

FREEDOM-Pad™ Installation and Operation

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|---|---------|
| Quick Start Steps for installing FREEDOM-Pad | Page 2 |
| Desktop Install Overview | Page 2 |
| Mobile Device Installation Overview | Page 2 |
| Activating the Battery | Page 2 |
| Resetting and Reformatting Instructions | Page 3 |
| Setup Procedures | Page 3 |
| Desktop Install | |
| Microsoft ActiveSync | Page 3 |
| FREEDOM-Sync | Page 7 |
| Mobile Device Install | |
| FREEDOM-Pad | Page 9 |
| Map Application Software (ArcPad) | Page 10 |
| License Install | Page 11 |
| FREEDOM-Pad Keycode | Page 13 |
| FREEDOM-Sync Startup | Page 14 |
| Backup Mobile Device | Page 19 |
| Restore Mobile Device | |
| Standard Restore | Page 21 |
| Alternate Restore | Page 22 |
| FREEDOM-Pad Configuration | Page 26 |
| Starting and Setting up ArcPad | Page 26 |
| Zooming Options | Page 32 |
| Accessing a Station | Page 33 |
| Loading database, Program List, Course data | Page 34 |
| Using the Hole/Area/Tree screen | Page 35 |
| Station Commands | Page 35 |
| Changing Station Properties | Page 36 |
| Activating Programs/Schedules | Page 37 |
| Cancel All Stations | Page 38 |
| Viewing Log, Using Undo | Page 38 |
| Do Command | |
| System Mode Auto/Off | Page 39 |
| Access Window Open/Close | Page 39 |
| Return to Map | Page 40 |
| Updating the Central-Control System | Page 40 |

Important!

The FREEDOM-Pad will not be operational without a license and a FREEDOM-Pad Module. The License and module can be obtained from your local Rain Bird Distributor. For details please read page 11 under license installation.

Quick Start Steps for installing FREEDOM-Pad:

OVERVIEW - DO NOT START INSTALLATION UNTIL PAGE 3

1. DESKTOP INSTALL:

a. System Synchronizer –

(Installs Microsoft® ActiveSync 3.6)

This software is needed to allow the exchange of data between the PC and the mobile device.

b. Data Synchronizer

(Installs FREEDOM-Sync)

The Rain Bird software that facilitates the exchange of data between the Central-Control software and the FREEDOM-Pad



2. MOBILE DEVICE INSTALL –

Installs the FREEDOM-Pad and ArcPad software onto the hand-held device (i.e. Compaq® iPAQ™)

The next few pages will take you through each of these steps in more detail.



! Important!

The FREEDOM-Pad will not be operational without a license and a FREEDOM-Pad Module. The License and module can be obtained from your local Rain Bird Distributor. For details please read page 16 under license installation.

3. Activating the Battery

When the FREEDOM-Pad is removed from the box, the battery is disabled. To turn on the battery simply plug in a powered AC adapter to the iPAQ.

4. Resetting the FREEDOM-Pad

Use the stylus to press the button at the bottom right of the FREEDOM-Pad. This will close all active programs and is helpful if the FREEDOM-Pad or a program freezes. Only unsaved data will be lost; programs and saved data will not be lost.



5. Reformatting the FREEDOM-Pad

(Warning: this procedure removes ALL information from the FREEDOM-Pad. It should be used only when absolutely necessary and when resetting the device does not work).

To clear all the memory from the device and to restart the FREEDOM-Pad as if it were new is like activating the battery for the first time. Hold down the two farthest buttons on the iPAQ and press the reset button with a stylus for five seconds. Please remember that all of the information on the FREEDOM-Pad will be erased.



Setup Procedures

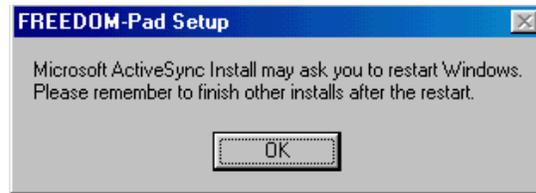
1. Desktop Install

a. System Synchronizer (Microsoft® Active Sync)

- 1) At the Rain Bird FREEDOM-Pad Setup window, click on "System Synchronizer."



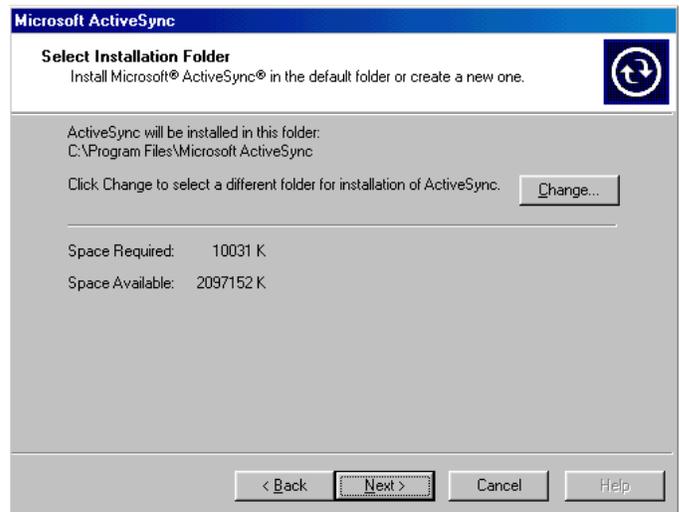
- 2) Click “OK” If this screen is seen.
Note: If this is the first time that Microsoft® Active Sync is installed on the computer Active Sync may ask to restart the computer.



- 3) Click “Next” at the **Setup Microsoft ActiveSync** window.



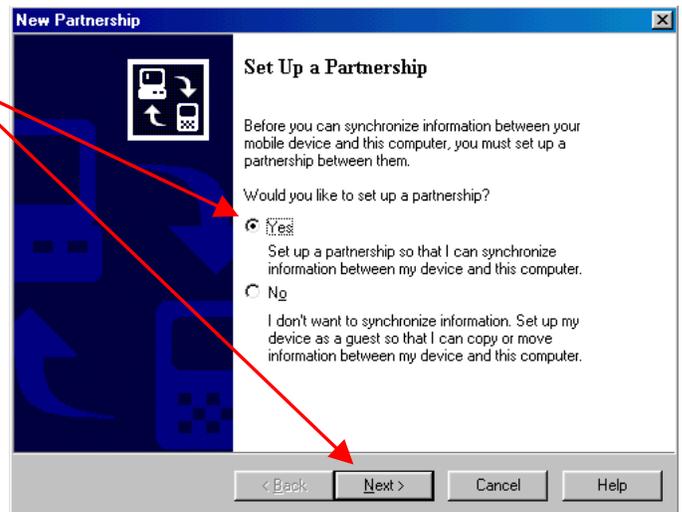
- 4) Click “Next” at **Select Installation Folder**.



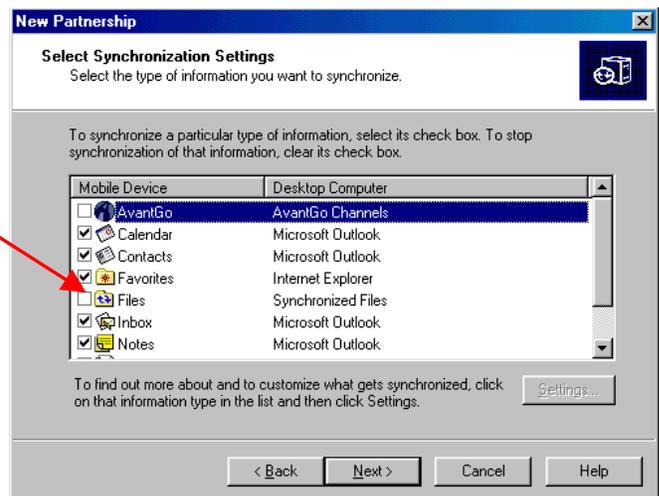
- a) At the **Get Connected** window, **connect the FREEDOM-Pad to the computer**
- b) Connect the power adapter of the mobile device from a power outlet to the cradle.
- c) Insert the FREEDOM-Pad in the cradle.
- d) Finally, connect the cradle to the USB port of the computer.
- e) Active Sync and Windows will automatically recognize the FREEDOM-Pad device.



- 5) Select **“Yes”** and click **“Next”** to set up a partnership between the FREEDOM-Pad and the computer.



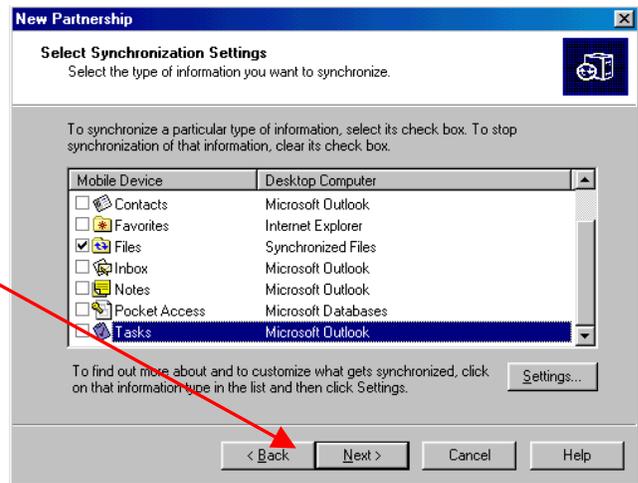
- 6) Select **“Files”** at the **Select Synchronization Settings** window.



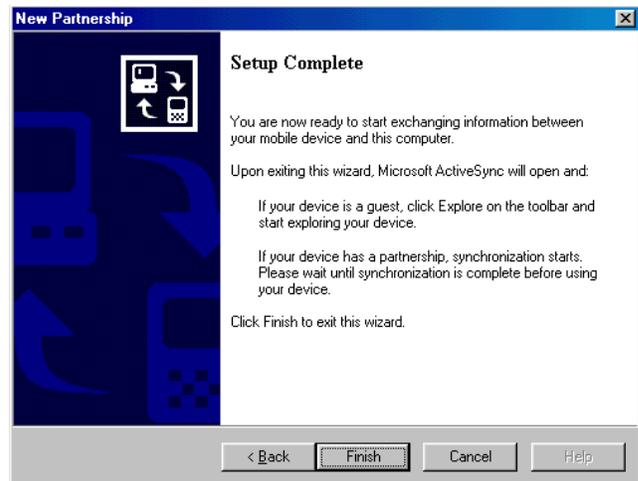
- 7) Click **“OK”** at the **File Synchronization** window.



- 8) Uncheck all boxes making sure the only box selected is “Files” and click **“Next.”**



- 9) Click **“Finish”** to complete the Active Sync setup.



b. FREEDOM-Sync Setup

- 1) First make sure that ActiveSync indicates that it is “**Connected**” and “**Synchronized.**” Then, at the Rain Bird FREEDOM-Pad Setup window, click on “**Data Synchronizer.**”

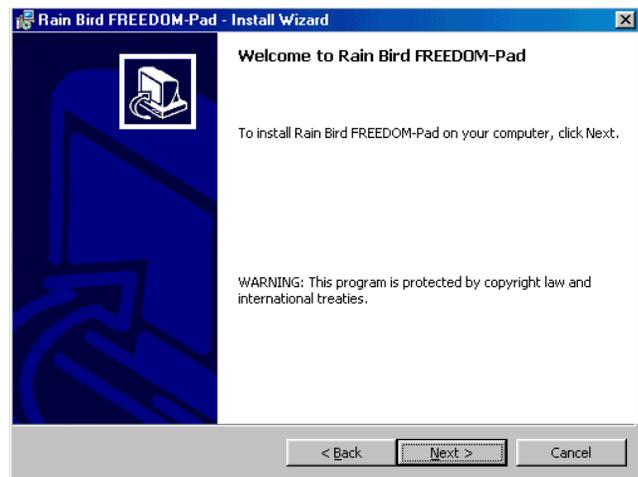
Note: If this is the first time that FREEDOM-Sync is installed on the computer, FREEDOM-Sync may ask to “Restart.” If this occurs, click “Restart” and resume the installation after the computer restarts.



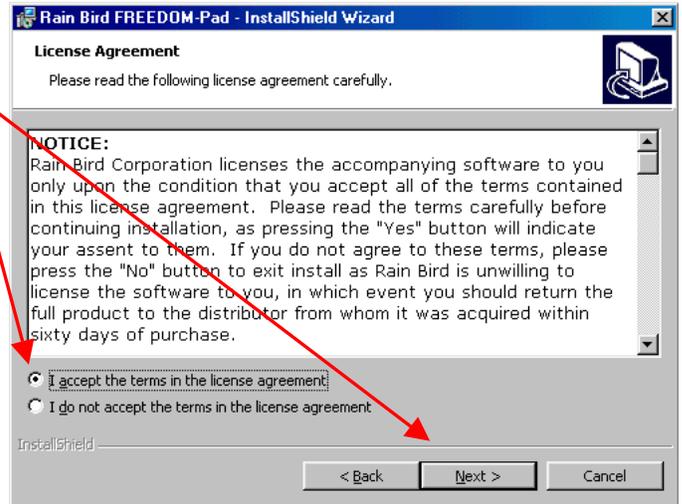
- 2) Click “**Next**” at the Rain Bird FREEDOM-Pad Installation Wizard window.



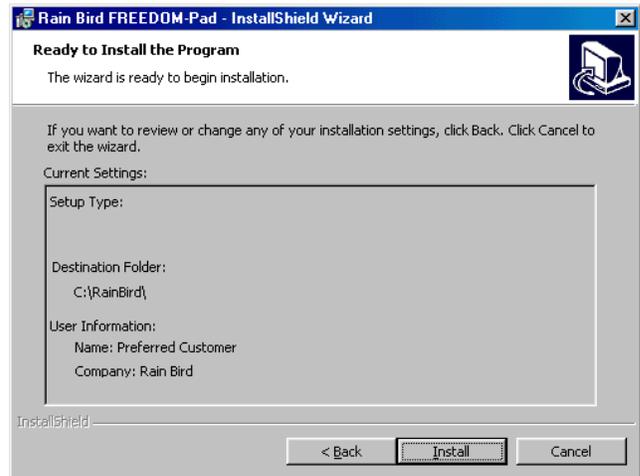
- 3) Click “**Next**” at Welcome to Rain Bird FREEDOM-Pad.



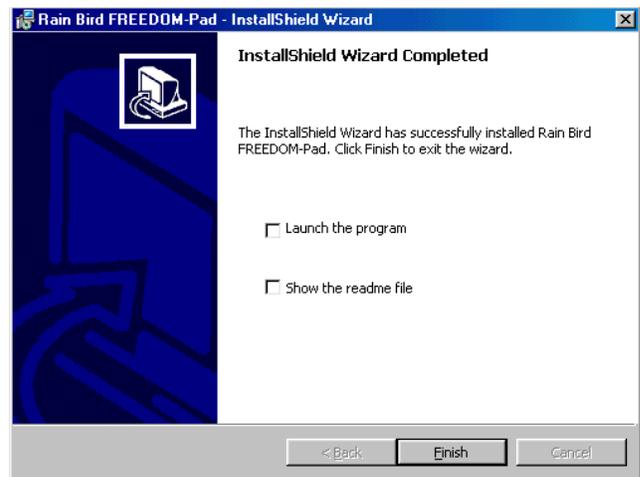
- 4) Select “**I accept the terms in the license agreement**” and then click “**Next.**”



- 5) Click “**Install**” to begin the installation of FREEDOM-Sync.



- 6) Click “**Finish**” when the InstallShield Wizard is completed.



- 7) The Rain Bird **FREEDOM-Pad Installation Wizard** window will close and return to the Rain Bird FREEDOM-Pad Setup window.

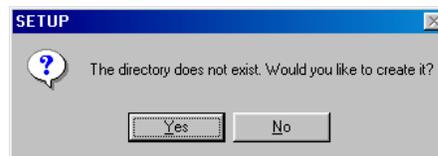
2. MOBILE DEVICE INSTALL

a. FREEDOM-Pad Install

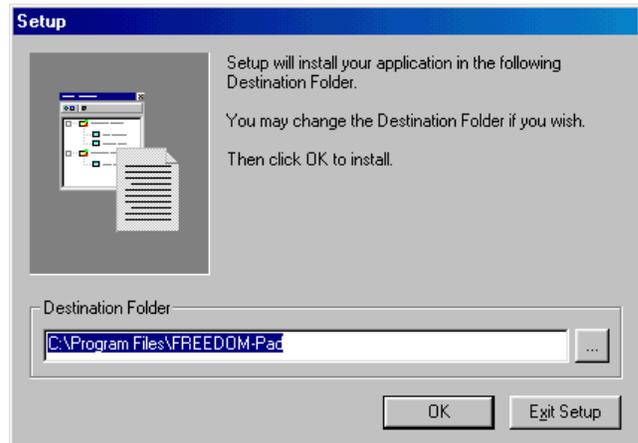
- 1) With the iPAQ on the cradle, click on “FREEDOM-Pad” at the **Rain Bird FREEDOM-Pad Setup** window.



- 2) Click “**Yes**” if the directory does not exist, in order to create it.



- 3) Click “**OK**” at the **Setup** window.



- 4) Click “**Yes**” to install using the default directory.



- 5) At the “**Application Downloading Complete**” window, check the screen of your FREEDOM-Pad and use the stylus to click on “**Yes to All**” at the “**Confirm File Replace**” window.



- 6) Click “**OK**” at the **Application Downloading Complete** window when the FREEDOM-pad is finished.

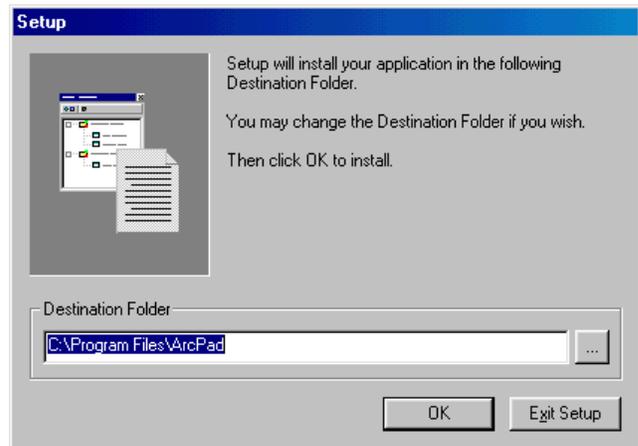
b. Map Application on FREEDOM-Pad Install (ArcPad)

- 1) Click “**Map Application**” at the **Rain Bird FREEDOM-Pad Setup** window.

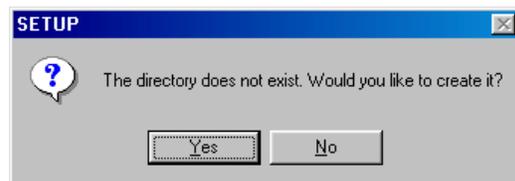
Note: This option is only for users of Stratus II, Nimbus II, or Cirrus that want to have map navigation on their FREEDOM-Pad



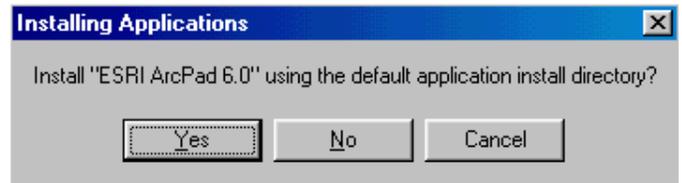
- 2) Click “**OK**” at the **Setup** window.



- 3) Click “**Yes**” if the directory does not exist, in order to create it.



- 4) Click “Yes” to install using the default directory.



- 5) At the “Application Downloading Complete” window, check the screen of your FREEDOM-Pad to see if any additional steps are needed. If there are none, click “OK” to complete setup.



- 6) The “Application Downloading Complete” window will close and return to the Rain Bird FREEDOM-Pad Setup window.

- 7) At the Rain Bird FREEDOM-Pad Setup window, click “Exit.”



- 8) Click “No” when asked to run FREEDOM-Sync.

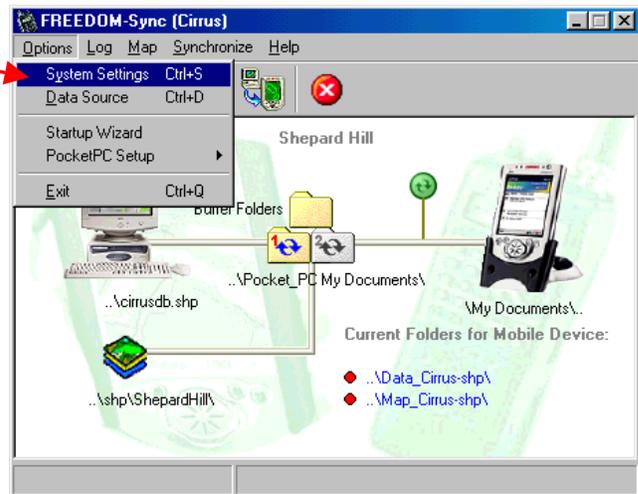


3. License Install

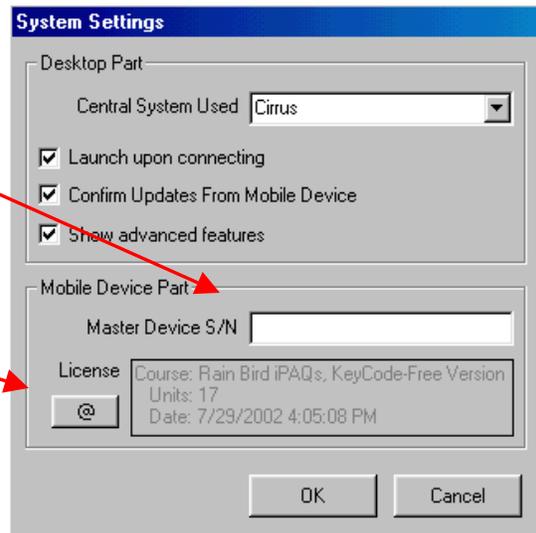
- a. If the FREEDOM-Sync application is not open, double-click the **Rain Bird FREEDOM-Sync** icon on the Windows desktop.



- b. Click “Options,” then go to “System Settings.”

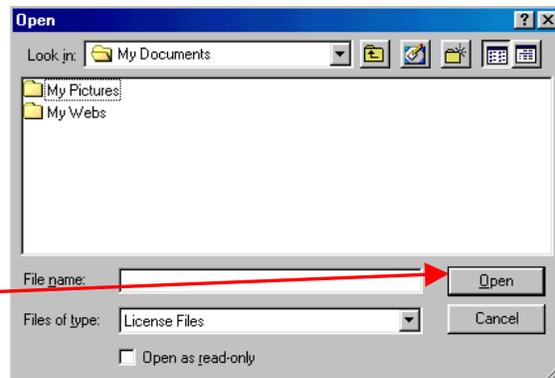


- c. In the “Master Device S/N” field, enter the serial number located on the back of the FREEDOM-Pad.



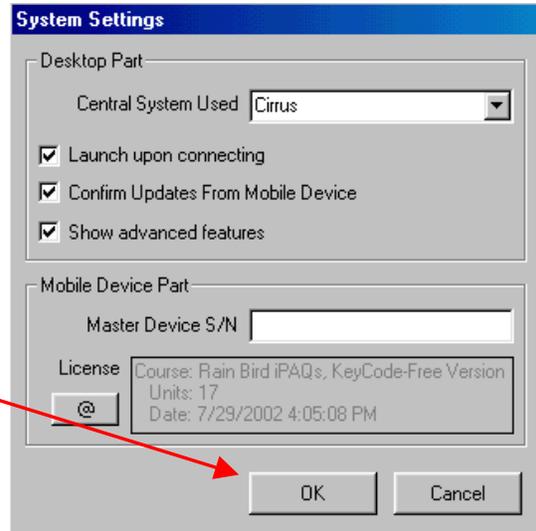
- d. Click the “@” button.

- e. Locate the license file provided by the Rain Bird distributor. (*Rain Bird will provide the license file when the FREEDOM-Pad module has been purchased.*)



- f. Highlight the license file and click “Open.”

g. Click "OK."

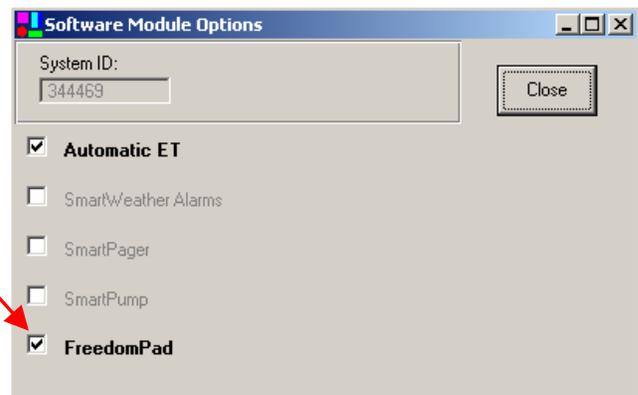


4. Installing FREEDOM-Pad Keycode

a. In your Central Control Program, click on **Software Module Options**.
(Located on tab 2 in the Front Office)



b. Contact a Rain Bird GTS Engineer or your distributor to obtain your FREEDOM-Pad Keycode.



Important!

A FREEDOM-Pad keycode and License File are needed for full use of the Rain Bird FREEDOM-Pad.

5. FREEDOM-Sync Startup.

- a. Double-click the **Rain Bird FREEDOM-Sync** icon on the Windows desktop.



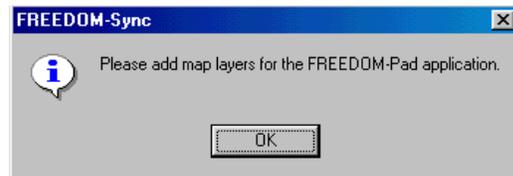
- b. Click **“OK”** to launch the startup wizard.



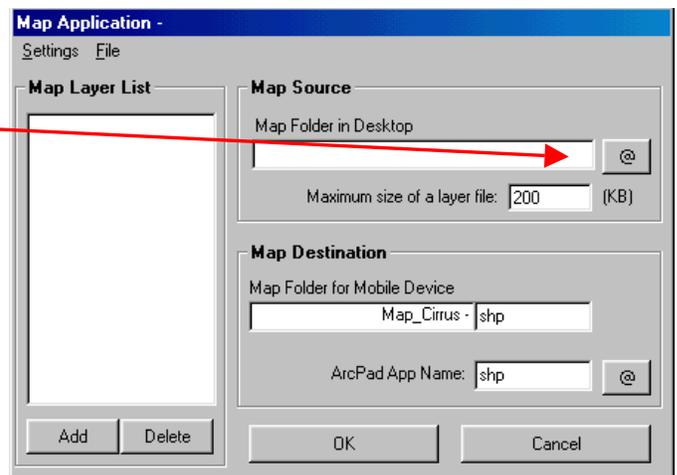
- c. Read the instructions and click **“OK.”**



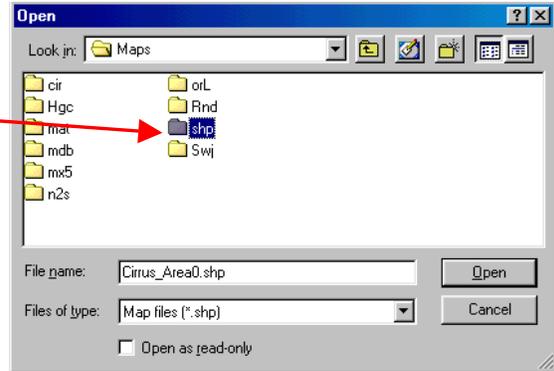
- d. Click **“OK”** to add map layers.



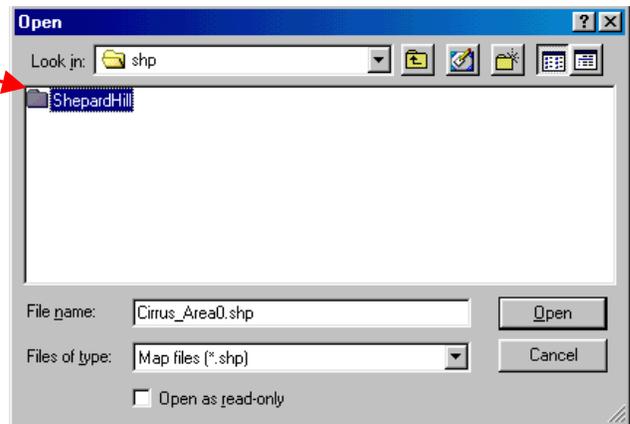
- e. At the **Map Application** window, click the **“@”** button if the map database is not in the window.



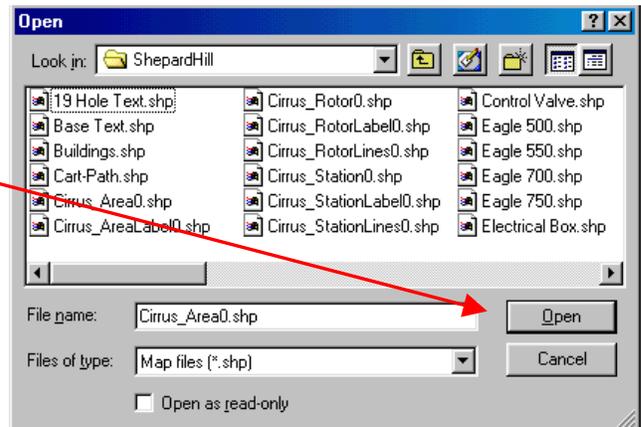
- f. Double-click the map folder with the three-letter extension matching the desired database.



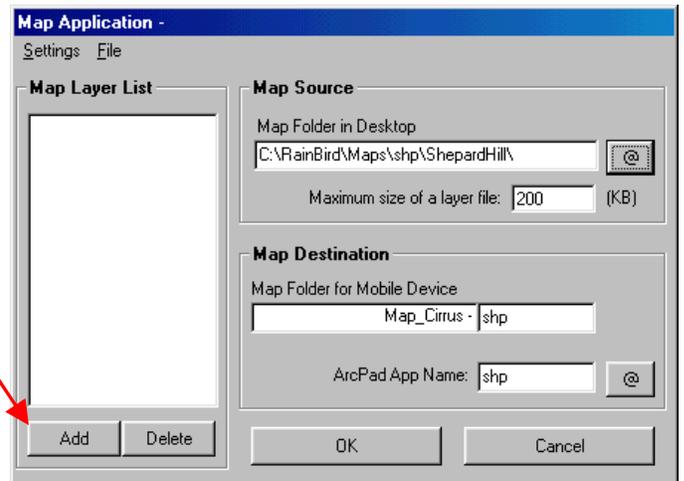
- g. Double click on the folder named after the central control map.



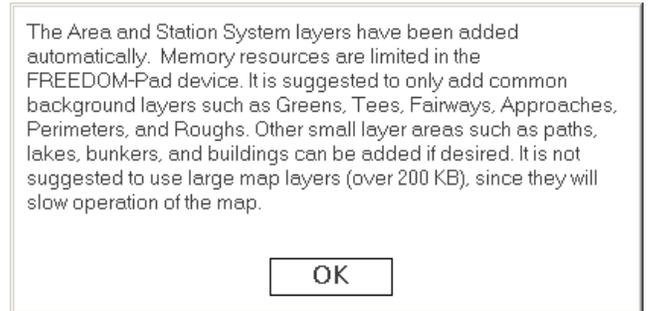
- h. All of the shape files that create the central map will be displayed. Simply click "Open."



- i. Click **“Add”** to select layers to be shown on the FREEDOM-Pad.

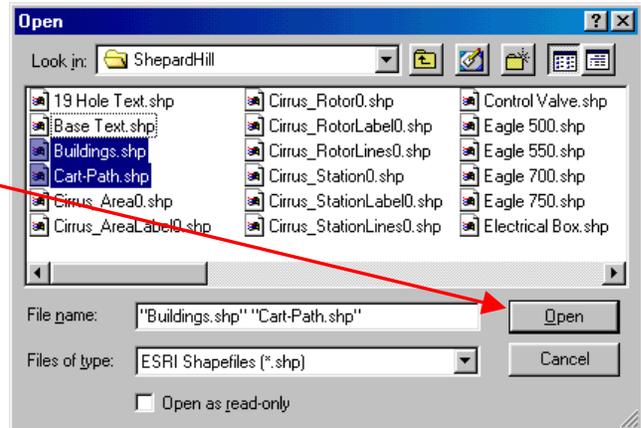


- j. Click **“OK.”**

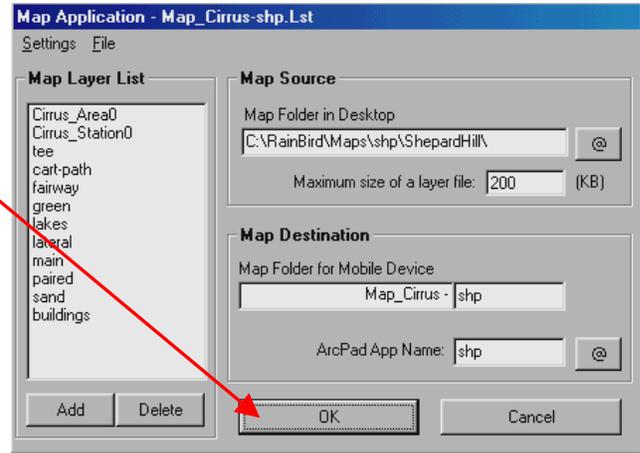


- k. While holding down the **“Ctrl”** key, click all the layers that you’d like to export to the iPAQ (i.e. bunkers.shp, or greens.shp) then click **“Open”** to add the layers.

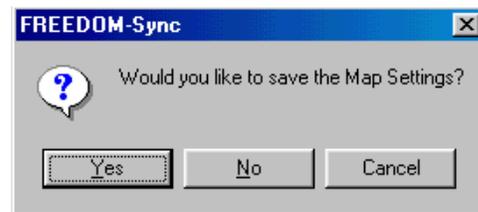
It is recommended that only a few layers be used. Typically, common course features such as greens, tees, fairways, bunkers, etc. are used. The memory in the FREEDOM-Pad is limited. It is important to use only the layers necessary to provide a useful map and avoid layers over 200KB in size.



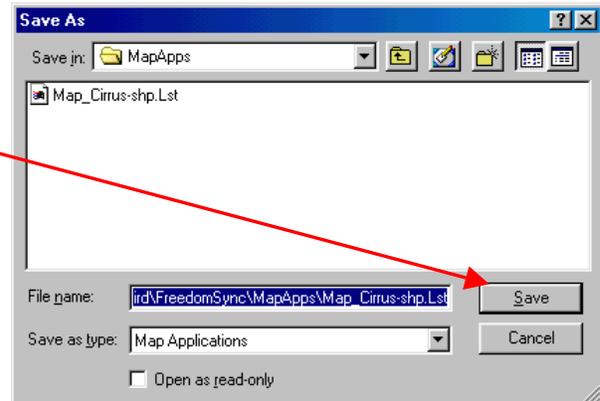
- l. Click **“OK”** when finished and save the map file as requested.



- m. Click **“Yes”** to save Map Settings.



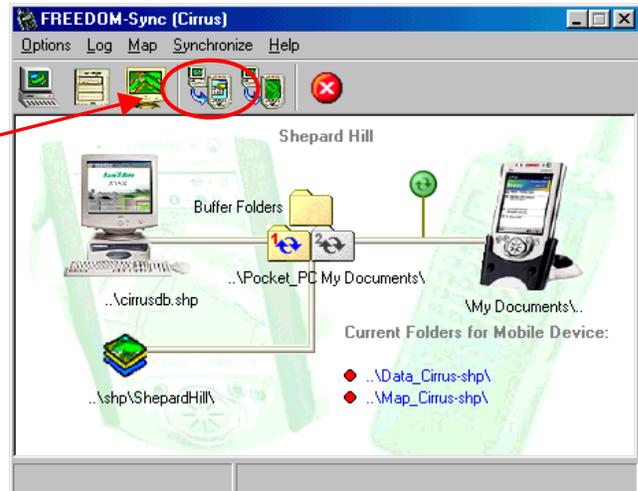
- n. Click **“Save.”**



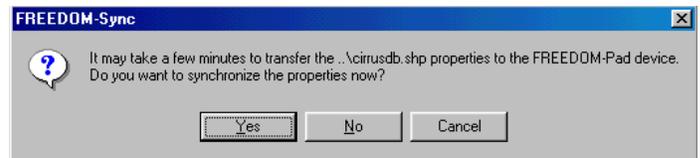
- o. Click **“OK.”**



- p. Next, it will be necessary to synchronize the course information. Click the **“Synchronize Properties to Mobile Device”** icon.



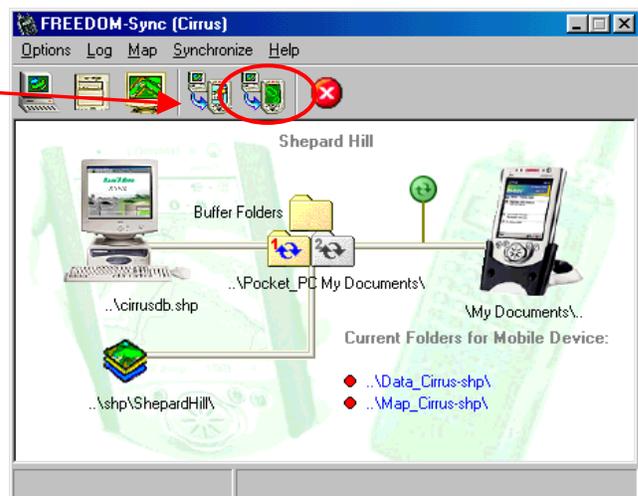
- q. Click **“Yes”** to transfer the Course properties from the central to the FREEDOM-Pad.



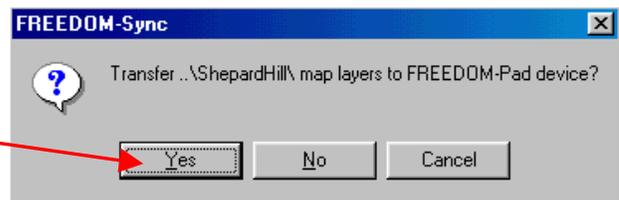
- r. Click **“OK.”**



- s. Click the **“Synchronize Map Layers to Mobile Device”** icon.



- t. Click **“Yes.”**

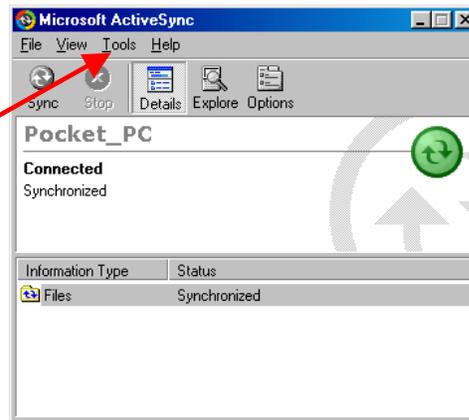


- u. Click "OK."

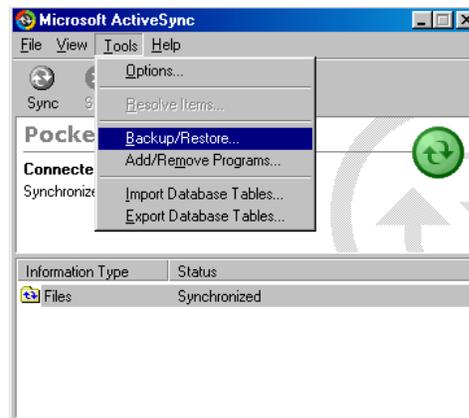


6. Backing Up the FREEDOM-Pad.

- a. Make sure the FREEDOM-Pad is in the sync-cradle.
- b. If Microsoft Active-Sync is not open, launch it by double-clicking on the **Microsoft Active-Sync icon** on the desktop.
- c. Click "Tools."

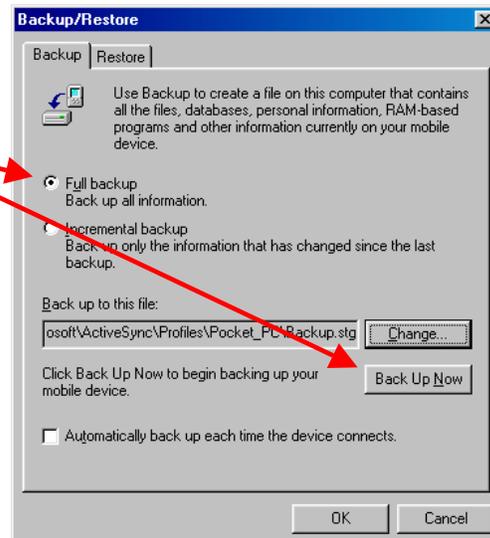


- d. Double-click "Backup/Restore."

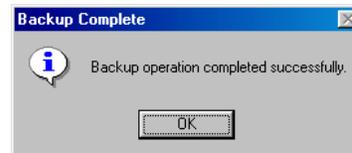


- e. When backing up data for the first time, select **“Full backup.”** Then click on **“Back Up Now.”**

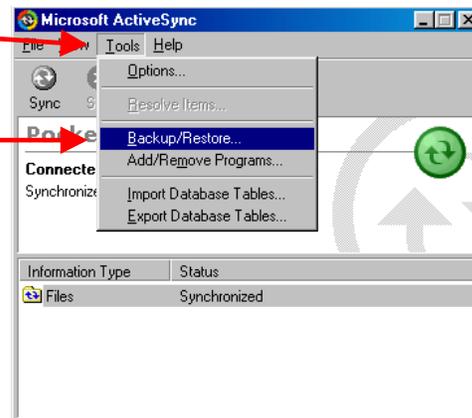
Active Sync will proceed to back up all the programs and files on the FREEDOM-Pad.



- f. Click **“OK”** when Backup is complete.

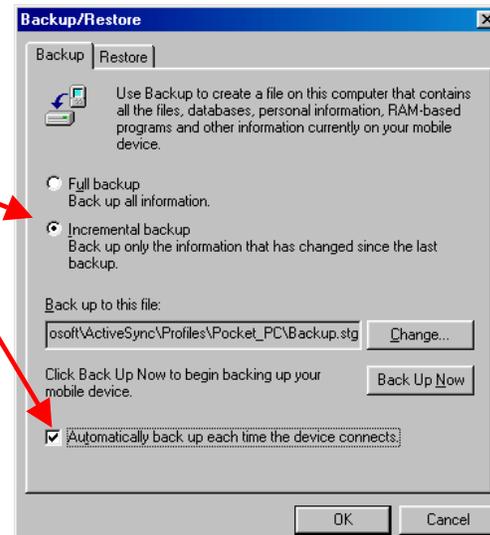


- g. Click **“Tools”** again.



- h. Double-click **“Backup/Restore.”**

- i. Select **“Incremental backup”** to only backup information that has changed. Then, select **“Automatically Backup”** each time the device connects.”

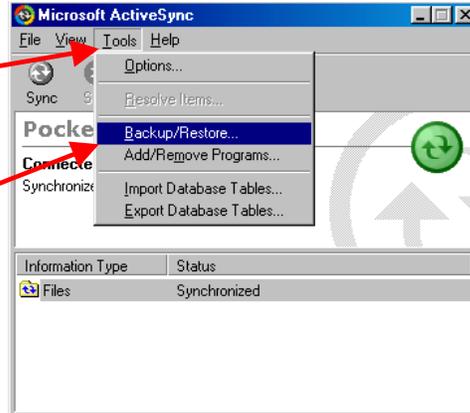


7. Standard Restore of the FREEDOM-Pad.

- a. If Microsoft Active-Sync is not open, launch it by double-clicking on the **Microsoft Active-Sync icon** on the desktop.



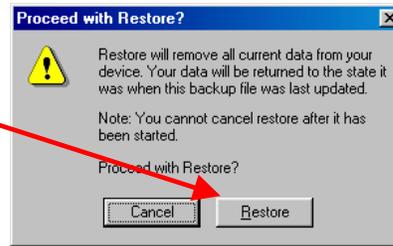
- b. Place the FREEDOM-Pad in the Sync-cradle.
- c. Click **"Tools."**
- d. Double-click **"Backup/Restore."**



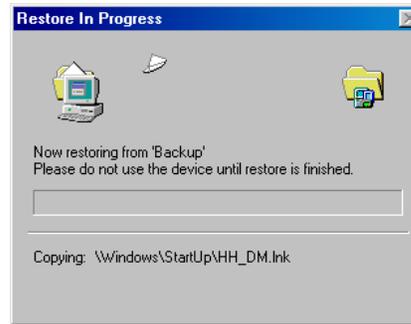
- e. Click the **Restore Tab.**
- f. Click **"Restore Now."**



- g. Click “Restore.”



Restore will proceed.



- h. Click “OK” when restore is complete.



- i. In order to complete the restore process, it is necessary to remove the FREEDOM-Pad from the sync-cradle and reset it by pressing the reset button with the stylus. The reset button is located on the bottom of the mobile device in the hole on the right (page 3, item 5).

8. If the Standard Restore asks to Setup a New Partnership.

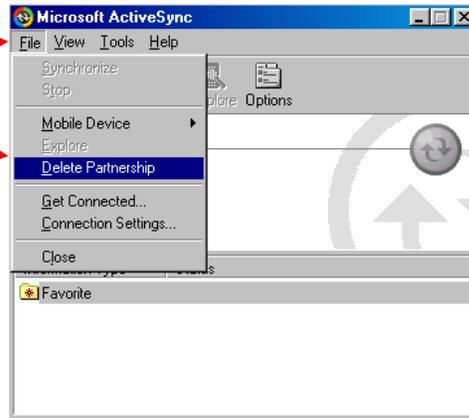
- a. Make sure the FREEDOM-Pad is not in the Sync-cradle.
- b. If Microsoft Active-Sync is not open, launch it by double-clicking on the **Microsoft Active-Sync icon** on the desktop.



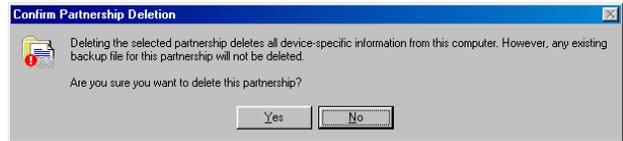
c. Click **"File."**



d. Click **"Delete Partnership."**



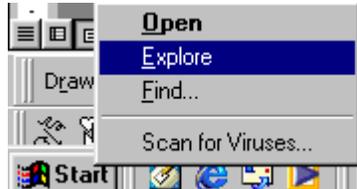
e. Click **"Yes"** to confirm partnership deletion. If you are asked to delete the sync folder, choose **"No."**



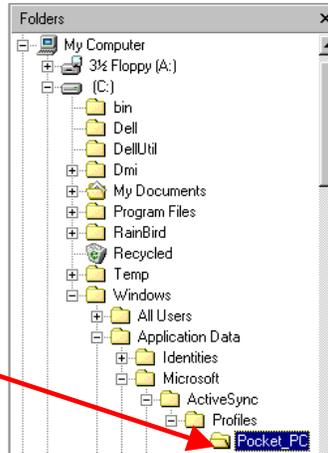
f. With the right mouse button, click the **Start Button.**



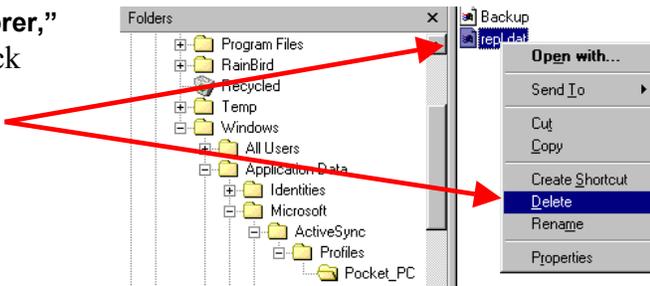
g. Click **"Explore."**



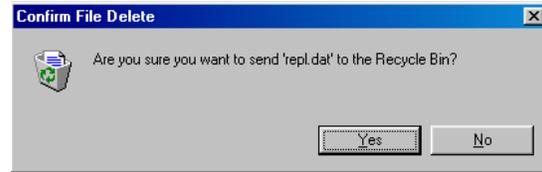
h. On the left side under "Folders," click on the plus (+) next to **"My Computer,"** then click on the plus (+) next to the **"C"** drive. Next, click the plus (+) next to **"Windows,"** then the plus (+) next to **"Application Data,"** then the plus (+) next to **"Microsoft,"** then the plus (+) next to **"Active Sync."** Finally, click the plus (+) next to **"Profiles,"** and the plus (+) on the **"Pocket_PC"** folder.



i. On the right side of **"Windows Explorer,"** right-click the file **"repl.dat"** and click **"Delete."**



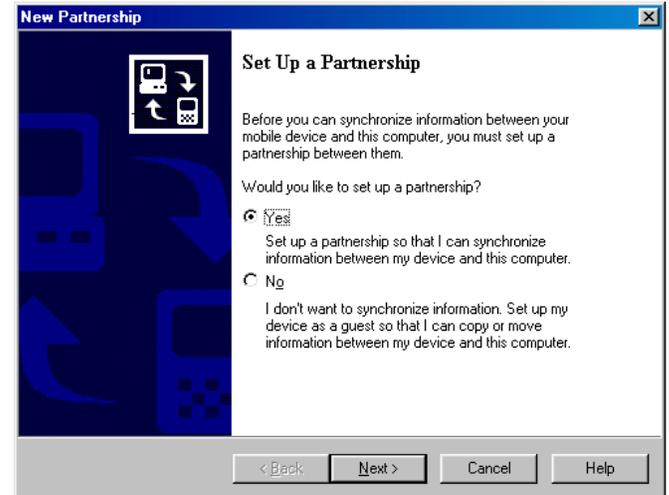
j. Click **“Yes”** to send the **“repl.dat”** file to the Recycle Bin.



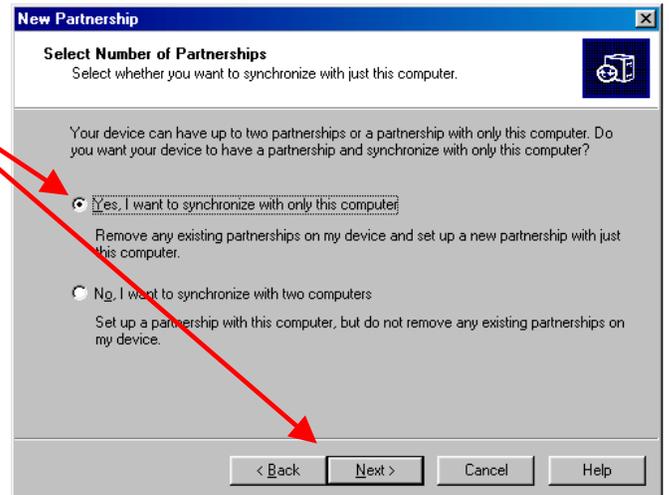
k. Close **Windows Explorer** by clicking the **“X”** on the top right hand corner of the window.

l. Return the FREEDOM-Pad to the syncradle.

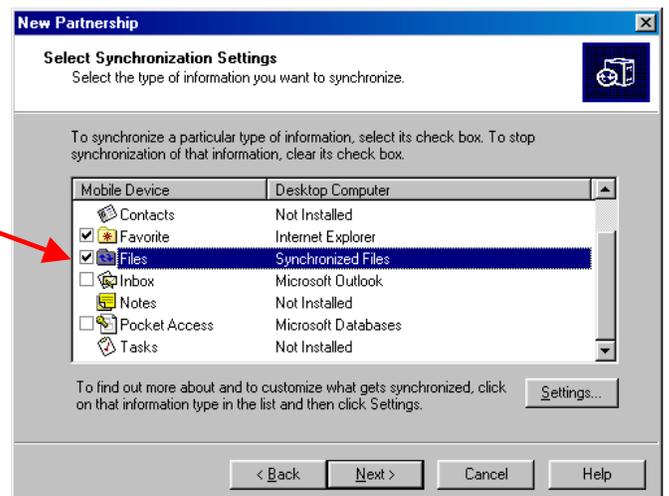
m. Select **“Yes”** and click **“Next”** to setup a partnership.



n. Select **“Yes, I want to synchronize with only this computer”** and click **“Next.”**



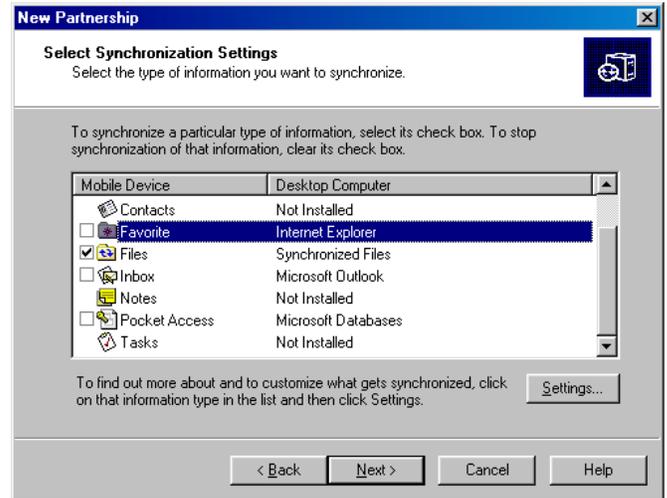
o. Select **“Files”** at the **“Select Synchronization Settings”** window.



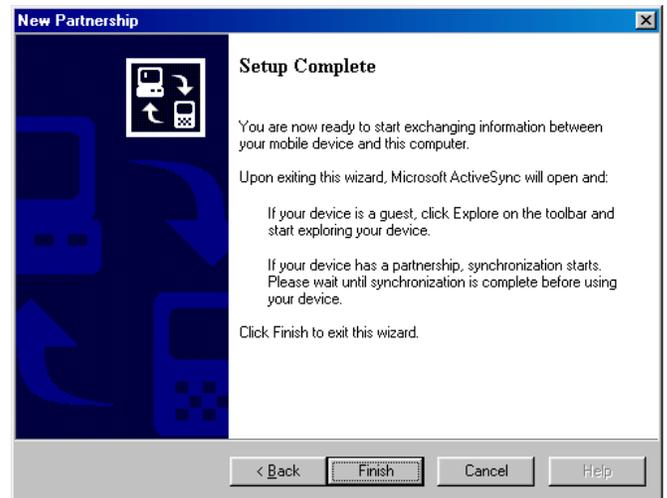
- p. Click **“OK”** at the **File Synchronization** window.



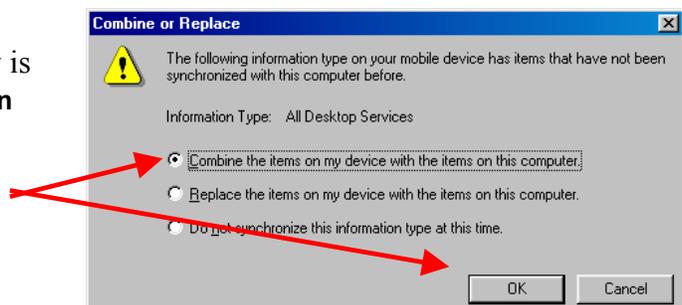
- q. Uncheck all the other boxes making sure the only box selected is **“Files”** and click **“Next.”**



- r. Click **“Finish”** to complete setup.



- s. Active Sync will synchronize the files. When the **Combine or Replace** window is displayed, select **“Combine the items on my device with the items on this computer,”** then click **“OK.”**



9. FREEDOM-Pad MAP CONFIGURATION

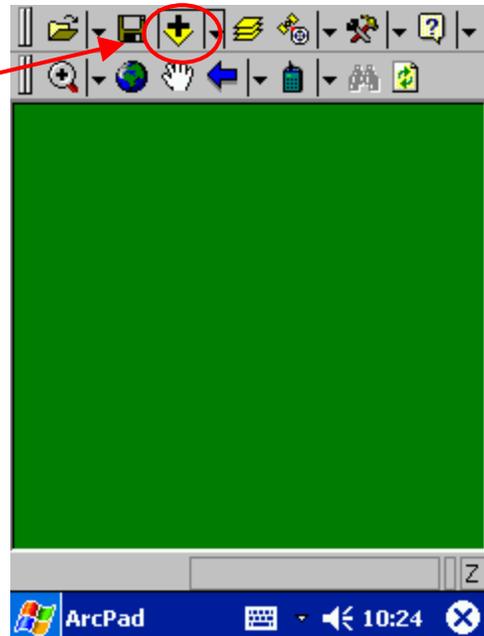
- a. Launch **ArcPad** (the map application) by tapping **Start**, then tap the **ArcPad** icon from the program list on the iPAQ.

*Note: If the Central Control is not using a map or is using a Scorecard map, it is not necessary to launch ArcPad. Please tap the **FREEDOM-Pad** icon on the program list and skip to [page 34](#).*

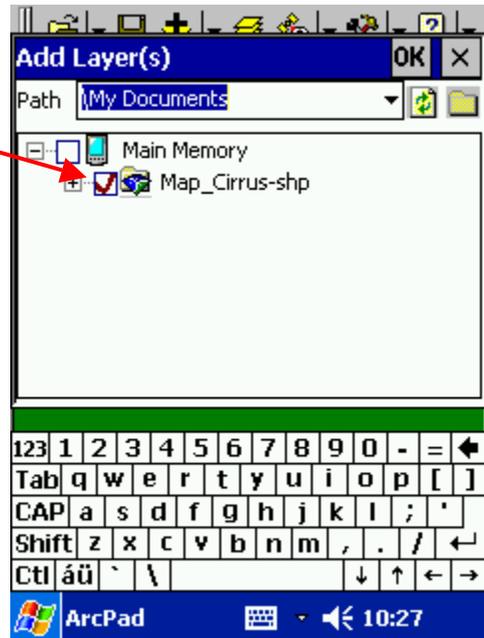
- b. Contact your local Rain Bird distributor to obtain your ArcPad Registration number. If you are unable to get the Registration number immediately, ArcPad will operate and function in the evaluation mode. The evaluation mode will time out in 20 minutes, however you may launch ArcPad again as needed.



- c. To add the map layers to the FREEDOM-Pad, tap on the **Add Layers** icon.



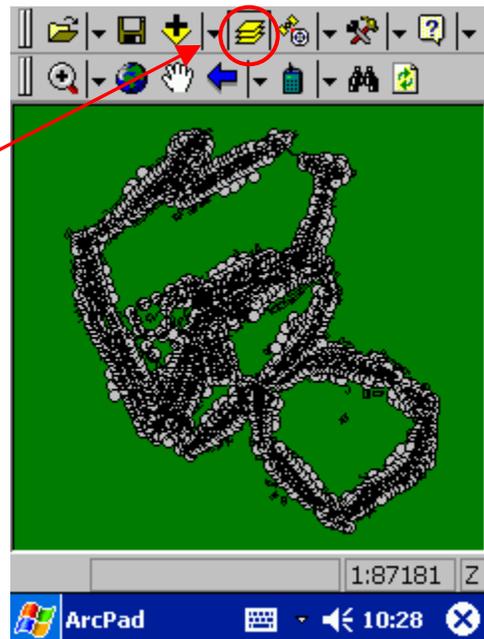
- d. Check the layers that correspond to the three-letter extension of the database that will be used in the FREEDOM-Pad.



- e. If the **Path** is not displaying the map layers, tap on the Folder Browser and select the correct folder. This will be in **“My Documents\Map_Cirrus-xxx”** (*Cirrus-xxx is the 3-digit file extension from the central control database being used*).

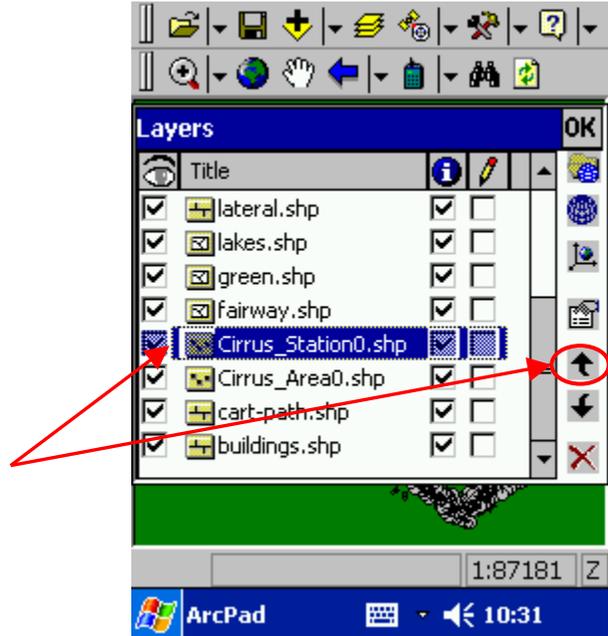
- f. Once the layers have been added, they will appear on the screen but the colors will not be set. The colors will need to be changed to highlight the different features on the map.

- g. Tap on the **Layer Tool** icon.

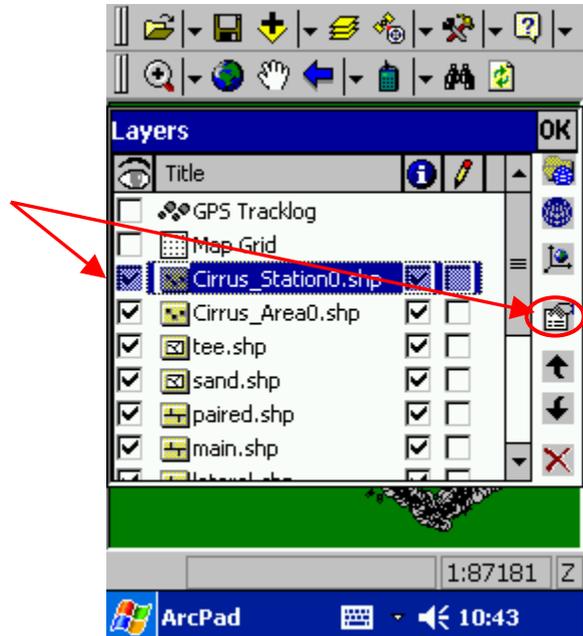


h. The layers will need to be moved to provide a logical hierarchy. This makes sure that no item is “hidden” behind another layer. The first layer that should be placed on the top is the Cirrus_Station0 layer. The layer below the Cirrus_Station0 should be Cirrus_Area0.

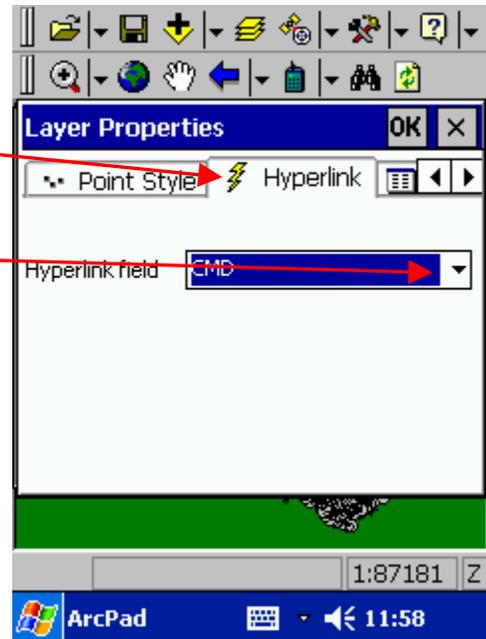
i. To move the layer, tap to highlight it and tap the up arrow until it is the top layer. Move the remaining layers to complete the hierarchy. It is customary to have the bunkers and greens near the top and the fairway layer on the bottom.



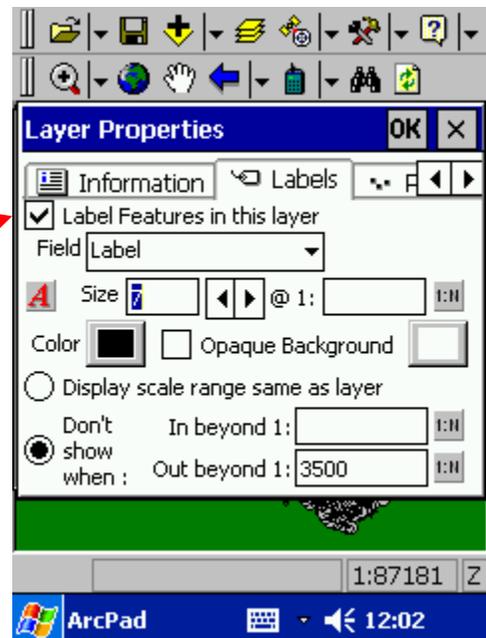
j. Next, adjust the layer properties. Tap the layer that will be adjusted. Start with the Cirrus_Station0 layer, as it needs to be set first and hyperlinked with the FREEDOM-Pad activation program. Tap the **Properties** icon.



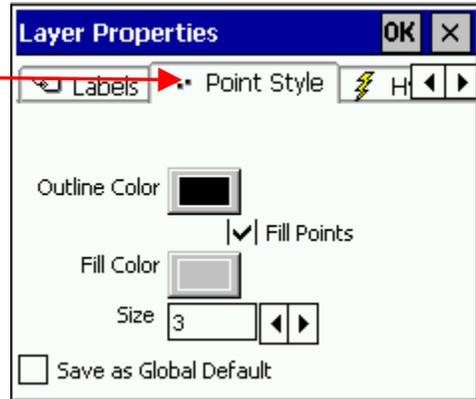
- k. Once the Layer Properties have appeared, choose the **Hyperlink** folder by tapping on the folder tab.
- l. To **Hyperlink** the stations on the map with the FREEDOM-Pad activation program, tap the browse arrow in the Hyperlink field, and then select “**CMD**” by tapping it.



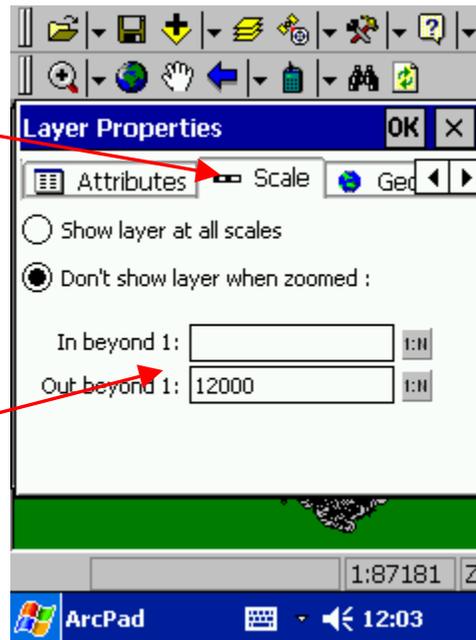
- m. In order to see the labels for the Station and Area layers, tap the **Labels** folder, check the **Label Features in this layer** box, choose the color and size of the text, and select **Label** in the Text Field Box.



- n. Selecting the **Point Style** folder will also provide the opportunity to change the color and size of the points of these fields.

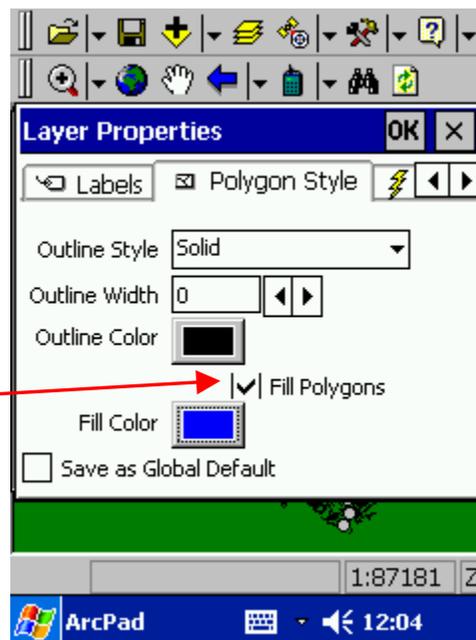


- o. Adjusting the Scale range will hide the Points and Labels of the Station and Area layers so the map is not cluttered all of the time. You may have to alter the scale until it satisfies you according to the scale of your map.



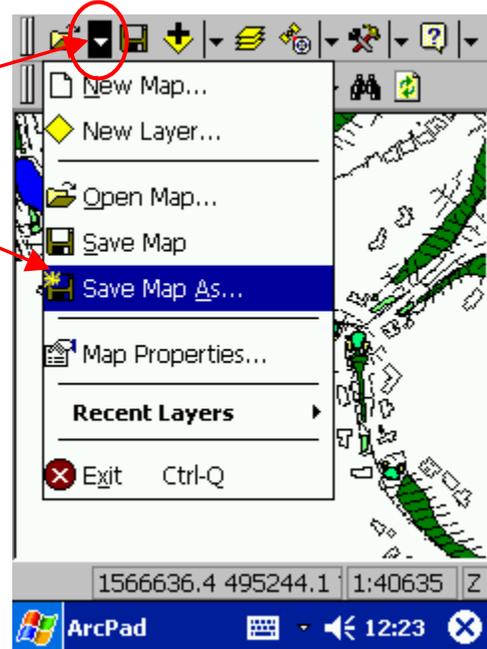
- p. Setting the range of the **Station layer** from 0 to about 15,000 is a good starting point, and the **Area layer** from about 0 to 20,000 should be close. Since this scale setting is based on the original drawing, these settings will change from one map to another.

- q. For all of the layers of the map itself, select the **Polygon Style** folder. Or if the layer is points or lines, the **Point Style** or **Line Style** folder. Then choose the colors, size, etc.



- r. Checking the **Fill Polygons** option will fill the area completely with color.

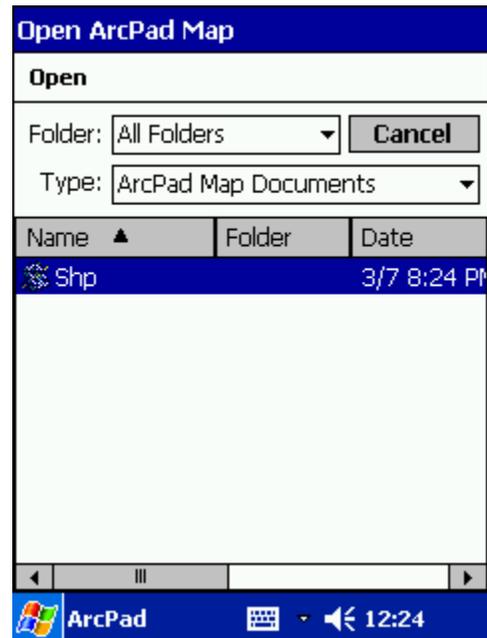
- s. Once all of the layer properties have been completed for all of the layers, save the project by tapping on the browse arrow and choose **Save Map As...**. This will allow the map to be opened quickly and will retain all of the properties that were adjusted.



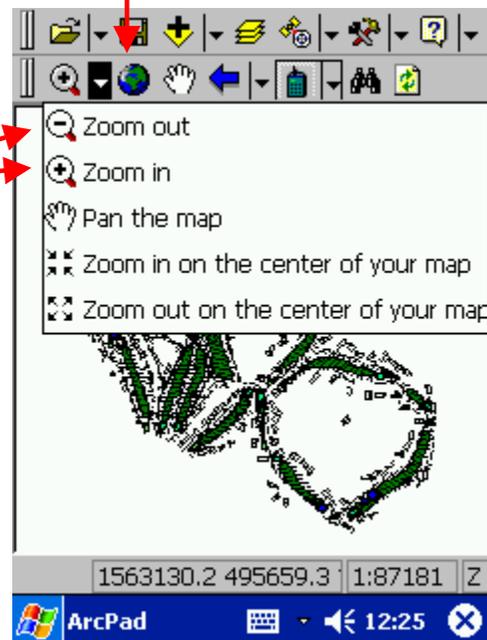
- t. Enter a project name by typing or writing it in the **Name** box by using the keyboard icon. Then tap **OK** to save it.



- u. From this point forward, in order to open the map when ArcPad is started, tap the **Open Folder** icon  on the tool bar, and then select the map name by tapping it.

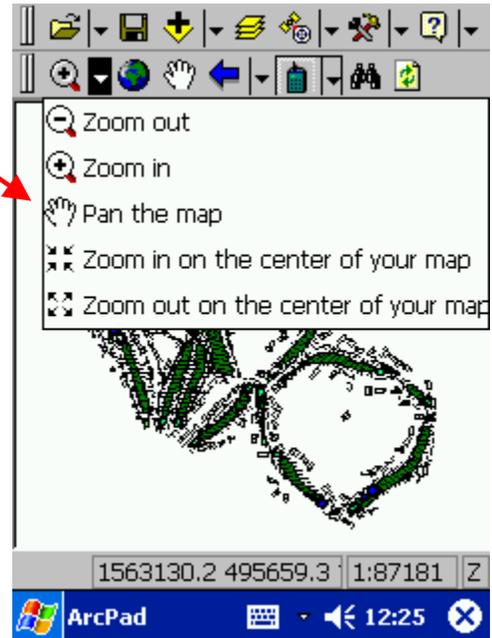


- v. The first view displayed will be the “**extended**” picture of the golf course. If the complete course is not seen, tap the “**globe**” icon.



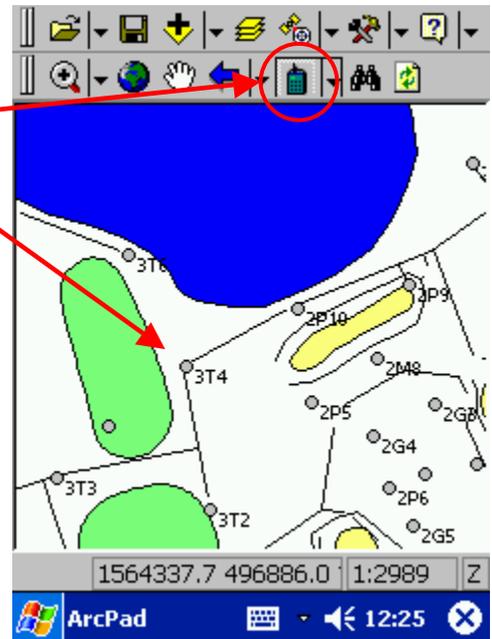
- w. Three options are available for navigating on the map:
 - 1) **Zoom in** with the ‘**plus**’ magnifying glass. To do this, make sure the ‘**plus**’ button is indented, then place the stylus on the screen and draw a square by dragging down and to the right. When the stylus is removed from the screen, the map will zoom into the area the square surrounded.
 - 2) **Zoom out** with the ‘**minus**’ magnifying glass. Choose the ‘**minus**’ magnifying glass in the drop down menu. Then tap stylus on the screen, it will zoom out from that area to a different scale. Keep tapping to continue to take the map out further.

- 3) **Pan** the map by choosing the “hand” icon. To move/slide the map, place the stylus on the screen, and then drag it to the preferred location.



- x. Once the preferred area is visible on the screen, select the FREEDOM Handheld icon to select the hyperlink to the FREEDOM-Pad Program. Tap the stylus on the circular station symbol for operation.

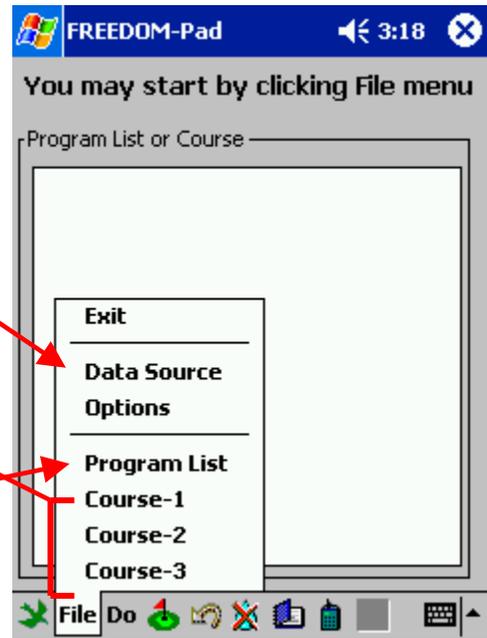
Note: This will start the FREEDOM-Pad activation program the first time this is done on the map.



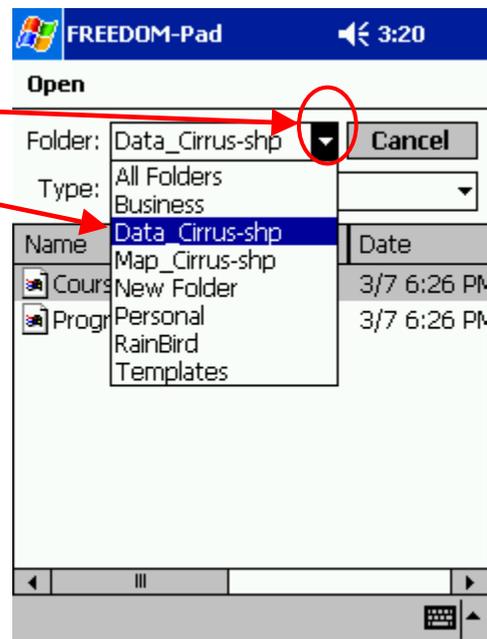
10. FREEDOM-Pad STATION ACTIVATION AND DATABASE CHANGES

- a. If the FREEDOM-Pad operation screen has not been activated before, the first screen will be blank. The Program and Course information will need to be activated. To activate them, tap **File** to bring up the options list:

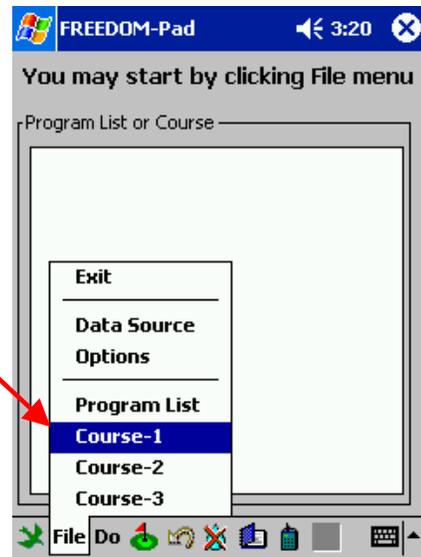
- 1) **Data Source** – identifies the database to be used.
- 2) **Course 1, 2, or 3** – identifies the station information for each of three courses related to the database.
- 3) **Program List** – displays the Programs and Schedules from the Central Control system for activation.



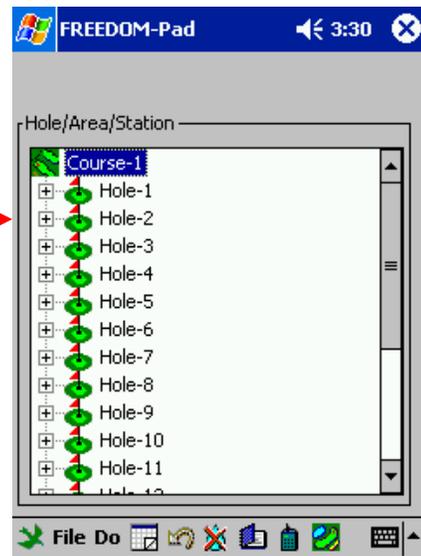
- b. Select **Data Source**, click on the **Folder** drop down menu and select the correct database that you are working with.



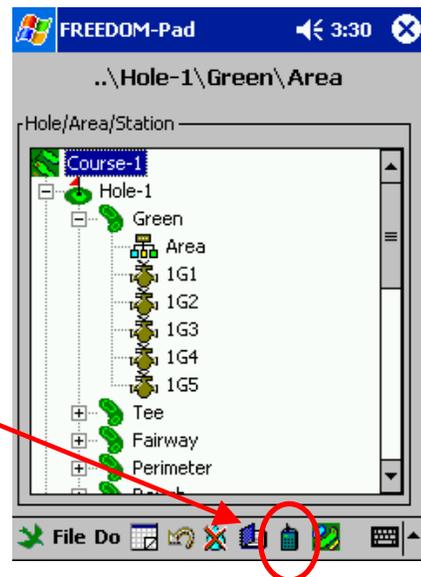
- c. Then tap **File** and select the course that you synchronized to the iPAQ earlier on.



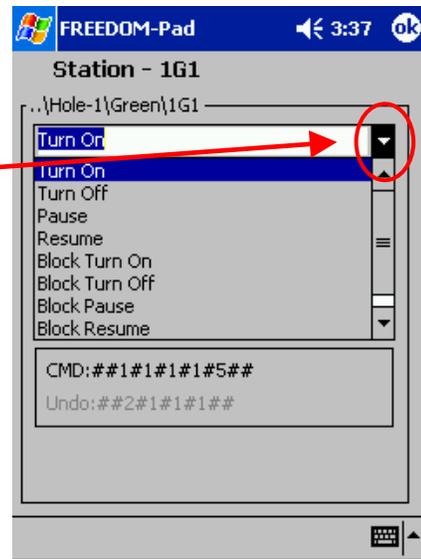
- d. Once the **Course** information is chosen and loaded, the **Hole Tree view** will be displayed on the screen. Tap on the plus (+) sign to expand the hole to see the various areas, then tap on the (+) sign of an area to expand it to see the individual stations contained in that area.



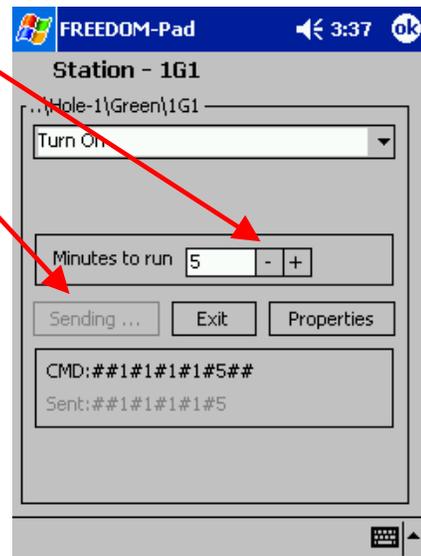
- e. At this point, it is possible to send a command to a station, or change the properties of a station. In the lower task bar, an icon is available to switch between these two tasks. If the icon is a radio, it will default to the **station command options**. If the icon is hand holding a page, it will default to the **database change properties**. This can be switched back and forth at any time during the operation of the FREEDOM-Pad.



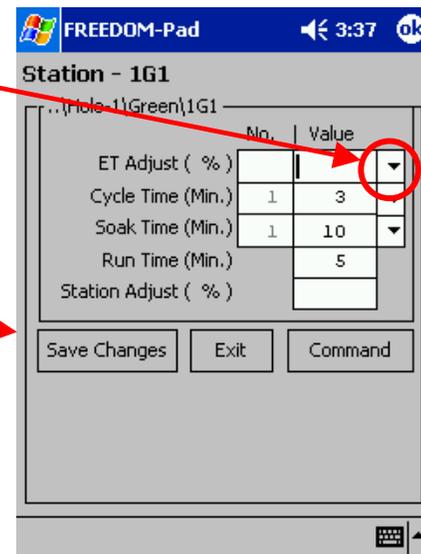
- 1) Tap on a station to bring up the command options for that station. All of the station command options on the FREEDOM-System radio are available by tapping the browse arrow.



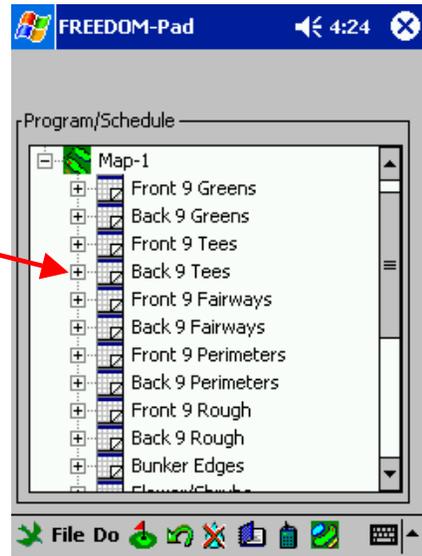
- f. To change the Run Time tap the + or - buttons to alter the task. Once the changes are made, tap the **Send** button. The *sending* command will be displayed and the tone will be sent through the FREEDOM Handheld to the central computer.



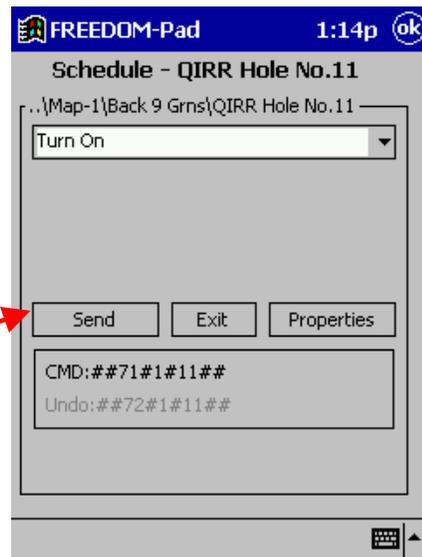
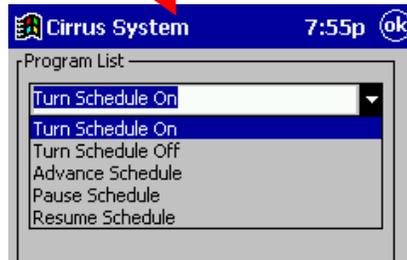
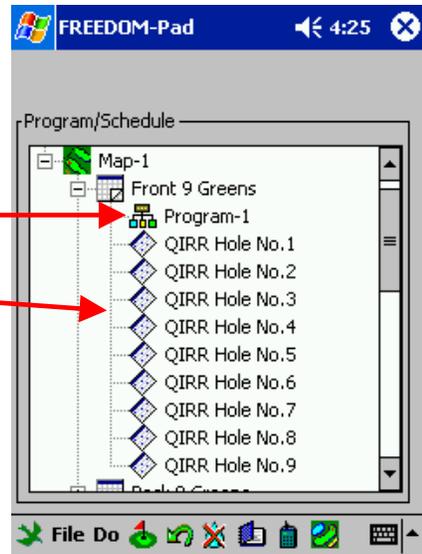
- 1) Choosing the **Properties** option provides the ability to change station database information in the central control computer. The changes on the FREEDOM-Pad can be a **Table Value** or you can enter in a “hard” number. To change the value, tap in the cell to highlight the area to be changed and edit it by tapping the keyboard icon. Alternatively, use the drop down arrow to change the **Table Value**. Next, tap the **Save Changes** button to keep the changes. Once the changes are made, it will be necessary to place the FREEDOM-Pad in the Sync cradle at the central control computer in the office.



- g. If the Program List was activated in Step 1, the **Programs** and **Schedules** from the Central Control system will be displayed. Several options are available to activate any **Program(s)** or **Schedule(s)** in the central computer. To activate a **Program** or **Schedule**, tap the **(+)** sign next to the program name to expand the list of individual schedules.

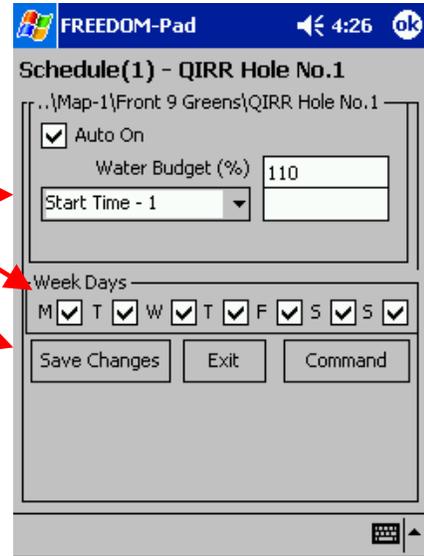


- h. Once the list is expanded, select **Program-1** to turn ON or OFF the complete program, or select an individual schedule to activate it the same way as the FREEDOM-System.



- 1) Once the activation choice is made, tap the **Send** command to forward the command to the central computer.

- i. Click on Properties to show the schedule properties.
- j. You can adjust schedule properties on this screen and save the changes.



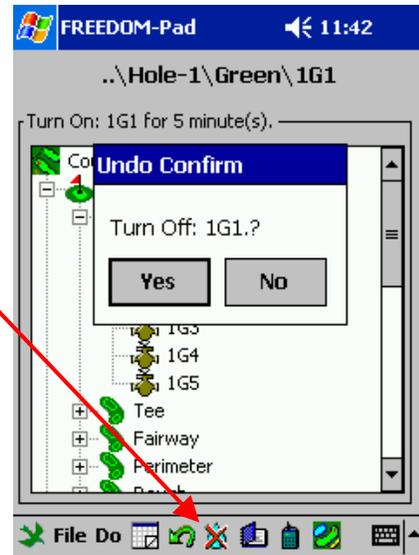
- k. Choosing the **Cancel All** option provides the ability to stop all irrigation currently active. A confirmation screen will be displayed to prevent this from occurring accidentally.



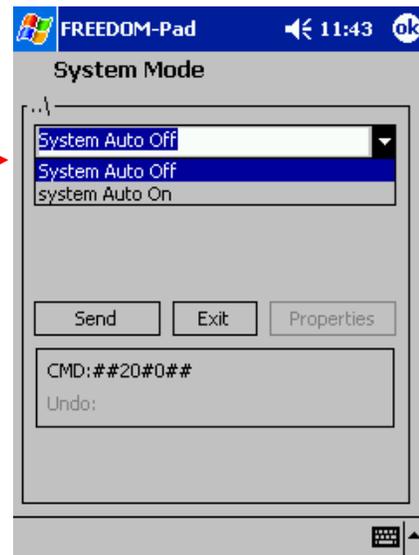
- l. Tapping the **Book** icon  will display the log of all FREEDOM-Pad commands sent during periods of activation.



- m. The **Undo** command  will reverse the last station or schedule activation. This option will ask for confirmation as well.



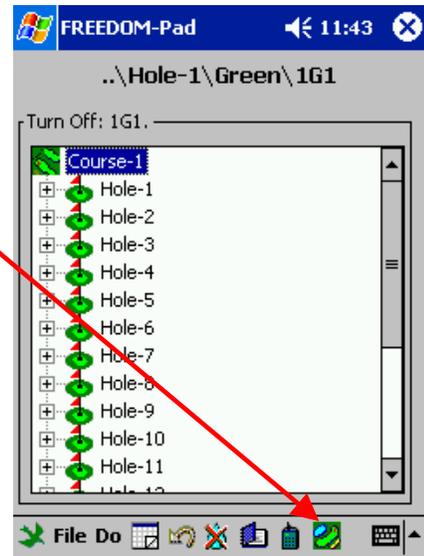
- n. The **Do** command provides access to the **System Mode** which allows for turning the complete system **OFF** or **ON** through the **Set System Auto Off/On** command.



- o. The **Do** command also allows the user to **Open** or **Close** the Access Window for the use of the FREEDOM-System. A **Password** must be entered if one was used at the central computer.

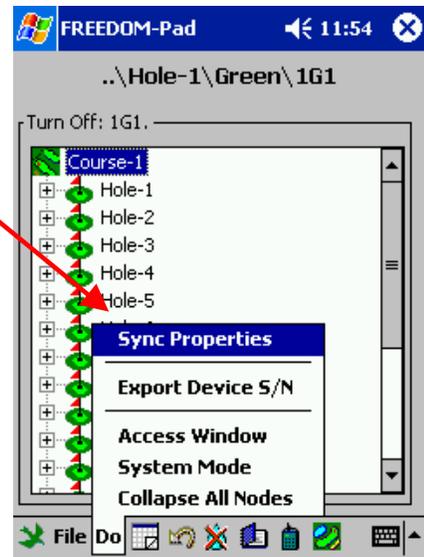


- p. Tapping the **Course** icon  at any time will provide access to the course map in ArcPad.



11. UPDATING THE CENTRAL COMPUTER WITH FIELD CHANGES

- a. Tap the **Do** button and select **Sync Properties**. Click **“Yes”** to continue with the synchronization process.



- b. Once a window appears that states that **Properties have been put in Sync folder**, it is ready to be synchronized. Place the iPAQ in the cradle and once ActiveSync has synchronized, the property changes have been updated.



- c. FREEDOM-Pad will now ask to confirm the changes that have been made. Check off the changes that you wish to make and click **“Update”**.

