



## OCEAN TREK RESEARCH™ OTR-200 Operating Instructions

The Ocean Trek Research 200 series buoy is shipped with the following items:

1. OTR-200 Buoy
2. Red Plug - Magnetic
3. Yellow Plug
4. Battery charger (optional)
5. Serial interface cable (optional)
6. Drogue attachment point (optional)
7. Tether bridle (optional)

Upon receipt, please inspect the package for the above items as listed on the packing slip. Ocean Trek buoys are built to withstand the rigors of ocean deployment and should easily survive the harshest shipping methods but careful inspection of the buoy upon receipt will ensure that the product you have purchased is received in the condition that it left the factory in. Please contact OTR and/or your shipping courier if there is damage or missing parts.

The OTR-200 is shipped in the deactivated condition. To activate the buoy, simply unscrew and remove the **Red Plastic Plug** located on the buoy top and replace it with the **Yellow Plastic Plug**. This essentially removes a magnet and allows an internal switch to close, thus turning the buoy on. Immediately upon removal of the **Red Plug**, the high intensity white LED will flash for a period of 10 seconds. This indicates that the buoy has been activated and is starting its search for both GPS and INMARSAT satellites. The LED will turn itself off after 10 seconds giving no further indication of the buoys operational status. Place the buoy outdoors in a location with a clear view of the southern sky; it will acquire a GPS position and send its first position report before it automatically goes into the programmed application. You should expect to see a message delivered to your "Inbox" within 15 minutes confirming that the buoy is operating correctly and ready for deployment. If you do not have the capability of confirming the status via email, you can assume that the buoy is working correctly after the light flashes for 10 seconds. Every buoy is given a final operational test before it leaves the factory.



Figure 1 - Deactivated Buoy

Before deploying the buoy, please check to assure that the:

- **Yellow Plug** is installed and not the Red Plug. Tighten this plug down securely. The buoy can be deployed without the **Yellow Plug** but the plug serves as a visual indication that the buoy is active as well as keeping the plug receptacle clean.
- **Connector Cap** is secure in place. This cap should never be removed unless there is need for external battery charging or communicating with the buoy via a computer.

The buoy top has four attachment points where an Ocean Trek Research or customer supplied bridle may be connected. If the buoy was ordered with the drogue attachment option, there will be an attachment hole added to the bottom of the buoy.