Hay Preservative and Applicator Systems for Hay Balers
Applicators/Moisture Sensors

No matter what baler you use, there is a model of Harvest Tec applicator for your implement. Paired with John Deere’s GREEN-GARD hay preservative you’ll have the most efficient, advanced, and easy to use application system on the market.

Efficient design with you in mind
Tanks and saddles have been engineered to mount on all John Deere balers so they are easy to reach and fill, yet out of the way.

Better bales with the right application equipment
Greener hay with high feed value is the ultimate goal of every smart producer. All it takes is the right application system. Harvest Tec applicators are available for any John Deere baler, and allow the operator to apply preservative efficiently and effectively to match hay conditions. Large or small, our application process means your crops are baled at the highest quality possible, with minimal product waste.

Large square balers
GREEN-GARD hay preservative is formulated with the large hay producer in mind. Bales produced between 16% and 27% moisture will not heat and will maintain their high quality, smell and appearance when treated with GREEN-GARD.

Round balers
Hay can be baled with GREEN-GARD at moistures up to 30% with a round baler, extending the hours of operation. Although no preservative product can reduce outside weathering, GREEN-GARD can preserve the quality of the inside.

Small square balers
GREEN-GARD enables hay to be baled at moistures up to 30% with small square balers. Get out in the fields early, even on cloudy days, and work later in the evenings when the dew is heavier.
Moisture doesn’t stand a chance

Sensors in the automatic applicators accurately sense moisture levels on round, large or small square balers. A positive sensor is mounted on one side with an isolated ground mount on the other side. When the bale makes contact, a current passes through it, measuring moisture from one side to the other. This results in a moisture reading that is accurate to within one point.

Large Square Balers

Automatic systems for large square balers are equipped with star wheels that mount on the top of the bale chute. Accurately reads moisture from 8% to 70%.

Round Balers

Automatic systems for round balers are equipped with two sensing discs, one mounted on each of the balers sidewalls. Reads moisture from 8% to 60% on 300 and 600 series systems. US Patent 8,860,443

Small Square Balers

Sensors for the automatic system on small square balers consist of two star wheels that mount on the bottom of the bale chute. Reads moisture from 8% to 32% on 300 and 600 series systems.

Pumping System & Spray Shields

600 Series Automatic systems are equipped with three pumps and a built-in flowmeter, and the 300 Series Automatic systems have a single pump with pulsing solenoid. As the hay moisture fluctuates, the system adjusts turns on the pumps needed to apply the right amount of preservative on the go.

The electronic applicator consists of a single pump and gauge. The pumping rate is increased or decreased by manually adjusting the control box in the cab.

Consistent preservative coverage throughout the crop is critical. Each baler model has a spray shield designed to fit specifically in the pick-up area, to assure complete and accurate coverage.
An automatic system creates exceptional bales

The automatic applicators work as you go, applying the right amount of preservative at the right time, based on moisture levels. You can bale faster and complete more tonnage while tracking the volume of preservative used. Application units attach to the John Deere large square balers, small square balers, and round balers.
Automatic Controls for large square balers

600 Series

The new 600 Series Automatic Applicator System for large square balers makes baling quality hay easier and more efficient. Features include:

- ISOBUS compatible
- Records bale information and job records
- Ability to export job records to an iPad
- Provides capacity to add on additional features such as Harvest Tec tagger, dye sprayer, bale weight information and GPS
- Applicator can be controlled through baler ISOBUS, customer's iPad.

If a baler or tractor is not equipped with an ISOBUS monitor, the operator also has the option of using their own iPad or iPad mini with the addition of a Bluetooth receiver. Any one of these options give the operator complete control and provides information for any baler equipped with the automatic applicator. The baler monitor and iPad display:

- Moisture content
- Speed of baling (tonnage) on large square and small square balers
- Volume of preservative used per bale
- Target application rate and actual application rate
- Total tons baled

Automatic Controls for Round and small square balers

300 Series

The new automatic system for round and small square balers. Consisting of a redesigned and compact processor, and a single bypass pump that supplies constant pressure to a pulsing solenoid, it is an improvement in efficiency and response time for applying preservative. The operator has the option of running the applicator through their own iPad* or iPad mini via Bluetooth for a clear, colorful display. The automatic system is able to store up to 60 job records by field name with total tons baled, average high moisture, date and time, and amount of preservative used.

300 & 600 series monitors display:

- Moisture content
- Speed of baling (tonnage)
- Volume of preservative used per bale
- Target application rate and actual application rate
- Total tons baled

600 Series

The 600 Series Automatic Applicator System for round and small square balers makes baling hay and keeping track of bales virtually effortless. The system continuously monitors moisture readings and rate of baling and automatically adjusts application rates. It also features a USB port on the side of the processor, which allows job records to be downloaded onto a personal computer. The system on small square balers has a built-in stroke counter to help the operator create a more consistent bale by monitoring the number of flakes per bale. When equipped with Bluetooth and an iPad, the operator can export job records direct to their iPad.

*Requirements to run iPad are 3rd Generation iPad (2012 or newer) with iOS 8 or greater operating system, plus Harvest Tec App.
Innovation that works for large balers

Automatic applicators take the guesswork out of baling. They also make it easy and convenient. You have complete control from the tractor with an ISOBUS monitor, or the customer’s iPad. Leading-edge technology that works for you.

**Automatic Mode**

From the main operating screen, moisture readings are averaged every three seconds; baling rate every five seconds (600 Series only). The controller can match application rate for precise application.

**Manual Mode**

Operator can override automatic features and proceed as needed.

**Setup**

Adjust moisture points or set rate per ton. Weights for balers not equipped with scale can be estimated.

**Job Records**

Knowledge is power. Detailed job records, as shown below, help you stay efficient.

- Average and high moisture levels
- Bale weight
- Amount of product used
- Date/time

<table>
<thead>
<tr>
<th>FIELD</th>
<th>AVG MOISTURE</th>
<th>HIGH MOISTURE</th>
<th>PRESERVATIVE</th>
<th>BALE NUMBER</th>
<th>BALE WEIGHT</th>
<th>DATE/TIME BALED</th>
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You run the show for round or conventional balers

Automatic applicators provide “in-the-field” office management for your baling operations.

300 and 600 Monitors

- Control the automatic application of preservative
- Allow moisture to be read continuously by sensors, fed to the processor and displayed
- Measure speed of baling, the amount of preservative used and the average moisture of the last bale
- Display moisture as it changes, 200 feet at a time
- Automatically adjust the rate of preservative application every three seconds when in automatic mode. Actual rate of application is read by a flow meter and displayed on the screen as “actual” and compared to the set “target” rate.
- Adjusts for speed of baling on both automatic systems on conventional square balers
- Adjusts for speed of baling on 600 series applicators for large round balers

Everyday electronic cab control

For small-scale operations, an electronic control applicator is available on all baler models and sizes. The dial on the control box can be adjusted for correct preservative output. Electronic components in the cab control box hold the application rate constant.

This unit is included for:
- 25 and 55-gallon applicators with electronic control
- 110 and 115-gallon applicators with electronic control for large square balers (manual control available for round and small square balers)

### COMPARISON OF APPLICATOR CONTROLS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Electronic</th>
<th>300 Series Automatic</th>
<th>600 Series Automatic</th>
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<tbody>
<tr>
<td>Single Pump</td>
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<td></td>
</tr>
<tr>
<td>3-Pump Manifold</td>
<td></td>
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<td>X</td>
</tr>
<tr>
<td>Control Box with Adjustable Dial</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iPad option</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Built-in Flowmeter</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Automatic Application</td>
<td>X</td>
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<tr>
<td>Moisture Sensing Capability</td>
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<tr>
<td>Job Record by Field</td>
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<tr>
<td>Job Records by Individual Bales</td>
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<tr>
<td>Calculates Baling Rate: Round Baler</td>
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<td>X</td>
<td>X</td>
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<tr>
<td>Calculates Baling Rate: Small Square Baler &amp; Large Square Baler</td>
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<td>X</td>
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<tr>
<td>USB Port to Download Records</td>
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<td>X</td>
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<tr>
<td>Hay Indicator Compatible</td>
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<td>X</td>
<td>X</td>
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<tr>
<td>Stroke Counter on Small Square Baler</td>
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<td>X</td>
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<tr>
<td>Dye Sprayer Kit Compatible: Small Square Baler, Large Square Baler</td>
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<td>X</td>
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<tr>
<td>Harvest Tec ID System Compatible: Large Square Baler</td>
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</table>
A. Optional Tagger

The Harvest Tec Tagger is an optional addition to the automatic applicator on large square balers that allows you to take the specific information for each bale and transfer it to a tag that is attached to the twine.

(U.S. Patent 7,621,111B2)
(U.S. Patent 7,415,924B2)

B. Pump controller

The Pump Controller is housed in the pump manifold and is controlled by the main, Dual Channel Processor (DCP). Based on readings collected by the moisture sensors, the pump controller turns pumps 1, 2 and 3 on or off, applying the correct amount of preservative for the moisture and tonnage being baled.

C. Sensors for square balers

Sensors for the automatic system on square balers consist of two star wheels that mount to the top of the bale chute directly behind the knotters.
D. Main Processor
The main processor, or Dual Channel Processor (DCP), is the system’s main processing unit that controls the other modules and manages the entire system. Job records are downloaded via a USB port through the DCP.

E. Spray Shield And Nozzles
Spray shields and nozzles have been designed and placed to ensure maximum and even coverage of the crop.

F. Automatic Control
The touch-panel display is located in the tractor and displays:
- Moisture content
- Speed of baling
- Target application rate and actual application rate
- Volume used
- Last bale average moisture
- Total tons baled
Precise Bale Identification

The Harvest Tec Bale Identification System provides you with the very latest in precision hay production. Versatile and smart, this system allows you to make your baling operation more precise from start to finish, helping you get the most out of your uptime.

Quality Control

Tagging bales with the Harvest Tec system provides sellers and buyers with a visible record of moisture and production location.

Inventory

Tagged bales make taking inventory easy. Scan bales during stacking, shipping or feeding to maintain accurate count.

Easy Identification

The Harvest Tec system allows for reading individual bale data. When a bale with excess moisture is scanned in the field, it can be set aside to avoid damaging other bales in a stack.

Sorting Bales

Create stacks according to bale quality, moisture levels or bale weights by scanning tags when sorting.

Desktop Software

Install the harvest Tec system on a PC. Tagged and scanned bale information can be saved in the management program, creating searchable, detailed inventory records and printable shipping invoices.

Feeding

Tagging bales helps you provide quality feed at consistent moisture levels for optimal milk production.
Intelligent components of the Harvest Tec Bale Identification System

A. Baler Antenna

Mounted on the back of the bale chamber, the antenna writes all the information gathered by the DCP to the tag.

B. Tagger

The tagger mounts on top of the bale chute. When signaled, it lifts the twine and the tag is wrapped to the twine as it is released.

C. Star Wheels

Two star wheels are mounted on top of the bale chute behind the knotters. As the wheels turn with the bale, they will record the baling moisture and measure moisture between 8% and 70%.

D. Main Processor

The key component that drives the Harvest Tec Bale Identification System is the main processor (DCP). The star wheel sensors, GPS, and scale (if equipped) send the information to the DCP, which collects the bale information and creates a unique profile for every bale made. That information is then transferred to the tag.

Tags

A permanent vinyl tag is wrapped around the twine, and each tag holds a radio frequency identification (RFID) chip with memory. As the tag passes under the baler antenna, a signal reaches the tag, saving the bale’s specific information permanently to the tag.

Display

Information collected by the DCP is displayed on the touchscreen display. The operator will always see the current moisture, rate of baling and when the tag is applied.

Reading the Harvest Tec Bale Identification Tags

The information on the Harvest Tec Bale Identification tag is read with a scanning device. The tag transmits information to a receiver on the scanner display. Using RFID frequency, the tag can be read without seeing it.

Hand scanning

The tags can be read with a hand-held scanner up to 10 feet away.

Scanning while retrieving bales

When the scanner is mounted on the hay retriever, bales can be read up to 20 feet away. Bales can be rejected based on moisture level and other criteria. Information about bales (tonnage, number of bales in each grouping) is recorded during stacking.

Scanning with a hay loader

When the hay is handled with a loader, the scanner can be mounted on the machine to provide information for sorting and controlling groups of bales. When a stack is made or a truck is loaded, the list of bales is recorded or printed.

Portal scanner

The portal system mounts to a boom over a truck and scans bales up to three deep as the load drives under it. Tag information records to a PC and creates a list of shipped and received bales. System antennas can be wired directly to the PC or the data can be sent via wireless signal to a remote location.
Safe, Innovative Baling At High Moistures

Maximize the number of acres baled per day with a chemically-buffered form of propionic acid formulated to prevent spoilage of valuable hay crops. GREEN-GARD hay preservative from John Deere is gentle on your baler with a pH of 6.0 that is as neutral as rainwater, yet it is just as effective as straight propionic acid. And, it works on all types of hay, including alfalfa, grass and other crops susceptible to decay at higher moistures.

Better bale quality

Hay baled at higher moistures can heat and spoil. GREEN-GARD hay preservative will treat hay up to 30% moisture.

<table>
<thead>
<tr>
<th>HAY MOISTURE</th>
<th>DAMAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>16% - 22%</td>
<td>Hay discoloration and odor can occur</td>
</tr>
<tr>
<td>23% - 26%</td>
<td>Hay temperature can climb to 120°F in storage; mold will begin to form and quality drops significantly</td>
</tr>
<tr>
<td>Over 27%</td>
<td>Can result in temperatures over 140°F; hay can turn black and combust</td>
</tr>
</tbody>
</table>

GREEN-GARD is the only hay preservative that is endorsed by John Deere.

Calculate the GREEN-GARD Benefits:

- Greener hay with higher feed value
- No more waiting on the weather. Bale when you’re ready at moistures up to 30%.
- Works well on all types of hay.
- Non-corrosive formula won’t harm the baling equipment, operators or livestock.
- Store treated hay for years. It will look and feed as fresh as when it was first baled.
- Store product outside. GREEN-GARD won’t freeze or lose effectiveness over time.
- When compared to other preservatives, GREEN-GARD is smarter:
  - Easier to apply
  - Gives more consistent coverage
  - Won’t clog application equipment

GREEN-GARD™ is a trademark owned by Deere & Company
GREEN-GARD is available in four sizes for any size baling operation.

<table>
<thead>
<tr>
<th>GREEN-GARD HAY PRESERVATIVE CONTAINER SIZES</th>
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<tr>
<td>Totes</td>
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<tr>
<td>1,800 lbs/200 gal* (818 kg/757 L)</td>
</tr>
<tr>
<td>2,380 lbs/270 gal (1,082 kg/1020 L)</td>
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<tr>
<td>Drum</td>
</tr>
<tr>
<td>450 lbs/50 gal** (204 kg/189.3 L)</td>
</tr>
<tr>
<td>Mini Drum</td>
</tr>
<tr>
<td>120 lbs/15 gal** (54 kg/50.5 L)</td>
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* Not available in Canada
** Not available in California

- 200 or 270-gallon tote goes a long way and is preferred by larger square baler operators.
- 50-gallon drum is enough for any size baler and will treat up to 100 tons of hay.
- Easy-to-store 15-gallon drum works well for smaller operations.

**Safe, cost-effective and smart**

Bales treated with GREEN-GARD yield more tonnage, have a higher relative feed value and are safer for all livestock. Propionic acid, the main ingredient in GREEN-GARD, is an organic acid occurring naturally in a horse’s gastrointestinal tract. In ruminants, propionic acid is produced by rumen bacteria, so it is beneficial in the digestive process.

**Practical application**

Gentle and effective, the ingredients in GREEN-GARD will not cause corrosion on your baling equipment. When paired with approved John Deere applicators at the recommended application rate, you can be assured of maximizing your hay baling productivity year after year with GREEN-GARD.

**GREEN-GARD HAY PRESERVATIVE INGREDIENTS**

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<th>Active Ingredient</th>
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<tr>
<td>Citric Acid</td>
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| Other Ingredients            | 30.5% |
| Ammonium Hydroxide, Deionized Water, Sorbitol, Green Dyes | Total 100% |

**EPA Registration #73877-1-39376**

**APPLICATION RATES**

**LARGE SQUARE BALES**

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<th>Hay Moisture</th>
<th>Stem Moisture</th>
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<td>Under 22%</td>
<td>6 lbs/ton</td>
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<td>23% - 26%</td>
<td>10 lbs/ton</td>
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<tr>
<td>27% - 30%</td>
<td>DO NOT BALE</td>
<td>16 lbs/ton</td>
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**SMALL SQUARE AND LARGE ROUND BALES**

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<th>Hay Moisture</th>
<th>Stem Moisture</th>
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<td>Under 22%</td>
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<td>23% - 26%</td>
<td>8 lbs/ton</td>
<td>6 lbs/ton</td>
</tr>
<tr>
<td>27% - 30%</td>
<td>16 lbs/ton</td>
<td>12 lbs/ton</td>
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Not recommended on any hay above 30% moisture.
Make better hay with precision products

From high-quality products like GREEN-GARD hay preservative to worry free automatic applicators with moisture sensors, to GPS and Field Mapping, proficient pumping systems and integrated displays, Harvest Tec and John Deere help you work smarter to get the job done.

Dye sprayer kit

The Dye Sprayer Kit (part number 030-0840) is a simple and effective way to mark wet areas on square bales. Compatible with any 600 Series Automatic Applicator on small and large square balers, the three-gallon system is mounted near the bale chamber with the spray tips on the side or top of the bale chamber. Easy to fill and service, one tank of dye mix (part number 009-0800) can last through a full tank of GREEN-GARD hay preservative and is adjustable from 8% to 72% moisture on small or large square balers.

While working, if the high moisture alarm sounds on the display, the system sprays a food-grade, red-colored dye that visibly marks the exact location of the wet spots within the bale, allowing for a quick and easy reference to better manage bales for feeding, sorting, inventory or storage.

GPS and yield mapping

An additional GPS package for your large square baler is available to take your productivity to the highest level. By incorporating the John Deere GPS receiver from John Deere into the 600 Series Automatic Applicator and Harvest Tec Tagger, the system will write the coordinates of the exact location the bale was tied off in the field to the tag. Using this technology, the producer now has the ability to create yield maps for their crops, which will allow them to gain the knowledge needed to maximize productivity and plan for future yields.
**Electric Transfer Pumps**
These standard output models will transfer preservative at a rate of four gallons per minute.

**Hand Transfer Pump**
Inexpensive, this hand transfer pump is ideal for transferring small amounts of preservative easily.

**Electric Transfer Pump**
For a rapid transfer rate of 14 gallons per minute, this pump will get the job done quickly.

**Moisture tester**
Hand-probe and pad style moisture tester that digitally measures moisture levels in the bales, windrow and chamber.

**Hay indicator kit**
A great addition to your GREEN-GARD Automatic Crop Preservative System. The kit consists of two eyes that mount on the baler’s pickup head. The eye kit senses when crop is passing through and automatically starts and stops preservative application.

**Surface Wrap Light Kit**
Load net wrap into the compartment of your Round Baler at night with convenient compartment lighting. Two low-profile work lights mount inside the compartment and wired into the baler.
### Automatic Applicators

#### LARGE SQUARE BALERS
- **696J4525B***: 110-gallon hay preservative applicator for John Deere L330, L340 balers

#### ROUND BALERS
- **3464483C***: 25-gallon hay preservative applicator for John Deere 5, 6 & 7 series round balers
- **3464516C***: 25-gallon hay preservative applicator for John Deere 8, 9 & 0 series round balers
- **3464546C***: 25-gallon hay preservative applicator for John Deere 0 series round baler with HC2
- **3494503C***: 55-gallon hay preservative applicator for John Deere 582 round balers
- **3494504C***: 55-gallon hay preservative applicator for John Deere 5, 6 & 7 series round balers
- **3494517C***: 55-gallon hay preservative applicator for John Deere 8, 9 & 0 series round balers
- **3494547C***: 55-gallon hay preservative applicator for John Deere 0 series round baler with HC2
- **694503B***: 55-gallon commercial hay preservative applicator for JD 582 round balers
- **694504B***: 55-gallon commercial hay preservative applicator for JD 5, 6 & 7 round balers
- **694517B***: 55-gallon commercial hay preservative applicator for JD 8, 9 & 0 series round balers
- **694547B***: 55-gallon commercial hay preservative applicator for 0 series round baler with HC2

#### SMALL SQUARE BALERS
- **3454410B***: 25-gallon hay preservative applicator for John Deere small square balers

*Does not include display

### Electronic Control Applicators

#### LARGE SQUARE BALERS
- **491J4525**: 110-gallon hay preservative applicator for John Deere L330, L340, L331, L341 balers

#### ROUND BALERS
- **4414483**: 25-gallon hay preservative applicator for John Deere 5, 6 & 7 series round balers
- **4414516**: 25-gallon hay preservative applicator for John Deere 8, 9 & 0 series round balers
- **4414546**: 25-gallon hay preservative applicator for John Deere 0 series round baler with HC2
- **4484503**: 55-gallon hay preservative applicator for John Deere 582 round balers
- **4484504**: 55-gallon hay preservative applicator for John Deere 5, 6 & 7 series round balers
- **4484517**: 55-gallon hay preservative applicator for John Deere 8, 9 & 0 series round balers
- **4484547**: 55-gallon hay preservative applicator for John Deere 0 series round baler with HC2

#### SMALL SQUARE BALERS
- **4414410**: 25-gallon hay preservative applicator for John Deere small square balers

### Applicators for self-propelled forage harvesters

- **676**: 90-gallon applicator for John Deere 7000 series self-propelled forage harvesters

### Accessories

- **474A**: Hay indicator (2005 & newer automatic & electronic applicators)
- **9212**: 12-Volt electric transfer pump (4-gallons per minute)
- **9215**: 110-Volt electric transfer pump (4-gallons per minute)
- **488**: Light kit for surface wrap compartment
- **489**: Light kit for side door compartment on 9 Series Premium round balers
- **490**: Light kit for surface wrap compartment on 0 Series round balers
- **FX2000**: Moisture tester. Combination hand-held & in chamber
- **2670DK**: Universal iPad Mini Display (iPad Mini with Hay App, mount and charger)
- **4672B**: 400 Series iPad conversion kit (Bluetooth receiver) for kits 2005 and newer
- **4672B**: 600 Series iPad conversion kit (Bluetooth receiver)

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**Part Numbers**

**Hay Preservative**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFH216669</td>
<td>120 Lb.** (13-gallon)</td>
<td><strong>Not available in Canada</strong></td>
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<tr>
<td>AFH216677</td>
<td>Drum of GREEN-GARD</td>
<td><strong>Not available in Canada</strong></td>
</tr>
<tr>
<td>AFH216670</td>
<td>450 lb.** (50-gallon)</td>
<td><strong>Not available in California</strong></td>
</tr>
<tr>
<td>AFH216678</td>
<td>Drum of GREEN-GARD</td>
<td><strong>Not available in California</strong></td>
</tr>
<tr>
<td>AFH216672</td>
<td>1800 Lb.** (200-gallon)</td>
<td><strong>Not available in Canada</strong></td>
</tr>
<tr>
<td>AFH216673</td>
<td>Tote of GREEN-GARD</td>
<td><strong>Not available in California</strong></td>
</tr>
<tr>
<td>AFH216680</td>
<td>Tote of GREEN-GARD</td>
<td><strong>Not available in California</strong></td>
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</tbody>
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