

### Output Protection

The voltage and low 2A current terminals in 2000 series calibrators built after Aug 2004 have advanced protection circuitry against damage to applied voltages on the output terminals.

Before connecting the output amplifiers to output terminals when the 'output on button is pressed, the 2000 series first tests for any applied voltage (greater than 10 Volts AC or DC) to the terminals, and also if negative to ground is selected between the low terminal and earth.

If voltage is present the calibrator will display the warning message

### 'Voltage on terminals'

and the calibrator will remain in standby.  
Avoiding damage to the calibrator.

Remove the source of voltage to the calibrator's terminals and re select output again.

In the event of power being applied to the terminals when the output is already on protection fuses inside the calibrator will blow.

There is a fuse in series with the positive voltage terminal, the positive 2Amp current terminal and the earth terminal.

One fuse on the PCB behind the terminals next to the earth terminal protects the negative to earth circuit. If power has been applied to the negative terminal when 'negative to ground' is selected this fuse will blow.

Should there be no output from the voltage terminal or from the current terminal then these fuses should be checked.

### Replacing Fuses

Fuse Type 20mm, 2Amp ultra fast.

#### **Important Note:**

Should replacement be required it is important to use the same type and value for continued protection against damage to the calibrator.

The fuses are located behind the front panel and it is necessary to remove the panel to gain access to the fuses



**ENSURE THE CALIBRATOR IS  
DISCONNECTED FROM THE MAINS  
SUPPLY BEFORE PROCEEDING**

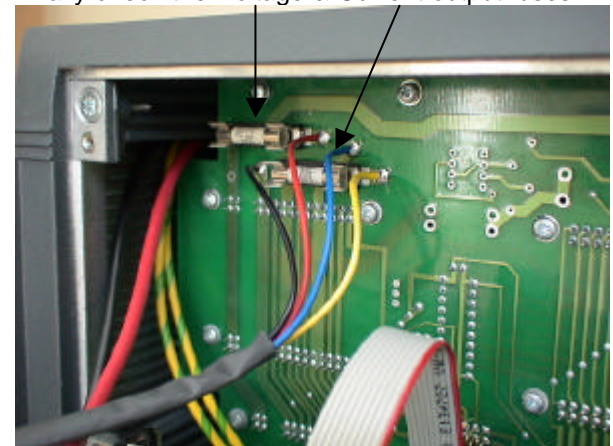
Firstly pull away plastic cover strip at each end of front panel as shown below.



Then remove the 2 screws at each end of panel, as below



Finally check the Voltage & Current output fuses



For information on other Transmille products



Click on to...  
[www.transmille.com](http://www.transmille.com)