Receiver Self-Test



Materials	2
Configuration file (Self-Test)	3
Magnetic Channels testers	4
Electric Channels Tester	. 5
GPS connection	6
Battery connection	7
Start Test	8
Field QC in EMpower	9
Acceptance Report	10
Technical Support Contact	11

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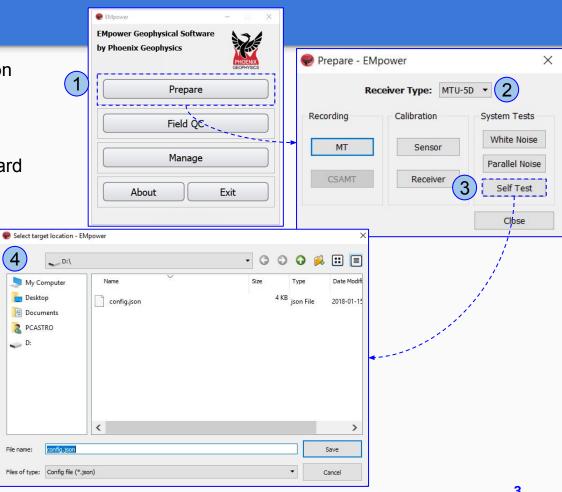
Materials



Qty	Description
1	Computer with an EMpower license and SD card reader
1	SD card
1	Receiver under test
3	Magnetic channels test jig
1	GPS antenna and tripod assembly
1	GPS signal cable, GPS antenna to receiver
1	Self Test Jig
5	Test lead Banana to Banana 2 Black, 2 Red, and 1 Yellow
1	12V cable, Battery to Receiver
1	12V Battery

Configuration file (Self-Test)

- 1. Open EMpower and click the **Prepare** button
- 2. Select the Receiver Type
- 3. Click the **Self-Test** button
- **4.** Insert the **SD card** in the computer's SD card slot or use a USB memory card reader.
 - Click File menu / Save or Ctrl+S
 (see the user manual)

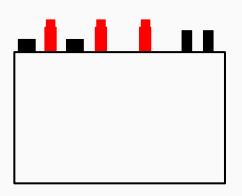


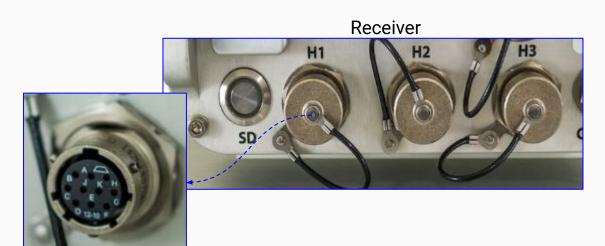
Magnetic Channels testers

Connect the magnetic channels testers to each magnetic channel of the receiver (H1, H2, H3)



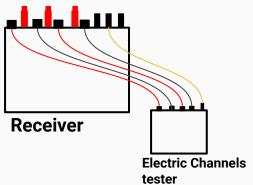






Electric Channels tester

- 1. Use the Black wires to connect South-South and West-West
- 2. Use the Red wires to connect North-North and East-East
- **3.** Use the Yellow wire to connect the Ground connectors





12V

GPS connection

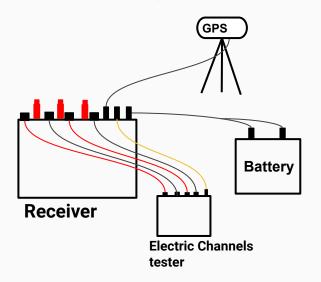
- 1. Assemble the GPS antenna with the tripod
- 2. Connect the GPS cable from the GPS antenna

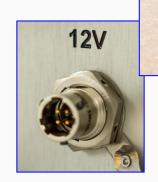


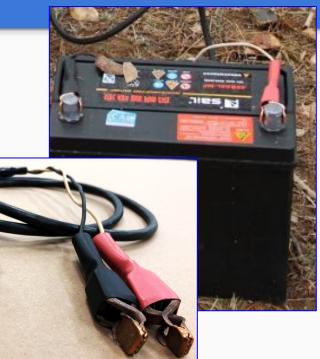
12V

Battery connection

Use the battery cable to connect the MTU-5C receiver to the battery



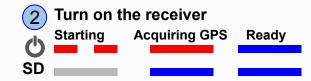




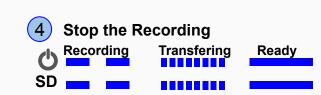
Start Test

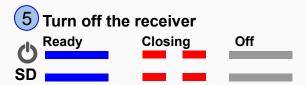
- 1. Insert the SD Card into the receiver
- **2.** Press the Power button briefly
 - Wait until the receiver is ready to record
- **3.** To start the recording press the Power button briefly
- **4.** After 5 minutes, stop the recording by pressing the **Power** button briefly and releasing it
- **5.** To turn off the receiver press the Power button for 3sec and release it





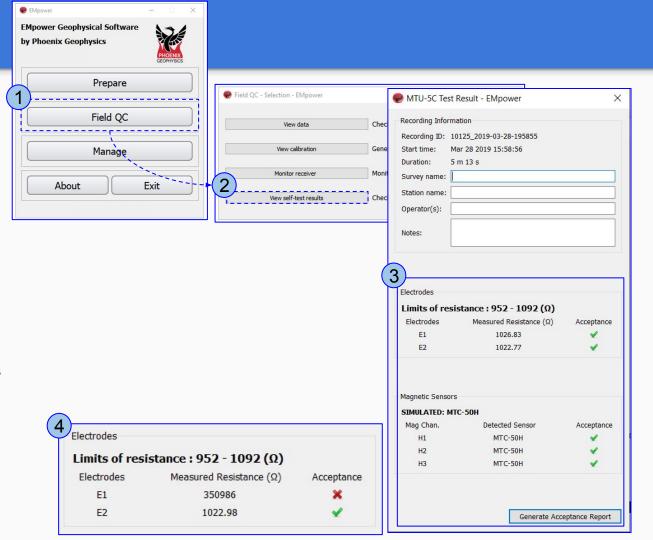






Field QC in EMpower

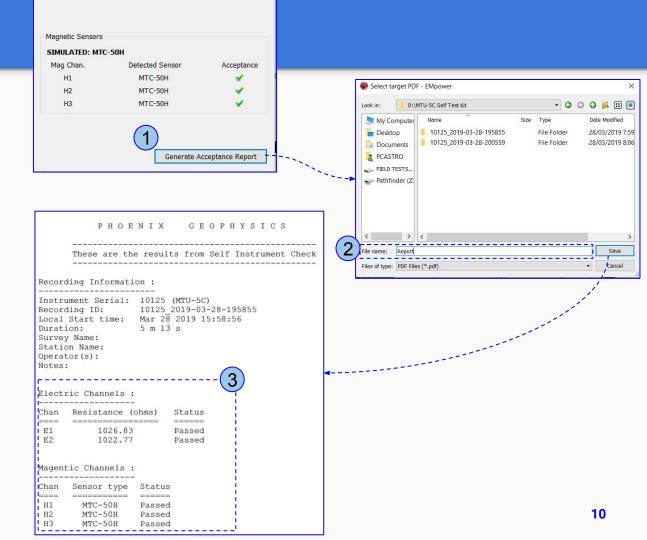
- Open the Field QC module in EMpower
- 2. Select View self-test results
- **3.** Review the results, there should be green check marks for every channel
- 4. If the Acceptance result shows a red cross *
 - Check the connections and repeat the test
 - If the receiver repeats the same result, contact Phoenix Geophysics for support (see the last page)



Acceptance Report

To export the report:

- 1. Click the Generate Acceptance Report button
- 2. Type the file name (PDF file) and Save
- 3. Review the Acceptance Report



Technical Support Contact



Please check out the <u>FAQs</u>
https://phoenixgeophysics.freshdesk.com/
Or email us at: support@phoenix-geophysics.com