

SV3 USER MANUAL

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MARINE ROBOTICS SOCIETY GLASGOW

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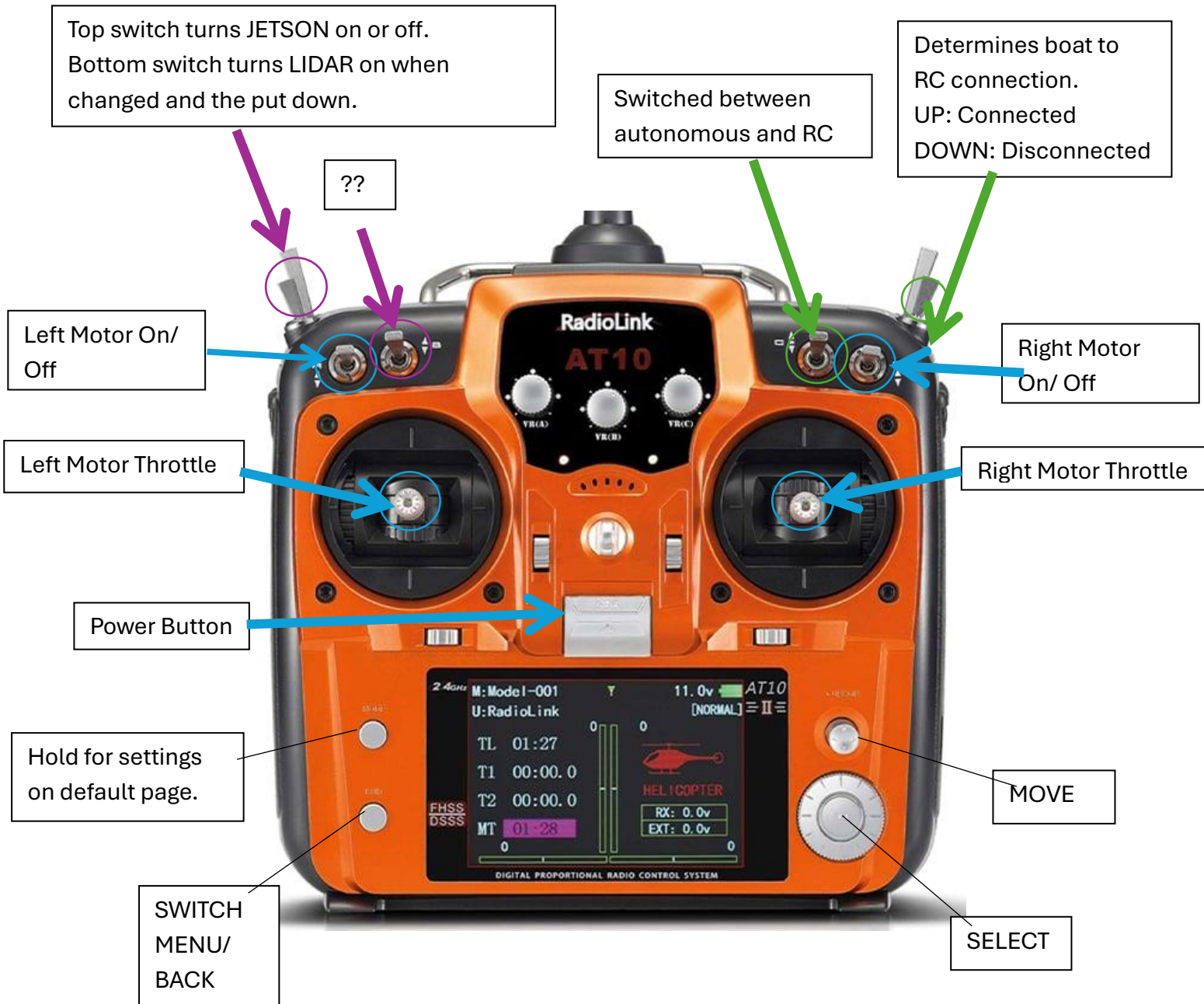
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Introduction

This document is intended to be read by all members of MRS. It covers how to set things up and gives a brief explanation of some parts.

(PIC)

RC Controller



Additional Notes

Powering up sequence

1. Power button
2. Wiggle both throttles until warning is killed on RC
3. C medium (Direct control)
4. A and D up to engage motors
5. If motor not engaging, wiggle the throttles to turn them on.
6. Test both throttles to ensure direct control is on.
7. IF we are not in direct control, switch G to opposite position – G toggles between Arduino mode and direct mode.

Autonomy sequence

1. Perform power up sequence
2. Toggle G to Arduino mode
3. Move C up to engage autonomy.

Killswitch

1. Put C down, wait a second. Red means Killswitch and flashing amber means lost connection to RC.

Power Down Sequence

1. C to medium (direct control)
2. Ensure direct control by wiggling throttles and checking motor connection.
3. IF not, toggle G.
4. Disengage motors by putting A and D down.
5. Turn the RC off.

Traffic Light Messages

Key:

- ✗ This colour is **not** displayed
- ✓ This colour is **displayed**
- ✱ This colour is **flashing**

Message	Colour		
	RED	AMBER	GREEN
Killswitch	✓	✗	✗
RC Control	✗	✓	✗
Autonomy Active	✗	✗	✓
RC Control, Autonomy Active	✗	✓	✓
Motors disengaged, RC connected	✓	✓	✗
Killswitch, RC Connected but not in control.	✓	✱	✗

Additional notes:

(Summary or something)

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Exterior Electronics

(Lots of pictures)

Motors

(How to hook them up, where they are)

Displays

(which is which and why it matters)

4G Radio

(What it does)

Emergency Button

Anything else

Multifunction Buttons

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Using The Battery

(How to charge SV3, understanding the display).