Operation Instructions for the RCS-13 Smart Battery Charger

The RCS-13 smart charger is a universal-input, lead-acid battery charger for rapid charging of the RB-6V batteries used in various Ocean Technology Systems (OTS) communications products, such as the Aquacom® MK2-DCI surface intercom, the Aquacom® STX series of surface transceivers, and the Magnacom® MAG-1001S surface transceiver. By following the simple instructions provided here, you should experience long-term, trouble-free use of your RCS-13 charger.

The RCS-13 charger consists of the charging module and power output cord as one unit (Fig. 1). The power output connectors are mini banana connectors. A power input cord is provided with your choice of plugs depending on the region of the world where the charger will be used.

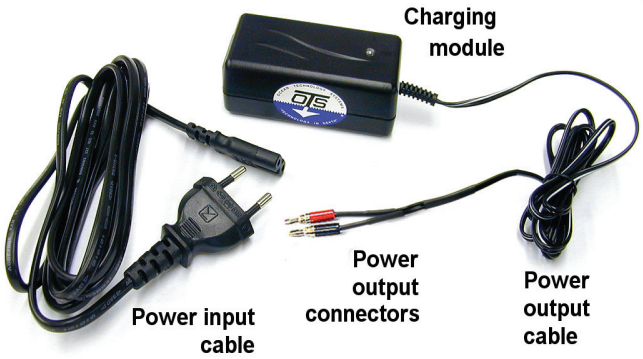

***Figure 1*: Charging unit and power input cord**

OPERATION

1. Connect the *power output connectors* (mini banana plugs) (Fig. 1) to the communications unit ***as described on the back of this instruction sheet.***
2. Connect the *power input connector* to the *charging module* and the *power input plug* to the AC source.
3. Once the connections are made, the charger will determine the battery condition before starting to charge the battery. The LED on the *charging module* indicates the charging status (Table 1).

   If the battery does not hold a charge after repeated charging attempts, the battery may need replacement. (Replacement RB-6V batteries are available from OTS or your local dealer.)
4. When the LED indicates "standby/ready" status (Table 1), charging is complete. Unplug the charger from the AC power source and the battery or communications unit.

***Table 1*: Charging status as indicated by LED**

LED	Mode
Green	No battery connected
Red	Fast charge cycle
Red	Top-off charge cycle, constant voltage
Green	Standby/Ready (charge cycle complete)

IMPORTANT SAFETY NOTES

1. ***Do not attempt to charge alkaline or other non-rechargeable batteries. Doing so may damage the batteries and the charger.***
2. ***Keep the charger away from water and dust.***
3. ***The charger should remain uncovered and properly ventilated while in use.***
4. ***Use the charger only with the batteries for which it was intended. If you have any questions about the batteries with which the RCS-13 should be used, contact us.***

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MAG-1001S AND STX-101 UNITS: .We recommend the connection first be made between the panel's 12-volt Power/CHG jack (Figure 3; ***see arrow***) and the RCS-13 charger. Then plug the charger into your power source. Charging time for a depleted battery is 3–5 hours. You do not need to remove the front panel to charge the batteries.

Anytime you charge the batteries, open the front panel's "Battery Charging Relief Valve." Leave it open and do not operate the MAG-1001S or STX-101 unit for at least 15 minutes after charging, to give the system time to dissipate any gasses released from the batteries during charging. After charging is complete, close the "Battery Charging Relief Valve."

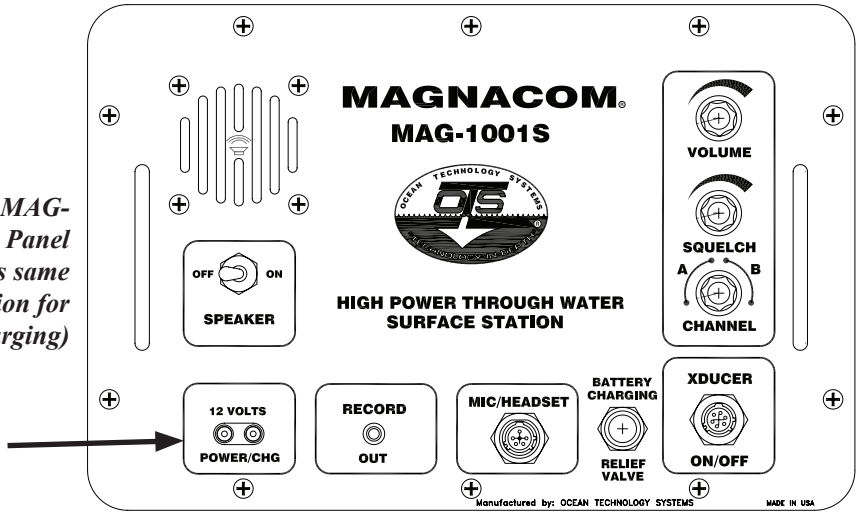

Figure 3: MAG-1001S Front Panel (STX-101 is same configuration for charging)

MK2-DCI: To recharge the RB-6V batteries, you need not remove them from the MK2-DCI. Just connect the RCS-13 universal smart battery charger to the front-panel *12-volt external power jack* (Figure 4; ***see arrow***). Then connect the charger's power plug to any 90-260–volt, 60-cycle power outlet. Do not use unit for 20 minutes after charging is complete, to give the system time to dissipate any gasses released (as in the MAG-1001S and STX-101 shown above).

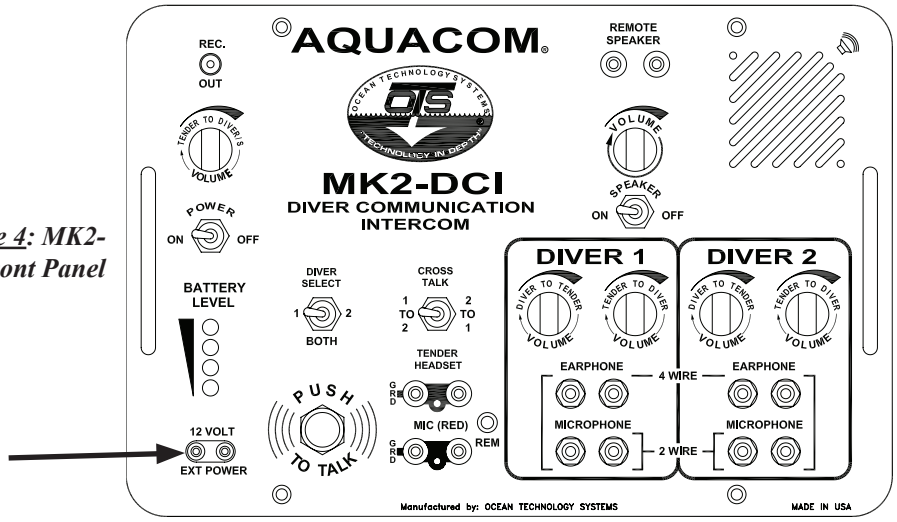

Figure 4: MK2-DCI Front Panel