Battery Ball construction record for NSF with Commoning Board

Operator: KAT  Date: 03-Mar-2014  Ball S/N: 7266  OBS S/N: 501

Cables

Electronics

item S/N  type  Batteries S/N  voltage

BB2, 5 main quads, optional backup release

Cable Eye OK  ☑️
Connect cables:
  3-wire penetrator
  4-wire penetrator  ☑️
  8-wire penetrator  ☑️

Do not connect:
  Edgetech flylead
  4-wire cable
  6-wire cable

Edgetech  57  D2/07/04  recovery address set (vbxx)
  OBS recovery  1073  14-260  Edgetech RX (13kHz)
Comm Board  14-261
  D2/04/06  14-262
  D2/04/06  14-263
  D2/04/06  14-264

P2, 1-4  14.66V  burn circuit resistance (<1 ohm)
P2, 3-6  14.65V  burnwire voltage

disable Edgetech
voltagess on all 8 penetrator pins

OK to seal  ☑️

If Edgetech not installed, skip fields in grey italics

BB_construction_record_NSF_9quad_CB.xlsx  2014-02-25
OBS Main Quad Battery Testing: S/N 14-26e Battery Pack Model: TLP-94131/D/OB1A

Experiment: ENAM Operator: DLD Date: 7-5-2014

Setup:

☐ Plug fixture USB cable into PC. (See ARD label on USB port on the PC) Allow the fixture to run through the first test to end before starting. This is only for the initial setup.

☐ Connect an external power supply to the Red and BLK banana plugs on the test fixture. Observe polarity. Red is positive, BLK is negative (or ground). Set power supply to +20V.

Test:

☐ Before plugging battery in the fixture, ensure that the connector on the battery is wired correctly.

Should look like this:

☐ Plug the OBS Main Quad Adapter cable in the battery to be tested.

☐ Start obsterm in command window from the appropriate experiments directory using the command structure as shown below in red where nnn is the battery under test serial number.

obsterm.py -d00 -p3 -Fbatt_2014_nnn.txt

Record the voltages that are displayed on the screen into the appropriate box below.

BATTERY LOAD TEST

| Quiescent voltage: | 14.98 |
| Loaded voltage:    | 14.13 |

DIODE LEAKAGE TEST

| Diode HIGH voltage: | 20.57 |
| Diode LOW voltage:  | 20.55 |
| Diode Difference voltage: | 0.02 |

☐ Unplug battery under test. Test complete.

☐ To continue testing, type clt-x, Y, then hit ↑ cursor arrow. Enter new serial number for next battery and press ENTER.
OBS Main Quad Battery Testing: S/N 114-261  Battery Pack Model: TLP-94131/D/OB1A
Experiment: ENAM  Operator: DOD  Date: 24-Fe-14

Setup:

☑ Plug fixture USB cable into PC. (See ARD label on USB port on the PC) Allow the fixture to run through the first test to end before starting. This is only for the initial setup.

☑ Connect an external power supply to the Red and BLK banana plugs on the test fixture. Observe polarity. Red is positive, BLK is negative (or ground). Set power supply to +20V.

Test:

☑ Before plugging battery in the fixture, ensure that the connector on the battery is wired correctly.

Should look like this:

☑ Plug the OBS Main Quad Adapter cable in the battery to be tested.

☑ Start obsterm in command window from the appropriate experiments directory using the command structure as shown below in red where nnn is the battery under test serial number.

obsterm.py -d00 -p3 -Fbatt_2014_nnn.txt

Record the voltages that are displayed on the screen into the appropriate box below.

BATTERY LOAD TEST

<table>
<thead>
<tr>
<th>Quiescent voltage:</th>
<th>14.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loaded voltage:</td>
<td>14.09</td>
</tr>
</tbody>
</table>

DIODE LEAKAGE TEST

<table>
<thead>
<tr>
<th>Diode HIGH voltage:</th>
<th>20.59</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diode LOW voltage:</td>
<td>20.55</td>
</tr>
<tr>
<td>Diode Difference voltage:</td>
<td>0.04</td>
</tr>
</tbody>
</table>

☑ Unplug battery under test. Test complete.

☑ To continue testing, type clt-x, y, then hit ↑ cursor arrow. Enter new serial number for next battery and press ENTER.
Setup:

- Plug fixture USB cable into PC. (See ARD label on USB port on the PC) Allow the fixture to run through the first test to end before starting. This is only for the initial setup.

- Connect an external power supply to the Red and BLK banana plugs on the test fixture. Observe polarity. Red is positive, BLK is negative (or ground). Set power supply to +20V.

Test:

- Before plugging battery in the fixture, ensure that the connector on the battery is wired correctly. Should look like this:

- Plug the OBS Main Quad Adapter cable in the battery to be tested.

- Start obsterm in command window from the appropriate experiments directory using the command structure as shown below in red where nnn is the battery under test serial number.

  obsterm.py -d00 -p3 -Fbatt_2014_nnn.txt

Record the voltages that are displayed on the screen into the appropriate box below.

**BATTERY LOAD TEST**

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<tr>
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</tr>
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<tbody>
<tr>
<td>Loaded voltage:</td>
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**DIODE LEAKAGE TEST**

<table>
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<tr>
<th>Diode HIGH voltage:</th>
<th>20.57</th>
</tr>
</thead>
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<tr>
<td>Diode LOW voltage:</td>
<td>20.57</td>
</tr>
<tr>
<td>Diode Difference voltage:</td>
<td>0.00</td>
</tr>
</tbody>
</table>

- Unplug battery under test. Test complete.

- To continue testing, type clt-x, Y, then hit ↑ cursor arrow. Enter new serial number for next battery and press ENTER.

R:\usr\seismics\obs\battery\Battery_Pack_Checksheets\OBS Main Quad Battery Automated Testing_Rev_0_using_OBSTERM.docx
OBS Main Quad Battery Testing: S/N 14-263  Battery Pack Model: TLP-94131/D/0B1A

Experiment: ENAm  Operator: DLD  Date: 26 Feb 2014

Setup:

☐ Plug fixture USB cable into PC. (See ARD label on USB port on the PC) Allow the fixture to run through the first test to end before starting. This is only for the initial setup.

☐ Connect an external power supply to the Red and BLK banana plugs on the test fixture. Observe polarity. Red is positive, BLK is negative (or ground). Set power supply to ±20V.

Test:

☐ Before plugging battery in the fixture, ensure that the connector on the battery is wired correctly.

Should look like this:

☐ Plug the OBS Main Quad Adapter cable in the battery to be tested.

☐ Start obterm in command window from the appropriate experiments directory using the command structure as shown below in red where nnn is the battery under test serial number.

obterm.py -d00 -p3 -Fbatt_2014_nnn.txt

Record the voltages that are displayed on the screen into the appropriate box below.

BATTERY LOAD TEST

| Quiescent voltage: | 14.98 |
| Loaded voltage:    | 14.13 |

DIODE LEAKAGE TEST

| Diode HIGH voltage: | 20.59 |
| Diode LOW voltage:  | 20.55 |
| Diode Difference voltage: | 0.04 |

☑ Unplug battery under test. Test complete.

☑ To continue testing, type clt-x, y, then hit ↑ cursor arrow. Enter new serial number for next battery and press ENTER.

R:\usr\seismics\obs\battery\Battery_Pack_Checksheets\OBS Main Quad Battery Automated Testing_Rev_B_using_OBSTEM.docx
OBS Main Quad Battery Testing: S/N 14-264  Battery Pack Model: TLP-94131/D/OB1A

Experiment: ENM  Operator: DL  Date: 26 Feb 2014

Setup:

☑ Plug fixture USB cable into PC. (See ARD label on USB port on the PC) Allow the fixture to run through the first test to end before starting. This is only for the initial setup.

☑ Connect an external power supply to the Red and BLK banana plugs on the test fixture. Observe polarity. Red is positive, BLK is negative (or ground). Set power supply to +20V.

Test:

☑ Before plugging battery in the fixture, ensure that the connector on the battery is wired correctly.

Should look like this:

☑ Plug the OBS Main Quad Adapter cable in the battery to be tested.

☑ Start obsterm in command window from the appropriate experiments directory using the command structure as shown below in red where nnn is the battery under test serial number.

obsterm.py -d00 -p3 -Fbatt_2014_nnn.txt

Record the voltages that are displayed on the screen into the appropriate box below.

BATTERY LOAD TEST

| Quiescent voltage: | 14.98 |
| Loaded voltage:    | 14.13 |

DIODE LEAKAGE TEST

| Diode HIGH voltage: | 20.66 |
| Diode LOW voltage:  | 20.61 |
| Diode Difference voltage: | 0.04 |

☑ Unplug battery under test. Test complete.

☑ To continue testing, type clt-x, y, then hit ↑ cursor arrow. Enter new serial number for next battery and press ENTER.