey plastic trim pieces at the rear corners of the instrument (4 x M4 screws)
- 3) The top cover can now be removed by withdrawing to the rear of the instrument.
- 4) Locate and remove the two M3 screws in the rear of the instrument side panels.
- 5) Remove the six M3 screws retaining the chamber pillar rear cover.
- 6) The instrument back panel can now be tipped backward to improve access to the HT cable.
- 7) Locate and remove the two M3 Allen screws at the front of the top plate fan cover. Remove the fan cover by drawing forwards.
- 8) The HT connection to the top plate can be removed by simply unplugging.
- 9) The other end of the HT cable will need to be unsoldered from the large chassis mounted power resistor. This will require the "heat shrink" insulation applied during manufacture to be removed. If the replacement cable does not include an earth connection this should also be unsoldered.
- 10) The free end of the replacement cable should be striped back such that the earth connection can be made to the copper screen and such that the gap between the screen and the central conductor is at least 10mm.
- 11) Remake the HT and earth connections and apply ensure the joints are insulated. Ideally this should be of the "heat shrink" type but tape would be acceptable.
- 12) Refit all panels and covers. Take care when refitting the back panel not to trap any wiring loom or gas pipe.
- 13) Check the instrument for correct operation.
