

Installation Manual

Model 700

Moisture Sensor Kit for Large Square Balers



HarvestTec®

EST. 1976

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Introduction

Thank you for purchasing the 700 series moisture system. This system has been designed to be operated through the Harvest Tec display, an iOS or Android tablet (not included) using the Precision Baling App, or to plug directly into compatible baler's ISOBUS and display.

The 700 Series Moisture System is designed to be expandable and be able to apply Harvest Tec Baler's Choice buffered propionic acid to the forage crop as it is baled. Failure to follow instructions can result in personal injury or equipment malfunction. If you need parts for the system, please view the Parts Breakdown and contact your local authorized dealer to order the parts.

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

Tools Needed

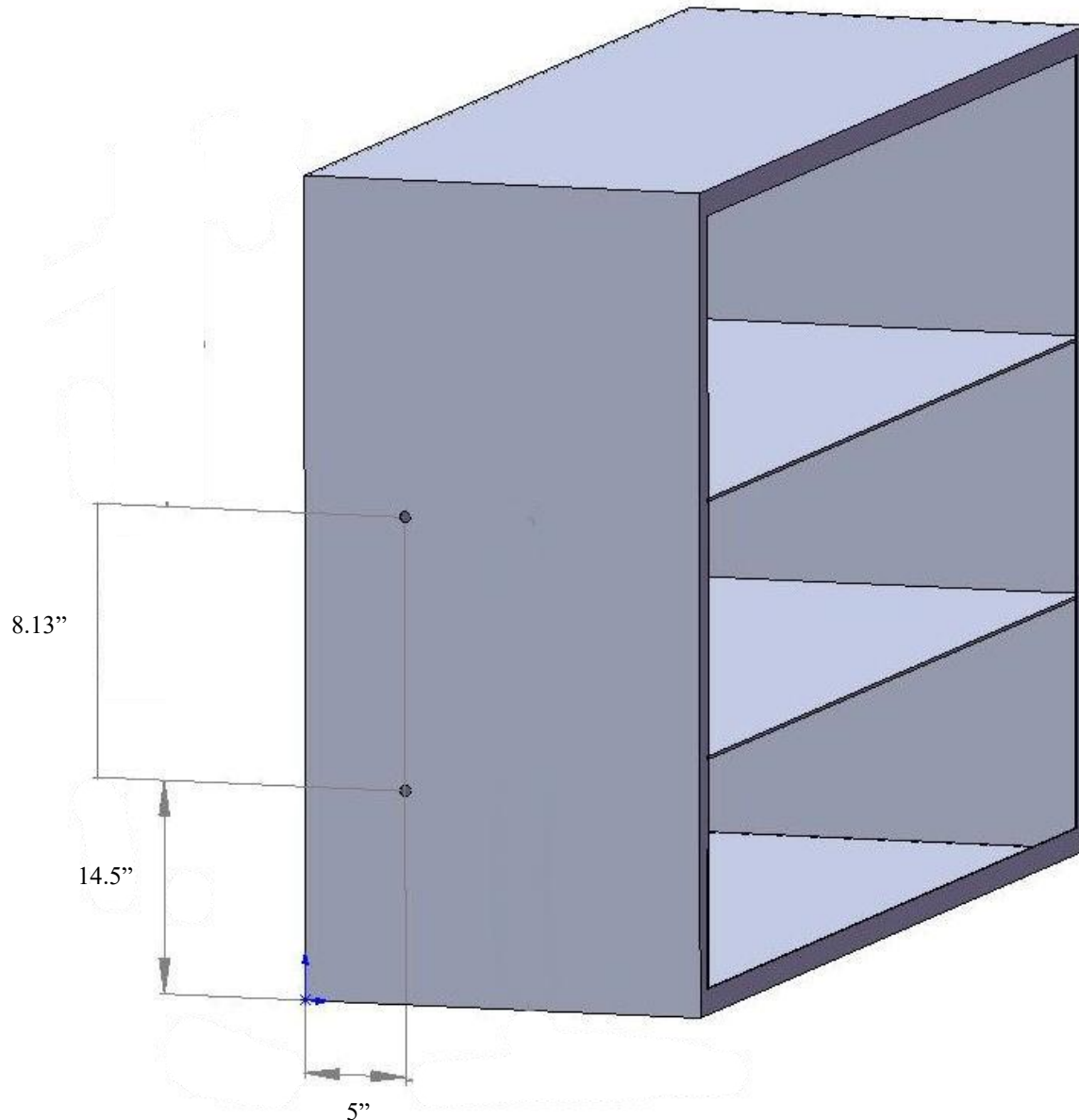
Standard Wrench set
Side cutter
Standard Socket Set

Electric drill and bits
Hammer
Center punch

Installation – 700 Moisture Only

ISO Pump Module (IPM) Processor

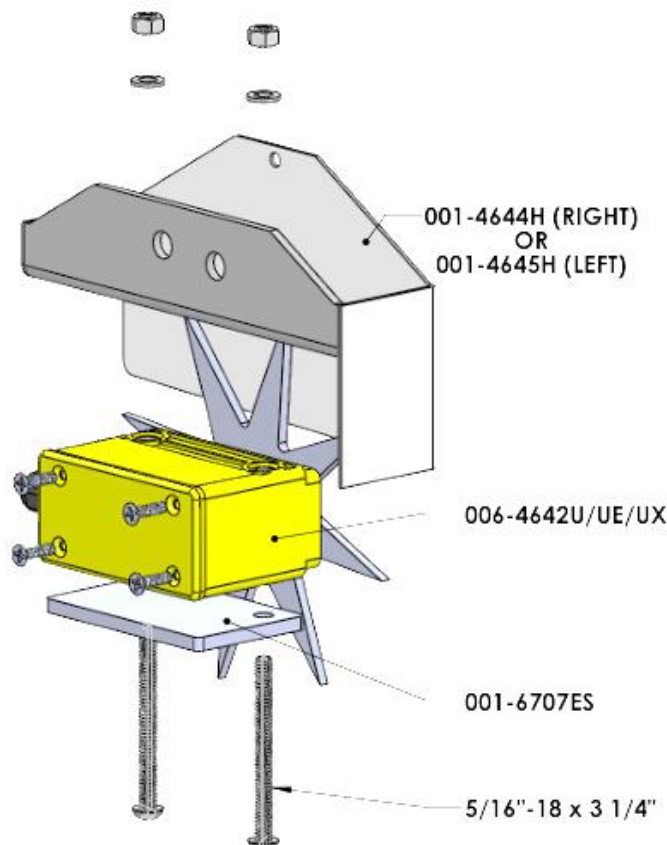
Follow the instructions below to mount the ISO Pump Module (IPM) Processor onto the baler. The locations shown are on the right twine box (looking form the back of the baler). Mark and drill the two 3/8 (10mm) holes and install the (IPM) with two 5/16 x 1 bolts, four 1/4" washers, and two 5/16" nylock nuts. Main harness whip coming out of (IPM) should point to the ground. When attaching other harness make sure to loop them below the (IPM) so as not to funnel water into the control.



Star Wheel Moisture Sensor Kit – (MSH-LS-EXT)

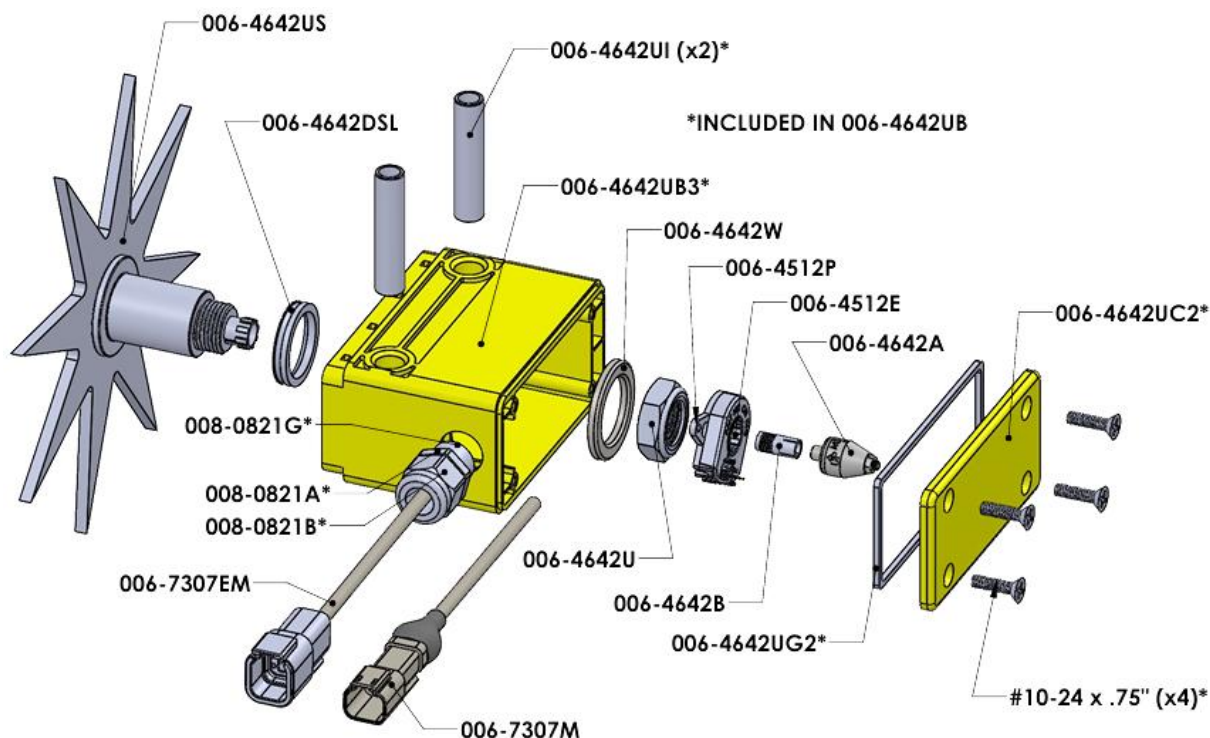
1. Locate both two-star wheel moisture sensors (030-4642U / UE), twine diverters (001-4644H / 4645H), spacer plates (001-6707ES) and hardware parts bag.
2. The star wheels will be placed as close to the knotter as possible. Follow installation instructions for your specific baler model.
3. Install with four (two per side) 5/16" x 3-1/4" Allen buttonhead cap screws. Make sure the Allen heads are in the bale chamber side of the star wheel.
4. The star wheel with the 6-position plug will need to be placed on the right side of the baler along with the twine diverter with two extra holes. 030-4642UE Star Wheel must rotate in the indicated clockwise direction as the bale moves thru the bale chamber. Reference the rotation indicator sticker on star wheel block.
5. The star wheel with the 2-position plug will need to be placed on the left, or ladder side of the baler.
6. Place a spacer plate between each star wheel block and the bale chamber with twine diverter on top.
7. Secure spacer plates, star wheels and twine diverters to baler with 5/16" hex nuts and lock washers. Hand tighten with wrench or ratchet- not to exceed 13 ft-lb torque. **DO NOT USE AN IMPACT TO TIGHTEN.** Over torquing star wheel mounting hardware can cause pre-mature wear of the star wheel blocks.
8. Connect moisture harness (006-7307EM2 or 006-7307EM3) to both star wheels.
9. Route other end of (006-7303EM2 or 006-7307EM3) along top of baler to the pump module located at the back of the baler on the tank saddle.
10. Attach rectangle plug of moisture harness to bottom of ISO pump module (IPM).

The following pages contain detailed instructions for specific baler make and models:

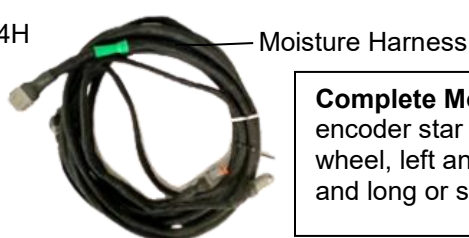
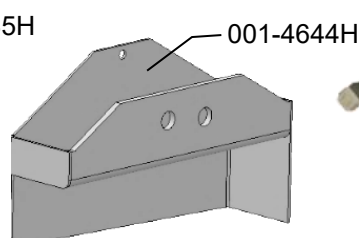
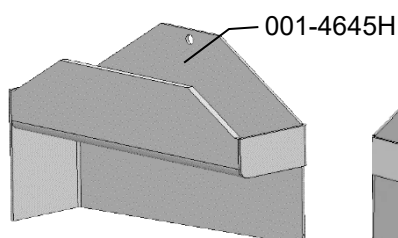


Star Wheel Sensors- 700 Series

For Large Square Balers – Reinforced Yellow Block 2026



Description	Part#	Qty	Description	Part#	Qty
Star Wheel (includes swivel insert)	006-4642US	1	Star Wheel Spacer Plate (not pictured)	001-6707ES	1
Dust Seal Gasket	006-4642UG	1	Star Wheel Mounting Hardware (5/16" x 3-1/4" Allen Head Screws, nuts, locks and washers)		2
Star Wheel Block Only	006-4642UB3	1	Twine Guard -Left	001-4645H	
Star Wheel Block End Cap	006-4642UEC	1	Twine Guard -Right	001-4644H	
Block Inserts	006-4642UI	2	Star Wheel Drilling Template (optional)	001-4642T	
Wire Compression Grommet	008-0821A	1	Replacement Star Wheel Block*	001-4642UB	
Grommet Locking Nut (internal)	008-0821B	1	Complete Non-Encoder Star Wheel	030-4642U	
Washer for Wire Grommet	008-0821G	1	Complete Encoder Star Wheel	030-4642UE	
Bearing Washer	006-4642W	1	Moisture Harness- Standard (12' and 13' Section lengths)	006-7307EM2	
Star Wheel Nut	006-4642U	1	Moisture Harness- Long (16' and 18' section lengths)	006-7307EM3	
Encoder Mount (030-4642UE only)	006-4512P	1	Complete Moisture Kit* -Standard	MSH-LS-STD	
Encoder (030-4642UE only)	006-4512E	1	Complete Moisture Kit* - Long	MSH-LS-EXT	
Swivel Insert	006-4642B	1			
Swivel Insert	006-4642B	1			
Electric Swivel	006-4642A	1			
Electric Swivel	006-4642A	1			
Star Wheel Block Gasket	006-4642UG2	1			
Star Wheel Block Cover	006-4542UC2	1			
Encoder Harness Plug (6 Pin) (030-4642UE only)	006-7307EM	1			
Moisture Harness Plug (2 Pin) (030-4642U only)	006-7307M	1			



Complete Moisture Kits include encoder star wheel, non-encoder star wheel, left and right twine diverters and long or std. moisture harness.

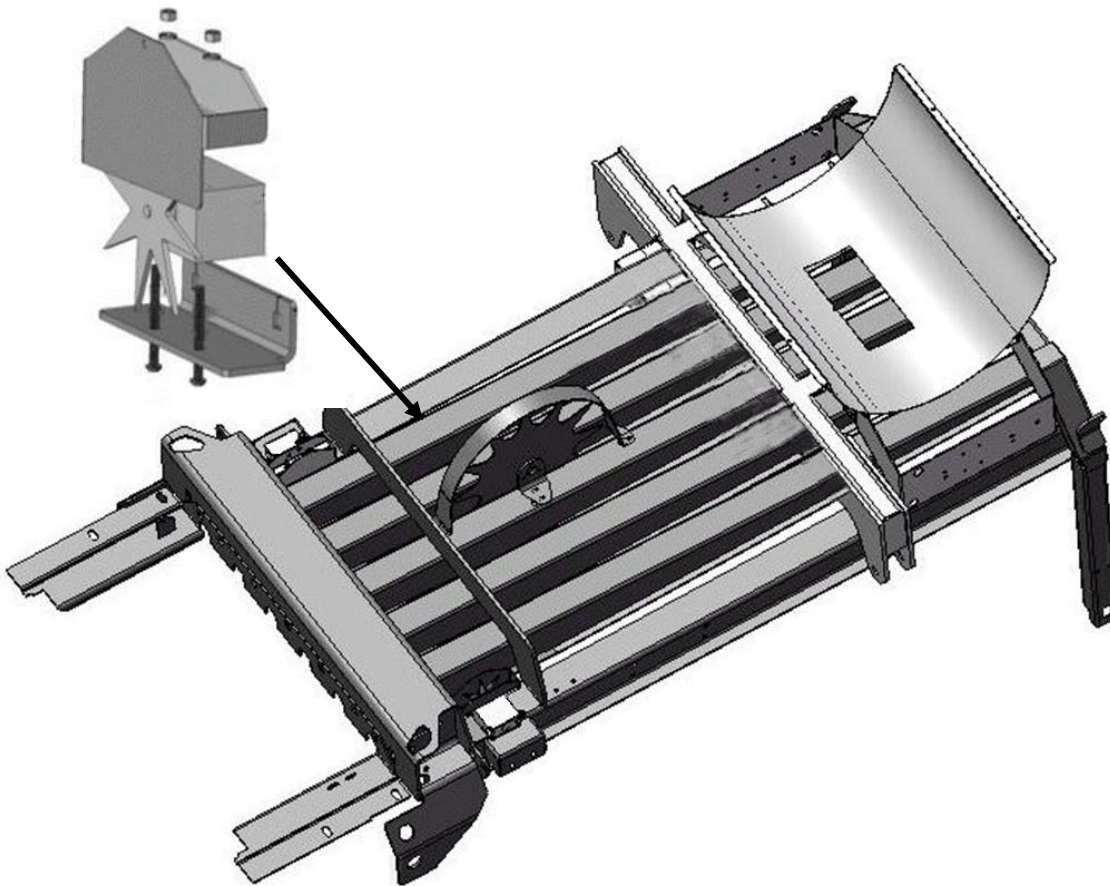
Agco Balers

**Challenger LB33, LB34; Hesston 7430, 4750, 4755, 4760, 4790;
Massey Ferguson 2050; New Idea 7233, 7333, 7234**

Star Wheel Mounting – The star wheels are mounted under the walkway on top of the baler behind the knotters. Remove the bale from the chute and tip the walkway up. Locate the outside corner angles of the bale chute on the left and right side of the baler. The center of the wheel shaft will be approximately 5-1/2" (13cm) in front of the walkway support or about halfway between the walkway support and the cross frame almost directly in front of it. The notch will start just in front of the walkway support.

Two parts of the baler frame will have to be trimmed off on both sides to mount each star wheel. The first is the outside corner angles of the chute. Use the template to mark the location of the star wheel notch as well as the location of the two holes for the star wheel base. The notch will be 5/8" by 9" (16mm x 23cm) long and will help keep the wheel away from the twine. Spray the ground off areas with touch up paint to prevent rusting. The second portion of the baler to trim off is the end of the gusset that may interfere with the star wheel's plastic base support. Center the star wheel in the slots that was just notched and check for interference with the gusset.

Drill 5/16" (8mm) holes for the star wheel block. Insert the 5/16" x 3-1/4" bolts up through the chute. Place spacer plate then star wheel block over the bolts and install the twine guards. Secure with 5/16" Lock washers and nuts. **The twine guard containing the two extra holes will be placed on the right side of the baler.**

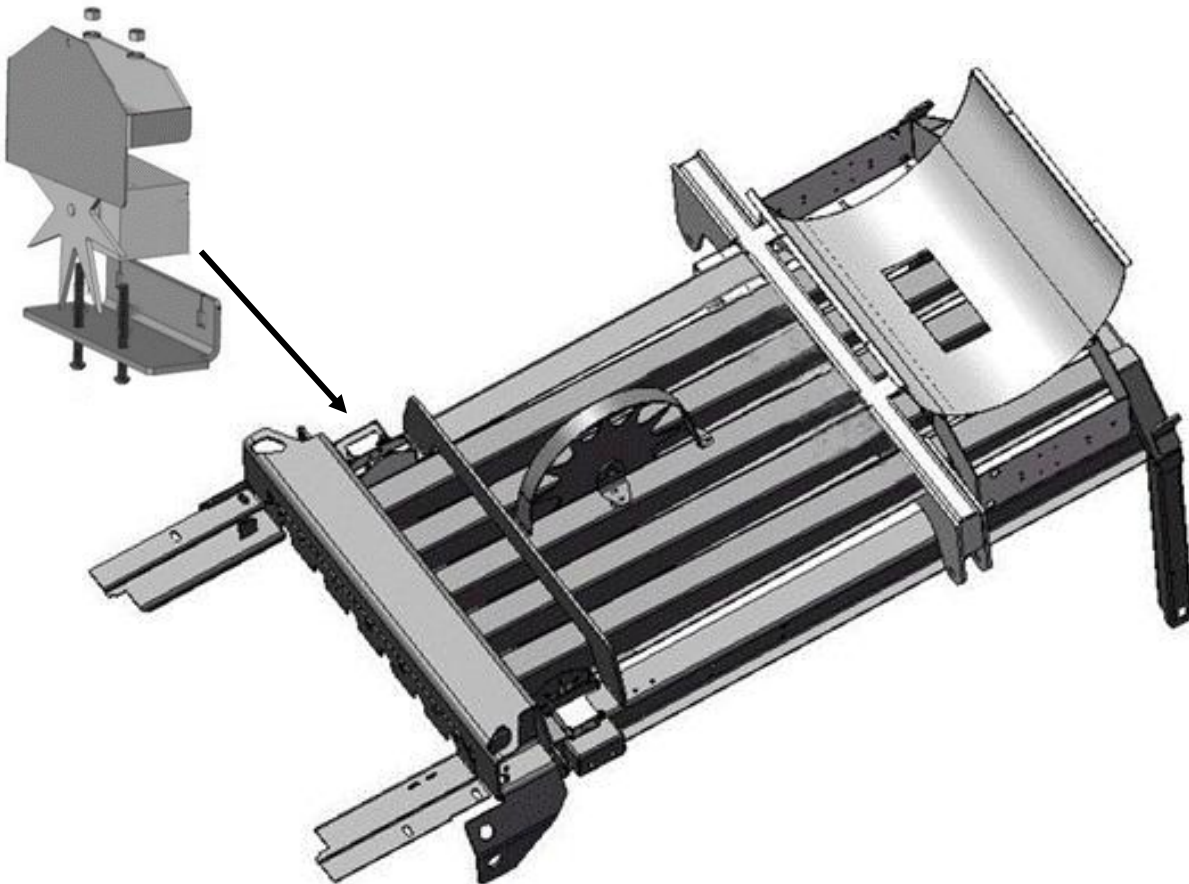


Agco Balers

Hesston 4900, 4910; Challenger LB44; New Idea 7244

Star Wheel Mounting –The star wheels are mounted on top of the baler, just behind the knotters under the walkway on both sides. Use the template at the back of the manual to mark the location and dimension of the notch and holes. Remove the bale from the chute. Tip the walkway up and locate the wheels on the top outside corner angles of the bale chute, one on each side. The star wheel block is located just in front of the horizontal channels holding the twine boxes. Using the template, mark the location of the notch (5/8" wide and 9" long) and the location of the two 5/16" (8mm) holes for the star wheelbase using a center punch. Any bare metal edge of the angle should be sprayed with touch up paint to prevent corrosion.

Once the above modification to the baler is made on both sides of the chute, the wheels can be mounted. Insert the 5/16" x 3-1/4" bolts up through the chute and use nuts to hold the bolts in place. Place spacer plate and star wheel block over bolts and install the twine guards on the star wheel block. **The twine guard containing the two extra holes will be on the right side of the baler.**



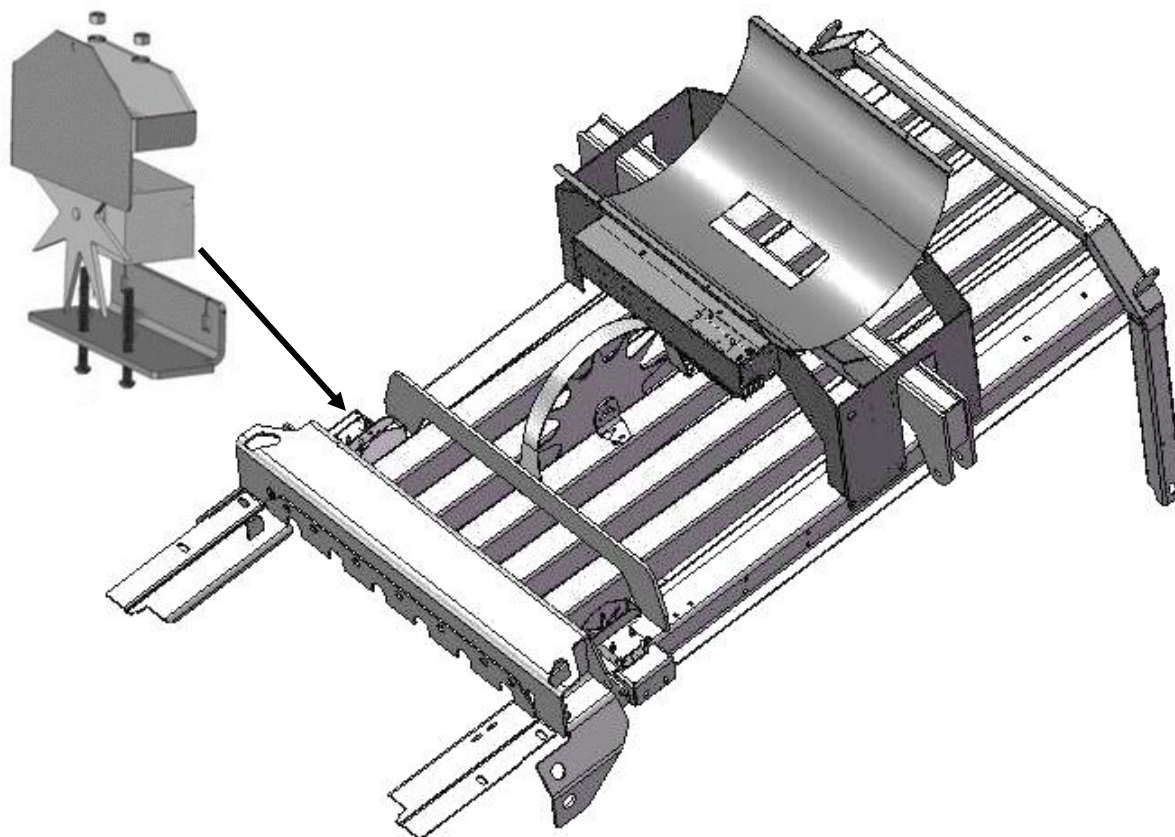
CNH Balers

New Holland 590 through BB9080; Case IH LBX331 through LB433

Star Wheel Mounting - The star wheels are to be mounted on top of the baler, just behind the knotters and under the walkway on both sides. Remove the bale from the chute, tip the walkway up and locate the wheels on the top outside corner angles of the bale chute, one on each side. Some balers may already have the notch cut and square holes.

If so, the holes will need to be drilled round with a 5/16" drill bit, if not use the template located in the back of the manual as a guide for cutting the notch and mounting holes for the star wheels. Mark the location of the notch 5/8" wide and 9" long (16mm x 23cm) and the location of the two 5/16" (8mm) holes for the star wheel base. After cutting the notch and drilling the holes, insert the 5/16" x 3-1/4" x black allen head bolts up through the chute.

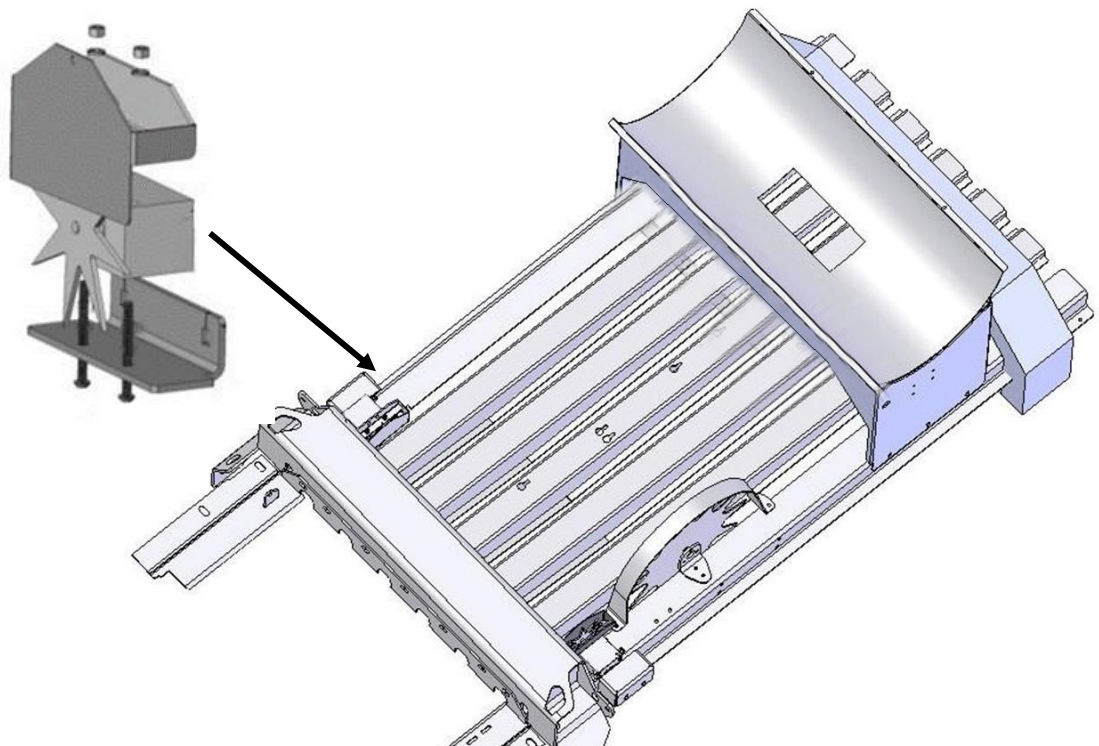
Place a spacer plate then star wheel block over the bolts and install the twine guards. Secure with 5/16" lock washers and nuts. The twine guard containing the extra two holes will be placed on the right side.



Claas 2100 and 2200 Balers

Star Wheel Mounting – The star wheels are to be mounted on top of the baler, just behind the knotters and as far forward as possible. Remove the bale from the chute. Locate the wheels on the top outside corner angles of the bale chute, one on each side. Use the template located in the back of the manual as a guide for cutting the notch and mounting holes for the star wheels.

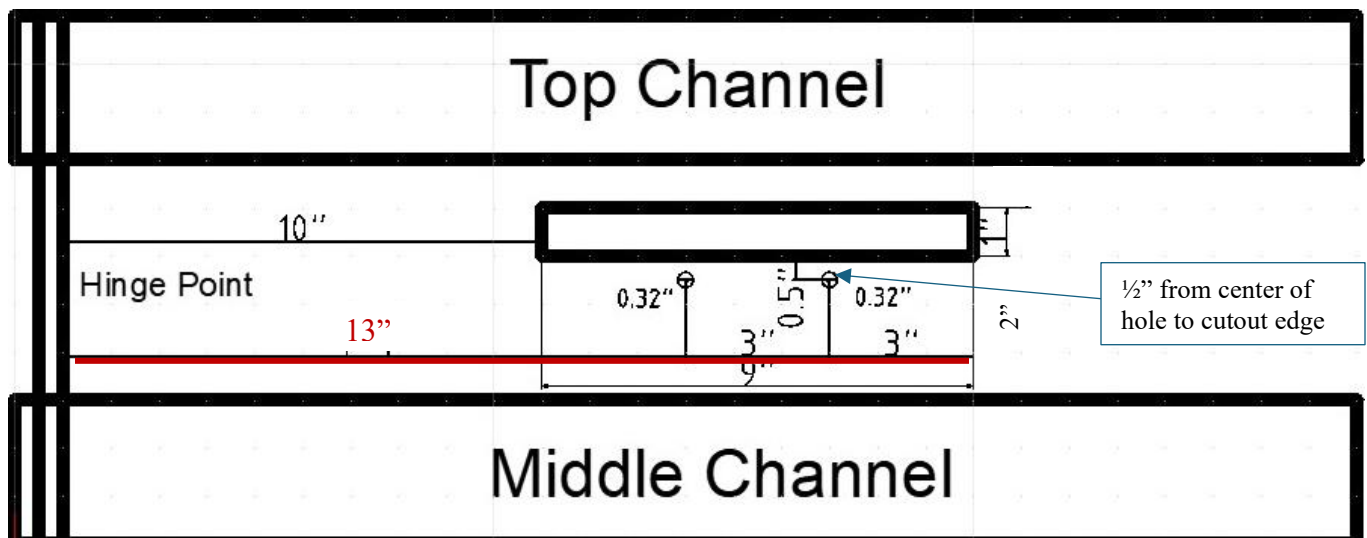
Mark the location of the notch 5/8" wide and 9" long (16mm x 23cm) and the location of the two 5/16" (8mm) holes for the star wheel base. After cutting the notch and drilling the hole, insert the 5/16" x 3-1/4" black Allen head bolts up through the chute. Place spacer plate and star wheel block over the bolts and install the twine guards. Secure with 5/16" lock washers and nuts. **The twine guard containing the extra two holes will be placed on the right side.**



Claas 3200-3400 and 5200-5300 Balers

Star Wheel Mounting – Use the picture below as a guide for drilling the mounting holes for the star wheels. The star wheels are to be mounted on the side of the bale chamber, between the top and middle channel. Measure 10" back from the hinge between the top and middle channel. Use the star wheel template and guide for cutting the notch and mounting holes for the star wheels. Cut 1" x 9" (25mm x 23cm) slot for the star wheel. Make sure the wheel is square.

Mark the location of the two 5/16" holes for the star wheel base. After drilling the holes, insert the 5/16" x 3-1/4" allen head bolts through the chute. Place spacer plate and star wheel block over the bolts and install twine guards on each star wheel. Secure with 5/16" lock washers and nuts. **The twine guard containing the extra two holes will be placed on the right side.**

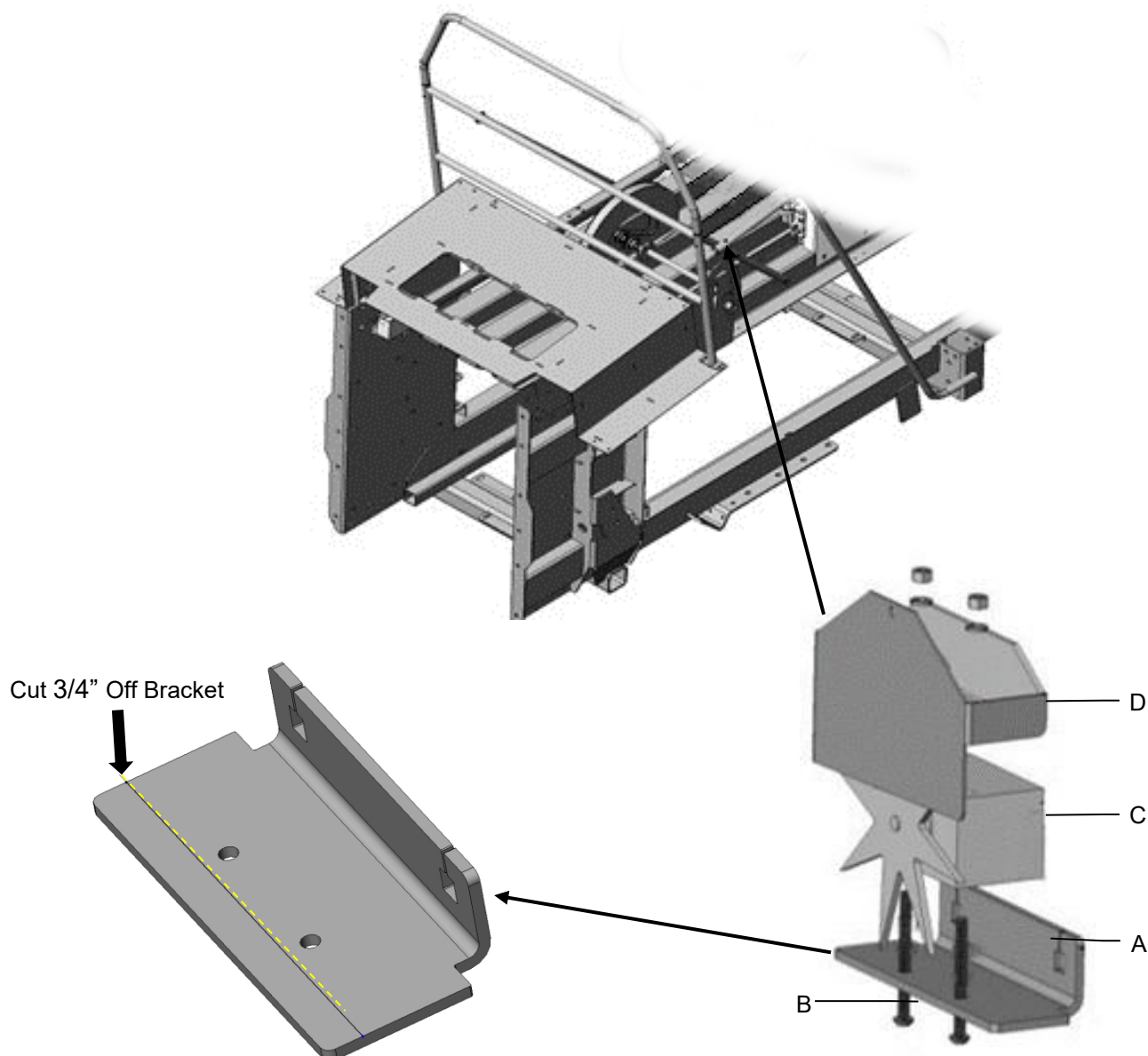


John Deere L330/L340 and L331/L341 Large Square Balers

Star Wheel Installation

Remove any material from the bale chute. The star wheels are to be mounted on the transition bracket on both sides of the bale chute located after knotters shown above. Holes have been installed at the factory, however you need to remove bracket and cut 3/4" (19mm) off the bracket as indicated below to allow proper spacing for star wheel assembly.

Once complete, touch up with spray paint to prevent rusting and place the carriage bolts that mount the transition bracket back in original bracket mounting holes (A) before mounting star wheel assembly (C). Insert the 5/16" x 3-1/4" Allen head bolts (B) up through the transition bracket. Place the star wheel block over the nuts. Place twine guard on top of star wheel (D).



Note: Star wheel with 6 position plug and twine diverter with extra holes needs to be mounted on right side of baler.

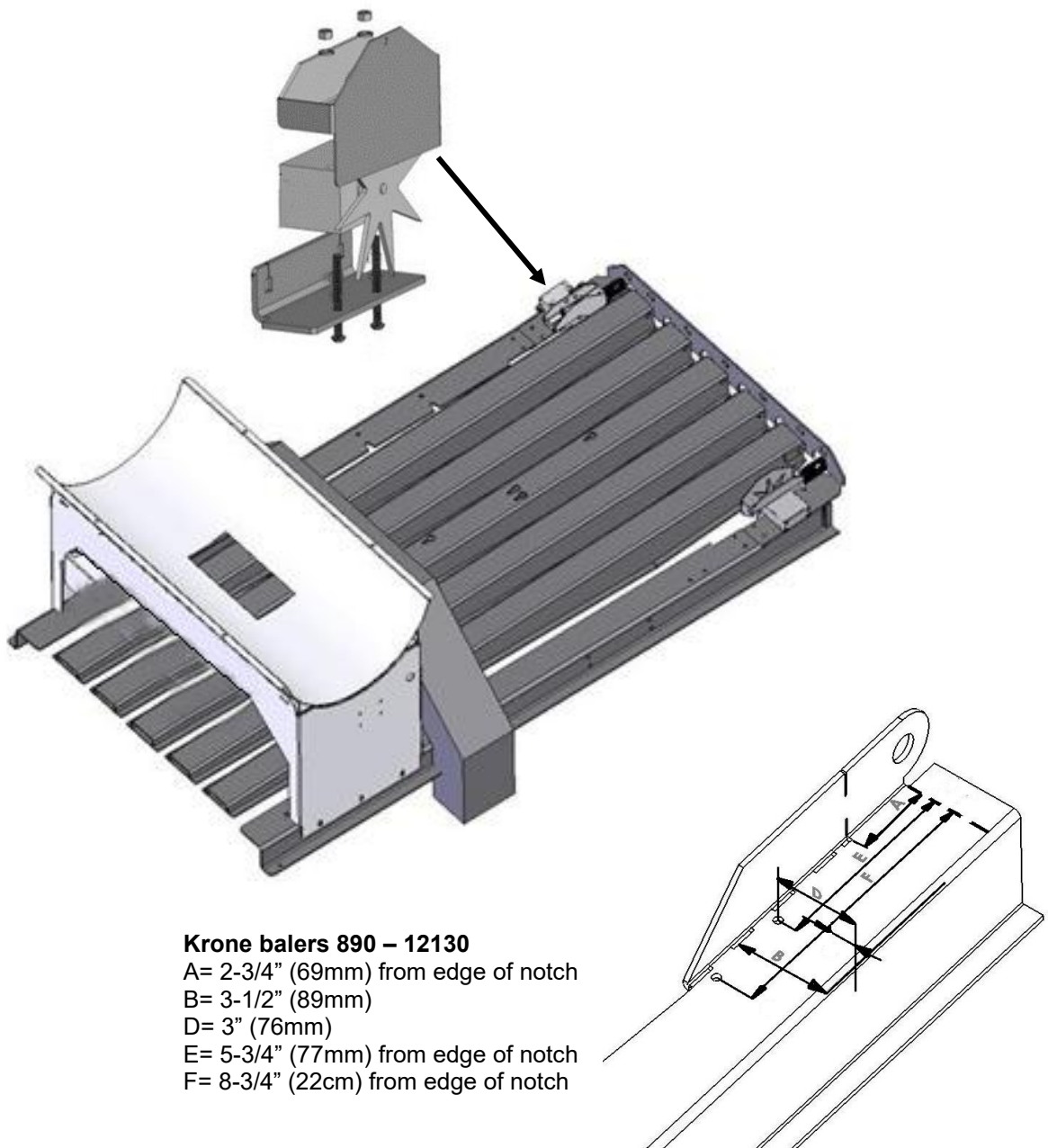
John Deere 100 Large Square Balers and Krone Balers

Star Wheel Mounting (All non-HDP models) remove the bale for the bale chute. The star wheels are to be mounted on top of the baler, just behind the knotters and as far forward as possible. Use the table and diagram below to mark the two bolt hole locations on the bale chamber (D, E, F). Use the star wheel mounting template to mark the location of the notch to be cut. When cutting the notch both the vertical brace and the bale chamber will need to be cut.

Before cutting verify the notch measurement with the below diagram using marks A & B. After cutting the notch and drilling the holes, insert the 5/16" x 3-1/4" black Allen head bolts up through the chute. Place spacer plate and star wheel block over the bolts and install the twine guards. Secure with 5/16" lock washers and nuts.

The twine guard containing the two extra holes will be placed on the right side. Ensure that the encoder star wheel turns in a clockwise rotation when bale is moving through the baler - reference rotation diagram sticker on star wheel.

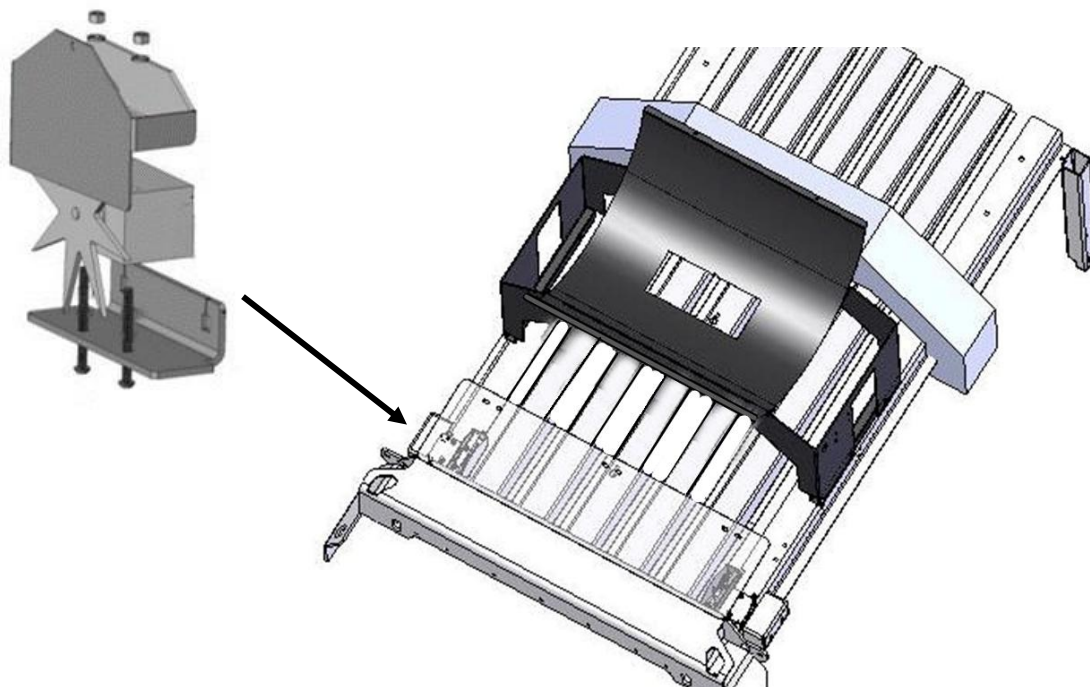
For 2010 Krone HDP part number 20 073 194 0 must be ordered. This kit will include mounting instructions for the star wheels.



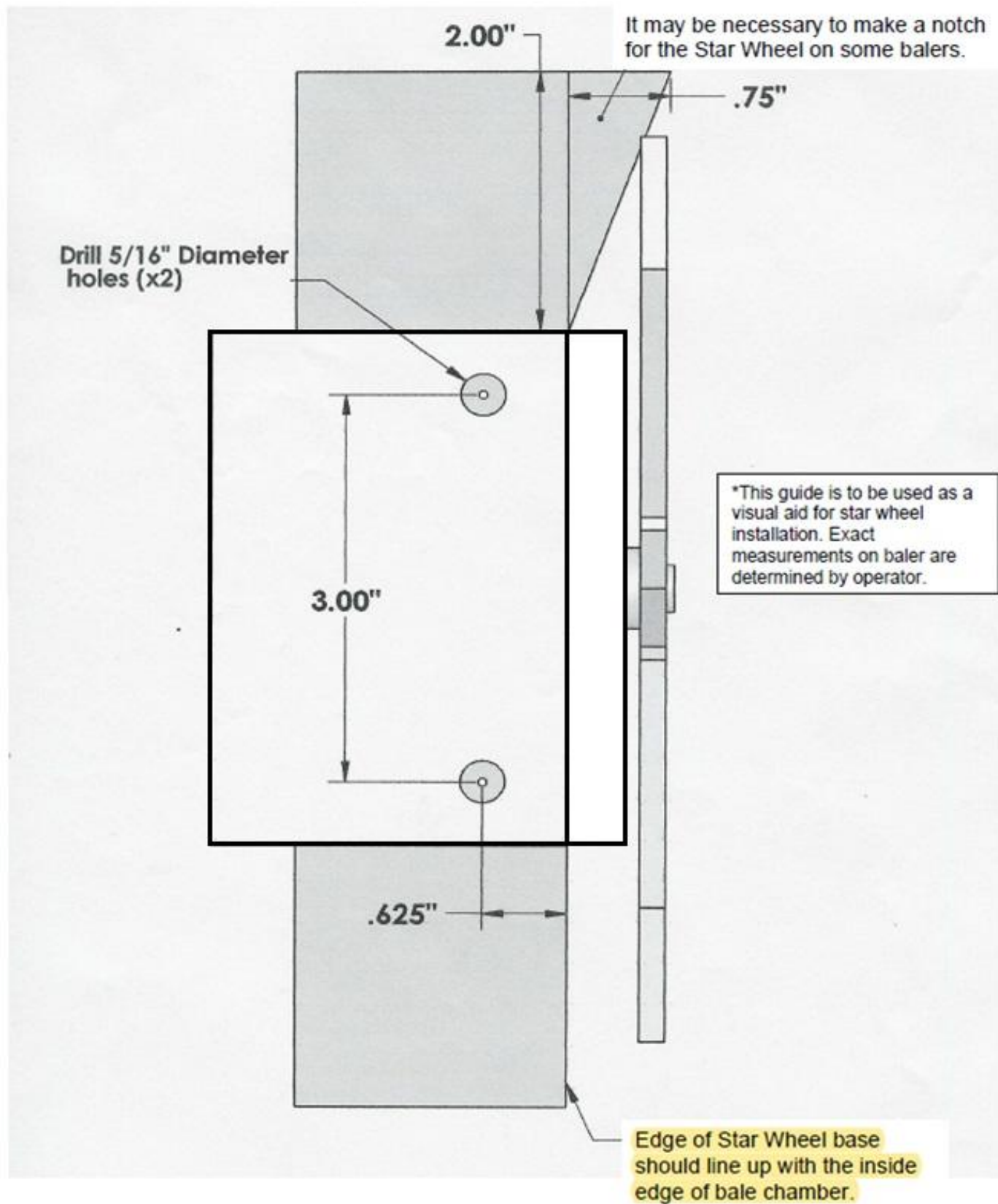
Kuhn LSB 870 – 1290; Vicon LB 8200 and LB 12200; Taarup 6570 – 6690 OC

The star wheels are to be mounted on top of the baler, just behind the knotters and under the walkway on both sides. Remove the bale from the chute, mount the star wheels flush with the back of the walkway with one star wheel on each side.

Use the star wheel template in the following pages for this installation. Mark the holes inside the chamber, and drill the two holes per side, for mounting from inside the chamber. Insert the 5/16" x 3-1/4" black Allen head bolts up through the chute. Place spacer plate and star wheel block over the bolts and install the twine guards. Secure with 5/16" lock washers and nuts. **The twine guard containing the two extra holes will be placed on the right side. Encoder Star Wheel (030-4642UE) with the 6-pin plug must rotate in a clockwise rotation while bale is moving through the bale chamber. See rotation decal on encoder star wheel block.**



Star Wheel Installation Guide

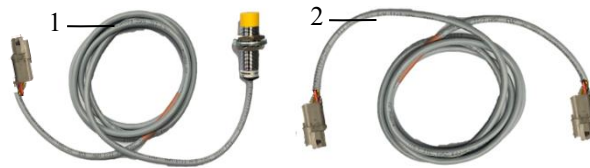


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End of Bale Sensor (EOB)

The End of Bale Sensor determines the position of the needles on the baler. When the needles cycle the sensor communicates this information to the controls. Installation of this sensor is required for use with the Harvest Tec job records. Reference "Sensor Settings" in Operation Manual. Follow the steps below for your baler to mount the sensor.

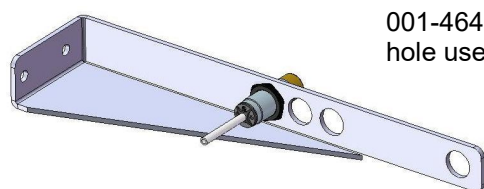
End of Bale Sensor



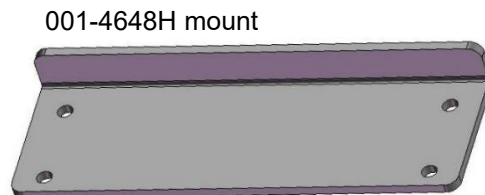
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	End of Bale Sensor	006-7401	1
2	End of Bale Ext.	006-7401EXT	1

AGCO/Hesston 4750-4755 and 4900-4910 (and Equivalent) Balers

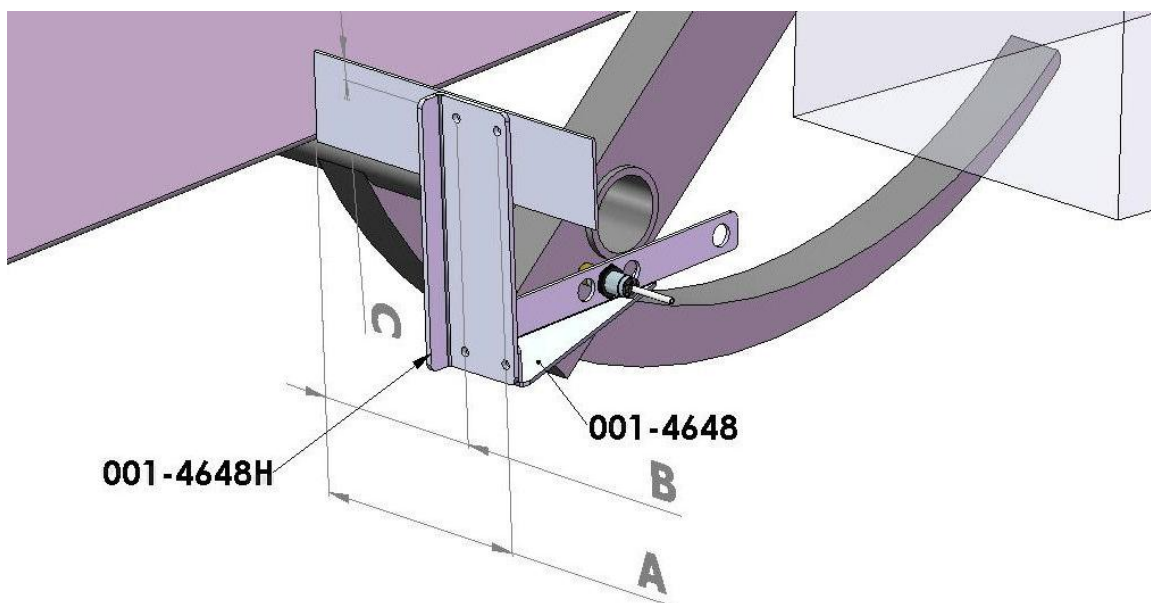
End of bale sensor bracket (001-4648) and Hesston end of bale mount (001-4648H) will be used. The Hesston end of bale mount will be found in the installation kit box. Cutoff excess metal not used during installation.



001-4648 with 6" (15cm)
hole used for sensor



001-4648H mount



001-4648H

001-4648

Sensor hole location
7" (18cm)

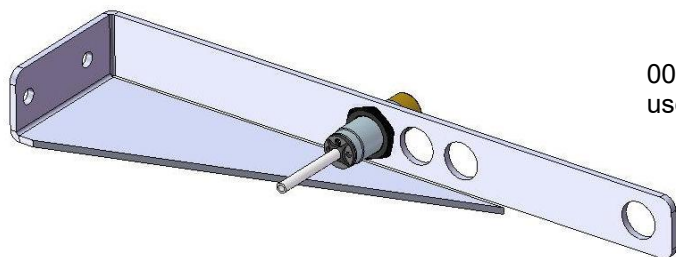
A	B	C
7-7/8" (20cm)	9-5/8" (25cm)	5/8" (16mm)

Attach the Hesston end of bale mount (001-4648H) as shown. Attach the end of bale sensor bracket (001-4648) to the Hesston end of bale mount (001-4648H) using two 1/4" x 1" bolts, locks & flat washers, and hex nuts. Align the brackets and mark the two 3/8" (10mm) holes to be drilled. Attach the brackets to the baler using two 5/16" x 1 self-tapping screws, and flange nuts.

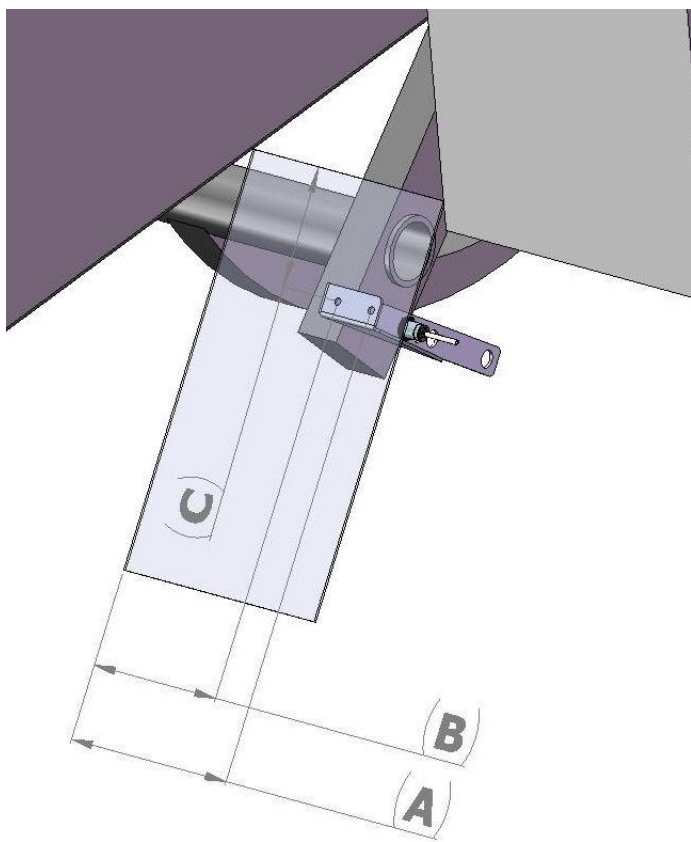
Mount the sensor in the 7" (18cm) hole location, keep the sensor 1/4" (7mm) from the needle and tighten both nuts. Cut off excess metal past the sensor. Run the sensor cable up to the main harness (006-765B2) and attach to port labeled EOB.

AGCO/Hesston 4760 and 4790 (and Equivalent) Balers

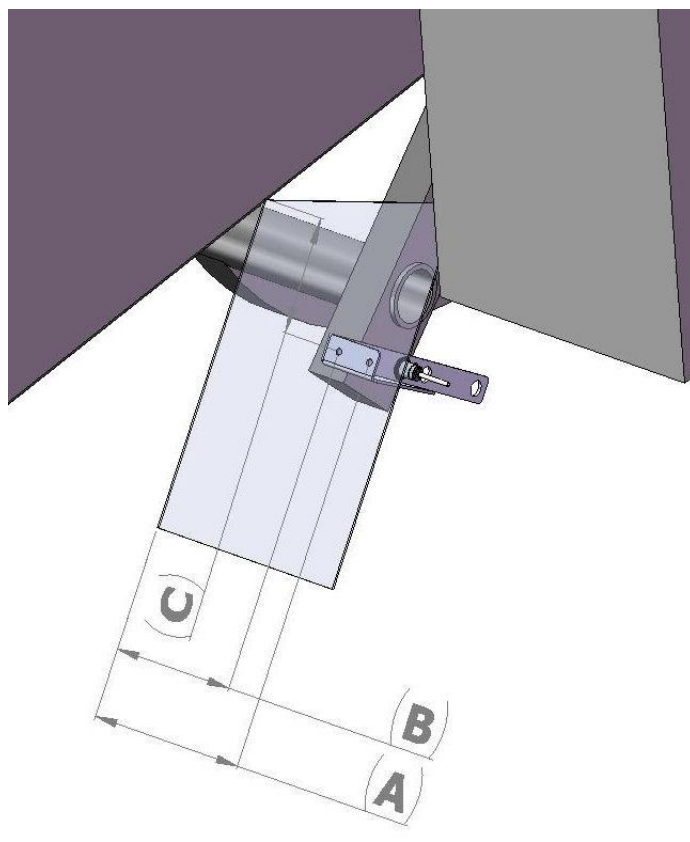
End of bale sensor bracket (001-4648) will be used. Cutoff excess metal not used during installation.



001-4648 with 6" (15cm) hole
used for sensor



Hesston 4760



Hesston 4790

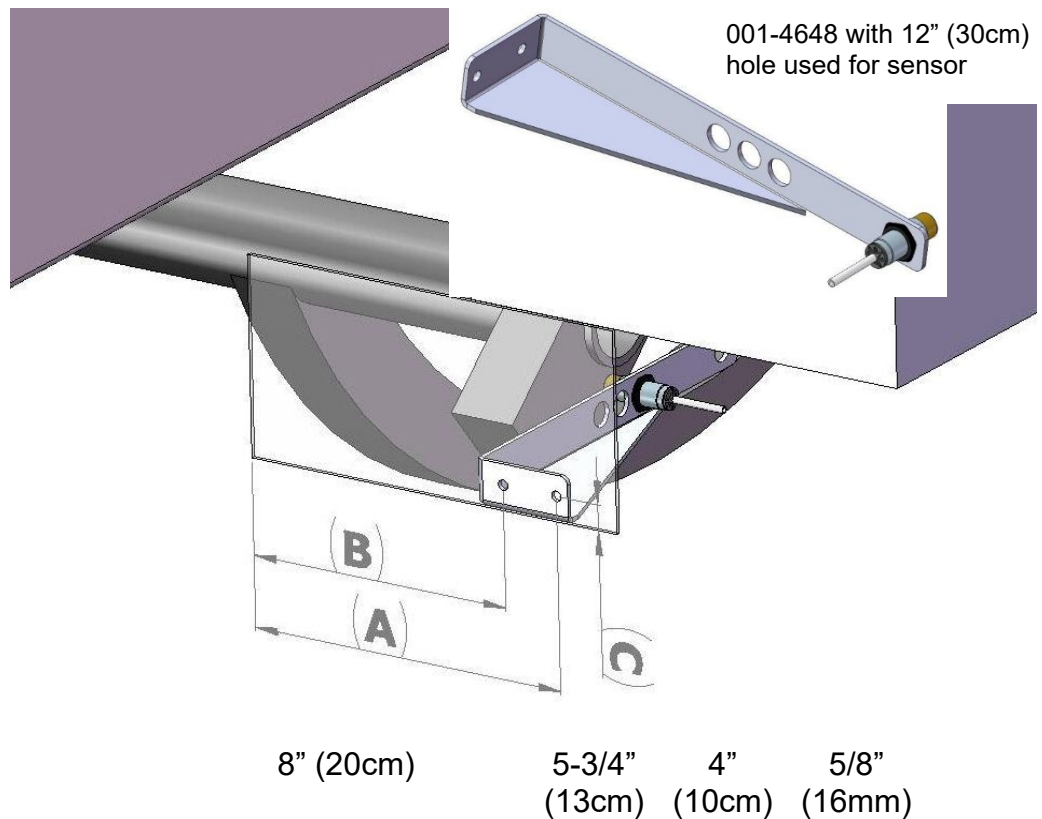
Baler	Sensor hole location	A	B	C
4760	6"	6-5/8"	4-7/8"	4"
4790	6"	4-5/8"	2-7/8"	3"

Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 6" (15cm) hole location, keep the sensor 1/4" (7mm) from the needle and tighten both nuts. Cut off excess metal past the sensor. Run the sensor cable up to the main harness (006-765B2) and attach to port labeled EOB.

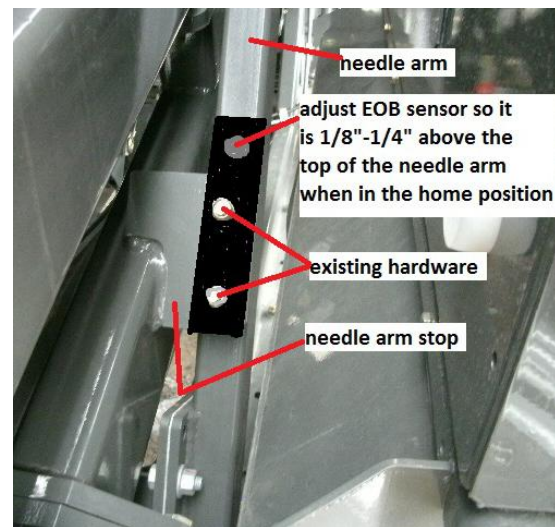
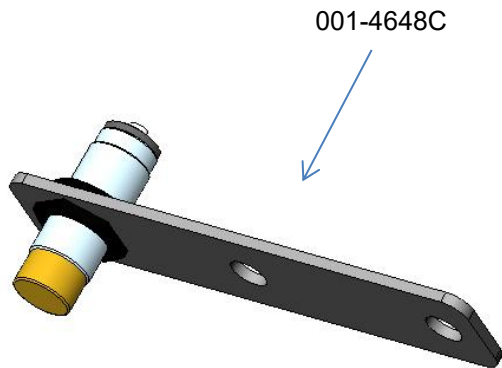
Claas 2100 Balers

End of bale sensor bracket (001-4648) will be used. Cutoff excess metal not used during installation.

Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" (10mm) holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 8" (20cm) hole location, keep the sensor 1/4" (7mm) from the needle and tighten both nuts. Cut off excess metal past the sensor. Run the sensor cable up to the main harness (006-765B2) and attach to port labeled EOB.

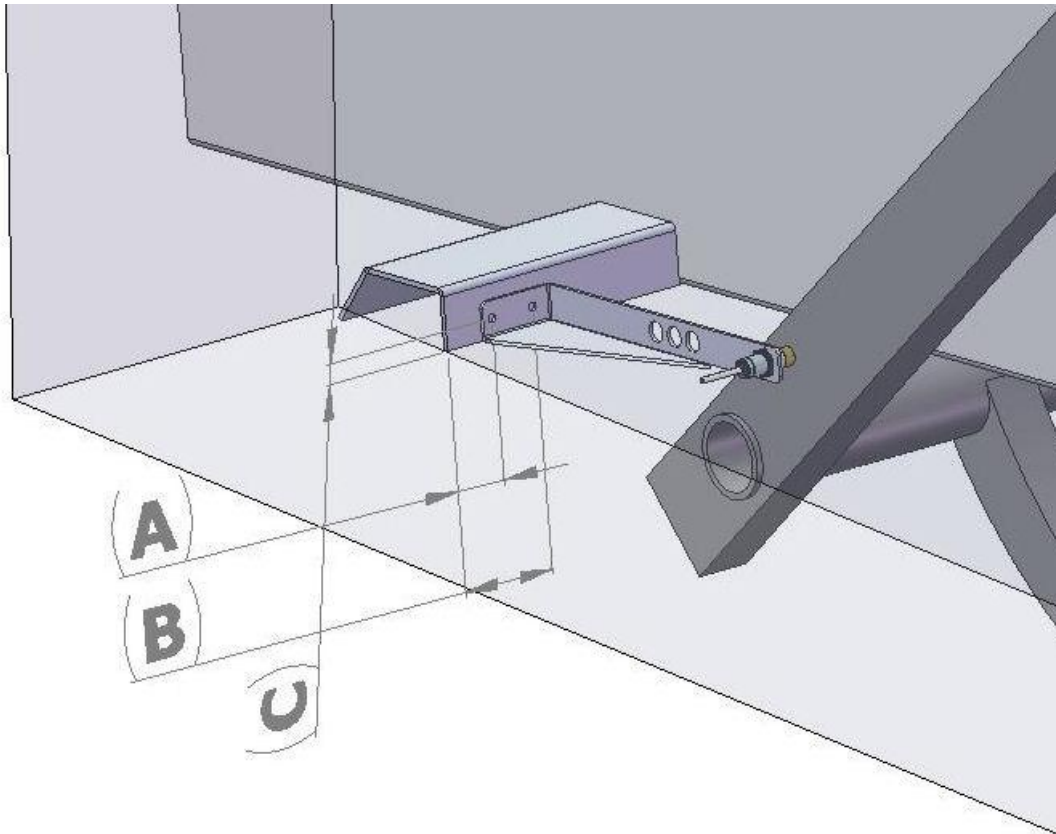
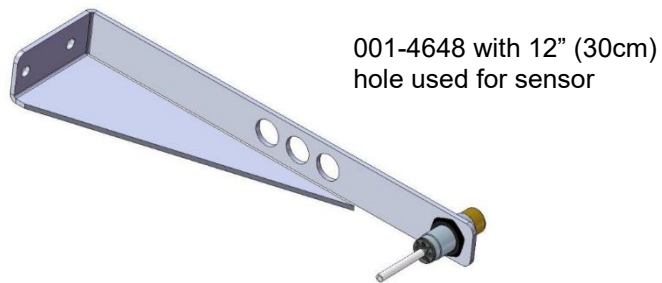


Claas 3200-3400 and 5300 Balers



The end of bale (EOB) sensor mounts in the EOB bracket (001-4648C) as shown in the picture. The EOB bracket is mounted to the top side of the needle arm stop using the existing hardware that secures the bumper to the stop.

**CNH Balers New Holland 590 – BB 960, BB 9060 – BB9080 &
Case IH LBX 331-431, LB 333-433**

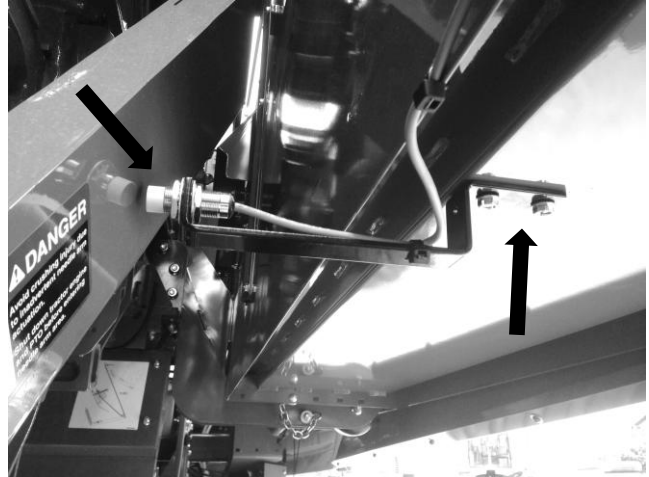
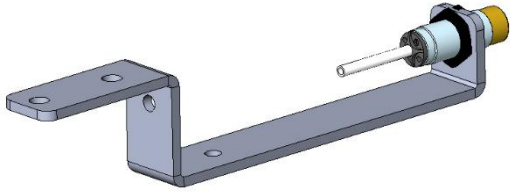


Sensor hole location	A	B	C
12"	2-7/9"	4-3/8"	5/8"

Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 12" hole location, keep the sensor 1/4" from the needle and tighten both nuts. Run the sensor cable up to the Precision Information Processor and secure to the baler.

John Deere L330/L340 and L331/L341

End of bale sensor bracket (001-4648J) will be used.

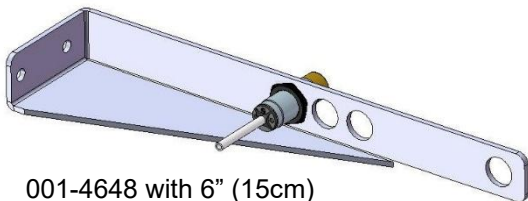


Mount the end of bale sensor bracket (001-4648J) as shown. Under the twine box mark and drill two 3/8" (10mm) holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Position the bolts so the bolt heads are inside the twine box, so they do not interfere with the twine. Mount the sensor in hole location centered alongside the needle arm, keep the sensor 1/4" (7mm) from the needle arm and tighten both nuts. Route the sensor wire along the bottom side of the twine box toward the twine box pivot point. Secure the wire to the twine box and around the pivot point to avoid damage to the wire. Once routed around the pivot point, connect the EOB sensor wire to the main baler harness (006-765B2).

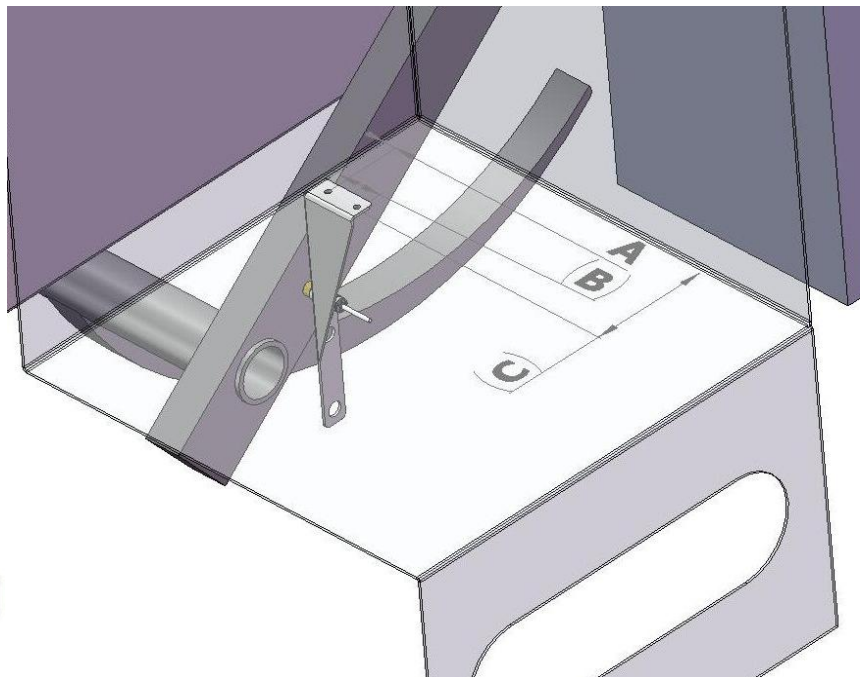
John Deere 100

End of bale sensor bracket (001-4648) will be used. Cutoff excess metal not used during installation.

Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" (10mm) holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 6" (15cm) hole location, keep the sensor 1/4" (7mm) from the needle and tighten both nuts. Cut off excess metal past the sensor. Run the sensor cable up to the main harness (006-765B2) and attach to port labeled EOB.



001-4648 with 6" (15cm)
hole used for sensor



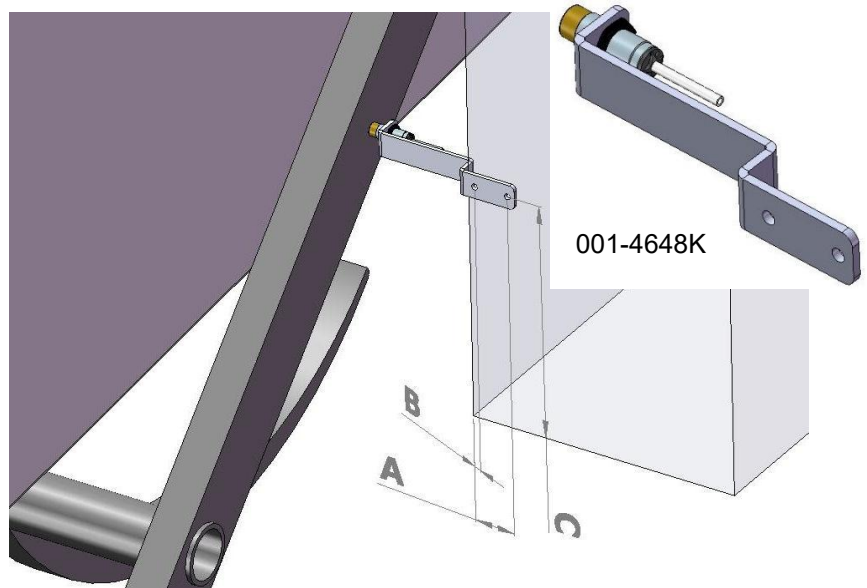
Sensor hole location
6" (15cm)

A	B	C
2-5/8"	7/8"	7"
(70mm)	(22mm)	(18cm)

Krone 890 – 1290 Balers

The Krone end bale mount bracket 001-4648K is used for most Krone balers and will be found in the installation kit box.

Mount the Krone end of bale sensor bracket (001-4648K) as shown for stationary twine boxes. The Krone mounting bracket can be found in the installation kit box. Mark and drill two 3/8" (10mm) holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor at the end of the bracket, keep the sensor 1/4" (7mm) from the needle and tighten both nuts. Run the sensor cable up to the main harness (006-765B2) and attach to port labeled EOB



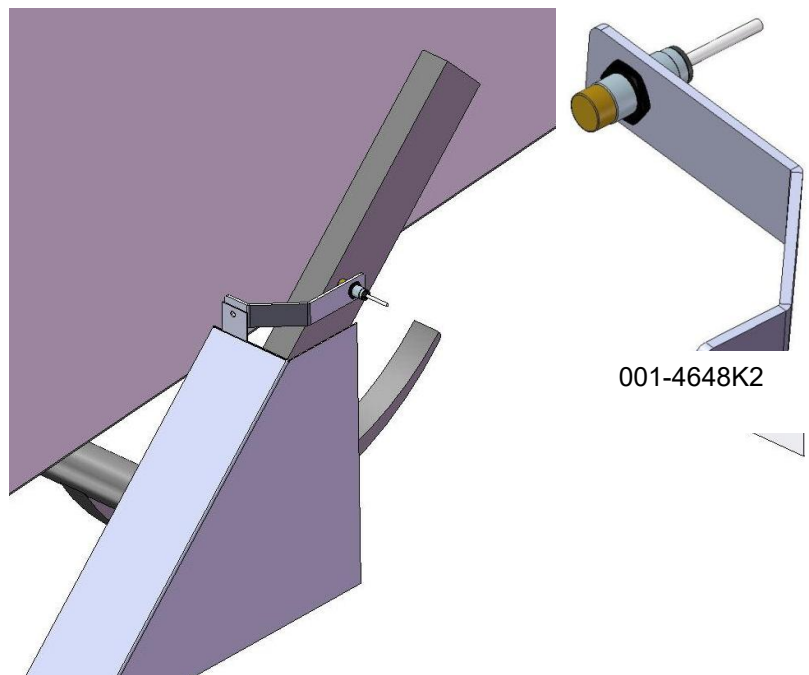
Sensor hole location	A	B	C
N/A	2-1/4"	1/2"	8"
	(65mm)	(13mm)	(20cm)

For non-stationary twine boxes, mount the EOB sensor on a stationary baler component that is clear of any moving parts. The EOB sensor should be placed and mounted for the main needle arm for multi-bale balers.

Krone 12130 Balers

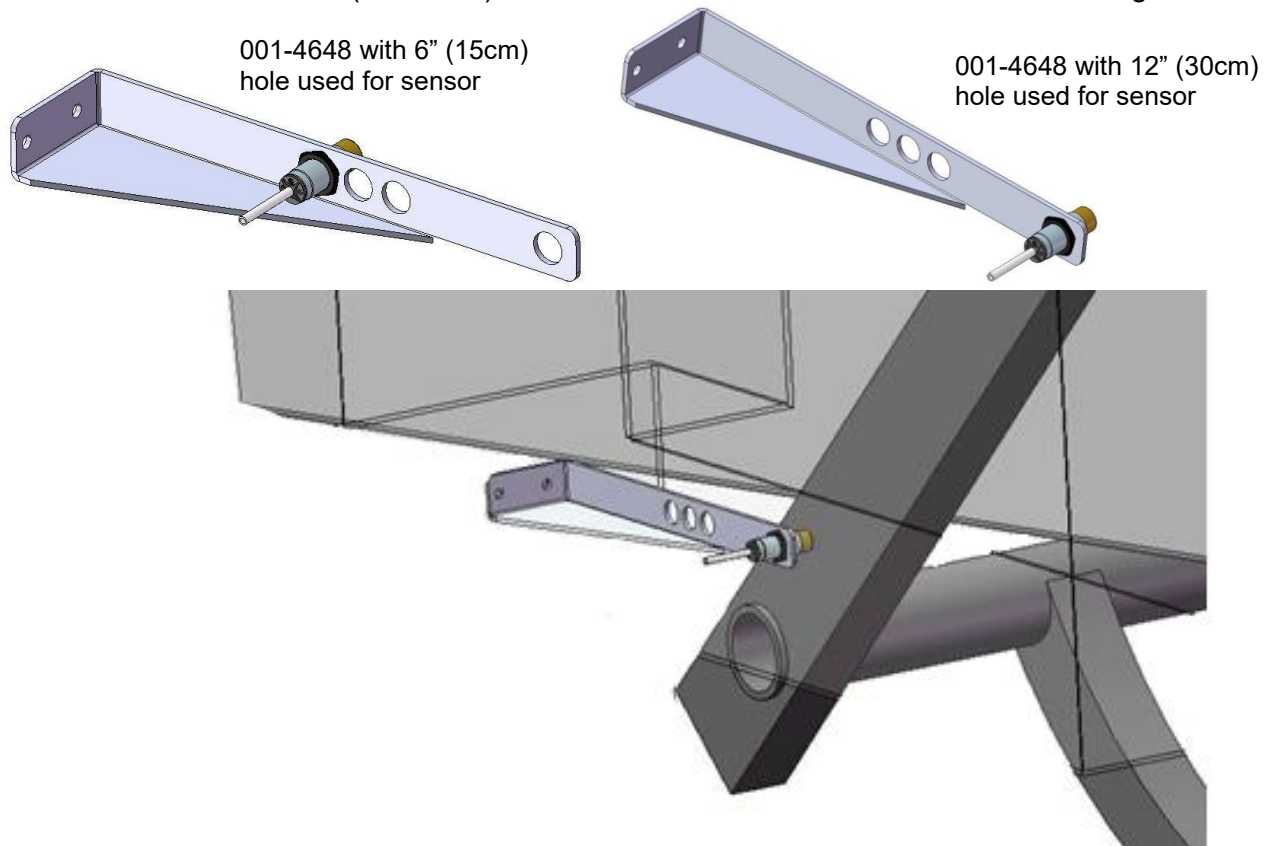
Krone end of bale sensor bracket (001-4648K2) is used. This bracket will be found in the installation kit box.

Mount the end of bale sensor bracket directly behind the twine box on the right side of the baler as shown. Remove the bolt and nut that secures the fiberglass baler shield to the baler. Mount the sensor bracket using the 3/8 x 1 bolt, lock and nut. Mount the sensor at the end of the bracket, keep the sensor 1/4" (7mm) from the needle and tighten both nuts. Run the sensor cable up to the main harness (006-765B2) and attach to port labeled EOB.



Kuhn, Vicon and Taarup Balers

End of bale sensor bracket (001-4648) will be used. Cutoff excess metal not used during installation.



Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in a hole location centered over the needle arm, keep the sensor 1/4" (7mm) from the needle and tighten both nuts. Run the sensor cable up to the main harness (006-765B2) and attach to port labeled EOB.

Main Wire Harness Routing and Connections



Route harness 006-765B2 along this path shown above (or similar) either on top of or inside of the baler from ISO Pump Module (IPM) located on the twine box to the hitch of the baler. Note: the end of the harness that has the large plug with sockets and the white heat shrink label, will be at the hitch of the baler. The other end attaches to the IPM. Keep harnesses away from moving parts and hydraulic hoses. Secure harness in suitable locations as needed.

Identification of plugs on 006-765B2:

Sol 1 and Sol 2. Plugs These attach to the solenoids with two 006-3650-S1 harness. Sol 1 attaches to the solenoid with a white dot. Sol 2 attaches to the solenoid with a blue dot. (Not used on moisture only systems)

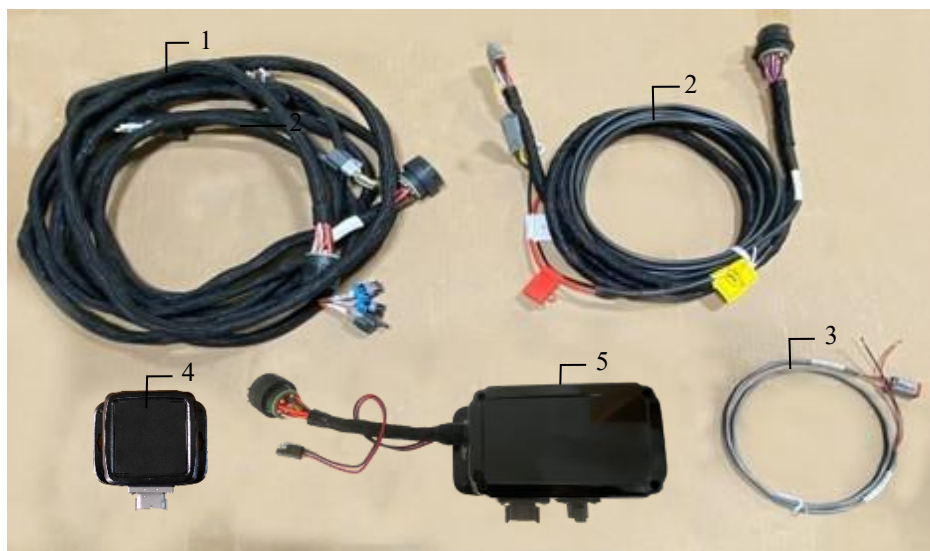
EOR Plug (end of row) is for the “Optional” crop eye kit. (474C, not used on moisture only systems)

CAN/IDM Plugs are for use with “Optional” Moisture Dye Marking kit. (740DM), ISOBUS integration with compatible balers, future expansion, or CAN termination.

EOB Plug is for the (end of bale) sensor that is attached by the needle arm.

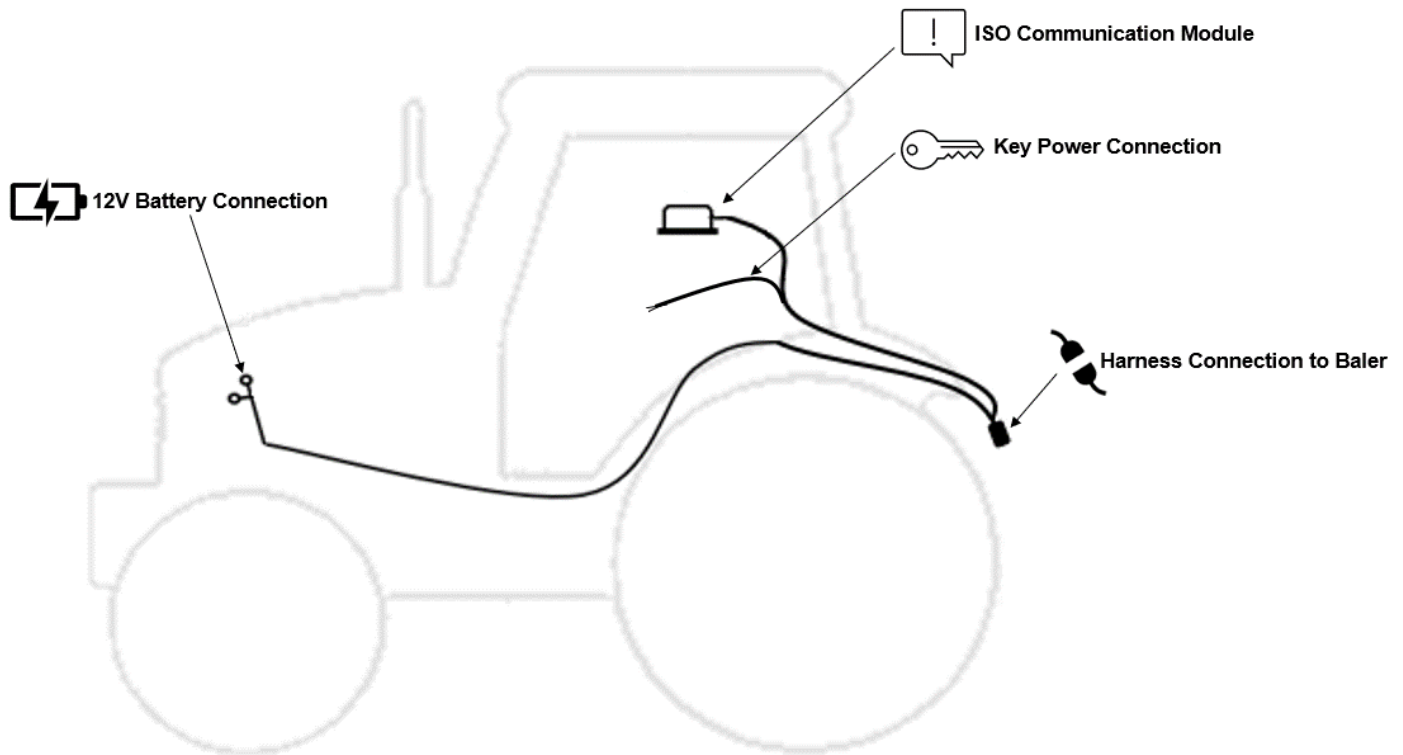
Secure with existing cable clamps or use cable ties when all connections are made.

Control Modules and Wiring Harnesses



Ref	Description	Part#	Qty	Ref	Description	Part#	Qty
1	Power Lead Baler 35'	006-765B2	1	NP	Baler Integration Harness	006-765VA	1
2	Power Lead Tractor	006-765IC	1				
3	Key Switch Wire	006-765CPH	1	NP	Baler Integration Extension (Required only for pre-2012 Agco Balers)	006-6650VAX	1
4	ISO Pump Module (IPM)	006-7671LS	1	NP	Baler Integration Harness (Krone Balers Only)	006-765VAK	1
5	ISO Communication Module (ICM)	006-6673	1	NP	Baler Integration Harness (Krone Gen. 5 Balers Only)	006-765VAK2	1
NP	Dust Plug Kit	006-765DP	1				
NP	120 Ohm Resistor (For use as non-ISO integrated units)	006-700R		NP	USB-C to USB-A Comm.Cable (Optional use for tablet connection)	006-6672USBX	

Tractor Setup



The general tractor setup of the 700 Series applicator can be seen above. The main harness of interest is the tractor power/communication harness (006-7651C). This harness will connect at the tractor battery, to the ISO Communication Module (ICM) mounted in the cab, a keyed power connection point, and connect at the hitch area to the baler power/communication harness (006-765B2). View below to see highlighted installation instruction:



12V Battery Connection

The 12V battery connection must be at the tractor battery. Connection to alternative locations such as an accessory port can cause problems with applicator system.

MUST BE CONNECTED DIRECT TO TRACTOR BATTERY TERMINALS



ISO Communication Module

The ISO communication module is to be mounted inside the cab. Other mounting locations can lead to issues with weathering and operation. Once installed and the system is powered, a green light will turn on with the ICM module.



Key Power Connection

Ensure a solid keyed connection is found inside the cab and wired into. Poor keyed power connection can result in applicator system issues.



Harness Connection to Baler

The tractor harness connects at the hitch to baler power/communication harness (006-765B2). This will allow the system components to communicate with one another. Ensure connections are debris and corrosion free.

Display Options

Optional Harvest Tec Display



The 700 series Harvest Tec Display will allow you to set your real time baling parameters to ensure the most precise application to every bale. This is done by utilizing the improved touch technology to select objects, enter data, and swipe through operational screens.

The Harvest Tec Display offers easy integration by connecting to the additional CAN plug on the 006-765IC harness. Once, connected the Harvest Tec display will power up with applicator system.

Note: The Harvest Tec Display must be used as a standalone display, the baler cannot run both integrated and on the Harvest Tec Display. Must be one or the other. Removal of the 006-765VA or integration harness is required when equipped.

Optional Tablet Display



The iOS or Android Tablet displays offer the ability to communicate with the 700 series applicator system via hard-wired connection to the ISO Communication Module (ICM). Through the free Precision Baling App, the operator can set real time baling parameters to ensure the most precise application to every bale.

This provides a multi-use option while utilizing the improved app to select objects, enter data, and easily switch through operational screens. The Tablet Display offers easy integration by connecting a charging cable to the USB port on the ICM module. Once connected the Harvest Tec applicator will display upon opening the app and powering up the applicator system. Tablets can be used in addition to integrated baler VT display.

***Made for iPad®**

Required to be running the most current operating system or one version previous.

*iPad is a trademark of Apple Inc., registered in the U.S. and other countries.

Optional Harvest Tec Display Kit (030-7670DK)



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Suction Cup Mount	001-2012SCM	1
2	Ram Mount	001-2012H	1
3	Harvest Tec Display	006-765GVT	1
4	Display Harness	006-765GH	1
5	Mounting Plate	001-700GH	1
NP	700 Series Resistor	006-700R	1

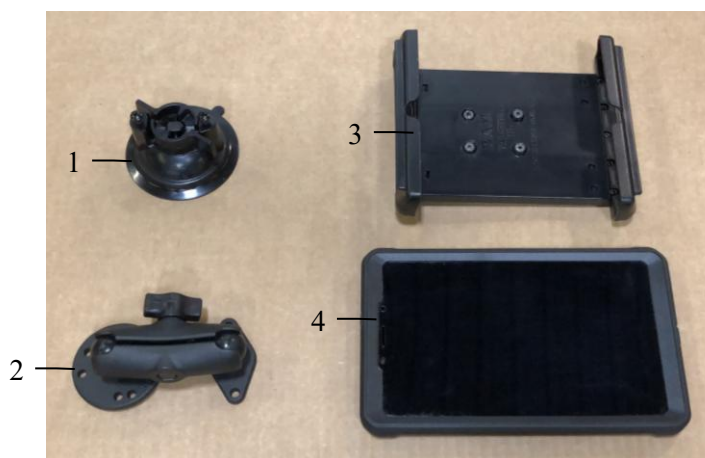
Complete HT Display Kit 030-7670DK

Installation Instructions

1. Connect 006-765GH harness connection to 006-765IC tractor harness key power plug.
2. Connect 006-765GH harness to the Harvest Tec VT Display before tightening mount in place.
3. Tighten the mounting and display. Streamline harness as necessary.
4. Once connected, power cycle the system and ensure display is working properly.

NOTE: CANNOT OPERATE APPLICATOR SYSTEM WITH HARVEST TEC DISPLAY AND BALER ISO INTEGRATION or TABLET/ iPad AT THE SAME TIME.

Optional Android Display Kit (030-1670DK)

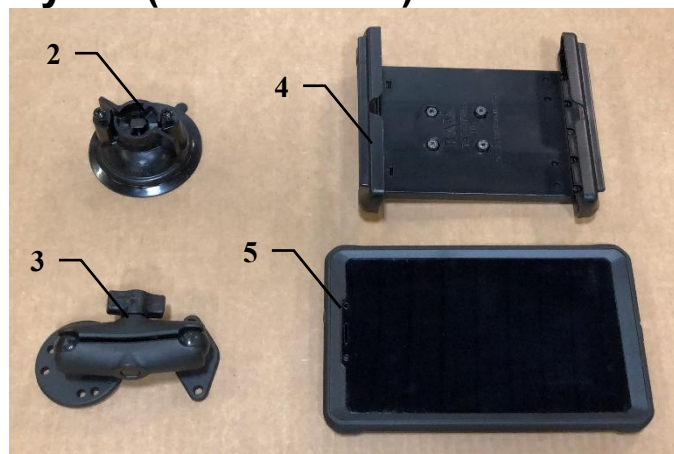
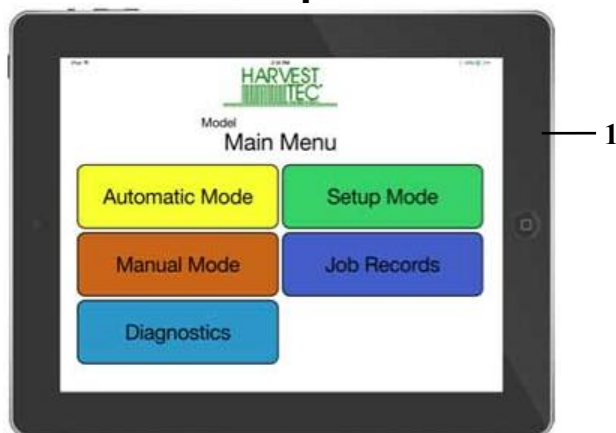


Ref	Description	Part #	Qty
1	Suction Cup Mount	001-2012SCM	1
2	Ram Mount	001-2012H	1
3	Spring Load Cradle	001-2012SLC	1
4	Android Case	001-2012A1	1
5	Android Tablet	006-1670AT	1
NP	USB-C to USB-A Cable	006-6672USBX	1

Complete Android Tablet Display Kit 030-1670DK

Note: Use a quality communication cable ending with a USB-A connection to connect tablet to (006-765ICM) control module - plug into the USB port showing a tablet.

Optional iPad Display Kit (030-6670DK)



Ref	Description	Part #	Qty
1	iPad Mini 6	006-6670IP	1
2	Suction Cup Mount	001-2012SCM	1
3	Ram Mount	001-2012H	1
4	Spring Load Cradle	001-2012SLC	1
5	iPad Mini 6 Case	001-2012C6	1
NP	Power/Comm. Cable	006-6672USBX	1

Complete iPad Mini Display Kit 030-6670DK

iPad mini is a trademark of Apple Inc., registered in the U.S. and other countries

Optional ISO Display Adapter Harness (006-7670A or 006-7670F)

For use with a dedicated ISO display

The 700 Series Applicator has the option to tie into compatible dedicated ISO monitors by utilizing the diagnostic port. When connected, the Harvest Tec System will populate as its own object pool within the ISO display. When this object pool is selected, the ISO monitor will then function as a dedicated monitor for the Harvest Tec System.

**The Harvest Tec System will function as a stand-alone system when using this adapter.
System will not integrate with the baler ISO system software when using this adapter.**

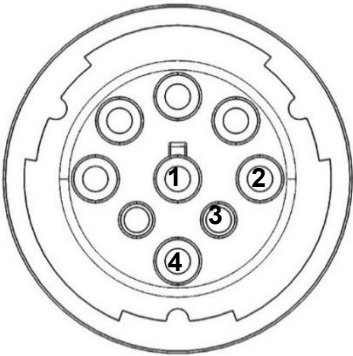
Any tablet connected to the ICM module must be disconnected from the ICM before the Harvest Tec Object Pool screen will activate within the ISO display.
To connect Adapter Harness (006-7670A or 006-7670F), unplug the 4-pin Key Power Plug (006-765CPH) connection from the Tractor Harness (006-765IC) and replace with the plug from the Adapter Harness. Connect the round plug end of the Adapter Harness to the Tractor ISO Display Diagnostic port.

Scan the QR code to view a short video of the Adapter Harness for ISO Display:

For additional product and service information:
See our YouTube Channel <https://www.youtube.com/@harvesttec>



ISO Diagnostic Port Adapter (006-7670A)

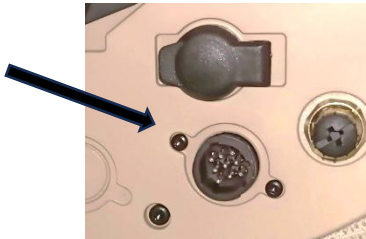
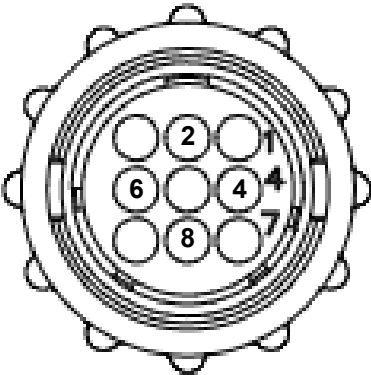


006-7670A connecting plug and pin out

Pin 1	Black	Ground
Pin 2	Yellow	CAN High
Pin 3	Green	CAN Low
Pin 4	Red	12V+ Key Power

ISO Diagnostic Port Adapter (006-7670F)

For Newer Fendt and MF Tractors with plug location in the cab ceiling



006-7670F connecting plug and pin out

Pin 8	Black	Ground
Pin 4	Yellow	CAN High
Pin 2	Green	CAN Low
Pin 6	Red	12V+ Key Power

Wiring Diagram – 700 Series LS Moisture Only

1. Connect the power harness (006-7651C) to the tractor battery (12 volt) using the red wire with fuse to the positive side and the black wire to the negative.



A. The power harness must be connected to the battery!

CONTACT HARVEST TEC BEFORE MODIFICATIONS.

The unit will draw more amps than convenience outlets can handle. Any modifications of the power harness will void systems warranty

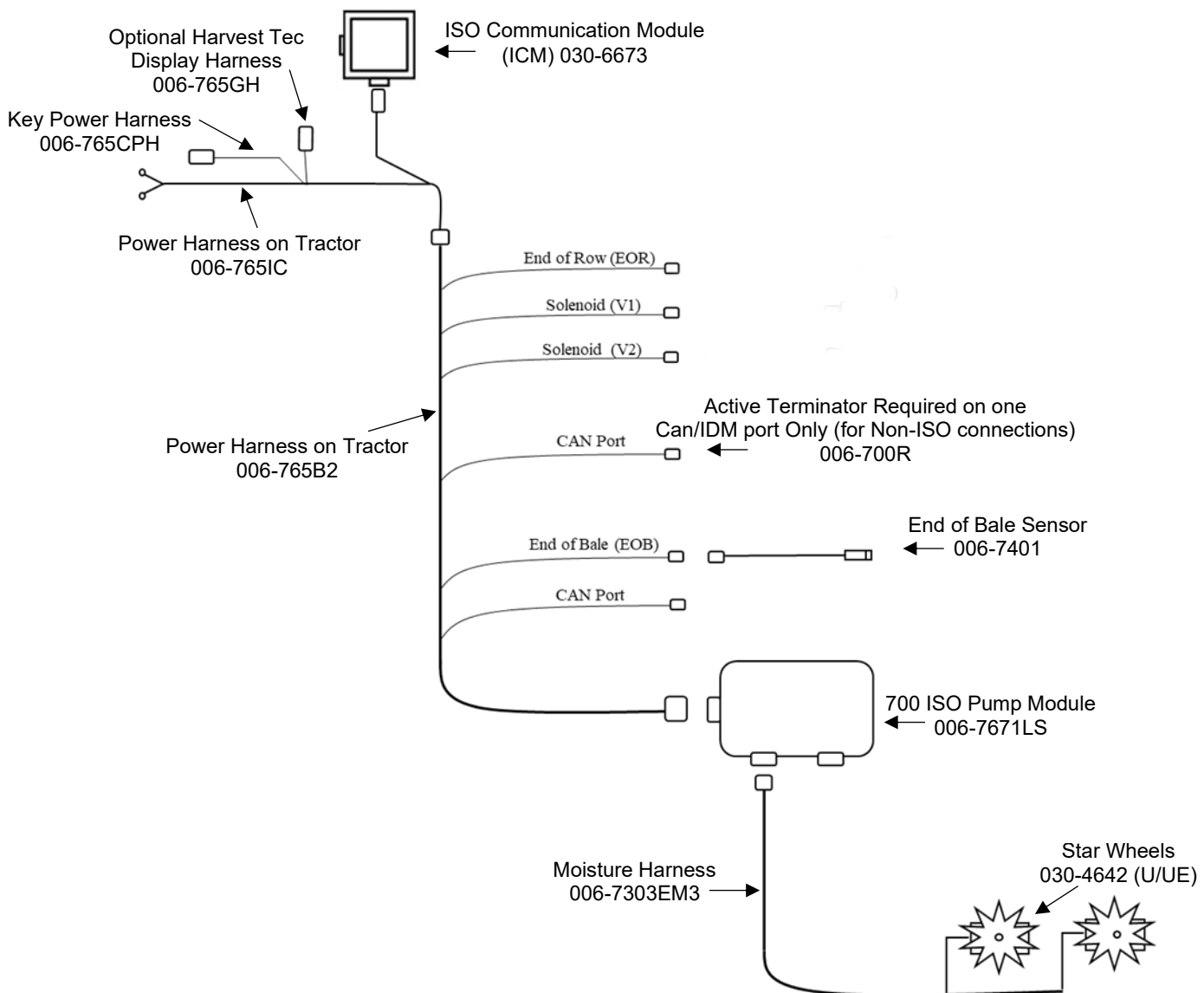
B. This unit will not function on positive ground tractors.

C. If the unit loses power while operating it will not keep track of accumulated pounds of product used.

2. The power harness on the tractor (006-7651C) will run from the tractor battery to the hitch. The power harness on the baler (006-765B2) will connect to the tractor power harness (006-7651C) at the hitch.
3. Connect the keyed power wire (006-765CPH) to a keyed power source on the tractor.

The keyed power wire must connect to a keyed source or the unit will not power up correctly.

4. Attached the ISO Communication Module (006-6673) to the tractor power harness (006-7651C).
5. Attach the End of Bale (EOB) connection on baler harness (006-765B2) to the EOB Sensor (006-7401).
6. Attach star wheel (030-4642U/UE) to moisture harness (006-7303EM3) and connect to post on the IPM.

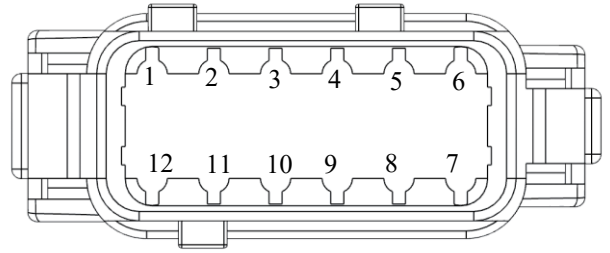


Pin Outs

Integrated Control Module (ICM) on Tractor Harness 006-765IC

(Deutsch Plug Number: DTM06-12SA)

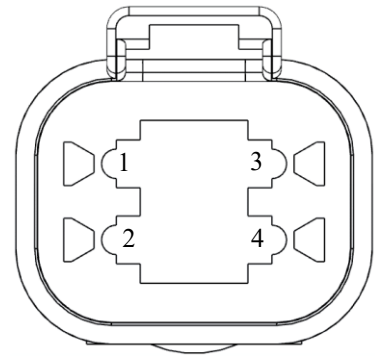
Pin 1	Red	+12V from ECU
Pin 2	Purple	Signal Wire
Pin 3	Red/White	+12V CAN X
Pin 4	Black/White	Ground CAN X
Pin 5	Orange	CAN X Hi
Pin 6	Blue	CAN X Lo
Pin 7	Green	ISO CAN Lo
Pin 8	Yellow	ISO CAN Hi
Pin 9	White	GPS Expansion 1
Pin 10	Gray	GPS Expansion 2
Pin 11	Brown	GPS Expansion 3
Pin 12	Black	Ground from ECU



ISOBUS Plug on Tractor Harness 006-765IC

(Deutsch Plug Number: DT04-4P)

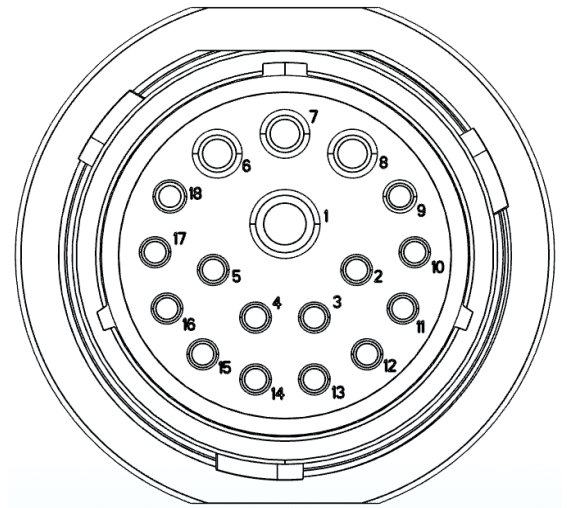
Pin 1	Red	+12V from ECU
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Black	Ground from ECU



Power / Communication Tractor Harness 006-765IC at Baler Hitch

(Deutsch Plug Number: HDP24-24-18PN)

Pin 1	Not Used	----
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Red	+12V Power to ECU
Pin 5	Black	Ground to ECU
Pin 6	Red	+12V From Battery
Pin 7	Not Used	----
Pin 8	Black	Ground From Battery
Pin 9	Not Used	----
Pin 10	Purple	Signal Wire
Pin 11	Red/White	+12V CAN X
Pin 12	Black/White	Ground CAN X
Pin 13	Orange	CAN X Hi
Pin 14	Blue	CAN X Lo
Pin 15	White	GPS Expansion 1
Pin 16	Gray	GPS Expansion 2
Pin 17	Brown	GPS Expansion 3
Pin 18	Not Used	----

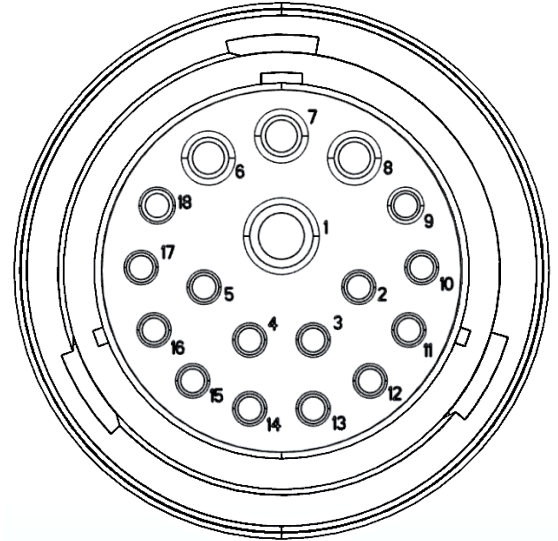


Pin Outs (continued)

Power / Communication Baler Harness 006-765B2 at Baler Hitch

(Deutsch Plug Number: HDP26-24-18SN)

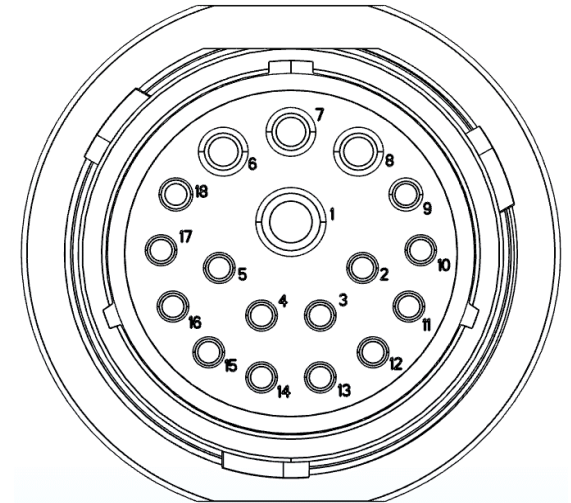
Pin 1	Not Used	----
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Red	+12V Power to ECU
Pin 5	Black	Ground to ECU
Pin 6	Red	+12V From Battery
Pin 7	Not Used	----
Pin 8	Black	Ground From Battery
Pin 9	Not Used	----
Pin 10	Orange/White	+12V Power to EOR
Pin 11	Not Used	----
Pin 12	Not Used	----
Pin 13	Not Used	----
Pin 14	Not Used	----
Pin 15	Not Used	----
Pin 16	Not Used	----
Pin 17	Not Used	----
Pin 18	Not Used	----



Power / Communication Baler Harness 006-765B2 at IPM Module

(Deutsch Plug Number: HDP24-24-18SN)

Pin 1	Not Used	----
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Red	+12V Power to ECU
Pin 5	Black	Ground to ECU
Pin 6	Red	+12V From Battery
Pin 7	Not Used	----
Pin 8	Black	Ground From Battery
Pin 9	Not Used	----
Pin 10	Orange/White	+12V Power to EOR
Pin 11	Orange/Black	Ground to EOR
Pin 12	Purple/Green	EOR Signal
Pin 13	Blue/White	EOB Signal
Pin 14	Gray/Red	+12V Power to Solenoid 1
Pin 15	White/Black	Ground to Solenoid 1
Pin 16	Orange/Red	+12V Power to Solenoid 2
Pin 17	White/Black	Ground to Solenoid 2
Pin 18	Not Used	----



Solenoid 1 Plug on Baler Harness 006-765B2

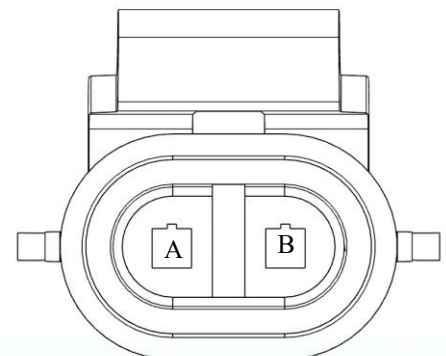
(Deutsch Plug Number: APTIV 12052641)

Pin B	Gray/Red	+12V to Solenoid 1
Pin A	White/Black	Ground to Solenoid 1

Solenoid 2 Plug on Baler Harness 006-765B2

(Deutsch Plug Number: APTIV 12052641)

Pin B	Orange/Red	+12V to Solenoid 2
Pin A	White/Black	Ground to Solenoid 2

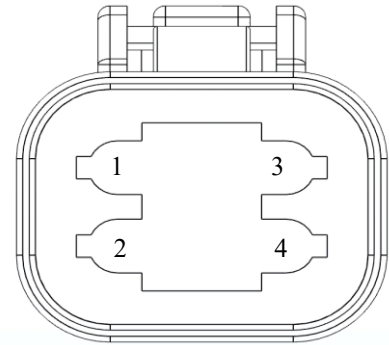


Pin Outs (continued)

CAN / IDM on Baler Harness 006-765B2

(Deutsch Plug Number: DT06-4S)

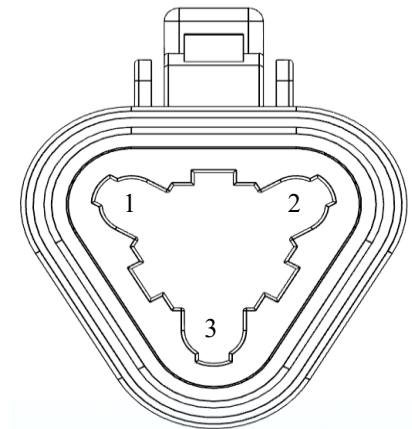
Pin 1	Red	+12V to ECU
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Black	Ground to ECU



End of Bale Sensor Plug on Baler Harness 006-765B2

(Deutsch Plug Number: DT06-3S)

Pin 1	Orange/White	+12V to End of Bale Sensors
Pin 2	Orange/Black	Ground to End of Bale Sensors
Pin 3	Blue/White	Signal



End of Row Sensors Plug on Baler Harness 006-765B2

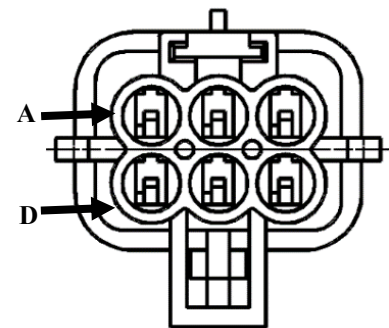
(Deutsch Plug Number: DT06-3S)

Pin 1	Orange/White	+12V to End of Bale Sensors
Pin 2	Orange/Black	Ground to End of Bale Sensors
Pin 3	Blue/White	Signal

Integration Harness Plug on Baler Harness 006-765B2

(Plug: APTIV 12052848)

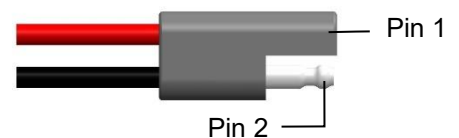
Pin A	Not Used	----
Pin B	Red	TBC Power
Pin C	Not Used	----
Pin D	Gray	TBC Ground
Pin E	Orange	CAN Hi
Pin F	Blue	CAN Lo



Pump Connection on 700 Controller Harness

(16 AWG Two-Wire Plug)

Pin 1	Red	Power to Pump
Pin 2	Black	Ground to Pump



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 manufactured product 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 1/24

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