Jakobshavn 2006-7
GPS/ Seismic Housing Box Deployment Instructions

A. Packing List

1. Shipped in the Housing Box:

CIRCUIT BOARD W/ CHARGE CONTROLLER
CAMERA POWER BULKHEAD CABLE
SOLAR POWER BULKHEAD CABLE
GEOPHONE SENSOR BULKHEAD CABLE
TIMING ANTENNA BULKHEAD CABLE
GPS RECEIVER (R7) ANTENNA BULKHEAD CABLE
GPS RECEIVER (R7) POWER BULKHEAD CABLE
SEISMIC LOGGER (Q330) POWER CABLE
BATTERY-TO-CIRCUIT BOARD POWER CABLES (+ AND -)
EXTRA BATTERY JUMPER SET (+ AND -)
SMALL SCREW DRIVER

Note: All internal bulkhead cables will be attached to bulkhead ports. Power cables are attached to circuit board terminals.

2. Shipped in gray PASAL Hardigg Boxes:

Q330 SEISMIC LOGGER
SEISMIC BAILER UNIT
QNET CABLE
CLIEO Q330 INTERFACE (BLUE BAG)
L28 GEOPHONE W/ CABLE
TIMING ANTENNA W/ CABLE

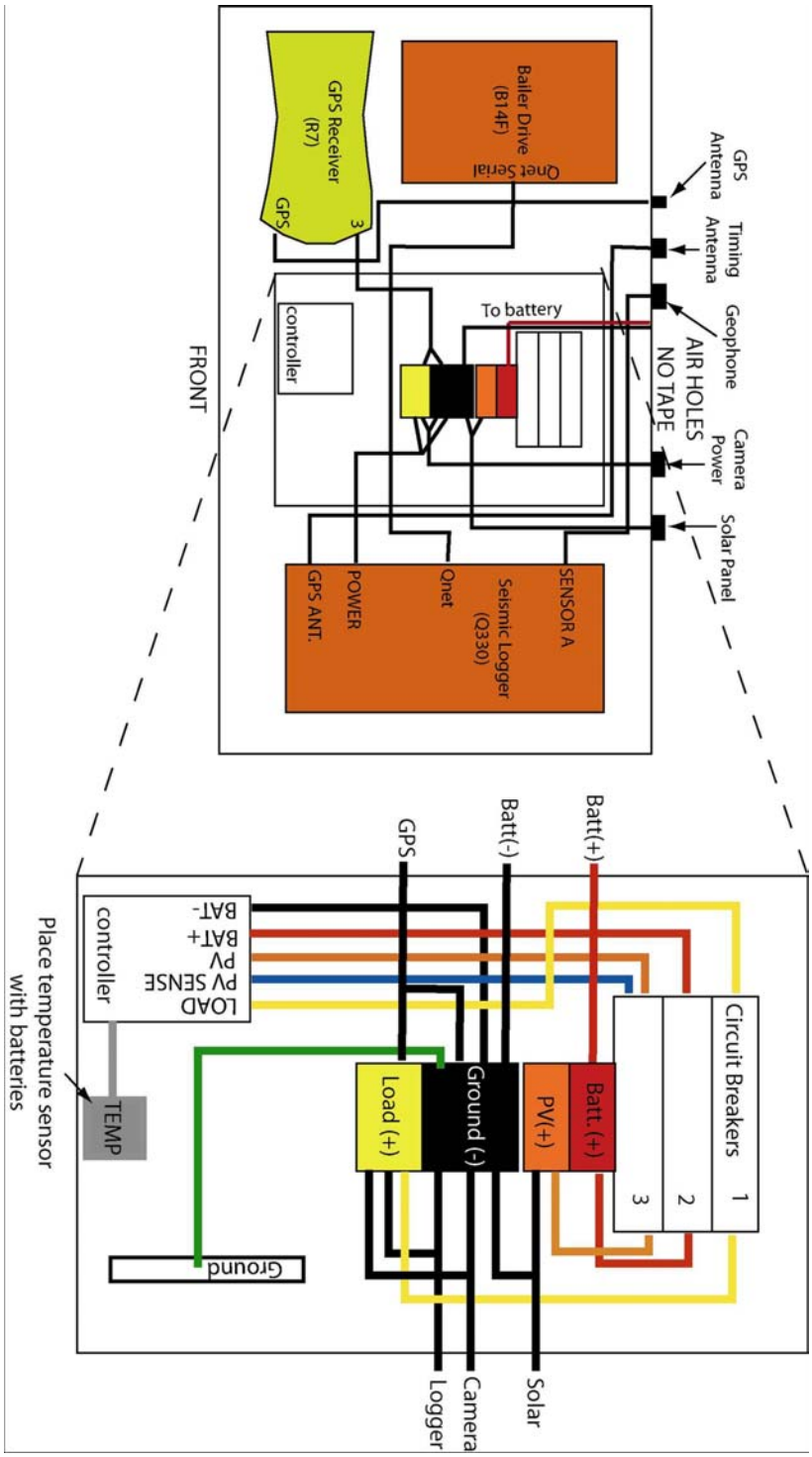
3. Shipped in yellow Trimble Pelican Case:

R7 RECEIVER
GPS ANTENNA CABLE
GPS ANTENNA

4. Solar Panel:

50-WATT SOLAR PANEL AND 5M CABLE
PVC SLEAVE
2 U-BOLTS

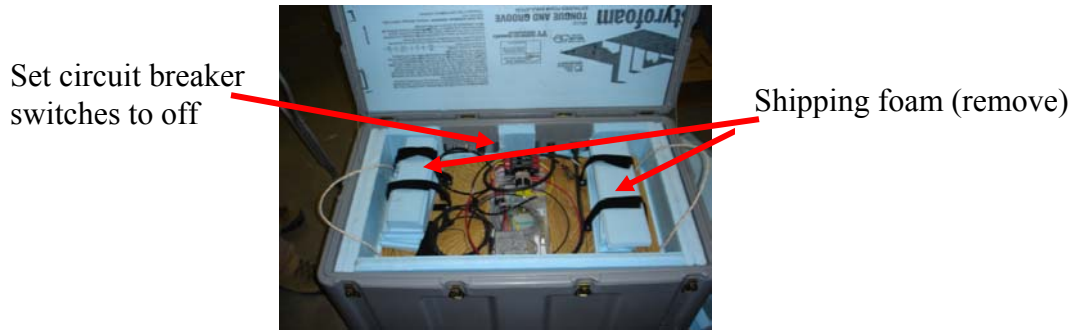
B. Housing Box Diagram



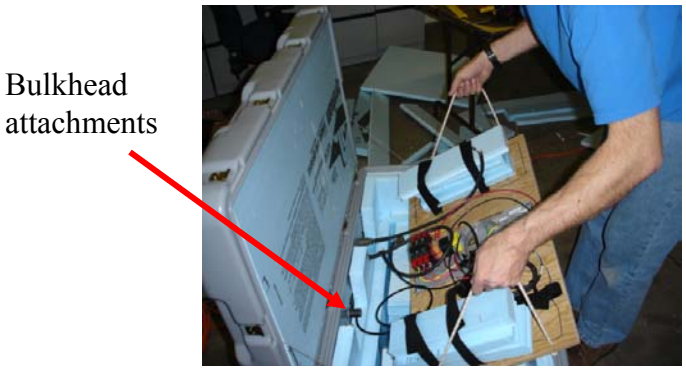
C. Box Set-Up Instructions

1. Position box near where it will be anchored and open it up. If it's raining or snowing you will need to set up a tent to prevent shorts.

2. Open the box and remove the shipping foam from the Velcro straps. MAKE SURE CIRCUIT BREAKER SWITCHES ARE SET TO OFF!!!



3. Remove wood platform using rope handles. Be careful not to damage the bulkhead attachment cables on the rear wall of the box.



4. Insert battery(ies) into foam casing and attach ring wires from circuit board to battery (red +, black -)

5. Place Temperature sensor next to battery

6. Replace platform, making sure battery power and temperature sensor cables run through notch in back.

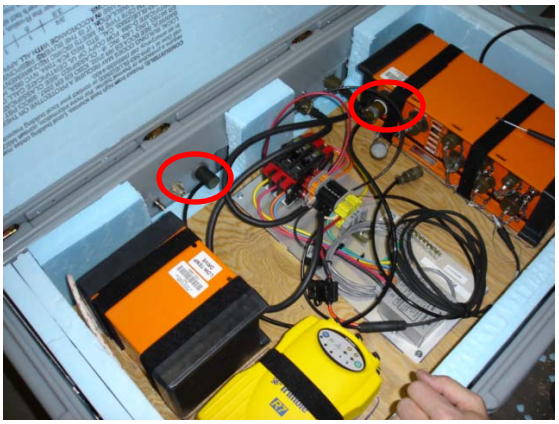
7. Remove foam pieces from above bulkhead connectors (so you can reach them). *(note foam already removed in previous pictures)*

8. Strap seismic logger (Q330), bailer and GPS Receiver to board in marked locations. Make sure Velcro straps are tight.

9. Attach SOLAR bulkhead cable end (bare wires) to circuit board. White end goes into orange (SOLAR) screw terminal, Black end into goes into black (GROUND) screw terminal.

10. Attach camera bulkhead cable end (bare wires) to circuit boards. White end goes into yellow (LOAD) screw terminal, Black end into black (GROUND) screw terminal.

11. Connect geophone bulkhead cable (SEISMIC SENSOR) to SENSOR A port on seismic logger (Q330).



12. Connect timing antenna (TIMING-GPS ANT.) bulkhead cable to GPS ANT. port on seismic logger (Q330).

13. Connect GPS receiver antenna (GPS ANTENNA) bulkhead cable to GPS port on GPS RECEIVER (R7).

14. Connect Q330 power cable (Q330 POWER) to POWER port on seismic logger (Q330)

15. Connect Qnet cable (shipped in PASCAL HARDIGG) to Qnet port on the seismic logger (Q330) and the Qnet Serial port on the bailer. Cable is symmetric.

16. Connect GPS power cable (GPS POWER) to port 2 or 3 on the GPS Reciver (R7). Make sure to line red dots up before pressing in.

17. Connect external components to bulkhead ports.

18. Turn on all circuit breaker switches.

19. Perform Q330 diagnostics (see PASCAL instructions).

20. Make sure light on GPS receiver is blinking.

21. Replace foam pieces above bulkhead connectors.

22. Close box. Seal lid with tape except where marked in back (air holes for gas release).

23. Run anchor conduit through handle to secure box to antenna stand.