

29 GDS Helpsheet



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Systems for Geotechnical Engineers and Geologists*

Hardware

STD & ADV Controller

Replacing Touch Panel Keypad

1. Introduction

The ribbon cable attached to the touch panel keypad is a delicate strip of polyacetate with electrically conductive tracks printed on it. This can be damaged if the top plate of the controller is raised too far without first reaching in and releasing the connector. If this happens a column of keys becomes unresponsive to touch and the keypad has to be replaced.

2. Removal of Display

Removing the touch panel and display from the controller is applied common sense. Just undo the fixing nuts on the underside of the top plate. The panel should just drop out. Sometimes the panel is a snug fit into the top plate cut-out. This can be loosened by gently tapping with a plastic or wooden mallet the screw studs that pass through the top plate.

Once the touch panel and display are removed you can address the removal of the display. The object here is to transfer the display from the old panel to the replacement panel.

Undo the three fixing nuts and gently raise the display one end at a time little by little. Note most carefully the position, number and configuration of spacing washers both metal and nylon. In particular note that one of the studs by the connector does not have a nut fixing but does have spacing washers.

3. Reassembly of Display

Reassemble the display on the replacement panel.

Note that the washers touching the printed circuit board of the display are non-conductive nylon. Also note the display is packed up with washers so that it fits flush with the outer skin of the panel. Be very careful here. The panel skin is thin and can be easily damaged.

Check that the panel skin side of the display connector does not touch the metal panel body. If it does you have forgotten to put in enough spacing washers to lift this clear.