Operation Manual

Model 602

Microwave Moisture Bale Chute 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

602-17-OPR-Imp&Metric
1/18

DECLARATION OF INCORPORATION

MANUFACTURER: Harvest Tec Inc.
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: 602-OPR-17-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

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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.**

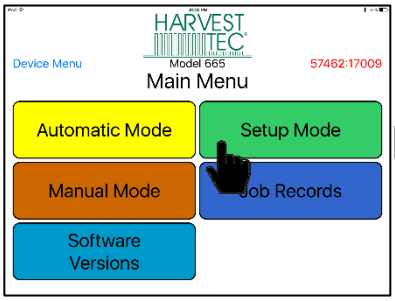
AGCO Balers

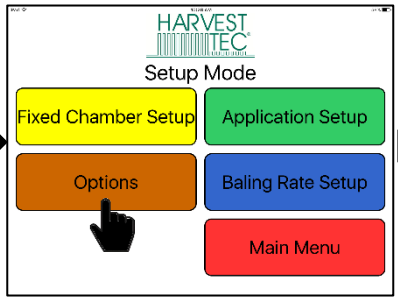
The Baler Processor must have Version 3.3 or higher.
C1000 must have version 3.0.1 or higher

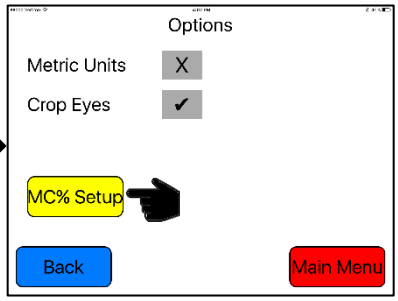
***Requirement to run iPad option are 3rd Generation iPad (2012) or newer with iOS8 or greater operating system, plus the Hay App.**

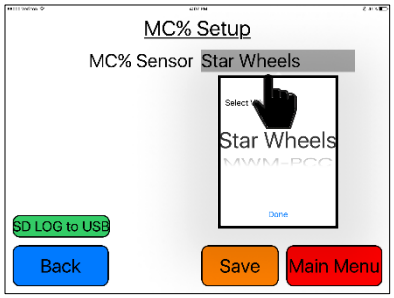
****When new software is update to version 57464 (or newer) the amount of time to update the system may take up to 3 hours depending on the amount of bale information saved on the DCP. This will clear the prior information, restores default settings and turns on the Pump Module. ****
Be sure to save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

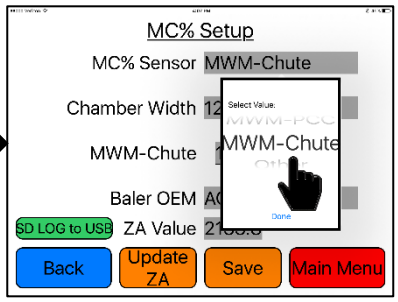
Moisture System Setup - MWM-Chute

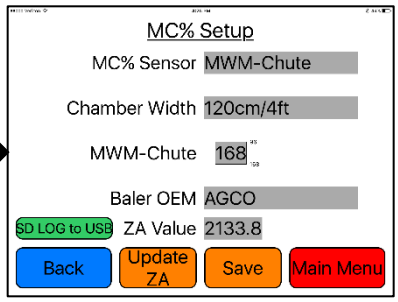




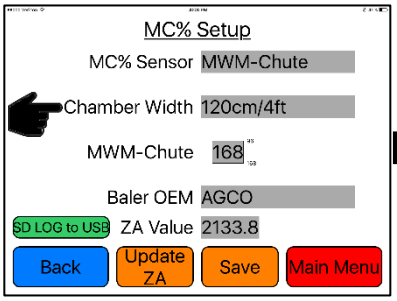




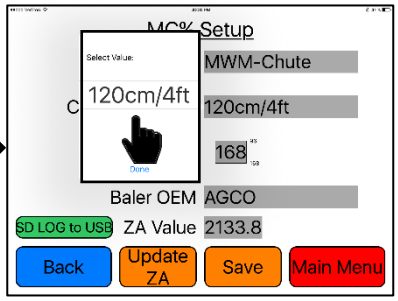


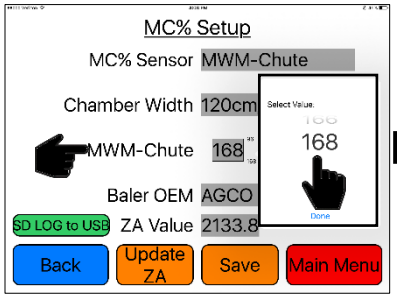


Select the microwave mosture sensor option

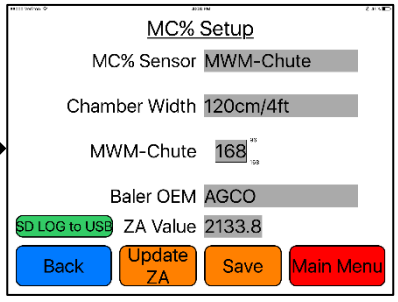


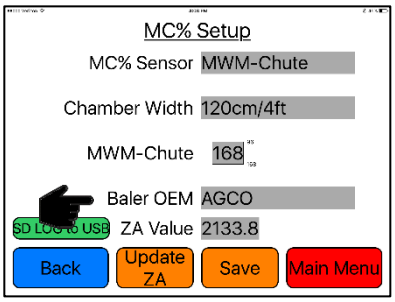
Select the correct chamber width



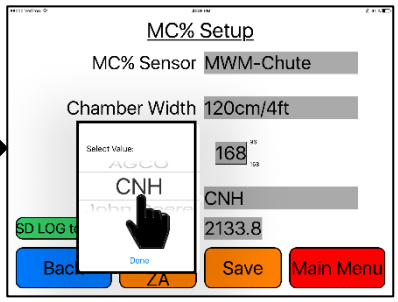


Select Chute Length



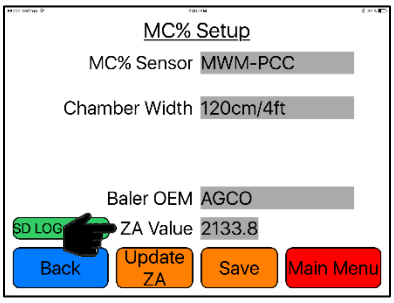


Change Baler OEM if Necessary

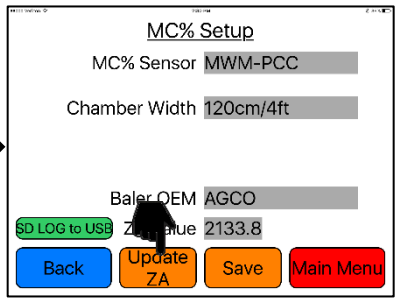


Choose between AGCO, CNH, John Deere, Krone

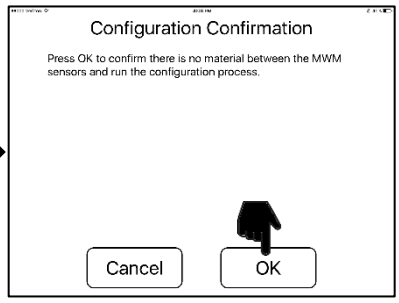
Moisture Sensor Setup (continued)



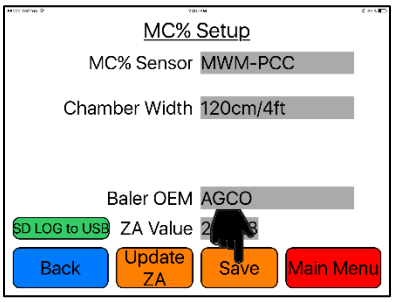
Ensure Bale Chamber or PCC is empty before updating ZA value (Zero Adjustment)



Select the Update ZA button



Follow direction on Configuration Confirmation and select OK



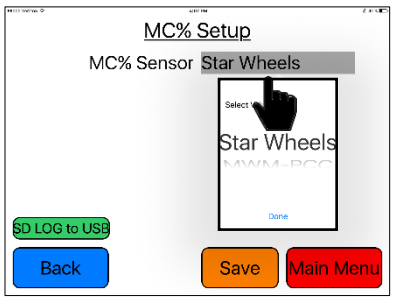
After reading is taken, select Save

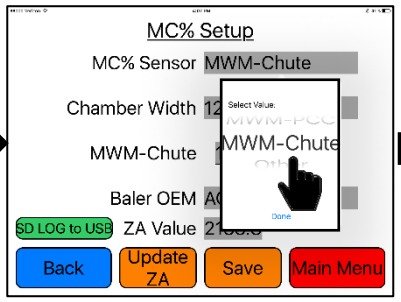
ZA RANGE (Zero Adjustment) Same for Chute or PCC Setup	
AGCO	**2200 - 3000**
CNH	**2200 - 3000**
John Deere	**2200 - 3000**
Krone	**2200 - 3000**
Other	**2200 - 3000**

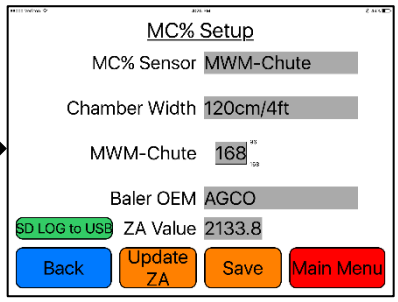
If the reading is within range no adjusts need to be made
Ensure Bale Chamber or PCC is empty before updating ZA Value
This range is for both 3' and 4' (1M & 1.2M) wide balers

Operation Instructions

Selecting Moisture Sensor – MWM Chute







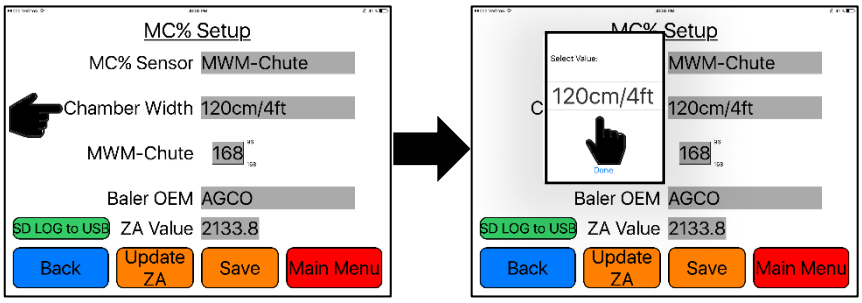
1. To change the moisture sensing system between the Star Wheels, MWM-PCC, MWM-Chute and other system select the grey area next to the Moisture Sensor (MC%).

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.

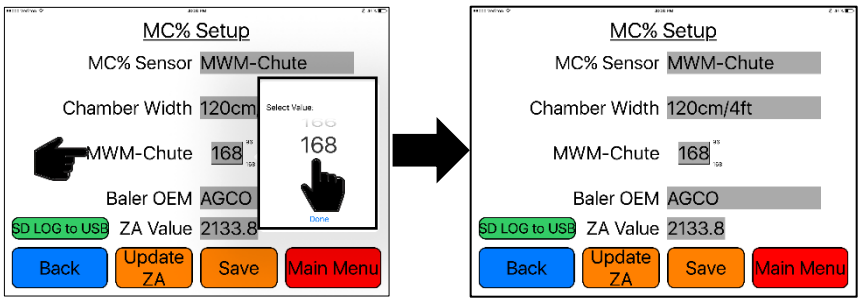
Chamber Width Setup – MWM Chute (continued)



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.

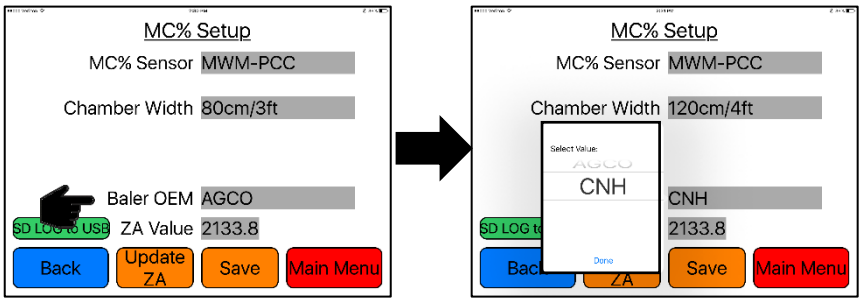
MWM-Chute Offset – Distance from knotter to MWM Chute Sensor



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 Baler OEM - MWM-Chute



1. To change the Baler OEM, select the grey area.

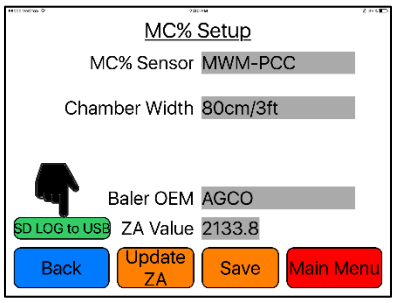
2. A scrolling menu will appear. Select the correct Baler OEM by scrolling between AGCO, CNH, John Deere, Krone and Other.

3. After choosing the correct Baler OEM select Done.

4. Select SAVE to save all changes

5. Select SAVE to save all changes

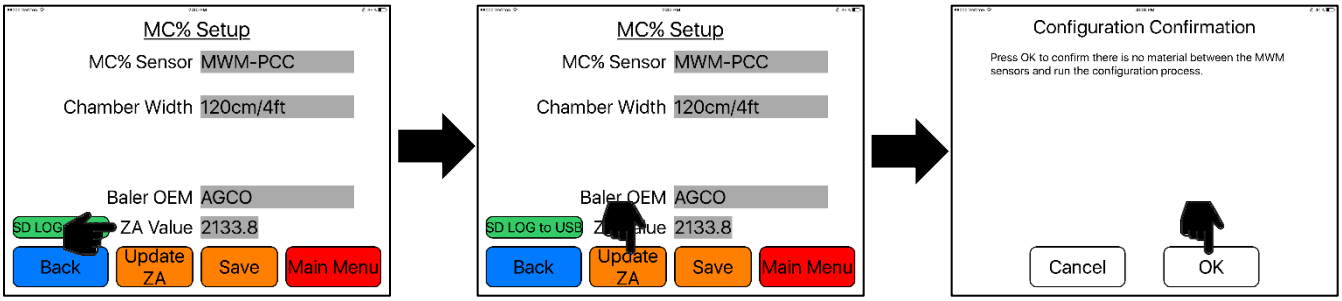
SD LOG to USB

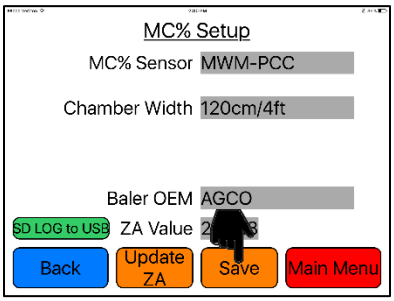


The SD LOG to USB function is used to transfer information recorded to the SD card on the applicators Dual Channel Processor (DCP) to a USB. The function is intended for troubleshooting purposes with Harvest Tec.

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.

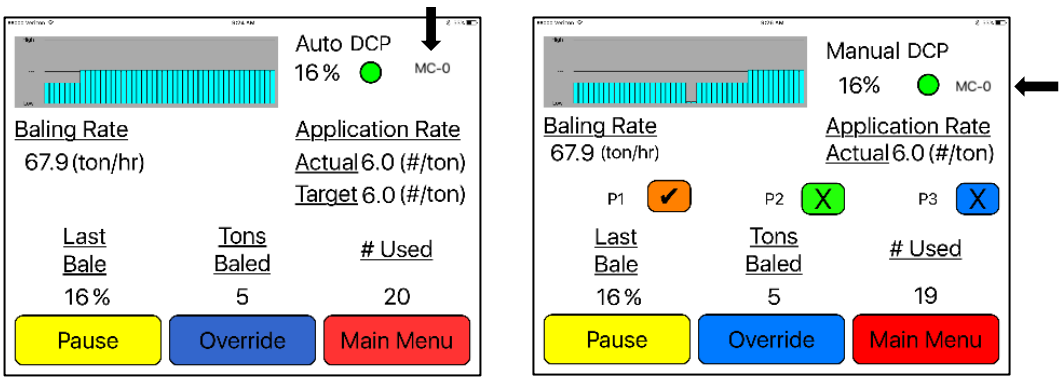
ZA RANGE (Zero Adjustment) **Same for Chute or PCC Setup**	
AGCO	**2200 - 3000**
CNH	**2200 - 3000**
John Deere	**2200 - 3000**
Krone	**2200 - 3000**
Other	**2200 - 3000**

*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.

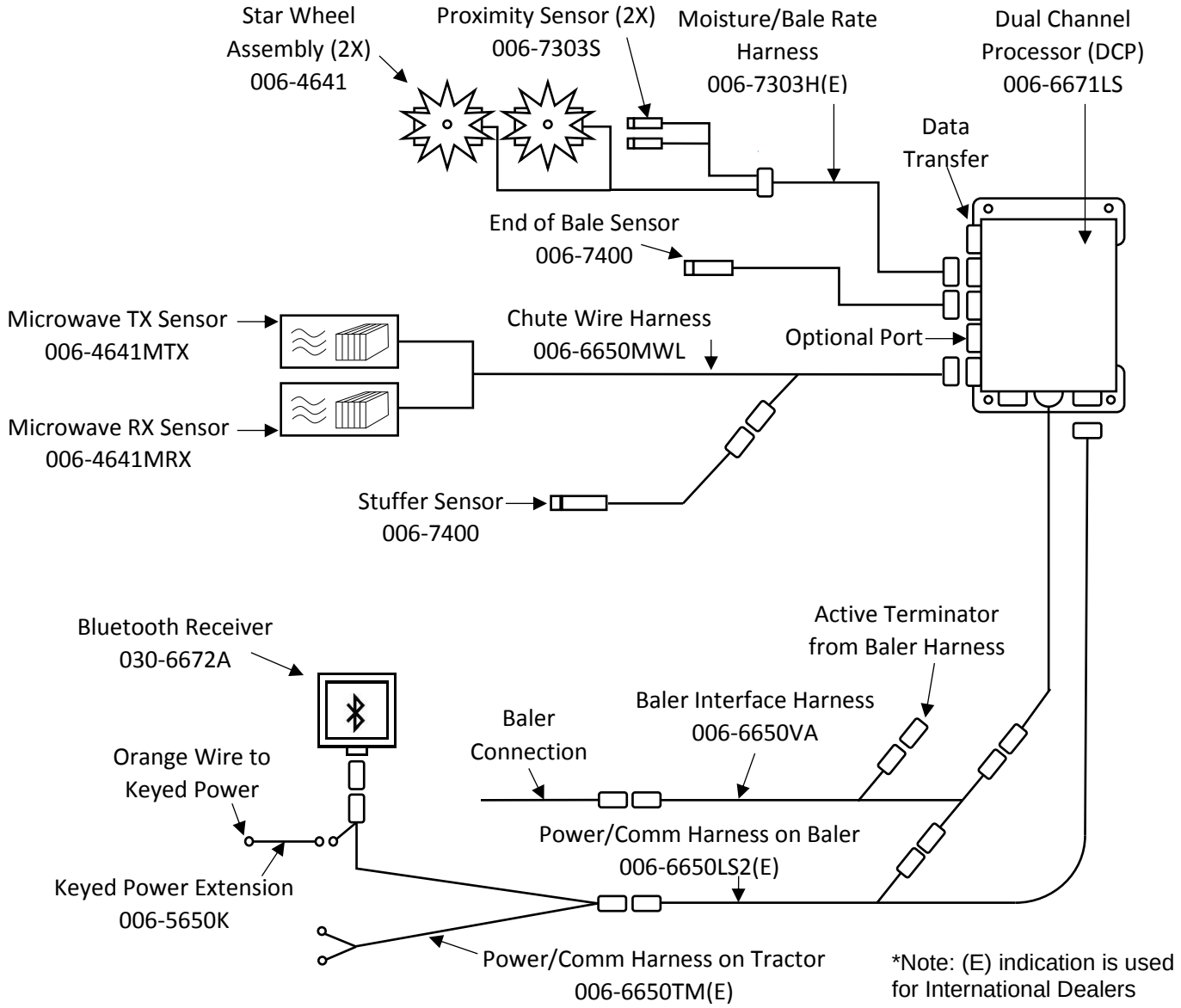
Operation Screens – Identify Moisture Settings



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.

602A - Wiring Diagram – AGCO 2100 & 2200 Series Balers

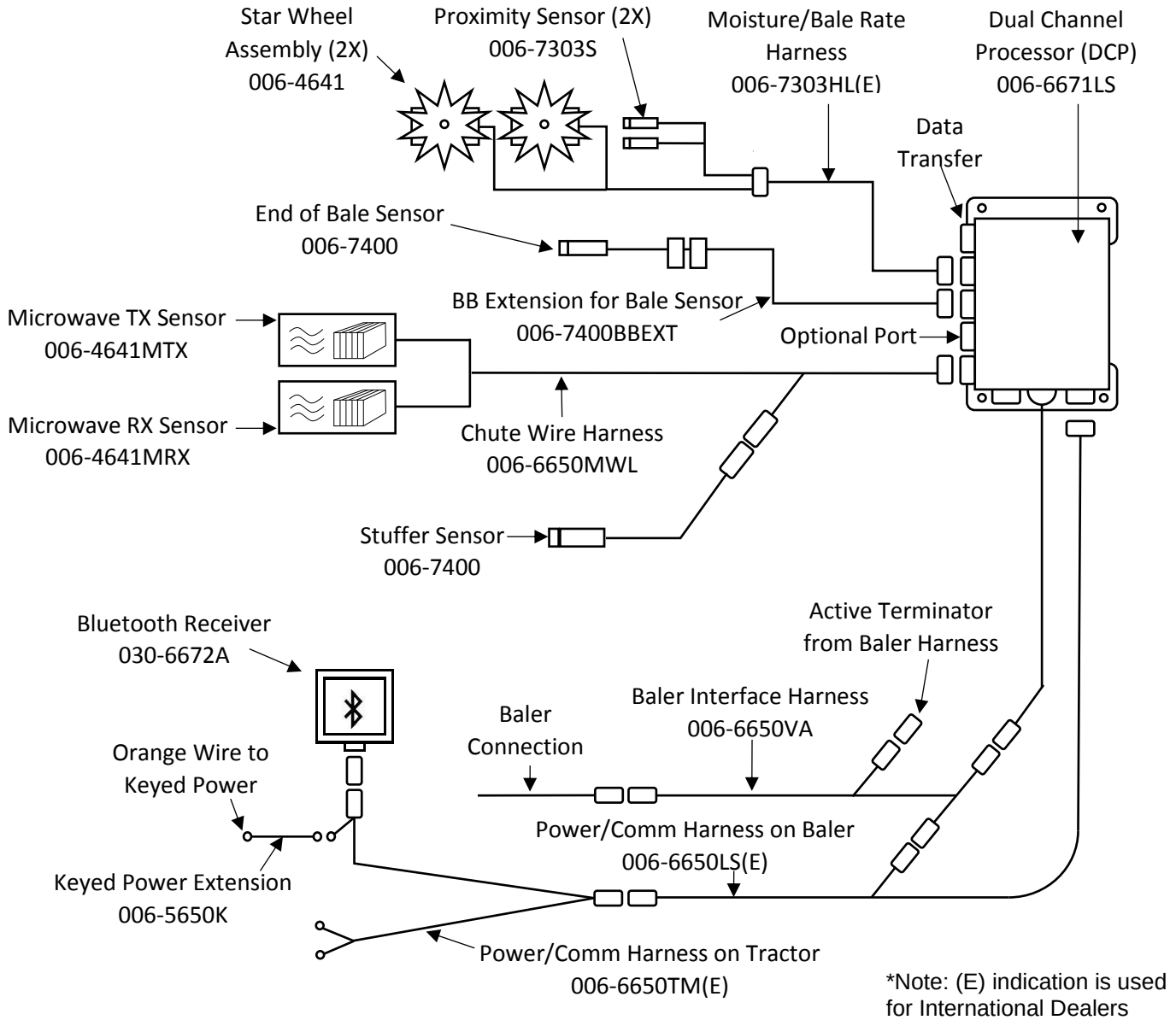
1. Locate the tractor power/communication harness (006-6650TM(E)).
2. At the back of the tractor run the power leads to the battery.
3. Connect the red power wire with the 50 amp fuse to the positive side (12 volt) of the battery.
   a. **The power harness must be connected to the battery!** The unit will draw more amps than convenience outlets can handle. Any modifications of the power harness will void systems warranty.
   b. **This unit will not function on positive ground tractors.**
4. Connect the black ground wire to frame of tractor or negative side of (12 volt) battery.
5. Connect the Bluetooth Receiver (030-6672A) to the Communication Harness (006-6650TM(E)). 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 Chute Wire Harness (006-6650MWL) into the Pump Controller port on the DCP.
10. Connect Microwave Sensors (006-4641MTX & 006-4641MRX) to the Chute Wire Harness.
11. Connect the Stuffer Sensor (006-7400) to the Chute Wire Harness.
12. When running a steamer, connect the Power / Comm extension harness (006-6650FMX) to the baler mounted Power / Comm Harness (006-6650LS2(E)) an additional 25' length from the tractor to the baler.



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

602BB – Wiring Diagram – CNH LB & BB Balers

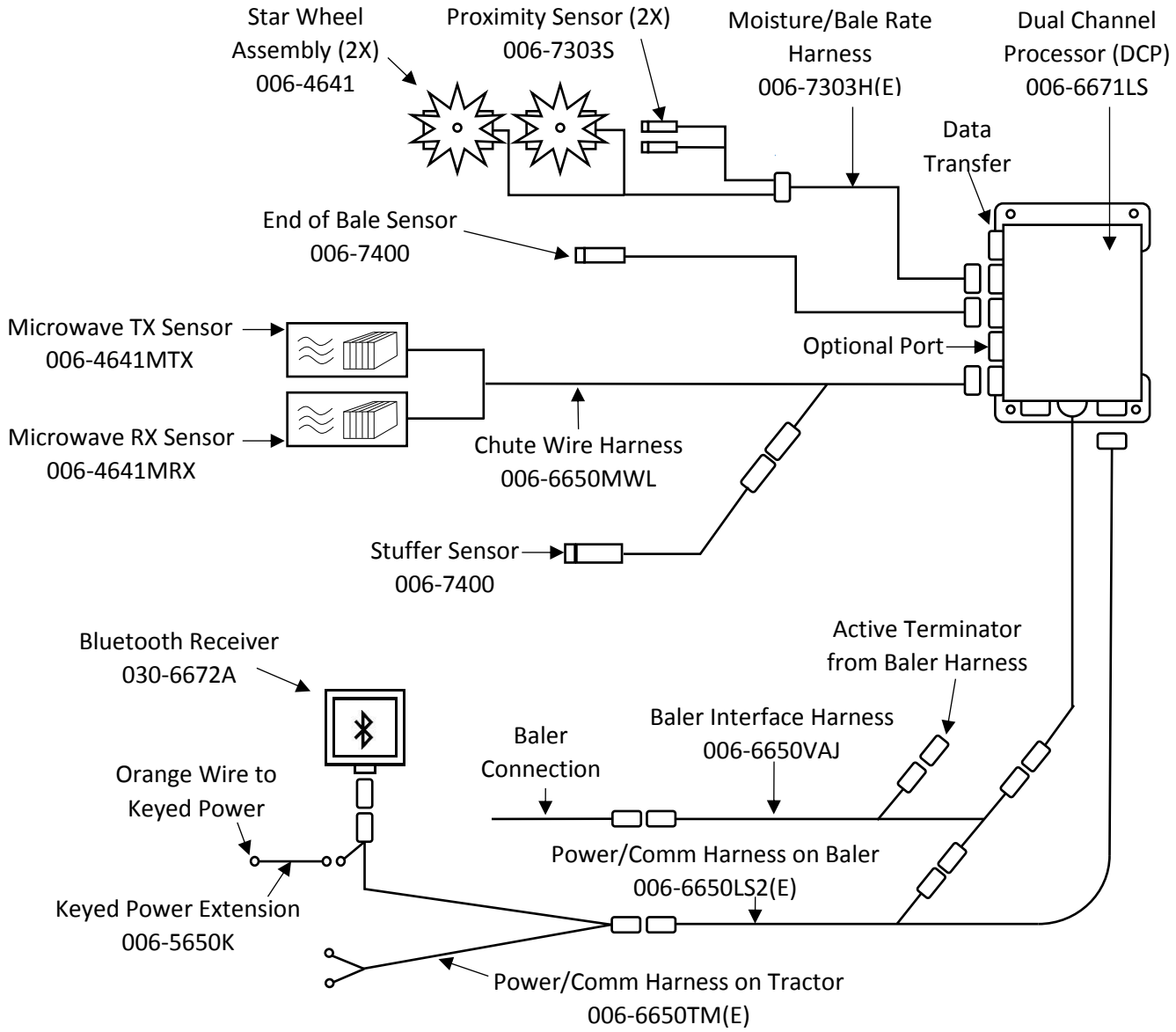
1. Locate the tractor power/communication harness (006-6650TM(E)).
2. At the back of the tractor run the power leads to the battery.
3. Connect the red power wire with the 50 amp fuse to the positive side (12 volt) of the battery.
   a. **The power harness must be connected to the battery!** The unit will draw more amps than convenience outlets can handle. Any modifications of the power harness will void systems warranty.
   b. **This unit will not function on positive ground tractors.**
4. Connect the black ground wire to frame of tractor or negative side of (12 volt) battery.
5. Connect the Bluetooth Receiver (030-6672A) to the Communication Harness (006-6650TM(E)). 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 Chute Wire Harness (006-6650MWL) into the Pump Controller port on the DCP.
10. Connect Microwave Sensors (006-4641MTX & 006-4641MRX) to the Chute Wire Harness.
11. Connect the Stuffer Sensor (006-7400) to the Chute Wire Harness.
12. When running a steamer, connect the Power / Comm extension harness (006-6650FMX) to the baler mounted Power / Comm Harness (006-6650LS(E)) for an additional 25' length from the tractor to the baler.



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

602J Wiring Diagram – John Deere Baler

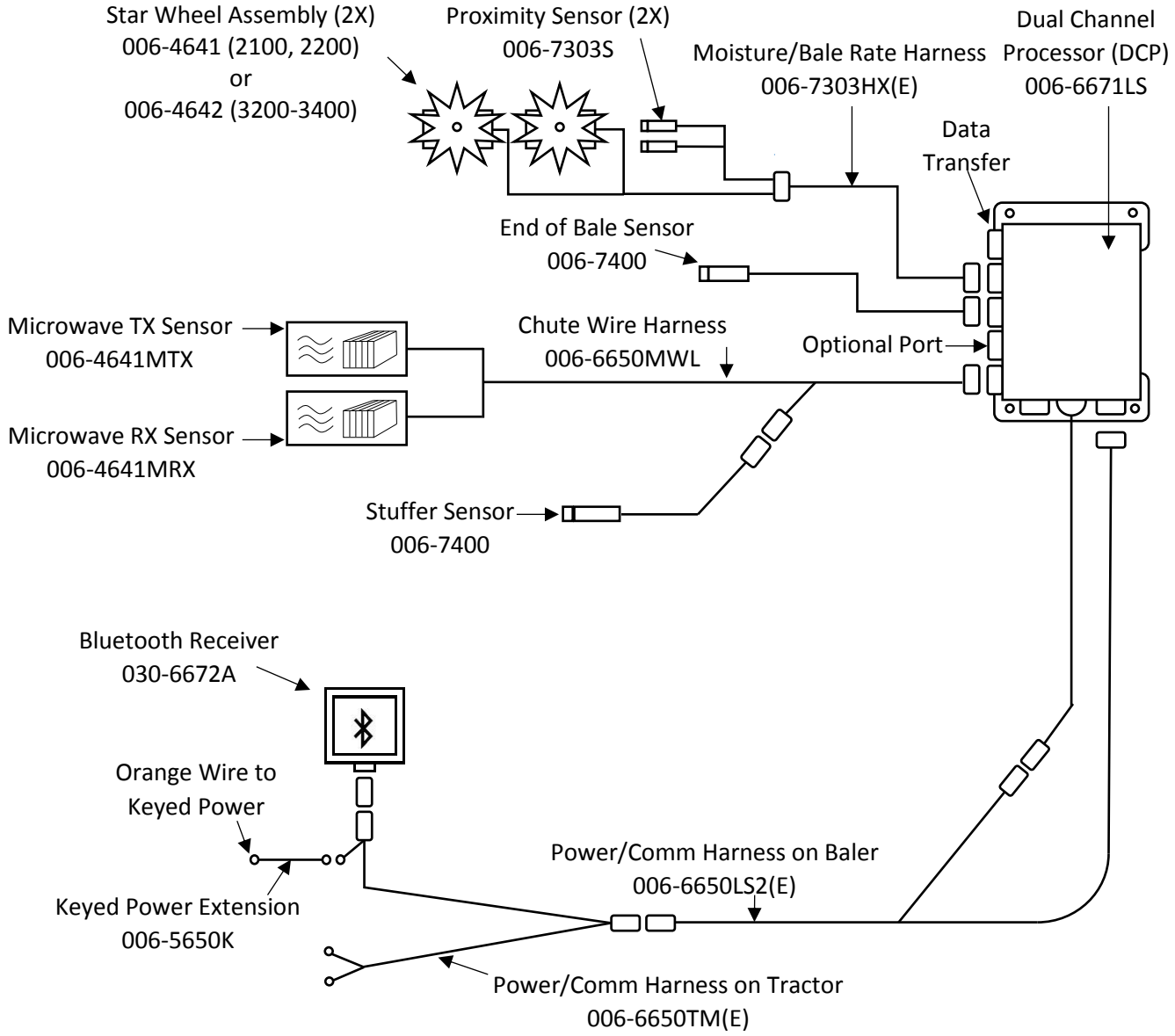
1. Locate the tractor power/communication harness (006-6650TM(E)).
2. At the back of the tractor run the power leads to the battery.
3. Connect the red power wire with the 50 amp fuse to the positive side (12 volt) of the battery.
   a. **The power harness must be connected to the battery!** The unit 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.**
4. Connect the black ground wire to frame of tractor or negative side of (12 volt) battery.
5. Connect the Bluetooth Receiver (030-6672A) to the Communication Harness (006-6650TM(E)). 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 Chute Wire Harness (006-6650MWL) into the Pump Controller port on the DCP.
10. Connect Microwave Sensors (006-4641MTX & 006-4641MRX) to the Chute Wire Harness.
11. Connect the Stuffer Sensor (006-7400) to the Chute Wire Harness (006-6650MWL).
12. When running a steamer, connect the Power / Comm extension harness (006-6650FMX) to the baler mounted Power / Comm Harness (006-6650LS(E)) for an additional 25' length from the tractor to the baler.



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

602 Wiring Diagram – Non AGCO 2100 & 2200, Non-John Deere and Non-CNH LB & BB Balers

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.
   b. **This unit will not function on positive ground tractors.**
4. Connect the black ground wire to frame of tractor or negative side of (12 volt) battery.
5. Connect the Bluetooth Receiver (030-6672A) to the Communication Harness (006-6650TM(E)). 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 Chute Wire Harness (006-6650MWL) into the Pump Controller port on the DCP.
10. Connect Microwave Sensors (006-4641MTX & 006-4641MRX) to the Chute Wire Harness.
11. Connect the Stuffer Sensor (006-7400) to the Chute Wire Harness.
12. When running a steamer, connect the Power / Comm extension harness (006-6650FMX) to the baler mounted Power / Comm Harness (006-6650LS2(E)) an additional 25' length from the tractor to the baler.



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

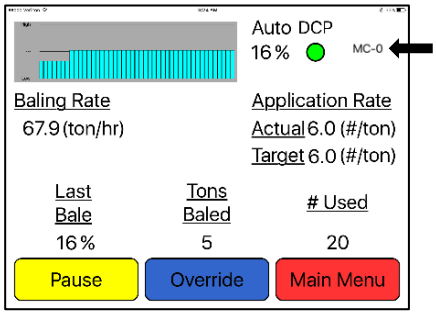
Common Questions

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.

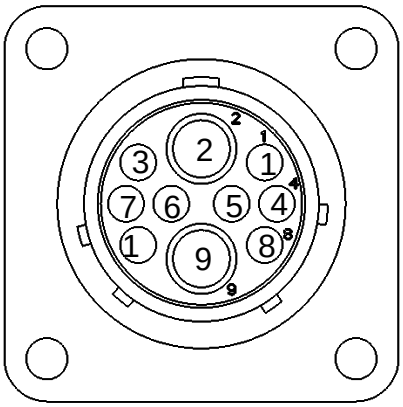
Troubleshooting

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

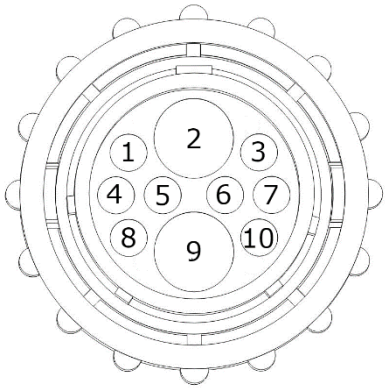
Power/Comm Harness 006-6650TM(E) at Hitch

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



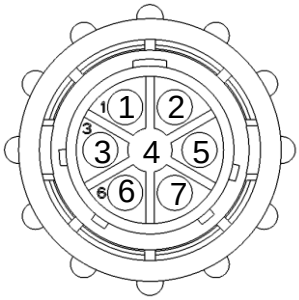
Power/Comm Harness 006-6650LS(E) or LS2(E) at Hitch

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



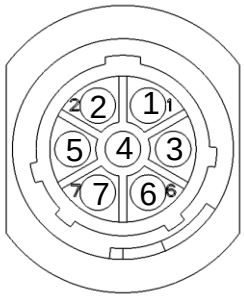
Bluetooth Receiver on Harness 006-6650TM(E)

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



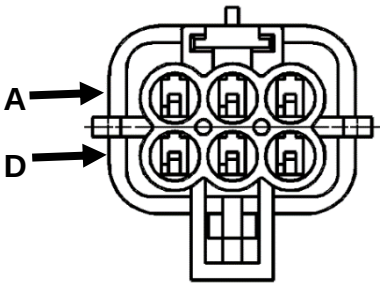
006-6650VA to DCP Whip

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

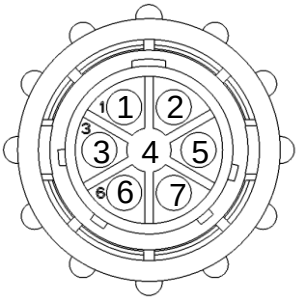
Pin A	N/A	
Pin B	Red	TBC Power
Pin C	N/A	
Pin D	Gray	TBC Ground
Pin E	Orange	Can1 Hi
Pin F	Blue	Can1 Low



Pin Outs (continued)

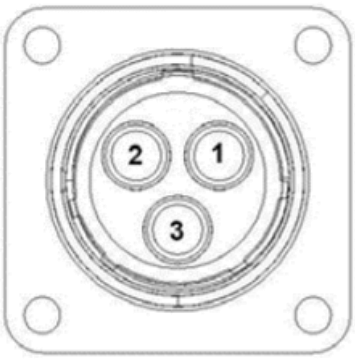
<u>006-6650VA to 006-6650LS(E) or LS2(E)</u>

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	



<u>Main Power Connector on Dual Channel Processor (DCP)</u>

Pin 1	Red	+12V Power from tractor
Pin 2	Black	Ground from tractor
Pin 3	Orange	Keyed power

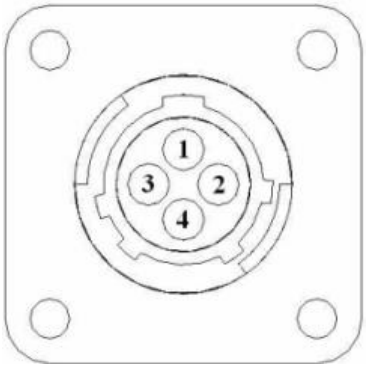


<u>Star Wheel and Bale Rate Sensor Connector on DCP</u>

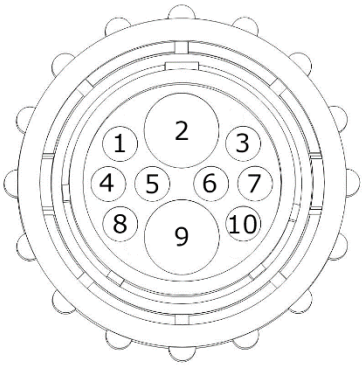
Pin 1	Blue	+12V Power
Pin 2	Orange	Ground
Pin 3	Black	Signal for sensor 1
Pin 4	White	Signal for sensor 2
Pin 5	N/A	
Pin 6	N/A	
Pin 7	N/A	
Pin 8	Violet	Star wheel input 1
Pin 9	Brown	Star wheel input 2

<u>End of Bale Sensor on DCP</u>

Pin 1	Brown	Sensor Power
Pin 2	Blue	Sensor Ground
Pin 3	N/A	
Pin 4	Black	Signal from Sensor

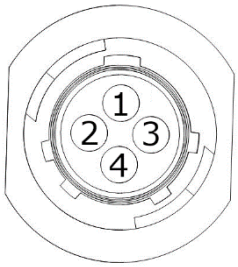


Pin Outs (continued)



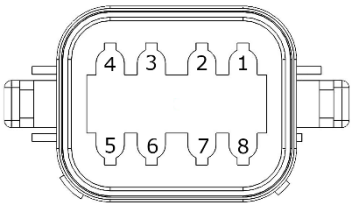
Microwave Moisture Harness 006-6650MW or 006-6650MWL

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



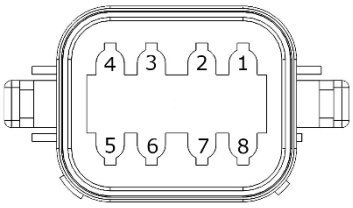
Microwave Moisture Harness 006-6650MW or 006-6650MWL

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

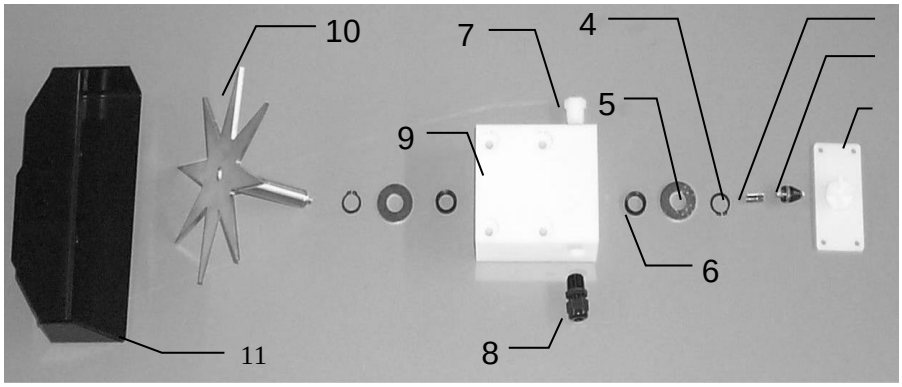


Microwave Moisture Chamber Harness 006-6650MW or 006-6650MWL (TX)

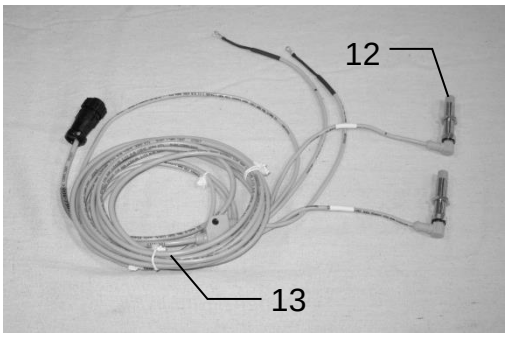
Pin 1	Black	Ground
Pin 2	Red	Power
Pin 3	Yellow	Can H
Pin 4	Green	Can L
Pin 5	Plugged	
Pin 6	Plugged	
Pin 7	Plugged	
Pin 8	Plugged	

Parts Breakdown

Star Wheel Moisture Sensor and Bale Rate Sensors



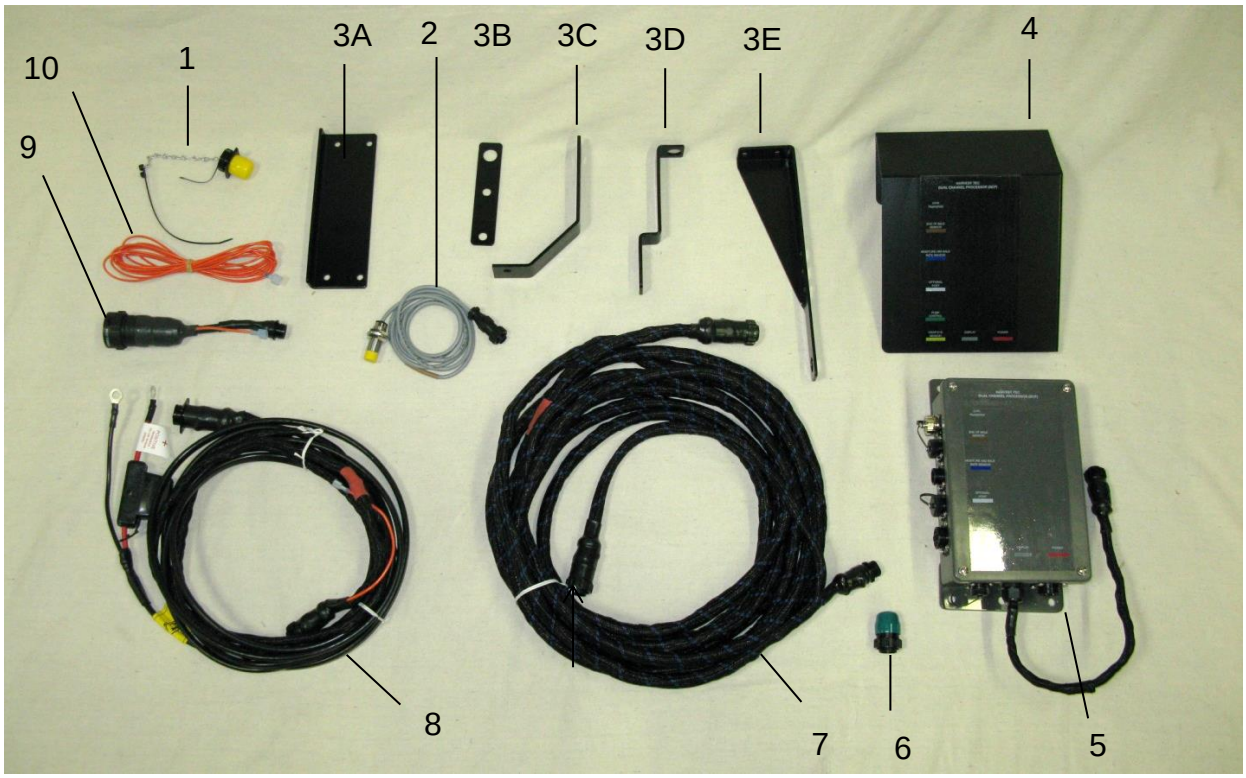
Ref	Description	Part Number	Qty	Ref	Description	Part Number	Qty
1	Block cover	006-4641B	2	9	Star wheel block	006-4641A	2
2	Electronic swivel	006-4642A	2	10	Star wheel sensor	030-4641C	2
3	Swivel insert	w/ Ref # 10	2	11	Twine guard-left	001-4645	1
4	Snap ring (per side)	006-4641K	2		Twine guard-right (prox)	001-4644	1
5	Washer (per side)	w/006-4641K	2		And with bale rate sensor		
6	Dust seal (per side)	w/006-4641K	2		holes in it		
7	Plug fitting	003-F38	2	1-10	Star wheel assembly	030-4641	2
8	Wiring grommet	008-0821A	2				



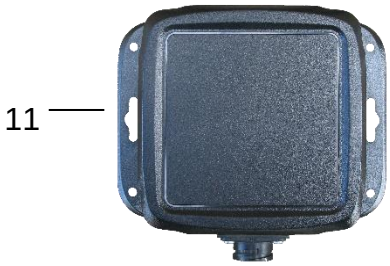
Ref	Description	Part Number	Qty
12	Bale rate sensor	006-7303S	2
13	Moisture and bale rate harness	006-7303HL(E)	1

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

602 Control and Harnesses

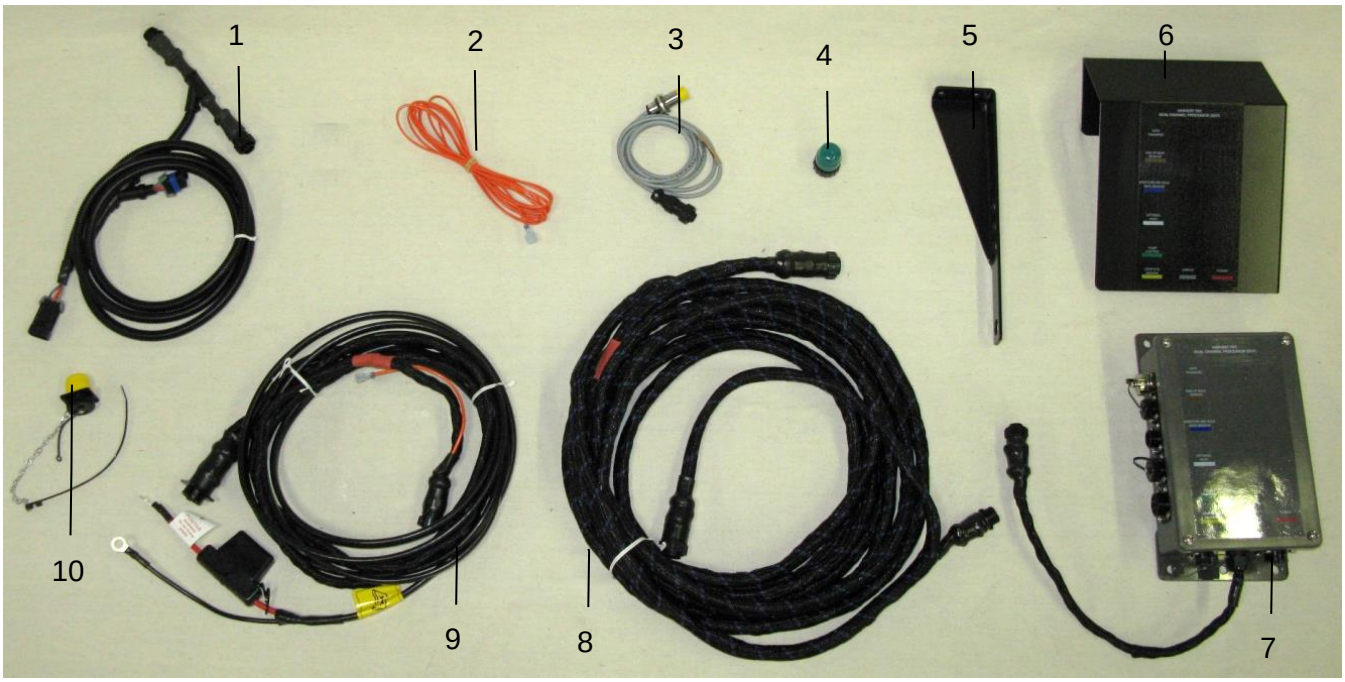


Ref	Description	Part Number	Qty
1	Dust Plugs	006-5651PLUGS	1
2	End of Bale Sensor 600 Series	006-7400	1
3a	Hesston 4755, 4910 EOB Mount	001-4648H	1
3b	EOB Bracket CLAAS 3300	001-4648C	1
3c	Krone EOB Bracket	001-4648K	1
3d	EOB BKT Krone 12130	001-4648K2	1
3e	End of Bale Sensor Bracket	001-4948	1
4	DCP Shield Cover	001-5650X	1
5	DCP Main Control LS 600 AUTO	006-6671LS	1
6	Terminating Connector w/ Green Cap	006-5650Z	1
7	DCP Baler Harness 30’	006-6650LS2(E)	1
8	DCP Tractor Harness	006-6650TM(E)	1
9	Optional ISOBUS Tractor Plug (not included)	006-6670A	1
10	Key Switch Wire	006-5650K	1
11	Bluetooth Receiver	030-6672A	1



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

602A Control and Harnesses



Ref	Description	Part Number	Qty
1	DCP Baler Interface Harness	006-6650VA	1
2	Key Switch Wire	006-5650K	1
3	End Of Bale Sensor	006-7400	1
4	Terminating Connector w green cap	006-5650Z	1
5	End of Bale Sensor Bracket	001-4648	1
6	DCP Shield/Cover	001-5650X	1
7	DCP Main Control LS 600 AUTO	006-6671LS	1
8	DCP Baler Harness 30 FT	006-6650LS2(E)	1
9	DCP Tractor Harness	006-6650TM(E)	1
10	Dust Plugs	006-5651PLUGS	1
	Bluetooth Receiver	030-6672A	1
	AGCO 2100 Series Balers Pre 2012 need	006-6650VAX	

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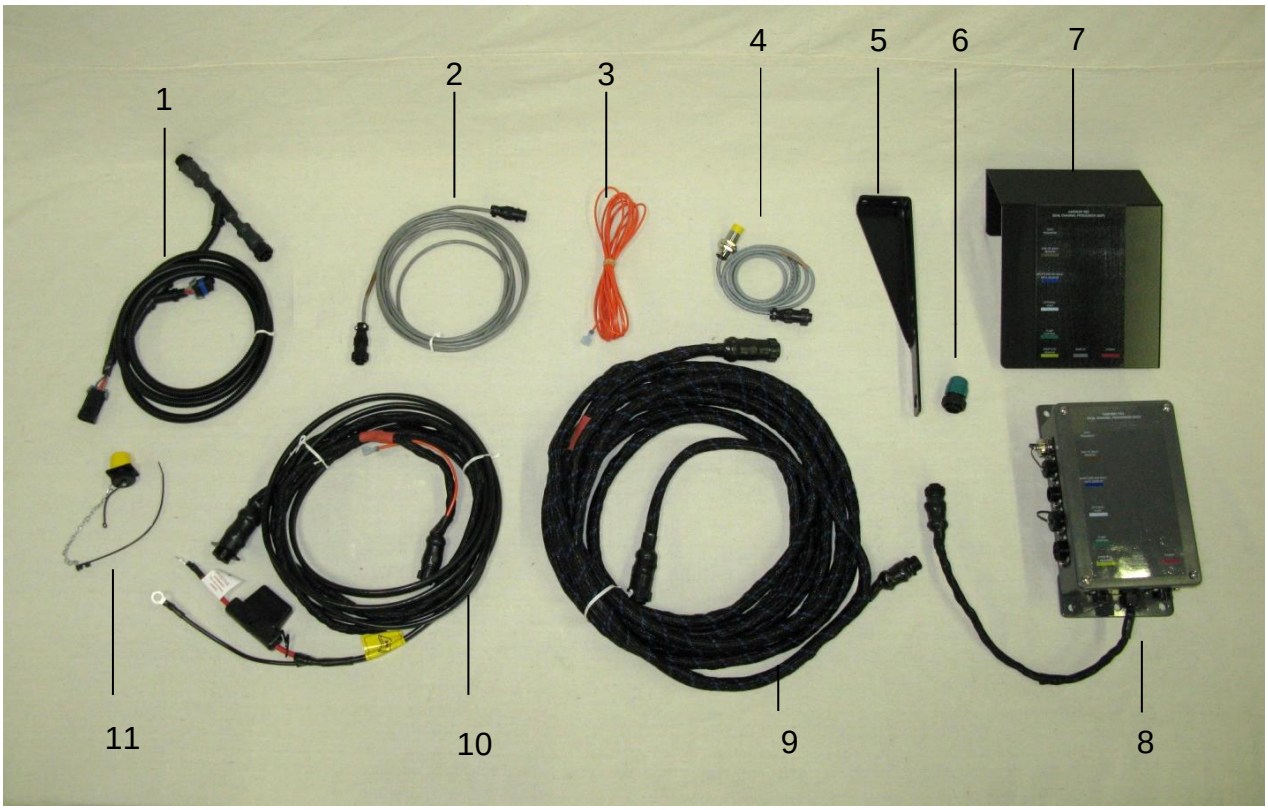
*Note: (E) indication is used for International Dealers

602BB Controls and Harnesses

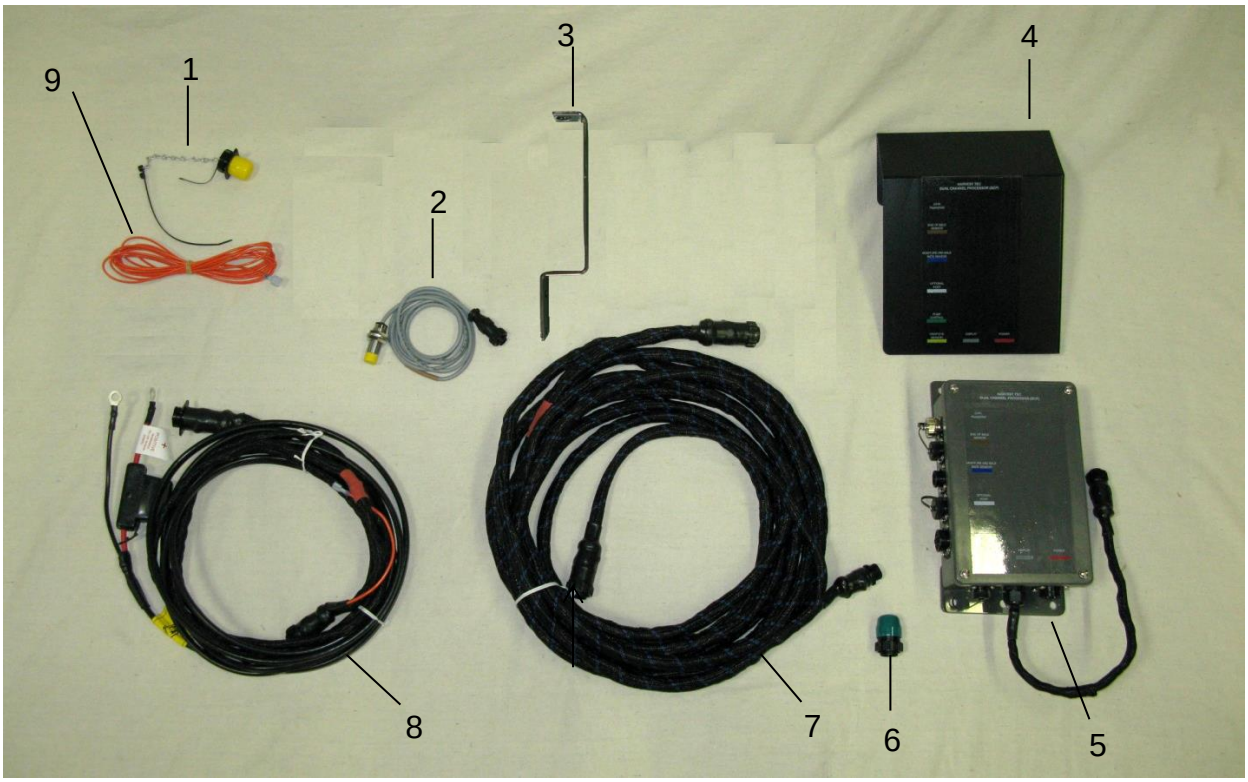


Ref	Description	Part Number	Qty
1	DCP Baler ISO/VT Harness	006-6650VA	1
2	EOB Extension for CNH BB Series	006-7400BBEXT	1
3	Key Switch Wire	006-5650K	1
4	End of Bale Sensor 600 Series	006-7400	1
5	End of Bale Sensor Bracket	001-4648	1
6	Terminating Connector 600 Series w/green cap	006-5650Z	1
7	DCP Shield/Cover	001-5650X	1
8	DCP Main Control LS 600 AUTO	006-6671LS	1
9	DCP Baler Harness 15 FT	006-6650LS(E)	1
10	DCP Tractor Harness	006-6650TM(E)	1
11	Dust Plugs	006-5651PLUGS	1
12	Bluetooth Receiver	030-6672A	1

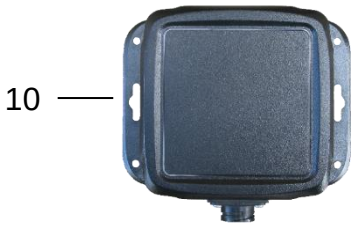
12 →

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

602J Control and Harnesses

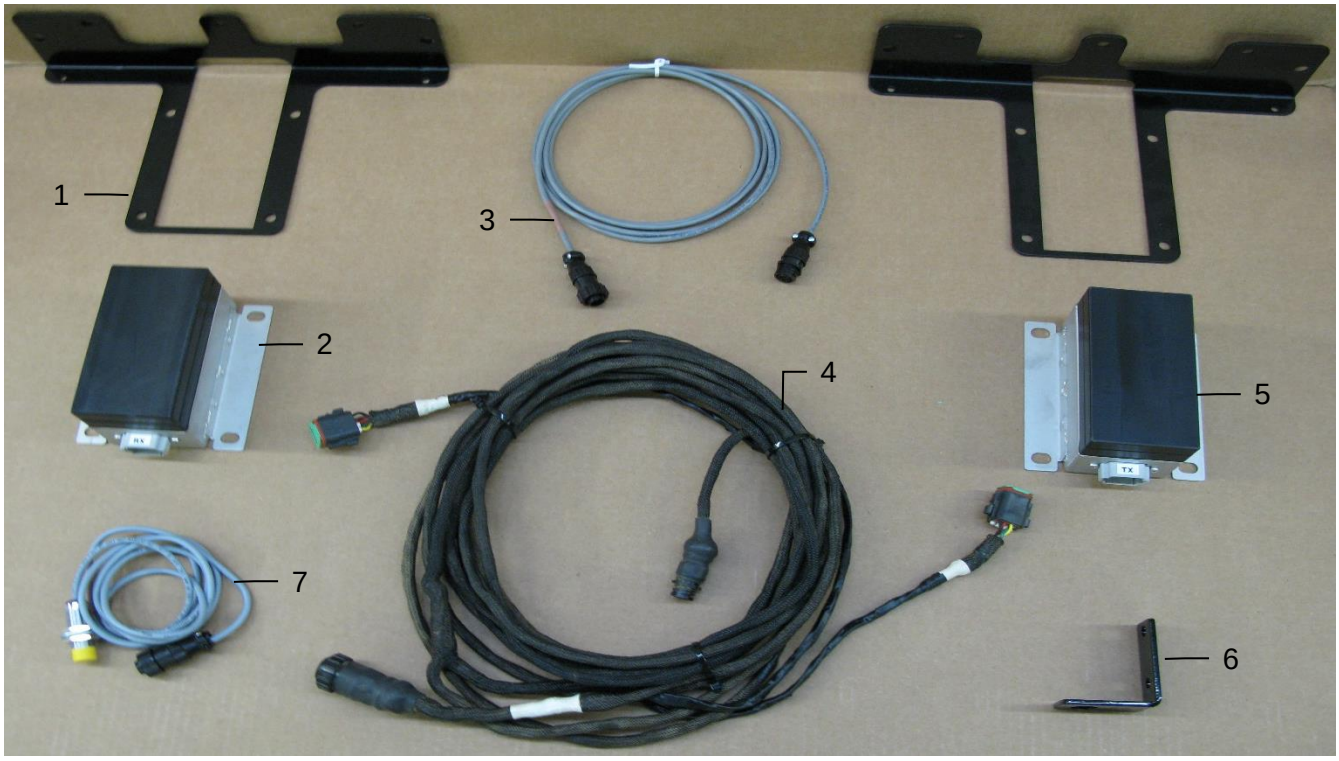


Ref	Description	Part Number	Qty
1	Dust Plugs	006-5651PLUGS	1
2	End of Bale Sensor 600 Series	006-7400	1
3	End of Bale Sensor Bracket	001-4648J	1
4	DCP Shield Cover	001-5650X	1
5	DCP Main Control LS 600 AUTO	006-6671LS	1
6	Terminating Connector (Green Cap)	006-5650Z	1
7	DCP Baler Harness 30 Ft	006-6650LS2(E)	1
8	DCP Tractor Harness	006-6650TM(E)	1
9	Key Switch Wire	006-5650K	1
10	Bluetooth Receiver	030-6672A	1
NP	Baler Integration Harness	006-6650VAJ	1



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

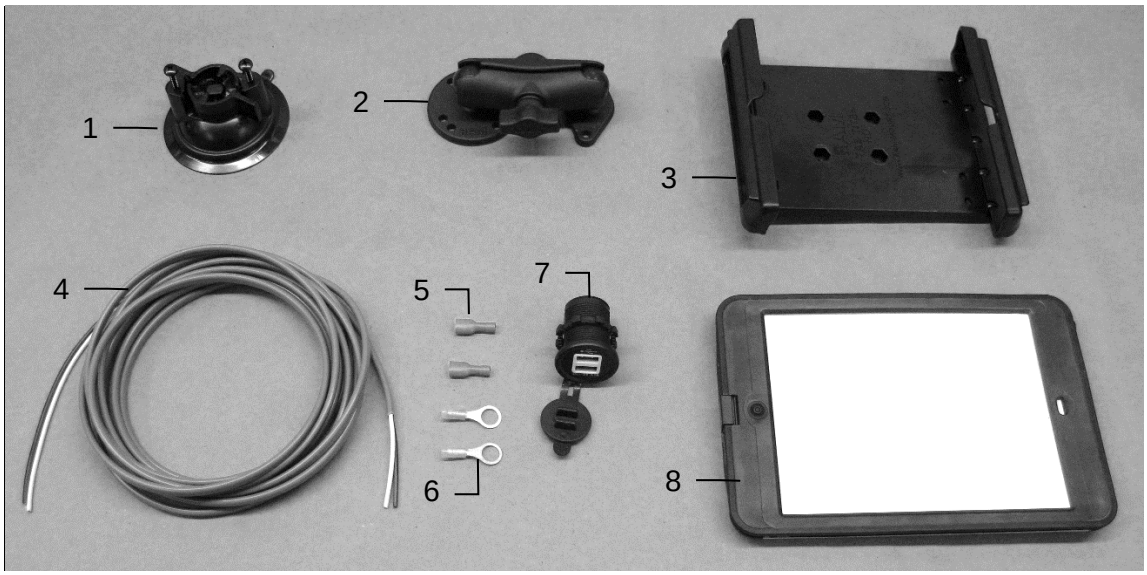
Microwave Moisture Bale Chute System



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)

Optional iPad Mini Mounting Kit (030-2014MK)



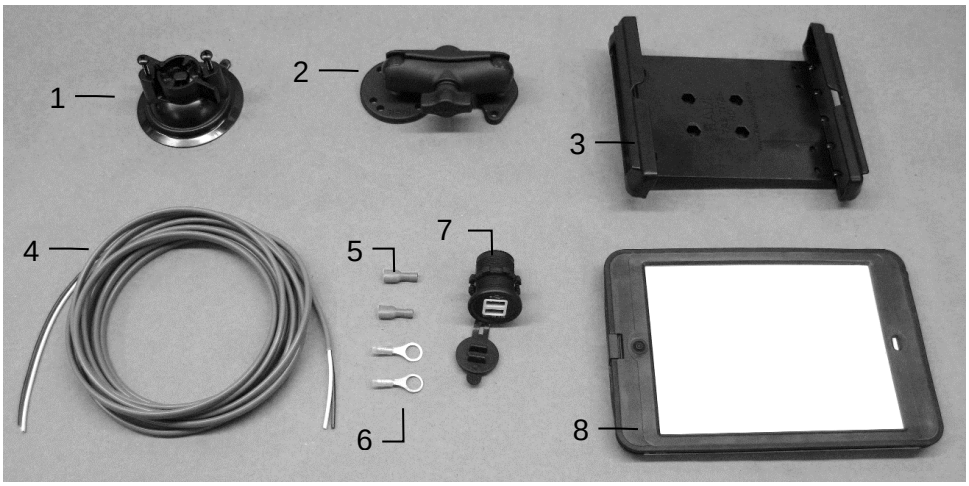
Ref	Description	Part #	Qty
1	Suction cup mount	001-2012SCM	1
2	Ram mount	001-2012H	1
3	iPad Mini spring load cradle (Mini 1,2,3)	001-2012SLC	1
4	16 gauge power wire	006-4723P	1
5	Female spade connector	Hardware	2
6	Eye loop connector	Hardware	2
7	iPad Mini Charger 12V	001-2012P	1
8	iPad Mini 4 case	001-2012C4	1
NP	4 amp fuse	Hardware	1
	Mounting Kit Assembly	030-2014MK (Includes All Parts)	

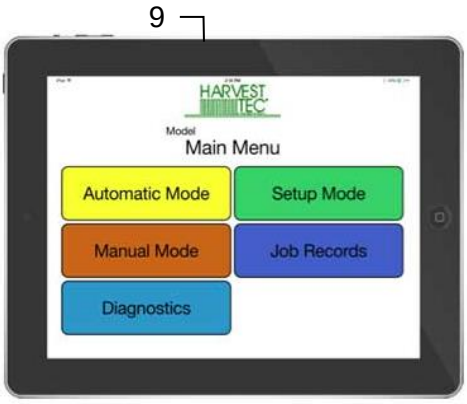
Installation Instructions

1. Identify 12V power source for wires to connect.
    a. Eye loops included if wiring directly to the battery is desired.
    b. Test for key power source if preferred to have power to the USB shut off with the key.
2. Once power source is identified, cut wires to desired length.
3. Crimp the two supplied quick connectors onto each the white and black wire.
4. Remove the round locking plastic nut from USB plug before connecting the wires. Black (+) White (-).
5. The wires will then be hooked to the designated terminals on the bottom of the USB plug
6. Drill a 1 1/8” hole in the preferred mounting location. Be sure to clean any sharp edges after drilling.
7. Feed the wires through the mounting hole.
8. If using the round plastic nut to secure plug in place, slide the nut back over the wiring before connecting the wires to powered source.
9. Connect the wires to the identified power source if easier to do so before tightening the plug into place.
10. Tighten plug using either the round plastic nut or mounting plate and two screws, both options supplied.
11. Once connected, hook a USB charging cord into the plug and connect a mobile device/tablet to ensure the plug is operating as you wish (key power working properly if necessary).

NOTE: This plug is not designed to charge two iPads. System damage could occur if this is attempted. System will charge a mobile phone and iPad simultaneously without problem.

Optional iPad Display Kit (030-4670DK)





Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Suction cup mount	001-2012SCM	1	7	iPad Mini Charger 12V	001-2012P	1
2	Ram mount	001-2012H	1	8	iPad Mini 4 case	001-2012C4	1
3	iPad Mini spring load cradle (Mini 4)	001-2012SLC	1	9	iPad Mini 4	006-4670IP	1
4	16 gauge power wire	006-4723P	1	NP	4 amp fuse	Hardware	1
5	Female spade connector	Hardware	2				
6	Eye loop connector	Hardware	2	Mounting Kit Assembly		030-4670DK (Includes All Parts)	

Installation Instructions

1. Identify 12V power source for wires to connect.
    a. Eye loops included if wiring directly to the battery is desired.
    b. Test for key power source if preferred to have power to the USB shut off with the key.
2. Once power source is identified, cut wires to desired length.
3. Crimp the two supplied quick connectors onto the white and black wire.
4. Remove the round locking plastic nut from USB plug before connecting the wires. Black (+) White (-).
5. The wires will then be hooked to the designated terminals on the bottom of the USB plug
6. Drill a 1 1/8” hole in the preferred mounting location. Be sure to clean any sharp edges after drilling.
7. Feed the wires through the mounting hole.
8. If using the round plastic nut to secure plug in place, slide the nut back over the wiring before connecting the wires to powered source.
9. Connect the wires to the identified power source if easier to do so before tightening the plug into place.
10. Tighten plug using either the round plastic nut or mounting plate and two screws, both options supplied.
11. Once connected, hook a USB charging cord into the plug and connect a mobile device/tablet to ensure the plug is operating as you wish (key power working properly if necessary).

NOTE: This plug is not designed to charge two iPads. System damage could occur if this is attempted. System will charge a mobile phone and iPad simultaneously without problem.

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