# Bruce Branch (KACT)

# A group of items on a table Description automatically generatedRemote Steering Equipment

# Equipment Shown

2 “T” Handsets

2 Square Handsets

2 Key Fob Handsets

1 Box Handset

2 Control Boxes

2 Tiller Sensors (one shown)

# Handset Instructions

Contents

1. Operation
2. Range
3. Battery replacement
4. Address setup
5. Supervisor Mode
6. Operation
7. Pressing the joystick Left or Right powers the handset and lights the LED indicators.
8. Pressing Joystick to Left moves boat towards Port (Left)
9. Pressing Joystick to Right moves boat towards Starboard (Right)
10. The LEDs give an indication of the potential Boat Heading in forward motion (derived from rudder position).
11. Tiller straight ahead is indicated by 2 LED lit in the centre.
12. The LEDs flash to indicate connection to the Tiller Radio.
13. If they stop flashing or flash Purple it means that connection to Tiller Unit is lost.
14. The Clutch is enabled after each Joystick action and will hold rudder position for about 10 seconds after which the rudder may be influenced by boat motion.
15. The result of this is that continuous small corrections will hold tiller position.
16. If no action is seen for about 40 seconds the handset shuts down again, to save battery life, but can be quickly started again by joystick action.
17. The Supervisor unit Is the small Keyfob “Blipper” unit
18. Operation of the Supervisor unit disables the clutch and gives steering control to the supervisor unit.

Note that the 10 second clutch engagement is not available in this mode, the clutch is only engaged whilst the supervisor buttons are pressed, so that by a quick press on this unit Full Manual Control of the Tiller can be quickly achieved.

1. Pressing the Emergency Stop disables the Tiller unit and returns control to the Helm
2. Range

The range is dependent on the surroundings but has been tested over the whole Tiller area

Certain phone signal and metalwork may interfere. Line of sight between handset and actuator should be kept clear.

1. Battery replacement – Handsets

The battery live will depend on usage, but it is likely one set will last a season. The units power down after 40 seconds of inactivity and restart after a joystick action or button press.

There are 4 types of units

1. T-Case 3 AA Alkaline
2. Square case 3 AA or 3 AAA Alkaline
3. Oblong Box 3 AA Alkaline
4. Key-fob “blippers” 2 AA Alkaline

Take care to insert batteries in correct orientation

There is no protection against wrong insertion and this could destroy the unit

A close up of a device

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3x AA 1.5V Alkaline LR3200 3.2V Button Cell

1. Address Setup

Each handset and Base control unit has a DIL Switch to set the Radio address and Mode

1. Address 0 – 3 -> switch positions -> 123 123 123 123

000 100 010 110

Address 0 1 2 3

Base Unit Handset

A circuit board

Description automatically generated A picture containing engine

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First two Switches set to address 1

Switch position 1 2 3

setting 1 0 0 = address 1

1. Supervisor Mode

Allows supervisor to take control, also disabling the clutch

1. Normal Mode -> xx0, Supervisor Mode -> xx1

Key Fob Unit

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Switch setting -> 101

this means address 1, mode supervisor

First two Switches set to address 10 Last Switch set to 1 = Supervisor Mode