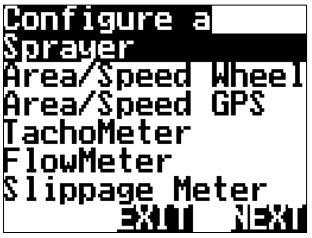
Quick Start Guide – Jackal Spreader Control

Setup – Auto Mode

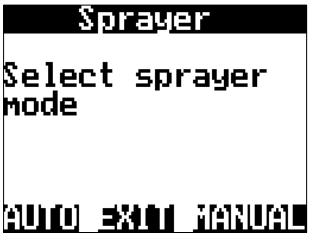
FARMSCANAG

Press **SETUP**

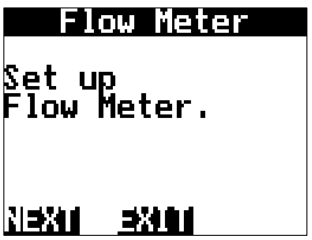
Highlight **WIZARD** & press **SELECT**



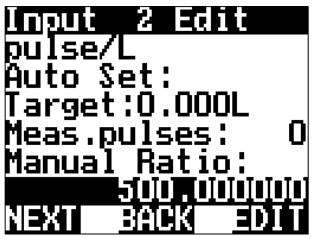
Highlight **Sprayer** & Press **NEXT**



Select Spray **AUTO**



Press **NEXT** to setup your Flow Meter

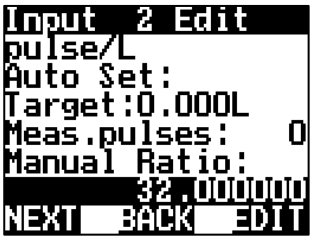


Press the **DOWN** arrow to Manual Ratio 500.00 & Press **EDIT**

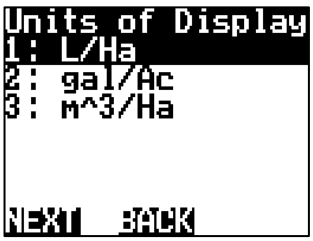
This value will be the Pulses/kg calculation.

Using the NAV buttons enter the PPKG factor. If unknown, start with the number of pickup points on the sprocket

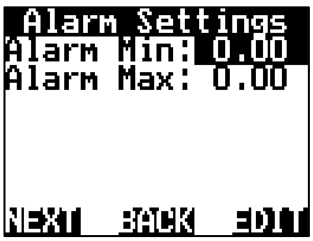
NB the placement of the decimal point



Press NEXT to accept the new manual ratio (PPL)

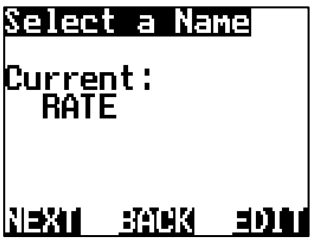


Press NEXT to accept the L/Ha



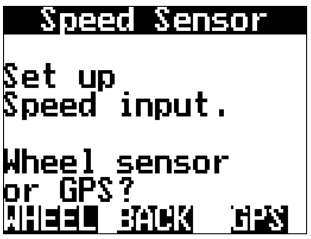
Press NEXT

(Don't worry about editing the alarm values)



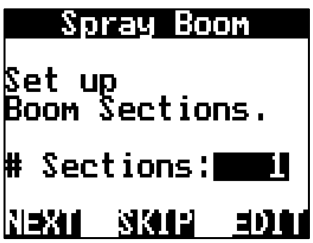
Press NEXT

(Don't worry about editing the Name for the front screen)

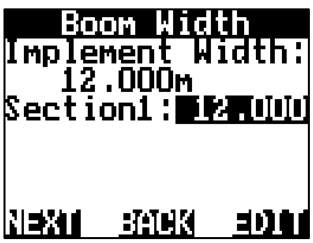


Select **Wheel or GPS**

Setup Guides for each of these can be found on Pages 22 to 24



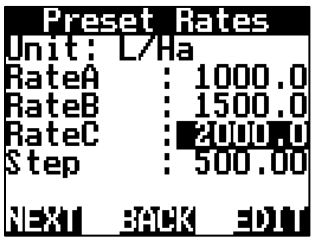
Press **EDIT** and change the number of sections to



Using the **NAV** & **EDIT** keys, highlight and edit

(1) Press **NEXT**

the spread width values as required. Press **NEXT**



Using the **NAV** & **EDIT** keys, highlight and edit the "Preset Rates" & Step Value.

The Jackal has the ability to have **Preset (Quick) Rates** across the bottom of the screen.
Example 1000/1500/2000 L/ha

The Step rate allows you to easily up the rate by this amount quickly from the front screen.

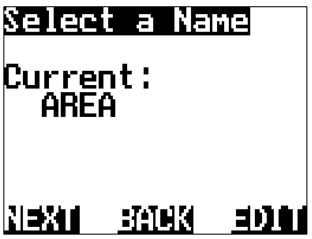
Press **NEXT**

Using the **NAV** & **EDIT** keys, highlight and edit the **HOLD** & **STOP** values as described below.

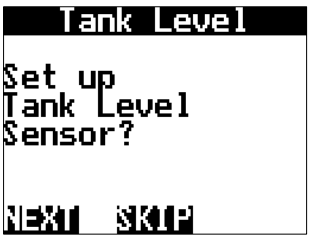
- The Slow Hold Speed function is used to avoid loss of spread coverage caused by loss of belt speed when travelling too slow or when reducing the target rate below the recommended minimum.
- If the spreader is travelling below this speed (but above the minimum hold speed) then belt control is regulated as if the implement were travelling at the Slow Hold Speed.
- NOTE: Slow Hold is an optional function that can be set to operate at a minimum speed equivalent to the minimum recommended belt speed for a given target rate (speed-based).

STOP: Will simply put the Jackal on hold at a set speed.

Press **NEXT**

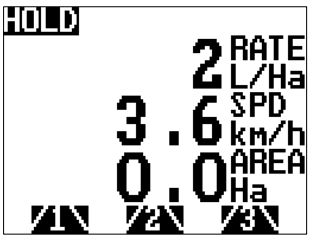


Press NEXT
(Don't worry about editing the Name for the front screen)

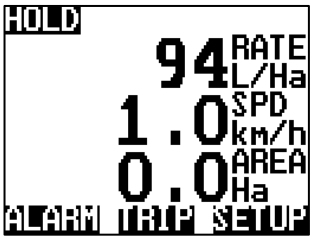


Press SKIP
(Don't worry about setting up a tank level sensor)

Press NEXT to finalise the Wizard and return to the front screen

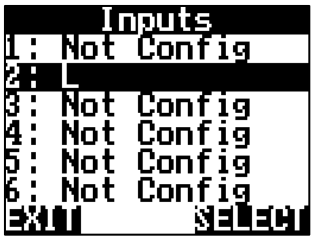


This ends the wizard for setting up a Jackal with GPS speed input.

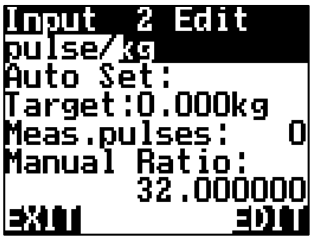


Press the PAGE key to display SETUP

Press the DOWN arrow to INPUTS & press SELECT



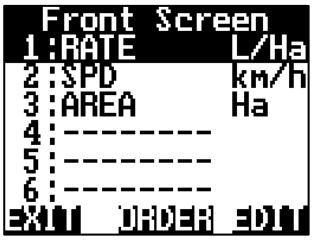
Press the DOWN arrow to line 2: L & press SELECT



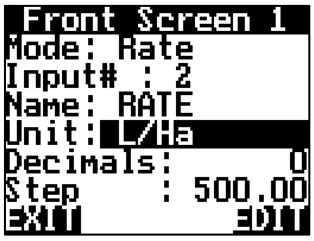
Press the LEFT arrow twice (2) & change to PULSE/KG

Press EXIT & EXIT

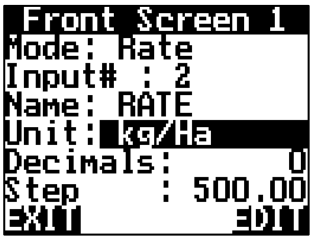
Press the **DOWN** arrow to **FRONT SCREEN** & press **SELECT**



Press the **UP** arrow to **1:RATE L/Ha** & press **EDIT**

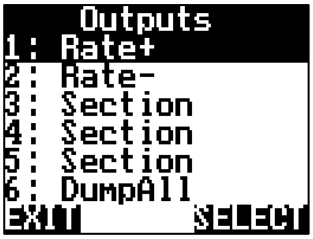


Press the **DOWN** arrow to **UNIT** & select **EDIT** Once. This update the Unit to **KG/HA**



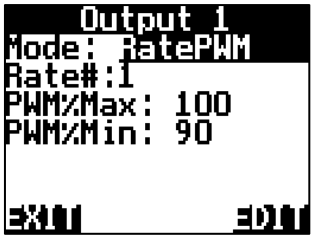
Press **EXIT** & **EXIT**

Press the **DOWN** arrow to **OUTPUTS** & press **SELECT**

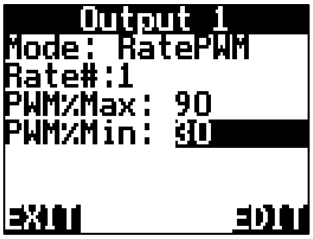


Wire in the PWM Hydraulic valve into the rear of the Jackal. **OUTPUT 1 (A9)** & **GROUND (A7)**

Press **SELECT** on **1: Rate +**



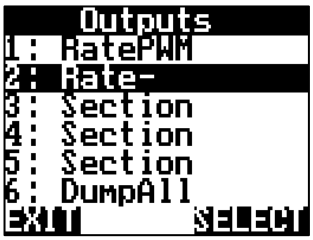
Press the **RIGHT** arrow **8** times to show **MODE: RATEPWM**



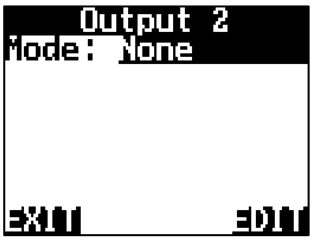
Press the **DOWN** arrow to **PWM%MAX** & **EDIT** the value to **90**. Repeat on the **PWM%MIN** & change the value to **30**

Press **EXIT**

NB: These are starting values. You many need to adjust these if the valve does not move at slow start or is too fast at the high end of demand.

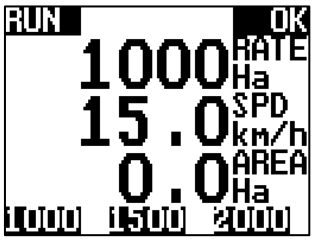


Press the **DOWN** arrow to **SELECT** on **2: Rate -** & press **SELECT**



Press the **LEFT** arrow 10 times to show **MODE: NONE**

Press **EXIT – EXIT & EXIT**



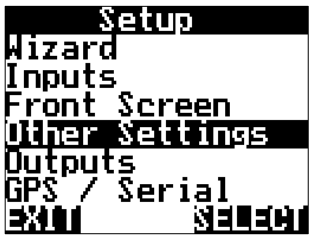
Setup is Now Complete.

Now that you have completed the wizard you will need to check the Jackal is controlling your hydraulic driven belt.

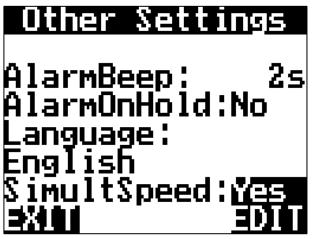
This can be achieved by standing still and enabling the **SIMULATE SPEED** option.

Please note the following:

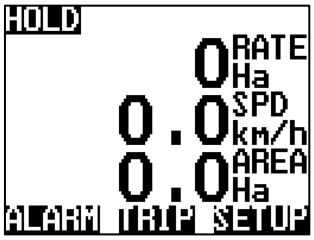
- The Jackal **WILL NOT** allow you operate the belt without a speed input
- The Jackal **WILL NOT** adjust the PWM of the hydraulic driven belt if there is no pulse feedback from the metering shaft input.
- Ensure you have product in the bin for ease of testing & scales to test your calculation method
- Enable **SIMULATE SPEED** by pressing the "Page" button until you reach press **SETUP**



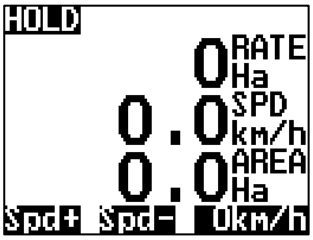
Press the down arrow to OTHER SETTINGS & press SELECT



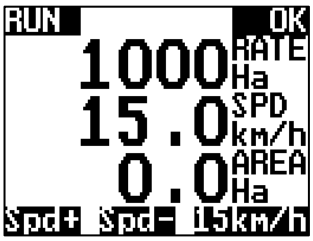
Press the up arrow to SIMULATSPEED and press EDIT to change to Yes



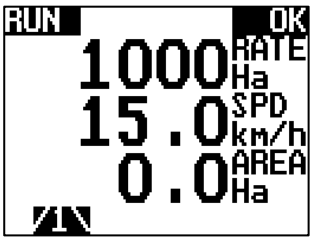
Press EXIT twice & return to the Run Screen



Press the **PAGE** button until you reach the **Spd+** & **Spd-**



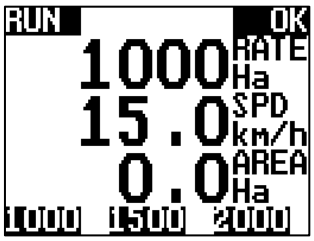
Adjust the speed value to reflect a typical working speed & press the RUN button to take the Jackal off Hold



Press the PAGE button until you reach the section switches.

Press the section switches to enable/disable belt control.

NB: this may only work if you have a relay in line to cut power to the valve. Otherwise this function is not used.



Press the PAGE button until you reach the Quick Rates.

Press each of these from lowest to highest & then back again to confirm target rate can be achieved.

NB. You may have to adjust your speed to achieve a higher/lower rate.

SETUP

COMPLETE

Please remember to turn off speed simulation before operation!

If the desired rate cannot be achieved, it's possible the PWM Valve settings need to be adjusted