3S-4000 Folding Min-Till Drill
Acre Counter Update

Used with:
- 3S-4000

⚠ *When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!*

General Information

These instructions explain how to install the battery operated Acre Counter. The Acre Counter is used to calculate and display the field acres and total acres accumulated on the implement it is mounted on and calibrated for.

These instructions apply to:

    194-210A   Electronic Acre Meter Kit

Manual Update

Refer to the 3S-4000 operator's manual for detailed information on safely operating, adjusting, troubleshooting and maintaining the Acre Counter. Refer to the parts manual for part identification.

    195-242M-A   Operator's Manual
    195-242P   Parts Manual

Before You Start

Page 6 has a detailed listing of parts included in the Acre Counter package. Use this list to inventory parts received.

Tools Required
- Electric drill
- Basic hand tools

Definitions
Right hand and left hand as used in this manual are determined by facing the direction the drill will travel while in use.

Assembly Instructions

Refer to Figure 1

1. Select a ground driven shaft with easy access. Install the two halves of the magnet actuator around the shaft and slide the actuator together. Position the magnet actuator next to the bearing mount.

Note: Take care when sliding the actuator together so not to break one of the tabs.

2. Remove the two nuts and lock washers from the carriage bolts which hold the bearing to the mount.

3. Place the bracket which holds the pickup sensor over the bolts and replace the nuts and lock washers. Tighten nuts.

4. Attach the pickup sensor to the sensor bracket. Secure the ground wire to one of the mounting screws. Slide the sensor so it is no more than 1/8" from the magnet actuator. Do not allow the sensor to touch the magnet actuator. Tighten screws to hold in place.

Refer to Figure 2

5. Mount the acre counter console to the drill frame. Select a location close to the pickup sensor which allows easy access for reading or adjustments. Pick a location which allows the console to be mounted in a vertical position.

6. Hold the console in place and mark where to drill the holes for the mounting screws.

7. Drill 11/64" holes where marked and secure the acre counter console in place with two 3/4" x 10-16 self taping screws.

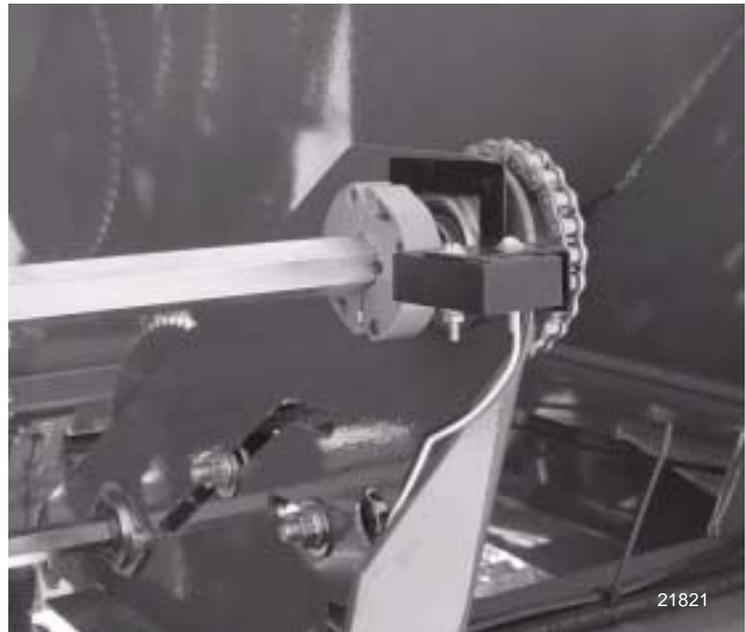8. Connect the cable from sensor pickup to the acre counter console. Windup and tie out of the way any extra cable.

Figure 1
Magnet Actuator

Figure 2
Acre Counter Console

Operating Instructions

The battery operated acre counter operates in one of two modes. In sleep mode, the display is blank, and the counter is accumulating acres. Sleep mode will be entered if a button is not pressed for 20 seconds. In entry mode, the display is on, and the operator can enter values. To get into entry mode, press the FUNC button. If you continue to press the FUNC button, the acre counter will cycle through the functions that it can perform. The icons above the digits indicate which function is selected. The available functions are:

- Field Acres
- Total Acres
- Pulses per Mile
- Width
- Password

Field Acres
Refer to Figure 3

Press the FUNC button until the "FIELD" icon appears in the display. The digits indicate the acres covered since the field acre counter was cleared.

To clear the field acre count, depress the UP and DOWN buttons for 2 seconds.

Field acres will count in tenths of an acre up to 9999.9 acres.

Total Acres
Refer to Figure 4

Press the FUNC button until the "TOTAL" icon appears in the display. The digits indicate the acres covered since the total acre counter was cleared.

To clear the total acre count, press and hold the UP and DOWN buttons for 2 seconds. If a password has been entered you will not be able to clear the total acre count.
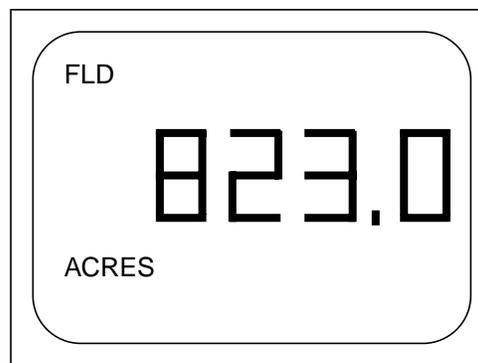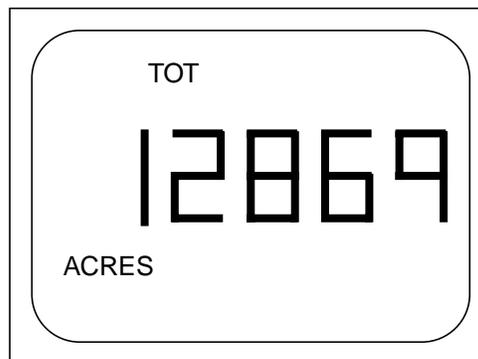
Total acres will count from 1 to 99999 acres.

FLD

823.0

ACRES

Figure 3

TOT

12869

ACRES

Figure 4

Pulses per Mile
Press the FUNC button until the "PULSES" icon appears in the display. The number in the display indicates how many times the shaft rotates for every mile driven.

There are 2 methods to enter the pulses per mile:

Refer to Figure 5

a. If you know the number, select it using the UP and DOWN buttons. When you press the FUNC button, the Landtracker will accept the number in the display as the new pulses per mile.

Refer to Figure 6

b. If you do not know the pulses per mile, press and hold the UP and DOWN buttons until "0000" appears in the display. The "COUNT" icon will appear. The acre counter is now counting shaft rotations. Enter the cab and drive one mile. Press the FUNC button to wake up the acre counter. The "PULSES" and "COUNT" icons will re-appear. The number displayed is the pulses per mile. Press the FUNC button to accept the setting. The "COUNT" icon will disappear. If you could not drive a mile, you can calculate the pulses per mile using a formula.

$$\text{pulses per mile} = \frac{\text{pulse count}}{\text{distance in miles}}$$

Note: If a password is set, you will not be able to adjust the pulses per mile.

Width
Refer to Figure 7

Press the FUNC button until the "WIDTH" icon appears in the display. The number displayed is the width of your implement in feet.

To adjust the width, press the UP and DOWN buttons. If a password has been entered, you will not be able to adjust the width.

The width can be adjusted from 0 to 99.9 feet, in tenths of a foot.
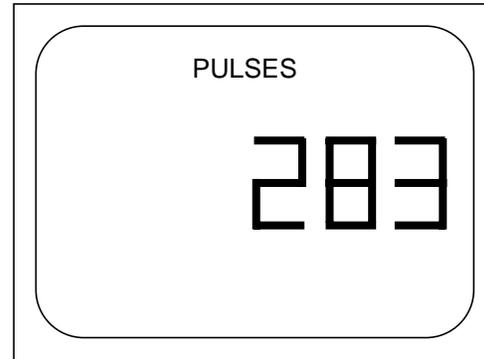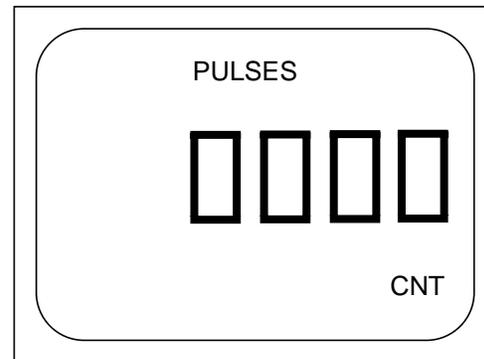
PULSES

283

Figure 5

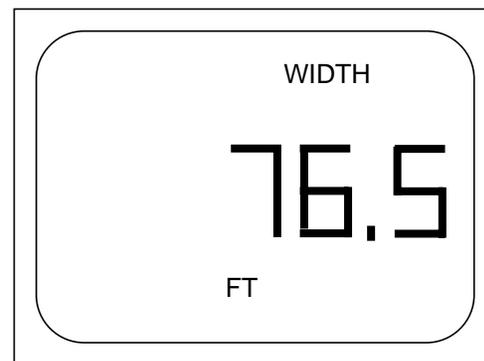PULSES

□□□□

CNT

Figure 6

WIDTH

76.5

FT

Figure 7

Password

The password function allows you to protect the total acre count, pulses per mile and width settings with a password. This stops anyone from accidentally changing those settings. When the acre counter is shipped, the password is disabled. You can modify the pulses per mile and implement width at any time.

Press the FUNC button until the "PASS" icon appears. The digits will display the word "Ent" or "dIS"

If the display shows "dIS"

Refer to Figure 8

> The password is disabled. The total acre count, pulses per mile, width and password settings can be adjusted using the up and down buttons. The password can also be changed using the up and down buttons.

If the display shows "Ent"

Refer to Figure 9

> You must enter your password using the UP and DOWN buttons. When your password is displayed, press the FUNC button to test the password. If the password is correct, you will be able to change the acre counter settings. The password will be viewable until the acre counter powers down. When the acre counter is powered up again, you will have to re-enter the password to change settings.

> If the password is not correct, you will not be able to change the acre counter settings. When the "PASS" function is selected again, "Ent" will appear in the display.

Changing the password

Refer to Figure 10

> Select a new password using the UP and DOWN buttons. Press the FUNC button until the word "SEt" appears in the display. Release the FUNC button. The number in the display is your new pass code. Make sure you write it down! To disable the password, try setting it to 0000. Press and hold the FUNC button until the word "dIS" appears in the display.

If the password is forgotten, it can be disabled by removing the batteries. The password is intended for rental units. It is recommended that a seal be affixed to the rear plate of the acre counter to determine if the settings have been tampered with.
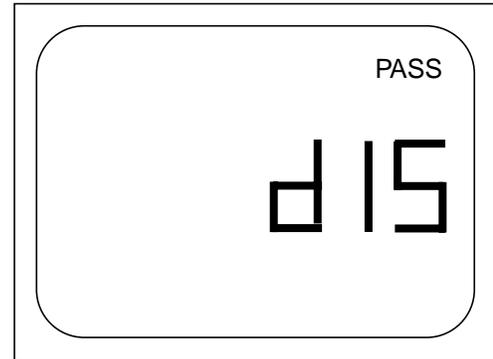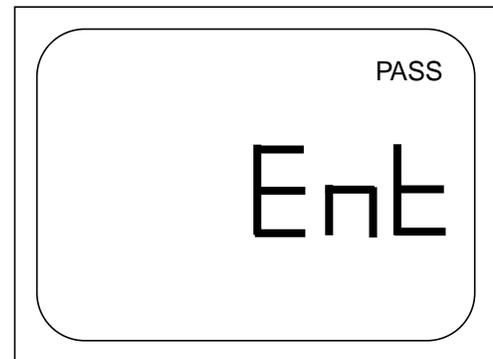

Figure 8

Figure 9

Figure 10

Battery Replacement
The battery operated acre counter uses 3 AA batteries. The batteries should last between 5 and 10 years. The acre counter will last much longer than that. Eventually you will have to replace the batteries. The acre counter will display "LObA" when the batteries require replacement. Remove the acre counter from the implement and undo the 4 screws on the back of the case. This will separate the housing from the rear plate. Replace the batteries with 3 high quality AA alkaline batteries.

Note: This unit is dust and splash resistant, under no circumstance should this unit be submerged in any conductive, corrosive or flammable liquid.

194-210A Electronic Acre Meter Kit

Your kit includes:

Qty.	Part No.	Part Description
1	168-240D	METER SHAFT SENSOR MNT BRACKET
1	194-209M	MANUAL ELECTRIC ACRE METER
2	801-172C	SCREW HEX SLT 10-16X3/4PTH
2	802-506C	RHSNB 1/4-20X1 3/4 GR5
1	823-184C	VANSCO ACRE COUNTER
2	890-351C	BUSHING 5/8 OD X 11/32 ID