

The Coxmate SRT+ Manual

1. Introduction

The SRT has been upgraded with a new larger display and other new features.

The SRT's primary functions are audio amplification, display of rate, time and stroke count. It also has the ability to recall rate or time intervals, a metronome, and an alarm clock function – to remind crews the race start is nigh. The unit is fitted with a RADIO input connector – this is used to connect to a radio to provide coach to crew communication.

To get started, charge unit.

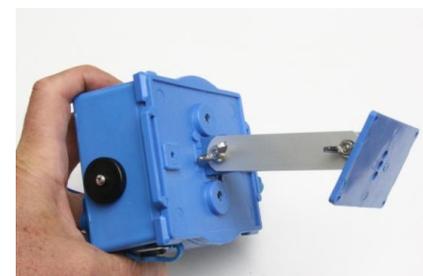
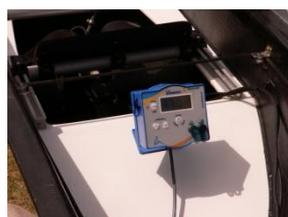
2. Installation



The SRT can be fitted to boat using the blue adjustable bracket or the NK adaptor which fits to the NK cup.



Mount the adjustable bracket in optimum position and viewing angle for cox. The pictures on left show three examples for both bow and stern coxed boats. This bracket is provided with stainless screw sets and double sided tape for mounting to boat– either can be used. It can be mounted on horizontal or vertical surface. The top right picture shows the SRT being placed on mounting. Magnets hold SRT to mounting. The bracket has two friction hinges, enabling the arm between to be moved at will – see middle picture on right.



If the NK adaptor is used NK adaptor, then it is pushed into NK cup and SRT attached – via magnets. See pictures on left.

Once the SRT is mounted then the 4 pin rubber harness connector and microphone connector should be plugged in.



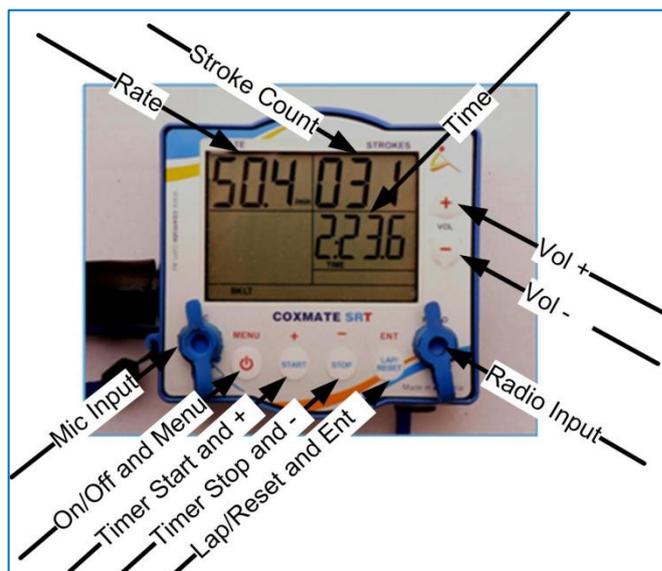
3. Operation

3.1 Charging: Connect charger to unit, it will display **XX% Batt** when being charged. **XX%** is the available battery capacity.

3.2 Turning Unit ON

To turn unit on press  button. If you want the **backlight** on, hold this button down for 2 seconds when turning on.

Once started, the SRT+ will go through a sequence, showing firmware version, date and time, alarm(time) setting and volume setting. If connected to speakers there will be a beep – this tells you speakers are connected. SRT will then display **Rdy** in lower right display section. If battery is low **Lo Batt** will flash. **If battery voltage is too low, unit will turn audio amplifier OFF, however the display will continue to operate.**



3.3 Adjusting Volume

Set volume with **Vol [+] [-]** adjust buttons. **Vol 56%** - volume will be temporarily displayed.

Now you are ready to go. Rate will be displayed upper left.

3.4 Using Timer

The timer is started by pressing **Start** - it will then display **Set**, and a pulse from seat sensor (a second press of **Start** button will also start timer).

Stroke count will now be displayed (upper right) and time (lower right).

You can also start timer with count down start: Hold **Start** button down for 2 seconds to start. Unit will then count down from 10 and beep and display GO when it reaches zero.

To stop timer, press **Stop** button – it will stop on its own if no seat pulse received for 30 seconds. When TIMER is stopped, **StP** will be displayed lower left. If the **Lap/Reset** button is pressed after timer has been stopped, timer will reset to zero. If the **Lap/Reset** button is pressed whilst TIMER is running, it will display LAP time and **LAP**. This will disappear after 5 seconds, or when Lap/Reset button is pressed again. Each time Lap/Reset button is pressed, the time interval is recorded and can be recalled.

3.5 Turning Unit OFF: Unit will automatically turn OFF, if there are no speakers connected for 5 minutes and no buttons pressed. Alternatively hold  button down for 2 seconds.

3.6 Setting Time and Date: Press **Ent** when date/time is shown on power up – you can then adjust with [**▲**], [**▼**] and **Ent** buttons. Clock is 24 hour.

3.7 Setting Alarm Clock: Press **Ent** when **Alar** is displayed on power up – you can then adjust with [**▲**], [**▼**] and **Ent** buttons. The alarm will only operate once i.e. not every 24 hours. When set time is reached, the alarm will sound a series of fast beeps and flash **Alar**.

3.8 Recall: With the unit displaying **Rdy** (i.e Timer is not running), Press **Menu**. **rtE** (stands for rate) will be displayed in upper right. You can select **Int**(stands for interval) by pressing [**▲**]or [**▼**] – these will cause display to toggle between **rtE** and **Int** . Once you have the correct selection press **Ent**.

Rate will display total time of record eg 00:00 lower left and 6:23(6 minutes and 23 seconds) lower right. You can then scroll through record with [**▲**]and [**▼**] buttons. The rate for each time sample period will be displayed. For example, If the average rating between 15 and 29 seconds was 36.2, display would show rating 36.2 (upper left), start time 00:15(lower left) and end time 00:29(lower right). The sample time can be read in either 15 or 30 second increments. To change between 15 and 30 seconds, press either **Vol [+]**. The record will be lost once timer has been started again.

If **Int** (Interval) is selected, the first time interval will be displayed (lower right) and a number **1**, indicating first interval, will be displayed(lower left). The [**▲**]and [**▼**] will step through the intervals.

3.9 Metronome: With the unit displaying **Rdy** (i.e Timer is not running), Press **Menu** twice. The lower left will display the frequency – beeps per minute, and the lower right will display **On** or **OFF**, depending on status. To turn ON/OFF, press **Ent** and [**▲**] or [**▼**] and **Ent** again. You can the adjust frequency with [**▲**] and [**▼**] and **Ent**. Pressing **Menu** will exit metronome. In addition to setting rate in boat, the metronome is handy for testing speakers.

3.10 Muting Audio: The audio can be muted, by pressing **Vol [+]** and [**-**] buttons at same time. **Mute** will be displayed (lower right). To resume audio, press **Vol [+]** or [**-**].

3.11 Checking Battery %: To check available battery capacity, Hold **Vol [+]** or [**-**] buttons down for 2 seconds.

4. MAINTENANCE

If used on salt water, rinse unit in fresh water to remove salt.

Make sure all the protective caps for connectors are in place when not in use.

Grease the following parts; approx every 4 months for fresh water and 2 months for salt water rowing. **Only use silicone grease. Never use lubricants such as WD40.**

- The rubber mating parts on 4 pin rubber connector
- The metal pins on 4 pin rubber connectors – inject grease into female pins and coat male pins
- Inject grease into MIC and RADIO sockets on unit

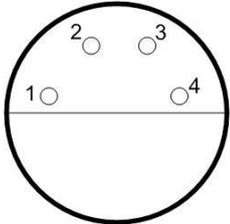
Battery Management: Batteries should be charged no less than once every 3 months. It is detrimental for them to be left flat for long periods eg the Winter months when you may not be able to row. If your unit is only used for part of the year, then it is recommended you leave unit connected to charger which is connected to a low cost timer. Timer should be set to come on for around 10 minutes per day, or pro rata for a week.

Note: The other connectors in harness, i.e. the 2 pin ones on speaker harness need only be greased annually, excepting section connector which should be greased at same interval as 4 pin ones above.

If the unit gets moisture inside, then open unit and disconnect battery as soon as possible. If moisture is from fresh water, dry unit with warm air eg. Hairdryer on low heat. If it is from salt water, then remove battery, thoroughly rinse in demineralised water and dry as above.

To check if unit is sealed, place it in a bowl of hot (tap) water for ~ one minute. If there are leaks bubble streams will appear. If unit leaks then it should be returned to Coxmate or agent for service.

5. TROUBLE SHOOTING:

PROBLEM	ACTION
No power up	Check unit is charged. If not, charge. If no charge indication, check charger either by trying a different charger or measuring the voltage on charger jack plug – should be 14-22VDC in centre referenced to the outside metal surface of the jack plug.
No audio output	Connect unit to speakers. Turn unit ON – check battery has charge. If speakers beep, then problem is probably microphone – replace mic. If there is no beep, most likely cause is that the unit is not connected to speakers. Try connecting to different harness/speakers. If still not working, visually check 4 pin rubber connector – pins should be ~ 3mm from surface of rubber. If they have been forced into rubber housing, they can be pulled back with fine long nose pliers. If still no operation, contact Coxmate or agent. Note: If battery is very low, then unit will turn audio OFF – other functions will continue to operate.
No Stroke Rate	<p>Check magnet is on seat and not more than 20mm from reed switch.</p> <p>To check SRT, disconnect 4 pin rubber connector from the harness, and short pins 1 and 4 with a paper clip or similar. This will simulate a seat sensor pulse.</p> <p>If there is still no count or rate, return unit to Coxmate or agent for service.</p> <p>If unit works when doing this, problem is in cable or seat sensor.</p> 
Battery will not hold charge	Check battery charger – 14-22VDC 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 www.coxmate.com.au