

# Battery Ball construction record for NSF with Commoning Board

Operator  Date  Ball S/N  OBS S/N

Cables		Electronics		Batteries		Operation		
item	Date	item	S/N	type	S/N	voltage		
Cable Eye OK	<input checked="" type="checkbox"/>	Edgetech		D2/07/04			recovery address set (vbxx)	<input checked="" type="checkbox"/>
Connect cables:		OBS recovery	57	D2/04/06	14-260		Edgetech RX (13kHz)	<input type="checkbox"/>
3-wire penetrator	<input type="checkbox"/>	Comm Board	1073	D2/04/06	14-261		Edgetech RX changed?	<input type="checkbox"/>
4-wire penetrator	<input type="checkbox"/>			D2/04/06	14-262		initial ping	<input type="checkbox"/>
8-wire penetrator	<input checked="" type="checkbox"/>			D2/04/06	14-263		burn circuit resistance (<1 ohm)	<input type="checkbox"/>
Do not connect:				D2/04/06	14-264		burnwire voltage	<input type="checkbox"/>
Edgetech flylead				P2, 1-4		14.66V	disable Edgetech	<input type="checkbox"/>
4-wire cable				P2, 3-6		14.65V	voltages on all 8 penetrator pins	<input checked="" type="checkbox"/>
6-wire cable								<input checked="" type="checkbox"/>
							OK to seal	<input checked="" type="checkbox"/>

## BB2, 5 main quads, optional backup release

*If Edgetech not installed, skip fields in grey italics*

OBS Main Quad Battery Testing: S/N 14-260 Battery Pack Model: TLP-94131/D/OB1A

Experiment: ENAM Operator: DLD Date: 26 Feb 2014

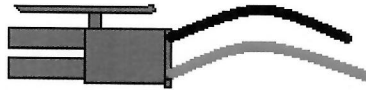
Setup:

- 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 *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 14-261 Battery Pack Model: TLP-94131/D/OB1A

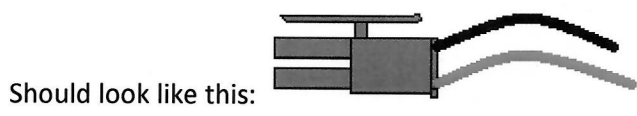
Experiment: ENAM Operator: DCD Date: 26 Feb 2014

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.



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

```
obstern.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:	14.95
Loaded voltage:	14.09

**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  $\uparrow$  cursor arrow. Enter new serial number for next battery and press ENTER.

OBS Main Quad Battery Testing: S/N 14-262 Battery Pack Model: TLP-94131/D/OB1A

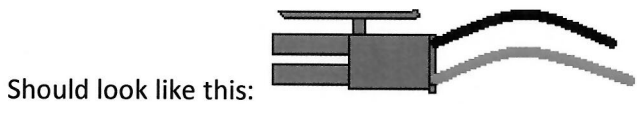
Experiment: ENAM Operator: DLD Date: 26 Feb 2014

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.



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

```
obstern.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:	14.95
Loaded voltage:	14.11

**DIODE LEAKAGE TEST**

Diode HIGH voltage:	20.57
Diode LOW voltage:	20.57
Diode Difference voltage:	0.00

- Unplug battery under test. Test complete.
- To continue testing, type *clt-x, Y*, then hit  $\uparrow$  cursor arrow. Enter new serial number for next battery and press ENTER.

OBS Main Quad Battery Testing: S/N 14-263 Battery Pack Model: TLP-94131/D/OB1A

Experiment: ENAM Operator: DLD Date: 26 Feb 2014

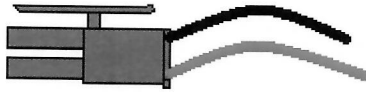
Setup:

- 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 *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:	20.59
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  $\uparrow$  cursor arrow. Enter new serial number for next battery and press **ENTER**.

OBS Main Quad Battery Testing: S/N 14-264 Battery Pack Model: TLP-94131/D/OB1A

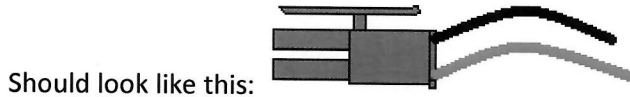
Experiment: ENAM Operator: DLD Date: 26 Feb 2014

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.



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

```
obstern.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`.