

COXMATE

ADVANCED ELECTRONICS FOR ROWING

Coxmate SCT: Quick Start Manual (Firmware version 1.09)

1. Introduction

We realise you are in a hurry to get out and try your new acquisition, so we've produced this manual to help. The **SCT** is a powerful instrument and some of its power will only become apparent after some practical use, and some reference to the full manual.

This is the only hard copy manual included. All the others are available from www.coxmate.com.au

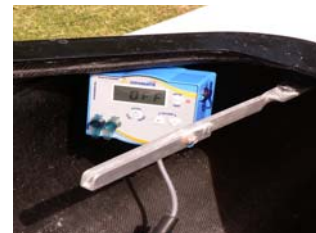
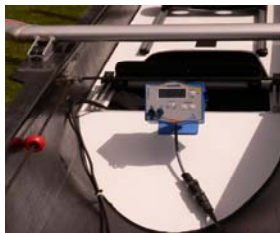
There are a number of options you could have purchased with your **SCT**:

- Speed sensor – either impeller or GPS type.
- PC-Interface – the hardware for downloading data to PC and SC Software for analysing data.

2. To Start

After you have unpacked unit, charge it up. If batteries are fully discharged, they may take some time before the 'Charging' message appears. You can now go to either **Setting Up**, or **In the Boat** section. For logical reasons we will cover **Setting Up** first.

Setting Up: If you have a speed sensor, attach it as per instructions supplied with sensor.



Install **SCT** magnetic mounting plate in a suitable location with double sided tape or the screw sets supplied. The mounting base has a double friction hinge, this enables both its position and angle to be adjusted for optimum viewing. The base can be attached to a horizontal, angled or vertical surface – pictures above (they show an SRT which also uses the magnetic mounting) give a few suggestions. The mounting base is designed to permanently mount in boat. Plug in speaker harness and, if fitted, speed sensor, to the flying leads, connected to the mounting base.

In the Boat: Drop **SCT** onto magnetic mounting base. Turn unit **On**. There should be a beep, indicating the speakers are connected. Plug microphone into **SCT** and tap it to check it is operating.

Unit would normally be set up for GPS or Impeller speed sensor before dispatch. If you need to check or change this go to Section 3 (Menu item 10 for **Set Up**) and check/adjust accordingly. If unit is set up for a GPS, unit will indicate it is trying to connect to GPS. Once GPS has locked into enough satellites **SCT** will display '**Ready**' and the light on GPS will stop flashing. This will take around a minute.

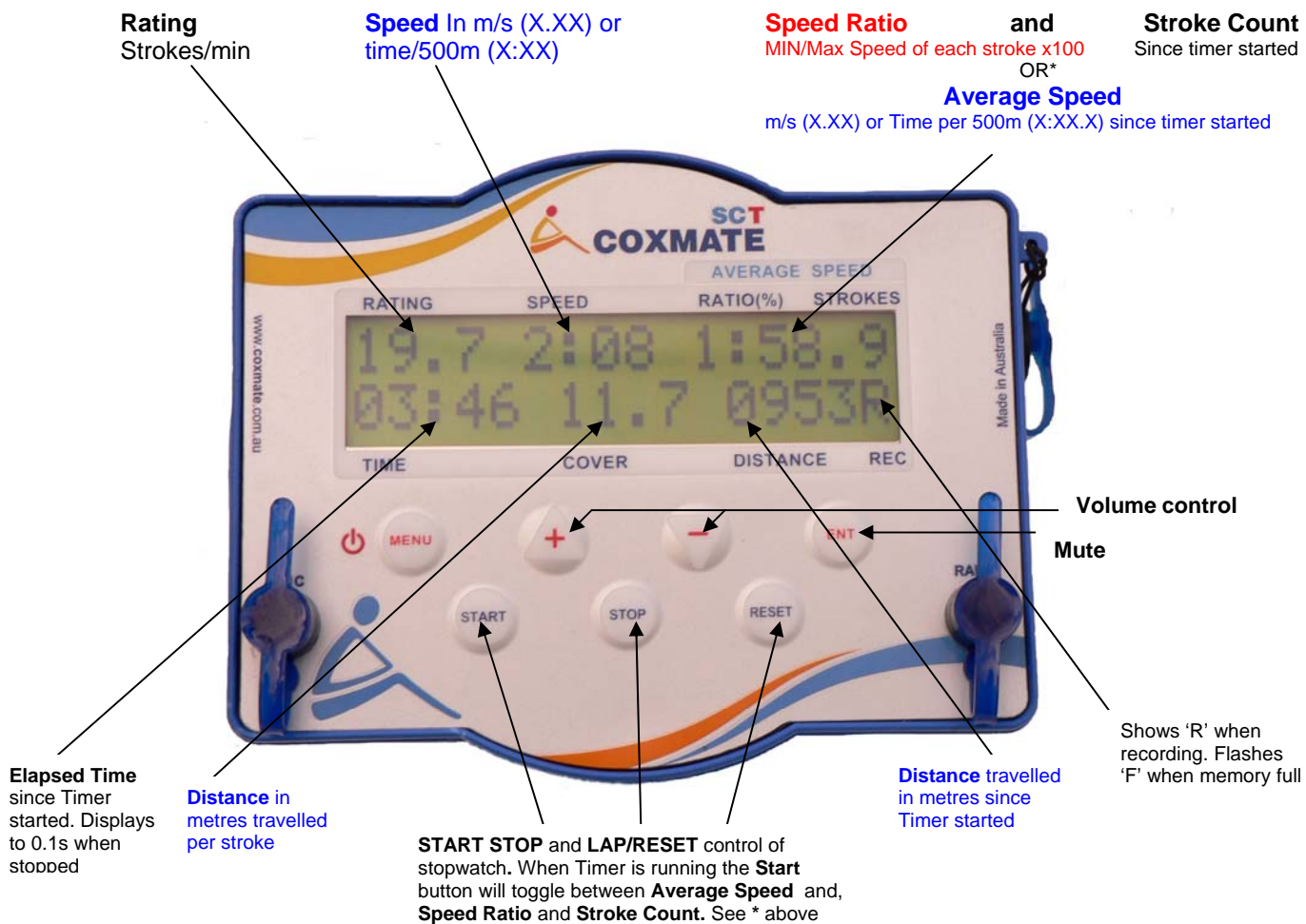
If unit is set up for Impeller speed sensor will go straight to '**Ready**' display. Note: If no speed sensor is being used, unit should be set up for impeller option .

It is sensible to test unit on land before venturing onto water: Move seat with magnet across seat sensor. Stroke rating should appear. If you have a speed sensor check it out: For the impeller ask someone to blow on the impeller – to make it spin, and keep activating stroke sensor by moving seat. You should see a speed reading. Start timer by pressing start button - **SET** will be displayed. If you now

press **Start** button again, or trigger seat sensor, timer will start and the distance value will increase. If no stroke pulse is received for 30 seconds, timer will stop, the **SCT** will flash **Stop**. Pressing the **Start** button again will restart the timer. If you have a GPS, take it off its magnetic base, and move it around a few feet – to the extent cable permits – it will also cause an increase in distance reading.

Now you are ready to row. The following picture shows what is normally displayed, and what the buttons do. The **SCT** defaults to the **Status** display. From this page you can perform most of the **SCT** functions: The text in blue only applies to unit with speed sensor(either impeller or GPS), and the text in red only applies to the impeller speed sensor.

Maintenance: It is important to keep the gold contacts clean and smeared with a light coating of silicone grease (supplied with SCT). This will minimise any corrosion. If SCT is not being used for several months, eg in Winter, then it should be charged every 2 months.



Speed Ratio is a measure of how much the boat is being slowed down during the recovery. Generally the higher the reading, the greater the efficiency. If Average Speed is displayed the reading will show eg **A1:55.3** or **A5.65**, depending whether time per 500m or m/s have been selected. Please note **Speed Ratio** is not available with GPS because the speed signal is not updated frequently enough.

If a **Split** distance has been set (See Menu item 10 –Set Up), then when the **Split distance** has been completed, the word **'SPLIT'** will flash in place of **Cover**, and the **Average Speed, Average Rating Average Ratio, Time, and Stroke Count**, for the **Split** distance will be displayed. This display will stay for 10 seconds, or until the **Start** button is pressed. If Pace Boat function is being used, **'PACE'** will be displayed in place of Cover value, and position relative to pace boat will be displayed on top right.

If you are planning to transfer data to PC, it is important to understand that each time the Timer is started after it has been Reset, then a new 'Record' will be created. This 'Record' is time and date stamped at this time. The Time and Date become the identifier for the 'Record'.

3. The Menu System:

There are many other features offered by the **SCT**. You probably won't use these to start with, but here is a brief outline of these other Menu functions:

1. **Battery** - Displays battery % and allows battery to be deliberately discharged
2. **Backlight** - Backlight ON/OFF and display contrast adjust
3. **Paceboat** – Enables pace boat function to be turned ON/OFF and pace speed to be set.
4. **Status** **DEFAULT SCREEN** You can not exit this screen when timer is running
5. **Radio** – For adjusting volume of external radio.
6. **Recall** - Enables rating and time intervals recorded to be recalled on the **SCT** – no PC required
7. **Metronome** – Generates audible pulse at selected rate
8. **Calibrate** – Calibration of Speed Sensor – Only required with impeller version.
9. **Memory(Connection to PC)** – Memory % used, Memory Clear, and connection to PC
10. **Set Up** – The following parameters can be set:
 - **Speed units**; either m/s or time /500m.
 - **Default display**(for top right area of display): Either Average Speed, or Ratio and Stroke count – Ratio not available for GPS speed sensor.
 - **Split distance**; None, 50,100,200,250,500 or 1000m.
 - **Speed sensor**; GPS or impeller – set to impeller if no speed sensor used.
 - **Radio**: Internal or External. Normally set to external.
 - **Time and date** setting.

A more detailed manual is available from www.coxmate.com.au