Installation Manual

Model 664
Automatic Preservative Applicator

HARVEST TEC *Equipment and Products for Quality Hay.*™

P.O. Box 63 ◦ 2821 Harvey Street ◦ Hudson, WI 54016
800-635-7468 ◦ www.harvesttec.com

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Harvest Tec Model 664 Installation Table of Contents

Introduction

Thank you for purchasing a Harvest Tec Model 664 Hay Preservative Applicator. This 664 applicator system has been designed to be operated through an Apple iPad (not included) using the Hay App. As well as the option to plug directly into most tractors that have an ISOBUS Monitor. The 664 Applicator System offers these advantages by operating through an Apple iPad:

1. Large bright, clear, colorful display
2. More durable and can be read in bright sunlight
3. Can be used for multiple other uses than just the applicator display
4. Option to tie-into the tractor ISOBUS system

This manual will take you through the steps for installing the update to the automatic applicator. If you are unsure about installing the system after consulting this manual, please contact your local authorized dealership for additional assistance. If you are in need of parts for the system please see the parts breakdown in the back of this manual and contact your local authorized dealer to order the parts. This applicator is designed to apply Harvest Tec buffered propionic acid.

Right and Left sides are determined by facing in the direction of forward travel.

System Requirements

*Made for iPad® (3rd through Pro 2nd generation), running the current iOS operating system or one version previous required for iPad option
*iPad is a trademark of Apple Inc., registered in the U.S. and other countries.

**600 Series Applicators with serial number before DCP27000 will require the DCP to be sent to Harvest Tec for a required update in order to use the iPad Integration Module (030-6672C).

*Hay App version must be **at least 2.5.18 (or higher)** to operate with the iPad Integration Module

If choosing to operate the unit though the ISOBUS monitor, pn 006-6670A will need to be ordered through your local equipment dealer. 2018 Krone balers (and beyond) Serial Number 976909 will need pn 006-6650VAK.

Tools Needed:

- Standard wrench set
- Side cutter

1. Installation of Dual Channel Processor (DCP)

The Dual Channel Processor (DCP) has the same bolt pattern as the Precision Information Processor (PIP) you will be removing. The location of the main controller does not change so use the same holes and install the new Dual Channel Processor (DCP) in the same location with two 5/16" x 1" bolts, two 5/16" x 1-1/4" bolts, locks, fender washers and hex nuts. Mount the DCP cover over the top of the DCP and secure with the hardware using the 5/16" x 1-1/4" bolts on the top with the DCP shield.

DCP or PIP Location

AGCO Balers

Figure 1

Figure 2
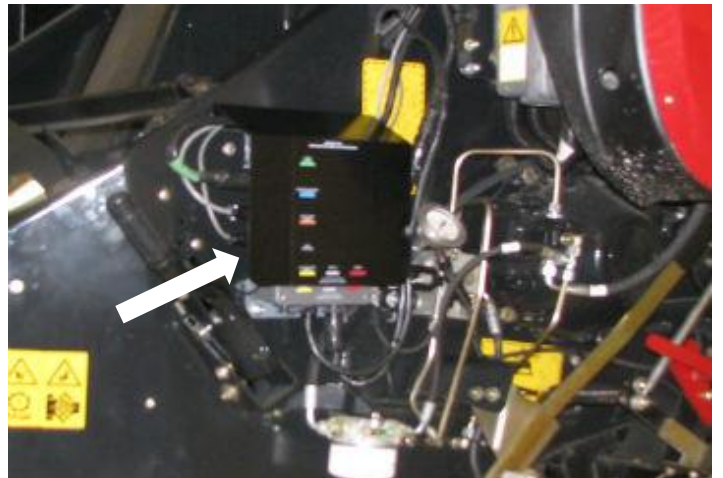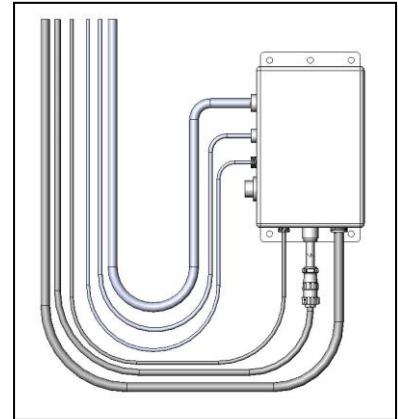
CNH Balers

Figure 3

Figure 4

2. Installation of Main Power / Communication Harness

Route cords 006-6650LS2 along this path or similar inside of the baler. Keep cords away from moving parts and hydraulic hoses. Secure with existing cable clamps or use cable ties. When all connections are made to DCP secure wires.
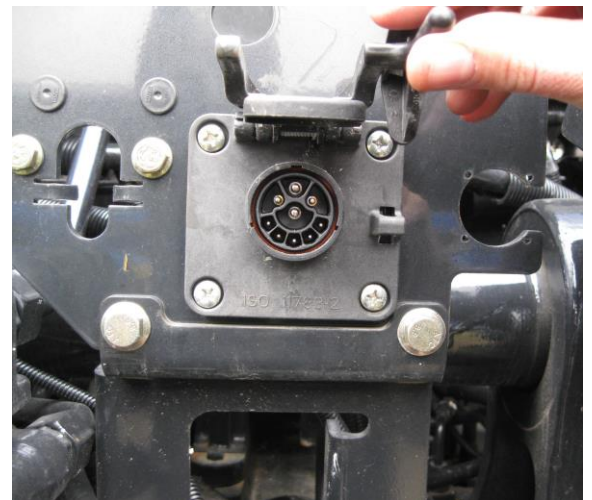

Connecting the optional ISOBUS plug to the tractor

Attach the optional ISOBUS connector (006-6670A) to the end of the communication harness (006-6650TM).

Connect the orange wires and attach the plug to the tractor's ISOBUS port.

Then connect the ISOBUS connector to the ISOBUS plug on the tractor.

Installation of iPad Integration Control

Locate a safe location in the cab of the tractor to place the iPad Integration Control (030-6672C). Recommended location is securely fastened out of the operators way in a location that is close enough to reach with the iPad cord.

Connect the Power / Communication harness (006-6650TM(E)) to the bottom of the receiver.

To operate the applicator, plug the iPad cord into the communication port indicated by:
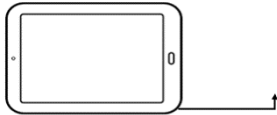
iPad Integration Control Light Signals

Green Slow Blink – Power supplied to the applicator system and the unit is going through its startup process. This will take approximately 25-35 seconds.

Green Double Blink – Indicating the iPad module recognizes the iPad but the app is not open or connected.

Green Solid Light – Module is connected to the app and is ready to operate.

*Recommended to use the USB cable included with the applicator kit (006-6672USBC)

Bluetooth Receiver Lights

Pre-2020 applcaitors equipped with Bluetooth receivers (030-6672B) are now equipped with lights to indicate both power and Hay App connection on the Apple iPad. Clean light regularly

Blinking Lights – System is waiting for the processor to connect, which could take up to 35 seconds.

Red Light – The Bluetooth receiver has power

Green Light – The Bluetooth receiver is connected to the Hay App.

600 Series Applicators with serial number before DCP27000 will require the DCP to be sent to Harvest Tec for a required update in order to use the iPad Integration Module (030-6672C).

Hay App version must be **at least 2.5.18 (or higher)** to operate with the iPad Integration Module

*Made for Apple iPad badge
Use of the Made for Apple iPad badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with an Apple product may affect wireless performance.

Wiring Diagram

1. The **Baler Power/Communication Harness** (006-6650LS2) will attach to the open port of the Tractor **Harness** (006-6650TM) and run back to the **Dual Channel Processor** (006-6671LS). Connect the large plug of the Baler Power/Communication Harness (006-6650LS) to the bottom (shorter side) of the DCP.
2. Install green terminator (006-5650Z) to the port labeled **Modular Port** on the Pump Controller (006-5672).
3. Attach moisture and bale rate harness 006-7303H (Claas & Krone kits 006-7303HX) as well as the end of bale harness (006-7400) to the DCP (006-6671LS).
4. Attach the Pump Control Harness (006-5650FM) between the Pump Controller (006-5672) and the DCP (006-6671LS).
5. Connect the orange wires and attach the plug to the tractor's ISOBUS port.
6. If using the optional ISOBUS connector (006-6670A) connect the end to the Communication Harness (006-6650TM) in place of the iPad Integration Control (030-6672C) shown below.
7. Connect the orange keyed power wires (006-5650K) and attach the plug to the tractor's ISOBUS port.
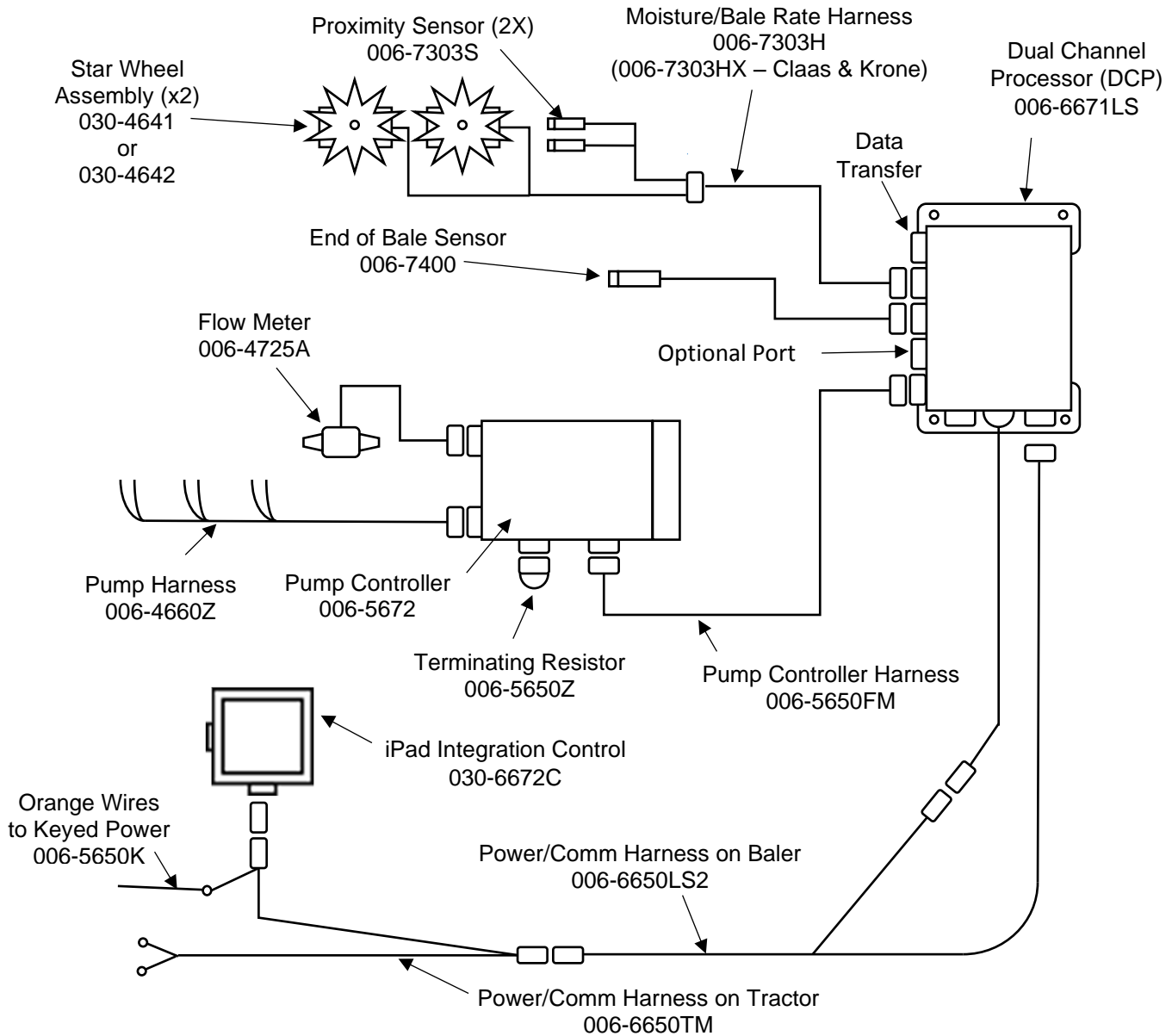
*Claas 3200-3400 balers will have star wheel assembly 030-4642 for mounting on side of bale chamber

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Pin Outs

Power/Comm Harness 006-6650TM at Hitch
Pin 1   Red   +12V Power to TSD
Pin 2   Red   +12V Power to DCP
Pin 3   Orange   Keyed Power
Pin 4   Gray   Shield
Pin 5   Green   HT Can Low
Pin 6   Yellow   HT Can Hi
Pin 7   Orange   Can1 Hi
Pin 8   Black   Ground from TSD
Pin 9   Black   Ground from DCP
Pin 10 Blue   Can1 Low

Power/Comm Harness 006-6650LS2 at Hitch
Pin 1   Red   +12V Power to TSD
Pin 2   Red   +12V Power to DCP
Pin 3   Orange   Keyed Power
Pin 4   Gray   Shield
Pin 5   Green   HT Can Low
Pin 6   Yellow   HT Can Hi
Pin 7   Orange   Can1 Hi
Pin 8   Black   Ground from TSD
Pin 9   Black   Ground from DCP
Pin 10 Blue   Can1 Low

iPad Integration Control / BLE on Harness 006-6650TM
Pin 1   Red   +12V Power from DCP
Pin 2   Black   Ground from TSD
Pin 3   Yellow   HT Can Low
Pin 4   Gray   Shield
Pin 5   Green   HT Can Hi
Pin 6   Orange   Can1 Hi
Pin 7   Blue   Can1 Low
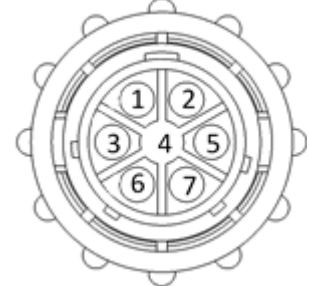
ISOBUS Plug Baler Side
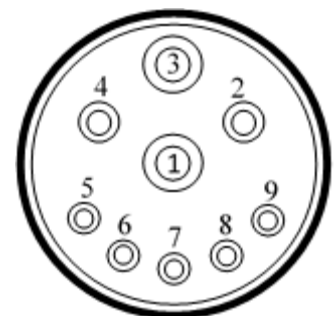Pin 1   N/A
Pin 2   N/A
Pin 3   120 OHM with Pin 5
Pin 4   N/A
Pin 5   120 OHM with Pin 3
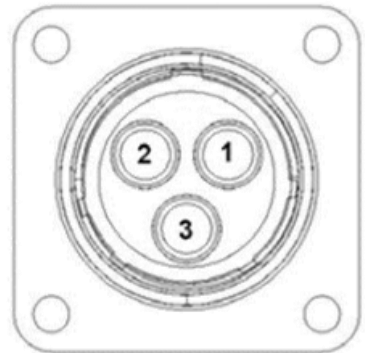Pin 6   Orange   Can1 Hi
Pin 7   Blue   Can1 Low

ISOBUS Plug Tractor Side
Pin 1   N/A
Pin 2   N/A
Pin 3   +12V Keyed Tractor Power
Pin 4   N/A
Pin 5
Pin 6   N/A
Pin 7   N/A
Pin 8 Orange   Can1 Hi
Pin 9 Blue   Can1 Low

Pin Outs (continued)

Main Power Connector on DCP
Pin 1   Red   +12V Power from tractor
Pin 2   Black   Ground from tractor
Pin 3   Orange   Keyed power
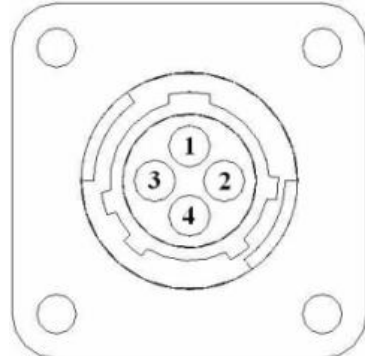
Star Wheel and Bale Rate Sensor connector on DCP
Pin 1   Blue   +12V Power
Pin 2   Orange   Ground
Pin 3   Black   Signal for sensor 1
Pin 4   White   Signal for sensor 2
Pin 5   N/A
Pin 6   N/A
Pin 7   N/A
Pin 8   Violet   Star wheel input 1
Pin 9   Brown   Star wheel input 2

End of Bale sensor on DCP
Pin 1   Brown   Sensor Power
Pin 2   Blue   Sensor Ground
Pin 3   N/A
Pin 4   Black   Signal from Sensor

Pump Connection Colors
Pin 1   Black with Orange Stripe   Pump 1 Ground
Pin 2   Black with Green Stripe   Pump 2 Ground
Pin 3   Black with Yellow Stripe   Pump 3 Ground
Pin 4   N/A
Pin 5   Orange with Black Stripe   Pump 1 Positive
Pin 6   Green with Black Stripe   Pump 2 Positive
Pin 7   Yellow with Black Stripe   Pump 3 Positive
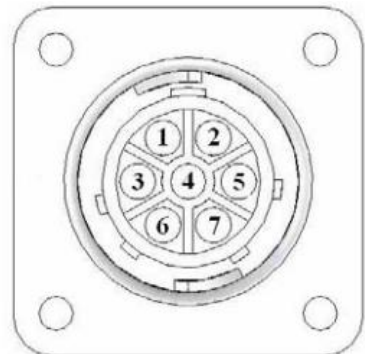
Parts Breakdown
(Converting a 500 Series to a 600 Series)

Ref	Description	Part Number	Qty
1	Key Switch Wire-orange	006-5650K	1
2	DCP Main Control LS 600 Auto	001-6671LS2	1
3	Terminating Resistor 500 Series-green	006-5650Z	1
4	Dust Plug (only one included)-yellow	006-5651Plugs	1
5	DCP Baler Harness 30 ft	006-6650LS2	1
6	DCP Tractor Harness	006-6650TM	1
7	iPad Integration Control	030-6672C	1
NP	Optional ISOBUS Adapter Plug (not included)	006-6670A	1
NP	USB Cord	006-6672USBC	1
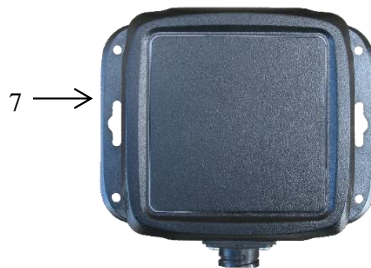
Notes

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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.

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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