SOUND MODULE INSTALLATION AND OPERATION

CAUTION

This device is controlled by a very sophisticated software program. Recording sounds on the module without the proprietary software program and related hardware is not possible and will void any express or implied warranties. Not following all instructions, reversal of polarity, exposure to fluids, attempts to modify or repair the module will void any warranties.

INSTALLATION

1. All cables are labeled for easy identification.
2. As with all electronic equipment, install switches at the power sources, including the propulsion battery and receiver battery. Note: Turning off the module will also stop the motor from running. If you wish to run the motor without hearing the sound effect, disable the speaker with a switch at the speaker.
3. With all power turned off, including the transmitter make the connections for the sound module as shown in the diagram.
4. The propulsion battery must be 12 volts. Battery packs rated in milliamps will not work.
5. Connect the module battery cables, through a switch (not included), to the 12 volt battery taking care not to reverse the polarity. Polarity reversal will destroy the module.
6. Almost any brand name 12 volt, solid state proportional speed control (ESC) will work.
7. Insert the speed control's receiver lead into the sound module's ESC port so that the black or brown wire is oriented to the outside edge of the case. Use of a BEC or Battery Eliminator Circuit will not affect the functionality of the sound module. (The throttle control signal passes through the sound module before going to the actual speed control)
8. Make the propulsion motor connection to the ESC, as usual.
9. Optimum sound levels and fidelity will be achieved by using an 4 ohm, mid range speaker securely fastened to the boat interior. The use of a speaker enclosure will substantially enhance the sound. Polarity of the speaker wiring will not affect performance. Bench test the installed module to adjust the volume, idle point and top end RPM.

RUNNING THE SOUNDS

Note: If your radio has a "Servo Reverse" function, ensure that it is set to normal. Active "Servo Reverse" will cause the motor to start with a reverse joystick movement instead of forward.

To start the motor sound:

1. On your transmitter, ensure the propulsion joy stick is set at neutral.
2. Switch on the propulsion motor, receiver, and transmitter, as usual.
3. Push the propulsion joy stick slightly forward to hear the motor cranking sound. Return the joy stick to neutral and the motor sound will idle but the propulsion motor will not rotate.
4. Push the stick up and the speed control will be activated. Your electric motor will now change speed as usual and the motor sound will change accordingly.

To shut off the motor sound:

1. Move the motor control stick to neutral. The motor sound will run for approximately 20 seconds and then turn off. This does not shut the module off. To restart the sound, simply move the throttle forward as before for initial startup.
2. You may also use a switch at the speaker at anytime to turn off the module sound.

Working the Auxiliary Sounds:

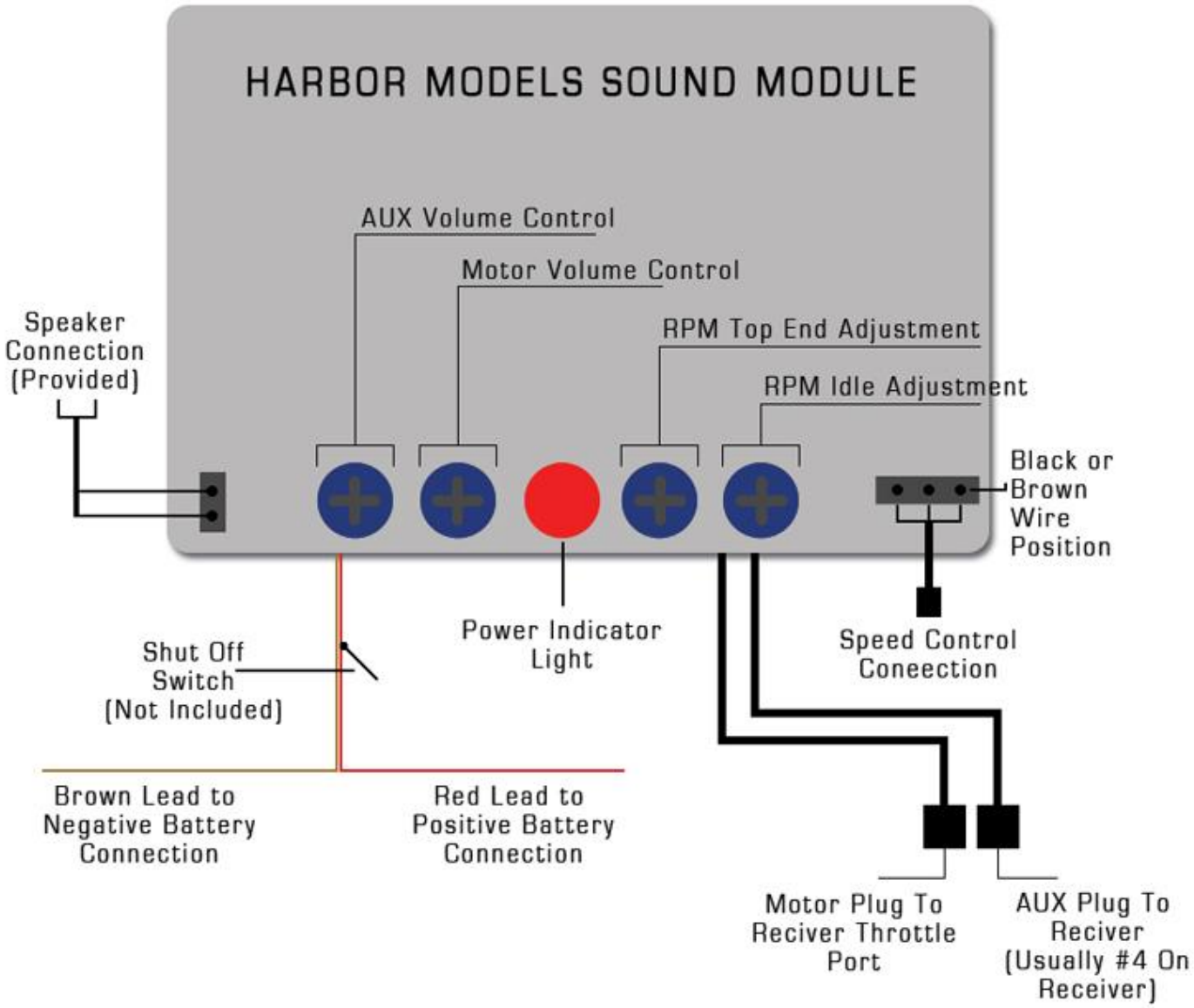
Your module is equipped with up to 4 auxiliary sound effects. On a 4 channel radio, the vertical movement of the right hand joystick is typically available to control these sounds, but any available proportional channel will work.

To activate the auxiliary sounds slowly move the selected joystick either up or down, once you hear the auxiliary sound you may hold it in this position to continue playing that given sound effect.

Depending on the specific unit you have purchased you can play auxiliary sound effects by moving your joystick:
Full Forward, ½ Forward, Full Reverse and ½ Reverse.

SPECIFICATIONS:

Dimensions: 3" x 2" x 7/8"
Weight: 3 oz.
Amplifier Wattage: 10 watt
Amplifier Impedance: 4-8 ohm
Current Draw: 1 amp
Voltage: 12 Volts


HARBOR MODELS SOUND MODULE
AUX Volume Control
Motor Volume Control
RPM Top End Adjustment
RPM Idle Adjustment
Speaker Connection (Provided)
Black or Brown Wire Position
Power Indicator Light
Speed Control Coneection
Shut Off Switch (Not Included)
Brown Lead to Negative Battery Connection
Red Lead to Positive Battery Connection
Motor Plug To Reciver Throttle Port
AUX Plug To Reciver (Usually #4 On Receiver)