Inspection and maintenance guide for John Deere combines

Keep your combine harvesting!
Introduction

Increasing machine performance

Uptime and reliability are critical factors for your success. And your success is important to us. That is why John Deere combines have always been built to deliver the reliability you need and we are continually improving our combines, making them more efficient and easier to use.

However, even the most robust and reliable machines require maintenance and care. This book is filled with tips and tricks that will help you keep your machine, whether it is a W, T or C Series combine, running at full performance throughout the harvesting season. It is a guide that covers the essential daily cleaning all the way up to performance enhancing parts that can further boost your productivity.

An important tip right at the start: when it comes to servicing, don’t settle for anything less than genuine John Deere parts and lubricants. Designed by John Deere engineers specifically for John Deere equipment, these parts meet original John Deere specifications and standards.

- Reduce downtime
- Increase machine performance
- Enhance the value of your machine

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The basis for everything that follows
Farming is a hard and often dusty business. John Deere combines, with their fresh air systems for the cab, protect the operator from most of the dirt and grime that occurs during harvest operation. And of course we have specially designed our combine harvesters to achieve the best performance under the conditions you face.

While operating your harvester, material such as straw and chaff will come into contact with the moving parts.

Regular and thorough cleaning of your combine (together with other routine maintenance procedures described here and in your Operator’s Manual) will keep machine performance at its peak and greatly reduce the chance of costly downtime.

Cleaning your combine harvester with an air compressor is the fastest way to rid your harvester of unwanted dry material which may ignite during operation. Be sure to clean all areas, including corners and difficult to reach places. And remember to wear protective clothing and eye guards to prevent injury from flying debris.

In addition to the job of keeping your combine clean, optimal operation requires regular checks of all moving parts. The next pages will take you through the various elements of the inspection process and show you what to look for and what to do.

Areas to clean and check

- Cab
- Feederhouse
- Cutting platform
- Belts
- Chains
- Elevator
- Straw chopper
- Straw walker
- Sieve area
- Engine compartment
- Hydraulics
- Grease points
Check the reel tines. Check the reel tines to ensure that none are bent or damaged. Replace where necessary.

Knife and section guards inspection. Check to see if any of the knives or the knife guards are broken or bent and replace where necessary. When replacing a knife, be sure to use genuine John Deere knife sections to ensure that the knife has the durability and the size needed for optimal operation.

Crop lifter inspection. Check crop lifters to see if any are bent or damaged. Bent crop lifters will reduce the performance of the combine. If they are bent downwards, they could even damage the header by digging into the ground.

Auger finger inspection. Check to see that no auger fingers are broken or bent. Genuine John Deere auger fingers feature a breakaway groove, permitting them to break at a specific point and fall back into the auger drum to prevent platform damage.

Adjust drive parts. The cutting belt drive and the auger chain drive can be adjusted on the right side. Remove the left hand side shield and check tension of belt and chain to ensure optimal header performance. See operator’s manual for optimal adjustment.

Crop divider inspection. Check crop dividers to see if they are damaged or bent. Check hinges to see if the crop dividers move properly. Bent crop dividers result in higher header losses and lower combine performance.

Check the reel tines. Check the reel tines to ensure that none are bent or damaged. Replace where necessary.
**Daily maintenance**

**Feederhouse**

*Initial cleaning.* Remove the header and clean all straw and debris from the feederhouse. Once the feederhouse is clean, remove both side shields. Clean around bottom drive sprocket and slip clutch. Make sure that the speed sensor wheel is tight and the speed sensor harness is connected.

*Check chain and belt tension.* Check the tension of belts and chain. Adjust if necessary. Adjust spring tension to gauge. Make sure gauge is not and cannot become trapped in the spring. Check belts for damage and be sure to replace the belts as soon as damage is evident. Check hydraulic hoses for possible oil leaks. Tip: oil leakages can be easily detected by looking for parts of the hydraulic system that are coated with dust.

*Inspect slats.* Check the slats and make sure that they are not bent or damaged. Replace all damaged slats.

*Test conveyor chain tension.* Use a lever to check the tension of the conveyor chain. Measure the tension on the outer chain. For optimal adjustment see operators manual. Loose chain results in uneven feeding and can even damage other machine compartments.

*Empty stone trap.* Empty out the stone trap. Check if any damage is visible on the threshing cylinder or concave. If yes, contact your local dealer for support.

*Clean radiator.* Clean the radiator by blowing air from the inside out. Check all areas for chaff build-up and clean if necessary.

**Engine compartment**

*Clean air filter.* Remove and clean exterior air filter. Clean with compressed air from the inside out. Important: never direct air against outside of the filter. If exterior air filter is damaged or if alarm signal “air filter blockage” is shown on CommandCenter display always replace both air filters. Never clean the interior filter. Install a new one if interior filter is covered with dust or damaged.

*Check oil level.* Check engine oil level. Oil should never be below the mark on the dipstick. Remember to change the oil every 100 hours if the fuel you use contains more than 0.5 % sulphur. If your fuel has less sulphur, remember to change the oil every 250 hours or every 375 hours if you are using John Deere PLUS-50.
Daily maintenance

**Engine compartment**

- **Straw walkers**
- **Chains**
- **Belts**

**Check oil level.** To check the hydraulic oil level, make sure that the header is on the ground, unloading auger is folded in and HillMaster is in road transport mode. Oil level must be above the lower sight glass and below top of upper sight glass. Add oil as needed. Also check oil level of main engine gear case with dipstick and fill up oil if needed.

**Check coolant level.** Coolant level should be between the two marks in the coolant reservoir. Add coolant as needed. **Important:** Always check coolant level when engine is cold. Never open coolant reservoir when engine is hot.

**Elevators**

- **Check chains.** Make sure all the chains are properly oiled. Please note: Do not oil the elevator chains!

**Straw walkers**

- **Check straw walker.** Open the gate on the top of the combine’s rear hood. Clean behind the rear wall and check straw walker grids. Then go underneath to check straw walker bearings and replace if needed. For replacement, see operators manual.

**Sieve area**

- **Check sieve area.** Check precleaner upper and lower sieve for any dirt or straw which may plug some area of the sieves. Remove all the dirt for optimal performance of the machine.

**Check tension and condition.** Check the tension of all belts and adjust if necessary. Check the belts for possible damage and replace if any damage is visible. Be sure to use original John Deere belts.

**Check paddles.** Check elevator chain for worn or missing paddles. Also check the upper beater paddle. In tough conditions it may be advisable to install one or more steel paddles in the elevator chain to act as a wiper. Note: Please, consider that one elevator paddle is always missing on machines with HarvestMon due to self calibration of yield meter.
Daily maintenance

Hydraulics
- Straw chopper
- Grease points

Cab
- Tyre pressures

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**Hydraulics**

*Check hoses and fittings.* Carefully inspect the hydraulic hoses, fittings and pumps for possible leaks and tighten fittings where necessary. Tip: oil leakages can be easily detected by looking for parts of the hydraulic system that are coated with dust. Don’t forget to check the oil level in gear boxes and oil reservoirs.

*Inspect knives.* Carefully review the straw chopper knives to see if any are broken or damaged. If one of the knives is damaged, replace the knife and then turn the knife bar 180 degrees and replace the knife on the other side of the rotor in order to maintain a proper balance. Don’t forget to check the stationary knives.

**Grease points**

*Greasing.* To increase your uptime when working in the field you will find two convenient John Deere lubrication quick guides as stickers on the inside left and right hand side shields on the machine. Also see lubrication references in the operator’s manual.

**Straw chopper**

The CommandCenter of your harvester is where you will spend a large part of your time during harvest operation. Remember to blow out the cab once a day to keep dust and dirt to a minimum. Inspect the cab fresh air filter and clean or replace when necessary. As a part of your daily inspection and cleaning routine, this quick, daily clean of your cab will help to keep your work environment as pleasant as possible, reducing the stress and strain of a hard harvest day.

**Cab**

**Tyre pressures**

*Clean cab air filter.* Blow out cab air filter for comfortable and stress free working hours.

*Check tyre pressures.* It is very important that you operate your machine with the recommended pressures. When pressures are too low major damage can occur and when it is too high soil compaction can result. Note: Always check pressures before running your machine in order to avoid inaccurate results. Please, use operator’s manual to check the recommended tyre pressures.
Use your time effectively

Unexpected down time or reduced efficiency can be a very expensive proposition – especially during the harvest season.

That makes the winter months so valuable. The off season gives you the time you need to make an appointment and have your combine checked by your dealer’s experienced John Deere service technicians.

John Deere service technicians have been comprehensively trained and are constantly kept up to date through seminars, workshops and diagnostic systems training offered by John Deere. You can be confident that they have the expertise and modern diagnostic technology to ensure that your combine gets a thorough check-up.

The service technicians will inspect all of the key areas of your machine. Among other things, this inspection will always include the threshing area, the residue management system and the header equipment. So not only will you be in peak operating condition when the next harvest season rolls around, you will also lengthen the life span of your combine and secure a higher re-sale value.

As important as the check-up is the use of original John Deere parts and lubricants. Manufactured to meet the precise needs of your combine, genuine John Deere parts and lubricants will help to reduce downtime, increase machine performance and enhance the value of your operations.

For late-model John Deere equipment, our technicians use the Service ADVISOR diagnostic tool. Linked directly to your machine’s electronic controllers, this valuable tool enables our service technicians to determine problems faster and more accurately than ever before.

Our service technicians are LTA certified, trained professionals who take pride in their ability to keep your equipment running like new. Through seminars, workshops and diagnostic systems training, our technicians are continually educated to keep up with advancing technology. This training, together with their dedication and valuable experience gives you a team you can count on for fast, professional service.

Off-season maintenance with genuine John Deere parts and lubricants and carried out by John Deere service technicians – it’s a wise decision that really pays.
Small details that make a big difference

Auger fingers

Other companies are continually examining our parts to try and match our specifications. But a close look shows that their non-genuine John Deere products often have slight variations that can result in increased downtime or poor combine performance. The bottom line is quite simple: when repairs are necessary, it’s critical to choose John Deere parts. Only then can you be sure that your combine will continue to perform like a John Deere. The next few pages will show you a selection of genuine John Deere combine parts and how they differ from the look-alikes.

A sharp decision

To minimise grain loss, it is vital to have a clean out of the crop stem. This is especially true when you are harvesting over-ripe cereals. A sharp cutting edge means money in your pocket – so the cutting edge must remain sharp for as long as possible. That is why John Deere knife sections feature a maximum hardness at the cutting edge reached by modern computer-controlled hardening processes.

Look-alike knife sections feature high variations in hardness that can lead either to brittleness or premature wear. The knife body on the other hand, must be very tough to avoid breaking or bending when it is hit by foreign objects. Hardened steel, so important for the knife edge, becomes brittle. For this reason it is of the utmost importance to control the hardening process so that it only affects the cutting edge and does not reduce the tough properties of the knife body. John Deere manufacturing know-how delivers high precision induction hardening to make sure the knife section performs for you.

The size of a knife section is also very important. Replacement sections must accurately line up with the rivet holes on the knife back to avoid creating stresses that would prevent the knife from reciprocating smoothly. The interchangeability of genuine John Deere parts clearly reduces costly downtime. Quality features of the genuine John Deere knife section.

Auger finger bearings

Keep your bearings

Genuine John Deere auger finger bearings feature a specific hardness to meet the demands of a long and hard harvesting day. Under the exact same test conditions the genuine John Deere auger finger bearings successfully withstood the test load, while the look-alike auger finger bearing became deformed. Auger fingers with deformed bearings have been known to retract inside the auger, deforming the auger skin from inside and punching holes in it, causing expensive repairs and long periods of downtime.

A tangible difference

Auger fingers are responsible for the steady transport of crop through the cutting platform. They play a critical role in preventing overload, which can damage the auger, platform and feederhouse. It is also important that they cope with stones and other foreign objects or that they break in order to avoid serious damage to the auger. Bent auger fingers can cause stress and wear on the finger guide, as well as additional load on the finger crank and auger driveline. In extreme cases, this can cause the auger skin to deform. John Deere auger auger fingers are hardened to handle heavy loads. And they feature a breakaway groove, enabling them to break at a specific point and fall back into the auger drum, preventing expensive platform damage. Tougher, with a built-in breaking point, genuine John Deere auger fingers reduce repair, expense and downtime.

Knife sections

A very hard zone for long-life sharpness

Optimised tooth form for a smooth cut

Tough body to minimise the risk of breaking

Fine-grained chrome alloy steel with high fracture strength for high wear resistance

Very precise limits on production tolerances which are permanently controlled to guarantee interchangeability

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Genuine John Deere Parts

Rasp bars

Straw walker bearings

Belts

Separating the grain from the chaff

The rasp bar is the heart of your combine. It is the rasp bar that is responsible for the threshing operation, separating the grain from the rest of the plant. Genuine John Deere rasp bars go through heat treating that is deeper than that of other bars in order to keep them working longer. But it is not just a question of durability; the design of the rasp bar is critical in order to achieve optimum yields and the best possible grain quality. To enable this performance, our rasp bars have a number of special characteristics designed specifically to give you the best possible results.

Genuine John Deere straw walker bearings

Carrying a heavy load

Straw walker bearings are responsible for the performance and long life of the straw walker unit. They must be able to deliver flawless performance under a range of harsh conditions. Perfect self lubrication is essential, as the wooden bearings are not connected to a lubrication system. The bearing must be able to release the lubricant steadily as working temperatures increase. In addition, the wooden bearings must not warp, even if there are large changes in such factors as temperature or humidity. Finally, they should not open, crack or break, which would allow dust to enter the bearings and accelerate wear nor should they ever close and seize on the shaft.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Use on</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ58905</td>
<td>Rasp bar set, two right hand</td>
<td>900, 1000 and 1100 Series combines; and 950, 1050 and 1550 Series combines.</td>
</tr>
<tr>
<td>AZ58904</td>
<td>Rasp bar set, two left hand</td>
<td>900, 1000 and 1100 Series combines; and 950, 1050 and 1550 Series combines.</td>
</tr>
<tr>
<td>AZ13335</td>
<td>Rasp bar set, one left hand</td>
<td>2000 and 2200 Series combines; and 2050 and 2250 Series combines.</td>
</tr>
<tr>
<td>AZ13336</td>
<td>Rasp bar set, one right hand</td>
<td>2000 and 2200 Series combines; and 2050 and 2250 Series combines.</td>
</tr>
<tr>
<td>AZ26343</td>
<td>Rasp bar set, two right hand</td>
<td>900, 1000 and 1100 Series combines; and 950, 1050 and 1550 Series combines.</td>
</tr>
<tr>
<td>AZ26344</td>
<td>Rasp bar set, one left hand</td>
<td>900, 1000 and 1100 Series combines; and 950, 1050 and 1550 Series combines.</td>
</tr>
<tr>
<td>AZ47217</td>
<td>Rasp bar set, one right hand</td>
<td>900, 1000 and 1100 Series combines; and 950, 1050 and 1550 Series combines.</td>
</tr>
<tr>
<td>AZ47218</td>
<td>Rasp bar set, one left hand</td>
<td>900, 1000 and 1100 Series combines; and 950, 1050 and 1550 Series combines.</td>
</tr>
<tr>
<td>AZ58906</td>
<td>Rasp bar set, one left hand</td>
<td>2000 and 2200 Series combines; and 2050 and 2250 Series combines.</td>
</tr>
<tr>
<td>AZ58908</td>
<td>Rasp bar set, one right hand</td>
<td>2000 and 2200 Series combines; and 2050 and 2250 Series combines.</td>
</tr>
</tbody>
</table>

Lubricant capacity. To determine lubricant volume, the half bushings were placed in a furnace. Over a 14 hour period, the temperature of the furnace was gradually increased from 80°C to 220°C to mimic the actual temperature of a working straw walker. The test revealed that the look-alike bearing contained 1.2 g of lubricant, while the John Deere bearing contained 27.5 g of lubricant.

Temperature influence. Using the same test, the top portions of these bushings were exposed to increasing temperatures for 14 hours. After its exposure to this heat, the look-alike bearing shows significant warping. The John Deere bearing, constructed of wood with low internal tension, withstands temperatures with little change to its shape.

A black belt in efficiency

Genuine John Deere drive belts are not comparable with standard industrial belts or look-alike belts offered by aftermarket suppliers. To make the differences visible we exposed a genuine drive belt for cutting platforms and two look-alike replacements to a belt test. All belts were installed on two pulleys, tightened and then run with a speed of 1580 rpm up to fracture. The John Deere belt performed for 587 hours and generated a temperature of 70 °C. The first look-alike belt tested only had a capacity of 1.2 g of lubricant.

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Original John Deere Belts

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The reason for this superiority is John Deere’s belief in the importance of quality. Every drive belt for John Deere Combine Harvesters is specially developed for its particular application. In addition to the specific dimensions, it features a special rubber mix and an Aramid cord especially designed for heavy duty loads. These cords allow for maximum power transmission without being liable to linear extension.

This is a genuine John Deere drive belt after 587 hours on the test device – it features a 2 mm Aramid cord.

This look-alike belt ruptured after only 87 hours on the test machine – it features a 1.2 mm Aramid cord.

This industrial belt is constructed of 1.5 mm polyester; it elongated too much and the test had to be stopped.

A visible difference. The incorrect grain direction is clearly visible on the look-alike bearing. This faulty design can lead to a weak middle section of the half bushing, causing the bearing to collapse.

Genuine John Deere straw walker bearings

Carrying a heavy load

Straw walker bearings are responsible for the performance and long life of the straw walker unit. They must be able to deliver flawless performance under a range of harsh conditions. Perfect self lubrication is essential, as the wooden bearings are not connected to a lubrication system. The bearing must be able to release the lubricant steadily as working temperatures increase. In addition, the wooden bearings must not warp, even if there are large changes in such factors as temperature or humidity. Finally, they should not open, crack or break, which would allow dust to enter the bearings and accelerate wear nor should they ever close and seize on the shaft.

Part No. Description Use on
AZ45566 Straw walker bearing 2000, 2050, 3000, 3050, later 1100 Series combines and W-, T-Series combines.
AZ31217 Straw walker bearing 900, 1000 and early 1100 Series combines; and 1450 and 1550 Series combines; (46296)

Lubricant capacity. To determine lubricant volume, the half bushings were placed in a furnace. Over a 14 hour period, the temperature of the furnace was gradually increased from 80°C to 220°C to mimic the actual temperature of a working straw walker. The test revealed that the look-alike bearing contained 1.2 g of lubricant, while the John Deere bearing contained 27.5 g of lubricant.

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Straw chopper knives

Vibration in the straw chopper can be expensive. Unwanted vibration can lead to premature failure of both the chopper housing and straw hood and can also cause uneven drive loads that can lead to early drive belt failure. To ensure a balanced, smoothly running chopper rotor, genuine John Deere straw chopper knives are manufactured to extremely fine weight tolerances. Look-alike John Deere knives have weight tolerances up to ± 6 g, which is far too much.

Genuine John Deere straw chopper knives have always been built to provide maximum cutting performance and superior durability in case of impact with a foreign object. Now, to optimise straw chopper operation, an improved knife version has been introduced. The new premium chopper knives feature an asymmetrical cutting edge that improves the aerodynamics and reduces torsional and bending stresses.

The knife features a very tough body and a very hard cutting edge. The new knife is interchangeable with the earlier version and is suitable for all 9000 T and C Series Combines equipped with the Premium straw chopper.

The following examples show some of our test results, beginning with measurement of weight tolerances and continuing with laboratory results showing the different material hardness and manufacturing process.

Genuine John Deere batteries are designed specifically for the demands of an agricultural work environment. Their special grid geometry, for example, provides improved electrical conductivity. In plain terms that means you can ensure optimum resistance to vibration.

We could go on and on – but try it yourself and you will see, John Deere batteries are the best power source for your agricultural machinery.

To prevent cracks in the area of the pivot hole, John Deere knives are reamed after punching to ensure that loads on the rotor are spread evenly over the inner surfaces of the bore. Manufacturers of look-alike knives avoid reaming the knife after punching in order to save machining steps. This increases the wear on the bore and pivot and increases the risk of breakage.

Genuine John Deere batteries are tougher, easily handling the stress of daily agricultural use. The robust intercell connectors and plate mountings ensure optimum resistance to vibration.

Batteries also use a hybrid technology which ensures minimal self-discharging and water loss. The advantage for you is longer service life, extended storage life and a battery that is maintenance free. And you will find that they are tougher, easily handling the stress of daily agricultural use. The robust intercell connectors and plate mountings ensure optimum resistance to vibration.

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* RC (Reserve Capacity): A battery reserve capacity represents the length of time the battery can maintain the vehicle’s electrical needs in the event the alternator fails. The Battery Council International defines Reserve Capacity as a measure of the time (in minutes) a lead-acid battery can deliver 25 amps at 26.6 degree Celsius and maintain a terminal voltage of at least 1.75 volts/cell.
The best for your engine
You expect your combine to work hard under tough, demanding conditions and in all kinds of harsh weather. And you have invested in the reliability of a John Deere. Make the same wise decision when it comes to engine oil. Specially developed John Deere engine oil protects your engine and saves you money.

PLUS-50 engine oil has been developed exclusively for engines that work under heavy, continuous loads. Plus-50 oil reduces harmful engine deposits that can cause oil consumption, extreme wear and loss of power. And Plus-50 oil simply lasts longer. When used with a John Deere filter in a John Deere engine, drain intervals may increase by 50%. That means you’ll use less oil and fewer filters. And you’ll reduce your maintenance costs and downtime.

TORO-GARD SUPREME engine oil. This high performance oil was specially developed to cater for the demands of new generation engines. It has a broad range of performance characteristics that allow it to be used in diverse situations and in hot or cold weather.

HY-GARD Transmission and hydraulic oil. This sophisticated universal transmission oil provides a high performance and wear protection for John Deere hydraulic and transmission systems.

TOrq-GArD SUPrEmE engine oil. This high performance oil was specially developed to cater for the demands of new generation engines. It has a broad range of performance characteristics that allow it to be used in diverse situations and in hot or cold weather.

A cool engine
Cool-Gard is a ready to use, high performance monoethyl-ene glycol-based anti-freeze fluid that has been designed specifically for direct use in the engine cooling systems of John Deere equipment. It minimises the formation of deposits, prevents foaming in use and offers protection over a wide temperature range. A wetting agent improves contact between the product and the surfaces to be protected (cylinder block, liners, etc.).

Keeping friction to a minimum
John Deere Grease-Gard agricultural greases have been specifically developed for protecting, lubricating and helping to improve the efficiency and productivity of agricultural machinery. Keeping friction to a minimum

For even greater protection, Grease-Gard Premium Plus is an all-purpose solution for those who require heavy duty resistance to high temperatures and equipment vibration and excellent protection in corrosive and wet conditions.

Genuine John Deere Grease

Genuine John Deere Coolant

Genuine John Deere Lubricants

Genuine John Deere Parts

Lubricants
Filters are vital to the performance and life-span of your engine and hydraulics. It is of the greatest importance that you use the off season for a quick filter inspection, so that your next harvest season is just as trouble free as the last.

Genuine John Deere filters provide the best possible protection for you and your machine. Engineered to operate in demanding agricultural environments, our heavy duty fresh air filter protects you from airborne allergens by removing dust, pollen and mould spores down to 1 micron in size.

And our hydraulic and engine filters give your operating system the same thorough protection. So be sure to insist on genuine John Deere air and liquid filtration solutions to increase engine protection, extend service intervals and increase your machine uptime.

**Engine: Secondary air filter**
- **AZ26007**
  - 2X54 – 2X56
  - 2X58 – 2X66
- **AZ48196**
  - 2X54 – 2X56
  - 95X0 WTS, 96X0 WTS, 9780 CTS, W5X0, W6X0, T5X0, T6X0, C670
- Change annually.

**Engine: Primary air filter**
- **AZ26091**
  - 2X54 – 2X56
  - 2X58 – 2X66
- **AZ48195**
  - 2X54 – 2X56
  - 95X0 WTS, 96X0 WTS, 9780 CTS, W5X0, W6X0, T5X0, T6X0, C670
- Change annually and clean daily.

**Engine: Oil Filter**
- **rE46380**
  - 2X64 – 2X66
- **rE46383**
  - 2X56 – 2X66
- **T19044**
  - 2X54
- **rE504564**
  - 9540 WTS
- **rE504836**
  - 9560 (6.8 L) WTS, W540, W550, T550
- **rE509672**
  - 9560 (8.1 L) WTS, 9580 WTS, 96X0 WTS, 9780 CTS, W650, W660, T560, T660, T670, C670
- Replace every 250 hours or once a season, whichever occurs first. Fill crankcase with seasonal viscosity grade oil or Torq-Gard Supreme (250 hours change interval). If using Plus-50 oil and a John Deere filter, the service interval can be extended by 50 percent. Example: 250 hours extend to 375 hours.

**Engine: Secondary air filter**
- **Z62223**
  - 2X54 – 2X66
  - 95X0 WTS, 96X0 WTS, 9780 CTS
- **AH115836**
  - 95X0 WTS, W5X0, W6X0, T5X0, T6X0, C670
- Clean or replace every 200 hours and as required.

**Engine: Fuel water separator filter**
- **AZ34554**
  - 2X54 – 2X66
  - rE67901
  - 9540 WTS
  - rE517180
  - 9560 (6.8 L) WTS
  - r502778
  - 9560 (8.1 L) WTS, 9580 WTS, 96X0 WTS, 9780 CTS
  - AH226195
  - W540, W550, T550
  - AH226196
  - W650, W660, T560, T660, T670, C670
- Clean or replace as required.

**Engine: Fuel filter**
- **rE64450**
  - 2X54 – 2X66
  - rE509036
  - 9540 WTS (level)
  - rE509031
  - 9540 WTS HM
  - rE509032
  - 9560 WTS (6.8 L)
  - rE522372
  - 9560 WTS (8.1 L), 9580 WTS, 96X0 WTS, 9780 CTS
  - rE522878
  - W540, W550, T550
  - rE525523
  - W650, W660, T560, T660, T670, C670
- Clean or replace every 500 hours and as required.
Performance & Enhancing Kits

Enhancements for 600 Series cutting platforms
General combine enhancements

There are many things that you can do to customise your John Deere combine harvester and make it fit your specific needs. Here you will find a selection of attachments that will allow you to adapt your John Deere combine so that you will be able to achieve 100% performance under the conditions you face. If you have any questions on any of these items, your dealer will gladly supply you with more detailed information.

Enhancements for the 600 Series cutting platforms

Tapered auger flight extensions. Recommended for narrow combines for most dry crops (not for rape), bolted tapered flights ensure a smooth equal material flow. They take more material to the centre of the headerhouse, improving feeding and distribution of the crop over the width of the combine. (Not recommended for CTS and STS machines.) Part No. BZ10034

Short crop dividers. Standard for most crops and conditions, these short crop dividers do exactly what the name says: to avoid cutting too close to the grain or pod. And there is no risk of damage when storing them on the platform. Part No. BZ13620 (right) Part No. BZ13621 (left)

General combine enhancements

These bundles are recommended for different kinds of crops and conditions to increase the performance of your combine.

Cleaning paddle set. This set of 3 steel paddles prevents build-up within the elevator housing. Recommended for rice, maize, small grain and grass, the cleaning paddle removes dirt in the elevator. Every 11th paddle needs to be equipped. Part No. AZ100994

Slip clutch for a clean grain elevator. The slip clutch protects your belts from rupturing or even overheating when there is a blockage. Recommended for rice, peas & soybeans and grass. Part No. BZ100032

Adjustable auger covers bundle. Adjustable covers allow quick removal for grass seed and adjustments for other crops. New drive parts allow adapting speed of vertical to horizontal auger to prevent shear bolt failure. Recommended for grass, seed, maize. Part No. BZ100150/BZ100151

Heavy duty feeding chain. The improved durability of our heavy duty feeding chain reduces maintenance and extends your service intervals. Recommended for rice and small grain. Part No. AZ102571/ AZ102572

Threshing cylinder reduction gear. When you need a slower cylinder speed range to reduce grain damage the John Deere reduction gear reduces cylinder speed from 500 – 1000 rpm to 250 – 600 rpm without decreasing engine speed. Recommended for rape, corn, peas and soybeans. Part No. BZ13390

Beater speed reduction kit. To improve grain quality, an optional beater speed drive can be installed for the beater which leads to a speed reduction of 75%. Recommended for peas, soybeans and maize. Part No. BZ13327

Knife segments for 600 Series cutting platforms

Because of different lengths and types of cutting platform it is difficult to have an overview of knife segments on 600 Series cutting platforms. Below you will find a summary of which knives are required.

There are three different knife types available: knives with coarse serrated sections and knives with fine serrated sections for welded knife guards as well as knives with fine serrated sections for forged knife guards. The coarse serrated sections Z93077 for steel fingers are indicated by 19 teeth per cutting edge, the fine serrated sections Z90078 by 25 teeth. The sections for forged fingers H201602 have 22 teeth per cutting edge.

Knife segments are connected together using couplers containing 1 knife back coupler, 3 knives and hardware. The following table shows the number of knife sections for each segment, the coupler(s) and a sum for the complete knife (s).

<table>
<thead>
<tr>
<th>Section Width</th>
<th>Welded Knife Guards (coarse serration = 19 teeth)</th>
<th>Welded Knife Guards (fine serration = 25 teeth)</th>
<th>Forged Knife Guards (coarse serration = 22 teeth)</th>
</tr>
</thead>
<tbody>
<tr>
<td>614</td>
<td>1 knife back coupler, 3 knives</td>
<td>1 knife back coupler, 3 knives</td>
<td>1 knife back coupler, 3 knives</td>
</tr>
<tr>
<td>615</td>
<td>1 knife back coupler, 3 knives</td>
<td>1 knife back coupler, 3 knives</td>
<td>1 knife back coupler, 3 knives</td>
</tr>
<tr>
<td>620</td>
<td>1 middle coupler, 1 knife back coupler, 3 knives</td>
<td>1 middle coupler, 1 knife back coupler, 3 knives</td>
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* An end segment for 618 cutting platform with forged fingers is not available. Following single parts (1) H204912 knife back, (1) H202522 half section, (2) 14M7303 nut and (2) H158341 screw are needed to complete the knife.  

Welded Knife Guards (coarse serration = 19 teeth)  Welded Knife Guards (fine serration = 25 teeth)  Forged Knife Guards (coarse serration = 22 teeth)  

Summary of which knives are required.

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Attachments

Special attachments for maize and rice harvesting

**Filler plates for threshing drum and feederhouse sprocket.** If you require cob in your maize, these filler plates will prevent the cobs from entering the threshing drum so that they pass through the machine without being threshed. The addition of a feeding chain sprocket will reduce the feeding chain speed to prevent kernel damage. Part no. BZ100134/BZ100135

**Corn-cob-mix (CCM) chaffer.** This bundle contains two special sieves designed specially for corn cob mix harvesting. The openings in these sieves allow the cobs to pass through without plugging the sieves, giving you the entire cob with kernels. Part no. BZ100091/BZ100092

**Speed reduction kit for straw chopper.** This bundle is recommended for threshing corn. Harvesting corn always puts a very heavy load on the chopper. It makes it important to reduce the speed of the straw chopper knives in order to prevent unnecessary damage. This speed reduction kit lowers the speed of the straw chopper knives from 3600 rpm to 1800 rpm. Part no. BZ100103/BZ100104/BZ100181

**Deep tooth chaffer.** The special orifice form of the deep tooth chaffer prevents plugging that can occur when harvesting in moist conditions. Part no. BZ100047/BZ100049

For maize harvesting

**Filler plates for threshing drum and feederhouse sprocket.**

**Corn-cob-mix (CCM) chaffer.**

**Speed reduction kit for straw chopper.**

Special attachments for rice harvesting

**Spike tooth cylinder and concave.** Specially designed to deal with the difficulties of threshing rice, this bundle contains a cylinder and a concave which are both equipped with teeth. These teeth provide very soft treatment of the rice, preventing damage to the rice corn and making your rice harvest much more efficient. In tough conditions with green straw it prevents concave plugging. Part no. BZ100225/BZ100226

**Grain tank bottom floor liner.** This stainless steel liner prevents premature auger wear and can also be used as a repair solution. Part no. AH168093

**Deep tooth chaffer.**
Attachments

For pea and soybean harvesting

Perforated feederhouse floor. By exchanging the closed feederhouse floor with a perforated pea floor, the dirt is sieved out before the plant enters the threshing area. The bundle contains 2 perforated floors.
Part No. BZ13638/BZ13639

Top covers for C-series rotors. Reduce separator losses by installing a set of 10° top covers (1 × left hand, 1 × right hand cover) in middle position rather than the standard 20° covers. The two 10° top covers allow you to keep the material in the machine for a longer time, resulting in a more efficient separation process.
Part No. AH13677 (left) / AH13678 (right)

Pea cover. Easy to exchange, these perforated flaps for the elevators and the clean grain cross auger will reduce dirt in the grain tank and reduce auger wear.
Part No. BZ100042/BZ13345

For small grain harvesting

De-awning bar. This bar increases the threshing efficiency of your combine in hard to thresh crops (e.g., barley, wheat) without closing the de-awning plates. This helps to achieve maximum separation in the concave area.
Part No. AZ63896/AZ63897

Filling auger deflector. This deflector prevents grain losses outside the grain tank at maximum throughput.
Part No. Z79336

Slow fan speed. By reducing the fan speed from 650 to 350 rpm you can allow light crops to fall through the sieves instead of being blown out of the machine.
Part No. BZ13666

For grass harvesting

Air flow kit. These air flow plates use a part of the discharged air to blow away chaff and straw in critical areas of the engine, decreasing fire danger and increasing the cleaning intervals for the engine deck in dusty conditions.
Part No. BZ100218

Grass kit for clean grain elevator top housing. Propeller turns in same rpm as filling auger to prevent a build-up in the transition area between the elevator and the filling auger.
Part No. BZ100040/BZ100233
Residue management: straw choppers, tailboards and chaff spreaders

**Straw choppers**
There are three ways to equip your John Deere combine with a straw chopper or increase its performance. If you have no straw chopper you can choose a standard chopper (1). Or you can choose the premium chopper (2) with improved efficiency and an extra fine cut. And if you already have a standard chopper installed on your machine, why not upgrade to a premium chopper (3).

1. **No chopper**
2. **Standard**
3. **Premium**

- **Standard chopper.** Standard straw chopper with 3600 rpm rotor speed. Provides a very regular, fine cut. Drive parts are included. Part No. BZ13415/13416
- **Premium chopper.** The premium straw chopper with 3500 / 1700 (for corn) rpm rotor speed and 88 (5 walker) / 108 (6 walker) knives in 8 knife rows provides an extra short fine cut in all conditions. Even straw distribution for platforms up to 9 m. Drive parts are included. Part Nos. BZ13612/BZ100101/BZ100102

**Tailboards**

- **Tailboard with electric remote control.** Designed for use with a standard chopper, this tailboard has an electric remote control making it easy to adjust the chopper vanes on-the-go when harvesting under difficult conditions (side wind). Part No. BZ13395/BZ13398

**Chaff spreader**

- **Standard chaff spreader.** This standard chaff spreader吹s the material coming from the cleaning area to both sides. Includes hydraulic parts. Part No. BZ100119–BZ100122/BZ13622 –BZ13625
- **Premium chaff spreader.** This premium chaff spreader gives you the option of spreading the chaff either on the side or alternatively into the straw. Hydraulic parts are included. Part No. BZ100123/BZ13627
- **Premium chaff spreader rebuild kit.** Turn your standard chaff spreader into a premium chaff spreader with this convenient kit. Part No. BZ13602
**Attachments**

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**CCTV**

- Service lights
- Xenon working lights

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**Video observation system**

In demanding off-road applications, heavy duty equipment is necessary for productivity and safety. This is also true for CCTV equipment. These heavy duty cameras are designed for installation at the rear hood and unloading auger, enabling you to observe the unloading and chopper spread pattern from the monitor in the cab.

Part nos.:
- MC5000000000 (1 camera, 1 monitor, 1 x 15 m cable)
- MC5200000000 (2 cameras, 1 monitor, 2 x 15 m cables)
- MC5400000000 (3 cameras, 1 quad-split monitor, 3 x 15 m cables)

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**Multi-function camera holder**

Allows camera to be mounted in many locations.
Part no. Z101225

**Combine camera holder**

Allows camera to be mounted on standard rate unloading auger.
Part no. AH217774

**Monitor holder**

Allows monitor to be mounted in the cab.
Part no. L113657

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**Service lights**

With five service lights, night time maintenance is simple. This bundle includes two lights under left hand side panel, one light under right hand side panel, one light for the rear access ladder / radiator screen and one light for the engine compartment.
Part no. B213418

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**Xenon working lights**

These Xenon working lights deliver 100% greater illuminated area for easier and safer night operation. The Xenon working lights omit less heat and last up to five times longer than regular equipment halogen lights.

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**Trailer brackets**

**Trailer bracket with manual hitch.** Enables your harvester to pull a header trailer. Manual hitch.
Part no. B213349

**Trailer bracket with automatic hitch.** Enables your harvester to pull a header trailer. Automatic hitch.
Part no. BZ100199/BZ100200
Ag Management Solutions
Modern agriculture is faced with international competition on the one hand and increasing costs of production on the other. With guidance and documentation, John Deere’s Ag Management Solutions help reduce input costs, increase productivity and take strain off the operator – from tillage to harvesting.

At the heart of all Ag Management Solutions are the GreenStar Common Components: The StarFire ITC receiver and the GreenStar 2600 Display.

StarFire ITC Receiver
The StarFire ITC pinpoints your exact in-field position for all your guidance and documentation features. With its integrated Terrain Compensation module it can correct all position calculations to adjust for uneven ground and slopes. The StarFire ITC receiver can easily be transferred to other vehicles, whether they are tractors, combines, forage harvesters or self-propelled sprayers. And with scalable accuracy you are flexible to choose between three different satellite signals – depending on the accuracy you need in the field.

GreenStar 2600 Display
A large colour touch screen display, the GreenStar 2600 is easy to use and easy to read in all light conditions. During harvest, on screen yield mapping and split screen functionality allow you to precisely follow your in field operation.

Use it on all your machines and the GreenStar 2600 brings you four features in only one display. It gives you full control of all your guidance applications, conforms to ISOBUS standards and comes pre loaded with field documentation to boost productivity. It can also act as a machine performance monitor.

Harvest Monitor & HarvestDoc
Track tonnage while you harvest. With John Deere’s Harvest Monitor you can accurately observe your harvest data either in the new CommandCenter display or with the GreenStar 2600.

One step up, on your GreenStar 2600 display HarvestDoc records all valuable harvesting data linked to the in-field location. Easily transfer this data to your office computer to optimise future operations according to yield maps and to fulfil traceability requirements.

Hands-free AutoTrac Assisted steering
Want to maximise every pass in the field and reduce the workload on your operators? Then simply add satellite based AutoTrac assisted steering and experience its many advantages:
- Always use the full platform width in straight tracks or curves
- Open up straight and parallel lands
- Time to optimise combine performance
- Continue working at night and in low visibility conditions
- Unload on-the-go with ease when the tractor has AutoTrac as well
- Faster headland turns, e.g. taking every 2nd pass
- Reduced input cost and higher productivity
- Higher operator comfort

Attachments
- StarFire ITC Receiver
- GreenStar 2600
- AutoTrac Assisted Steering
- Harvest Monitor
- HarvestDoc
<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AH127385</td>
<td>Perforated clean grain elevator before fan</td>
</tr>
<tr>
<td>AH127388</td>
<td>Perforated clean grain elevator after fan</td>
</tr>
<tr>
<td>AH127871</td>
<td>Sight pin pinion (rubber element)</td>
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<tr>
<td>AH132683</td>
<td>Perforated bagging elevator bottom flap</td>
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<tr>
<td>AH133147</td>
<td>Milling machine limiter bolts</td>
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<tr>
<td>AH133179</td>
<td>110mm round head area</td>
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<tr>
<td>AH137567</td>
<td>60mm clearance guide (40m wide)</td>
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<td>AH137568</td>
<td>Top cover G-axon rotor (RP side)</td>
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<td>AH193599</td>
<td>Hydraulic clean grain elevator chain</td>
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<td>AH194492</td>
<td>Hydraulic手指 optical (1975)</td>
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<td>AH269528</td>
<td>Grit Roll for Martin Freeman IF Combine</td>
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<td>Top link bottom flail line</td>
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<td>AH792345</td>
<td>Dihedral flaps (metal rudder)</td>
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<td>AH792374</td>
<td>Complete casement rollchange</td>
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<td>Tractor stylist package add-on</td>
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<td>Heavy duty feed chain</td>
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<tr>
<td>AH209872</td>
<td>Heavy duty feeding chain</td>
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<tr>
<td>AH209898</td>
<td>Drive belt cover for straw chopper drive</td>
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<td>Discharge beater anti wrapping deflector kit</td>
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<td>Adapted filter housing (twin unit)</td>
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<td>95X0WTS Perforated tailings elevator bottom flap</td>
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<td>AH127871 Deep tooth precleaner (without solid steel front section)</td>
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</tr>
<tr>
<td>AH209899</td>
<td>AH127871 Power strip electrical outlets (located in cab)</td>
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<tr>
<td>AH209899</td>
<td>AH127871 CCTV system (1 camera)</td>
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<tr>
<td>AH209899</td>
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For specific model information please ask your dealer.

Not for HillMaster machines!
Exceptional parts availability: All John Deere dealers are connected to a central, worldwide parts database. If the part you need is not in stock, your dealer can quickly query other dealers using the JDPOINT online order system and have the part delivered to your operation the very next day.

Unmatched service and support: All John Deere dealer technicians receive extensive, ongoing service and technical training. It provides every technician with the highest level of product knowledge and expertise…a competence that you’ll appreciate whether your machine needs a thorough overhaul or some quick advice on an error code. Plus, regional training centres keep them up to date on the latest product developments and service techniques.

ServiceAdvisor – John Deere’s exclusive machine diagnostic system – provides dealer technicians with immediate and accurate diagnostic information to help speed repairs and reduce machine downtime.

JDLink Select – JDLink Select is the perfect tool for remote machine management. This field kit option provides the customer with maintenance and machine location. Also, notifications are available if a machine leaves a predefined area or is started outside a predefined time-frame.

Convenient location and hours: John Deere dealers work your hours. Most are open on weekends so you can get the part or service you need as soon as possible. And during the harvest season, dealers provide extended service hours. It’s all part of our long term commitment to help keep your business running strongly.

You expect a lot from your machine. Your harvest window is getting shorter? You need an excellent performing machine? You need a reliable machine and you need reliable service in case anything happens?

That’s just what you can expect when you do business with John Deere and rely on genuine John Deere parts.

You expect a lot from your machine.
World-class parts and service … just around the world.
**Safety Cap:** black cotton 6 panel cap. All trims are reflective. John Deere and Safety logos.
Item No.: MC099578000

**Black Bonnet:** knitted hat with a yellow John Deere logo embroidered on the turn-up. 100% acrylic.
Item No.: MC099508000

**Overall:** sportswear style overall with fancy cut outs and topstitching. Press stud fastening, several useful pockets. Soil and stain resistant fabric. Material: 40% polyester, 60% cotton.
Available in sizes XS to XXL.
Item No.: MCM830250082 to 88

**Bib and Brace “Black”:** functional bib and brace in black with grey contrast seams and green details. Practical pockets and inside knee pad pockets. Stretch area in the back. Material: 35% cotton, 65% polyester. 245 g/m².
Available in sizes XS to XXL.
Item No.: MCS125222082 to 87

**Work Jacket “Black”:** black work jacket with grey contrast seams and green details. Several useful pockets. Adjustable cuffs and waist. Material: 35% cotton, 65% polyester. 245 g/m².
Available in sizes XS to XXL.
Item No.: MC630105038 to 46

**Bib and Brace “Black”:** functional bib and brace in black with grey contrast seams and green details. Practical pockets and inside knee pad pockets. Stretch area in the back. Material: 35% cotton, 65% polyester. 245 g/m².
Available in sizes XS to XXL.
Item No.: MCS125222082 to 87

**Work Jacket “Black”:** black work jacket with grey contrast seams and green details. Several useful pockets. Adjustable cuffs and waist. Material: 35% cotton, 65% polyester. 245 g/m².
Available in sizes XS to XXL.
Item No.: MC630105038 to 46

**Winter Jacket:** this insulated jacket will keep you warm. Reflective piping on the arms, chest and back. A detachable hood is built into the garment. Colours: green, black. Material: 100 % nylon, water and wind resistant. Available in sizes S to XXL.
Item No.: MCS113632002 to 87

**Black Bodywarmer:** quilted comfortable bodywarmer with our reflective security bands with one zip pocket inside. Microfibre outer. Polyester lined. Available in sizes M to XXL.
Item No.: MC0998100110 to 13.

**Reversible Safety Jacket:** a sensible precaution for any pedestrian close to traffic or working machines. Highly visible yellow jacket with reflective stripes on one side and black fleece jacket on the reverse side. Available in sizes M to XL.
Item No.: MC0999006000 to 809000

**Workhorse – Safety Boots:** EN 345/S3 safety boots for working professionals. Anti-static properties, slip and oil resistant outer sole, shock absorption in heel. Available in sizes 38 to 46.
Item No.: MCM830105038 to 46

**Leather Canvas Gloves:** rugged suede cowhide, leather finger tips & knuckle strap, shirred elastic, rubberized safety cuff. Fabric content: 100% cotton. Available in sizes M to XL.
Item No.: MC0989026000 to 828000

**Mechanics Skin Gloves:** premium deerskin suede leather. Water-repellent. Form-fitting stretch spandex. Adjustable wrist closure. More durable than synthetic leather. Fabric content: 100% polyester. Available in sizes M to XL.
Item No.: MC0989026000 to 834000

**Vacuum Thermos Flask “Farmer”:** double walled, stainless steel and vacuum insulated. Capacity: 1 l.
Item No.: MCH000110500

**1/16 John Deere T670i Combine:** Replica of the brand new John Deere T Series combine. Functions: off road independent and detachable cutting platform, movable reel and auger, grain tank can be emptied via an unloading auger, steerable, sculptured tyres.
Item No.: MC0992123000

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**Genuine John Deere Chemicals**

- **Chain & Cable Lubricant** MC 441 500 ml
- **Penetrating Oil** MC 430 500 ml
- **Glass Cleaner** MC 449 500 ml
- **Dry Silicon Release Spray** MC 406 500 ml
- **Brake & Parts Cleaner** MC 489 500 ml
- **Electric Contact Cleaner** MC 427 500 ml
- **Multi-Purpose Lubricant** MC 491 500 ml
- **Carburettor Choke Cleaner** MC 435 500 ml
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- **Carburettor Choke Cleaner** MC 435 500 ml

**Original John Deere Paints**

- **Green Spray JD** MCF 809 400 ml
- **Yellow Spray JD** MCF 808 400 ml
- **Green Paint JD** VFLK0392 700 ml
- **Yellow Paint JD** VFLK0393 700 ml

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**John Deere Collection**

**Paints & Chemicals**

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