



Stock Recorder



USER MANUAL



Care of the stock recorder

1. Do not use anything other than fingers or the stylus on the screen.
2. The screen has a thin screen protector on it. Replacements can be purchased from Shearwell.
3. The batteries are expensive. Batteries will inevitably degrade over time, but we are advised that they will last longer if not allowed to completely drain, or be left in a drained state for any length of time.
4. The stock recorder is fairly robust and should be able to tolerate normal use on the farm. However, please remember that it is an expensive piece of electronic equipment and should be treated as such. It would be worth checking that it is covered by your farm insurance.

Safety warning for wireless devices

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15cm (6 inches) be maintained between a handheld wireless device and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with independent research and recommendations by Wireless Technology Research.

Persons with Pacemakers:

- Should ALWAYS keep the device more than 15cm (6 inches) from their pacemaker when turned ON.
- Should not carry the device in a breast pocket.
- If you have any reason to suspect that interference is taking place, turn OFF the wireless device.
- Should use the ear or hand furthest away from the pacemaker to minimize the potential for interference.

Use with Hearing Aids

When some wireless devices are used near hearing devices (hearing aids and cochlear implants) users may detect a buzzing, humming or whining noise. In the event of interference you may wish to consult your hearing aid supplier to discuss solutions.

Potentially Hazardous Atmospheres

Observe restrictions on the use of radio devices in fuel depots, chemical plants etc, and areas where the air contains chemicals or particles (such as grain, dust or metal powders) and any other areas where you would normally be advised to turn off your vehicle engine.

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Charging the Unit

The stock recorder comes with a cradle (sometimes called a docking station) that's used for charging the internal battery and for transferring data between the unit and the computer.

Charging the stock recorder

1. Connect the power cord to the port in the back of the cradle and plug the other end into the mains power.
2. Dock the Stock Recorder into the cradle to allow it to charge. A small green light on the front of the stock recorder will flash during charging.
3. Allow at least four hours to fully charge the battery from scratch.



Charging a spare battery

The cradle has a battery charger built into the back. When the stock recorder has only 5% remaining charge then a warning screen will suggest recharging the unit or changing to a new battery.

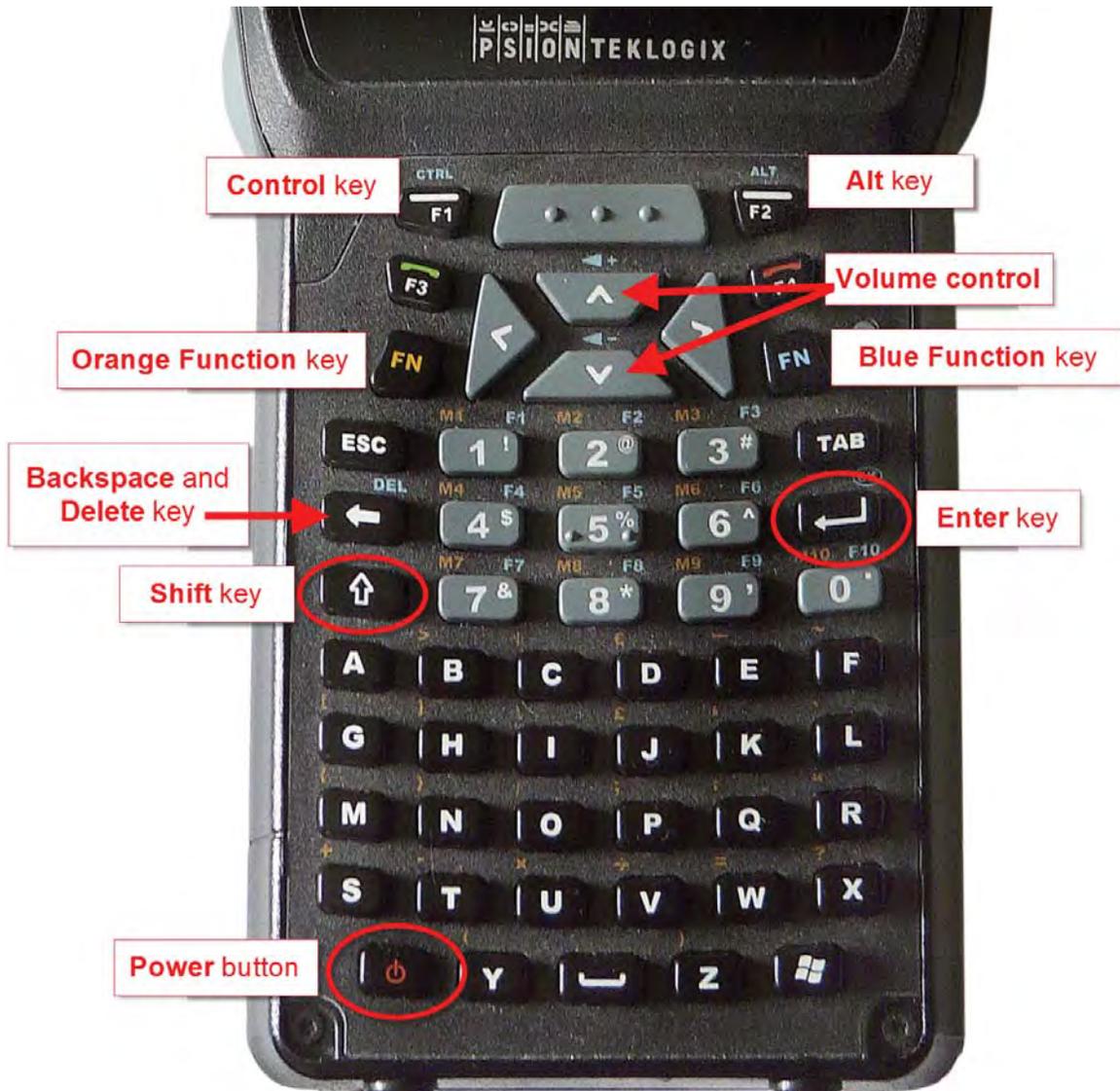
Changing the battery

Access the stock recorder battery by removing the panel on the back of the unit.

1. Exit FarmWorks and switch off the stock recorder.
2. Find the fasteners on the back of the unit, close to the bottom.
3. Turn the fasteners out and upwards.
4. Gently pry the panel from the bottom.
5. Pull out the battery and replace.



Learn the Keyboard



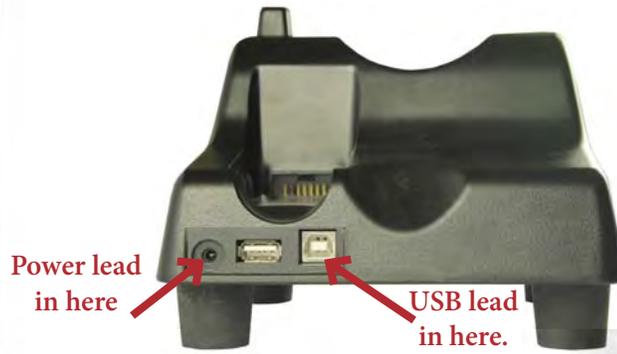
1. Switch on the stock recorder by holding down the **Power** button for a second.
2. Turn off by pressing the **Power** button once.
3. Press the **Shift** key once to type a capital letter. Press the **Shift** key twice to turn on *Caps Lock* so all letters are capitalized. Press the **Shift** key a third time to turn off *Caps Lock*.
4. To adjust the sound press the blue **Function** button twice, then press the + (plus) volume key in the centre to increase the volume or the - (minus) key to decrease the volume. Press the blue **Function** button once more when finished.
5. As a general rule the **Enter** button should be used to move from one field to another instead of tapping on the screen. This ensures that the data is processed and saved correctly.
6. If the keyboard stops functioning look on the bottom toolbar on the screen to see if the **Ctrl**, **Shift** or **Alt** key has been left on by mistake. Push the offending key again to turn it off.



Installation

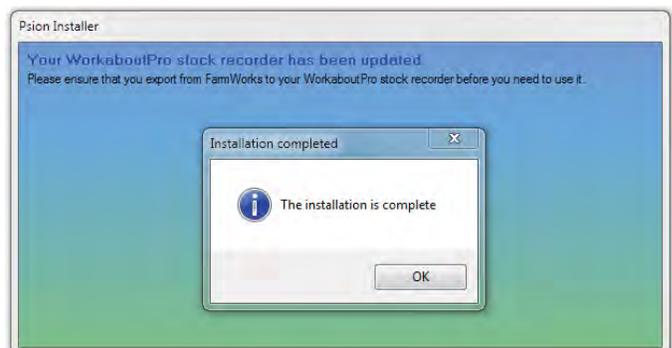
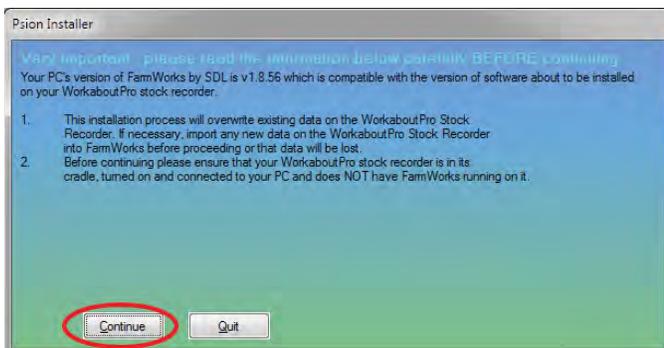
a. Connect the cradle

- » Turn on the stock recorder by pressing and holding the power button.
- » Place the stock recorder firmly in the cradle.
- » Attach the two cords in the back of the cradle.
- » Plug the power cord into a wall socket.
- » Plug the USB cord into a USB port on your computer. The green light on the Psion stock recorder should start to flash.



b. Install the program on your computer

- » Insert the FarmWorks by SDL disk into the CD drive.
- » The installation screen should open automatically.
- » Click once on **Install/Upgrade Stock Recorder**.
- » Windows Mobile Device Center will start to install.
- » Click **Continue** on the compatibility warning screen.
- » Click **OK** when the installation is finished.
- » Close all the installation screens.



Installation

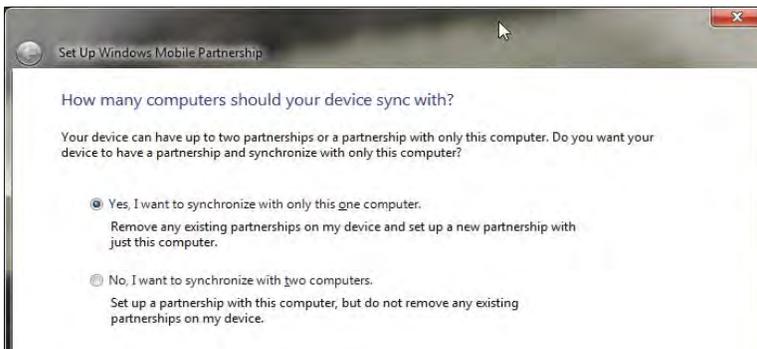


a. Windows Mobile Device Center is the program that links your stock recorder to FarmWorks on the computer. You must set up a partnership between the computer and the stock recorder so they can communicate.

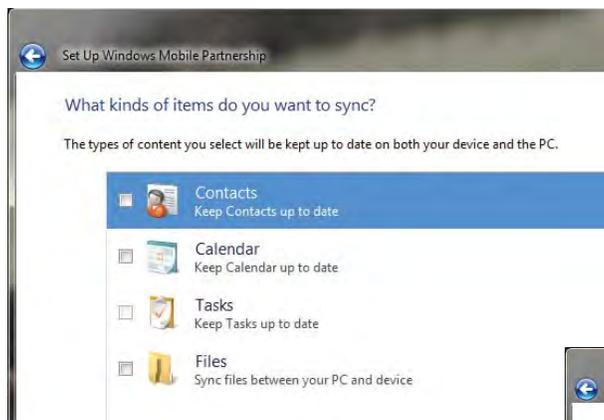
- » After installation you should see the Windows Mobile Device Center screen. If not, eject the stock recorder from the cradle, then push it back in again.
- » Select **Set up your device**



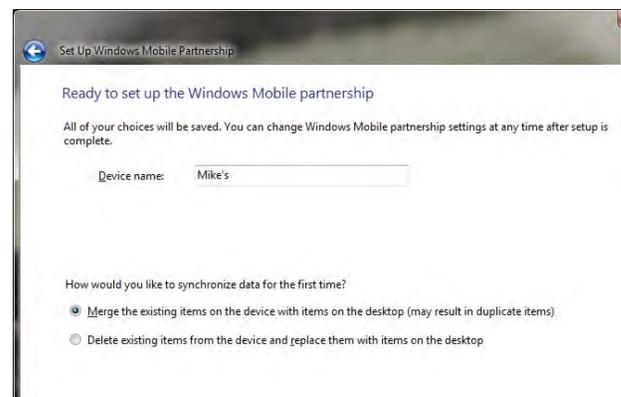
- » “How many computers should your device sync with?” Select **Yes** - one computer.
- » Click on **Next**.



- » “What kind of items do you want to sync?” None - untick all the boxes.



- » “Ready to set up a Windows Mobile partnership”
 - Type in a name for your Psion stock recorder
 - Select “Merge the existing items on the device...”
- » Click on **Set up**.





Installation

- a. Look for the big green tick that shows your stock recorder is connected.

IMPORTANT!

You cannot use your stock recorder until you have sent your farm details from FarmWorks. Read the stock recorder Quick Start guide or refer to page 10 of this manual to learn how to do a data transfer.



Trouble-shooting

If you can't find the Windows Mobile Device Center -

- » It might be called "Sync Center" instead.
- » Use Windows Explorer to search - click on the Start button, type in *Windows Mobile*



If the stock recorder won't connect -

- » Pop the stock recorder out of the cradle. Check the copper connector plates on the bottom are clean, then push the stock recorder firmly back into the cradle.
- » *Are the cords attached correctly?* The cradle must be connected to the computer with the USB cord.
- » *Is the stock recorder turned on?* It must be 'awake' and in the cradle.
- » *Is there a message window hiding on the screen that's waiting for a response?* Look around on the desktop or down on the bottom taskbar; close the message box and the stock recorder will connect.

Upgrading the Software



Very important: The versions of stock recorder and FarmWorks software on the CD you have been sent are compatible. It is essential that you upgrade both. Please consult the upgrade release notes accompanying the CD to see the latest versions.

The latest version is always pre-installed when a stock recorder is dispatched, so for newly received units it is not necessary to run the upgrade. If in doubt, please contact Support.

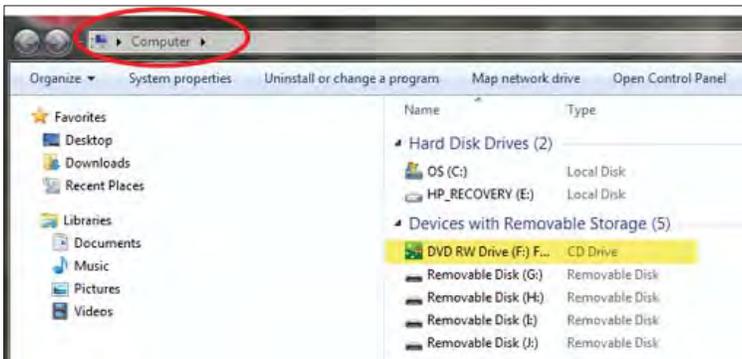
Note: The upgrading process will overwrite existing data on the stock recorder. Import any new data from the stock recorder to your computer before proceeding or that data will be lost.

1. After importing, make a backup of your FarmWorks data on the computer. (**File>Backup**)
2. Exit FarmWorks and close any programs running on your computer.
3. Connect the stock recorder to the computer (if it's not already) and switch it on.

Insert the CD into your computer.

If the installation does not start automatically, look on your computer for the CD drive.

» Double-click on the FarmWorks CD to open the files.



Name	Date modified	Type
Files Currently on the Disc (6)		
FarmWorks	30/10/2014 02:42 ...	File folder
Manuals	30/10/2014 02:42 ...	File folder
Resource Files	30/10/2014 02:42 ...	File folder
Stock Recorder	30/10/2014 02:42 ...	File folder
Autorun.inf	30/10/2012 02:35 ...	Setup Information
RunFarmWorksCD.exe	22/04/2013 09:00 ...	Application

» If the program starts up automatically, choose the **Install / Upgrade Stock Recorder** option.



- » The program should then proceed to upgrade any necessary files in the stock recorder .
- » Start up FarmWorks on the PC, go to **Data Transfer** and send data to the stock recorder as normal.
- » Start up the program on the stock recorder and select the **Information** button.
- » Check that the version number matches the latest you have been sent – if it does, the upgrade was successful and the stock recorder is ready to use.

Note: You must do a data transfer from the PC to the stock recorder after upgrading before you can use it!

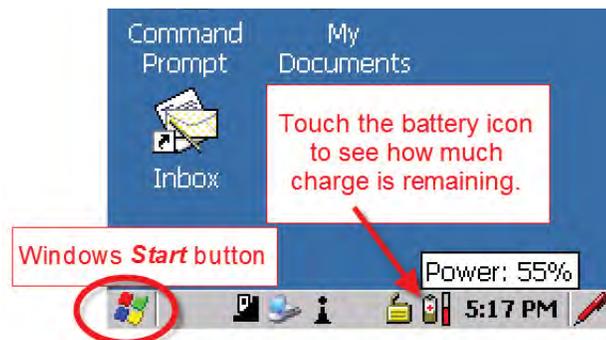


Learn the Desktop

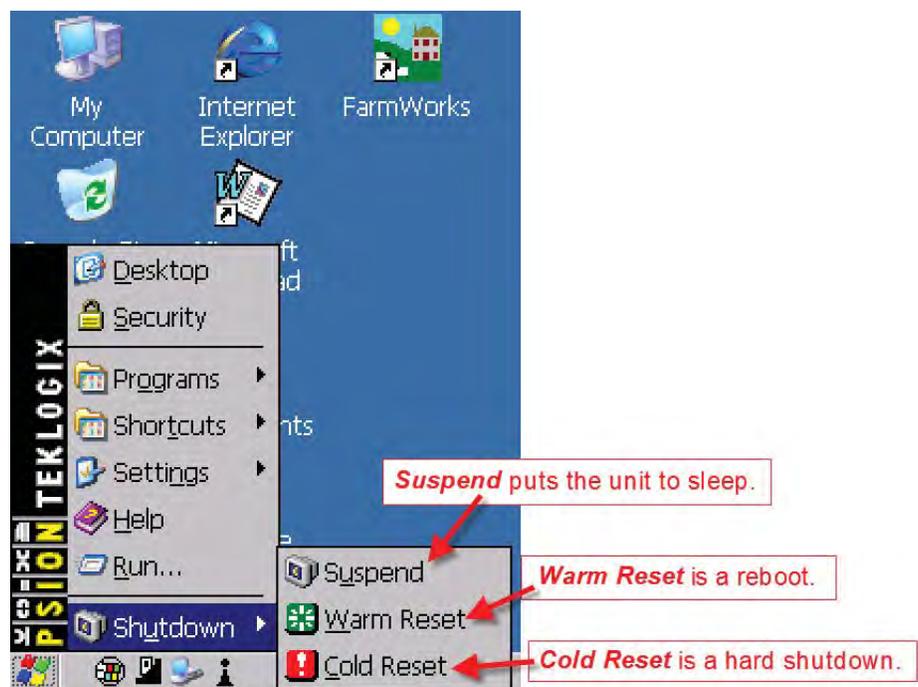
The stock recorder is a computer running the Windows CE operating system. The desktop and many of the functions will be familiar to Windows users.

Basic controls

- The task bar at the bottom of the screen shows the **Start** button (Windows icon), the time (tap to view the date) and several other icons.
- Press the small red bar on the right side to show how much battery power is left. The stock recorder will work reliably down to about 5%. A low power warning will appear on the screen when the battery is in danger of going flat.



- The unit can be turned off, rebooted or shut down by tapping the **Start** button in the bottom corner. Select **Shutdown**, then choose an option. **Suspend** will turn off the unit to save the battery - the unit is “asleep” until the power button is pressed again.
- **Warm Reset** is the equivalent of rebooting a computer. This option could be used if the unit is malfunctioning.
- **Cold Reset** is like a hard shutdown of any computer and is a last resort if the unit has completely stopped responding. FarmWorks will not be damaged by a cold reset but anything else not saved in permanent memory may be lost.

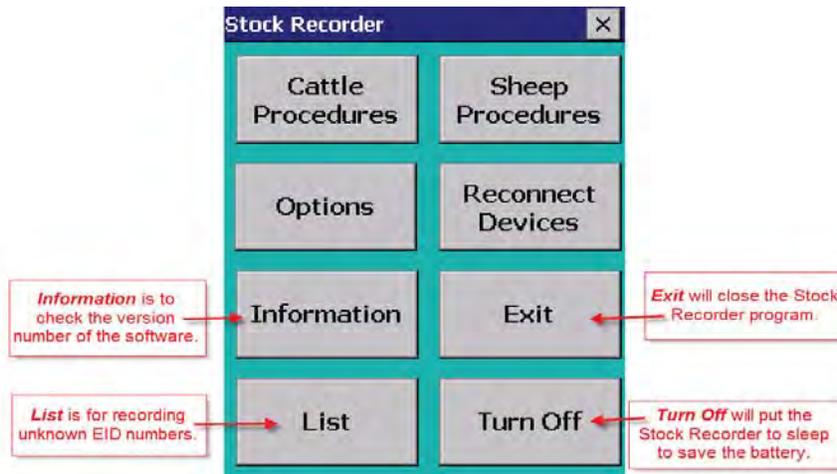


Main Menu



Turn on the stock recorder by pressing and holding the power button (see page 5). Touch the FarmWorks icon to highlight it - either press the <Enter> key or double-tap the icon itself to launch the program. It may take several seconds for the program to load.

- The main menu screen allows you to choose between cattle and sheep procedures if you intend to record data.
- To explore **Options**, see page 13.
- **Reconnect Devices** is used when your Psion stock recorder has Bluetooth links to other equipment.
- Tap the **Information** button to see which version of the Stock Recorder program installed. This is important to know when upgrading your software.

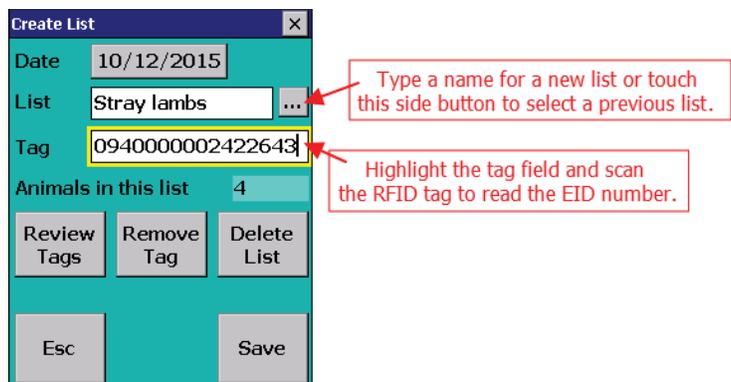


Lists on the stock recorder

The **List** button is a feature to allow recording of EID numbers for animals that are not necessarily already entered in your FarmWorks data. You can scan animals to make a list of tag numbers, and then after importing, view and print the list from **FarmWorks > Reports > Stock Recorder Animal Lists**.

Note: Animals scanned through the List function will NOT be added to your FarmWorks records!

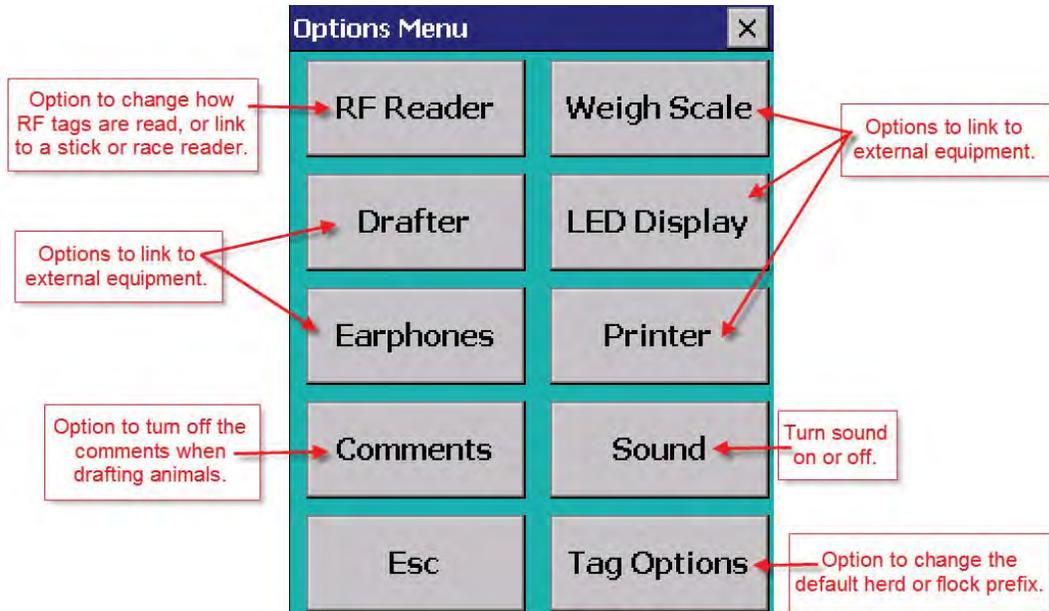
- Type a name for a new list or choose from a list of existing names by tapping the button with three dots to the right of the **List** name field.
- Scan the first animals' RF tags. Use the bottom buttons to view the tags you've scanned, remove certain tags from the list, or delete the list altogether.
- Transfer data from the Psion stock recorder to FarmWorks on the computer.
- To view or print a list, open **Reports > Stock Recorder Animal Lists**





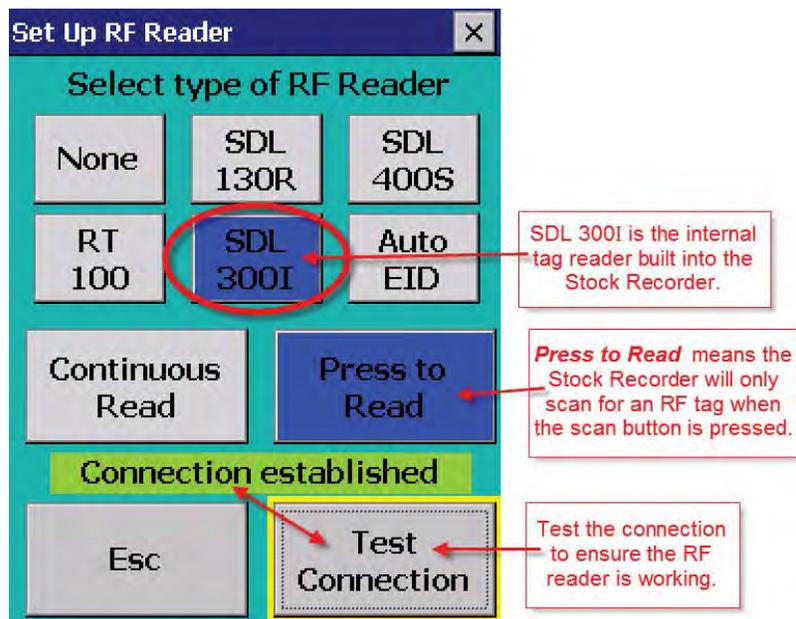
Options

There are some features on the stock recorder that can be changed to suit different situations. Tap **Options** on the first screen to open the menu.



RF Reader

- The default RF Reader should be set to SDL300I.
- **Press to Read** means the internal tag reader will only scan for an RF tag when the side scan button of the Stock Recorder is pressed.
- **Continuous Read** can be useful for scanning large batches of animals. See the instructions on page 16.
- Press **Test Connection** to ensure the RF reader is working properly.
- The other options are for connecting to stick readers or a race reader in a drafting crate. Ask your vendor for instructions to connect other RF readers.





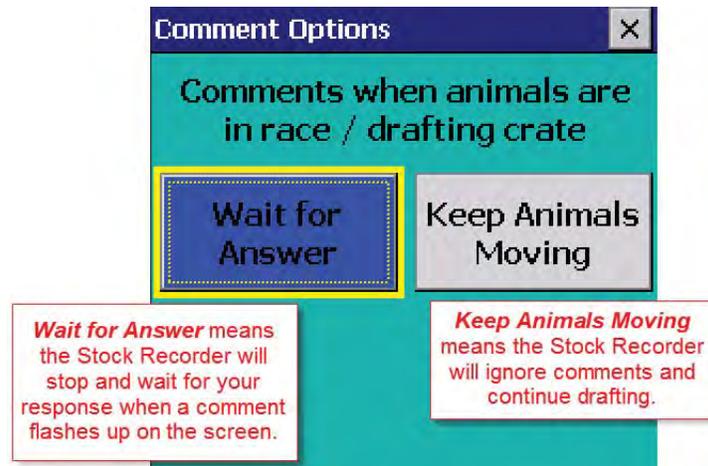
Options

- Weigh Scale**
- Drafter**
- LED Display**
- Earphones**
- Printer**

– These are external devices that can be linked to the stock recorder. Ask your vendor for instructions for connecting each specific piece of equipment.

Comments

- You can add comments to an animal’s record with the stock recorder. See page 17 for instructions. When a comment is added you have the option to **Show When Next Handled**, which means the next time that RF tag is scanned your comment will come up on the screen.
- Under the **Options** menu, the **Comments** button will allow you to turn off all comments, which will speed the process when you are drafting large groups of animals.

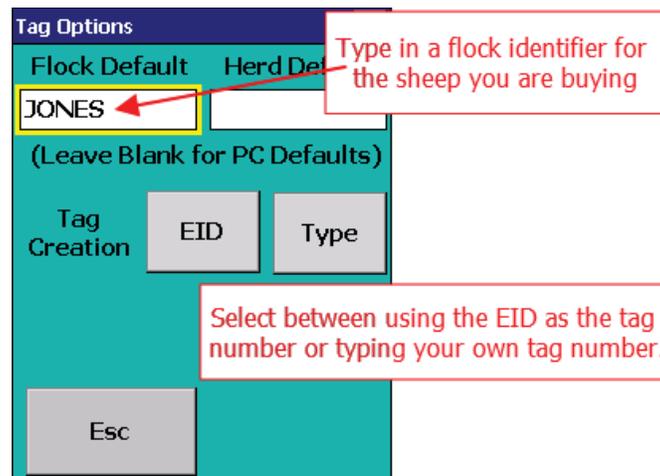


Sound

- Turn all the audible alerts on or off.

Tag Options

- Change the default flock or herd number when you are purchasing animals, otherwise leave both fields empty.
- Remember to remove this other flock/herd number before you start working with your own animals.



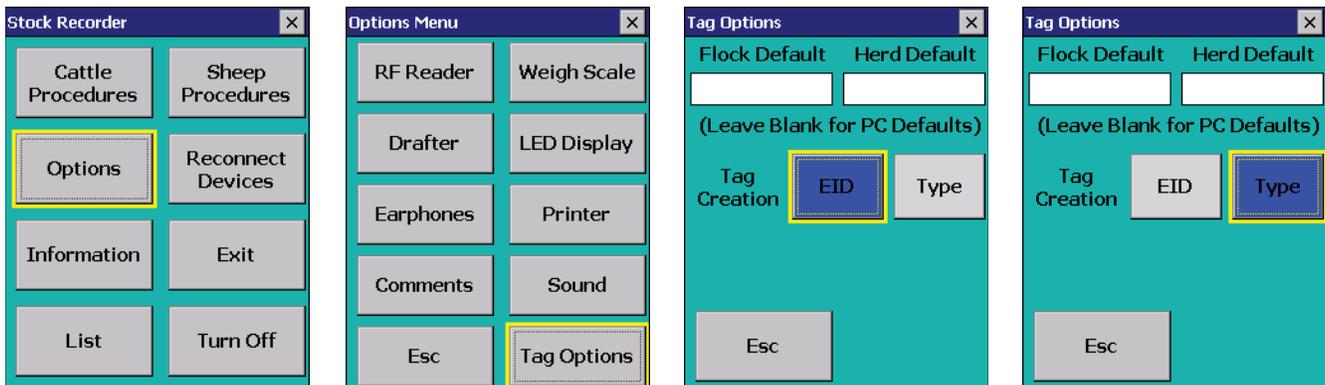


Tag Options

Sheep can be entered into FarmWorks just by scanning their RFID tags with the stock recorder and entering their details. You can use Option 1 - your own tag numbers, or Option 2 - the last part of the EID number, as the tag number in FarmWorks. See the FarmWorks manual for more information on numbering your sheep.

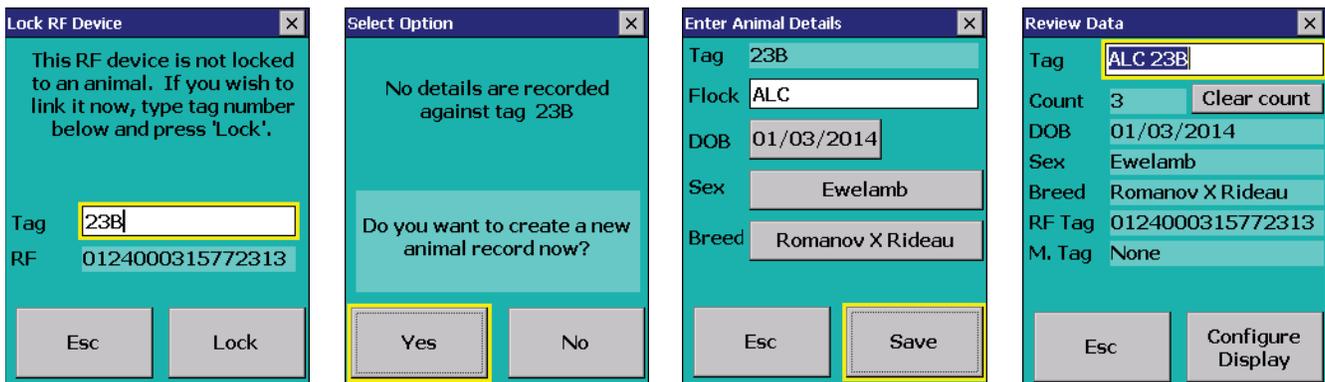
Select which Tag Option you want to use before you start:

- » Open FarmWorks on the stock recorder.
- » Tap **Options**. Tap **Tag Options**.
- » Select **EID** to use the last 9 digits of the EID number as the FarmWorks tag number.
- » Select **Type** to be able to type in your own farm tag number as the FarmWorks tag number.
- » Tap **Esc** to exit.



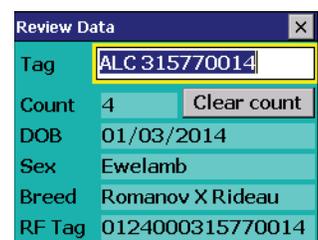
Option 1 - use your own farm tag numbering system.

- » Open FarmWorks on the stock recorder. Go to **Review Data**.
- » Scan a sheep's RFID tag. Type in the tag number you want to use. Tap **Lock**.
- » The tag is unknown. Tap **Yes** to create a new record.
- » Add animal details - tap the **DOB** button to change the date of birth. Tap **Sex** to select a gender.
- » Tap **Breed** to select a breed. To see more breeds, select **Other**. To jump through the list faster, type the first letter of the sheep breed you're looking for. (S for Suffolk, T for Texel, etc.)
- » Press **Save** to finish. A new animal record has been created and will be added to FarmWorks when you **Get Data from Stock Recorder** at the next Data Transfer to the computer.



Option 2 - use the last 9 digits of the EID number

- » Open FarmWorks on the stock recorder. Go to **Review Data**.
- » Scan a sheep's RFID tag. The Tag number is filled in.
- » Add animal details - date of birth, breed and sex.
- » Press **Save** to finish. A new animal record has been created and will be added to FarmWorks when you **Get Data from Stock Recorder** at the next Data Transfer to the computer.





Reading RFID Tags

Reading tags electronically

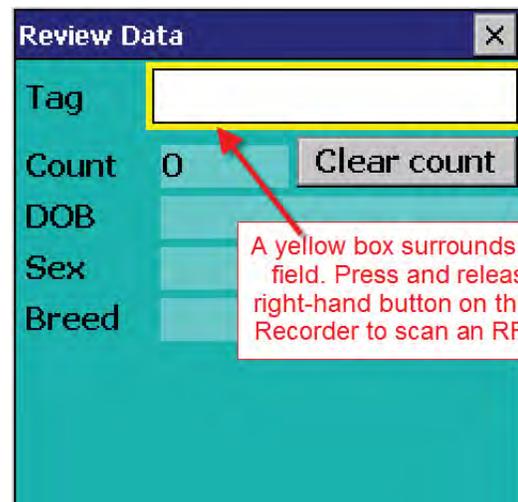
The stock recorder has two large buttons, one on each side, that are used for FarmWorks. The button on the right-hand side is used to read an RFID ear tag. When the tag field is highlighted on the screen, press and release the right-hand button to read the tag. When the tag number is displayed and the tag field is highlighted, the left-hand button can be pressed to show the animal's details.

Entering tags manually

- Type in the tag number, then press the **<Enter>** (**<Return>**) key on the keyboard.
- Tap **Save** to save the record.
- Where "enter a tag number" is referred to in this manual, this assumes the tag is being entered by typing the number in manually.
- Management tags can be added or used by typing a full-stop and then the number – for example .21 – in any tag number field. See page 28 for how to add management tags.



Right-hand scan button
- Press and release



A yellow box surrounds the tag field. Press and release the right-hand button on the Stock Recorder to scan an RFID tag.



When a tag number is highlighted in the tag field, press and release the left-hand button of the Psion to see the animal's details.



Left-hand button
- Press and release



Reading RFID Tags

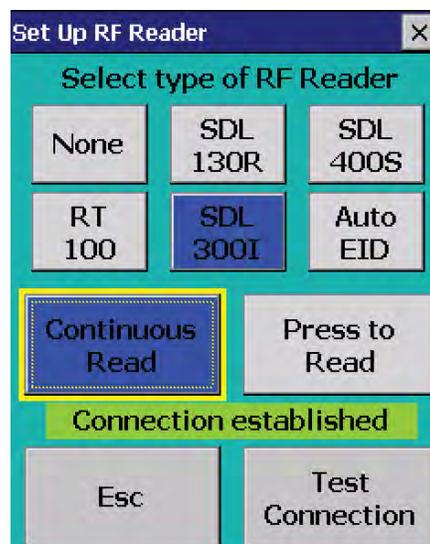
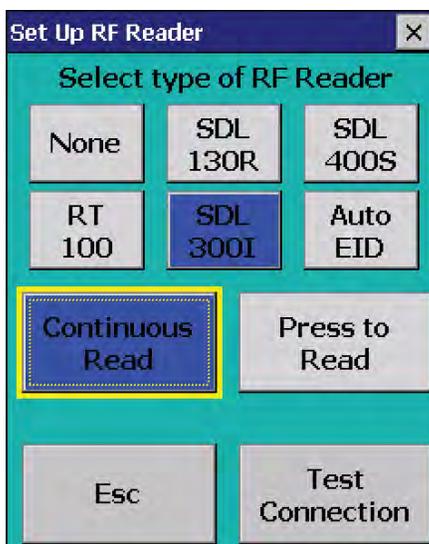
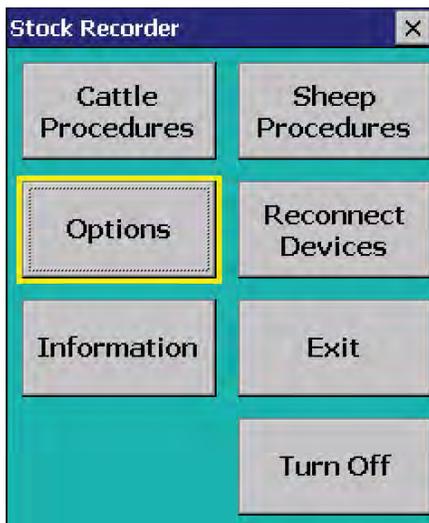
Option for Continuous Read

There is an option for reading RFID tags that can be useful when scanning large batches of animals. Instead of pushing the right-hand scan button to read a tag, the stock recorder can be set to “Continuous Read” mode. In a situation where many animals in a race need to be scanned, the **Continuous Read** setting saves having to press the scan button for each EID.

Continuous Read is constantly trying to detect EIDs when the tag number field is active, so uses substantially more battery power than the **Press to Read** setting.

To activate the **Continuous Read** setting:

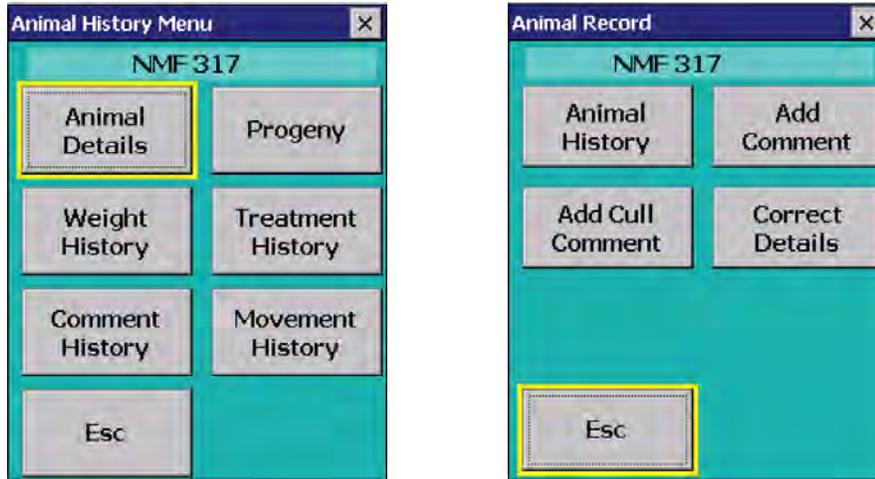
1. Open FarmWorks program on the stock recorder. Select **Options** then **RF Reader**
2. Ensure SDL300I is the RF Reader highlighted. Select **Continuous Read**.
3. Press **Test Connection** to confirm the change.





Looking Up Animal Records

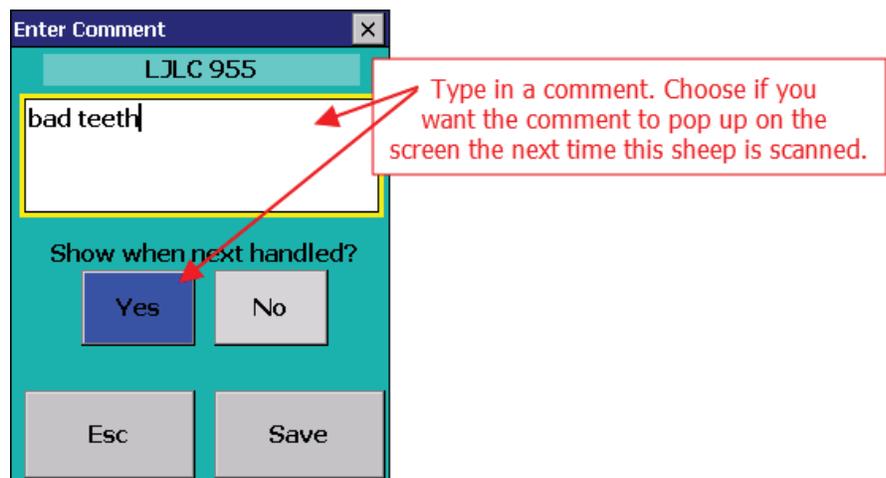
The left-hand button on the stock recorder opens the **Animal Record** screen, which has a number of different screens available for viewing an animal's details and history. Most of the screens are only for viewing, not for adding information.



Animal Details shows the date of birth, sex, breed, sire, dam, location and other details. This screen is for viewing only - you can not add any data.



Add Comment or **Add Cull Comment** allow you to type in a comment about this animal that becomes part of its permanent record once the stock recorder is downloaded into the computer. You can create FarmWorks reports based on the comments you record.





Looking Up Animal Records

The **Comment History** is for viewing all comments recorded against an animal.

Comment History [X]

LJLC 955

hard bag left side

(Date entered: 14/02/2011)

Show when next handled? Yes

Comment History [X]

NMF 317

Cull Animal:
Bad udder, hard one side

(Date entered: 05/08/2012)

Show when next handled? Yes

The **Progeny** screen shows the number of lambs a ewe has had in her lifetime, plus details of any of her lambs still on the farm. A ram's **Progeny** record will show the lambs he sired that are still on farm.

Progeny Details [X]

LJLC 955

Total progeny 7

Last lambd 12/02/2010

Progeny Details (where held)

Tag NMF 317

DOB 12/02/2010

Sex Ewelamb

Record 1 of 1

Esc Only one progeny record for this animal

Lifetime total of lambs born to this ewe.

Details of any progeny still on farm.

Weight History [X]

NMF 317

Date	Kg	Score	Grade
24/02/11	135.0		
17/02/11	130.5		
04/11/10	12.0		

Esc

The weight history shows every weight recorded for this sheep, starting with its birth weight.

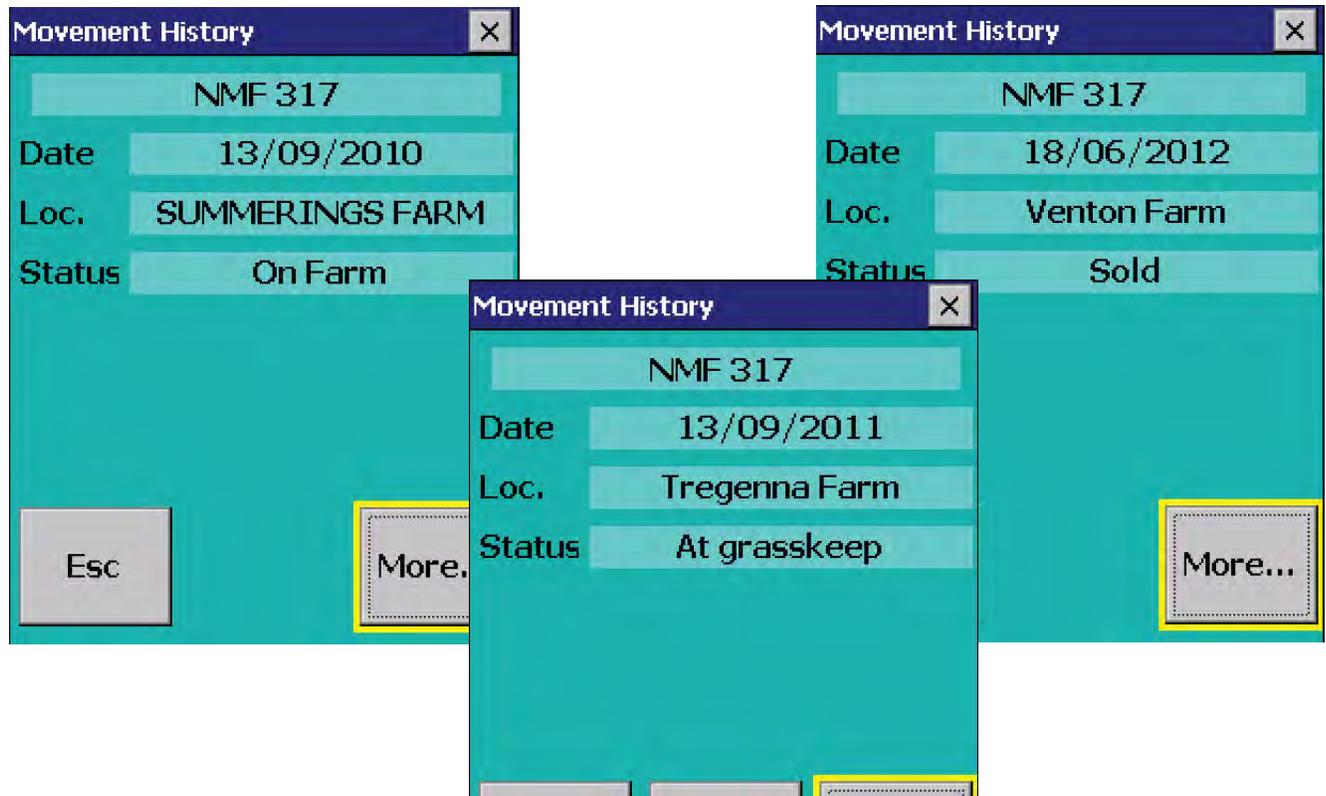
The **Weight History** screen shows every weight, body condition score and grade recorded against an animal.

The weight can be either pounds or kilograms.

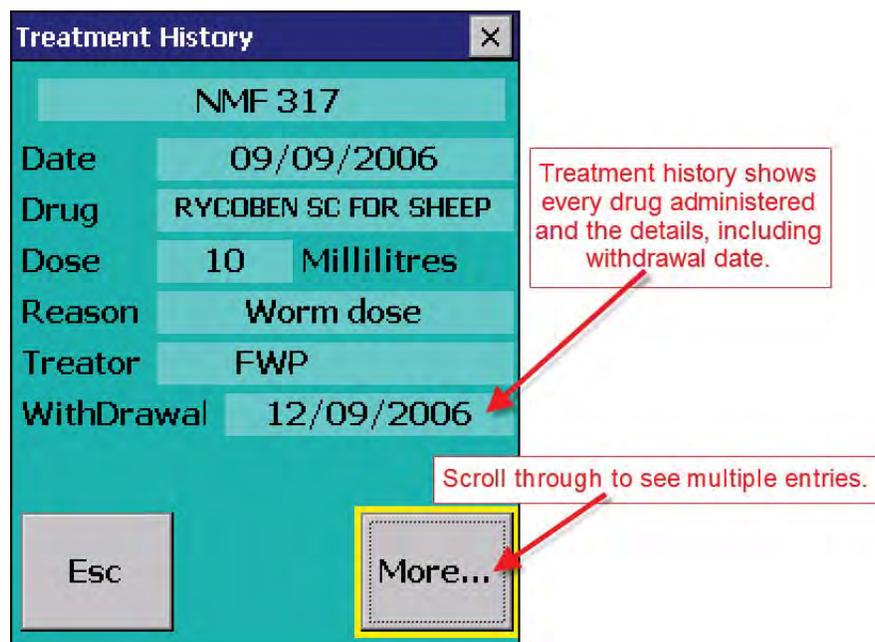


Looking Up Animal Records

The **Movement History** screen shows the date the animal moved on to the farm, either born or purchased, all on-farm and off-farm movements that were recorded, and where the animal was finally shipped to.



The **Treatment History** screen shows all the veterinary treatments recorded for the animal, and details like date, dose, and the drug withdrawal date after which the animal can be safely slaughtered.





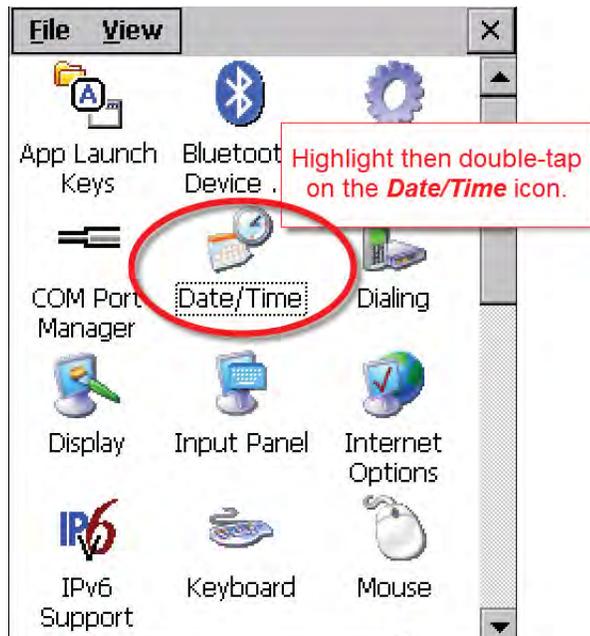
Date and Time Settings

Your stock recorder may have an incorrect date or time setting that results in error messages when you try to import data to your computer.

Note: Never make changes to the date or time format without being expressly instructed to by Shearwell support. Some settings are critical for proper functioning and should not be tampered with!

Changing the date or time

1. Close the FarmWorks program on the stock recorder.
2. On the stock recorder desktop, double-tap the **My Device** or **My Computer** icon, or tap the **Start** button on the bottom left-hand corner of the screen.
3. Double-tap the **Control Panel** icon.
4. Double-tap on the **Date/Time** icon.
5. Change the time and date if needed.
6. Find the **Time Zone** settings at the bottom of the screen. Change to the correct time zone if needed.
7. Press **Apply** to save your changes.



Data Transfer



You cannot use your stock recorder until you have sent your farm details from FarmWorks on the computer to your stock recorder.

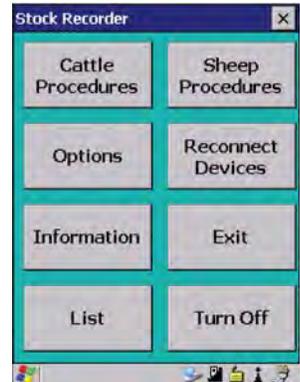
Data Transfer - Send data to the stock recorder

- » Place the stock recorder firmly in the cradle, with the power and USB leads connected. The stock recorder desktop must be visible, with FarmWorks closed.

Stock recorder desktop - FarmWorks closed



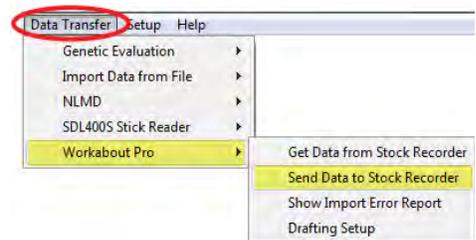
Stock recorder desktop - FarmWorks open



- » Open Windows Mobile Device Center on your computer. (Look for a green circle icon or use the search function. See the stock recorder installation guide for more help with this program.)
- » Look for the green tick to show the stock recorder is connected.



- » Open FarmWorks on your computer.
- » Go to **Data Transfer > Workabout Pro > Send Data to Stock Recorder**.
- » Click on **Send Data to Stock Recorder**
- » Note the warning message but carry on if this is the first time you are transferring data - click **OK**.
- » If your data was successfully transferred then your stock recorder is ready to use.





Transfer Data

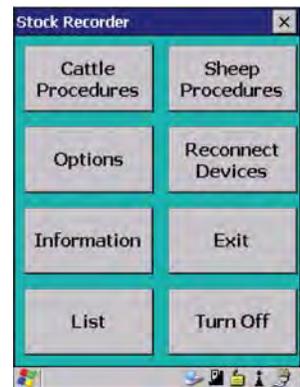
Data Transfer - Send data to the stock recorder

- » Place the stock recorder firmly in the cradle, with the power and USB leads connected. The stock recorder desktop must be visible, with FarmWorks closed.

Stock recorder desktop -
FarmWorks closed



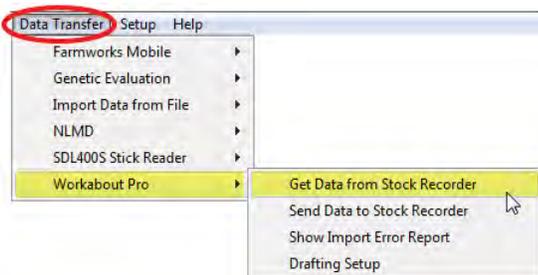
Stock recorder desktop -
FarmWorks open



- » Open Windows Mobile Device Center on your computer. (Look for a green circle icon or use the search function. See the Psion stock recorder installation guide for more help with this program.)
- » Look for the green tick to show the stock recorder is connected.



- » Open FarmWorks on your computer.
- » Go to **Data Transfer > Workabout Pro > Get Data from Stock Recorder**.
- » Click on **Get Data from Stock Recorder**.



- » If there are any warning messages you have the option to read them now, or you can look at them later through the Data Transfer > Workabout Pro menu. These warning messages are there for a reason - read and act on them if necessary, before you use the stock recorder again!

Opening FarmWorks on the Stock Recorder



- To start FarmWorks on the stock recorder, either touch the FarmWorks icon on the screen so that it is highlighted (FarmWorks will have a dark blue background with a dotted yellow line around the text) and then press the **Enter** key, or double tap on the FarmWorks icon with your finger or the stylus.
- The program will take about ten seconds to start up.



- If you have previously had Bluetooth devices linked to the stock recorder, you will be presented with a **Reconnect devices** screen. If you want to reconnect to them, select as required, make sure they are turned on and fairly close by, then press **Connect**.
- If you do not wish to reconnect, just tap **Escape**.
- You are then taken to the main menu.





Adding Animals into FarmWorks

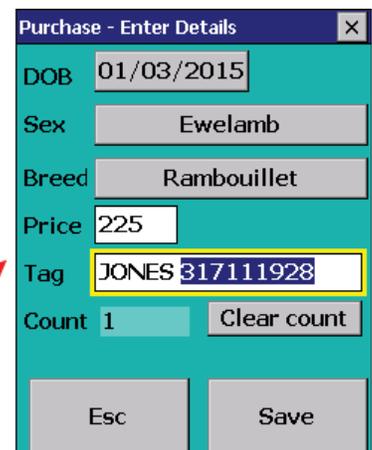
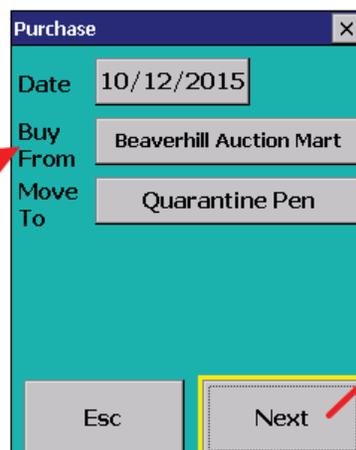
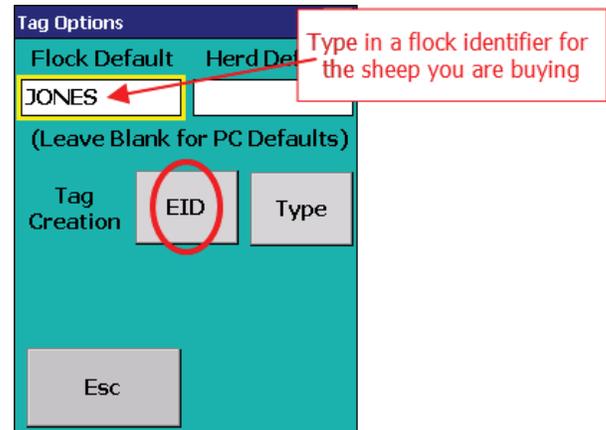
Sheep can be entered into FarmWorks by scanning their RFID tags with the stock recorder and entering their details. Those animal records will be added into your FarmWorks when you next do a **Data Transfer** from the stock recorder.

- Purchased sheep can be scanned in through the Purchase screen if you want to enter details such as price, when, where, or who they were purchased from, with a different tag prefix than your own flock letters.
- Sheep born on your farm can be scanned in through the Review Data screen.
- Sheep records entered into FarmWorks on the computer can have an EID locked to their tag number the first time you scan their RFID tag.

Before you start adding sheep with the stock recorder, you must first enter the holdings, farms, dealers, breeds or markets into FarmWorks on the computer, in order to be able to select them when you are using the stock recorder. Read the FarmWorks manual about setting up your farm before you start.

Enter sheep through the Purchase screen: Tag Option - EID (see page 14 for setting Tag Options)

- Go to **Options > Tag Options**. Type in a flock identifier that will be useful to you in your records. Select **EID**.
- Go to **Sheep Procedures > Purchase**. Select the date of purchase.
- Select where the animal was purchased from, i.e. holding (farm or dealer) or market. (These must be entered into FarmWorks on the computer beforehand)
- Select where the animal is being moved to – typically your own farm, but could be to another holding or to a specific location within your own farm.
- Tap **Next**.
- Enter date of birth, sex, breed and purchase price of the animal. By default the date of birth will be the 1st March that has just passed but you can change the day, month or year.
- With the **Tag** field highlighted, scan the RFID tag. The new Flock Default is added as the prefix and the last nine digits of the EID are the tag number.
- Press **Save** – you will see that all the previous details are retained – provided they still apply, all you need to do is scan the next animal.
- If you are scanning RFID tags, after the first tag there is no need to tap **Save** in between animals.





Adding Animals into FarmWorks

Enter sheep through the Purchase screen: Tag Option - Type (see page 14 for setting Tag Options)

1. Go to **Options > Tag Options**. Leave the Flock default blank. Select **Type**.
2. Go to **Sheep Procedures > Purchase**. Select the date of purchase.
3. Select where the animal was purchased from, i.e. holding (farm or dealer) or market. (These must be entered into FarmWorks on the computer beforehand)
4. Select where the animal is being moved to – typically your own farm, but could be to another holding or to a specific location within your own farm.
5. Tap **Next**.
6. Enter date of birth, sex, breed and purchase price of the animal. By default the date of birth will be the 1st March that has just passed but you can change the day, month or year.
7. With the **Tag** field highlighted, scan the RFID tag.
8. It is a new, unlocked EID. Type in a prefix (like the seller's name or flock letters), leave a space, then type in a number to use as a tag number (from a plastic or metal tag for example).
9. Press **Save**. All the previous details are retained - all you need to do is scan the RFID tag of the next animal and type in its tag number.

Enter sheep through the Review Data screen: Tag Option EID

1. Set **Tag Options**. Leave the **Flock Default**. Select **EID**. See page 14 for more information about Tag Options.
1. Go to **Sheep Procedures > Review Data**. Scan the first tag.
2. Set the DOB (date of birth), sex and breed. Press **Save**. Scan the next RFID tag.



Adding Animals into FarmWorks

Enter sheep through the Review Data screen: Tag Option Type

1. Set your **Tag Options**. Leave the **Flock Default** blank so your own prefix will be applied to each animal. Select **Type**. See page 14 for more information about Tag Options.
1. Go to **Sheep Procedures > Review Data**. Scan the first tag.
2. Type in the number from the sheep's visual tag. If that number is not already in FarmWorks press **Yes** to create a new animal record.
3. Set the DOB (date of birth), sex and breed. Press **Save**.
4. Scan the next sheep.

Review Data

Tag

Count 0

DOB

Sex

Breed

RF Tag

Esc

Lock RF Device

This RF device is not locked to an animal. If you wish to link it now, type tag number below and press Lock.

Tag

RF 0124000315772732

Esc

Select Option

No details are recorded against tag 75B

Press Yes to create a new animal record.

Do you want to create a new animal record now?

Scan the first RFID tag.

Type in a tag number. Press Lock.

Press Yes to create a new animal record.

Enter Animal Details

Tag 75B

Flock OAKLANE

DOB 01/03/2012

Sex Ram

Breed Rambouillet

Esc

Select a birth date, sex and breed. Press Save.

Review Data

Tag OAKLANE 75B

Count 1

DOB 01/03/2012

Sex Ram

Breed Rambouillet

RF Tag 0124000315772732

Esc

This new animal has a tag number that is linked to an EID from its RFID tag. When the RF tag is scanned, its tag will read as 75B.

Enter sheep through the Review Data screen: Tag Option EID

1. Set your **Tag Options**. Leave the **Flock Default** blank so your own prefix will be applied to each animal. Select **EID**. See page 14 for more information about Tag Options.
1. Go to **Sheep Procedures > Review Data**. Scan the first tag.
2. Set the DOB (date of birth), sex and breed. Press **Save**. The last 9 digits of the EID are the animal's tag number.
3. Scan the next sheep.

Review Data

Tag OAKLANE 315772258

Count 2

DOB 01/03/2010

Sex Ewe

Breed Targhee

RF Tag 0124000315772258

Esc



Linking EIDs to Existing Animals

Linking an EID tag to an existing animal

Sheep records entered on the computer will not have an EID until they are scanned for the first time with the stock recorder. Note - this method is not applicable if you are using a tag file (tag bucket) or the EID option under Tag Options. (See page 14 for Tag Options).

- » Open FarmWorks on the stock recorder. Go to **Review Data**.
- » Scan the RFID tag. Type in the animal's tag you want to lock to this EID. Tap **Lock**.
- » Your flock ID and animal details (birth date, sex, breed) recorded in FarmWorks for that animal now include an EID from its RFID tag.
- » Sheep records will be updated with EID numbers the next time you do a **Data Transfer > Get Data from Stock Recorder**.

The image shows three sequential screenshots of the FarmWorks software interface on a handheld device:

- First Screenshot:** The 'Review Data' screen shows a 'Tag' field with a yellow border. A red arrow points from this field to the second screenshot. A callout box says: "Apply an RFID tag to a sheep already in FarmWorks. Scan the new tag with the Psion."
- Second Screenshot:** The 'Lock RF Device' screen displays the message: "This RF device is not locked to an animal. If you wish to link it now, type tag number below". The 'Tag' field contains 'B612' and the 'RF' field contains '0124000315770732'. A red circle highlights the 'Lock' button. A callout box says: "Type in the sheep's farm tag number. Press Lock."
- Third Screenshot:** The 'Review Data' screen shows the 'Tag' field now containing 'JEFF B612'. The 'Count' is 1. Other fields include 'DOB: 16/01/2015', 'Sex: Ewelamb', 'Breed: Romanov x Charollais', 'Dam: RICHEY P3887', and 'Sire: CHES 51B'. A callout box says: "This animal record was already in FarmWorks. This sheep now has an EID locked to its farm tag."



Management Tags

Sheep that are in your FarmWorks records with a tag number and an EID number can also have a Management Tag number that is cross-referenced to their other tags. The management tag does not have to be unique and can be any combination of letters and numbers. You can add a management tag to any animal with the stock recorder (or through Animal Details in FarmWorks on the computer).

Adding a management tag to an existing animal

1. Go to **Sheep Procedures > Review Data**. In the Tag field type a dot (period) followed by the name or number you want as the management tag.
2. Press the **Enter** key on the keyboard. Scan the sheep's RFID tag.
3. Press **Link**. The sheep now has a management tag number.

Start with a dot (period) then type the management tag number. Press the <Enter> key.

Scan the RFID tag.

Management tag not linked to an animal.
.G41
To link this management tag to an animal, enter official tag number below and 'Link'.

Management tag not linked to an animal.
.G41
To link this management tag to an animal, enter official tag number below and 'Link'.
OAKLANE 315770497

Press Link to add this management tag number to this sheep.

Review Data

Tag OAKLANE 315770497

Count 1 Clear count

DOB 09/12/2015

Sex Ewelamb

Dam NMF 317521657

M. Tag G41

Age 2 days

New management tag number.

Anytime you are using the stock recorder you can type the management tag number into the tag field instead of the FarmWorks tag number or scanning the RFID tag.

- To tell the stock recorder that it is a management tag you must type in a dot (period) and then the number, then press the <Enter> key on the stock recorder keyboard. The animal's FarmWorks tag number will be displayed.

Review Data

Tag .G41

Count 0 Clear count

Start with a dot, then type the management tag. Press the Enter key on the Psion keyboard. The real tag number will be displayed.

Review Data

Tag OAKLANE 315770497

Count 1 Clear count

DOB 09/12/2015

Sex Ewelamb

Dam NMF 317521657

M. Tag G41

Age 2 days

FarmWorks tag

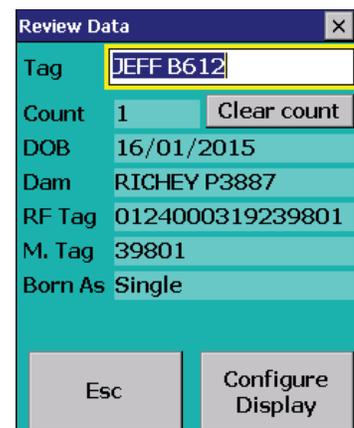
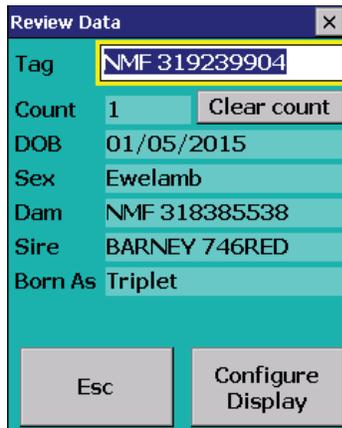
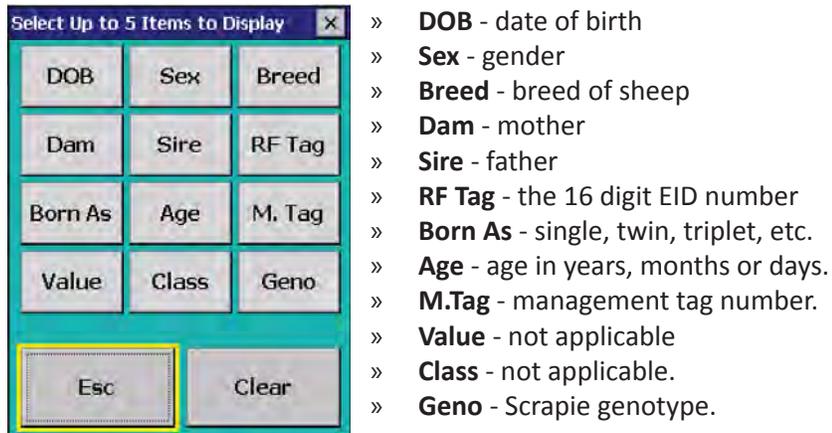
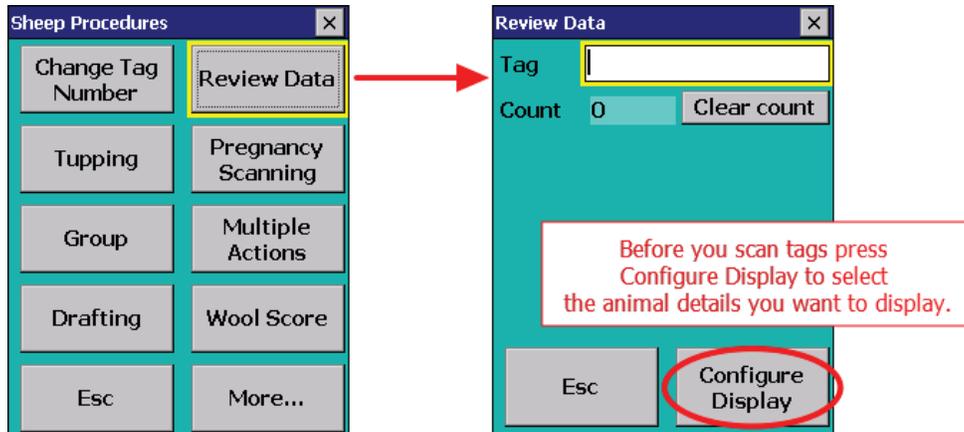
Management tag



Review Data

The Review Data function is for counting and identifying animals as they come through a chute. Basic information about each animal is displayed, and up to five traits can be selected for that display.

1. Open **Sheep Procedures > Review Data**.
2. Select **Configure Display**.
3. Choose up to five traits to be displayed and tap **Escape**.
4. Scan each animal. A count is made - an animal scanned twice will not be counted twice.





Wool Score

Wool Score was designed for you to assign a number score to each sheep, based on fleece quality. Many farmers use it to score their animals on other traits besides wool - udders, horns, shedding, etc.

The scoring system is your personal choice - a one-digit score recorded against an animal that can be used to make a report in FarmWorks on the computer.

- Decide on your scoring system and set the default score. This is the number that will be assigned to each sheep unless you enter a different score.
- Use a simple sliding scale, like 1 to 3, 1 to 5, or 1 to 9. Then make the default the median (or middle) number on the scale. Animals that are typical (or average) for that trait can keep the default; animals that are better than average can have a higher score; and animals that are worse than average can be scored lower.

1. Go to **Sheep Procedures > Wool Score**
2. Set the default.
3. Scan each sheep. If the animal is typical then leave the default and press **Save**.
4. If the sheep is better or worse than average then change the score. Press **Save**.

Change Tag Number	Review Data
Tupping	Pregnancy Scanning
Group	Multiple Actions
Drafting	Wool Score
Esc	More...

Date	14/12/2015	
Tag		
Score		
Count	0	Clear count
Esc	Default	Save

Default Score	3
Esc	Save

Date	14/12/2015	
Tag	JEFF B612	
Score	2	
Count	1	Clear count
Esc	Default	Save



Multiple Actions

The stock recorder has an option to record up to three actions at one time, to save having the same sheep pass through the race for separate functions. Most of the distinct functions can be combined under Multiple Actions and all the information collected by the stock recorder (weights, tags, groups, movements, etc) is transferred into the appropriate section of FarmWorks on the computer.

1. Open Cattle or Sheep Procedures. Go to **Multiple Actions**.
2. Select up to three actions. The actions must all be different - only one type of weight, one treatment, one group, etc. *Note: If you want to record two or three treatments for the same animals, scan those animals into a management group and record the treatments on the computer later.*
3. Scan the first animal's tag. You must enter whatever information is required for the actions you have chosen:
 - **Movement** requires you to pick a destination
 - **Treatment** requires you to select a medicine and dose.
 - **Tup/service** requires you to enter a sire tag.
 - **Group** requires you to enter or select a management group.
 - **Sales** and **Purchase** require the buyer or seller to be selected.
4. Tap **Save**.
5. Subsequent animals will have the chosen three actions applied to them. The stock recorder will pause at screens where input is required for each animal, such as weights and scanning results.

Sheep Procedures

Multi Action

Multi Action

Select 2 or 3 actions, then press Start.

Select Procedure

Select Procedure

Select Procedure

Pick up to three actions to be recorded at once.

Only one type of weight can be selected.



Drafting

There are several methods for sorting animals using the stock recorder.

- Draft by Weight Alone - The simplest process for separating out animals by setting weight parameters - tag numbers are not required or recorded. For example, lambs weighing below 50 lbs go out of a certain gate, lambs over 100 lbs go out of another gate, and lambs in between those two weights keep going forward.
- Draft by Weight - Similar to drafting by weight alone - set the weight parameters and which gates will open. However this option also allows you to put the animals into management groups as they are drafted, making further sorting or handling easier. This option requires the animals to have RFID tags and the EID numbers are recorded by the Stock Recorder.
- Draft by Drafting Group - This method allows for drafting by any criteria, set up through FarmWorks on the computer. For example, ewes nursing twins can be separated from those with single lambs, or breeding groups to be put to certain rams can be sorted into different pens.

Drafting by weight

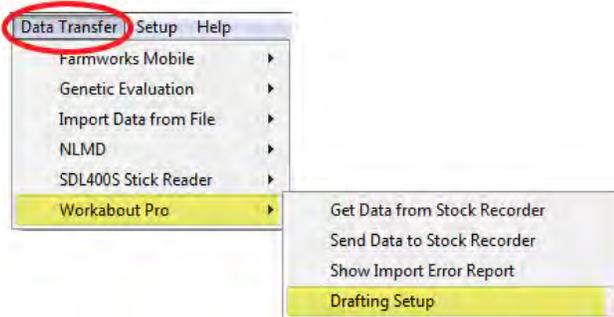
- Save weight: Usually the weight of each animal is saved to calculate rate of gain or track body condition.
- Draft into management groups: This is a way to double-check the count and tag numbers of animals drafted out of each gate.
- Set your weight parameters if drafting by weight. There will be three groups - animals below a minimum weight, animals above a maximum weight, and all the animals that fall in between those two weights.
- Decide which gates will be used for the three different groups: R = right, L = left, and F = forward (animals will go straight ahead).
- Type in a name for the new management groups from the different gates.
- When an animal is scanned and a weight is entered, the stock recorder will indicate which gate (left, right or forward) should be opened.



Create Custom Drafting Groups

You can use any criteria for sorting animals by creating custom drafts in FarmWorks on the computer, then transferring the draft to the stock recorder. Then when you open the drafting function on the stock recorder your custom drafts can be selected instead of the Draft by Weight or Draft by Weight Alone options.

Create a custom drafting group in FarmWorks - go to **Data Transfer > Workabout Pro > Drafting Setup**.



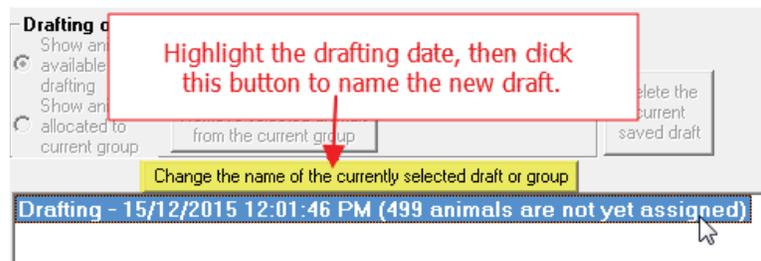
Drafting form

Drafting method selection
Choose the way you want to select animals for drafting

Number of animals selected in grid: 0 out of 503

Type	Flock No.	Ear Tag	Mgt Tag	Breed	Sex	Date of Birth
<input type="checkbox"/> Rams	AARD	221M		Polypay X	Ewe	21/03/2012
<input type="checkbox"/> Wethers	AARD	334N		Polypay X	Ewe	25/03/2013
<input type="checkbox"/> Ewes	AARD	472P		Polypay X	Ewe	18/03/2014
<input type="checkbox"/> Ewe Lambs	AARD	528R		Polypay X	Ewe	06/03/2005
<input type="checkbox"/> Breeding	AARD	534R		Polypay X	Ewe	16/05/2005
<input type="checkbox"/> Non-Breeding	AARD	588R		Polypay X	Ewe	06/03/2005
<input type="checkbox"/> Tag Search	AARD	595R		Polypay X	Ewe	06/03/2005
<input type="checkbox"/> By MgtTag	AARD	766S		Polypay X	Ewe	06/03/2007
<input type="checkbox"/> Select All	AARD	771T		Polypay X	Ewe	12/02/2007
	AARD	811U		Polypay X	Ewe	22/05/2008
	AARD	879U		Polypay X	Ewe	05/03/2008

1. Name the new draft you want to create. Highlight the drafting date in the draft window and click the button - **Change the name of the selected group or draft**.



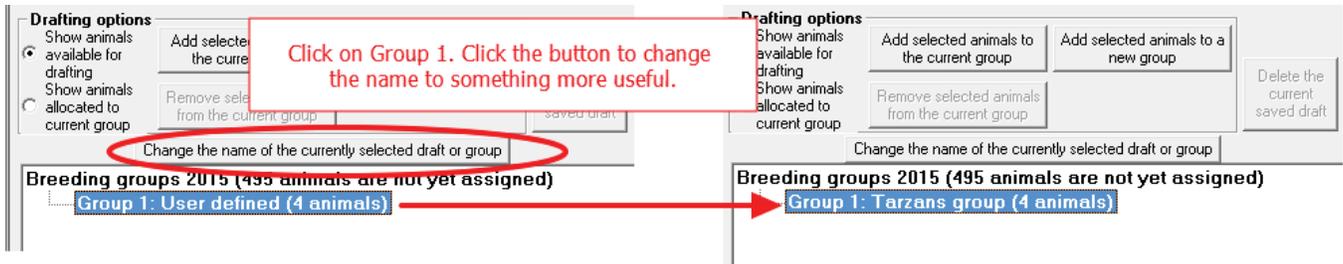


Create Custom Drafting Groups

2. Select animals from the grid to be in the first group. Pick individual sheep or select whole groups. Click on **Add selected animals to a new group**.



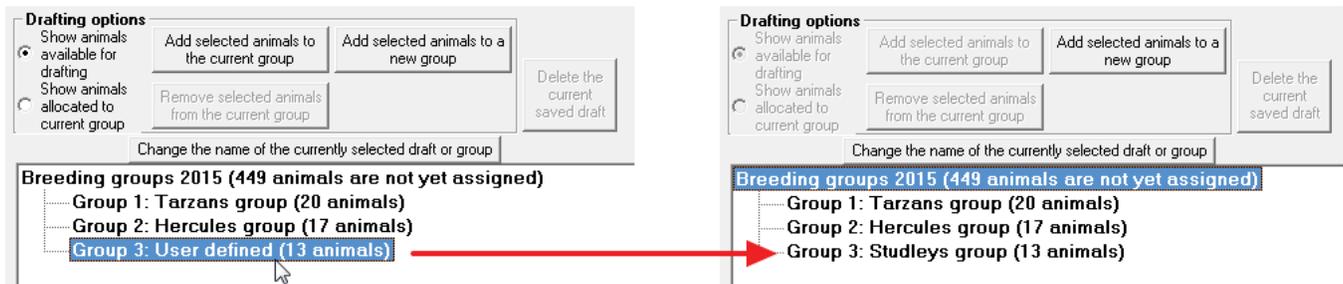
3. Click on **Group 1** in the drafting window. Click the button to **Change the name of this group or draft**.



4. Select more animals from the grid to either add to the first group or start a new group.
5. Click on **Group 2** in the drafting window. Click the button to **Change the name of this group or draft**.



6. Select more animals from the grid to either add to the existing groups or start a new group.
7. Click on **Group 3** in the drafting window. Click the button to **Change the name of this group or draft**.



8. Select more animals from the grid to either add to the existing groups or start a new group.
9. Make as many groups as you want but there are only three possible gates - right, left or forward. If you make more than three groups for any one draft then you will have more than one group going out a gate.



Create Custom Drafting Groups

Save your draft when you are finished selecting animals and re-naming the groups. Your saved draft will be sent to the stock recorder at the next **Data Transfer > Send Data to Stock Recorder**.

Drafting options

Show animals available for drafting
 Show animals allocated to current group

Breeding groups 2015 (449 animals are not yet assigned)

- Group 1: Tarzans group (20 animals)
- Group 2: Hercules group (17 animals)
- Group 3: Studleys group (13 animals)

Click OK/Save to save your draft. It will be sent to the Psion on the next data transfer.

On the stock recorder:

1. Go to **Sheep Procedures > Drafting**. Select your custom draft.
2. Choose whether to save the weight. Select **No** if you do not plan to weigh the animals.
3. Choose whether to create new groups for the sheep that go through each gate.
4. Select the gates you want each group to be sorted out. Animals that come through the chute but aren't in any of the three groups must go somewhere - pick a direction to send them.
5. Scan the first sheep. The stock recorder will show the appropriate gate.

Select Draft

Select Draft Options

Save weight?
 Draft into management groups?

*No to record a weight;
No to create new groups for each gate.*

Drafting

Draft Group	Select Gate		
Tarzans group	<input type="button" value="L"/>	<input checked="" type="button" value="F"/>	<input type="button" value="R"/>
Hercules group	<input type="button" value="L"/>	<input checked="" type="button" value="F"/>	<input type="button" value="R"/>
Studleys group	<input type="button" value="L"/>	<input type="button" value="F"/>	<input checked="" type="button" value="R"/>
Not in a group	<input type="button" value="L"/>	<input type="button" value="F"/>	<input type="button" value="R"/>

*Pick a gate for each group.
Pick a direction to send any sheep not in any group.*

Draft Animals

Tag:

Draft: Tarzans group

←

Draft Animals

Tag:

Draft: Hercules group

↑

Draft Animals

Tag:

Draft: Studleys group

↗



Trouble-shooting

The stock recorder is a handheld computer; closing it down and restarting is sometimes required.

1. Touch the Windows button in the bottom left corner of the screen.
2. Select **Shutdown**
 - **Suspend** will turn off the unit to save the battery - the unit is “asleep” until the power button is pressed again.
 - **Warm Reset** is the equivalent of rebooting a computer. This will clear any error messages and resolve most problems. Don’t worry - your FarmWorks data is safe!
 - **Cold Reset** is like a hard shutdown of any computer and is a last resort if the unit has completely stopped responding. FarmWorks will not be damaged by a cold reset and your data will not be lost.
3. If you cannot see the Windows button then do an emergency re-boot - press Orange FN, Blue FN and Enter keys and hold for about six seconds while the unit turns itself off and automatically restarts.



After a cold reset, tap the icon to open FarmWorks:

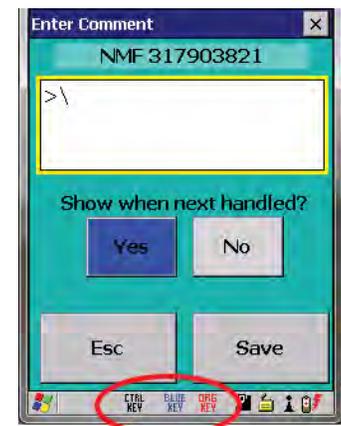
- Click **OK** on the warning screen about re-installing some utilities.
- Click **OK** that the utilities have been re-installed.
- Wait a few seconds - FarmWorks will open as usual.



Keyboard stops working

If the keyboard appears to have stopped working i.e. no letters or numbers show when you type in a field, then some function keys might have been pressed by accident.

- The orange FN, blue FN, CTRL or ALT keys could be on - check along the toolbar at the very bottom of the screen, e.g. “ALT KEY”. These keys have a cycle of three pushes .Press the key associated with the text until the text is no longer displayed on the bottom of the screen
- If that has no effect, do a **Warm Reset**.





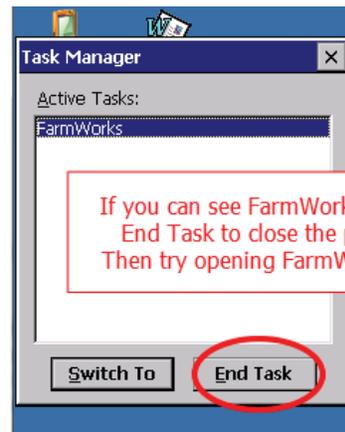
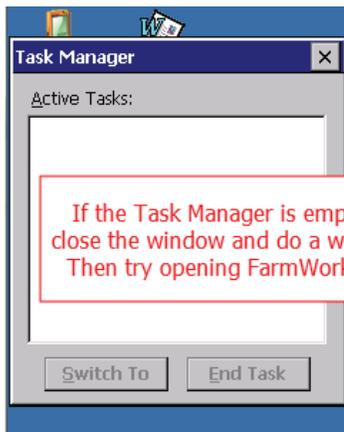
Trouble-shooting

Stock recorder program won't open - says it's already running.

1. Touch the Windows button in the bottom left corner of the screen.
2. Select **Shortcuts**
3. Select **Task Manager**

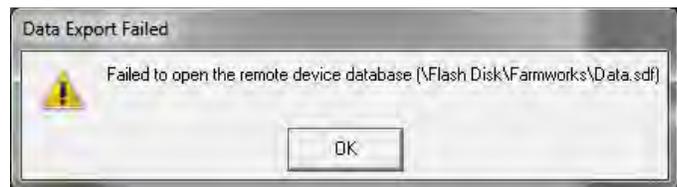


4. If the window is empty, close Task Manager and do a warm reset.
5. If the window is not empty, select End Task to close the program.
6. Try opening FarmWorks again.



Unable to transfer data between computer and stock recorder

- Make sure that the stock recorder is awake but FarmWorks is closed.
- Pop the stock recorder out of the cradle and push it back in firmly. Check that the cable between the cradle and the computer is plugged in securely at both ends.
- If the battery in the Psion might be very low, let it charge for at least 10 minutes before you try again.
- See page 8 for more information.



If nothing works, do a warm reset on the stock recorder, then try again.

If that doesn't work, close FarmWorks and re-start your computer, then try again. Sometimes Windows updates can temporarily disable the data transfer process so a re-start will install any pending updates.

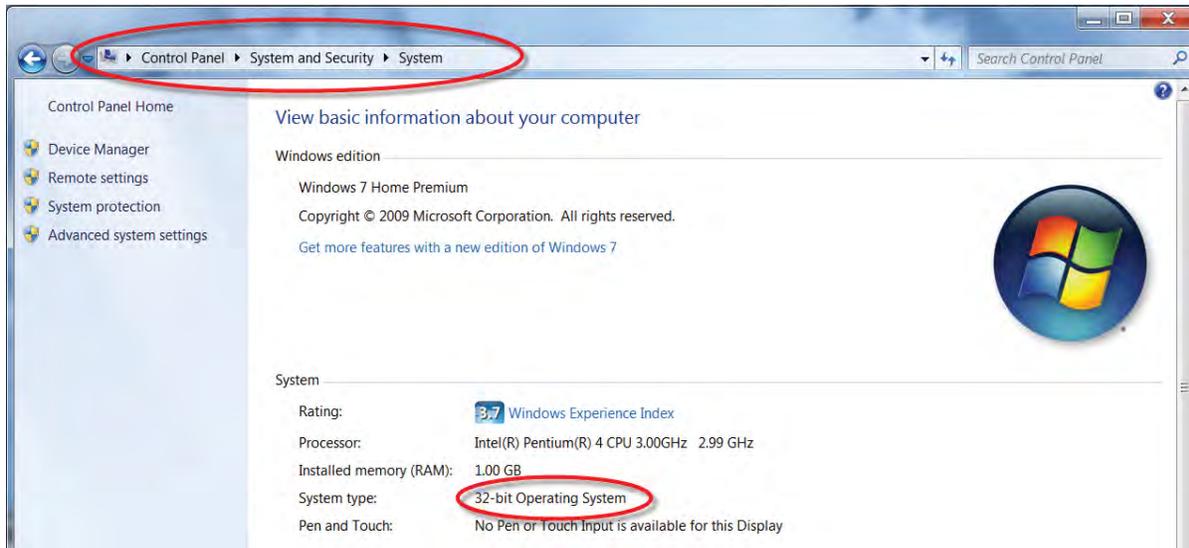


Appendix I - Manual Installation

The stock recorder uses Windows Mobile Device Center to communicate with your PC. This program may already be installed as part of the Windows operating system on your computer but may need additional “drivers” to allow it to connect. If Windows Mobile Device Center is not installed on your PC, the FarmWorks CD will prompt you to install it.

Do NOT connect the stock recorder USB cable until after installing the drivers!

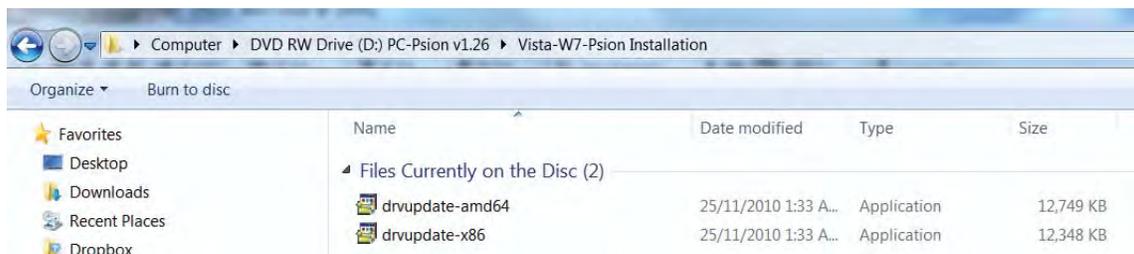
1. The first step is to check your computer’s operating system. Go to **Control Panel > System and Security > System**



2. Put the Stock Recorder CD into the disk drive of your PC. Find the files on the disk and open the folder called Vista-W7 Psion Installation.



3. There are two files in the folder - **drvupdate-x86.exe** for a 32-bit operating system, and **drvupdate-amd64.exe** for a 64-bit operating system.
4. Double-click on the driver you need for your operating system. Permit any installation warnings and click on **Run**. Ignore or close a message saying the driver has not been successfully installed.



Appendix I - Manual Installation



Connect the cradle to the computer, turn on the stock recorder and place it in the cradle. Your computer might automatically detect the stock recorder and ask you to set up a partnership. If not follow these steps:

- If a **“Found new hardware”** window opens, close it.
- Right-click the **Computer** icon on your desktop; left-click on **Manage**.

Left-click on **Manage**.

Left-click on **Device Manager**

Right-click on **Workabout Pro**

Select **Update Driver Software....**

- Left-click on **Device Manager**
- Under **Other Devices**, right-click on **Workabout Pro**.
- Select **Update Driver Software**.

- Select **“Browse my computer for driver software”**.
- Select **“Let me pick from a list of device drivers”**.

Update Driver Software - WORKABOUT PRO

How do you want to search for driver software?

- ➔ Search automatically for updated driver software
Windows will search your computer and the Internet for the software for your device, unless you've disabled this feature in your installation settings.
- ➔ **Browse my computer for driver software**
Locate and install driver software manually.

Update Driver Software - WORKABOUT PRO

Browse for driver software on your computer

Search for driver software in this location:
C:\Users\Tracy\Documents

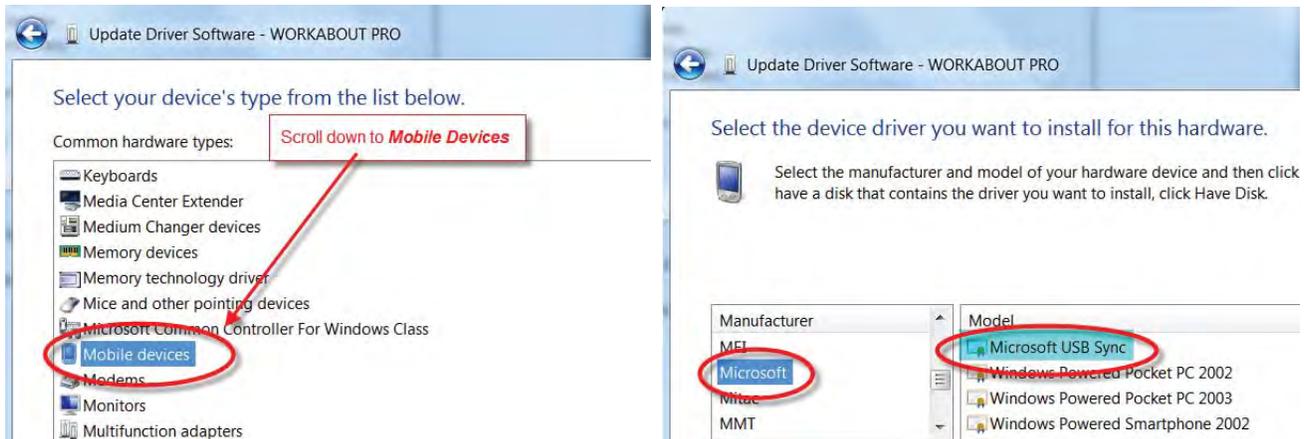
Include subfolders

➔ **Let me pick from a list of device drivers on my computer**
This list will show installed driver software compatible with the device, and all driver software in the same category as the device.

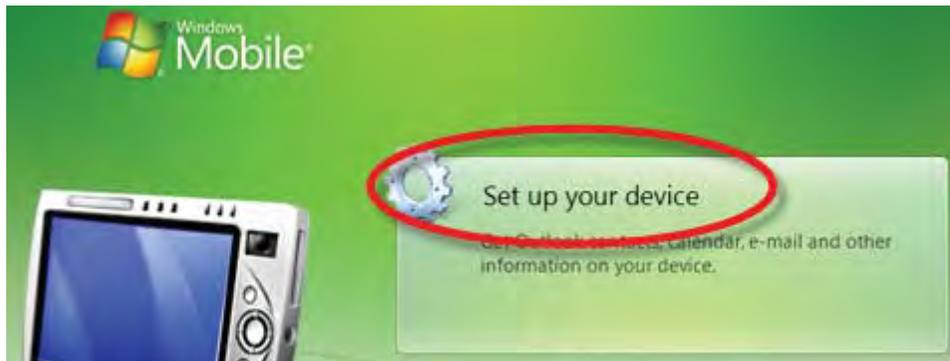


Appendix I - Manual Installation

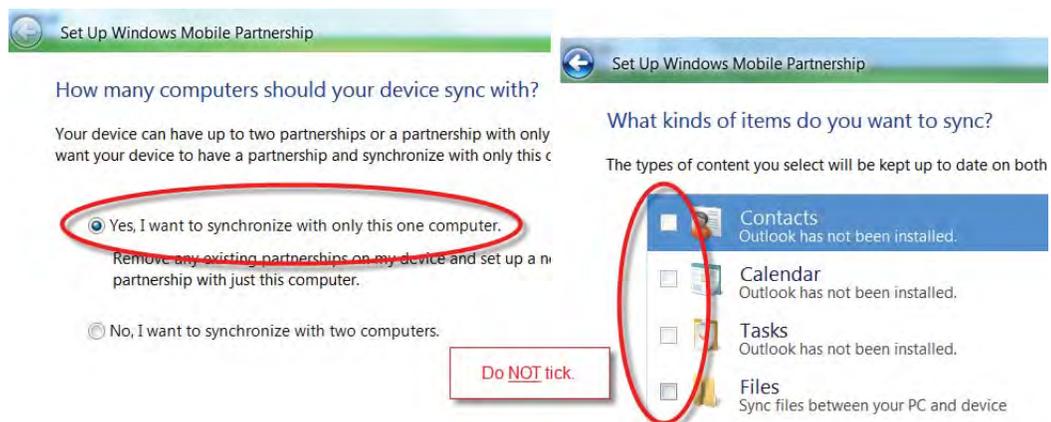
- Select **Mobile Devices** from **Common Hardware Types**
- Select **Microsoft** in the left-hand manufacturer's window.
- Select **Microsoft USB Sync** in the right-hand model window.
- Select **Next** and **Yes** to the warning.



You are then asked to set up the device.



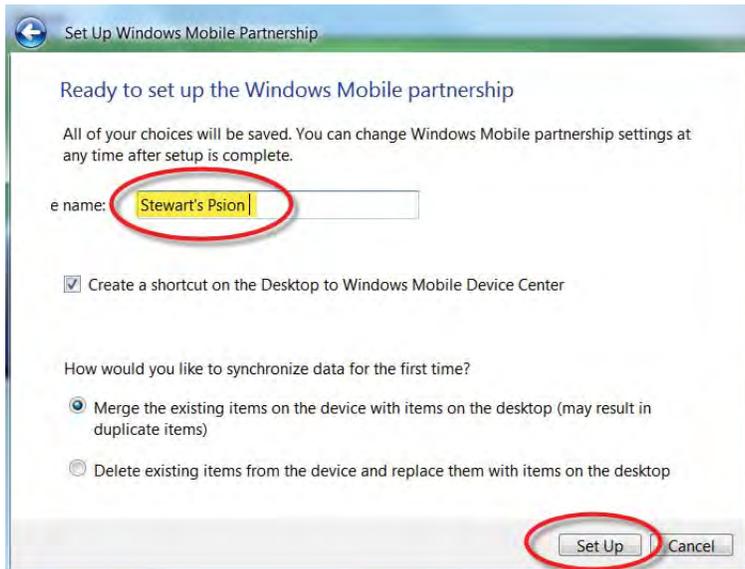
- Leave the default - **"Yes I want to synchronize with only this computer"** - click **Next**
- Options for **Contacts, Calendar, Tasks, Files** - leave all the boxed **unticked**



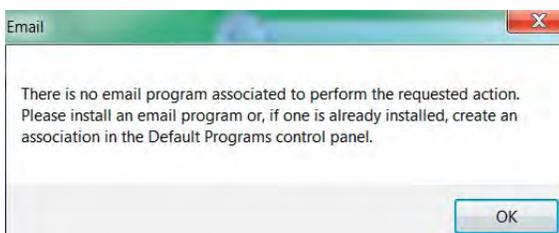


Appendix I - Manual Installation

- In **“Ready to set up Windows Mobile partnership”** give your stock recorder a simple name.
- Accept the default **“Merge the existing items on the device...”**
- Click **Set Up**
- Your stock recorder is now in partnership and connected to your computer. You are ready to transfer data back and forth from FarmWorks.



- There will be an icon for the Mobile Device Center on your desktop and on the bottom task bar of your computer screen. Before transferring data to the computer double-click on the desktop icon to check that your stock recorder is connected.



Watch for this warning screen!

It can appear behind the Mobile Device Center window and stop your stock recorder from connecting. If you see this screen close it and your stock recorder should connect normally.



Appendix II - Bluetooth Manager

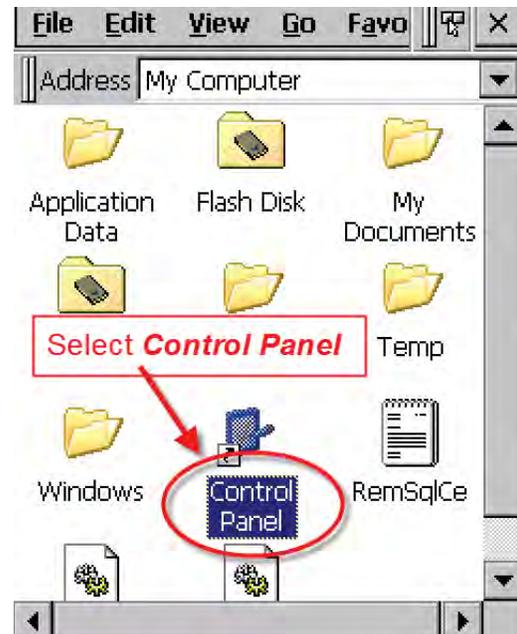
Bluetooth is wireless technology that lets electronic gadgets talk to each other via radio waves. A device “with Bluetooth” means it contains a small computer chip with a Bluetooth radio and some software that allows it to connect wirelessly to other devices.

The stock recorder can link to Bluetooth devices like weigh scales and tag readers. The **Bluetooth Manager** on the stock recorder finds the signal sent out by other devices and assigns each one a channel for communicating.

This is the process for initial linking of the Bluetooth components. Follow the steps for each piece of equipment and write down each corresponding BSP Channel.

To find an available Bluetooth channel:

1. Turn on the device you are trying to link to the stock recorder. Make sure it is close by.
2. On the stock recorder desktop find the computer icon. It may be called **My Device** or **My Computer**. Double click the icon to open it.
3. Open **Control Panel**.



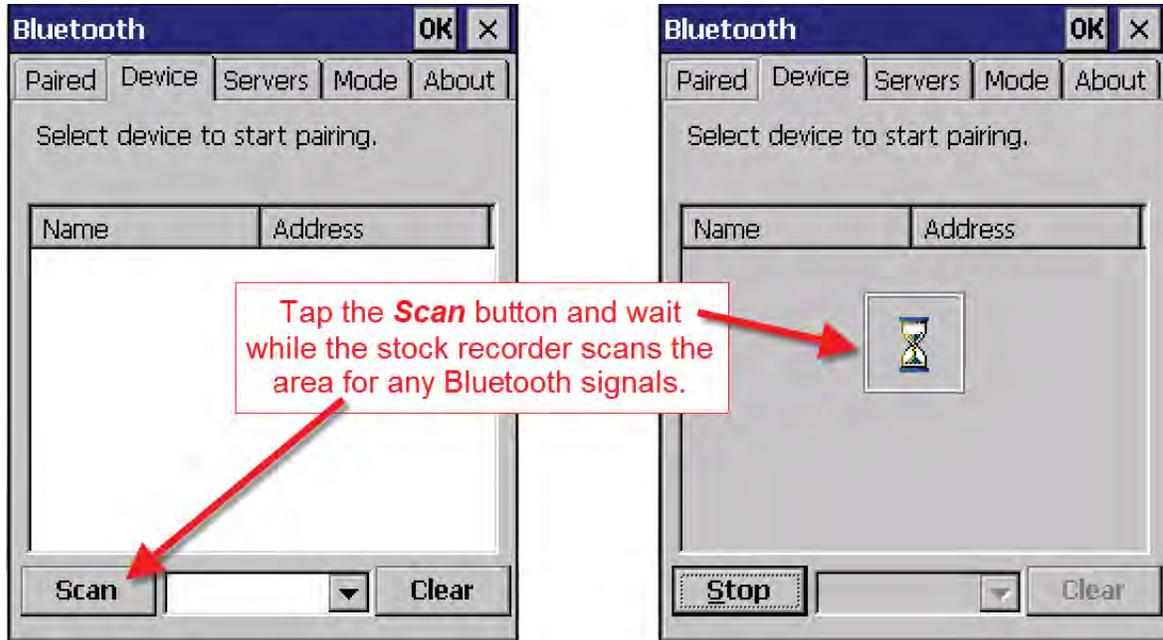
4. Find the Bluetooth symbol. It may be an icon or it may be in a list of folders. Double-tap to open **Bluetooth Device Properties**.



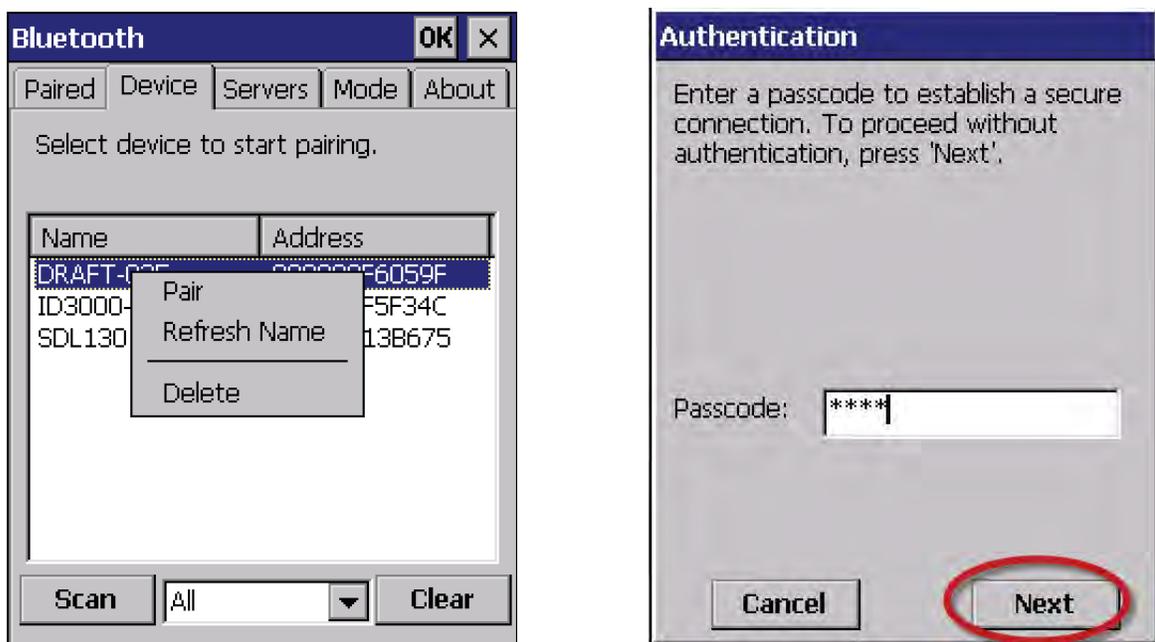
Appendix II - Bluetooth Manager



- On the devices tab press **Scan**. Now the stock recorder tries to find all the Bluetooth devices in the area. This may take a few minutes - be patient!



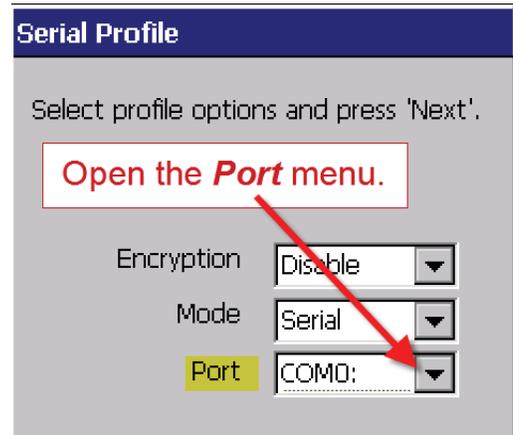
- When scanning is complete the screen will show all the Bluetooth devices in the area, including mobile phones.
- Highlight the device you want and tap **Pair**. The Authentication screen opens. All Shearwell products use 1111 as the default PIN. Some manufacturers don't require a PIN at all so leave it blank. Type in the PIN if necessary and tap **Next**.



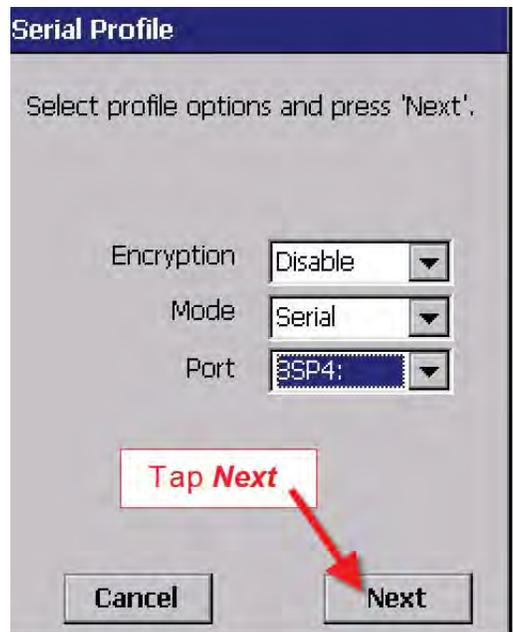
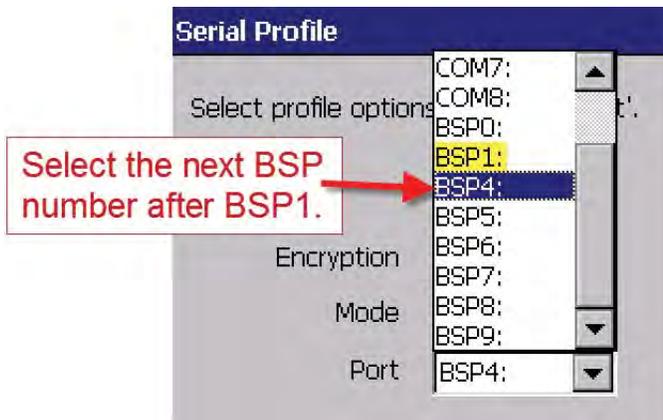


Appendix II - Bluetooth Manager

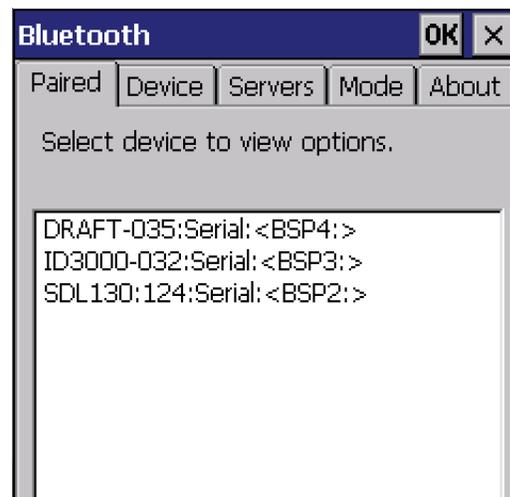
- The **Services** screen will open. Tap in the **Serial Port** tick box.
- The **Serial Profile** screen will open.
Leave Encryption disabled. Leave Mode as serial.



- Open the **Port** menu. On the list find the next available BSP after BSP 1.



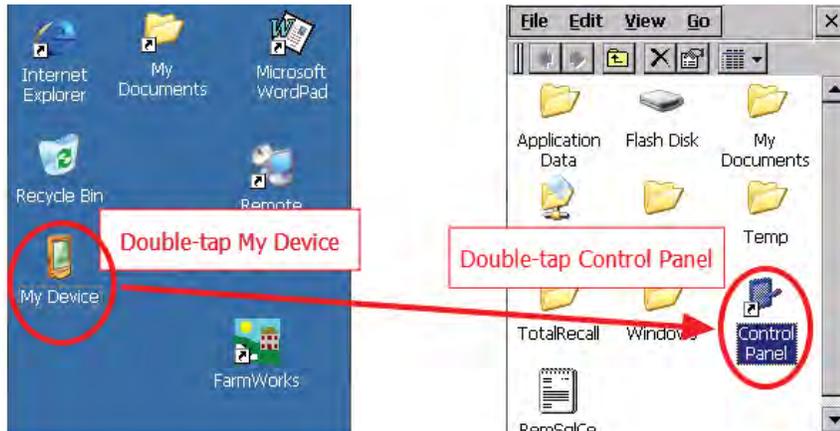
- The Serial Profile screen opens again. Tap **Next**. On the Services screen tap **Done**. Repeat this process for all the Bluetooth devices.



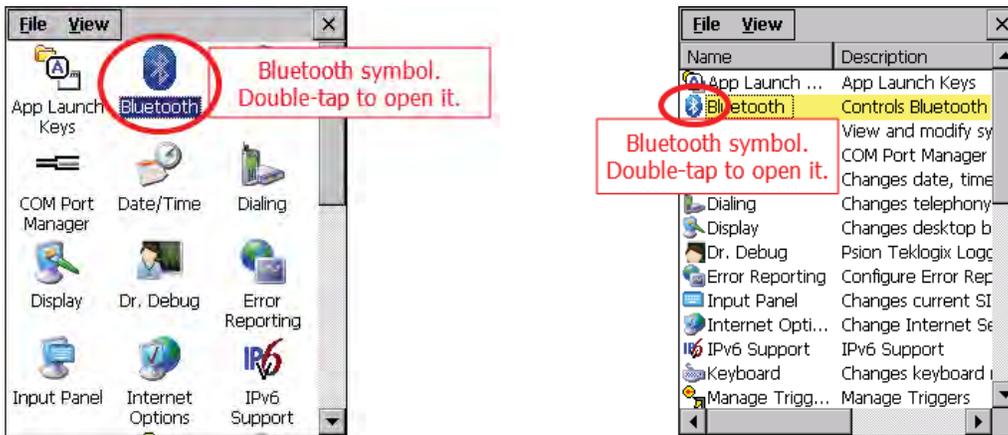
Appendix III - Link to SDL400 Stick Reader



1. Turn on the stick reader you are trying to link to the stock recorder. Make sure it is close by.
2. On the stock recorder desktop find the computer icon. It may be called **My Device** or **My Computer**. Double tap the icon to open it.
3. A shortcut to the Bluetooth Manager is to tap the BT icon on the bottom taskbar.
4. Double-tap **Control Panel** to open it.



5. Find the Bluetooth symbol. It may be an icon or it may be in a list of folders. Double-tap to open **Bluetooth Device Properties**.



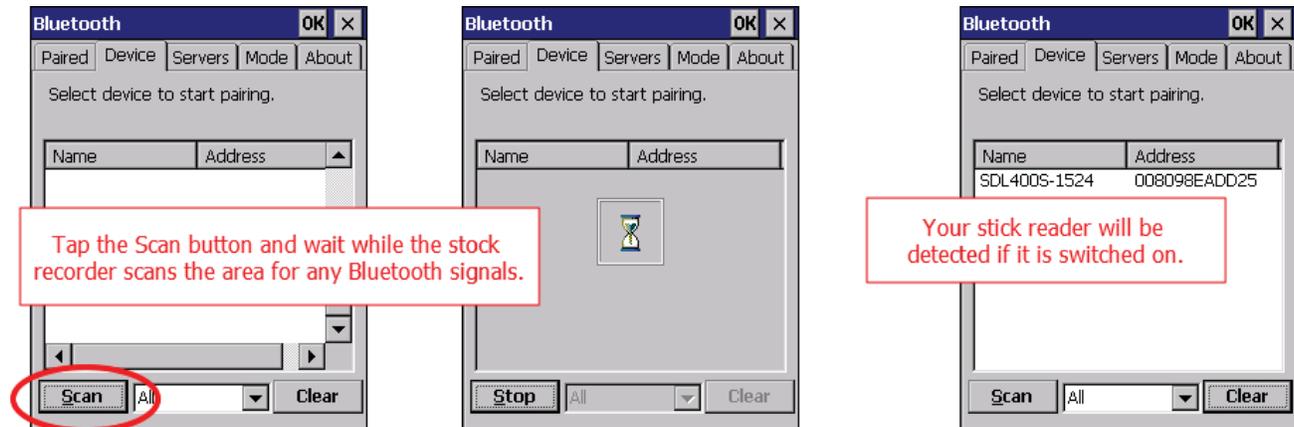
Note: You can also open the Bluetooth Manager by clicking on the little icon on the bottom tool bar.



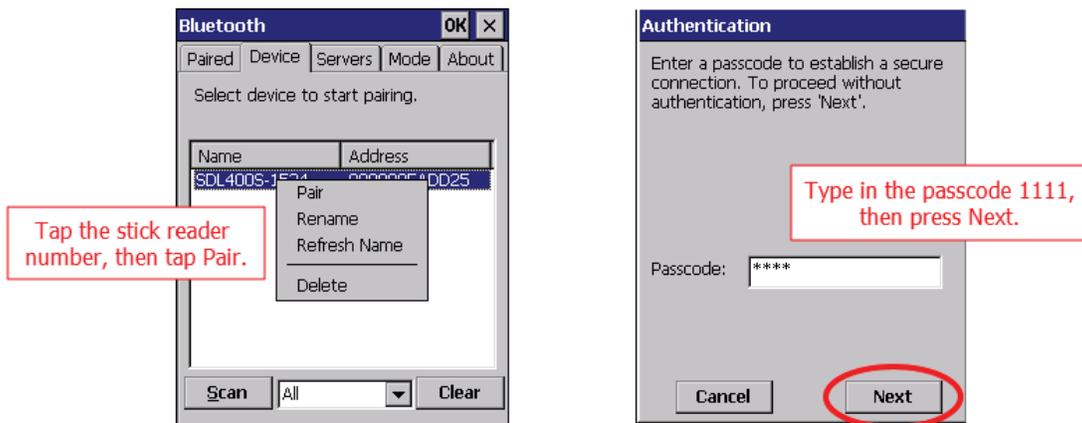


Appendix III - Link to SDL400 Stick Reader

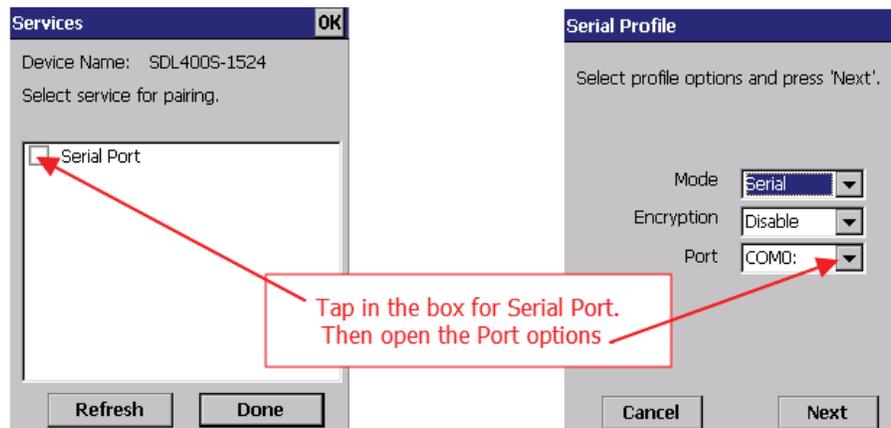
- On the devices tab press **Scan**. Now the stock recorder tries to find all the Bluetooth devices in the area. This may take a few minutes - be patient!



- When scanning is complete the screen will show all the Bluetooth devices in the area, including mobile phones.
- Highlight **SDL400** and tap **Pair**.
- The Authentication screen opens. All Shearwell products use **1111** as the default PIN. Type in the PIN and tap **Next**.



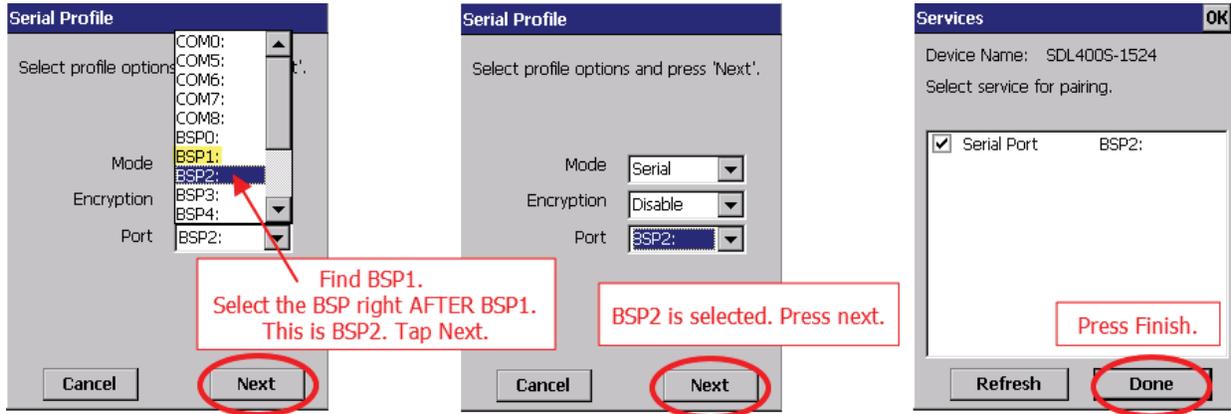
- The **Services** screen will open. Tap in the **Serial Port** tick box.
- The **Serial Profile** screen will open. Leave **Encryption** disabled. Leave **Mode** as serial.



Appendix III - Link to SDL400 Stick Reader



12. Open the **Port** menu. On the list find the next available BSP after BSP 1. It might be BSP2, or not. If you have connected to weighers and drafting crates it might be a different number. Make a note of the BSP number.
13. The Serial Profile screen opens again. Tap **Next**.
14. On the Services screen tap **Done**. Close all the Bluetooth Manager screens.

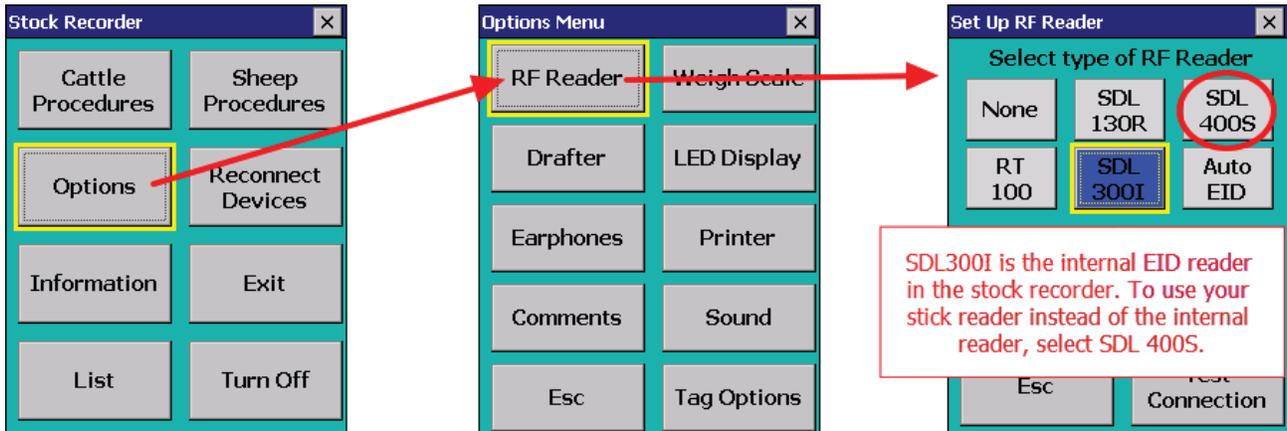




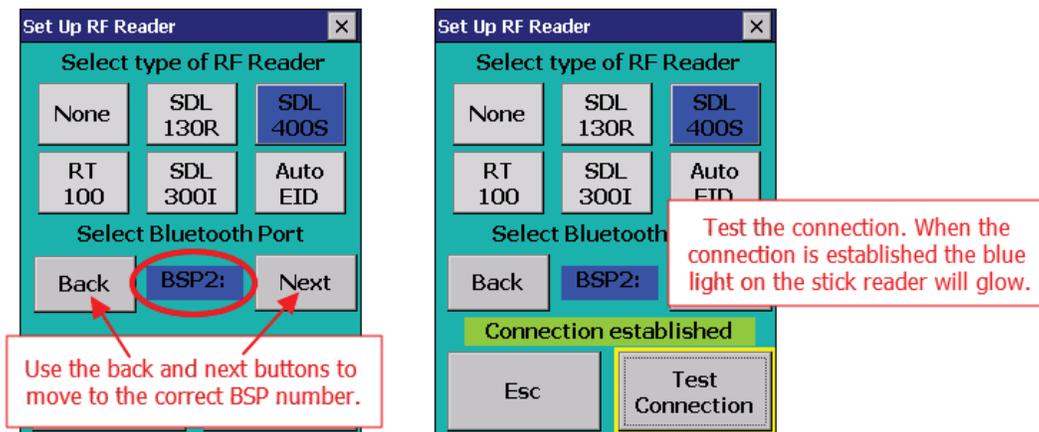
Appendix III - Link to SDL400 Stick Reader

Set up FarmWorks on the stock recorder to receive tag numbers from the SDL400

1. Open FarmWorks on the stock recorder. Select **Options**, then **RF Reader**.
2. The selected reader will be SDL300I. That is the internal EID reader in the stock recorder.
3. Select **SDL 400S** to change the EID reader to be the SDL400 stick reader.



4. Select the correct Bluetooth port number - the BSP number from the Bluetooth Manager. Click backwards and forwards using the **Back** and **Next** buttons until you find the right BSP number.
5. Click **Test Connection**. The message **Connection Established** means the stock recorder and stick reader have been successfully connected. The blue light on the stick reader will glow.



To disconnect the stick reader and go back to using the internal reader inside the stock recorder, change the RF Reader option back to **SDL300I**, and then press **Test Connection**.

Contact Us



For technical support telephone: 780 - 674 - 9564

You can email technical support at: support@eronafarms.ca

Or visit our website at: www.eronafarms.ca

Context-sensitive help is available within the FarmWorks program at any time by pressing the F1 key on the screen you need help on, or click help / manuals to open either the FarmWorks manual or the Stock recorder manual.