

Ranger Instruments 0080 Test Procedure.

Document 0080-850 Rev1.0.

Equipment:

To test a 0080 you will need a PC running Windows 95 or greater, a 12VDC power supply with suitable connector, the current version of the test software 0080-500 – located on R: and through the handover system – and finally the test jig TE-107.

Method:

1. Plug the female end of the test jig cable into a serial com port on the PC.
2. Install the first unit to test onto the jig, apply 12V power to it and plug the loopback into the unit.
3. Double click the icon for the test software to start it. When the program has started click the start button to begin the test.
4. For the first test you will be prompted to select the port the test jig is connected to. Select the correct port, com1 or com2, from the pull down menu and click OK.
5. If you selected the wrong port or get an error exit the test software, choose File|Exit, check the jig is plugged in and try the above steps again.
6. If the port selected is correct a dialog box will appear asking about the state of the indicator light on the back of the loopback plug. Answer these questions by clicking either yes or no depending on the state of the LED.
7. After the test is complete the result will be displayed in a green box for passed or a red one for failed. If the unit passed mark it with a green label and set aside for the next stage. Any units that fail are to be marked with a red dot and kept aside for inspection and repair.
8. If you wish to test another unit install it in the jig and click yes when asked if you would like to test another. Repeat steps 6,7 and 8 for as many units as necessary.
9. When you are finished testing click no at step 8. The results of all the tests run during the session are displayed in the small text window of the program. The number of tests run and the failure rate is shown in the bottom status bar.
10. To exit the program click the close box in the upper right hand corner or choose File|Exit. To resume testing you can click the start button again and continue following steps 6,7 and 8.
11. To obtain the version information choose File|About. This box also contains information about the loopback plug needed for the tests. More detailed information can be found on the handover system in the 0080 area in document 0080-101.