

Supply power link location (serial communications board)

**RE-ASSEMBLY HINTS**

- 7 The re-assembly of the instrument is achieved by carrying out the reverse of the disassembly procedure given in steps 1 to 6.

Care must be taken to ensure that all flexible cables are correctly and fully inserted into their connectors.

# Service instructions Models 6180XIO, Eycon-20

**INTRODUCTION**

This document gives disassembly details for the above instruments. This allows the replacement of the display unit and/or its backlighting, the inverter board, the main board and the serial comms board. The location of the link which shorts the two 24V input pins together is also given, so that the user may cut the link, to make the instrument suitable for use with redundant power supplies.

**SAFETY PRECAUTIONS**

Ensure that the unit is isolated from supply voltage for at least 15 minutes before starting to work on it. This will allow the high voltages associated with the inverter board to dissipate safely and will also allow the power supply unit to cool down. The user should be aware, however, that areas of high temperature may exist even after this period has elapsed.

**STATIC ELECTRICITY**

**CAUTION**




These procedures involve the handling of components which are susceptible to damage caused by the discharge of static electricity. All relevant personnel must be aware of static handling procedures. It is recommended that a static safe container be available, into which any circuit board(s) removed from the instrument may be placed.

**DUST INGRESS**

When replacing the display or backlight, it is essential to keep the front face of the display and the rear face of the touch screen as clean as possible. The use of polythene or latex gloves is recommended when handling the display unit. If possible, the replacement should be carried out in a Clean Area.

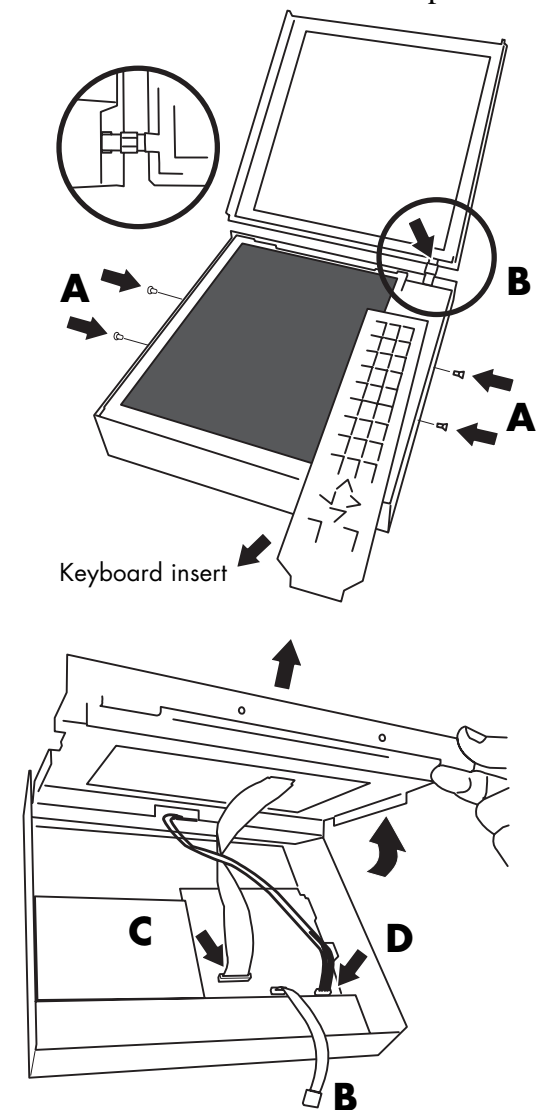
Particles of dust not only appear unsightly, but can also affect the performance of the touch screen, in extreme circumstances, causing a continuous 'press' to be perceived by the instrument.



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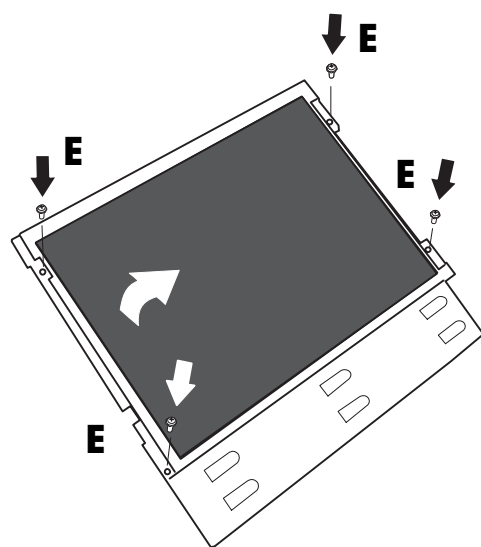
**DISASSEMBLY PROCEDURE**

With the unit removed from the panel:



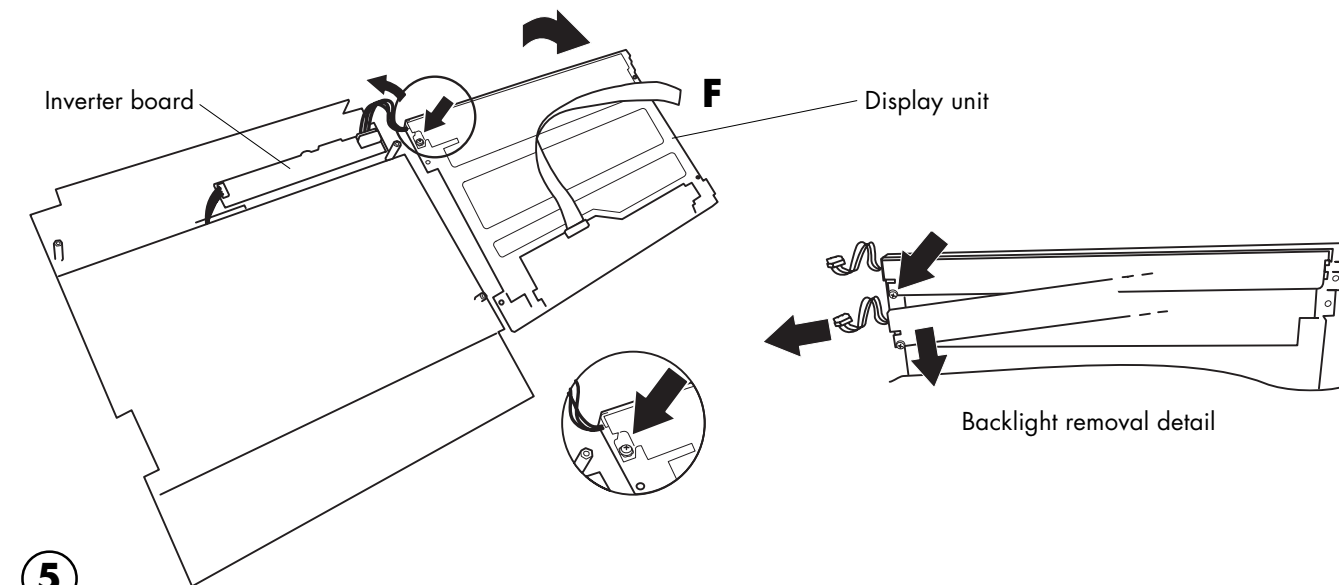
- 1 Remove the four Torx-headed screws located, two each, at the top and bottom of the instrument (Screws 'A').
- 2 Carefully lift the cover away from the chassis, disconnecting the Touch-screen flexible cable ('B') at the bottom right when it becomes accessible. Remove the keyboard insert and put to one side for use in later re-assembly.

- 3 Lift the display assembly away from the chassis, releasing the display flexible cable ('C') and the display power harness ('D') when these become accessible.  
To replace the display, inverter board or backlight assembly, continue at instruction 4. To replace the main board, or the serial communications board, or to gain access to the power supply links, continue at instruction 6



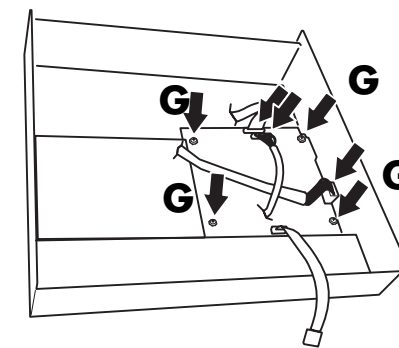
- 4 Release the display by undoing the four retaining screws 'E'.

**DISASSEMBLY PROCEDURE (CONT.)**



- 5 This allows the display unit, the inverter board or the backlighting unit to be replaced as required. If the display unit is to be replaced, the flexible cable ('F') should be removed from the existing display unit, and installed on the new display unit.

- 6 From instruction 4.  
To remove the main board disconnect all remaining harnesses, looms and flexible cables from the main board. The main board may now be removed by undoing the four securing screws 'G'.



The serial communications board may be removed in a similar way, by removing screws 'H'.

The link (figure below) joining the two 24V input terminals can be cut without removing the board. This would normally only be done if 'redundant' power supplies are to be used.

