

QUANTUM HBO ADAPTER

INSTRUCTIONS

The HBO Adapter may be used to connect the Quantum Ham Battery to many types of portable communication (and other) equipment that operate on 12 VDC. The maximum continuous current drain must be 3A or less. An automatic circuit breaker in the Quantum Ham Battery will open at higher currents. **SEE CAUTION NOTES AT THE END OF THE INSTRUCTIONS!!!**

For connection to a Handi-Talkie, the HBO may be wired to an empty battery compartment which is compatible with your Handi-Talkie. Most major brands offer a battery case for use with alkaline AA or AAA cells. These are ideal.

INSTALLATION INSTRUCTIONS - for wiring to an empty battery case:

1. Drill a 7/16 diameter hole in the battery case.
2. Slip the black strain relief, shoulder side first, onto the unconnected side of the HBO power cord.
3. Insert cable into hole drilled in step 1. **DO NOT INSERT STRAIN RELIEF INTO THE CASE, AT THIS TIME.**
4. Locate the battery connections in the module which go to the HT's connections. Mark the positive terminal. **SEE WARNING AT THE END OF THE INSTRUCTIONS.**
5. An R-F bypass capacitor and insulation tubing is enclosed. We recommend connecting the capacitor across the +/- terminals inside the adapter case. See step 6 and 7.
6. Solder the red HBO wire and one end of the capacitor to the positive (+) terminal located in step 4.
7. Solder the clear (Natural) or Black color wire and the other end of the capacitor to the negative (-) terminal located in step 4.
8. Insert the strain relief into the case hole ensuring that at least 1/2" of outer cable jacket extends beyond the strain relief.
9. Place the tie strap around the HBO cable, inside the case, right against the strain relief. Tighten securely. Cut off excess strap.
10. With an ohm or continuity checker, verify there is **NO** connection between the center pin and outside shell of the HBO Adapter plug.
11. As in step 10, verify there **IS** connection (less than 1 ohm) between the center pin of the plug and the **POSITIVE (+)** connection to the HT.
12. As in step 11, verify there **IS** connection (less than 1 ohm) between the outside shell of the plug and the **NEGATIVE (-)** connection to the HT.

CAUTION - We do not recommend wiring the HBO into the power (or recharge) jack of your equipment. Doing so may damage your HT or attached battery pack.

CAUTION - Before using the HBO, verify with the manufacturer that your HT is rated to work on 13.4 VDC

(freshly charged battery). If necessary you may call us with any questions.

WARNING - It is essential that this cable be connected with the correct polarity. Reversing these leads could damage your HT. Quantum Instruments will not be responsible for ANY damage due to incorrect connections or HT operation which exceeds the manufacturer's recommended operating voltage or duty cycle.