

# Coxmate AA(rev B) Manual



## 1. Introduction

The **Coxmate AA** is a low cost compact audio only unit. It maintains compatibility with the cable harness and speakers used on the previous (revA) **Coxmate AA**, the **Coxmate SR** and **Coxmate SC**. All the **Coxmate** control units can be connected to an existing Nielsen Kellerman® Cox-Box™ and Cox-Vox™ cable harness and speakers.



## 2. Getting Started

Plug the charger unit into unit. Charging will take up to approx 12 hours if batteries are completely flat. The led lights on front of **AA** indicate when unit is charging (flash) and when it is fully charged (steady).

Fit microphone in place with headband. The **AA** has a mounting plate which can be worn on body using waistband provided, or fitted permanently into boat using screws or double sided tape provided . Connect microphone and 4 pin rubber connector on boat harness. Press **ON (+)** button to turn unit on. If unit is connected to speakers, there will be a short beep and both indicator lights will flash and then the **run** light will stay on. If it does not detect cable harness, both lights will flash three times and unit will turn off.

Adjust volume with (+) and (-) button. Once the volume is set, the unit will remember setting - If the unit is then turned off and on, it will maintain the same volume setting. If battery is low, the **run** indicator will flash.

To turn unit off, disconnect it from cable harness. When this occurs both indicator lights will flash three times. Stow connector on short cable back in its retainer.

## 3. Battery Management

The unit is fitted with 8 x 800mAh NiMH batteries. The charging circuit automatically switches off when they are fully charged. This means units can be left permanently on charge without causing battery deterioration. Charge time is 12 hours and the operating time is up to 12 hours. This time will vary depending on how vocal the cox is. The low battery indication is designed to come on with about 10% of battery capacity remaining. Very heavy usage by cox may cause battery to become flat before low battery indication occurs.

When the unit is not being used the batteries will gradually loose their charge – it takes approximately three months to fully discharge. **If unit is not used for more than 3 months, it should be charged. Leaving unit uncharged for long periods of time will shorten life of batteries.**

## 4.0 Maintenance and Fault Finding

The only routine maintenance required is **the wiping of the electrical connectors with silicone grease**, and the **washing off of any salt/impure water with clean fresh water**. The silicone grease should be smeared lightly on mating rubber surfaces and inserted into the female silver contacts. In the rowing season it is recommended that this be undertaken once per month for salt water environments and every 3 months for fresh water environments. The washing down with fresh water should be undertaken every time the system is exposed to salt water. This is especially important for the exposed electrical connectors. The connectors on both the **cable harness** and **control box** should be thoroughly washed if they become exposed to salt water when they are disconnected. Clean fresh water will not harm the system. It is important for the connector protective caps to be fitted when they are not in use.

The following is a list of potential problems with suggested actions:

PROBLEM	ACTION
No light on power up	Check unit is charged. If not, charge. If no light check charger either by trying a different charger or measuring the voltage on charger jack plug – should be approx 16VDC in centre referenced to the outside metal surface of the jack plug.
No audio output	Check volume setting is not 0%. Check speakers are connected. The resistance between the top pair of pins on the 4 pin cable harness connector should be between 2 and 4 ohms. If microphone is not working it can be replaced. Try another cable harness if possible.
One or more speakers not working	Check speaker connections, connector in middle of harness for sectionable boats, and connector to control box. Each speaker is 8 ohms impedance. This can be checked with a multimeter.
Battery will not hold charge	Check battery charger – approx 16VDC in centre referenced to the outside metal surface of the jack plug. If charger OK and batteries are more than two years old, replace batteries. These should be same type as original ones, available from <a href="http://www.coxmate.com.au">www.coxmate.com.au</a>

If the above does not fix problem then please email; [service@coxmate.com.au](mailto:service@coxmate.com.au) with details. A response, in normal circumstances, will be made within 24hrs.

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