

# Owner's Manual

## ***Model 880GPS GPS Attachement***



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P.O. Box 63 • 2821 Harvey Street • Hudson, WI 54016  
800-635-7468 • [www.harvesttec.com](http://www.harvesttec.com)

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## **Introduction**

Congratulations on purchasing a Harvest Tec Model 880 GPS attachment. The GPS harness will allow you attach a Garmin 16xHVS receiver to Harvest Tec's 600 moisture monitoring system or the 665 preservative applicator system. This will allow you to collect important baling information to create yield files for each individual job. The model 880GPS includes the Garmin 16xHVS receiver to connect to your Harvest Tec system, and Harvest Tec's yield mapping file converter program.

## **Overview**

The Harvest Tec model 880GPS gathers WAAS information on the fly and sends it to the main processor. With this information the system creates a yield mapping file that will be stored within the processor on 600/665 systems. This yield file, after being converted by Harvest Tec's yield mapping conversion program, can be useful to the user for present and future field management. The yield file is capable of being loaded into any type of field management software.

The yield file created will indicate where each bale was tied off. If you have Harvest Tec's Bale Identification System you will then have the ability to write that coordinate to the Tag and this will give you not only proof of what field the bale came from but also the approximate location of where the bale was made.

## **Installation of GPS Receiver & Harness**

### **Installation of GPS Receiver**

Locate the Garmin 16xHVS receiver. The GPS receiver will be mounted on top of your baler in front of the misstie flag indicators or if they're not present on a flat surface near the knotter cover/door. This location should give the GPS receiver the best available location.

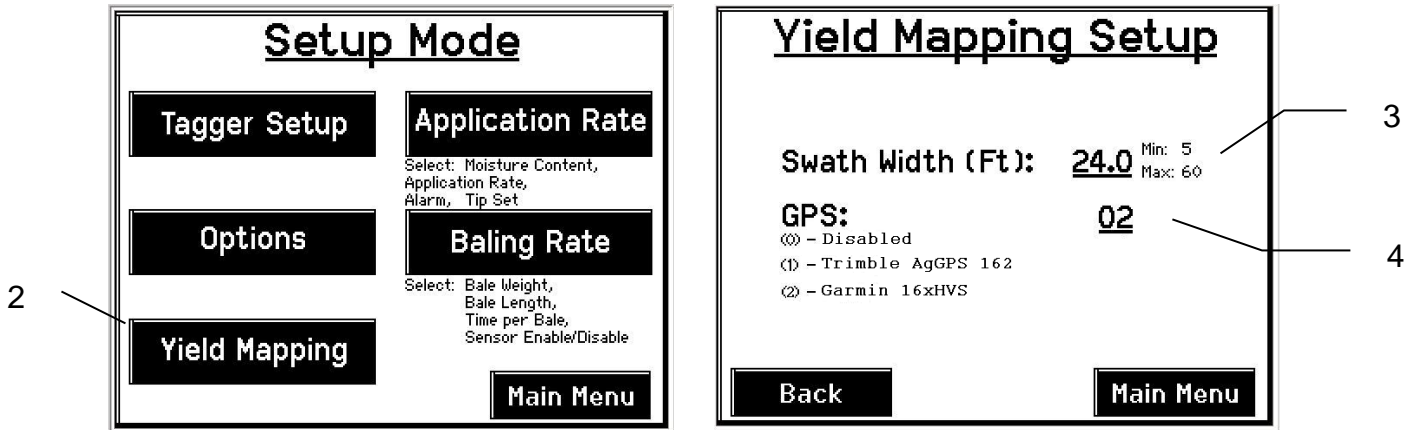
### **Installation of GPS Harness**

Connect the plug end of the harness from the Garmin receiver into the Optional Port on the Dual Channel Processor (DCP) on the baler.

Secure harness to baler with supplied cable ties, making sure wiring harness is not in any pinch points and will not come in contact with moving parts on the baler.

## Setup Instructions

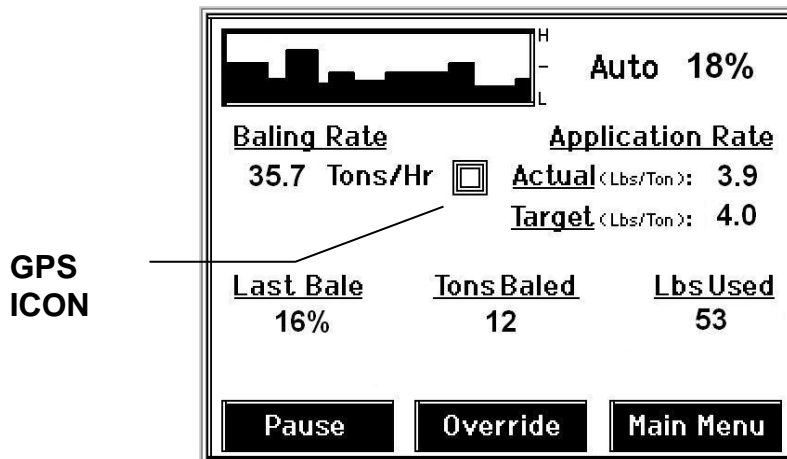
1. Turn the control system on. After a few seconds the Main Menu screen should appear. Press Setup Mode, the Setup Mode screen will then appear.
2. Press Yield Mapping setup.
  - a. Yield Mapping Setup will now be displayed.



3. Press the underlined value next to **Swath Width (Ft)**. Enter in the swath width that will be baled, press **Enter** to confirm.
4. Enter the underlined value next to **GPS**. Enabling the GPS will require entering the appropriate value. Press 0 to Disable, 2 to Enable the Garmin GPS. Press **Enter** to confirm.

## Operation Instructions

1. Once installation and setup is complete the system is ready for baling. There is a GPS indicator icon that will appear in either of the Automatic or Manual mode screens. The GPS icon shows the user that the GPS is transmitting data to the DCP to be processed. The GPS icon, if getting a good satellite signal, will continually increase/decrease in size. While all this is going on a Yield file is being created and saved to the DCP.



2. Once baling is complete, create a **New Job** and the yield data file that was written to the DCP yield file will be complete and ready to be converted. See **CONVERTING YIELD DATA FILE** for the next step.

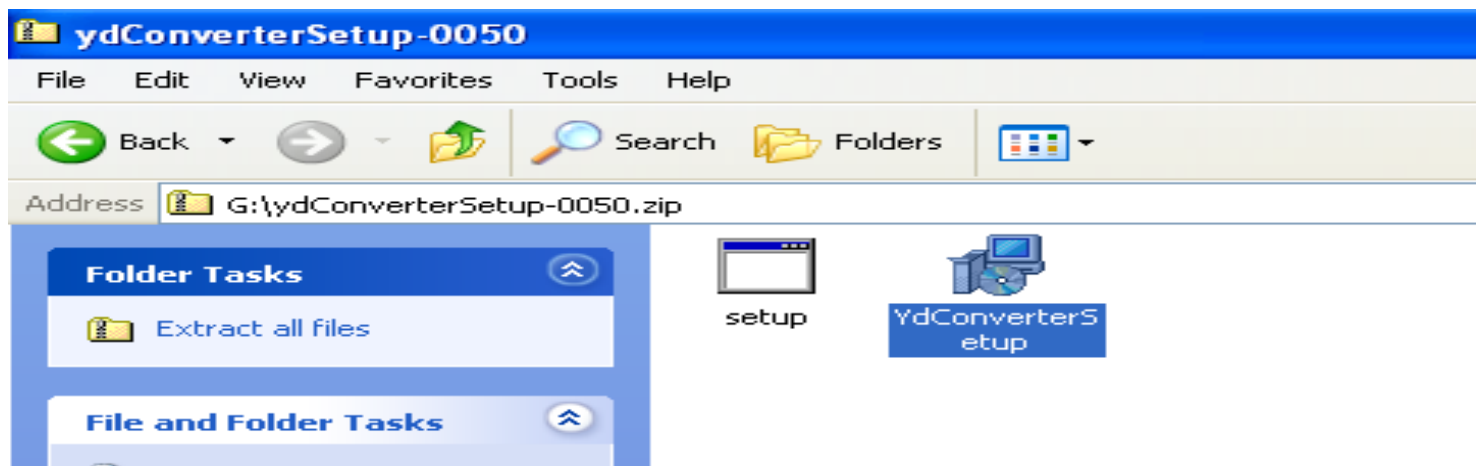
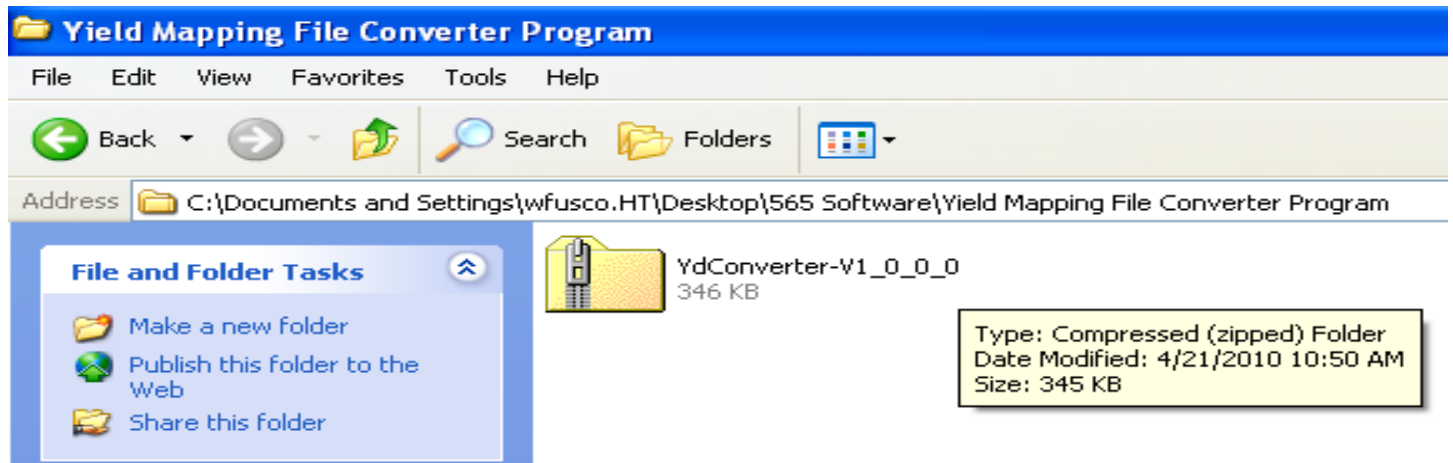
**\*NOTE:** If you're a first time user, begin with the *INSTALLATION OF YIELD DATA FILE CONVERTER PROGRAM* before attempting to convert the yield data file.

**\*There is no indication the system is connected to a GPS when using an ISO monitor or an iPad.**

## Converting Yield Data File

### PC Installation of Yield Data File Converter Program

1. Plug the USB flash provided in the 880 kit into the USB port on the computer.
2. The USB flash will have a zipped file on it and will be labeled **ydcConverterSetup-V1\_0\_0\_0**.
  - a. Double click on that folder to open it and there will be two files inside labeled **setup** & **ydcConverterSetup**. Double click on **ydcConverterSetup**.



3. A setup screen will appear, click **Next**.
4. The next screen will ask you what folder you would like to save the File Converter Program in. Use the default option and click **Next** to accept. Next a confirmation screen will appear, press **Next** to confirm. The computer will then let the Yield File Converter Program install itself (Computer will take up to a 1 min to save the yield file converter program to its desktop).



5. Once the program has been installed you will see this Icon on the computers desktop as pictured above.

## Converting Yield Data File

1. The yield data file that was created on the USB flash while baling will need to be converted before it can be utilized in a yield mapping program. Start by double clicking on the yield mapping file converter icon located on the computers desktop.
2. The program should open. Click on Select Files and navigate to the USB flash where the data files are located. Selected the file labeled as the users created job name .YDT



3. Once the .YDT file has been selected, click open to start the conversion. This process will take up to a few seconds. The converted file will read; the users created job name -ym. It will be located on the USB flash that the yield data file was created on.

**NOTE:** Once converted, the file is in the appropriate format and it can be used by any yield mapping software/program.

## Troubleshooting

<u>PROBLEM</u>	<u>POSSIBLE CAUSE</u>	<u>SOLUTION</u>
GPS icon not displaying in Auto or Manual modes	<ol style="list-style-type: none"> <li>1. GPS disabled.</li> <li>2. Harness is damaged or the connection is dirty/damaged. <i>*There is no indication of connection on an iPad or ISO Monitor.</i></li> </ol>	<ol style="list-style-type: none"> <li>1. Check Yield Mapping Setup to make sure that the GPS is enabled.</li> <li>2. Inspect GPS wiring harness and connections.</li> </ol>
Yield Map not showing up on DCP job records	<ol style="list-style-type: none"> <li>1. GPS is disabled.</li> <li>2. GPS did not connect to GPS satellites prior to baling.</li> <li>3. Harness is damaged or the connection is dirty/damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check Yield Mapping Setup to make sure that the GPS is enabled.</li> <li>2. Verify that the GPS icon is beign displayed in Automatic/Manual modes</li> <li>3. Inspect GPS wiring harness and connections.</li> </ol>

# Parts Breakdown for Model 880GPS



<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	GPS Receiver	006-6650GPS	1
2	GPS Receiver Mount	001-2012GPS	1
3	USB Converter File	006-5650USB	1

## Pin Out

### Star Wheel and Bale Rate Sensor connector on DCP

Pin 1	Red	+12V Power
Pin 2	Black	-12V Power
Pin 3	Black	Garmin RX1
Pin 4	White	Garmin TX1
Pin 5	Yellow	Signal Ground
Pin 6	N/A	
Pin 7	N/A	
Pin 8	N/A	
Pin 9	Brown	



## **Harvest Tec Inc. Warranty and Liability Agreement**

Harvest Tec, Inc. will repair or replace components that are found to be defective within 12 months from the date of manufacture. Under no circumstances does this warranty cover any components which in the opinion of Harvest Tec, Inc. have been subjected to negligent use, misuse, alteration, accident, or if repairs have been made with parts other than those manufactured and obtainable from Harvest Tec, Inc.

Our obligation under this warranty is limited to repairing or replacing free of charge to the original purchaser any part that in our judgment shows evidence of defective or improper workmanship, provided the part is returned to Harvest Tec, Inc. within 30 days of the failure. If it is determined that a non-Harvest Tec branded hay preservative has been used inside the Harvest Tec applicator system where the failure occurred, then Harvest Tec reserves the right to deny the warranty request at their discretion. Parts must be returned through the selling dealer and distributor, transportation charges prepaid.

This warranty shall not be interpreted to render Harvest Tec, Inc. liable for injury or damages of any kind, direct, consequential, or contingent, to persons or property. Furthermore, this warranty does not extend to loss of crop, losses caused by delays or any expense prospective profits or for any other reason. Harvest Tec, Inc. shall not be liable for any recovery greater in amount than the cost or repair of defects in workmanship.

There are no warranties, either expressed or implied, of merchantability or fitness for particular purpose intended or fitness for any other reason.

This warranty cannot guarantee that existing conditions beyond the control of Harvest Tec, Inc. will not affect our ability to obtain materials or manufacture necessary replacement parts.

Harvest Tec, Inc. reserves the right to make design changes, improve design, or change specifications, at any time without any contingent obligation to purchasers of machines and parts previously sold.

Revised 4/17

**HARVEST TEC, INC.**  
**P.O. BOX 63**  
**2821 HARVEY STREET**  
**HUDSON, WI 54016**  
**PHONE: 715-386-9100**  
**1-800-635-7468**  
**FAX: 715-381-1792**  
Email: [info@harvesttec.com](mailto:info@harvesttec.com)