Operation Manual

Model 601, 700, 701

Microwave Moisture Bale Chute System & Pre-Compression Chamber System

HARVEST TEC

Equipment and Products for Quality Hay. ™

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

DECLARATION OF INCORPORATION

$C\epsilon$

MANUFACTURER: Harvest Tec LLC.
                                                              2821 Harvey St.
                                                              P.O. Box 63
                                                              Hudson, WI 54016, U.S.A.

REPRESENTATIVE ESTABLISHED IN COMMUNITY: Profitable Farming Company
                                                              Middle Barlington, Roborough
                                                              Winkleigh, Devon, EX19 8AG
                                                              ENGLAND

The person above certifies and declares that:

VIRTUAL MACHINE: Equipment mounted on a farm press and for the application of innoculants onto forage crops.
MODEL: 601, 700, 701-17-OPR – Imp&Metric
BRAND: Harvest Tec
PATENT NUMBER: US 9,854,743 B2:

This application preservatives for hay Harvest Tec system meets the Directive 2006/42/EC of the European Parliment and the Council of 17 May 2006 and other applicable European Directives including Directive 2004/108/EC on the Electromagnetic compatability.

The application of preservatives for hay Harvest Tec system will be turned on after being installed on a farm press has been declard in conformity with the Machinery Directive.

Person in the community authorized to provide information on the partly completed machinery and making this statement:

                              Richard Snell, President, Profitable Farming Company
                              Signed on May 21, 2011: Middle Barlington, Roborough
                                                  Winkleigh, Devon, EX19 8AG
                                                  ENGLAND

601, 700, 701 Operation Manual Table of Contents

Introduction

Thank you for purchasing this 601, 700 or 701 Microwave Moisture Sensor Kit. The Microwave Moisture Sensor Kit is designed to operator through the baler's ISOBUS system and/or an Apple iPad (not included) using the Hay App.

This manual will take you through the steps of the operation of the moisture sensor. Please read this manual carefully to learn how to operate the equipment correctly. Failure to do this can result in personal injury or equipment malfunction. If you are unsure about operating the system after consulting this manual, contact your local authorized dealership for additional assistance or look for the contact information on the back cover of this manual. If you are in need of parts for the system please view the Parts Breakdowns in the back of this manual and contact your local authorized dealer to order the parts.

Refer to your moisture only system or complete preservative applicator operation instructions for the complete operation of the system.

System Requirements

CNH Balers

The Baler Control Module (BCM) must have Version 4.2.0.0 or higher.

*Requirement to run iPad option are 3rd Generation iPad (2012) or newer with iOS8 or greater operating system, plus the Hay App.

AGCO Balers

The Baler Processor must have Version 3.3 or higher. C1000 must have version 3.0.1 or higher

*Requirement to run iPad option are iOS8 or greater operating system, plus the Hay App.

**When new software is update to version 57464 (or newer) the amount of time to update the system may take up to 3 hours depending on the amount of bale information saved on the DCP. This will clear the prior information, restores default settings and turns on the Pump Module. ** Be sure to save any information on the applicator you may need before updating software

Moisture System Setup - MWM-Chute
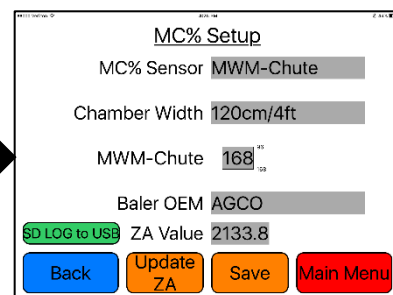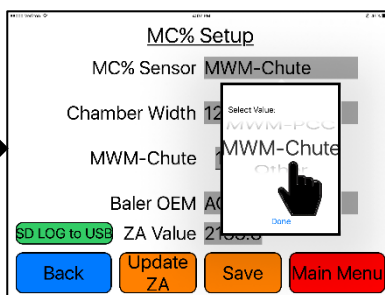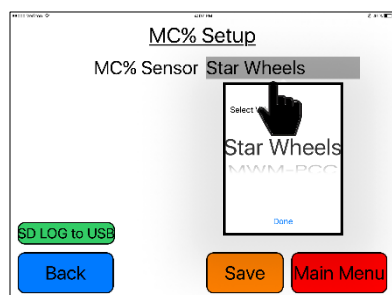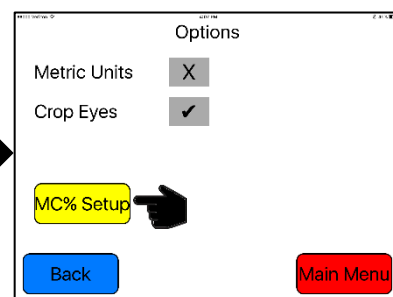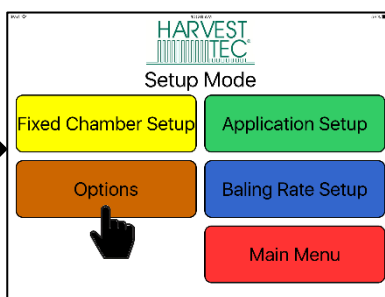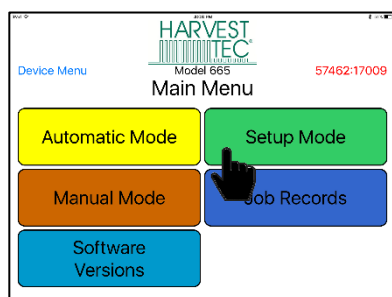
Select the microwave mosture sensor option
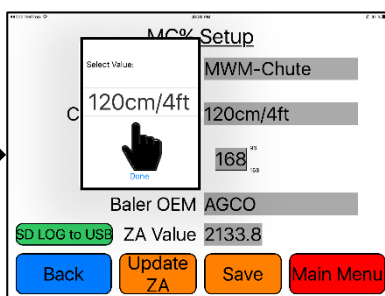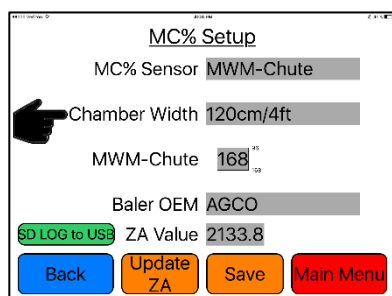
Select the correct chamber width

Select Chute Length

Change Baler OEM if Necessary

Choose between AGCO, CNH, John Deere, Krone

Moisture System Setup - MWM-PCC (Pre-Compression Chamber)

Only available for AGCO 2100-2200 Series Balers and CNH BB & LB Balers
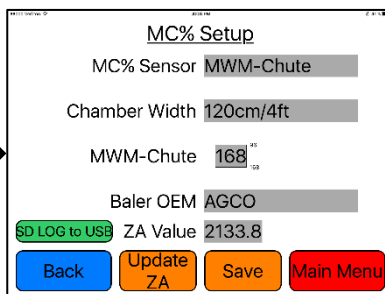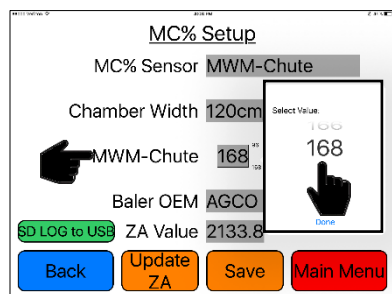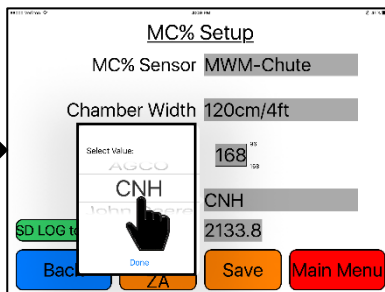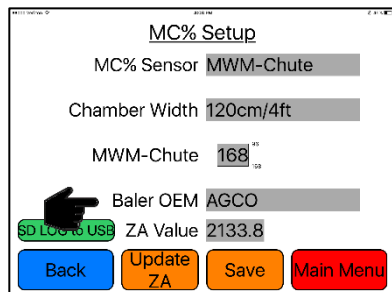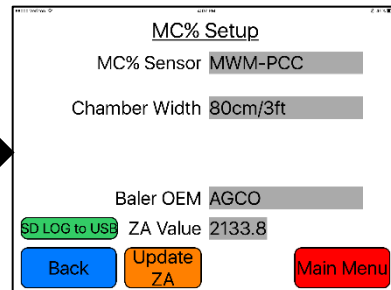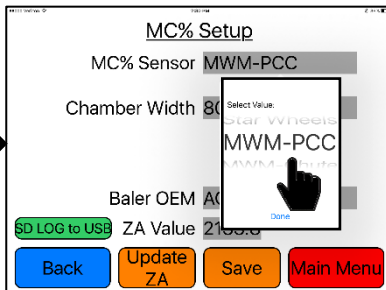
Main Menu

HARVEST TEC
Model 665
Device Menu   57462:17009

Main Menu

- Automatic Mode
- Setup Mode
- Manual Mode
- Job Records
- Software Versions

Setup Mode

HARVEST TEC

Setup Mode

- Fixed Chamber Setup
- Application Setup
- Options
- Baling Rate Setup
- Main Menu

Options

- Metric Units   X
- Crop Eyes   ✔
- MC% Setup
- Back
- Main Menu

MC% Setup

MC% Sensor Star Wheels

Star Wheels
MWM-PCC
Done

SD LOG to USB
Back   Save   Main Menu

MC% Setup

MC% Sensor MWM-PCC
Chamber Width 80

Star Wheels
MWM-PCC
Done

Baler OEM AGCO
SD LOG to USB ZA Value 2133.8
Back   Update ZA   Save   Main Menu

Select the microwave mosture sensor option

MC% Setup

MC% Sensor MWM-PCC
Chamber Width 80cm/3ft

Baler OEM AGCO
SD LOG to USB ZA Value 2133.8
Back   Update ZA   Main Menu

MC% Setup

MC% Sensor MWM-PCC
Chamber Width 80cm/3ft

Baler OEM AGCO
SD LOG to USB ZA Value 2133.8
Back   Update ZA   Save   Main Menu

Change Chamber Width

MC% Setup

MC% Sensor MWM-PCC

80cm/3ft
120cm/4ft
Done

120cm/4ft
Baler OEM AGCO
SD LOG to USB ZA Value 2133.8
Back   Update ZA   Save   Main Menu

Select Correct Width

MC% Setup

MC% Sensor MWM-PCC
Chamber Width 120cm/4ft

Baler OEM AGCO
SD LOG to USB ZA Value 2133.8
Back   Update ZA   Save   Main Menu

MC% Setup

MC% Sensor MWM-PCC
Chamber Width 120cm/4ft
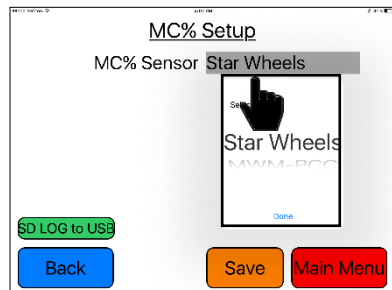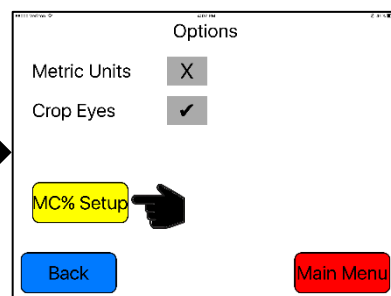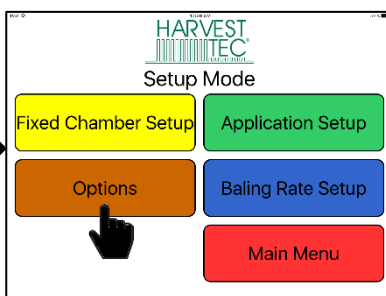
Baler OEM AGCO
SD LOG to USB ZA Value 2133.8
Back   Update ZA   Save   Main Menu

Change Baler OEM if necessary

MC% Setup

MC% Sensor MWM-PCC
Chamber Width 120cm/4ft

AGCO
CNH
Done

CNH
SD LOG to USB 2133.8
Back   ZA   Save   Main Menu

Choose between AGCO and CNH

MC% Setup

MC% Sensor MWM-PCC
Chamber Width 120cm/4ft

Baler OEM CNH
SD LOG to USB ZA Value 2133.8
Back   Update ZA   Save   Main Menu
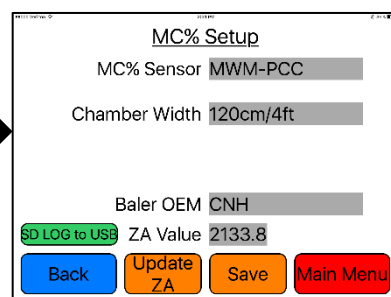
Moisture Sensor Setup (continued)
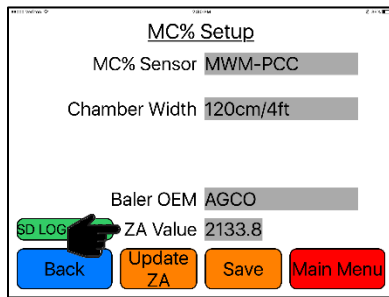
Ensure Bale Chamber or PCC is empty before updating ZA value (Zero Adjustment)
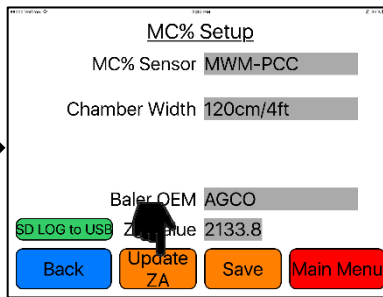
Select the Update ZA button
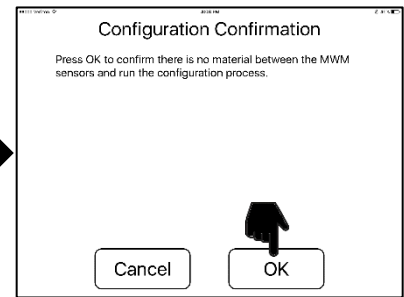
Follow direction on Configuration Confirmation and select OK
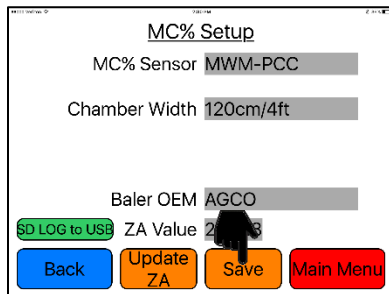
After reading is taken, select Save

ZA RANGE (Zero Adjustment) Same for Chute or PCC Setup	
AGCO	2200 - 3000
CNH	2200 - 3000
John Deere	2200 - 3000
Krone	2200 - 3000
Other	2200 - 3000

If the reading is within range no adjusts need to be made
Ensure Bale Chamber or PCC is empty before updating ZA Value
This range is for both 3' and 4' (1M & 1.2M) wide balers

Operation Instructions

Selecting Moisture Sensor – MWM Chute
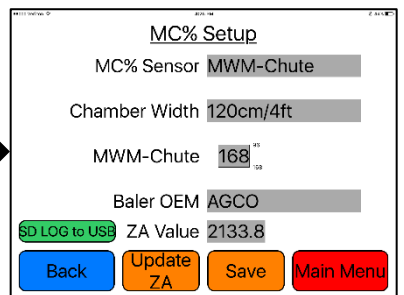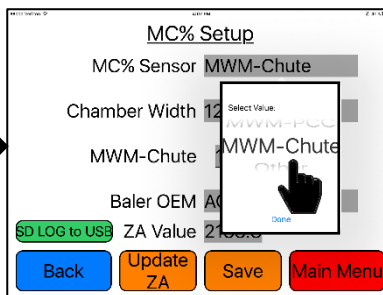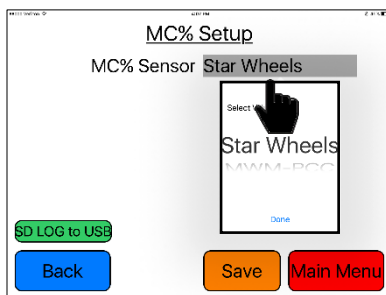
1. To change the moisture sensing system between the Star Wheels, MWM-PCC, MWM-Chute and other system select the grey area next to the Moisture Sensor (MC%).

2. A scrolling menu will appear. Select the desired moisture system to use and select Done.

Note: Due to the location of the microwave moisture sensor unit mounted on the back of the bale chute (701MWM). **If connected to a complete automatic applicator system, the applicator will not function in Automatic Mode.** The Star Wheel moisture system must be used to apply preservative in Automatic Mode.

If connected to a complete automatic applicator system a PAC error message will appear when selecting MWM-Chute as well. To shut off the PAC error select:
Main Menu → Setup Mode → Application Setup → Pump Module. Turn the Pump Module off.

Chamber Width Setup – MWM Chute (continued)

1. To change the MWM-Chute width and select the grey area.

2. A scrolling menu will appear. Select the correct value to use and select Done.

MWM-Chute Offset – Distance from knotter to MWM Chute Sensor
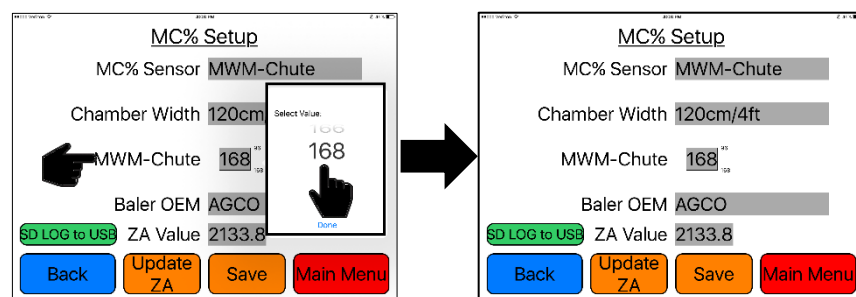
1. To change the MWM-Chute offset select the grey area.
    *Measure Distance from the center on knotter to the center of the MWM system.

2. A scrolling menu will appear. Select the correct value to use and select Done.

Selecting Moisture Sensor – MWM-PCC
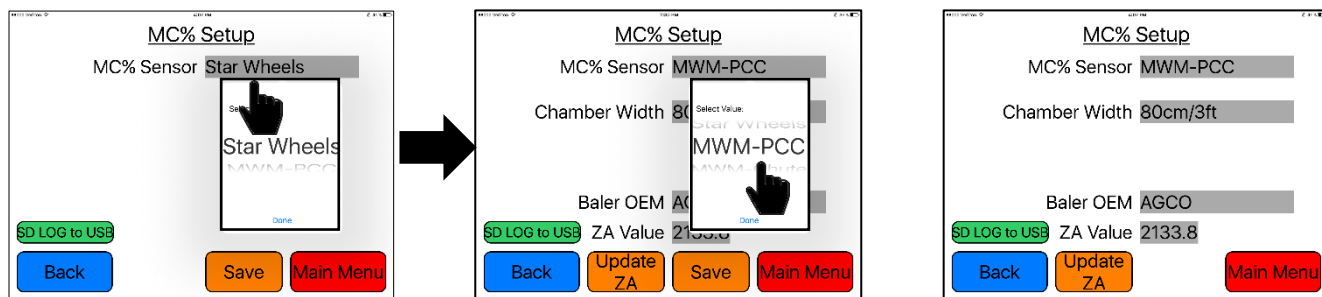
1. To change the moisture sensing system between the Star Wheels, MWM-PCC, MWM-Chute and other system select the grey area next to the Moisture Sensor (MC%).

2. A scrolling menu will appear. Select the desired moisture system to use and select Done.

Chamber Width Setup– MWM-PCC
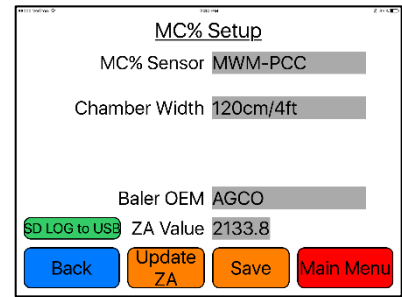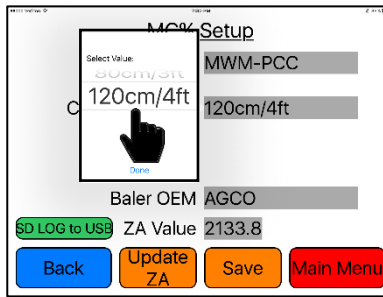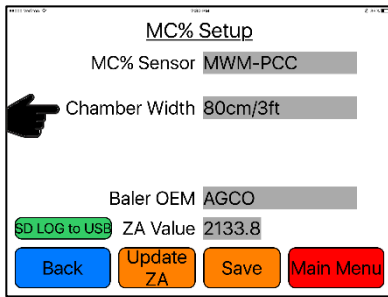
1. To change the Chamber Width, select the grey area.

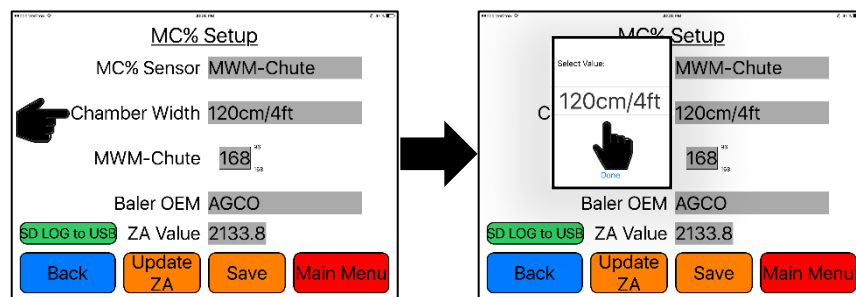2. A scrolling menu will appear. Select the correct width by scrolling between 80cm/3ft or 120cm/4ft.

3. After choosing the correct width select Done.

Selecting Baler OEM – MWM-PCC and MWM-Chute
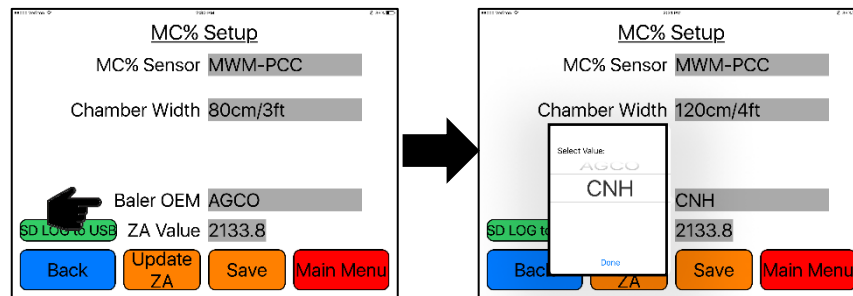
1. To change the Baler OEM, select the grey area.

2. A scrolling menu will appear. Select the correct Baler OEM by scrolling between AGCO, CNH, John Deere, Krone and Other.

3. After choosing the correct Baler OEM select Done.

4. Select SAVE to save all changes

SD LOG to USB
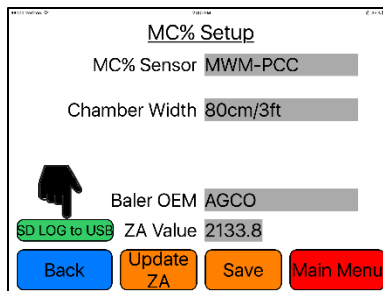
The SD LOG to USB function is used to transfer information recorded to the SD card on the applicators Dual Channel Processor (DCP) to a USB. The function is intended for troubleshooting purposes with Harvest Tec.

1. Insert a blank USB drive into the USB port on the DCP and select the SD LOG to USB button as shown above. When the SD LOG to USB button is selected the date will be transferred. The indicator light on the USB drive will flash while data is being transferred. The amount of time it takes to transfer the data is related to the number of bales on the DCP. The light will go out when complete.

ZA Value – MWM-PCC and MWM-Chute
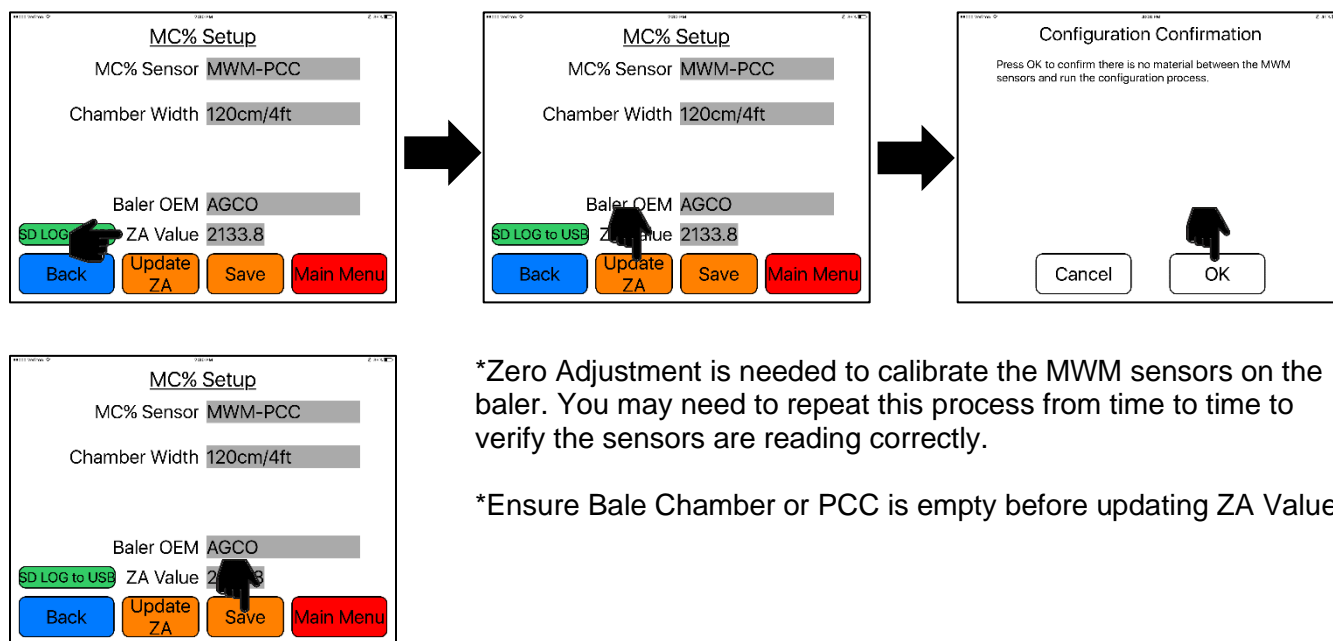
*Zero Adjustment is needed to calibrate the MWM sensors on the baler. You may need to repeat this process from time to time to verify the sensors are reading correctly.

Ensure Bale Chamber or PCC is empty before updating ZA Value

1. To set the ZA Value, select the grey area. This value is used to determine the alignment of the microwave moisture sensors. Use the chart below to determine if there are any alignment adjustments needed.

2. Follow the direction on the Configuration Confirmation page and select OK when ready to take reading.

ZA RANGE (Zero Adjustment) Same for Chute or PCC Setup	
AGCO	2200 - 3000
CNH	2200 - 3000
John Deere	2200 - 3000
Krone	2200 - 3000
Other	2200 - 3000

*This range is for both 3' and 4' (1M&1.2M) wide baler.

3. After the ZA reading has been taken, if it is within the ZA Value Range, select Save.

4. If the ZA Value is not within the recommended range. The microwave moisture sensors will need to be adjusted to have a more accurate alignment straight across from each other on the baler.

Operation Screens
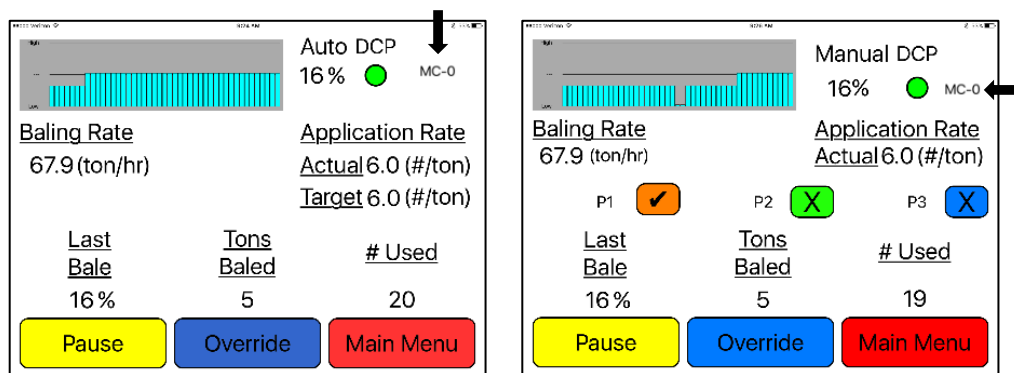
The sensor type selected is indicated in the upper right corner of the run screen (above) on both Automatic and Manual Mode. MC-0 indicates starwheels, MC-1 indicates MWM Pre-Compression Chamber, MC-2 indicates MWM Bale Chamber System, MWM-3 indicates other.

601BB - Wiring Diagram – Connecting to Moisture Only System

1. Locate the tractor power/communication harness (006-6650TM(E)).
2. At the back of the tractor run the power leads to the battery.
3. Connect the red power wire with the 50 amp fuse to the positive side (12 volt) of the battery.
   a. **The power harness must be connected to the battery!** The unit will draw more amps than convenience outlets can handle. Any modifications of the power harness will void systems warranty. IF MODIFICATIONS ARE REQUIRED CONTACT HARVEST TEC FIRST!
   b. **This unit will not function on positive ground tractors.**
   c. **If the unit loses power while operating it will not keep track of accumulated pounds of product used and bale records.**
4. Connect the black ground wire to frame of tractor or negative side of (12 volt) battery.
5. Connect the Bluetooth Receiver (030-6672B) to the Communication Harness (006-6650TM). Place in a safe location in the cab. Behind the seat for example.
6. Connect the orange Keyed Power wire (006-5650K) to a keyed power source.
7. Connect the end to the Communication Harness (006-6650TM(E)) to the Bluetooth Receiver.
8. Connect the orange keyed power wire (006-5650K) to a keyed power source on the tractor.
9. Connect the Pre-Compression Harness (006-6650MW) into the Pump Controller port on the DCP.
10. Connect Microwave Sensors (006-4641MTX & 006-4641MRX) to the Pre-Compression Harness.
11. Connect the Stuffer Sensor (006-7400) to the Pre-Compression Harness.

*Note: (E) indication is used for International Dealers

11

700BB - Wiring Diagram – Connecting to 696BB Preservative Applicator System

1. The Baler Power/Communication Harness (006-6650LS(E)) will attach to the open port of the Tractor Harness (006-6650TM(E)) 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. Attach the Baler Interface Harness (006-6650VA) in between the short whip cable hardwired to the DCP and the main Power/Communication Harness (006-6650LS). Make sure Active Terminator removed from the top of the baler processor is attached to Baler Interface Harness (006-6650VA).
3. Attach moisture and bale rate harness (006-7303HL(E)) and end of bale harness (006-7400) to the DCP.
4. Attach the Pump Control Harness (006-5650F3M(E)) between Pump Controller (006-5672) and the DCP.
5. Connect Keyed Power Extension harness (006-5650K) to a keyed power source on tractor.
6. Connect the Bluetooth Receiver (030-6672B) to the Communication Harness (006-6650TM).
7. Connect the Pre-Compression Harness (006-6650MW) into the Pump Controller port on the DCP.
8. Connect Microwave Sensors (006-4641MTX & 006-4641MRX) to the Pre-Compression Harness.
9. Connect the Stuffer Sensor (006-7400) to the Pre-Compression Harness.

*Note: (E) indication is used for International Dealers

12
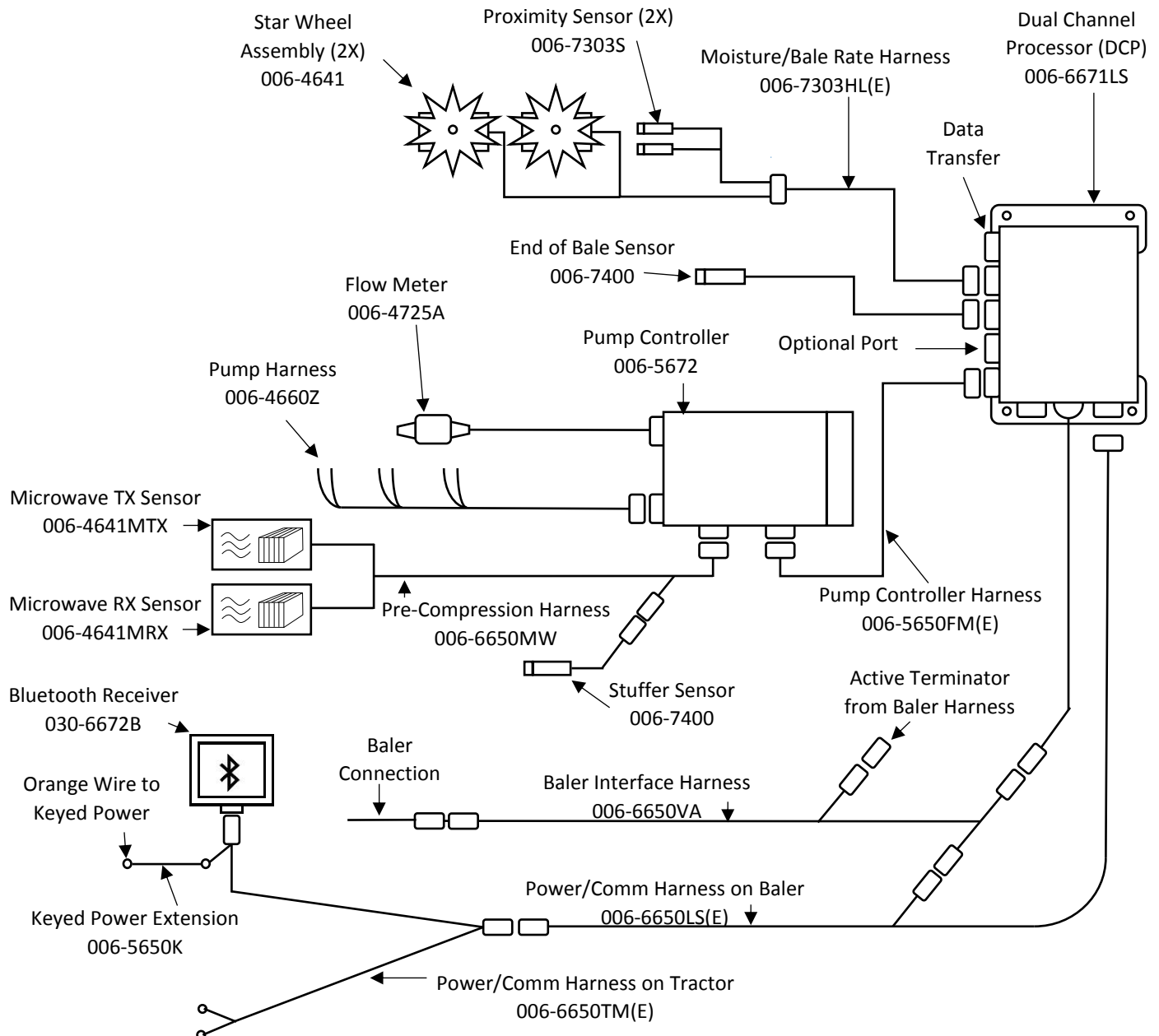
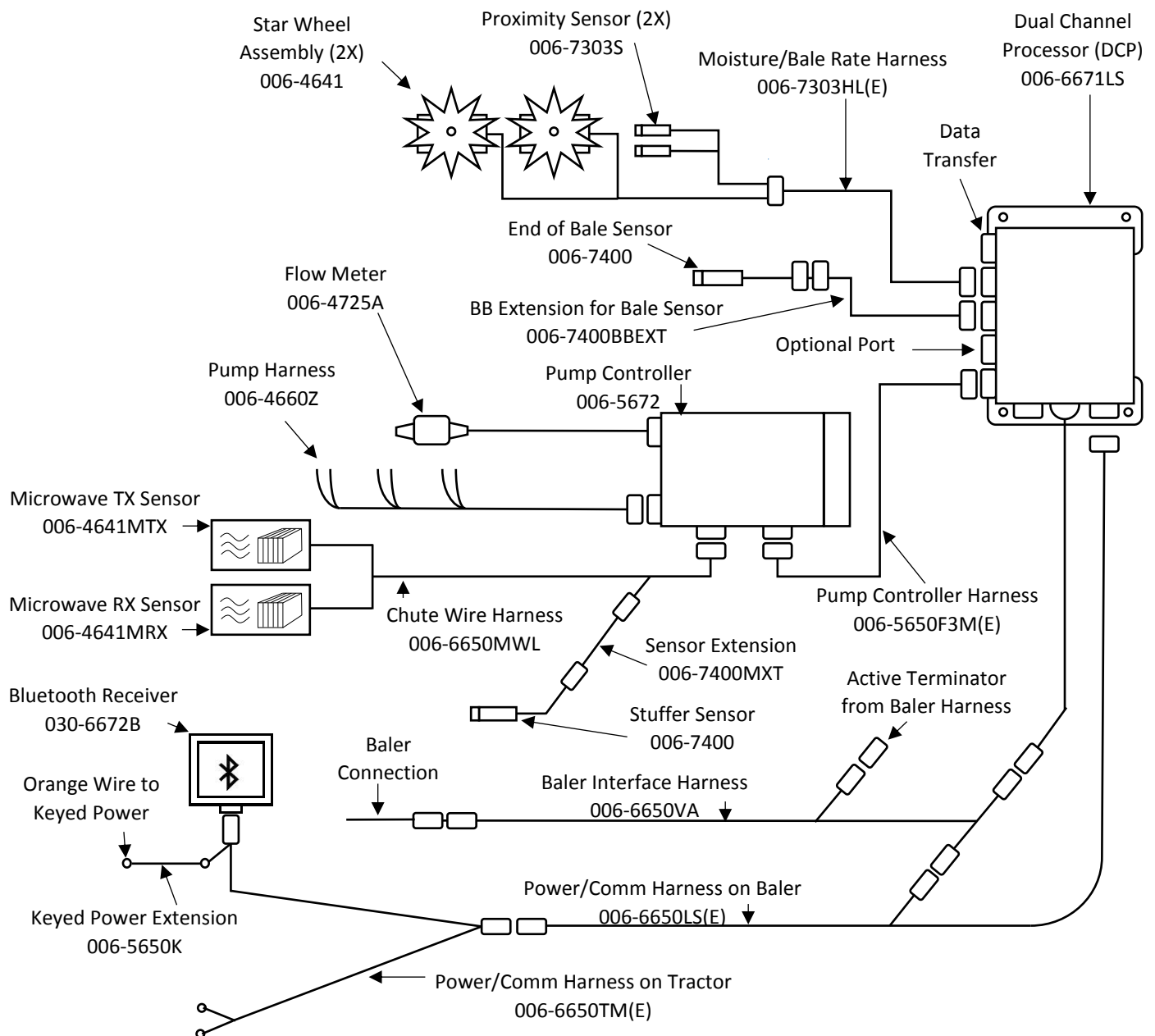## 701BB - Wiring Diagram – Connecting to 696BB Preservative Applicator System

1. The Baler Power/Communication Harness (006-6650LS(E)) will attach to the open port of the Tractor Harness (006-6650TM(E)) and run back to the Dual Channel Processor (006-6671LS). Connect the large plug of the Baler Power/Communication Harness (006-6650LS(E)) to the bottom (shorter side) of the DCP.
2. Attach the Baler Interface Harness (006-6650VA) in between the short whip cable hardwired to the DCP and the main Power/Communication Harness (006-6650LS(E)). Make sure Active Terminator removed from the top of the baler processor is attached to Baler Interface Harness (006-6650VA).
3. Attach moisture and bale rate harness (006-7303HL(E)), extension harness (006-7400BBEXT), and the end of bale harness (006-7400) to the DCP.
4. Attach the Pump Control Harness (006-5650F3M(E)) between Pump Controller (006-5672) and the DCP.
5. Connect Keyed Power Extension harness (006-5650K) to a keyed power source on tractor.
6. Connect the Bluetooth Receiver (030-6672B) to the Communication Harness (006-6650TM(E)).
7. Connect the Chute Wire Harness (006-6650MWL) into the Pump Controller port on the DCP.
8. Connect Microwave Sensors (006-4641MTX & 006-4641MRX) to the Chute Wire Harness.
9. Connect the Stuffer Sensor (006-7400), and extension (006-7400MXT to the Pre-Compression Harness.

Star Wheel Assembly (2X) 006-4641

Proximity Sensor (2X) 006-7303S

Moisture/Bale Rate Harness 006-7303HL(E)

Dual Channel Processor (DCP) 006-6671LS

Data Transfer

End of Bale Sensor 006-7400

Flow Meter 006-4725A

BB Extension for Bale Sensor 006-7400BBEXT

Optional Port

Pump Harness 006-4660Z

Pump Controller 006-5672

Microwave TX Sensor 006-4641MTX

Microwave RX Sensor 006-4641MRX

Chute Wire Harness 006-6650MWL

Sensor Extension 006-7400MXT

Pump Controller Harness 006-5650F3M(E)

Active Terminator from Baler Harness

Bluetooth Receiver 030-6672B

Orange Wire to Keyed Power

Baler Connection

Stuffer Sensor 006-7400

Baler Interface Harness 006-6650VA

Keyed Power Extension 006-5650K

Power/Comm Harness on Baler 006-6650LS(E)

Power/Comm Harness on Tractor 006-6650TM(E)

*Note: (E) indication is used for International Dealers

13

601A - Wiring Diagram – Connecting to Moisture Only System

1. Locate the tractor power/communication harness (006-6650TM(E)).
2. At the back of the tractor run the power leads to the battery.
3. Connect the red power wire with the 50 amp fuse to the positive side (12 volt) of the battery.
   a. **The power harness must be connected to the battery!** The unit will draw more amps than convenience outlets can handle. Any modifications of the power harness will void systems warranty. IF MODIFICATIONS ARE REQUIRED CONTACT HARVEST TEC FIRST!
   b. **This unit will not function on positive ground tractors.**
   c. **If the unit loses power while operating it will not keep track of accumulated pounds of product used and bale records.**
4. Connect the black ground wire to frame of tractor or negative side of (12 volt) battery.
5. Connect the Bluetooth Receiver (030-6672B) to the Communication Harness (006-6650TM). Place in a safe location in the cab. Behind the seat for example.
6. Connect the orange Keyed Power wire (006-5650K) to a keyed power source.
7. Connect the end to the Communication Harness (006-6650TM(E)) to the Bluetooth Receiver.
8. Connect the orange keyed power wire (006-5650K) to a keyed power source on the tractor.
9. Connect the Pre-Compression Harness (006-6650MW) into the Pump Controller port on the DCP.
10. Connect Microwave Sensors (006-4641MTX & 006-4641MRX) to the Pre-Compression Harness.
11. Connect the Stuffer Sensor (006-7400) to the Pre-Compression Harness.

AGCO 2100 Series Balers Pre 2012 need the AGCO Integration Harness (006-6650VAX)

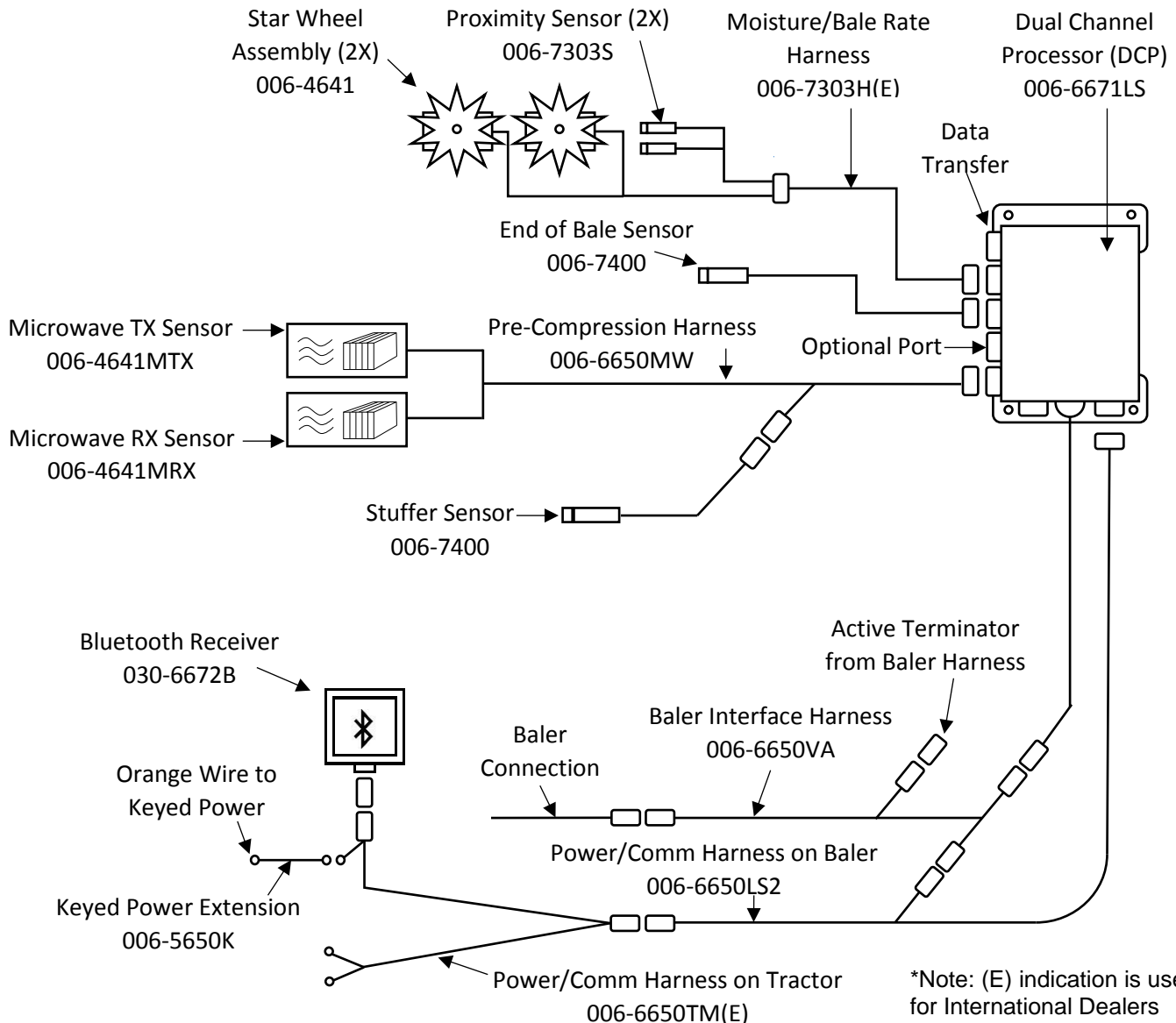## 700MWM - Wiring Diagram – Connecting to 696A Preservative Applicator System

1. The Baler Power/Communication Harness (006-6650LS2(E)) will attach to the open port of the Tractor Harness (006-6650TM(E)) and run back to the Dual Channel Processor (006-6671LS). Connect the large plug of the Baler Power/Communication Harness (006-6650LS(E)) to the bottom (shorter side) of the DCP.
2. Attach the Baler Interface Harness (006-6650VA) in between the short whip cable hardwired to the DCP and the main Power/Communication Harness (006-6650LS2(E)). Make sure Active Terminator removed from the top of the baler processor is attached to Baler Interface Harness (006-6650VA).
3. Attach moisture and bale rate harness (006-7303H) and the end of bale harness (006-7400) to the DCP.
4. Attach the Pump Control Harness (006-5650F3M(E)) between Pump Controller (006-5672) and the DCP.
5. Connect Keyed Power Extension harness (006-5650K) to a keyed power source on tractor.
6. Connect the Bluetooth Receiver (030-6672B) to the Communication Harness (006-6650TM).
7. Connect the Pre-Compression Harness (006-6650MW) into the Pump Controller port on the DCP.
8. Connect Microwave Sensors (006-4641MTX & 006-4641MRX) to the Pre-Compression Harness.
9. Connect the Stuffer Sensor (006-7400) to the Pre-Compression Harness.

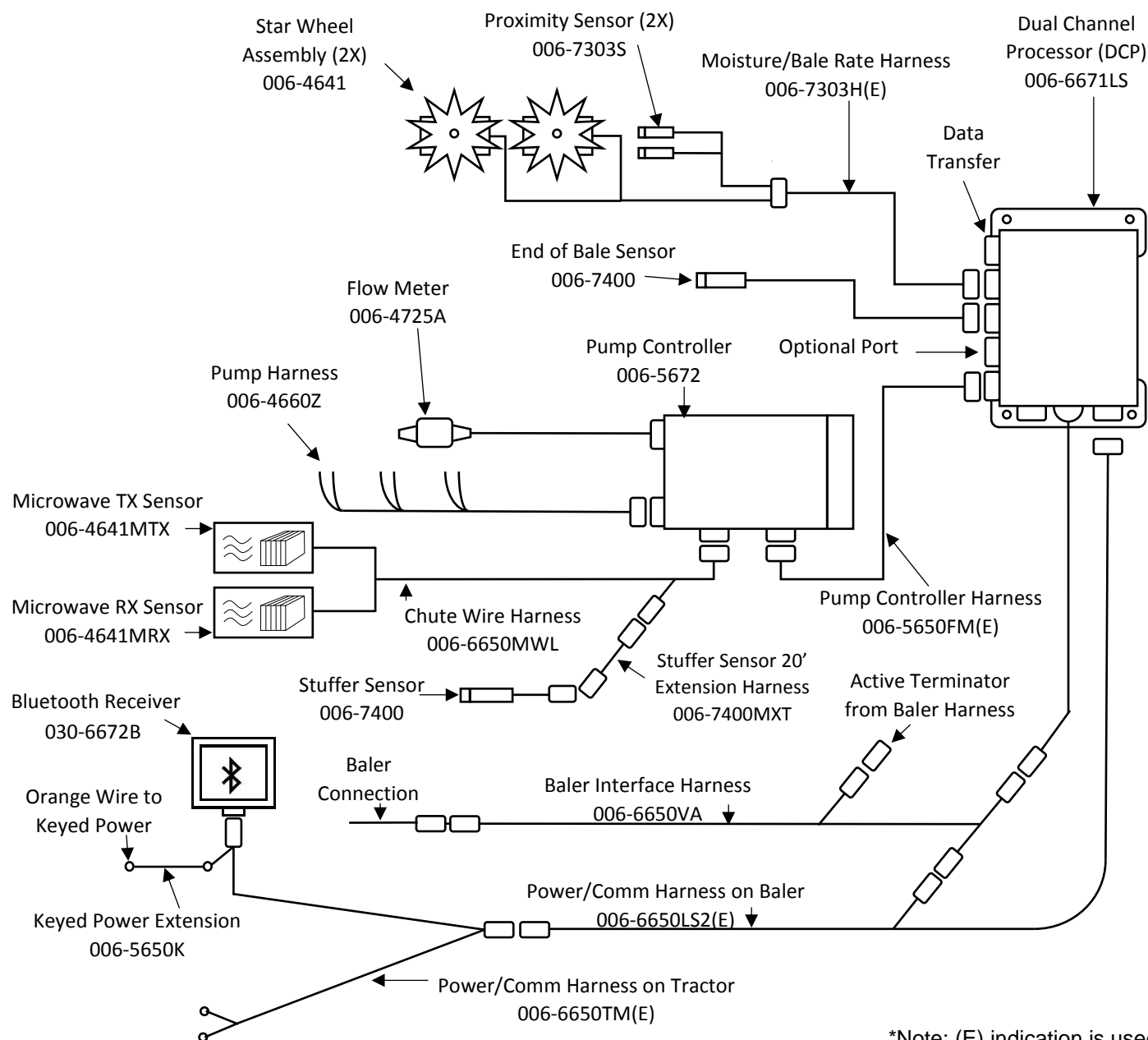*Note: (E) indication is used for International Dealers

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4. Attach the Pump Control Harness (006-5650F3M(E)) between Pump Controller (006-5672) and the DCP.
5. Connect Keyed Power Extension harness (006-5650K) to a keyed power source on tractor.
6. Connect the Bluetooth Receiver (030-6672B) to the Communication Harness (006-6650TM).
7. Connect the Chute Wire Harness (006-6650MWL) into the Pump Controller port on the DCP.
8. Connect Microwave Sensors (006-4641MTX & 006-4641MRX) to the Chute Wire Harness.
9. Connect Stuffer Sensor (006-7400) and 20' sensor extension harness (006-7400MXT) to the Chute Harness.

*Note: (E) indication is used for International Dealers

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Common Questions

1. **Can microwave sensors function with 500 series PIP?**
   No, microwave sensors are only compatible w/ 600 Series controls w/ software version dcp46227 or later.

2. **Can microwave sensors function through a Harvest Tec Touch Screen Display?**
   No, microwave sensors require an ISOBUS Interface (VT) or iPad system to set the microwave settings.

3. **What terminal is required to operate microwave sensor?**
   Microwave sensors are compatible with VT & iPads.

4. **What moisture range will sensors detect?**
   Pre-Compression Chamber microwave sensors have a moisture range of 6-60% moisture. The Bale Chute chamber sensors have a range of 6-40%.

5. **How do I know if I'm displaying microwave or star wheel moisture?**
   The sensor type selected is indicated in the upper right corner of the run screen (right). MC-0 indicates starwheels, MC-1 indicates MWM Pre-Compression Chamber, MC-2 indicates MWM Bale Chamber System, MWM-3 indicates other.
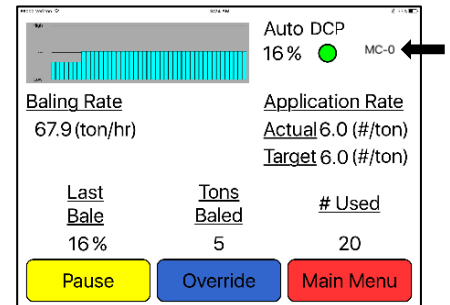
6. **What crops are the microwave sensors designed for?**
   The Microwave sensors are designed and calibrated for Alfalfa.

7. **Is there a calibration to the microwave sensors for different crops?**
   No, there is no adjustments needed.

8. **Do the sensors emit harmful waves?**
   No

9. **How often should a Zero Adjust (ZA) be performed?**
   A zero adjust should be performed on initial installation. It is also recommended during a zero adjust calibration at the beginning of each season.

10. **When reading moisture with microwave sensors why can I <u>not</u> select Automatic mode?**
    MWM Pre-Compression sensors can be used in both Auto and Manual mode.
    MWM Bale Chute sensors can only be used in Manual Mode due to the lag time between the application tops and the sensors.

11. **Where does the green terminating resistor plug in to microwave sensors?**
    The green resistor (006-5650Z) is not used. Store the resistor for potential updates and changes you may make to the system in the future.

12. **Where do I position 840 moisture dye marker spray tip when operating microwave sensors when using a MWM Chute system and in a MWM Pre-Compression system?**
    Dye marking tips should be located behind (toward rear end of chute) MWM Chute sensors, with the tips angled toward the rear at a 45 degree angle. Alternative mounting would locate the dye marking tips above the bale w/ the brackets mounted off the top cross beam.
    When using a Pre-Compression system mount the tips as close to the front of the bale chamber as possible, either on the side if there is clearance or on the top of the bale.

13. **What do the lights on the 030-6672B indicate?**
    Red Light – The Bluetooth receiver has power. *Green Light* – When the proper active connection is selected in the Hay App menu, the green light will indicate connection with the iPad.

Troubleshooting

| PROBLEM	POSSIBLE CAUSE	SOLUTION
Moisture reading errors (high or low)	1. Wire disconnected or bad connection between star wheels and DCP	1. Reconnect wire.
	2. Low power supply to DCP	2. Check voltage at box. (Min of 12 volts required.) See Diagnostics section of manual.
	3. Dry hay lower than 8% moisture or wet hay over 75%.	3. Pre-Compression System reads 6-60% moisture. The Bale Chute system read 6-40% moisture.
	4. Ground contact with one or both star wheels and baler mounted processor.	4. Reconnect.
	5. Short in wire between star wheels and DCP.	5. Replace wire.
	6. Check hay with hand tester to verify.	6. Contact Harvest Tec if conditions persist.
Moisture readings erratic.	1. Test bales with hand tester to verify that DCP has more variation than hand tester.	
	2. Check all wiring connections for corrosion or poor contact.	2. Apply dielectric grease to all connections.
	3. Check power supply at tractor. Voltage should be constant between 12 and 14 volts.	3. Install voltage surge protection on tractors alternator.
Terminal reads under or over power.	1. Verify with multi-meter actual voltage. Voltage range should be between 12-14 volts.	1. Clean connections and make sure applicator is hooked to battery. See Diagnostics section of manual.
Bale rate displays zero.	1. Bale rate sensors are reversed. 2. Short in cable. 3. Damaged sensor. 4. Sensor too far from starwheel.	1. Switch the sensors next to the star wheel. 2. Replace cable. 3. Replace sensor. 4. Adjust gap between prox sensor and star wheel so it is 1/8-1/4" away.
MWM moisture reads low all the time	1.Stuffer sensor out of adjustment	1. Verify stuffer sensor is not damage and is sensing the stuffer moving each time
Bluetooth Receiver lights will not illuminate	1. Bluetooth receiver not connected 2. Harness disconnected 3. Low power	1. Check connections and voltage. Minimum 12.5V needed.
	Red Light – The Bluetooth receiver has power *Green Light* – When the proper active connection is selected in the Hay App menu, the green light will indicate connection with the iPad.	

Pin Outs

Power/Comm Harness 006-6650TM at Hitch
Pin 1   Red   +12V Power to BLE
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 BLE
Pin 9   Black   Ground from DCP
Pin 10 Blue   Can1 Low
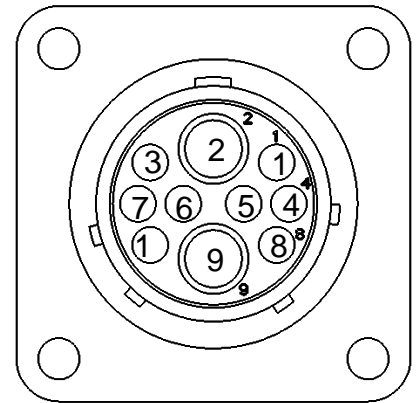
Power/Comm Harness 006-6650LS(E) or LS2(E) at Hitch
Pin 1   Red   +12V Power to BLE
Pin 2   Red   +12V Power to DCP
Pin 3   Orange   Keyed Power
Pin 4   Gray   Shield
Pin 5   Green   HT Can Low
Pin 6   Yellow   HT Can Hi
Pin 7   Orange   Can1 Hi
Pin 8   Black   Ground from BLE
Pin 9   Black   Ground from DCP
Pin 10 Blue   Can1 Low
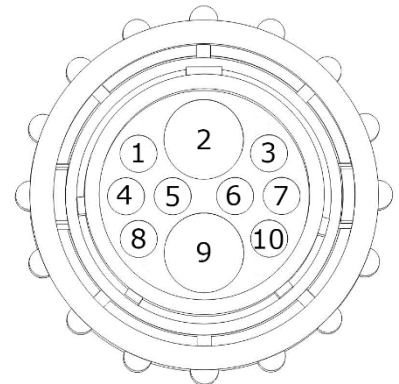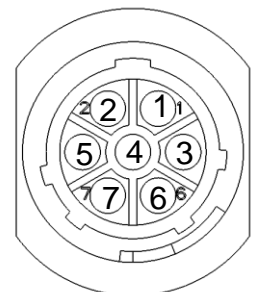
Bluetooth Receiver on Harness 006-6650TM(E)
Pin 1   Red   +12V Power from DCP
Pin 2   Black   Ground from BLE
Pin 3   Yellow   HT Can Low
Pin 4   Gray   Shield
Pin 5   Green   HT Can Hi
Pin 6   Orange   Can1 Hi
Pin 7   Blue   Can1 Low
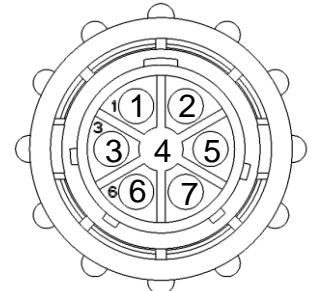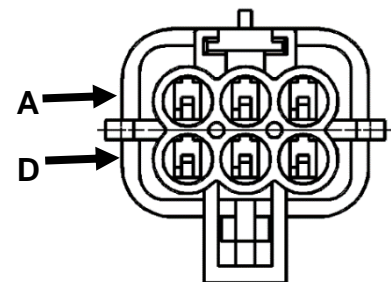
006-6650VA to DCP Whip
Pin 1   Red   Can Power
Pin 2   Black   Can Ground
Pin 3   Yellow   HT Can Hi
Pin 4   Gray   Shield
Pin 5   Green   HT Can Low
Pin 6   Orange   Can1 Hi
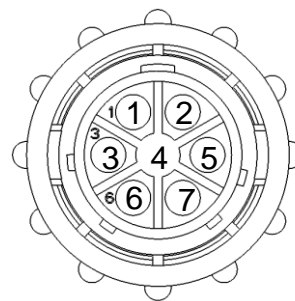Pin 7   Blue   Can1 Low

006-6650VA Harness to Baler Plug
Pin A   N/A
Pin B   Red   TBC Power
Pin C   N/A
Pin D   Gray   TBC Ground
Pin E   Orange   Can1 Hi
Pin F   Blue   Can1 Low

Pin Outs (continued)
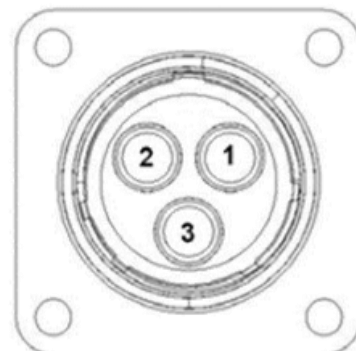
006-6650VA to 006-6650LS(E) or LS2(E)
Pin 1 Red   Can Power
Pin 2 Black   Can Ground
Pin 3 Yellow   HT Can Hi
Pin 4 Gray   Shield
Pin 5 Green   HT Can Low
Pin 6 N/A
Pin 7 N/A

Main Power Connector on Dual Channel Processor (DCP)
Pin 1 Red   +12V Power from tractor
Pin 2 Black   Ground from tractor
Pin 3 Orange   Keyed power
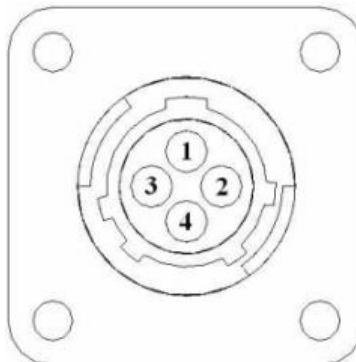

Star Wheel and Bale Rate Sensor Connector on DCP
Pin 1 Blue   +12V Power
Pin 2 Orange   Ground
Pin 3 Black   Signal for sensor 1
Pin 4 White   Signal for sensor 2
Pin 5 N/A
Pin 6 N/A
Pin 7 N/A
Pin 8 Violet   Star wheel input 1
Pin 9 Brown   Star wheel input 2
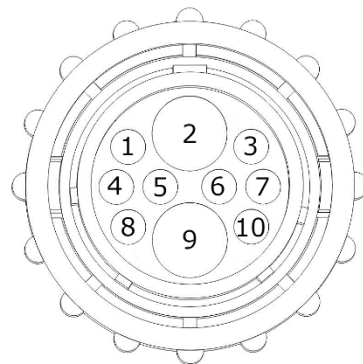

End of Bale Sensor on DCP
Pin 1 Brown   Sensor Power
Pin 2 Blue   Sensor Ground
Pin 3 N/A
Pin 4 Black   Signal from Sensor

Pin Outs (continued)
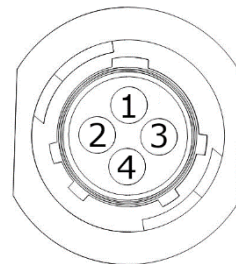
Microwave Moisture Harness 006-6650MW or 006-6650MWL
Pin 1   Red   Power
Pin 2   N/A   Not Used
Pin 3   N/A   Not Used
Pin 4   Yellow   Can H In
Pin 5   Green   Can L In
Pin 6   Orange   Can H Out
Pin 7   Blue   Can L Out
Pin 8   Black   Ground
Pin 9   N/A   Not Used
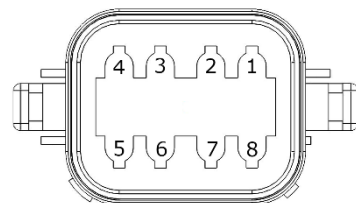Pin 10 N/A   Not Used

Microwave Moisture Harness 006-6650MW or 006-6650MWL
Pin 1   Red   Power
Pin 2   Black   Ground
Pin 3   N/A   Not Used
Pin 4   Brown   Signal

Microwave Moisture Harness 006-6650MW or 006-6650MWL (RX)
Pin 1   Black   Ground
Pin 2   Red   Power
Pin 3   Yellow   Can H
Pin 4   Green   Can L
Pin 5   Plugged
Pin 6   Plugged
Pin 7   Brown   Signal
Pin 8   Black   Ground
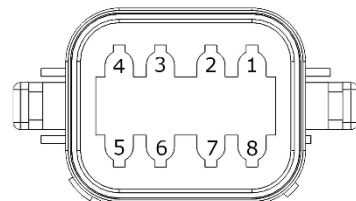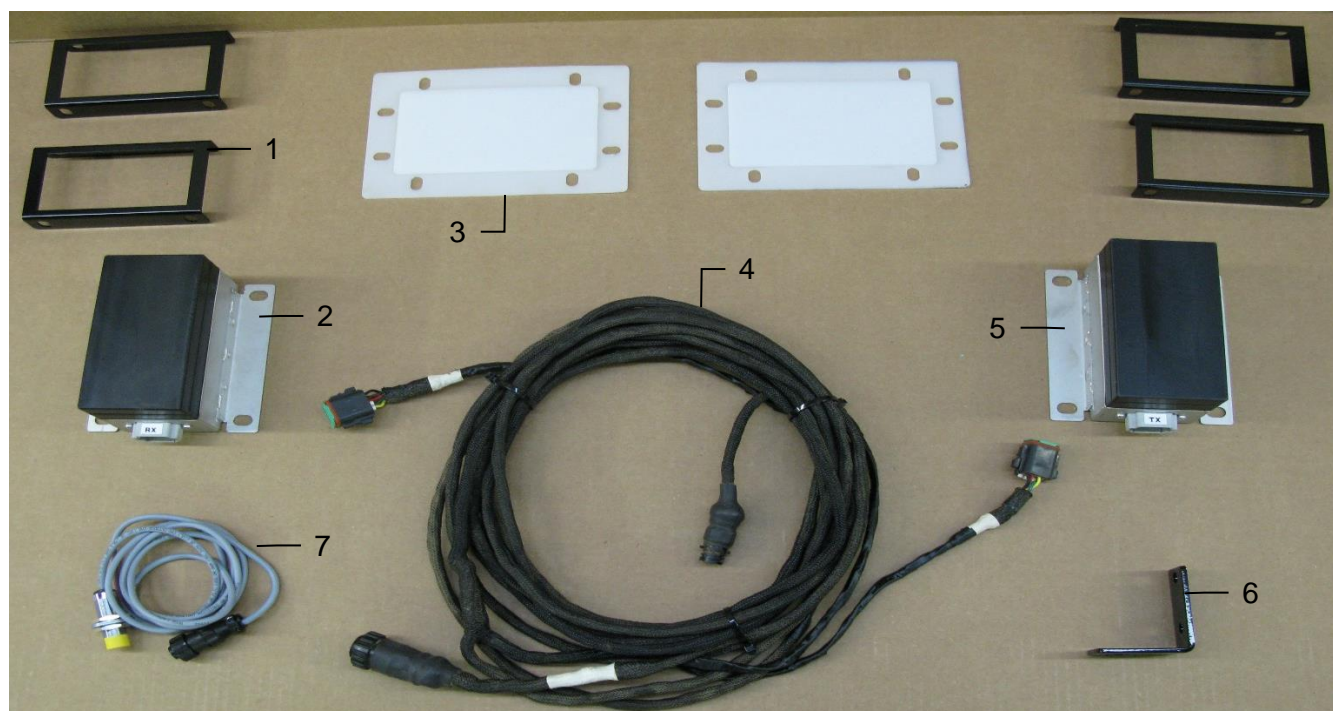
Microwave Moisture Chamber Harness 006-6650MW or 006-6650MWL (TX)
Pin 1   Black   Ground
Pin 2   Red   Power
Pin 3   Yellow   Can H
Pin 4   Green   Can L
Pin 5   Plugged
Pin 6   Plugged
Pin 7   Plugged
Pin 8   Plugged

Microwave Moisture Pre-Compression System - 601& 700MWM

Ref	Description	Part #	Qty
1	MWM Mounting Bracket	001-2600	4
2	Microwave TX Sensor	006-4641MTX	1
3	MWM Filter Plate	006-2600FP	2
4	MWM Pre-Compression Harness	006-6650MW	1
5	Microwave RX Sensor	006-4641MRX	1
6	End of Bale Bracket (Stuffer Bracket)	001-4648SS	1
7	End of Bale Sensor (Stuffer Sensor)	006-7400	1

Complete Assembly   030-0700MWM

Microwave Moisture Bale Chute System – 701MWM
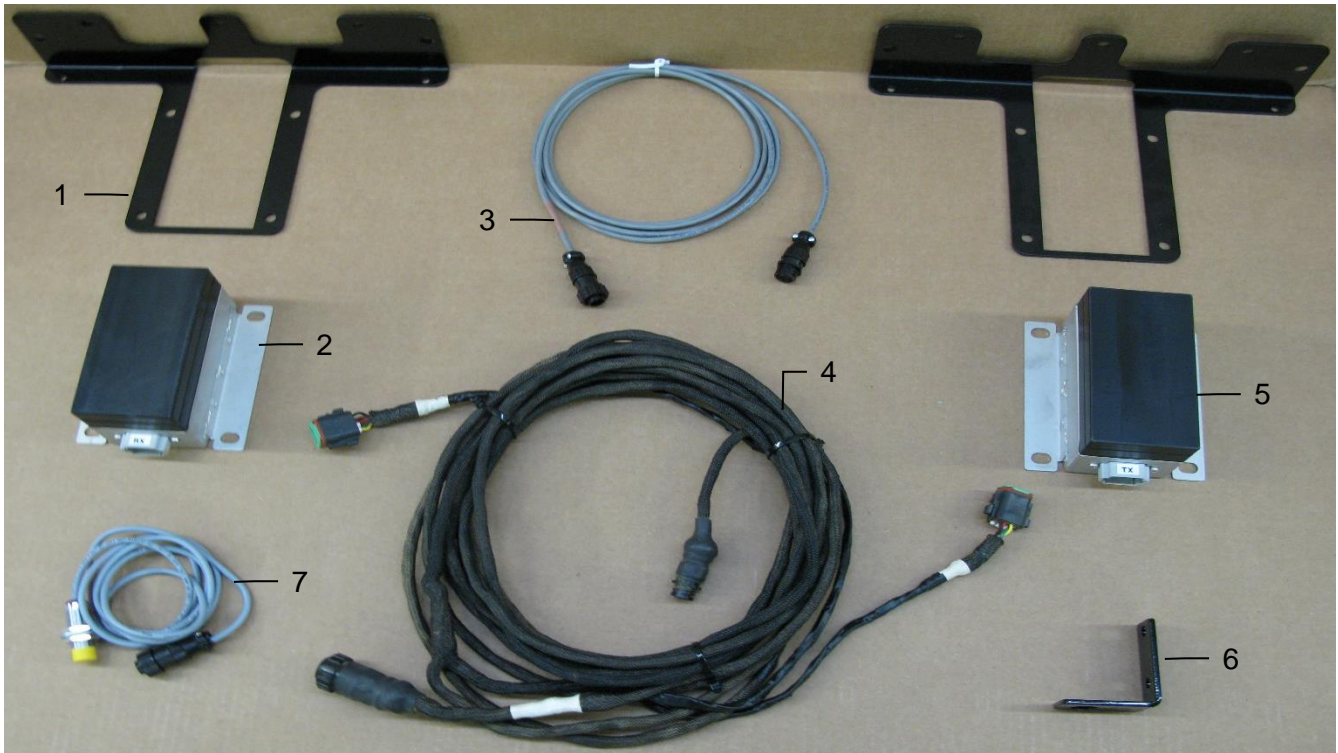
Ref	Description	Part #	Qty
1	MWM Rear Mounting Bracket	001-2601	2
2	Microwave TX Sensor	006-4641MTX	1
3	End of Bale Extension Harness (20')	006-7400MXT	1
4	MWM Pre-Compression Harness	006-6650MWL	1
5	Microwave RX Sensor	006-4641MRX	1
6	End of Bale Bracket (Stuffer Bracket)	001-4648SS	1
7	End of Bale Sensor (Stuffer Sensor)	006-7400	1
NP	Power / Comm Extension Harness (25')	006-6650FMX	1

Complete Assembly   030-0701MWM
(Ref 1-7)

Notes

Notes

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Harvest Tec LLC. Warranty and Liability Agreement

Harvest Tec, LLC. 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, LLC. 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, LLC.

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, LLC. 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, LLC. 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, LLC. 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, LLC. will not affect our ability to obtain materials or manufacture necessary replacement parts.

Harvest Tec, LLC. 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 6/22

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