

US EPA ARCHIVE DOCUMENT

OTS Wireless Comm SOP - [EPA Region 10 Dive Team](#)

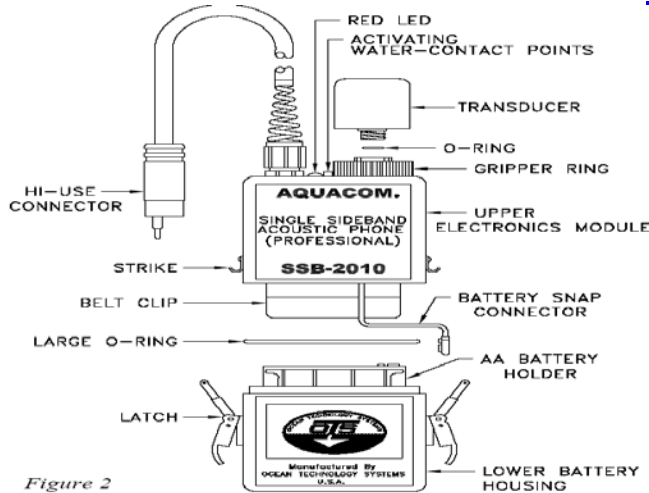


Figure 2

This standard operating procedure (SOP) check sheet is for EPA Region 10 dive team use only. Refer to the user's manual for complete details on the Aquacom SSB 1000.

Dive Preparation:

1. Charge NiMH battery packs several days before they are needed.
2. Ensure that you have one set of battery packs for the units (3) plus spares (3) for a total of **six battery packs**.
3. The 70W Mag unit battery backs hold 10 AA cells each. The older 10W units hold 8 AA cells.
4. Store full batteries in the units, **CONNECTED**, and **TESTED** the day before the dives. Batteries will not drain so long as the units are not 1) submerged or 2) connected to the transducer cable.
5. Standard settings: **VOX on, PTT off, SQUELCH off** (on limits noise and range), **SIDE AUDIO low** (your voice volume when transmitting), **RECEIVE low** (others talking to you), **CHANNEL 1**.

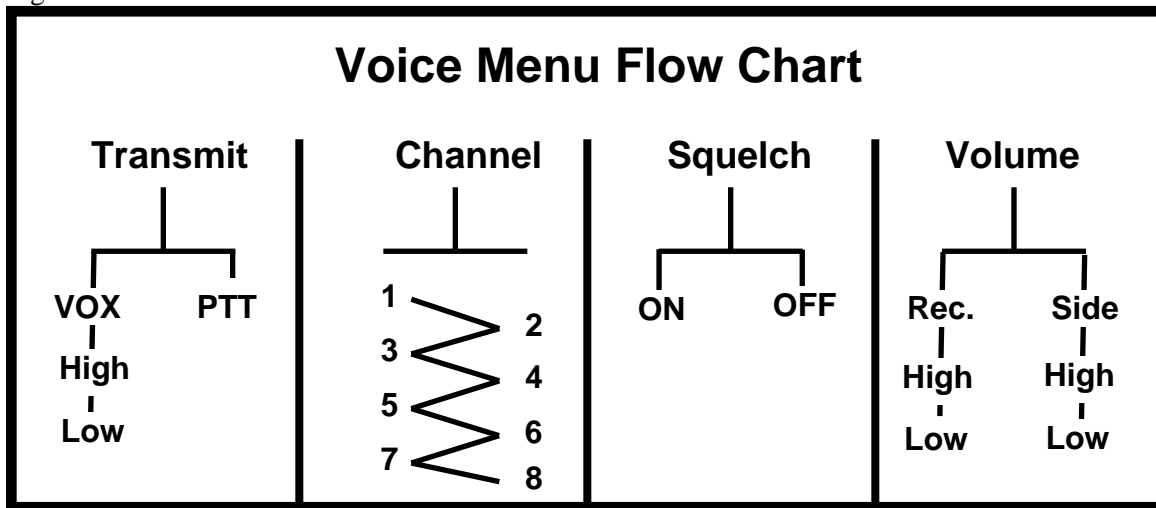
On the boat & the briefing:

1. Locate the tenders' transducer below the hull, but **MEASURE** the length of the transducer cable carefully such that it cannot reach the prop while underway. **TIE** off the cable to the platform once this has been measured.
2. Use freshly charged NimH batteries **each day**. Most batteries (up to 2500 mAh capacity) will only last for 4-6 dives of use.

Operation of 10W Comm. Units:

1. The red light will be on when the unit is on. For diver units they will need to be SUBMERGED. For the surface unit, the 3 LEAD transducer must be used to force the unit on above water.
2. The red light will **flash** [when on] to indicate LOW BATTERY.
3. 3 PUSHES (*within one second*) repeats your CURRENT SETTINGS.
4. 2 PUSHES takes you into (or out of) the menu to CHANGE SETTINGS.
5. 1 PUSH CHANGES to the setting just announced.

Figure: Voice Menu Flow Chart for 10W wireless units



Operation of 70 W Mag Comm. Units:

1. 3 PUSHES changes from PTT to VOX (no other adjustments).
2. You must submerge to turn the unit on.
3. Flashing light means battery is LOW.

General Operation Instructions:

1. All divers shall operate on channel 1 if the SSB 3000 surface station is being used (it operates on channel 1 only).
2. PRIMARY channel is **ONE**.

Before diving

1. Check that the unit is mounted in as **unobstructed** a location as possible. The Black Diamond BCD tank strap will be used if possible.
2. Check comm. Unit to AGA **connection**.
3. Verify unit operation by wetting your fingers and touching the contacts on the top of the unit or using a wet paper towel. **Is the light on?**
4. Check that the transducer is **tightened** (marks aligned) so it does not come off while in the water. **Do not turn the transducer--use gripper ring.**

Cleanup

1. The comm. unit as well as the AGA FFM, ema2 ear/mike assembly shall be **soaked in freshwater** after each day of use.
2. After use, **clean, silicone** and replace the battery housing and transducer O-rings IF NEEDED.
3. **Clean** the transducers with an **alcohol** wipe to improve function IF NEEDED.
4. Push (actively tap) the PTT button to **release water** once the FFM has been cleaned.
5. Store once dry.

Speaking /listening tips:

1. Speak **slowly** and with as few words as possible. Especially true if using VOX.
2. Make about 1 second of sound **before** beginning your communication. Especially true if using VOX.
3. **Designate** one diver that will primarily communicate with the surface.
4. Listen while inhaling, speak while exhaling.
5. Use **“over”** if you would like a response, **“out”** if no response required at the end of each communication. Ask the surface to **“standby”** if you are too busy to respond.
6. Become familiar with the following alphabet to help assist communication if needed.

AALPHA	NNOVEMBER
BBRAVO	OOSCAR
CCHARLIE	PPAPA
DDELTA	QQUEBEC
EECHO	RROMEO
FFOXTROT	SSIERRA
GGOLF	TTANGO
HHOTEL	UUNIFORM
IINDIA	VVICTOR
JJULIET	WWHISKY
KKILO	XX-RAY
LLIMA	YYANKEE
MMIKE	ZZULU

