CROPLANDS

BA7000 Operators Manual

BA7000 Sprayer Console
V1.2

CROPLANDS

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FACTORY DEFAULT SCREEN

The values shown here are reference values, none of these are editable by the user.

If you are having problems with your sprayer operation this is a good place to look to compare your values such as flow cal factor and wheel cal factor against the values the unit came out of the factory with.

If you do a cold reset (restore to factory defaults) these are the values that will be loaded into your controller.

Factory Default Screen

1. SPRAYER SETUP OPERATION

To return to the Runtime screen from any menu, press the MENU button.
The MENU button may have to be pressed several times to return to the
Runtime screen, depending what menu screen is displayed at the time.
To return to the previous menu, press the MENU button once

Runtime screen

1.1 SPRAYER SETUP MENU

Sprayer Setup Screen

1.1.1 SET THE PRESET RATE:

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP.The focus window will be on
TARGET RATE
Press SELECT 1 .. SELECT 4 to choose the rate you wish to adjust. The rate
you are editing will be shown in brackets. 4 different Preset Rates can be set.
Press SELECT MODE to edit target rate. A star(*) should appear after TARGET
Use Inc/Dec (Up and down arrows) to change the target rate
Press SELECT MODE to accept the changes

1.1.2 SET THE MINIMUM FLOW HOLD VALUE:

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP
Press Dec (down arrow) to move to MINIMUM FLOW
Press SELECT MODE to edit the value. A star(*) should appear after MINIMUM
Use Inc/Dec (Up and down arrows) to change the minimum flow value
Press SELECT MODE to accept changes

1.1.3 CHANGE THE PRESET WIDTH and SECTION WIDTHS:

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP
Press Dec (down arrow) until the focus is on PRESET WIDTH. This window shows the current width of the boom.
Press SELECT MODE to advance to the next screen (Section Widths Setup), as shown below.to be able to change the widths of each section

Section Widths Setup Screen

Press the Inc/Dec (up and down arrows.) To move the focus window to the section width that requires changing. The Dec button moves the focus window to the right from SECT 1 through to SECT 7, the Inc button moves the focus in the opposite direction.
If the boomspray has less than 7 sections then only the number of sections set from the factory will be shown.
Press SELECT MODE to edit the section width. A star(*) will appear.
Use the Inc/Dec (up and down arrows) to change the section width. As the section is changed the TOTAL WIDTH value will change accordingly
Press SELECT MODE to accept the changes
Use the Inc/Dec (up and down arrows) to change the section width
Press SELECT MODE to accept the changes.
Repeat the process for as many section widths that need changing.
Press MENU to go back to the previous Spray Setup Screen.

1.1.4 CHANGE THE LOW SPEED SHUTOFF:

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP
Press Dec (down arrow) until the focus is on LOW SPEED SHUTOFF
Press SELECT MODE. A star(*) will appear after SPEED
Use the Inc/Dec (up and down arrows) to change the shutoff value
Press SELECT MODE to accept the changes

1.1.5 SET THE TANK VOLUME:

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP
Press Dec (down arrow) until the focus is on TANK VOLUME
Press SELECT MODE. A star(*) will appear after TANK
Use the Inc/Dec (up and down arrows) to change the tank volume. Volume changes
in 50 litres increments.
Press SELECT MODE to accept the changes

1.1.6 TOGGLE DUAL BOOM ON/OFF:

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP
Press Dec (down arrow) until the focus is on DUAL BOOM
If the boomspray is a single line boom then the value should be OFF, and there is
no further setup required for the DUAL BOOM option
Press SELECT MODE, if the boom spray is a DUAL BOOM; to advance to the
next screen, the DUAL BOOM SETUP SCREEN. Refer to Section xxx to continue
setting up the dual boom.

Speed Cal Screen

1.1.7 SET THE SPEED CAL FACTOR:

  Press MENU
  Press SELECT MODE to select SETUP
  Press SELECT MODE to select SPRAYER SETUP
  Press Dec (down arrow) until the focus is on SPEED CAL
  Press SELECT MODE. Screen will change to SPEED CAL screen

1.1.8 AUTOMATIC SPEED CALIBRATION

  Press SELECT MODE to begin wheel factor calculation. A star (*) will appear next
to PULSES
  Drive forwards a set distance, say 100m. The pulse count should begin
  accumulating as you travel forwards
  Once distance is reached, press SELECT MODE. Focus will automatically jump
to DISTANCE line of the screen. Measure the distance travelled with a tape
measure.
  Use Inc/Dec (Up and down arrows) to change the distance travelled
  Press SELECT MODE to accept the value. Wheel factor will be automatically
  calculated and displayed.
Pressing reset during calibration will abort the calibration process.

1.1.9 MANUAL SPEED CALIBRATION
  Press MENU
  Press SELECT MODE to select SETUP
  Press SELECT MODE to select SPRAYER SETUP
  Press Dec (down arrow) until the focus is on SPEED CAL
  Press SELECT MODE. Screen will change to SPEED CAL screen
  Press Dec (down arrow) until the focus is on SPEED CAL
  Press SELECT MODE to edit the value
  Use Inc/Dec (Up and down arrows) to change the wheel factor. Wheel factor
  changes in 1cm increments
  Press SELECT MODE to accept the value
  Press MENU to go back to previous Sprayer Setup Screen
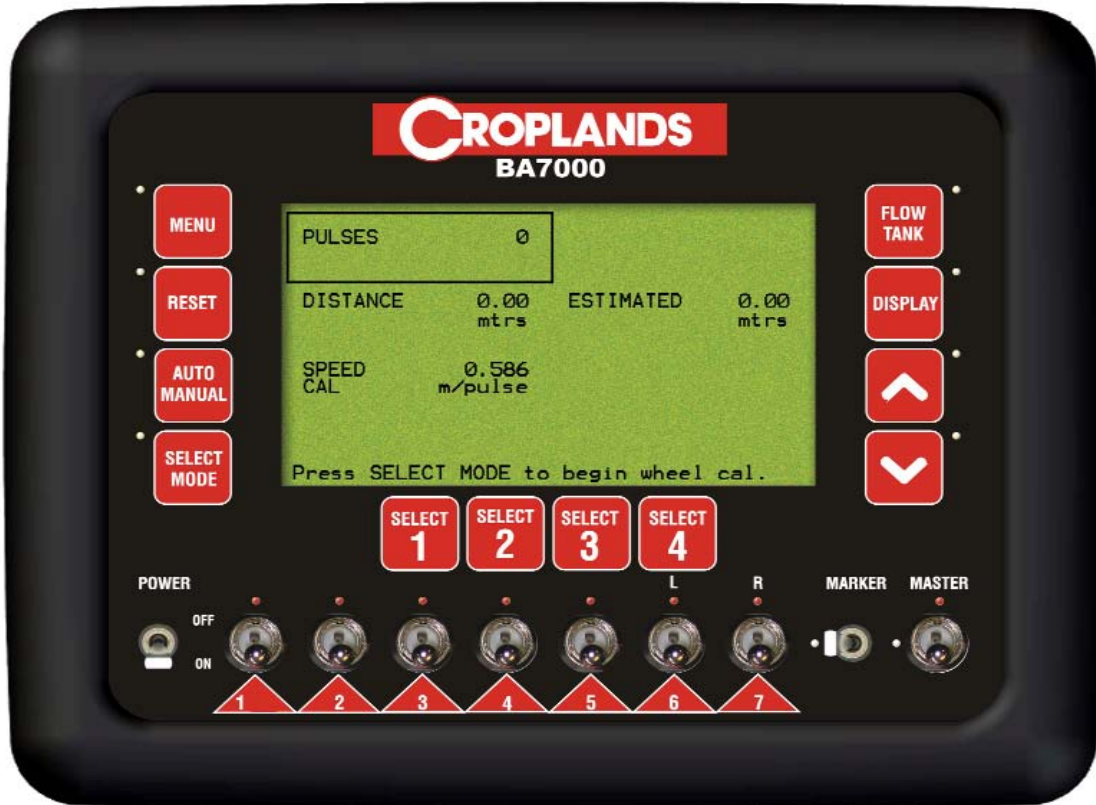
Flow Cal Screen

1.1.10 SET THE FLOW CAL FACTOR:

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP
Press Dec (down arrow) until the focus is on FLOW CAL
Press SELECT MODE. Screen will change to FLOW CAL screen

1.1.11 AUTOMATIC FLOW CALIBRATION

Disconnect one of the section lines from the spray manifold
Place a bucket under the output of the section valve
Ensure the relevant section valve is turned on
Press SELECT MODE to begin flow factor calculation
The valve will open and fluid will begin to pump through the manifold. The
pulse count should begin accumulating as you meter out liquid
Once a sufficient volume has accumulated, press SELECT MODE. Focus will
automatically jump to ACTUAL FLOW line of the screen
Use Inc/Dec (Up and down arrows) to change the volume obtained
Press SELECT MODE to accept the value. Flow cal factor will be automatically
calculated and displayed.
Pressing reset during calibration will abort the calibration process

1.1.12 MANUAL FLOW CALIBRATION

Press Dec (down arrow) until the focus is on FLOW CAL
Press SELECT MODE to edit the value
Use Inc/Dec (Up and down arrows) to change the flow cal factor
Press SELECT MODE to accept the value

Note: Press MENU to get back to the previous Sprayer Setup Screen once the
calibration is finished.

Sprayer Setup 2 Screen

1.1.13 SET A MANUAL SPEED
   Press MENU
   Press SELECT MODE to select SETUP
   Press SELECT MODE to select SPRAYER SETUP
   Press Dec (down arrow) until the screen changes to SPRAYER SETUP 2
   Press Dec (down arrow) until focus is on MANUAL SPEED
   Press SELECT MODE, A star(*) will appear after MANUAL
   Use Inc/Dec (Up and down arrows) to set the manual speed. A value of OFF and
   number between 1 kph and 40kph can be set.
   Press SELECT MODE, to accept changes
  Note: the manual speed will not be able to be set if there is a valid speed source
  present, this can only be done whilst the vehicle is stationary. As soon as a valid
  speed is present this will override the manual speed. This value is not saved in
  memory, if the unit is turned off this value will need to be re-entered

1.1.14 ADJUST TO RATE INCREMENT
   Press MENU
   Press SELECT MODE to select SETUP
   Press SELECT MODE to select SPRAYER SETUP
   Press Dec (down arrow) until the screen changes to SPRAYER SETUP 2
   Press Dec (down arrow) until the focus is on RATE INCREMENT
   Press SELECT MODE, star (*) will appear after RATE
   Use Inc/Dec (Up and down arrows), to change rate increment value. Rate increment
  changes in 1 L/ha increments
   Press SELECT MODE to accept the changes

Pressure Cal Screen

1.1.15 PRESSURE CALIBRATION

 Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the screen changes to SPRAYER SETUP 2
 Press Dec (down arrow) until focus is on PRESSURE CAL
 Press SELECT MODE, screen will change to Pressure Cal Screen. Focus window
is on TURN PUMP OFF, physically turn pump off on the boomspray.
 Once pump is turned off, Press SELECT MODE. The focus window will move to
the next window IS PUMP OFF? then Press SELECT MODE. at this point the
Eagle console is taking a zero point for the electronic pressure sensor while the
pump is turned off
 Next turn the pump on the boomspray on, and take the pump up to operating
pressure, once at operating pressure, Press SELECT MODE the focus window will
move to IS PUMP AT OPERATING PRESSURE, reminding the operator to have
the pump at operating pressure.
 Press SELECT MODE again to move the focus window to ACTUAL PRESSURE.
 Press SELECT MODE to edit the ACTUAL PRESSURE. A star (*) will appear.
 Press the Inc/Dec (up and down arrows) till the actual pressure is reading the
same as the calculated pressure in the window to the right of the Actual Pressure.
 Press SELECT MODE to accept changes

2. ALARMS SETUP MENU

Alarms Screen

2.1 RATE ALARMS

2.1.1 TOGGLE THE MINIMUM FLOW ALARM

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press SELECT MODE to select RATE ALARMS
Press SELECT MODE to select MIN FLOW ALARM. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to toggle the alarm on/off
Press SELECT MODE to accept the changes

2.1.2 ADJUST THE MINIMUM FLOW ALARM POINT

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press SELECT MODE to select RATE ALARMS
If alarm is off, turn the alarm on as previously explained
Press Dec (down arrow) to move to the alarm point
Press SELECT MODE to edit the value. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to adjust the alarm point
Press SELECT MODE to accept the changes

2.1.3 TOGGLE THE APPLICATION RATE LOW ALARM

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press SELECT MODE to select RATE ALARMS
Press Dec (down arrow) until the focus is on APPL N RATE LOW
Press SELECT MODE to select APP N RATE LOW. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to toggle the alarm on/off
Press SELECT MODE to accept the changes

2.1.4 ADJUST THE APPLICATION RATE LOW POINT

Press MENU

Press SELECT MODE to select SETUP

Press Dec (down arrow) until the focus is on ALARM SETUP

Press SELECT MODE to select ALARM SETUP

Press SELECT MODE to select RATE ALARMS

If alarm is off, turn the alarm on as previously explained

Press Dec (down arrow) to move to the alarm point

Press SELECT MODE to edit the value. A star(*) will be displayed

Use Inc/Dec (Up and down arrows) to adjust the alarm point

Press SELECT MODE to accept the changes

2.1.5 TOGGLE THE APPLICATION RATE HIGH ALARM

Press MENU

Press SELECT MODE to select SETUP

Press Dec (down arrow) until the focus is on ALARM SETUP

Press SELECT MODE to select ALARM SETUP

Press SELECT MODE to select RATE ALARMS

Press Dec (down arrow) until the focus is on APP N RATE HIGH

Press SELECT MODE to select APP N RATE HIGH. A star(*) will be displayed

Use Inc/Dec (Up and down arrows) to toggle the alarm on/off

Press SELECT MODE to accept the changes

2.1.6 ADJUST THE APPLICATION RATE HIGH POINT

Press MENU

Press SELECT MODE to select SETUP

Press Dec (down arrow) until the focus is on ALARM SETUP

Press SELECT MODE to select ALARM SETUP

Press SELECT MODE to select RATE ALARMS

If alarm is off, turn the alarm on as previously explained

Press Dec (down arrow) to move to the alarm point

Press SELECT MODE to edit the value. A star(*) will be displayed

Use Inc/Dec (Up and down arrows) to adjust the alarm point

Press SELECT MODE to accept the changes

2.2 FAN ALARMS

Fan Alarms Screen

2.2.1 TOGGLE THE FAN SPEED LOW ALARM

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press Dec (down arrow) until the focus is on FAN ALARMS
Press SELECT MODE to select FAN ALARMS
Press SELECT MODE to select FAN SPEED LOW. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to toggle the alarm on/off
Press SELECT MODE to accept the changes

2.2.2 ADJUST THE FAN SPEED LOW POINT

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press Dec (down arrow) until the focus is on FAN ALARMS
Press SELECT MODE to select FAN ALARMS
If alarm is off, turn the alarm on as previously explained
Press Dec (down arrow) to move to the alarm point
Press SELECT MODE to edit the value. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to adjust the alarm point
Press SELECT MODE to accept the changes

2.2.3 TOGGLE THE FAN SPEED HIGH ALARM

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press Dec (down arrow) until the focus is on FAN ALARMS
Press SELECT MODE to select FAN ALARMS
Press Dec (down arrow) until the focus is on FAN SPEED HIGH
Press SELECT MODE to select FAN SPEED HIGH. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to toggle the alarm on/off
Press SELECT MODE to accept the changes

2.2.4 ADJUST THE FAN SPEED HIGH POINT

Press MENU

Press SELECT MODE to select SETUP

Press Dec (down arrow) until the focus is on ALARM SETUP

Press SELECT MODE to select ALARM SETUP

Press Dec (down arrow) until the focus is on FAN ALARMS

Press SELECT MODE to select FAN ALARMS

If alarm is off, turn the alarm on as previously explained

Press Dec (down arrow) to move to the alarm point

Press SELECT MODE to edit the value. A star(*) will be displayed

Use Inc/Dec (Up and down arrows) to adjust the alarm point

Press SELECT MODE to accept the changes

2.3 SPEED ALARMS

Speed Alarms Screen

2.3.1 TOGGLE THE SPEED LOW ALARM

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press Dec (down arrow) until the focus is on SPEED ALARMS
Press SELECT MODE to select SPEED ALARMS
Press SELECT MODE to select SPEED LOW. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to toggle the alarm on/off
Press SELECT MODE to accept the changes

2.3.2 ADJUST THE SPEED LOW POINT

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press Dec (down arrow) until the focus is on SPEED ALARMS
Press SELECT MODE to select SPEED ALARMS
If alarm is off, turn the alarm on as previously explained
Press Dec (down arrow) to move to the alarm point
Press SELECT MODE to edit the value. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to adjust the alarm point
Press SELECT MODE to accept the changes

2.3.3 TOGGLE THE SPEED HIGH ALARM

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press Dec (down arrow) until the focus is on SPEED ALARMS
Press SELECT MODE to select SPEED ALARMS
Press Dec (down arrow) until the focus is on SPEED HIGH
Press SELECT MODE to select SPEED HIGH. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to toggle the alarm on/off
Press SELECT MODE to accept the changes

2.3.4 ADJUST THE SPEED HIGH POINT

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press Dec (down arrow) until the focus is on SPEED ALARMS
Press SELECT MODE to select SPEED ALARMS
If alarm is off, turn the alarm on as previously explained
Press Dec (down arrow) to move to the alarm point
Press SELECT MODE to edit the value. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to adjust the alarm point
Press SELECT MODE to accept the changes

2.4   TANK ALARMS

Tank Alarms Screen

2.4.1 TOGGLE THE VOLUME LOW ALARM

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press Dec (down arrow) until the focus is on TANK ALARMS
Press SELECT MODE to select TANK ALARMS
Press SELECT MODE to select VOLUME LOW. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to toggle the alarm on/off
Press SELECT MODE to accept the changes

2.4.2 ADJUST THE VOLUME LOW POINT

Press MENU
Press SELECT MODE to select SETUP
Press Dec (down arrow) until the focus is on ALARM SETUP
Press SELECT MODE to select ALARM SETUP
Press Dec (down arrow) until the focus is on TANK ALARMS
Press SELECT MODE to select TANK ALARMS
If alarm is off, turn the alarm on as previously explained
Press Dec (down arrow) to move to the alarm point
Press SELECT MODE to edit the value. A star(*) will be displayed
Use Inc/Dec (Up and down arrows) to adjust the alarm point
Press SELECT MODE to accept the changes

3.   O P E R ATING HISTO RY

Operating History Screen

3.1   TOTALS HISTORY

Totals History Screen

3.1.1 RESET THE TOTAL VOLUME

Press MENU
Press Dec (down arrow) until the focus is on OPERATING HISTORY
Press SELECT MODE to select OPERATING HISTORY
Press SELECT MODE to select TOTAL VOLUME
Press RESET to clear the stored value
Press SELECT MODE to accept the changes

3.1.2 RESET THE SUB VOLUME

Press MENU
Press Dec (down arrow) until the focus is on OPERATING HISTORY
Press SELECT MODE to select OPERATING HISTORY
Press Dec (down arrow) until the focus is on SUB VOLUME
Press SELECT MODE to select SUB VOLUME
Press RESET to clear the stored value
Press SELECT MODE to accept the changes

3.1.3 RESET THE TOTAL AREA

Press MENU
Press Dec (down arrow) until the focus is on OPERATING HISTORY
Press SELECT MODE to select OPERATING HISTORY
Press Dec (down arrow) until the focus is on TOTAL AREA
Press SELECT MODE to select TOTAL AREA
Press RESET to clear the stored value
Press SELECT MODE to accept the changes

3.1.4 RESET THE SUB AREA

Press MENU
Press Dec (down arrow) until the focus is on OPERATING HISTORY
Press SELECT MODE to select OPERATING HISTORY
Press Dec (down arrow) until the focus is on SUB AREA
Press SELECT MODE to select SUB AREA
Press RESET to clear the stored value
Press SELECT MODE to accept the changes

3.1.5 RESET THE TOTAL DISTANCE

Press MENU
Press Dec (down arrow) until the focus is on OPERATING HISTORY
Press SELECT MODE to select OPERATING HISTORY
Press Dec (down arrow) until the focus is on TOTAL DISTANCE
Press SELECT MODE to select TOTAL DISTANCE
Press RESET to clear the stored value
Press SELECT MODE to accept the changes

3.1.6 RESET THE SUB DISTANCE

Press MENU
Press Dec (down arrow) until the focus is on OPERATING HISTORY
Press SELECT MODE to select OPERATING HISTORY
Press Dec (down arrow) until the focus is on SUB DISTANCE
Press SELECT MODE to select SUB DISTANCE
Press RESET to clear the stored value
Press SELECT MODE to accept the changes

3.1.7 RESET THE TOTAL TIME

Press MENU
Press Dec (down arrow) until the focus is on OPERATING HISTORY
Press SELECT MODE to select OPERATING HISTORY
Press Dec (down arrow) until the focus is on TOTAL TIME
Press SELECT MODE to select TOTAL TIME
Press RESET to clear the stored value
Press SELECT MODE to accept the changes

3.1.8 CHANGE TO A DIFFERENT SUB AREA

Press MENU
Press Dec (down arrow) until the focus is on OPERATING HISTORY
Press SELECT MODE to select OPERATING HISTORY
Press Dec (down arrow) until the focus is on SUB AREA NUMBER
Press SELECT MODE to select SUB AREA NUMBER
Use Inc/Dec (Up and down arrows) to adjust the current sub area
Press SELECT MODE to accept the changes

3.2 FAN HISTO RY

These values are display values only, they are not editable by the user

Fan History Screen

3.3 MACHINE HISTO RY

To enter the Machine History screen you must enter the machine unique pin number.
If the number is entered incorrectly, you will be returned to the operating history
screen.

The numbers displayed are machine totals, these can t be edited or reset.

3.31 ENTER THE MACHINE HISTO RY SCREEN

 Press MENU
 Press Dec (down arrow) until the focus is on OPERATING HISTO RY
 Press SELECT MODE to select OPERATING HISTO RY
 Press Dec (down arrow) until the focus is on MACHINE HISTO RY
 Press SELECT MODE to select MACHINE HISTO RY
Enter your pin number

Machine History Screen

PROBABLY DELETE PAGE

4. OPERATIONS: SPRAYER

Runtime Screen

4.1 OPERATION OF THE SPRAYER

4.1.1 DISPLAY THE VOLUME REMAINING IN THE TANK

Press FLOW/TANK The LED appears next to FLOW TANK when displaying
VOLUME LEFT
The ACTUAL RATE changes to Volume Left
To change back, press FLOW/TANK

4.1.2 FILL THE TANK

Press FLOW/TANK to toggle to Volume Left
Press RESET.A prompt appears in the bottom left of the screen
Press SELECT MODE to reset the volume

4.1.3 TOGGLE BETWEEN MANUAL AND AUTO

Press AUTO/MANUAL
If the unit is in AUTO mode, the LED next to the button is illuminated and the
TARGET RATE will display a numerical value
If the unit is in MANUAL mode the LED is not illuminated and MANUAL is
displayed in the TARGET RATE area

4.1.4 TOGGLE BETWEEN FLOW RATE, PUMP SPEED and
LIQUID PRESSURE

Press DISPLAY to toggle between the display modes
If the unit is in FLOW RATE mode, the LED next to the button is not
illuminated, FLOW RATE is displayed and the actual FLOW RATE is shown in L/min
If the unit is in PUMP SPEED mode the LED is illuminated, PUMP SPEED is
displayed and the actual pump rpm is displayed
If the unit is in LIQUID PRESSURE mode the LED is illuminated, LIQUID PRESSURE is
displayed and the actual PRESSURE is displayed IN kPa.
Press DISPLAY again to display FLOW RATE.

4.1.5 TURN A SECTION ON

Adjust the switch for the required section to the on (down) position
If the Master switch is off, the indicator LED for the section will flash
If the Master switch is on the indicator LED will be illuminated and a spray
nozzle will be shown at the top of the screen

4.2 TO BEGIN SPRAYING

Ensure any required sections are turned on
Turn the MASTER switch on

4.2.1 <u>INCREASE OR DECREASE THE APPLICATION RATE (Manual Mode)</u>

Ensure the master switch is on and any required sections are on
Press INC/DEC. The regulator valve will operate and you will see the actual rate
change accordingly

4.2.2 <u>INCREASE OR DECREASE THE APPLICATION RATE (Auto Mode)</u>

Ensure the unit is in AUTO mode as previously described
Press INC/DEC. The target rate will change by the selected increment amount

4.2.3 <u>CHOOSE A PRESET APPLICATION RATE (Auto Mode)</u>

Ensure the unit is in AUTO mode as previously described
Press SELECT 2 to set the focus to the TARGET RATE
Press SELECT MODE
The four preset rates will appear in the bottom left-hand window of the console
Press the SELECT 1, 2, 3 or 4 button that relates to the required rate
The target rate will change to the chosen preset rate

5. DUAL BOOM SETUP

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP
Press Dec (down arrow) until the focus is on DUAL BOOM
If the boomspray is a single line boom then the value should be OFF, and there is no further setup required for the DUAL BOOM option
Press SELECT MODE, if the boom spray is a DUAL BOOM; to advance to the next screen, the DUAL BOOM SETUP SCREEN.
Press SELECT MODE. A star(*) will appear next to DUAL.
Press Inc/Dec (up and down arrows) to toggle between ON/OFF
Press SELECT MODE to accept changes.

Dual Boom Setup

6. DUAL BOOM SETUP USING SPEED SWITCHING MODE

6.1 TOGGLE DUAL BOOM

 Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL BOOM
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press SELECT MODE. A star(*) will appear next to DUAL.
 Press Inc/Dec(up and down arrows) to toggle between ON/OFF.Select ON
 Press SELECT MODE to accept changes.

6.2 PRIMARY BOOM SETUP

 Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL BOOM
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Inc/Dec (up and down arrows) to move focus to PRIMARY BOOM
 Press SELECT MODE.A star(*) will be displayed next to PRIMARY
 Press Inc/Dec to toggle between FRONT and BACK
 Press SELECT MODE to accept changes.

6.3 SWITCHING MODE SETUP(SPEED,FLOW AND PRESSURE)

 Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL BOOM
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Inc/Dec (up and down arrows) to move focus to SWITCHING MODE
 Press SELECT MODE.A star(*) will be displayed next to SWITCHING
 Press Inc/Dec to toggle between SPEED,FLOW and PRESSURE. Select SPEED
 Press SELECT MODE to accept changes.

6.4 SWITCHING ORDER SETUP

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL B O O M
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Inc/Dec (up and down arrows) to move focus to SWITCHING ORDER
 Press SELECT M O D E.A star(*) will be displayed next to SWITCHING
 Press Inc/Dec to toggle between P,B and P,S,B. When P,B is selected means the primary boom will switch first, then both booms will switch on. When P,S,B is selected the primary boom will switch on, then when the first switching point is reached the secondary boom will switch on(and primary boom will switch off);then when the second switching point is reached both booms(primary and secondary) will switch on
Note:SWITCH ON TIMER and SWITCH OFF TIMER options are only available when P,S,B is selected
 Press SELECT MODE to accept changes.

6.5 SET SWITCHING POINTS

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL B O O M
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Inc/Dec (up and down arrows) to move the focus to SET SWITCHING POINTS
 Press SELECT MODE.to advance to SWITCHING SETUP screen
Note: The SECD LINE SWITCHING option is only available when P,S,B is selected, in the SWITCHING ORDER option. When P,S,B is selected, 2 switching points have to be entered(SECD LINE SWITCHING and DUAL LINE SWITCHING). When P,B is selected only one switching point has to be entered(DUAL LINE SWITCHING)
 Press SELECT MODE with the focus window on SECD LINE SWITCHING.A star(*) will appear.
 Press Inc/Dec (up and down arrows) to edit the value for the second line switching point
 Press SELECT MODE to accept changes.
 Press Inc/Dec (up and down arrows) to move the focus to DUAL LINE SWITCHING
 Press SELECT MODE with the focus window on DUAL LINE SWITCHING.A star(*) will appear.
 Press Inc/Dec (up and down arrows) to edit the value for the dual line switching point
 Press SELECT MODE to accept changes.

6.6 SET SWITCH ON TIMER AND SWITCH OFF TIMER

Note SET SWITCH ON and SWITCH OFF TIMER is only displayed when P,S,B is selected in the SWITCHING ORDER, refer Section 5.1.4

Press MENU

Press SELECT MODE to select SETUP

Press SELECT MODE to select SPRAYER SETUP

Press Dec (down arrow) until the focus is on DUAL BOOM

Press SELECT MODE to advance to DUAL BOOM SETUP screen

Press Inc/Dec (up and down arrows) to move the focus to SWITCH ON TIMER

Press SELECT MODE. A star(*) will be displayed next to SWITCH ON

Press Inc/Dec (up and down arrows) to edit the value for the SWITCH ON TIMER. The value is entered in milliseconds(mS), 500 milliseconds equals 1/2 a second and 1000 milliseconds equals 1 second.

Press SELECT MODE to accept changes

Press Inc/Dec (up and down arrows) to move the focus to SWITCH OFF TIMER

Press SELECT MODE. A star(*) will be displayed next to SWITCH OFF

Press Inc/Dec (up and down arrows) to edit the value for the SWITCH OFF TIMER. The value is entered in milliseconds(mS), 500 milliseconds equals 1/2 a second and 1000 milliseconds equals 1 second.

Press SELECT MODE to accept changes

7. DUAL BOOM SETUP USING FLOW SWITCHING MODE

7.1. TOGGLE DUAL BOOM

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP
Press Dec (down arrow) until the focus is on DUAL BOOM
Press SELECT MODE to advance to DUAL BOOM SETUP screen
Press SELECT MODE. A star(*) will appear next to DUAL.
Press Inc/Dec(up and down arrows) to toggle between ON/OFF. Select ON
Press SELECT MODE to accept changes.

7.2 PRIMARY BOOM SETUP

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP
Press Dec (down arrow) until the focus is on DUAL BOOM
Press SELECT MODE to advance to DUAL BOOM SETUP screen
Press Inc/Dec (up and down arrows) to move focus to PRIMARY BOOM
Press SELECT MODE. A star(*) will be displayed next to PRIMARY
Press Inc/Dec to toggle between FRONT and BACK
Press SELECT MODE to accept changes.

7.3 SWITCHING MODE SETUP(SPEED,FLOW AND PRESSURE)

Press MENU
Press SELECT MODE to select SETUP
Press SELECT MODE to select SPRAYER SETUP
Press Dec (down arrow) until the focus is on DUAL BOOM
Press SELECT MODE to advance to DUAL BOOM SETUP screen
Press Inc/Dec (up and down arrows) to move focus to SWITCHING MODE
Press SELECT MODE. A star(*) will be displayed next to SWITCHING
Press Inc/Dec to toggle between SPEED,FLOW and PRESSURE. Select FLOW
Press SELECT MODE to accept changes.

7.4 SWITCHING ORDER SETUP

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL B O O M
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Inc/Dec (up and down arrows) to move focus to SWITCHING ORDER
 Press SELECT M O D E . A star(*) will be displayed next to SWITCHING
 Press Inc/Dec to toggle between P,B and P,S,B. When P,B is selected means the primary boom will switch first, then both booms will switch on. When P,S,B is selected the primary boom will switch on, then when the first switching point is reached the secondary boom will switch on(and primary boom will switch off);then when the second switching point is reached both booms(primary and secondary) will switch on
Note:SWITCH ON TIMER and SWITCH OFF TIMER options are only available when P,S,B is selected
 Press SELECT MODE to accept changes.

7.5 SET SWITCHING POINTS(FLOW) MENU

Flow Switching Setup Menu

7.5.1 FRONT LINE NOZZLES SETUP

Front Line Nozzles Setup Screen

7.5.1a SET MINIMUM FLOW FOR NOZZLES(FRONTLINE)

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL B O O M
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Dec (down arrow) to move the focus to SET SWITCHING POINTS
 Press SELECT MODE.to advance to SET SWITCHING POINTS(FLOW) MENU
screen
 Press SELECT MODE to select FRONT LINE NOZZLES
 Press SELECT MODE. A star(*) will be displayed after MIN
 Press Inc/Dec(up and down arrows) to change the MIN FLOW
 Press SELECT MODE to accept changes

7.5.1b SET MAXIMUM FLOW FOR NOZZLES(FRONTLINE)

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL B O O M
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Dec (down arrow) to move the focus to SET SWITCHING POINTS
 Press SELECT MODE.to advance to SET SWITCHING POINTS(FLOW) MENU
screen
 Press SELECT MODE to select FRONT LINE NOZZLES
 Press Dec (down arrow) until focus is on MAX FLOW
 Press SELECT MODE. A star(*) will be displayed after MAX
 Press Inc/Dec(up and down arrows) to change the MAX FLOW
 Press SELECT MODE to accept changes

7.5.1c SET NUMBER OF NOZZLES FOR EACH SECTION FOR FLOW SWITCHING(FRONTLINE)

 Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL BOOM
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Dec (down arrow) to move the focus to SET SWITCHING POINTS
 Press SELECT MODE.to advance to SET SWITCHING POINTS(FLOW) MENU
 screen
 Press SELECT MODE to select FRONT LINE NOZZLES

   Write down the number of nozzles on each section on the FRONTLINE of the
boomspray, with section 1 being on the left hand side of the boomspray. The number
of sections are set from the factory. If your boomspray has 5 sections then there will
be 5 sections displayed on the screen to enable the number of nozzles for each of
the 5 sections to be entered. If the boomspray has 7 sections then 7 sections will be
displayed on the screen. As the number of nozzles are being entered then the TOTAL
NOZZLES will tally the total number of nozzles on the boomspray, displayed on the
top right hand of the screen.
  Press Dec (down arrow) until focus is on NOZZLES, for section 1
  Press SELECT MODE. A star(*) will be displayed.
  Press Inc/Dec(up and down arrows) to enter in the number of nozzles for section 1
  Press SELECT MODE to accept changes
  Press Dec (down arrow) once so the focus is on NOZZLES for section 2
  Press SELECT MODE. A star(*) will be displayed.
  Press Inc/Dec(up and down arrows) to enter in the number of nozzles for section 2
  Press SELECT MODE to accept changes
  Enter the number of nozzles for each section
  Repeat the above procedure and enter the number of nozzles for the remaining
  sections

7.5.2 BACK LINE NOZZLES SETUP

Back Line Nozzles Setup Screen

7.5.2a SET MINIMUM FLOW FOR NOZZLES(BACKLINE)

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL B O O M
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Dec (down arrow) to move the focus to SET SWITCHING POINTS
 Press SELECT MODE.to advance to SET SWITCHING POINTS(FLOW) MENU
screen
 Press Dec (down arrow) until focus is on BACK LINE NOZZLES
 Press SELECT MODE to select BACK LINE NOZZLES
 Press SELECT MODE. A star(*) will be displayed after MIN
 Press Inc/Dec(up and down arrows) to change the MIN FLOW
 Press SELECT MODE to accept changes

7.5.2b SET MAXIMUM FLOW FOR NOZZLES(BACKLINE)

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL B O O M
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Dec (down arrow) to move the focus to SET SWITCHING POINTS
 Press SELECT MODE.to advance to SET SWITCHING POINTS(FLOW) MENU
screen
 Press Dec (down arrow) until focus is on BACK LINE NOZZLES
 Press SELECT MODE to select BACK LINE NOZZLES
 Press Dec (down arrow) until focus is on MAX FLOW
 Press SELECT MODE. A star(*) will be displayed after MAX
 Press Inc/Dec(up and down arrows) to change the MAX FLOW
 Press SELECT MODE to accept changes

7.5.2c SET NUMBER OF NOZZLES FOR EACH SECTION FOR FLOW SWITCHING(BACKLINE)

 Press MENU
  Press SELECT MODE to select SETUP
  Press SELECT MODE to select SPRAYER SETUP
  Press Dec (down arrow) until the focus is on DUAL BOOM
  Press SELECT MODE to advance to DUAL BOOM SETUP screen
  Press Dec (down arrow) to move the focus to SET SWITCHING POINTS
  Press SELECT MODE.to advance to SET SWITCHING POINTS(FLOW) MENU
 screen
  Press Dec (down arrow) until focus is on BACK LINE NOZZLES
  Press SELECT MODE to select BACK LINE NOZZLES
    Write down the number of nozzles on each section on the BACKLINE of the
boomspray, with section 1 being on the left hand side of the boomspray. The number
of sections are set from the factory. If your boomspray has 5 sections then there will
be 5 sections displayed on the screen to enable the number of nozzles for each of
the 5 sections to be entered. If the boomspray has 7 sections then 7 sections will be
displayed on the screen. As the number of nozzles are being entered then the TOTAL
NOZZLES will tally the total number of nozzles on the boomspray, displayed on the
top right hand of the screen.
  Press Dec (down arrow) until focus is on NOZZLES, for section 1
   Press SELECT MODE. A star(*) will be displayed.
  Press Inc/Dec(up and down arrows) to enter in the number of nozzles for section 1
   Press SELECT MODE to accept changes
  Press Dec (down arrow) once so the focus is on NOZZLES for section 2
   Press SELECT MODE. A star(*) will be displayed.
  Press Inc/Dec(up and down arrows) to enter in the number of nozzles for section 2
   Press SELECT MODE to accept changes
  Enter the number of nozzles for each section
   Repeat the above procedure and enter the number of nozzles for the remaining
 sections

7.5.3 DUAL LINE SWITCHING(FLOW)

Dual Line Switching(Flow) Screen

7.5.3a DUAL LINE SWITCHING VALUES (FLOW)

The values for MIN FLOW FRONT, MAX FLOW FRONT, MIN FLOW FRONT, MAX
FLOW BACK, COMBINED MIN FLOW and COMBINED MAX FLOW are not editable
from this screen but are displayed to help the operator set the SECD LINE
SWITCHING and DUAL LINE SWITCHING points.

The MIN FLOW FRONT value is derived from the value set in the MIN
FLOW(FRONT) Refer Section 7.5.1a and the total number of nozzles on the front
line. Example 0.30 L/min(MIN FLOW-FRONT) X 112(Nozzles) = 33.60 L/min

The MAX FLOW FRONT value is derived from the value set in the MAX
FLOW(FRONT) Refer Section 7.5.1b and the total number of nozzles on the front
line.

The MIN FLOW BACK value is derived from the value set in the MIN FLOW(BACK)
Refer Section 7.5.2a and the total number of nozzles on the back line.

The MAX FLOW BACK value is derived from the value set in the MAX FLOW(BACK)
Refer Section 7.5.2b and the total number of nozzles on the back line.

The COMBINED MIN FLOW is derived from adding the values of MIN FLOW FRONT
and the MIN FLOW BACK.

The COMBINED MAX FLOW is derived from adding the values of MAX FLOW
FRONT and the MAX FLOW BACK.

7.5.3b SETTING SECOND LINE SWITCHING POINT(FLOW)

Note SECD LINE SWITCHING only appears on the Dual Line Switching Screen
when P,S,B is selected in the SWITCHING ORDER setup. Refer Section 7.4

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL B O O M
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Dec (down arrow) to move the focus to SET SWITCHING POINTS
 Press SELECT MODE.to advance to SET SWITCHING POINTS(FLOW) MENU
screen
 Press Dec (down arrow) until focus is on DUAL LINE SWITCHING
 Press SELECT MODE to select DUAL LINE SWITCHING
 Press SELECT MODE with the focus window on SECD LINE SWITCHING.A
star(*) is displayed.
 Press Inc/Dec(up and down arrows) to adjust the SECD LINE SWITCHING point.
 Press SELECT MODE to accept changes

7.5.3c SETTING DUAL LINE SWITCHING POINT(FLOW)

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL B O O M
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Dec (down arrow) to move the focus to SET SWITCHING POINTS
 Press SELECT MODE.to advance to SET SWITCHING POINTS(FLOW) MENU
screen
 Press Dec (down arrow) until focus is on DUAL LINE SWITCHING
 Press SELECT MODE to select DUAL LINE SWITCHING
 Press Dec (down arrow) until the focus is on DUAL LINE SWITCHING
 Press SELECT MODE with the focus window on DUAL LINE SWITCHING.A
star(*) is displayed.
 Press Inc/Dec(up and down arrows) to adjust the SECD LINE SWITCHING point.
 Press SELECT MODE to accept changes

7.6 SET SWITCH ON TIMER AND SWITCH OFF TIMER

Note SET SWITCH ON and SWITCH OFF TIMER is only displayed when P,S,B is selected in the SWITCHING ORDER, refer Section 7.4

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL BOOM
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Inc/Dec (up and down arrows) to move the focus to SWITCH ON TIMER
 Press SELECT MODE. A star(*) will be displayed next to SWITCH ON
 Press Inc/Dec (up and down arrows) to edit the value for the SWITCH ON TIMER.
The value is entered in milliseconds(mS), 500 milliseconds equals 1/2 a second and 1000 milliseconds equals 1 second.
 Press SELECT MODE to accept changes
 Press Inc/Dec (up and down arrows) to move the focus to SWITCH OFF TIMER
 Press SELECT MODE. A star(*) will be displayed next to SWITCH OFF
 Press Inc/Dec (up and down arrows) to edit the value for the SWITCH OFF TIMER.
The value is entered in milliseconds(mS), 500 milliseconds equals 1/2 a second and 1000 milliseconds equals 1 second.
 Press SELECT MODE to accept changes

8 DUAL BOOM SETUP USING PRESSURE SWITCHING MODE

8.1. TOGGLE DUAL BOOM

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL BOOM
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press SELECT MODE. A star(*) will appear next to DUAL.
 Press Inc/Dec(up and down arrows) to toggle between ON/OFF.Select ON
 Press SELECT MODE to accept changes.

8.2 PRIMARY BOOM SETUP

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL BOOM
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Inc/Dec (up and down arrows) to move focus to PRIMARY BOOM
 Press SELECT MODE.A star(*) will be displayed next to PRIMARY
 Press Inc/Dec to toggle between FRONT and BACK
 Press SELECT MODE to accept changes.

8.3 SWITCHING MODE SETUP(SPEED,FLOW AND PRESSURE)

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL BOOM
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Inc/Dec (up and down arrows) to move focus to SWITCHING MODE
 Press SELECT MODE.A star(*) will be displayed next to SWITCHING
 Press Inc/Dec to toggle between SPEED,FLOW and PRESS. Select PRESS
 Press SELECT MODE to accept changes.

8.4 SWITCHING ORDER SETUP

Press MENU
 Press SELECT MODE to select SETUP
 Press SELECT MODE to select SPRAYER SETUP
 Press Dec (down arrow) until the focus is on DUAL B O O M
 Press SELECT MODE to advance to DUAL BOOM SETUP screen
 Press Inc/Dec (up and down arrows) to move focus to SWITCHING ORDER
 Press SELECT M O D E.A star(*) will be displayed next to SWITCHING
 Press Inc/Dec to toggle between P,B and P,S,B.
When P,B is selected means the primary boom will switch first; then both booms will
switch on once the Dual Line Switching point has been reached.
When P,S,B is selected the primary boom will switch on, then when the first
switching point(Secondary Line Switch) is reached the secondary boom will switch
on(and primary boom will switch off);then when the Dual Line Switching point is
reached both booms(primary and secondary) will switch on.
Note:SWITCH ON TIMER and SWITCH OFF TIMER options are only available
when P,S,B is selected
 Press SELECT MODE to accept changes.

8.5 SET SWITCHING POINTS(PRESSURE)

 Note if the operator selected P,B in the SWITCHING ORDER then <u>Go To Section 8.5.1</u> to setup the SWITCHING POINTS for pressure switching.

 Note if the operator selected P,S,B in the SWITCHING ORDER then <u>Go To Section 8.5.2</u> to setup the SWITCHING POINTS for pressure switching.

8.5.1 SET SWITCHING POINTS WHEN P,B IS SELECTED

 Press MENU
   Press SELECT MODE to select SETUP
   Press SELECT MODE to select SPRAYER SETUP
   Press Dec (down arrow) until the focus is on DUAL BOOM
   Press SELECT MODE to advance to DUAL BOOM SETUP screen
   Press Dec (down arrow) to move the focus to SET SWITCHING POINTS
   Press SELECT MODE.to advance to PRESSURE SWITCHING SETUP screen
   Press SELECT MODE with the focus window on DUAL LINE SWITCH ON. A star(*) will be displayed.
   Press Inc/Dec (up and down arrows) to edit the value for the DUAL LINE SWITCH ON point
   Press SELECT MODE to accept changes.
   Press Dec(down arrow) to move focus to DUAL LINE SWITCH OFF
   Press SELECT MODE with the focus window on DUAL LINE SWITCH OFF.A star(*) will be displayed.
   Press Inc/Dec (up and down arrows) to edit the value for the DUAL LINE SWITCH OFF point
   Press SELECT MODE to accept changes.

8.5.2 SET SWITCHING POINTS WHEN P,S,B IS SELECTED

Press MENU
  Press SELECT MODE to select SETUP
  Press SELECT MODE to select SPRAYER SETUP
  Press Dec (down arrow) until the focus is on DUAL B O O M
  Press SELECT MODE to advance to DUAL BOOM SETUP screen
  Press Dec (down arrow) to move the focus to SET SWITCHING POINTS
  Press SELECT MODE.to advance to SWITCHING SETUP(PRESSURE) screen
  Press SELECT MODE with the focus window on SECD LINE SWITCH ON. A star(*)
will be displayed.
  Press Inc/Dec (up and down arrows) to edit the value(in kPa) for the SECD LINE
SWITCH ON point
  Press SELECT MODE to accept changes.

  Press Dec (down arrow) to move the focus to DUAL LINE SWITCH ON
  Press SELECT MODE with the focus window on DUAL LINE SWITCH ON. A star(*)
will be displayed.
  Press Inc/Dec (up and down arrows) to edit the value(in kPa) for the DUAL LINE
SWITCH ON point
  Press SELECT MODE to accept changes.

  Press Dec (down arrow) to move the focus to SECD LINE SWITCH OFF
  Press SELECT MODE with the focus window on SECD LINE SWITCH OFF.A
star(*) will be displayed.
  Press Inc/Dec (up and down arrows) to edit the value(in kPa) for the SECD LINE
SWITCH OFF point
  Press SELECT MODE to accept changes.

  Press Dec (down arrow) to move the focus to DUAL LINE SWITCH OFF
  Press SELECT MODE with the focus window on DUAL LINE SWITCH OFF.A star(*)
will be displayed.
  Press Inc/Dec (up and down arrows) to edit the value (in kPa), for the DUAL LINE
SWITCH OFF point
  Press SELECT MODE to accept changes.

8.6 SET SWITCH ON TIMER AND SWITCH OFF TIMER

Note:SWITCH ON TIMER and SWITCH OFF TIMER options are only available when P,S,B option is selected in SWITCHING ORDER

Press MENU

Press SELECT MODE to select SETUP

Press SELECT MODE to select SPRAYER SETUP

Press Dec (down arrow) until the focus is on DUAL B O O M

Press SELECT MODE to advance to DUAL BOOM SETUP screen

Press Inc/Dec (up and down arrows) to move the focus to SWITCH ON TIMER

Press SELECT MODE. A star(*) will be displayed next to SWITCH ON

Press Inc/Dec (up and down arrows) to edit the value for the SWITCH ON TIMER. The value is entered in milliseconds(mS), 500 milliseconds equals 1/2 a second and 1000 milliseconds equals 1 second.

Press SELECT MODE to accept changes

Press Inc/Dec (up and down arrows) to move the focus to SWITCH OFF TIMER

Press SELECT MODE. A star(*) will be displayed next to SWITCH OFF

Press Inc/Dec (up and down arrows) to edit the value for the SWITCH OFF TIMER. The value is entered in milliseconds(mS), 500 milliseconds equals 1/2 a second and 1000 milliseconds equals 1 second.

Press SELECT MODE to accept changes

9.   CONFIGURATION OPTIONS

General Configuration Screen

9.1 EXTRA CONFIGURATION OPTIONS

To access the extra console related configuration options, hold down the RESET button while the unit is first starting up.
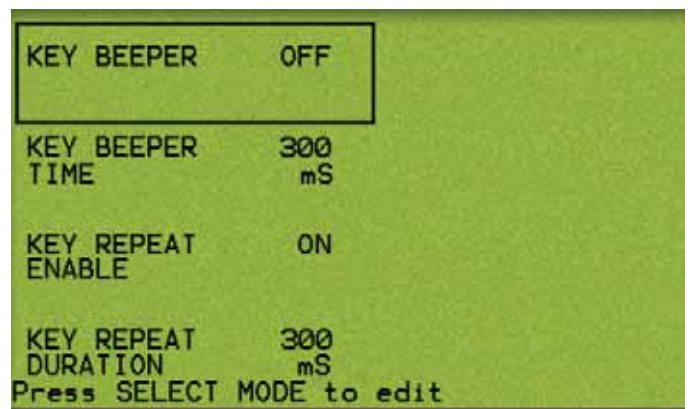
9.1.1 ENTER DIAGNOSTICS MODE

Press SELECT MODE to select GENERAL CONFIG
Press SELECT MODE to select DIAGNOSTICS MODE
See the following page for details on the diagnostics screen

9.1.2 RESTORE TO FACTORY SETTINGS

Press SELECT MODE to select GENERAL CONFIG
Press Dec (down arrow) to set the focus to COLD RESET
Press SELECT MODE to select COLD RESET
Press SELECT MODE to accept
All values will revert to factory settings

9.1.3 TOGGLE THE KEY BEEPER

Press Dec (down arrow) until the focus is on BEEPER CONFIG
Press SELECT MODE to select BEEPER CONFIG
Press SELECT MODE to select KEY BEEPER. A star(*) will be displayed
Press INC/DEC to toggle the beeper state
Press SELECT MODE to accept changes

Key Beeper Screen

9.1.4 CHANGE THE KEY BEEPER TIME

Press Dec (down arrow) until the focus is on BEEPER CONFIG
Press SELECT MODE to select BEEPER CONFIG
Press Dec (down arrow) until the focus is on KEY BEEPER TIME
Press SELECT MODE to select KEY BEEPER TIME. A star(*) will be displayed
Press INC/DEC to change the beeper time
Press SELECT MODE to accept changes

9.1.5 TOGGLE THE KEY REPEAT

Press Dec (down arrow) until the focus is on BEEPER CONFIG
Press SELECT MODE to select BEEPER CONFIG
Press Dec (down arrow) until the focus is on KEY REPEAT ENABLE
Press SELECT MODE to select KEY REPEAT ENABLE. A star will be displayed
Press INC/DEC to change the state of the key repeat
Press SELECT MODE to accept changes

9.1.6 ADJUST THE KEY REPEAT DURATION
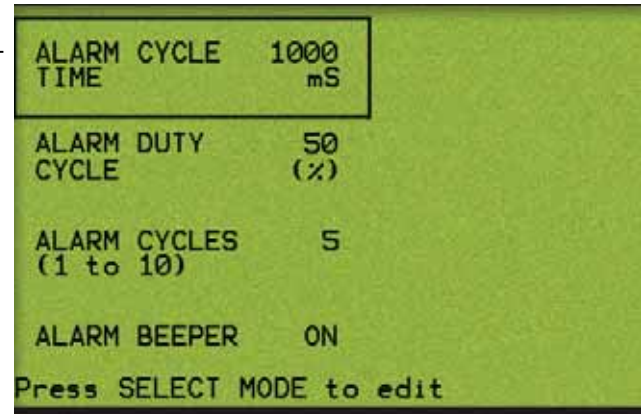
    Press Dec (down arrow) until the focus is on BEEPER CONFIG
    Press SELECT MODE to select BEEPER CONFIG
    Press Dec (down arrow) until the focus is on KEY REPEAT DURATION
    Press SELECT MODE to select KEY REPEAT DURATION. A star(*) will be displayed
    Press INC/DEC to change the key repeat duration
    Press SELECT MODE to accept changes

9.1.7 CHANGE THE ALARM CYCLE TIME:

    Press Dec (down arrow) until the focus is on ALARM CONFIG
    Press SELECT MODE to select ALARM CONFIG
    Press SELECT MODE to select ALARM CYCLE TIME. A star(*) will be displayed
    Press INC/DEC to change the alarm cycle time
    Press SELECT MODE to accept changes

9.1.8 CHANGE THE ALARM DUTY CYCLE:

    Press Dec (down arrow) until the focus is on
    ALARM CONFIG
    Press SELECT MODE to select ALARM CONFIG
    Press Dec (down arrow) until the focus is on
    ALARM DUTY CYCLE
    Press SELECT MODE to select ALARM DUTY
    CYCLE. A star(*) will be displayed
    Press INC/DEC to change the alarm duty cycle
    Press SELECT MODE to accept changes

ALARM CYCLE TIME	1000 mS
ALARM DUTY CYCLE	50 (%)
ALARM CYCLES (1 to 10)	5
ALARM BEEPER	ON

Press SELECT MODE to edit

Alarm Configuration Screen

9.1.9 CHANGE THE NUMBER OF ALARM CYCLES:

    Press Dec (down arrow) until the focus is on ALARM CONFIG
    Press SELECT MODE to select ALARM CONFIG
    Press Dec (down arrow) until the focus is on ALARM CYCLES
    Press SELECT MODE to select ALARM CYCLES. A star(*) will be displayed
    Press INC/DEC to change the number of alarm cycles
    Press SELECT MODE to accept changes

9.1.10 TOGGLE THE ALARM BEEPER ON/OFF

    Press Dec (down arrow) until the focus is on ALARM CONFIG
    Press SELECT MODE to select ALARM CONFIG
    Press Dec (down arrow) until the focus is on ALARM BEEPER
    Press SELECT MODE to select ALARM BEEPER. A star(*) will be displayed
    Press INC/DEC to toggle the alarm beeper
    Press SELECT MODE to accept changes

10. DIAGNOSTICS MODE

Diagnostics Menu

10.1 LED TEST:

Select this to check the operation of the LED's on the front panel
Press enter to begin, the LED's will cycle around the front panel

LED Diagnostics Screen

10.2 SWITCH TEST:

Select this to check the operation of the switches
The state of each switch is displayed along the bottom of the screen
To test the operation of a switch, toggle the switch up and down
The state of the switch should be displayed correctly on the screen

Switch Diagnostics Screen

10.3 KEYS TEST:

Select this to check the operation of the buttons on the front panel
Press any button and the button press should be displayed on the screen

Keys Diagnostics Screen

10.4 SENSORS TEST:

Select this to check the operation of the sensor circuitry
The period (time between pulses) for each sensor will be displayed on the screen

Sensors Diagnostics Screen

10.5 RELAYS TEST:

Select this to check the operation of the section relays
Relays switch on in a preset order

Relays Diagnostics Screen

10.6 R E G VALVE TEST:

Select this to check the operation of the reg valve
The value will automatically open and close

Reg Valve Diagnostics Screen

10.7 EEPROM TEST:

Select this to check the EEPROM READ/WRITE functions
EEPROM is automatically written to and read from. An error message will be
displayed if not working properly.

EEPROM Diagnostics Screen

10.8 DISPLAY TEST:

Select this to check each pixel of the screen
The screen slowly floods back, from left to right
Press MENU to exit

Display Diagnostics Screen

CROPLANDS

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