



www.fittech.com.au • info@fittech.com.au

MADE IN AUSTRALIA

Testing the PT5A Position Transducer and its Leads.

Fitness Technology

21 Bishop St.

Skye SA 5072

Australia

+61 8 8331 9229

Mob: 0418 815 400

www.fittech.com.au

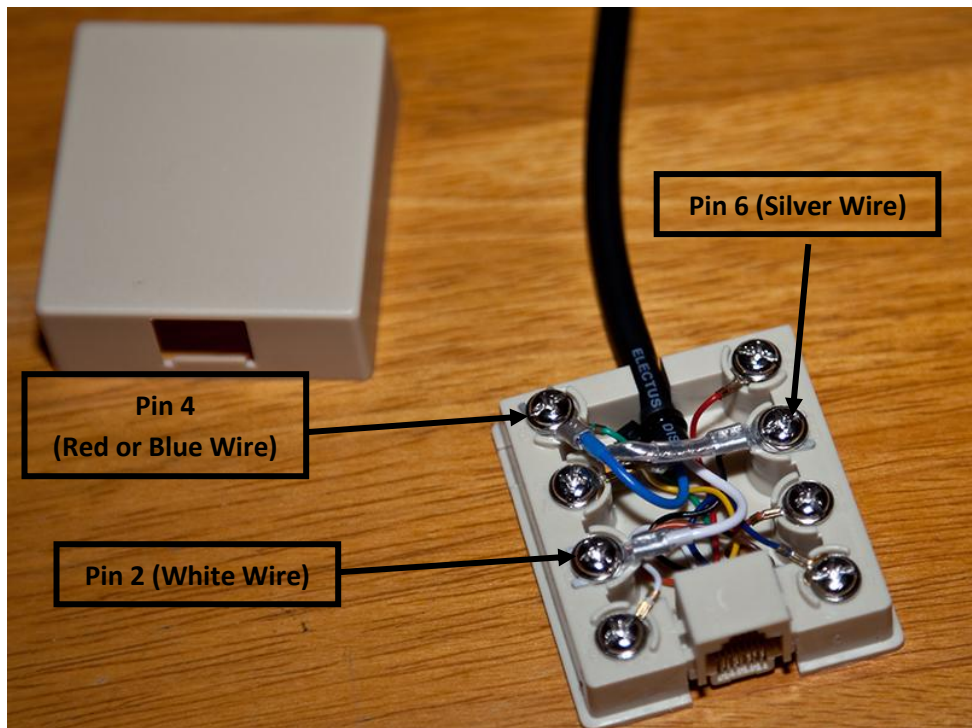
Copyright: Fitness Technology, Adelaide, Australia 21st March 2005

Tel: +61 8 8331 9229 Mob: 0418 815 400. www.fittech.com.au
Copyright: Fitness Technology, Adelaide, Australia 21st March 2005. Issue 2.00, 21st Aug
2008

If you have an FT700 Power Cage the following tests can be carried out by leaving the cables connected to the frame of the FT700. This will ensure that the cables that run on the inside of the FT700 frame are tested as well.

Testing the continuity of the BMS lead

The RJ45 Socket (shown below)

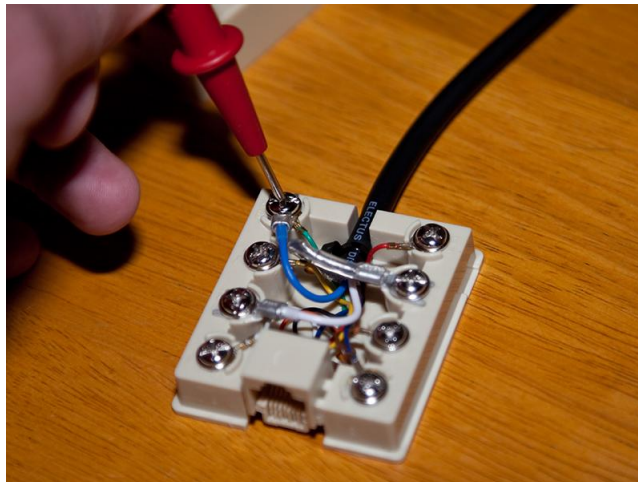


Set your Multimeter to continuity tester mode. This is normally indicated by an audio symbol as shown below.

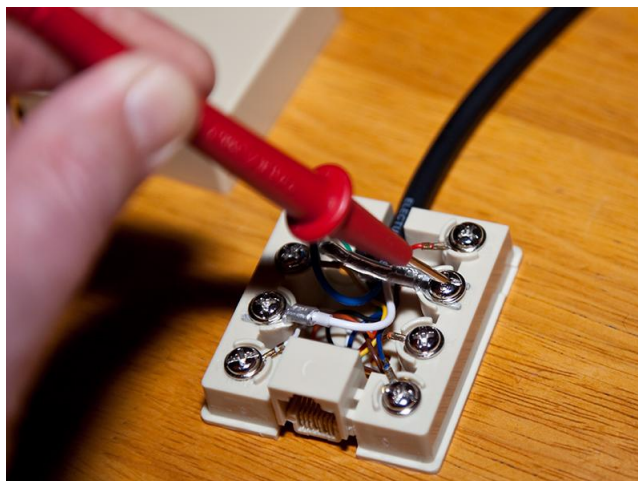


To test for continuity hold one of the probes to the relative pin of the BMS plug (you may need to push a wire into the BMS plug to ensure proper contact if the probe is too large to be inserted) and the other probe to the associated Pin in the RJ45 Socket. The combinations that should give an audio tone to indicate that you have continuity are shown below. (There are three separate connections in the BMS lead)

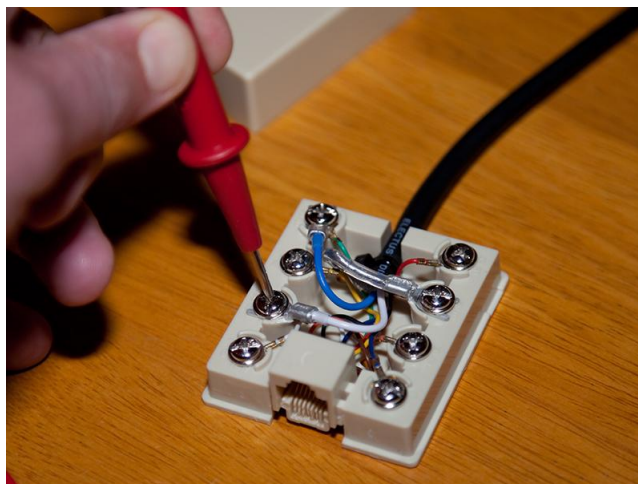
Check Continuity between Pin A on the BMS connector (below left) and Pin 4 on the RJ45 socket (Below Right)



Check Continuity between Pin B on the BMS connector (below left) and Pin 6 on the RJ45 socket (Below Right)



Check Continuity between Pin C on the BMS connector (below left) and Pin 2 on the RJ45 socket (Below Right)



Testing the PT5A Position Transducer.

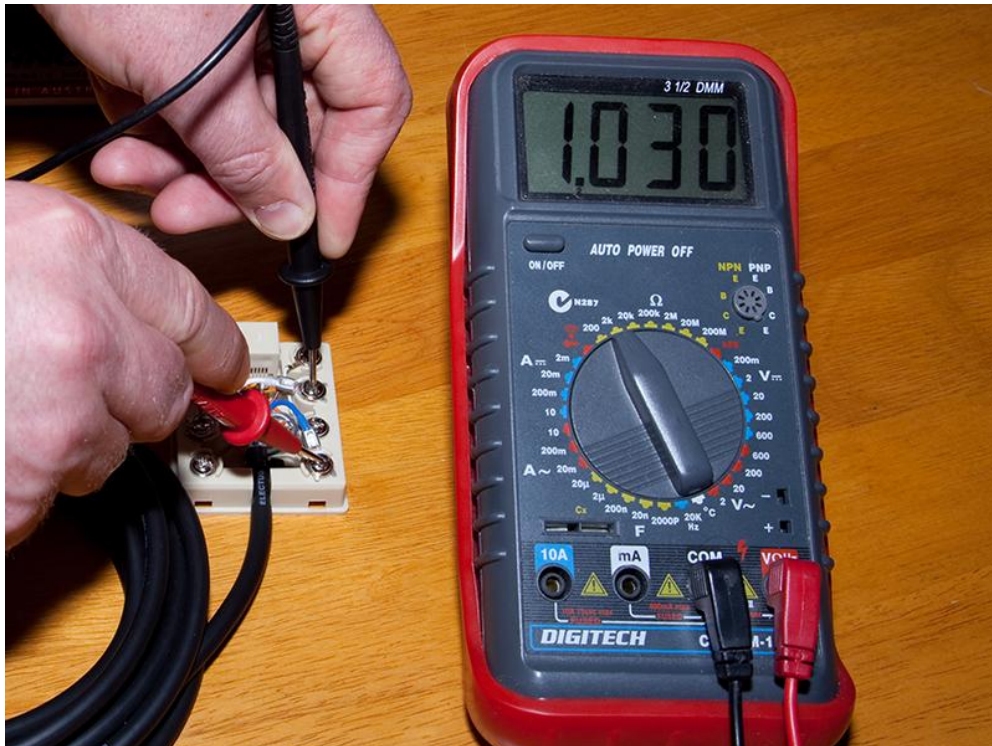
Connect the BMS cable to the PT5A Position Transducer and remove the cover from the RJ45 Socket.



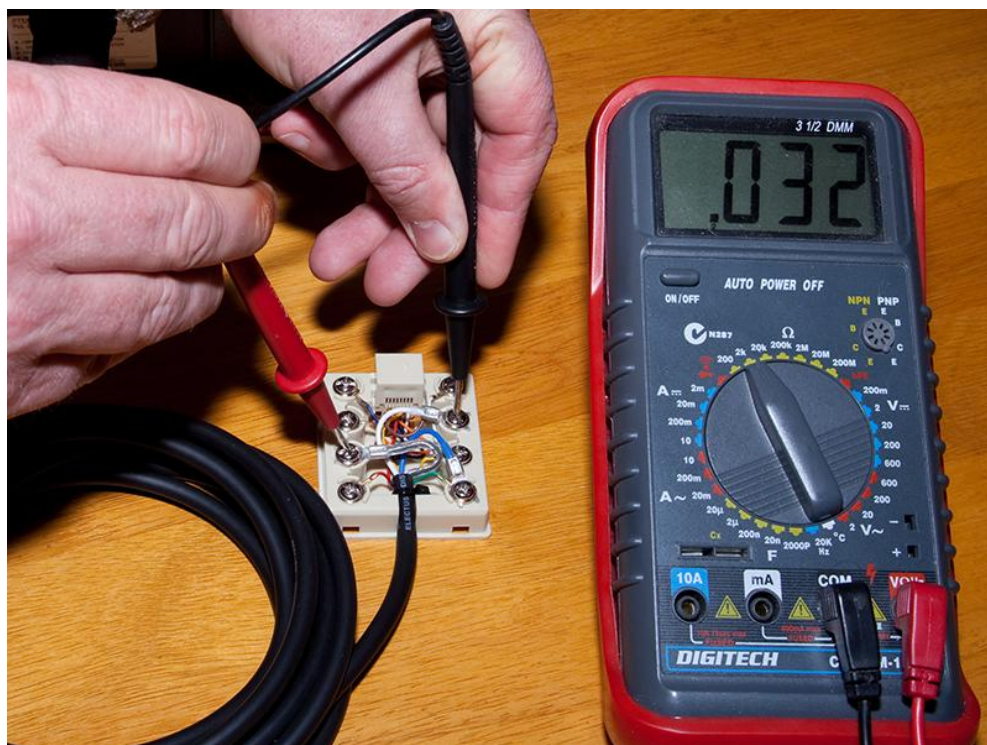
Turn the multimeter to its resistance setting (2kΩ).



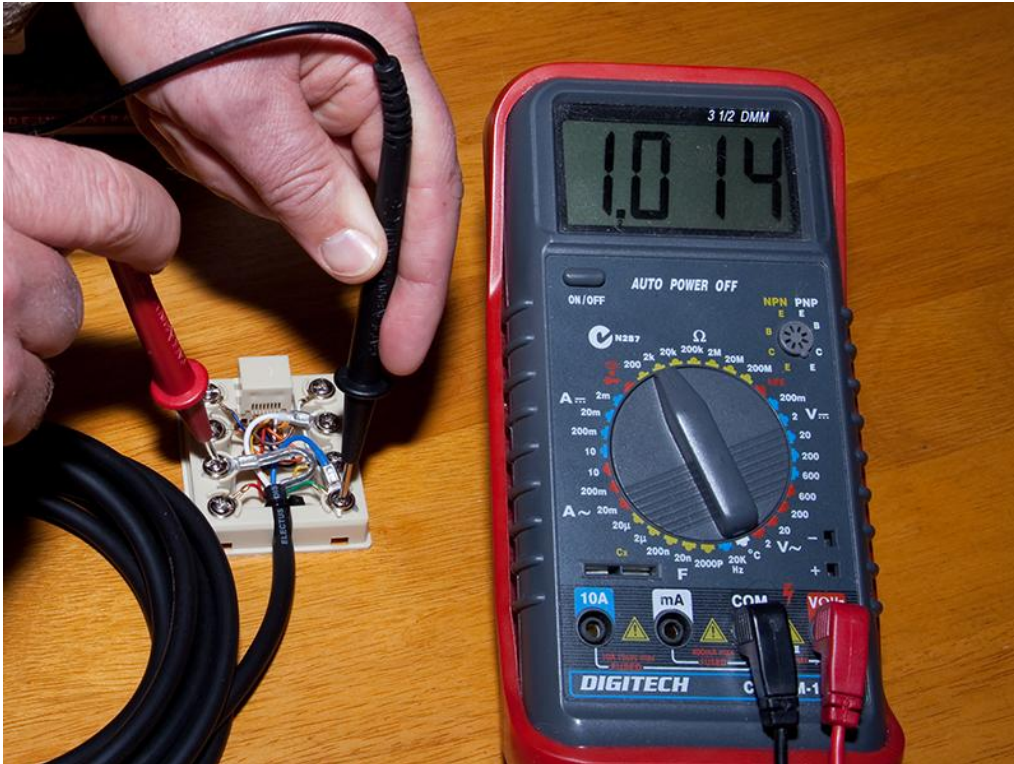
Place the probes on pin 2 (white wire) and Pin 4 (Blue or red wire). The meter should show around 1k Ω .



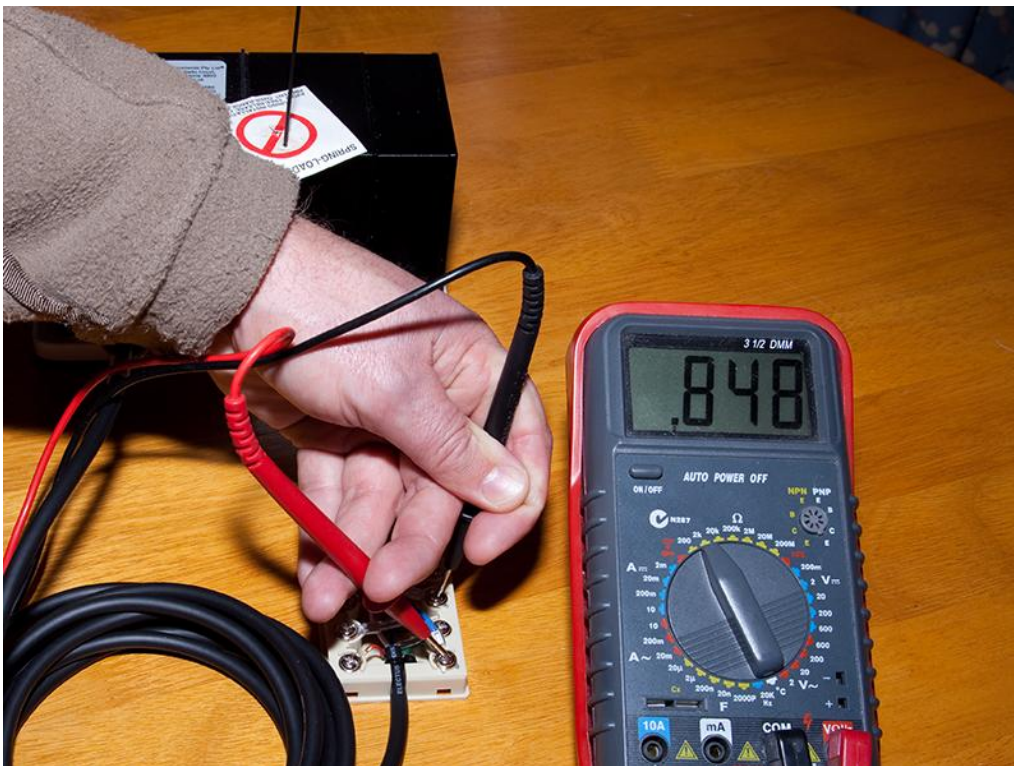
Place the probes on pin 2 (white wire) and Pin 6 (silver wire). The meter should show around 0k Ω .



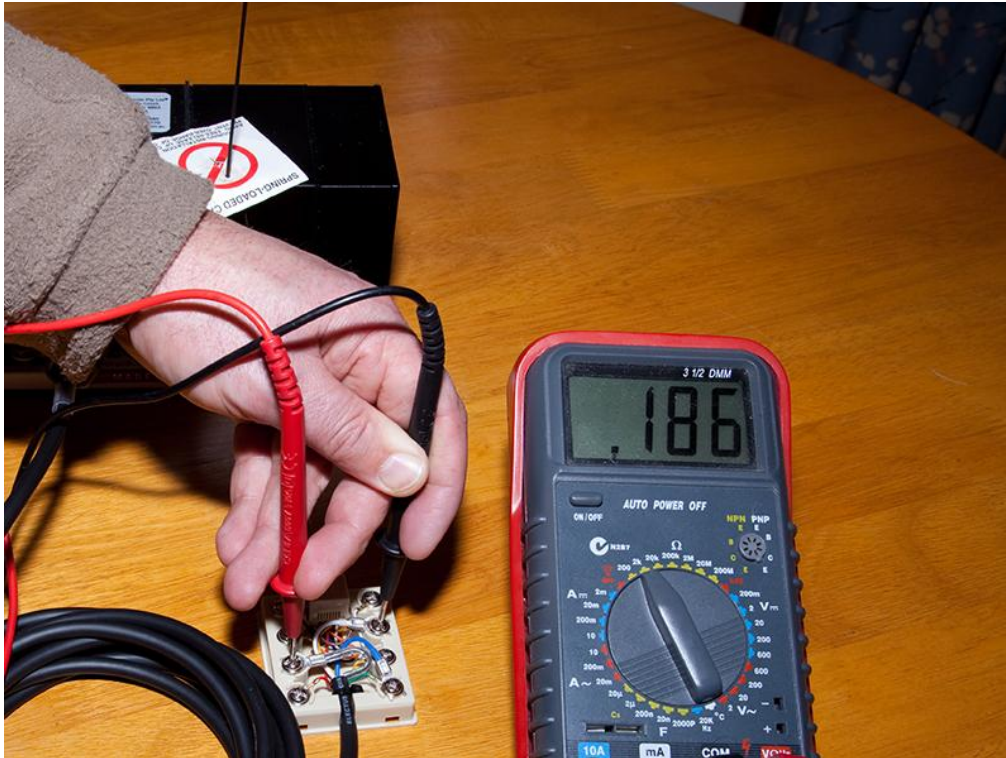
Place the probes on pin 4 (blue or red wire) and Pin 6 (silver wire). The meter should show around 1kΩ.



To test that the pot in the PT5A is working correctly place the probes on pin 2 (white wire) and Pin 4 (Blue or red wire) and extend the cable from the PT5A. The meter reading should slowly drop from its initial reading of approximately 1kΩ.



Place the probes on Pin 4 (Blue or red wire) and pin 6 (Silver wire) and extend the cable from the PT5A. The meter reading should slowly rise from its initial reading of approximately 0k Ω .



If any of these tests fail contact Fitness Technology for further advice.