

9YG-1.25 ISOBUS Round Baler (F441R)



OPERATOR'S MANUAL 9YG-1.25 ISOBUS Round Baler OMCC60338 ISSUE C8 (ANGLAIS)

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

Additional Proposition 65 Warnings can be found in this manual.

John Deere Arc-lès-Gray

Chinese Edition
PRINTED IN U.S.A.



Introduction

Foreword

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage. This manual and safety signs on your machine may also be available in other languages (see your John Deere dealer to order).

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing the direction the implement will travel when going forward.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specifications or Serial Number section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

BEFORE DELIVERING THIS MACHINE, your dealer performed a predelivery inspection. After operating for the first 100 hours, schedule an after-sale inspection with your dealer to ensure best performance.

THIS ROUND BALER IS DESIGNED SOLELY for use in customary agricultural or similar operations ("INTENDED USE"). Use in any other way is considered as contrary to

the intended use. The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the intended use.

THIS ROUND BALER SHOULD BE OPERATED, serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times. Any arbitrary modifications carried out on this round baler will relieve the manufacturer of all liability for any resulting damage or injury.

REGISTER USED PRODUCTS. If you purchased used John Deere products from an authorized John Deere dealer, the warranty registration information was updated by the dealer and requires no further information on your part.

If you purchased any used John Deere product from an auction, through a trader or from a farmer, please register it now. John Deere and John Deere dealers value their customer's safety and satisfaction. Your local John Deere dealer is best equipped to provide you superior levels of support for your machine. Please enter your product details and your address online, using the John Deere website corresponding to your country, and select the dealer of your choice.

CC03745,0001132 -19-19NOV13-1/1

Predelivery Inspection

The following checks, adjustment and service jobs were performed prior to delivery of the machine:

1. ☐ Wheel nuts have been tightened to specified torque. See Check Wheel Nut Torque in Preparing the Baler section.
2. ☐ Tire pressure has been checked and adjusted (if necessary). See Tire Inflation in Preparing the Baler section.
3. ☐ Tongue frame and trailer hitch fixing screws have been tightened to specified torque. See Yearly - Tongue Frame and Hitch in Lubrication and Maintenance section.
4. ☐ Gear case oil level checked and topped up (if necessary). See Lubrication and Maintenance section.
5. ☐ All grease fittings lubricated. See Lubrication and Maintenance section.
6. ☐ Chains are correctly tensioned and lubricated. See Lubrication and Maintenance and Service section.
7. ☐ Sensors correctly adjusted. See Service section.
8. ☐ Hydraulic hoses and connections have been checked and are free of leaks.
9. ☐ Paint and decals are smooth and neat.
10. ☐ The net knife has been wiped.
11. ☐ Battery harness has been installed (if necessary).
12. ☐ Test run of the machine has been made.
13. ☐ Gate opens and closes freely.
14. ☐ Monitor functioning properly.
15. ☐ Hydraulic gate lock device is functioning properly.
16. ☐ The precutter device is functioning properly.
17. ☐ Operator's Manual has been given to the customer.
18. ☐ All controls and safety rules have been explained to the customer.

Date:

Signature Dealer/Service Technician:

OUCC006,0001A62 -19-19APR13-1/1

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Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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Identification View

Identification View



CC277475

F441R Round Baler

NB02380,00001C5 -19-09AUG16-1/1

CC277475 —UN—10AUG16

Safety

Recognize Safety Information

This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



TS1389 —UN—28JUN13

DX,ALERT -19-29SEP98-1/1

Follow Safety Instructions

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



TS201 —UN—15APR13

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.

DX,READ -19-16JUN09-1/1

Understand Signal Words

DANGER; The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING; The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION; The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General

▲ DANGER

▲ WARNING

▲ CAUTION

precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

DX,SIGNAL -19-05OCT16-1/1

TS187 —19—30SEP88

Observe Road Traffic Regulations

Always observe local road traffic regulations when using public roads.



H28930 —UN—30JUN89

FX,ROAD -19-01MAY91-1/1

Store Attachments Safely

Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.



TS219 —UN—23AUG88

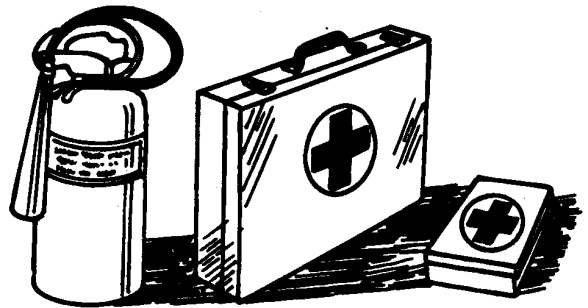
DX,STORE -19-03MAR93-1/1

Prepare for Emergencies

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



TS291 —UN—15APR13

DX,FIRE2 -19-03MAR93-1/1

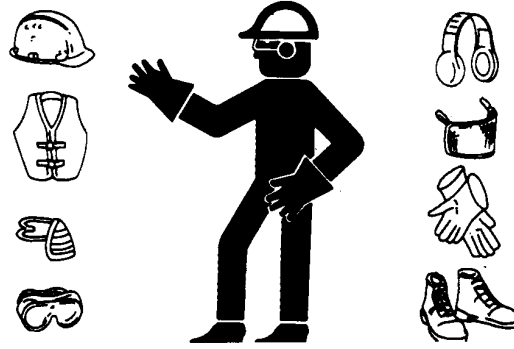
Wear Protective Clothing

Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

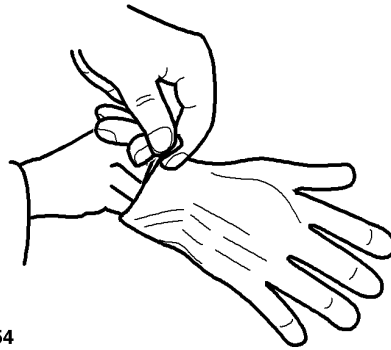


TS206 —UN—15APR13

DX,WEAR -19-10SEP90-1/1

Handling of Knives

Prevent personal injury by wearing safety gloves to handle knives.



CC1026954

CC1026928 —UN—26JAN05

OUCC006,0000DB6 -19-04JAN05-1/1

Check Machine Safety

Always check the road and general operating safety of the machine before using.

FX,READY -19-28FEB91-1/1

Stay Clear of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death.

Keep tractor master shield and driveline shields in place at all times. Make sure rotating shields turn freely.

Only use power take-off driveshafts with adequate guards and shields.

Wear close fitting clothing. Stop the engine and be sure that PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment.

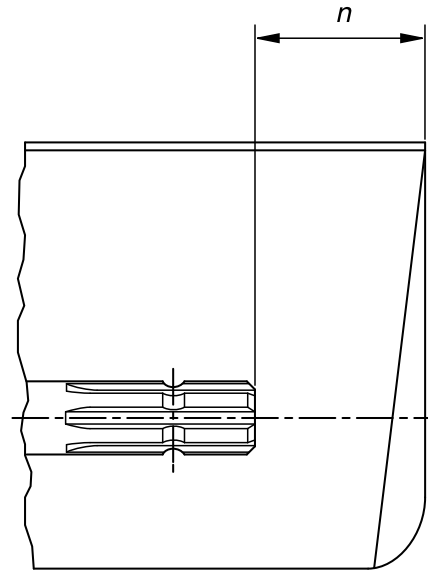
Do not install any adapter device between the tractor and the primary implement PTO driveshaft that will allow a 1000 rpm tractor shaft to power a 540 rpm implement at speeds higher than 540 rpm.

Do not install any adapter device that results in a portion of the rotating implement shaft, tractor shaft, or the adapter to be unguarded. The tractor master shield shall overlap the end of the splined shaft and the added adaptor device as outlined in the table.

The angle at which the primary implement PTO driveshaft can be inclined may be reduced depending on the shape and size of the tractor master shield and the shape and size of the guard of the primary implement PTO driveshaft.

Do not raise implements high enough to damage the tractor master shield or guard of primary implement PTO driveshaft. Detach the PTO driveline shaft if it is necessary to increase implement height. (See Attching/Detaching PTO Driveline)

When using Type 3/4 PTO, inclination and turning angles may be reduced depending on type of PTO master shield and coupling rails.



PTO Type	Diameter	Splines	$n \pm 5 \text{ mm (0.20 in.)}$
1	35 mm (1.378 in.)	6	85 mm (3.35 in.)
2	35 mm (1.378 in.)	21	85 mm (3.35 in.)
3	45 mm (1.772 in.)	20	100 mm (4.00 in.)
4	57.5 mm (2.264 in.)	22	100 mm (4.00 in.)

DX,PTO -19-28FEB17-1/1

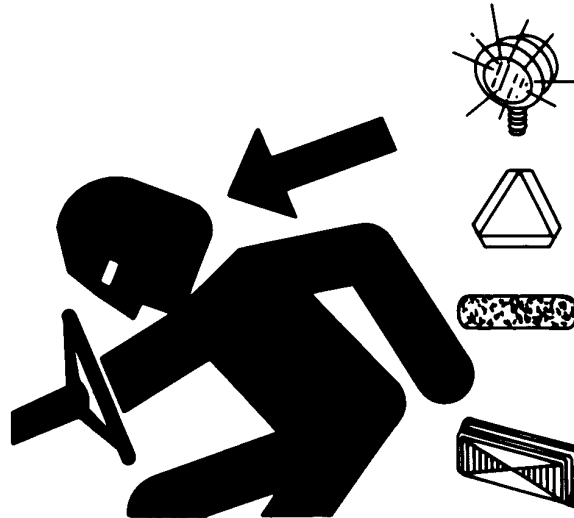
TS1644 —UN—22AUG95

H96219 —UN—29APR10

Use Safety Lights and Devices

Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use turn signal lights.

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible, clean, and in good working order. Replace or repair lighting and marking that has been damaged or lost. An implement safety lighting kit is available from your John Deere dealer.



TS951—UN—12APR90

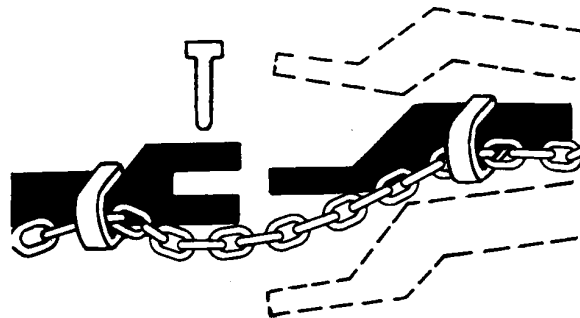
DX,FLASH -19-07JUL99-1/1

Use a Safety Chain

A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning.

See your John Deere dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine. Do not use safety chain for towing.



TS217—UN—23AUG88

DX,CHAIN -19-03MAR93-1/1

Observe Maximum Transport Speed

IMPORTANT: Maximum transport speed is determined by local road traffic regulations and speed capability of this implement.

Always observe local road traffic regulations when driving on public roads.

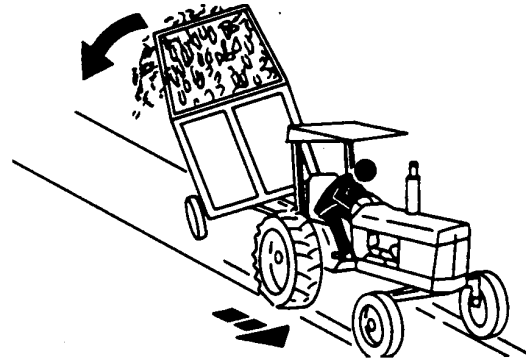
NOTE: See your John Deere dealer for more information.

Do not exceed implement gross weight (PTAC) when towing this implement at transport speed.

Some tractors are capable of operating at speeds that exceed the maximum transport speed capability of this implement. Regardless of the maximum speed capability of the tractor being used to tow this implement, do not exceed the implement's maximum transport speed.

Exceeding the implement's maximum transport speed can result in:

- Loss of control of the tractor/implement combination



- Reduced or no braking ability
- Implement tire failure
- Damage to the implement structure or its components

Use additional caution and reduce speed when towing under adverse surface conditions, when turning, and when on inclines.

OUC007,00018D5 -19-15DEC10-1/1

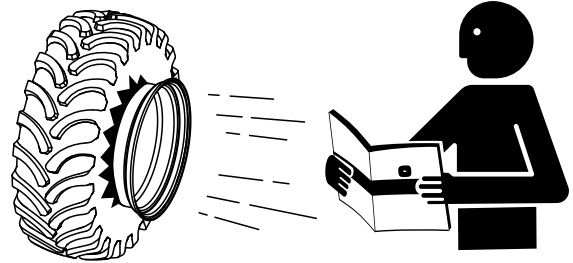
T5216 —UN—23AUG88

Follow Tire Recommendations

Keep your machine in proper working order.

Use only prescribed tire sizes with correct ratings and inflate to the pressure specified in this manual.

Use of other than prescribed tires may decrease stability, affect steering, result in premature tire failure, or cause other durability or safety issues.



DX,TIRE,INFO -19-19MAY14-1/1

H111235 —UN—13MAY14

Service Tires Safely

Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims, or missing lug bolts and nuts.



Wheels and tires are heavy. When handling wheels and tires use a safe lifting device or get an assistant to help lift, install, or remove.

DX,WW,RIMS -19-28FEB17-1/1

RXA0103438 —UN—11JUN09

Check Ballast, Wheel Spacing and Tire Inflation

Make sure ballast, wheel spacing and tire inflation are sufficient to ensure tractor and machine stability in all conditions, especially when operating on hilly fields or in other adverse conditions. Refer to the tractor operator's manual.



CC1031622

OUCC006,0001546 -19-29MAY09-1/1

CC1031622 —UN—29MAY09

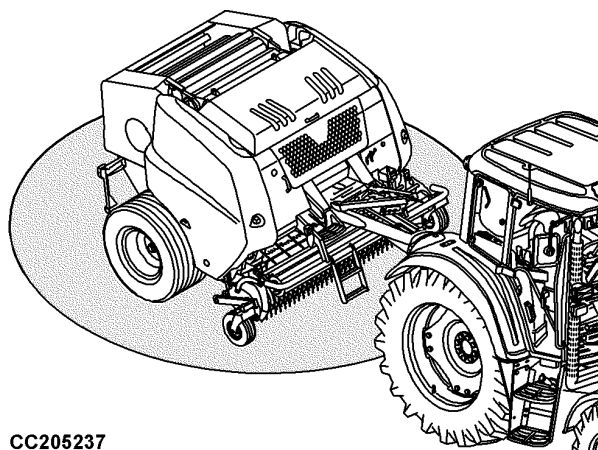
Operate Baler Safely

To avoid injury or death by being pulled into the machine:

DO NOT attempt to feed crop or twine into baler or unplug feed area WHILE BALER IS RUNNING. The baler feeds material faster than you can release it.

Disengage PTO and shut off engine.

Stand clear of baler at all times when machine is operating.



CC205237

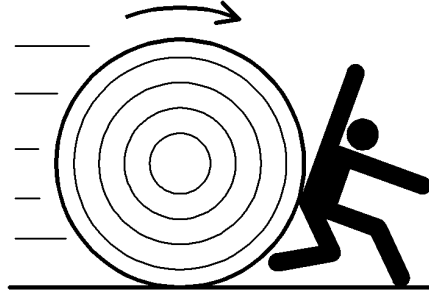
OUCC006,0001ACC -19-30AUG13-1/1

CC205237 —UN—16OCT13

Operate Baler Safely on Slopes

Be especially careful when operating on hillsides. The baler may tip sideways if it strikes a hole, ditch, or other irregularity.

To prevent injury or damage from a rolling bale, discharge bales on level ground or in such a manner that the bale will not roll.



CC1038683

CC1038683 —UN—19NOV12

OUCC006,00019C8 -19-16NOV12-1/1

Fire Prevention

To reduce risk of fire, follow these guidelines, especially in dry crop conditions:

- Clean the machine several times during the baling day depending on baling conditions, see Clean the Machine to Prevent Fire in Operating the Baler—General Purposes section.
 - Do not smoke around the baler or in the fields.
 - Never stop baling with crop material in the bale chamber.
 - Promptly eject bales after they have been bound.
 - Do not use the machine to transport bales.
 - Use extreme care if it is necessary to park the machine in a field. Whenever possible, park the machine on bare ground or in an area surrounded by bare ground.
 - Before leaving the machine which has been operating, verify that there are no areas which are hot enough to start a fire.
 - Do not leave the machine unattended near bales which have been baled wet, because spontaneous combustion can occur.
- Check regularly the condition of bearings, see Daily: Fire Prevention in Lubrication and Maintenance section.



If noticeable changes in machine performance occur which indicate a part is beginning to fail, stop baling immediately and investigate the cause of any sounds, smells, or sights which are unusual.

- Equip the machine with 9.5 L or more pressurized water tank, see Operate Pressurized Water Tank in Operating the Baler—General Purposes section.
- Follow the fire prevention guidelines for service work, see Before Each Service in Service section.

TS227 —UN—15APR13

CC03745,0001243 -19-09AUG17-1/1

In Case of Fire

Stop work immediately at first sign of trouble. This may be a scorched smell, an unusual sound, or the sight of smoke or flame.

CAUTION: Do not risk personal injury. If a fire is too far advanced, do not try to extinguish it. Evacuate as fast as possible the area. Call the fire department.

If you can safely extinguish the fire:

- Position the tractor upwind from the machine to prevent the fire from overtaking the tractor.
- Open the baler gate to eject any crop material from the bale chamber, and drive away from this material.
- Use pressurized water tank or other source of extinguishing agent and direct extinguishing agent at

the base of the flames, and also cool adjacent parts. Do not position yourself under an open baler gate. It may fall if the machine is on fire.



TS227 —UN—15APR13

DC82261,00004DA -19-13AUG14-1/1

Secure Gate Safely

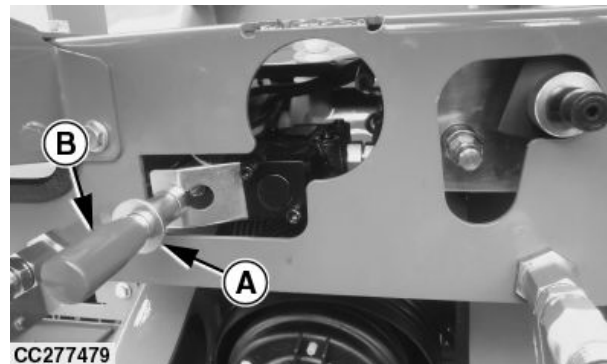
CAUTION: To avoid injury, stay clear of gate while it is being raised and lowered.

Clear area of bystanders before operating gate.

Before working on or around baler with gate in raised position, engage gate lock. To engage gate lock, pull bushing (A) and move lever (B) in lock position, see [Gate Lock Valve](#) in Operating the Baler—General Purposes Section.

The gate can be locked in any position by means of the gate lock valve.

Remove any foreign objects from machine. See Operating the Baler—General Purposes Section.



A—Lock Bushing

B—Gate Lock Lever

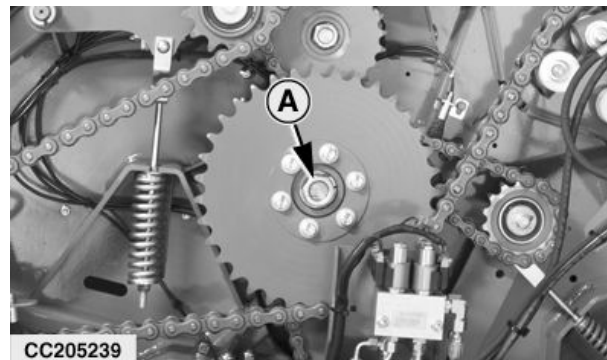
CC277479 —UN—30NOV16

NB02380,0000151 -19-29NOV16-1/1

Service Baler Safely

Use a spanner to turn nut (A) to aid in servicing. Never use any type of tool or spanner on shaft while tractor engine is running. Always remove tool from shaft as soon as you have finished using it.

A—Nut



CC205239 —UN—10OCT13

OUC006,0001ACF -19-30AUG13-1/1

Maximum Hydraulic Operating Pressure

The baler is designed for a maximum hydraulic operating pressure of 20000 kPa (200 bar, 2900 psi).

Do not connect baler to a tractor with a maximum hydraulic operating pressure over 20000 kPa (200 bar, 2900 psi).

OUCC006,0000487 -19-05SEP01-1/1

Practice Safe Maintenance

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing away from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Falling while cleaning or working at height can cause serious injury. Use a ladder or platform to easily reach each location. Use sturdy and secure footholds and handholds.



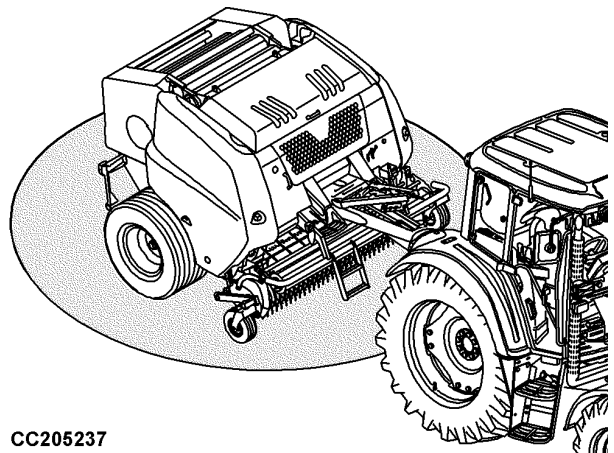
TS218 —UN—23AUG88

DX,SERV -19-28FEB17-1/1

Protect People and Animals

Never allow anyone to walk or work near a running machine.

Be sure that people or animals are not standing in the working area of the machine while operating.



CC205237

CC205237 —UN—16OCT13

OUCC006,0001ACD -19-30AUG13-1/1

Avoid High-Pressure Fluids

Inspect hydraulic hoses periodically – at least once per year – for leakage, kinking, cuts, cracks, abrasion, blisters, corrosion, exposed wire braid or any other signs of wear or damage.

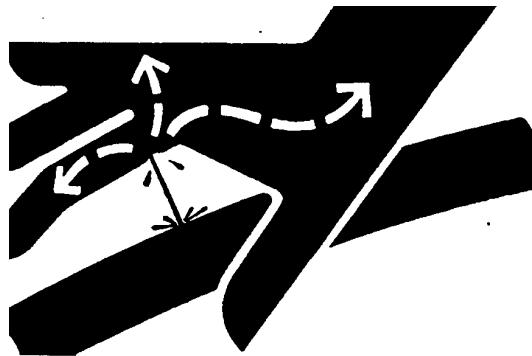
Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within



a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available in English from Deere & Company Medical Department in Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.

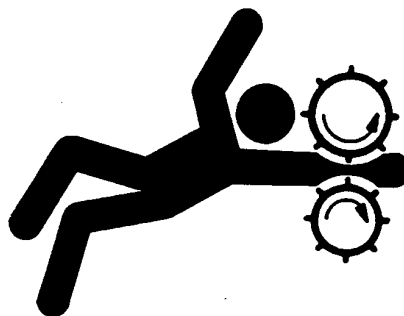
DX,FLUID -19-12OCT11-1/1

X9811—UN—23AUG88

Service Machines Safely

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



DX,LOOSE -19-04JUN90-1/1

TS228—UN—23AUG88

Remove Paint Before Welding or Heating

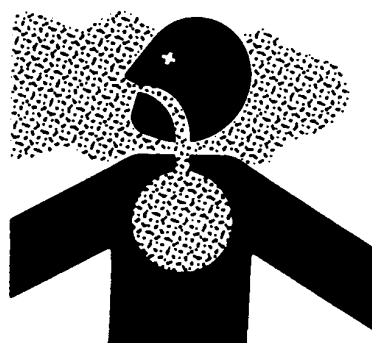
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Remove paint before heating:

- Remove paint a minimum of 100 mm (4 in.) from area to be affected by heating. If paint cannot be removed, wear an approved respirator before heating or welding.
- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

Do not use a chlorinated solvent in areas where welding will take place.



Do all work in an area that is well ventilated to carry toxic fumes and dust away.

Dispose of paint and solvent properly.

DX,PAINT -19-24JUL02-1/1

TS220—UN—15APR13

Avoid Heating Near Pressurized Fluid Lines

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can accidentally burst when heat goes beyond the immediate flame area.



DX,TORCH -19-10DEC04-1/1

TS953 —UN—15MAY90

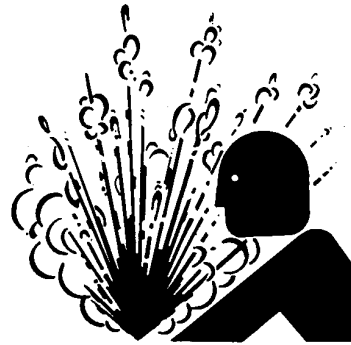
Service Accumulator Systems Safely

Escaping fluid or gas from systems with pressurized accumulators that are used in air conditioning, hydraulic, and air brake systems can cause serious injury. Extreme heat can cause the accumulator to burst, and pressurized lines can be accidentally cut. Do not weld or use a torch near a pressurized accumulator or pressurized line.

Relieve pressure from the pressurized system before removing accumulator.

Relieve pressure from the hydraulic system before removing accumulator. Never attempt to relieve hydraulic system or accumulator pressure by loosening a fitting.

Accumulators cannot be repaired.



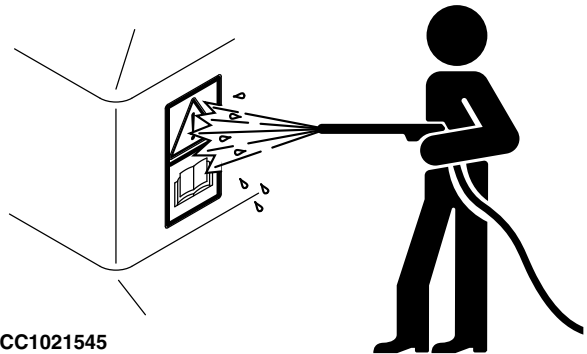
DX,WW,ACCLA2 -19-22AUG03-1/1

TS281 —UN—15APR13

Avoid High-Pressure Jet on Safety Signs

Pressurized water can remove or damage safety signs. Avoid to direct high-pressure jet on safety signs.

Immediately replace missing or damaged safety signs. Replacement safety signs are available from your John Deere dealer.



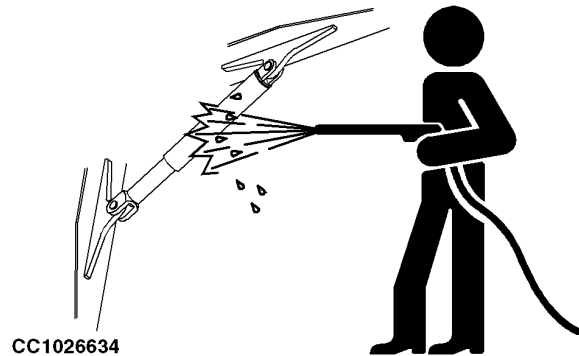
CC1021545

CC03745.0001031 -19-23JUN11-1/1

CC1021545 —UN—23APR02

Avoid High-Pressure Jet on Cylinders

Pressurized water can damage cylinders. Avoid to direct high-pressure jet on cylinders.



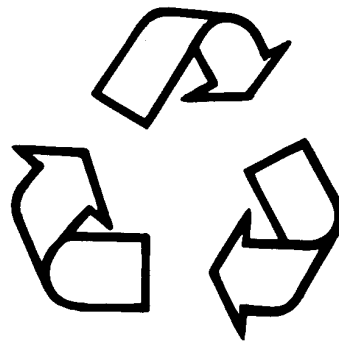
CC1026634 —UN—03DEC04

CC03745,0000FD3 -19-08SEP09-1/1

Decommissioning — Proper Recycling and Disposal of Fluids and Components

Safety and environmental stewardship measures must be taken into account when decommissioning a machine and/or component. These measures include the following:

- Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or glasses, during the removal or handling of objects and materials.
- Follow instructions for specialized components.
- Release stored energy by lowering suspended machine elements, relaxing springs, disconnecting the battery or other electrical power, and releasing pressure in hydraulic components, accumulators, and other similar systems.
- Minimize exposure to components which may have residue from agricultural chemicals, such as fertilizers and pesticides. Handle and dispose of these components appropriately.
- Carefully drain engines, fuel tanks, radiators, hydraulic cylinders, reservoirs, and lines before recycling components. Use leak-proof containers when draining fluids. Do not use food or beverage containers.
- Do not pour waste fluids onto the ground, down a drain, or into any water source.
- Observe all national, state, and local laws, regulations, or ordinances governing the handling or disposal of waste fluids (example: oil, fuel, coolant, brake fluid);



TS1133 —UN—15APR13

filters; batteries; and, other substances or parts.

Burning of flammable fluids or components in other than specially designed incinerators may be prohibited by law and could result in exposure to harmful fumes or ashes.

- Service and dispose of air conditioning systems appropriately. Government regulations may require a certified service center to recover and recycle air conditioning refrigerants which could damage the atmosphere if allowed to escape.
- Evaluate recycling options for tires, metal, plastic, glass, rubber, and electronic components which may be recyclable, in part or completely.
- Contact your local environmental or recycling center, or your John Deere dealer for information on the proper way to recycle or dispose of waste.

DX,DRAIN -19-01JUN15-1/1

Safety Signs

Pictorial Safety Signs

At several important places of this machine safety signs are affixed intended to signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information how to avoid personal injury. These safety signs, their placement on the machine and a brief explanatory text are shown below.

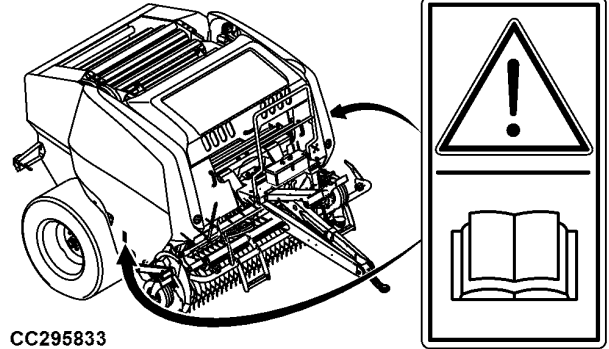


FX,WBZ -19-19NOV91-1/1

TS231 —19—07OCT88

Operator's Manual

This operator's manual contains all important information necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.



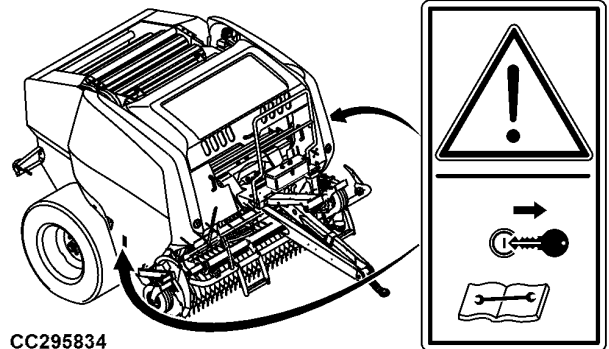
CC295833

JC87117,00002C2 -19-17OCT16-1/1

CC295833 —UN—17OCT16

Repair and Maintenance

Before carrying out adjustment, repair and maintenance work, engage park brake and/or place transmission in PARK, shut off tractor engine and remove key.



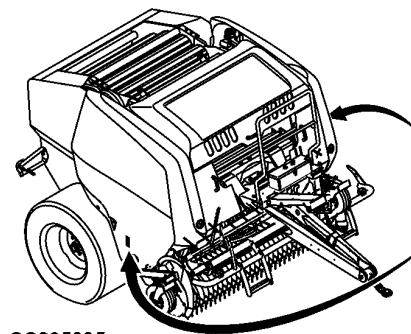
CC295834

JC87117,00002C3 -19-17OCT16-1/1

CC295834 —UN—17OCT16

Drive Chains

Do not open or remove guard when the baler is running.



CC295835

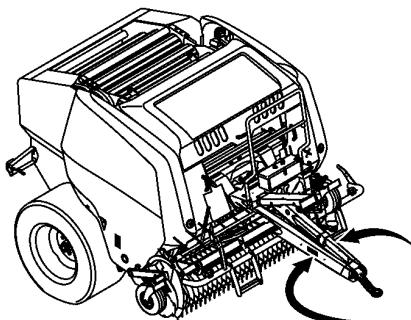


CC295835 —UN—17OCT16

JC87117,00002C4 -19-17OCT16-1/1

Baler Telescoping Driveline

Stay clear of rotating driveline to avoid personal injury.



CC295836

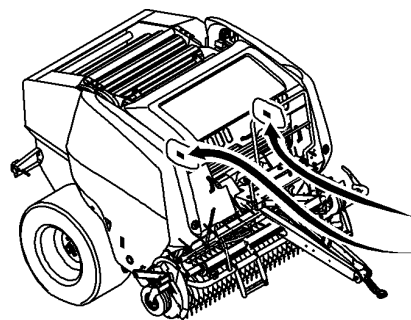


CC295836 —UN—17OCT16

JC87117,00002C5 -19-17OCT16-1/1

Baler Rolls

Stay clear of rotating baler rolls to avoid personal injury.



CC295845



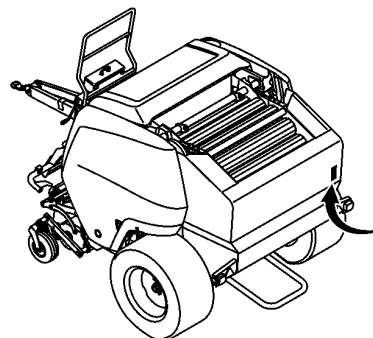
CC295845 —UN—17OCT16

JC87117,00002CF -19-18OCT16-1/1

Bale Unload

Do not allow anyone to walk or work at the rear of the baler.

Stay clear of rear of the baler while a bale is dumped as it may result in serious injury or death.



CC295837



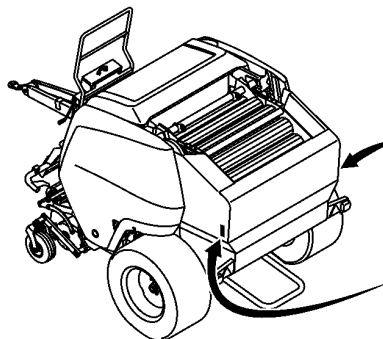
CC295837 —UN—17OCT16

JC87117,00002CC -19-17OCT16-1/1

Raised Gate

Do not allow anyone to walk or work under a raised gate.

Stay clear of raised gate as it could close faster than you can move away and may result in death or serious injury.



CC295838



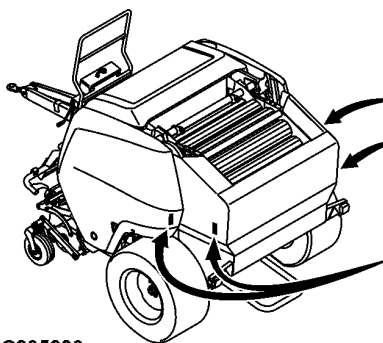
CC295838 —UN—17OCT16

JC87117,00002CD -19-17OCT16-1/1

Gate Safety Lock

Always engage the gate safety lock before working under or around the gate in raised position.

Stand clear before unlocking the gate safety lock.



CC295839



CC295839 —UN—17OCT16

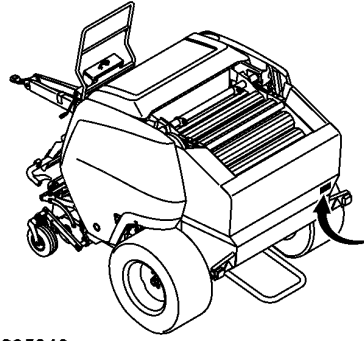
JC87117,00002CE -19-17OCT16-1/1

Gate Opening

Do not allow anyone to walk or work at the rear of the machine.

Stay clear of rear of the baler while the gate is raising.

The gate opens faster than you can move away and may result in death or serious injury.



CC295840



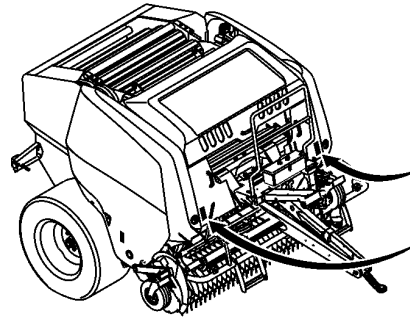
CC295840 —UN—17OCT16

JC87117,00002C7 -19-17OCT16-1/1

Pickup

Rotating pickup can catch you faster than you can move away.

Stay clear of rotating pickup as it may result in death or serious injury.



CC295841

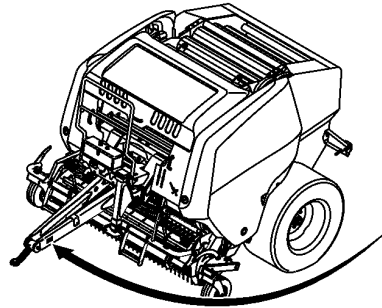


CC295841 —UN—17OCT16

JC87117,00002C8 -19-17OCT16-1/1

Hitch Plate Attaching Screw

Retighten hitch plate attaching screw at specified intervals.



CC295842

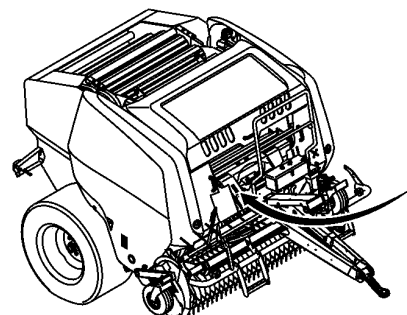


CC295842 —UN—17OCT16

JC87117,00002C9 -19-17OCT16-1/1

Tongue Frame Attaching Screws

Retighten tongue frame attaching screws at specified intervals.



CC295843

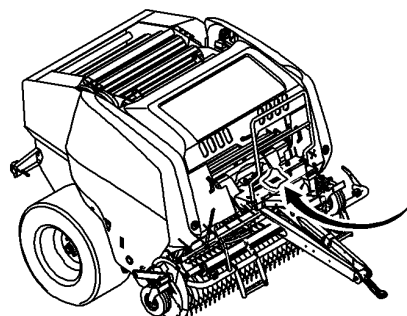


CC295843 —UN—17OCT16

JC87117,00002CA -19-17OCT16-1/1

Hydraulic Accumulators

The hydraulic accumulators are under pressure. Have the accumulators removed and maintained by your John Deere dealer only. The dealer must follow the instructions in the Technical Manual.



CC287047

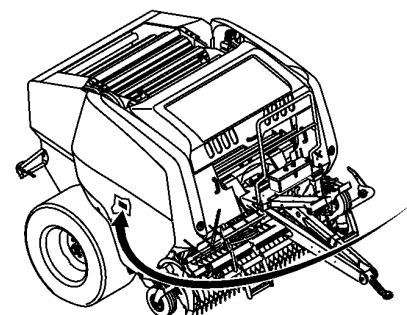


CC287047 —UN—10OCT16

JC87117,00002B3 -19-10OCT16-1/1

Compressed Air Tank

The compressed air tank is under pressure. Have the tank removed and repaired by a John Deere dealer only.



CC295844



CC295844 —UN—17OCT16

JC87117,00002CB -19-17OCT16-1/1

Preparing the Tractor

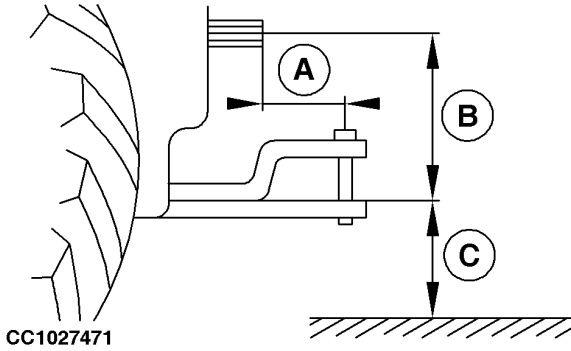
Adjust Drawbar

IMPORTANT: Before attaching baler, be sure to adjust drawbar. Re-install all shields.

Vertically align drawbar hitch pin hole with centerline of tractor PTO shaft.

Set drawbar to the following specifications:

Specification	
End of PTO shaft to drawbar hitch pin hole axis (A)—Distance.....	350 mm (1 ft. 2 in.)
PTO shaft centerline to drawbar upper face (B)—Distance.....	150 — 305 mm (6 — 12 in.)
Ground to drawbar upper face (C)—Distance.....	330 — 510 mm (13 — 20 in.)



A—350 mm (1 ft. 2 in.) C—330 — 510 mm (13 — 20 in.)
B—150 — 305 mm (6 — 12 in.)

OUCC849,0000124 -19-08NOV10-1/1

Select Tractor PTO Speed

NOTE: Refer to tag on the front of the baler to select tractor PTO speed.

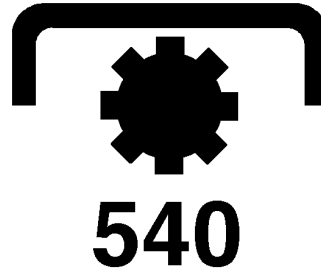
Baler with 540 rpm gear case:

IMPORTANT: Under no circumstances should a baler equipped for 540 rpm PTO drive be operated with a tractor at 750 or 1000 rpm PTO speed. Always run tractor at rated PTO speed. Overspeed will damage baler.

The tractor PTO shaft size must be 3.5 cm (1-3/8 in.).

Always operate the baler with tractor PTO speed at 540 rpm.

Refer to the tractor Operator's Manual to install the appropriate PTO shaft and set the PTO speed.



CC1020007

OUCC006,00019B9 -19-13NOV12-1/2

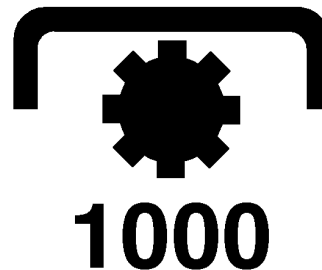
Baler with 1000 rpm gear case:

IMPORTANT: Under no circumstances should a baler equipped for 1000 rpm PTO drive be operated with a tractor at 540 or 750 rpm PTO speed. Always run tractor at rated PTO speed. Overspeed will damage baler.

The tractor PTO shaft size must be 3.5 cm (1-3/8 in.).

Always operate the baler with tractor PTO speed at 1000 rpm.

Refer to the tractor Operator's Manual to install the appropriate PTO shaft and set the PTO speed.



CC007602

OUCC006,00019B9 -19-13NOV12-2/2

Adjust Tractor Selective Control Valves

Set tractor selective control valves to approximately 30—35 L/min (7.9—9.2 US gal/min) flow. This flow should allow the gate to open within approximately 3 seconds. See your tractor operator's manual to make adjustments.

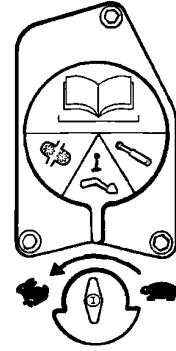
For 3000 Series tractors, make sure the SCV lever is in neutral position when SCV is not used.

For 5000 Series tractors, do not push SCV lever fully forward to allow lever to return to neutral when released.

For 6000 and 7000 Series tractors, adjust SCV lever for no detent, so lever returns to neutral when released.

For tractors with detent time, set detent time to 0.

CC000833

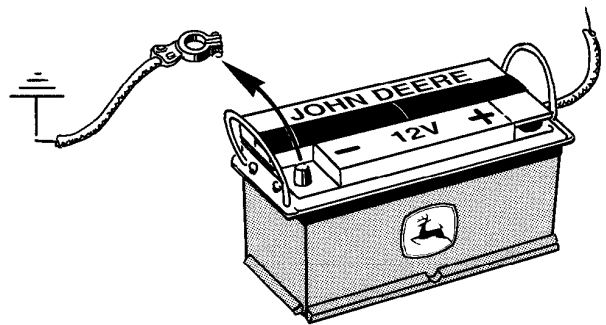


CC000833 —UN—05APR95

OUCC006,0001B35 -19-04OCT13-1/1

Round Baler Electrical Circuit and Control Power Supply Requirement

The round baler electrical circuit and control are designed for use on 12 V electrical systems with negative ground.



CC1020363

CC1020363 —UN—23AUG01

CC03745,0000288 -19-23AUG01-1/1

Install Virtual Terminal (Display) Portable Harness (If Equipped)

IMPORTANT: The battery harness (C) must be connected to the tractor as shown. Ensure that wire (E) is only electrically powered when tractor ignition key is turned ON.

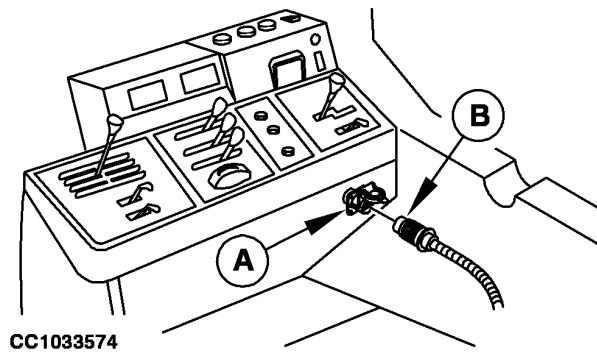
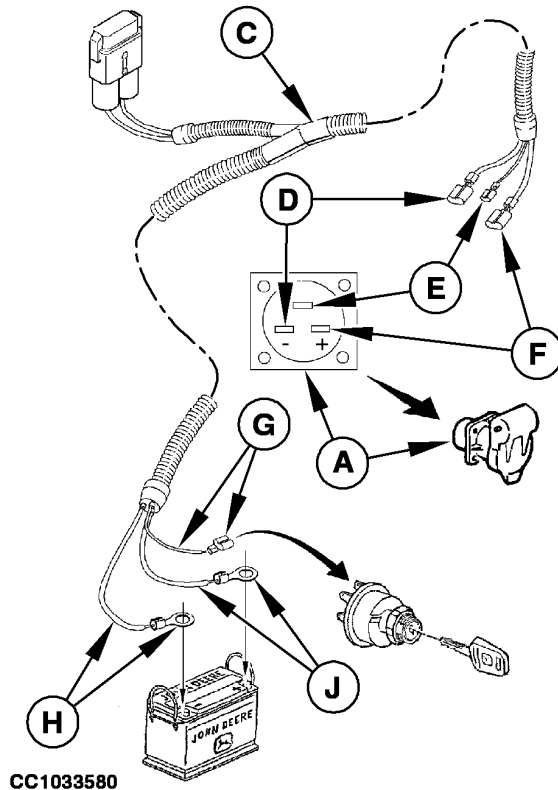
If the tractor is not equipped with the convenient power outlet (A), see your John Deere dealer.

Connect the virtual terminal (display) to the portable harness.

Connect portable harness plug (B) to the convenient power outlet (A).

Place the connector for the machine harness out of the cab.

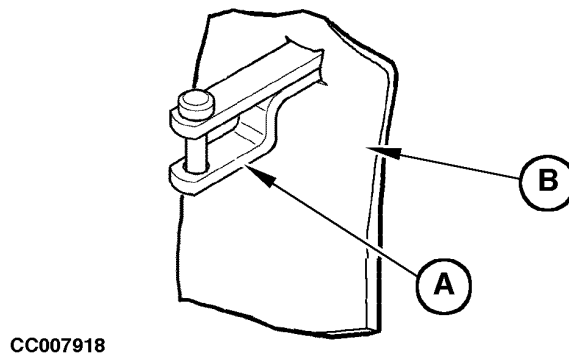
- | | |
|--|--|
| A—Convenience Power Outlet | F—Red (Positive Permanent) Wire (6.0 mm ²) |
| B—Portable Harness Plug | G—Red (Positive if Ignition Key Turned ON) Wire (1.5 mm ²) |
| C—Battery Harness | H—Black (Negative) Wire (6.0 mm ²) |
| D—Black (Negative) Wire (6.0 mm ²) | J—Red (Positive Permanent) Wire (6.0 mm ²) |
| E—Red (Positive if Ignition Key Turned ON) Wire (1.5 mm ²) | |



OUC006,0001B29 -19-01OCT13-1/1

Using Drawbar Shield

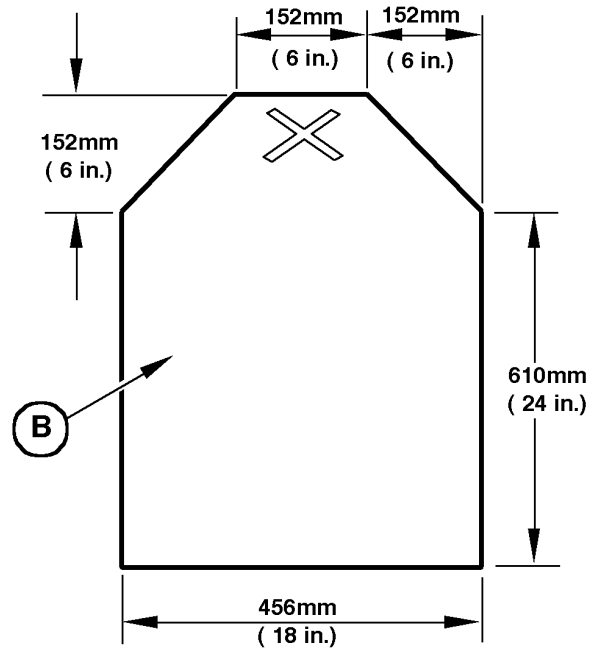
If a tractor drawbar (A) catches and disturbs the windrow under the tractor, a drawbar shield (B) can be used.



Continued on next page

CC,570RB 003439 -19-15SEP98-1/2

Use the sketch opposite as an example to make a shield (B) using 2 or 4 ply belting.



CC007919

CC007919 —UN—25NOV96

CC,570RB 003439 -19-15SEP98-2/2

Preparing the Baler

Adjust Tongue

The tongue can be adjusted either at the articulation of the hitch plate or at the tongue base articulation to meet all tractor configurations.

NOTE: It is better to attach equipment on tractor trailer hitch in order to increase clearance between ground and baler tongue. This position is convenient when baling thick windrows.

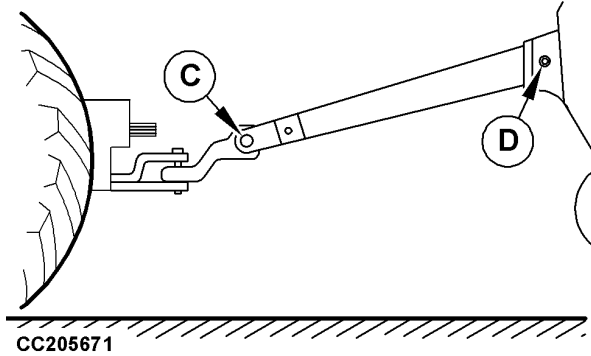
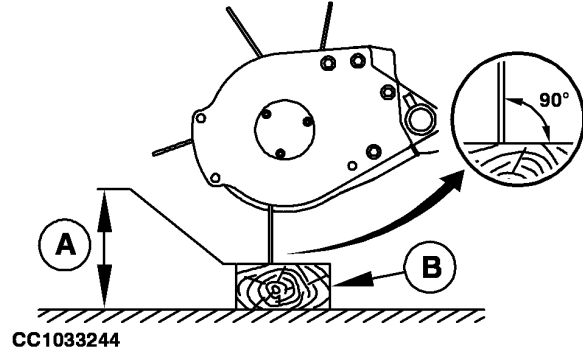
IMPORTANT: Before adjusting the tongue, be sure that the tire inflation is correct. See [Tire Inflation](#) in Preparing the Baler section.

1. Attach baler to tractor.
2. Park tractor and baler on a firm and level ground. Engage tractor park brake.
3. Fully raise pickup by using tractor selective control valve lever.
4. Remove gauge wheels.
5. Install a wood block (B) with a specified thickness (A) under the pickup:

Specification

Wood Block—Thickness..... 20 mm
(0-3/4 in)

6. Lower the pickup until pickup teeth are in contact with wood block (B) as shown.
7. Place tractor pickup selective control valve lever in floating position.
8. Install jackstand so that it just touches the ground without changing the position of the baler. See [Unfold Jackstand](#) in Detaching Section.



A—Thickness
B—Wood Block

C—Hitch Fixing Screw
D—Tongue Frame Fixing Screw

9. Loosen hitch fixing screw (C), then loosen tongue frame fixing screws (D) on both sides to ensure that the two tongue frames may be raised or lowered.

NB02380,0000166 -19-17OCT16-1/4

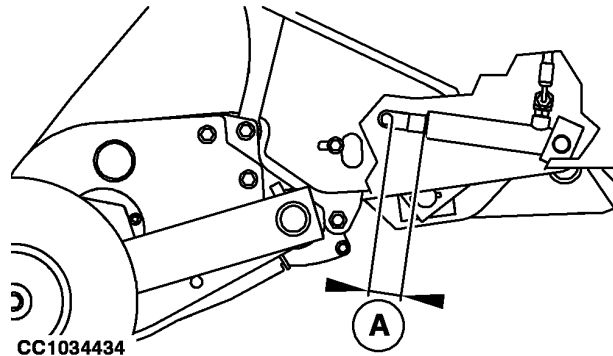
10. Check that distance (A) on pickup hydraulic cylinder is within following specification:

Specification

Pickup Hydraulic Cylinder
Rod—Distance..... 30—65 mm
(1.18—2.56 in)

11. If necessary, raise or lower the front of the baler by using jackstand in order to obtain specified distance (A).

A—Distance



Continued on next page

NB02380,0000166 -19-17OCT16-2/4

12. Set hitch (C) as horizontal as possible and check that the two tongue frames are at the same level.

13. Slightly tighten tongue frame fixing nuts (D), lock nuts (E) and hitch fixing screw (B) then check that pickup hydraulic cylinder distance described under step 10 is within specification.

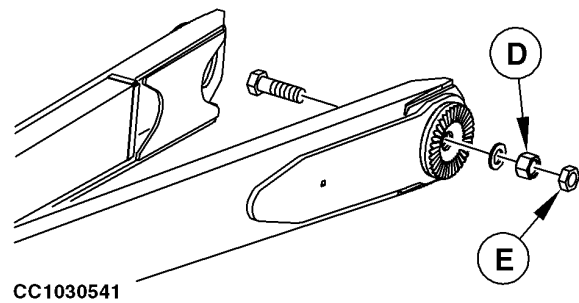
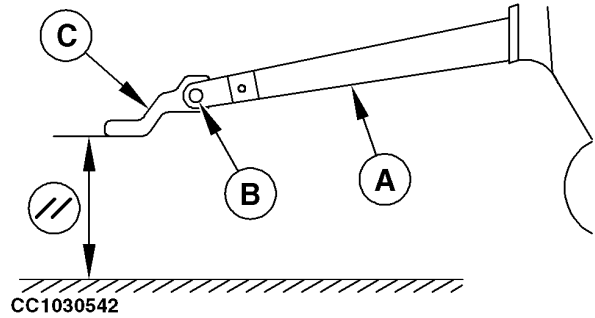
- If not OK, repeat procedure from step 9 by slightly raising or lowering the front of the baler with jackstand accordingly.
- If OK, continue.

NOTE: Make sure that all rings are engaged (not standing tip to tip) when tightening screw (B) as well as nuts (D) and (E).

14. Tighten tongue frame fixing nuts (D), lock nuts (E) and hitch fixing screw (B) to specified torque:

Specification	
Tongue Frame Fixing	
Nuts—Torque.....	700 N·m (516 lb·ft)
Tongue Frame Lock	
Nut—Torque.....	300 N·m (221 lb·ft)
Hitch Fixing	
Screw—Torque.....	620 N·m (450 lb·ft)

IMPORTANT: Slowly and carefully perform a short test with baler attached to the tractor. Check that there is no interference between tongue frame (A) and telescoping driveline in short turns. Major damage to telescoping driveline could occur.



A—Tongue Frame
B—Hitch Fixing Screw
C—Hitch

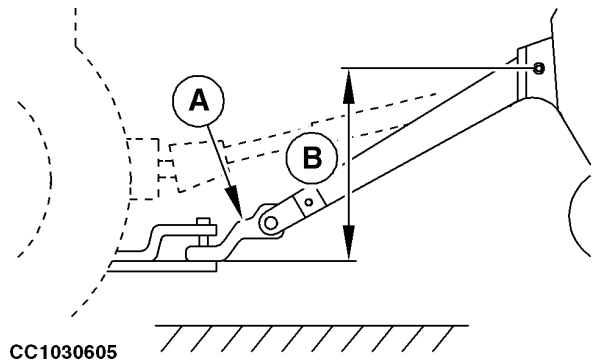
D—Nut
E—Lock Nut

NB02380,0000166 -19-17OCT16-3/4

15. If baler is attached to the tractor drawbar, ensure that offset (B) is within specification.

IMPORTANT: Maximum allowed offset (B) between tongue base articulation and hitch (A) must be within specification.

Specification	
Hitch-to-Tongue Base	
Articulation—Maximum	
Offset.....	700 mm (2 ft 3.5 in)



A—Hitch

B—Offset

NB02380,0000166 -19-17OCT16-4/4

16. Reinstall gauge wheels.

Install Standard Gauge Wheels in Working Position

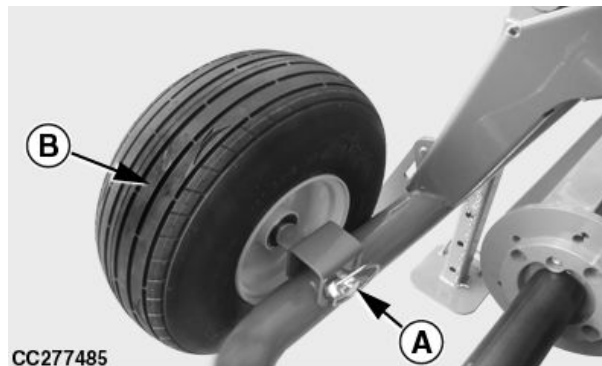
1. Remove quick-lock pin (A).
2. Remove gauge wheel (B) from its bracket.
3. Position gauge wheel (B) on pickup as shown. Secure it with quick-lock pin (A).
4. Repeat procedure on opposite side.

A—Quick-Lock Pin

B—Gauge Wheel



CC200792 —UN—12APR13



CC277485 —UN—18JUL16

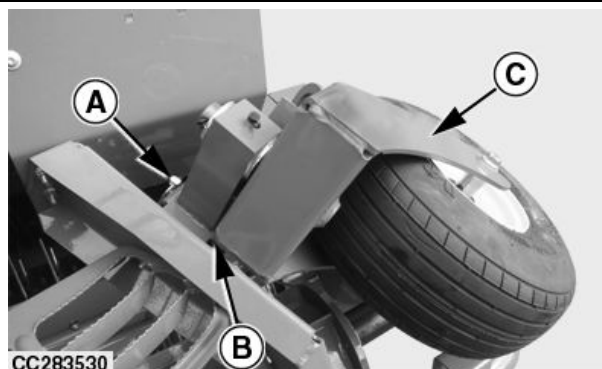
NB02380,00003E1 -19-04APR17-1/1

Install Caster Gauge Wheels in Working Position

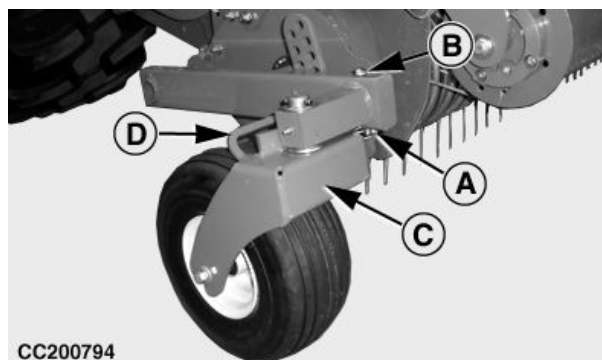
1. Remove quick-lock pin (A) and pin (B).
2. Remove caster gauge wheel (C) from its bracket.
3. Position caster gauge wheel (C) on pickup with handle (D) as shown and secure it with pin (B) and quick-lock pin (A).
4. Repeat procedure on opposite side.

A—Quick-Lock Pin
B—Pin

C—Caster Gauge Wheel
D—Caster Gauge Wheel Handle



CC283530 —UN—18JUL16



CC200794 —UN—12APR13

NB02380,00003E2 -19-04APR17-1/1

Select Net Roll

In order to achieve optimum performance, we recommend the use of the **John Deere** net roll which meets the following specifications:

- Material width (A) for the standard net roll: 1225 ± 10 mm (3 ft. 11.8 in. to 4 ft. 0.6 in.).
- Material width (A) for the COVER-EDGE™ net roll: 1295 ± 10 mm (4 ft. 2.6 in. to 4 ft. 3.4 in.).
- Core width (B) for the standard net roll: Maximum 1255 mm (4 ft. 1.4 in.).
- Core width (B) for the COVER-EDGE™ net roll: Maximum 1320 mm (4 ft. 4 in.).

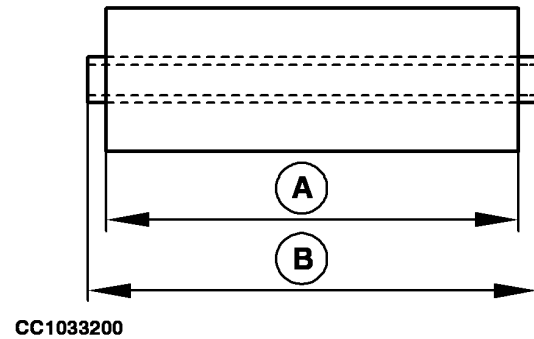
IMPORTANT: Net roll diameter must not exceed 30 cm (11.8 in.).

Baler net binding is not compatible with the John Deere B-Wrap net.

NOTE: To adjust the number of net turns applied during a binding cycle, see [Adjust Net Binding in Operating Baler Application](#) section.

A—Material Width

B—Core Width



CC1033931 —UN—15SEP11

CC1033200 —UN—05AUG10

CC03745,0001233 -19-08AUG17-1/1

Care of Net Roll

IMPORTANT: Protect net roll material from moisture and damage. Do not remove protective covering until ready for use. Snags can cause erratic

performance and affect bale weatherability. Do not use sticky tape directly on net.

Store in a cool, dry place, away from direct sunlight.

CC03745,000023B -19-05JUL01-1/1

Care of Net Binding Device

Before operating the baler, proceed as follows:

Wipe out feed rolls and check for any sticky material. NEVER use aggressive cleaning agents such as petrol, benzene, turpentine oil, or similar cleaning solvents to clean rubber feed roll.

IMPORTANT: Never apply any talcum on the rubber roll.

It is recommended to use:

- Water
- Soap water

CC03745,0001234 -19-09AUG17-1/1

Load Net Roll

CAUTION: Before installing net roll, disengage PTO, engage park brake, shut off the tractor engine and, remove key. Wait for all moving parts to come to a standstill.

CAUTION: Net binding cover (A) is spring loaded and moves up quickly when released.

Install net roll:

1. Open right-hand side door.
2. Open the net binding cover (A) by using handle (B).
3. Remove all package material (staples, tape, etc.).
4. For the standard net roll only, remove stops (C) from their bracket and install them on each side of the net roll.

NOTE: CoverEdge™ net roll does not need stops (C).

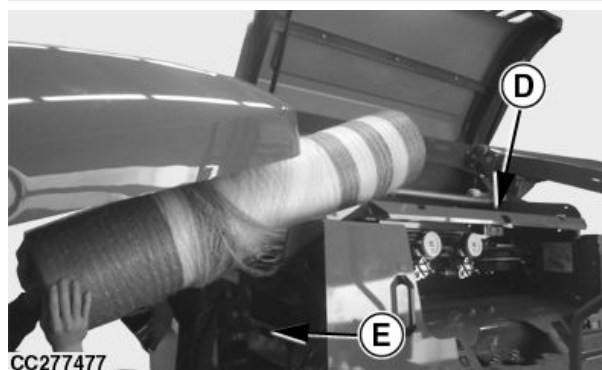
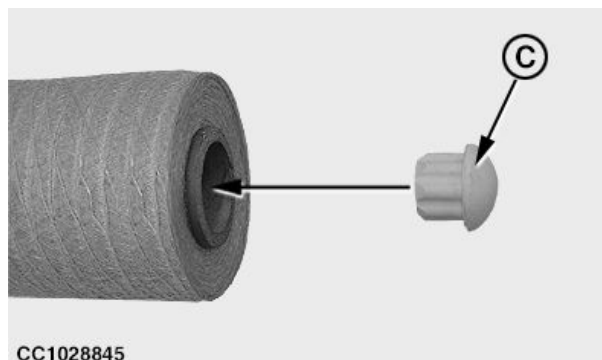
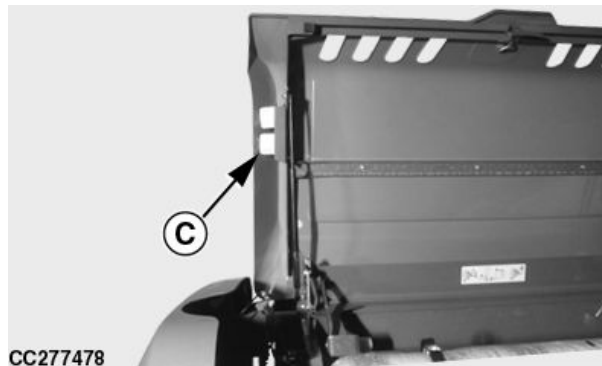
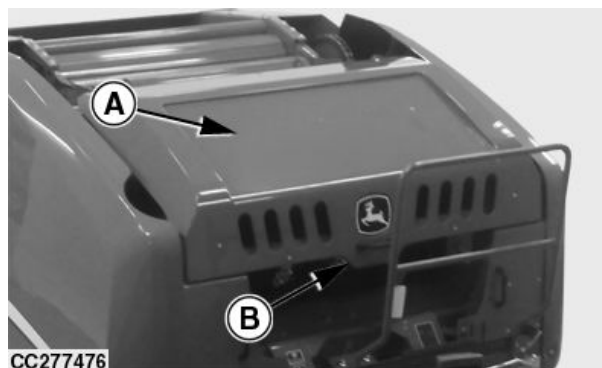
5. Slide net roll through the net compartment (D) as shown, making sure that net is pulled from the bottom of the roll.

NOTE: John Deere nets have two large colored stripes which must be toward the right-hand side of the machine.

Two net rolls can be stored in the net compartment (D). Twine or net box compartment (E) can also be used to store spare net roll.

A—Net Binding Cover
B—Handle
C—Stop

D—Net Compartment
E—Twine Box



CoverEdge is a trademark of Deere & Company

CC03745,0001235 -19-08AUG17-1/1

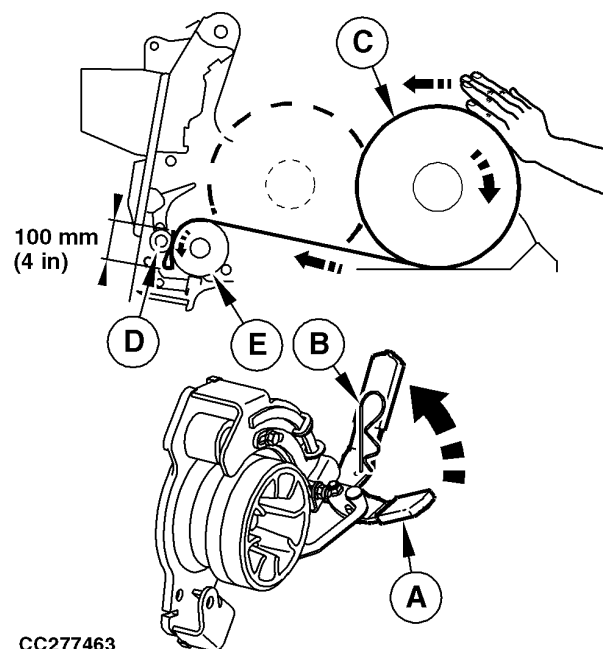
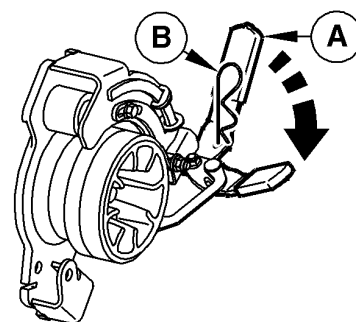
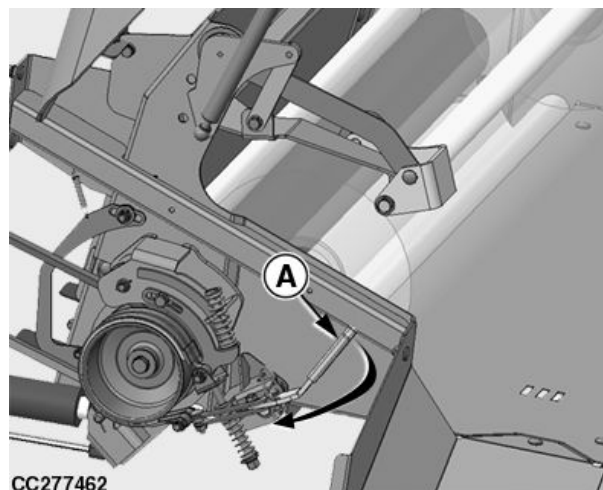
Route Net through Feed Rolls

1. Remove spring locking pin (B).
2. Deactivate band brake by pulling handle (A).
3. Make a loop with net then route it between pinching roll (D) and rubber roll (E) as shown.
4. Lock band brake (A).
5. Push net roll (C) against the rubber roll (E) as shown.
6. Install spring locking pin (B).
7. Close net binding cover.
8. Close right-hand side door.

IMPORTANT: Take off net material from feed rolls at the end of each day! It avoids net material from encrusting in rubber roll (E), thus avoiding start-up problems. Take off net material from rubber roll each time baler is used for twine binding process.

A—Handle
B—Spring Locking Pin
C—Net Roll

D—Pinching Roll
E—Rubber Roll



CC277462 —UN—30MAR16

CC277463 —UN—30MAR16

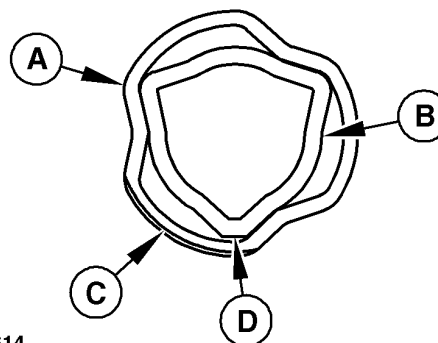
CC03745,0001236 -19-08AUG17-1/1

Install Bondioli Telescoping Driveline

Assemble male tube (B) in female tube (A) by aligning plate corner (D) with crushed face (C).

A—Female Tube
B—Male Tube

C—Crushed Face
D—Plate Corner



CC208614

Profile view of Bondioli Telescoping Driveline

DC82261,000044B -19-09APR14-1/1

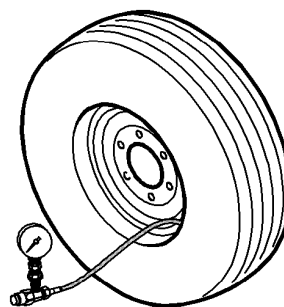
CC208614 —JUN—11APR14

Tire Inflation

Refer to the following table to obtain the correct tire pressure.

IMPORTANT: Always observe local road traffic regulations when driving on public roads. See Observe Maximum Transport Speed in Safety section.

IMPORTANT: Tire size modification requires brake adjustment. See your John Deere dealer.



CC1030245

CC1030245 —JUN—27SEP07

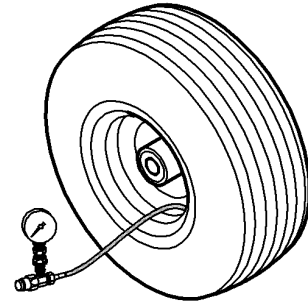
Tire type	Pressure		
	With maximum transport speed of 30 km/h (19 mph)	With maximum transport speed of 40 km/h (25 mph)	With maximum transport speed of 50 km/h (31 mph)
15/70 - 18 (12 PR)	170 kPa (1.7 bar; 25 psi)	200 kPa (2 bar; 29 psi)	240 kPa (2.4 bar; 35 psi)
16/70 - 20 (12 PR)	140 kPa (1.4 bar; 20 psi)	150 kPa (1.5 bar; 22 psi)	200 kPa (2 bar; 29 psi)
500/55 - 20 (150A8)	120 kPa (1.2 bar; 17 psi)	160 kPa (1.6 bar; 23 psi)	180 kPa (1.8 bar; 26 psi)
520/55R22.5 (154D)	120 kPa (1.2 bar; 17 psi)	120 kPa (1.2 bar; 17 psi)	145 kPa (1.45 bar; 21 psi)
600/50 - 22.5 (156A8)	80 kPa (0.8 bar; 12 psi)	90 kPa (0.9 bar; 13 psi)	100 kPa (1 bar; 15 psi)

Continued on next page

NB02380,000016D -19-02JUN16-1/2

Inflate pickup gauge wheels to specified pressure:

	Pressure
Pickup Gauge Wheels	140 kPa (1.4 bar; 20 psi)



CC1030246

CC1030246—UN—01OCT07

NB02380,000016D -19-02JUN16-2/2

Check Wheel Nut Torque

IMPORTANT: Whenever a wheel has been removed and installed, check wheel nut torque at intervals specified in Break-In Period section.

NOTE: Inspect and replace worn or damaged nuts, and washers if equipped.

Tighten wheel nuts diagonally to the following specification:

Specification
Wheel Nuts—Torque.....270 N·m (200 lb.-ft.)



CC202789

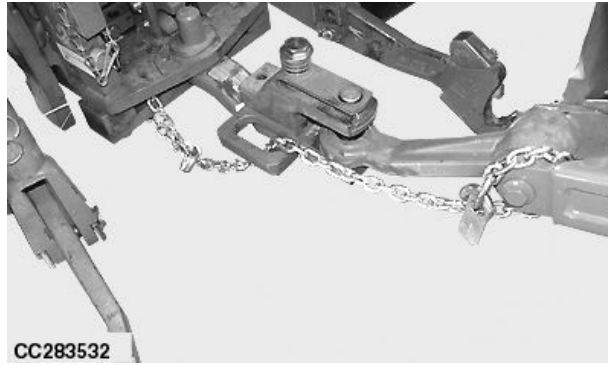
CC200789—UN—12APR13

DC82261,00004CA -19-12AUG14-1/1

Attaching

Attach Baler to Tractor

1. Adjust drawbar, see [Adjust Drawbar](#) in Preparing the Tractor Section.
2. Back up tractor to baler. Align tractor hitch with front of baler tongue.
3. Engage tractor park lock, shut off engine, and remove ignition key.
4. Attach the baler to tractor. See tractor Operator's Manual.



CC283532 —UN—18JUL16

NB02380,0000167 -19-30MAY16-1/1

Fold Jackstand

After hitching baler to tractor, raise jackstand (A) then secure it in its storage position as shown.

Secure jackstand (A) with pin (B) as follows:

1. Fully raise jackstand by using handle (E).

NOTE: Raising or lowering jackstand speed can be increased by pulling the handle (E).

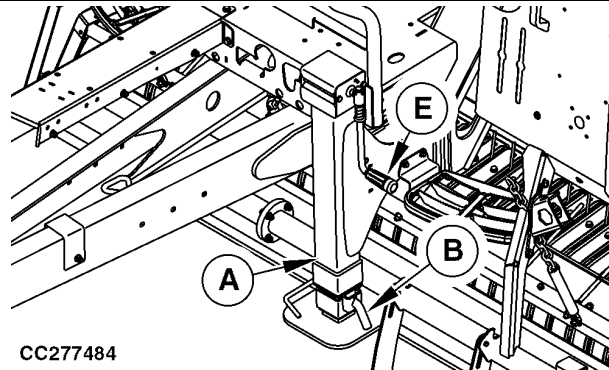
2. Insert pin (B) as shown in drawing (I).
3. To secure jackstand in storing position, turn pin (B) and insert spring locking pin (D) in pin (B) as shown in drawing (II).

IMPORTANT: Make sure that cotter pin (C) is correctly inserted.

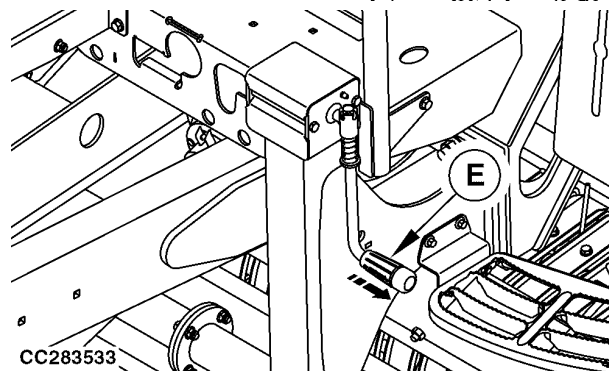
4. Raise the pivot handle (E) and then rotate it to storage position.

A—Jackstand
B—Pin
C—Cotter Pin

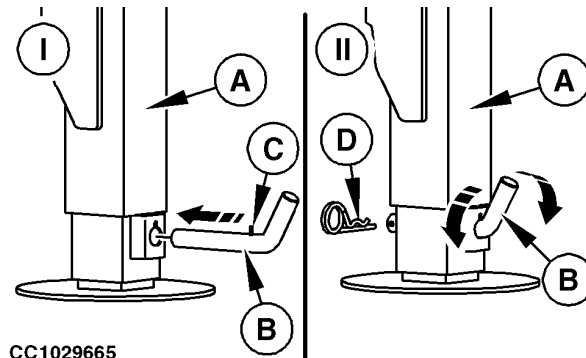
D—Spring Locking Pin
E—Handle



CC277484 —UN—25OCT16



CC283533 —UN—25OCT16



CC1029665

CC1029665 —UN—05SEP07

NB02380,000015B -19-25OCT16-1/1

Connect Telescoping Driveline to Tractor PTO Shaft

CAUTION: Never attach telescoping driveline while the tractor is running.

Never use a steel hammer to connect or disconnect the driveline on PTO shaft.

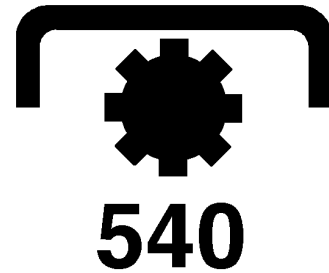
IMPORTANT: Keep driveline and PTO shaft splines free from paint, dirt, chaff and burrs.

1. Disengage the PTO, engage park brake and/or place transmission in PARK, shut off tractor engine and remove key.
2. Pull back on locking collar (A). Locking collar (A) will "click" and remains in open position.
3. Connect telescoping driveline to tractor 540 or 1000 rpm PTO shaft. Refer to tag on baler to select tractor PTO speed. Push telescoping driveline onto tractor PTO shaft until locking collar (A) snaps forward. Locking collar (A) will "click".
4. To check if telescoping driveline is latched, pull back on guard (B). Do not pull on locking collar (A), as this will release latch.

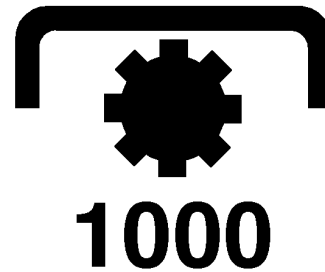
NOTE: Refer to the basic telescoping driveline Operator's Manual to properly connect telescoping driveline to the tractor PTO shaft.

A—Locking Collar

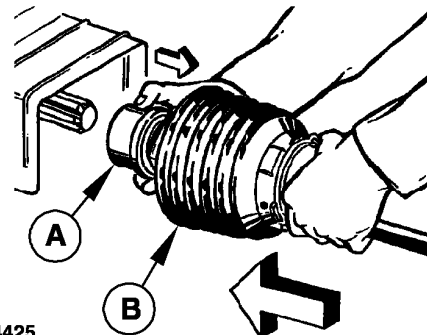
B—Guard



CC1020007



CC007602



CC1034425

OUCC006,0001A49 -19-03APR13-1/1

CC1020007 —UN—09JUL01

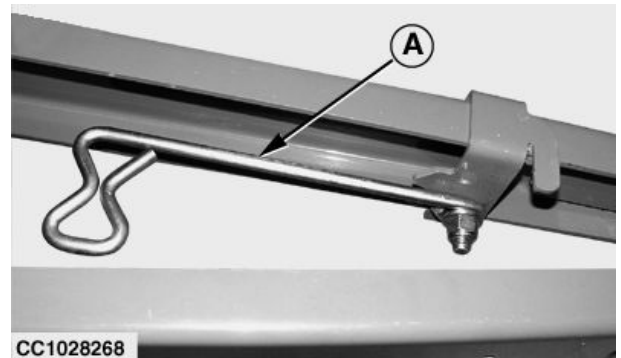
CC007602 —UN—02OCT96

CC1034425 —UN—15SEP11

Telescoping Driveline Support

During baler operation store support (A) along the side tongue frame as shown.

A—Support



CC1028268

OUCC006,0001AD9 -19-03SEP13-1/1

CC1028268 —UN—21SEP06

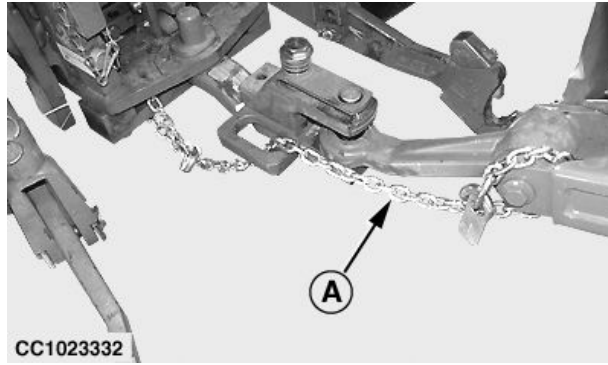
Connecting Safety Chain

If machine is equipped with a safety chain (A), connect and fasten safety chain (A) to tractor. Leave only slack needed for turns.

CAUTION: The chain must prevent the tongue from hitting the ground in case the baler accidentally detaches from the tractor.

IMPORTANT: Always observe local road traffic regulations when driving on public roads.

A—Safety chain



CC1023332 —UN—04AUG03

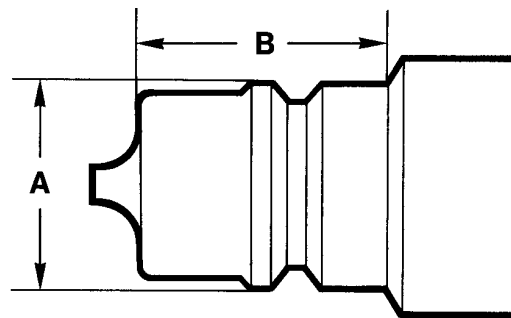
CC03745,0000C4D -19-02FEB07-1/1

Connect to Tractor Hydraulic System

CAUTION: Maximum working pressure of baler hydraulic hoses is about 20000 kPa (200 bar; 2900 psi). To avoid injury from escaping fluid under pressure, stop engine and relieve the pressure in the system before disconnecting or connecting hydraulic or other lines. Tighten all connections before applying pressure.

IMPORTANT: All hydraulic couplers must be clear of debris, dust and sand. Use protective caps on fluid openings until ready to make connection. Foreign material can damage the hydraulic system.

NOTE: ISO hydraulic couplers are standard with the baler. If they do not fit the tractor, see your John Deere dealer for correct coupler.



LX 006613

A—Diameter

B—Length

B—Length..... 24 mm
(0.945 in.)

Specification

A—Diameter..... 23.66 — 23.74 mm
(0.931 — 0.934 in.)

Continued on next page

OUC849,000012B -19-20DEC10-1/4

LX006613 —UN—15AUG94

1. Lock tractor SCV

- Tractor with mechanical selective control valves: If equipped, push tractor SCV (Selective Control Valve) lever lockouts (A) to the right (transport lock) before attaching an implement to prevent implement movement and possible personal injury.
- Tractor with electrically-actuated selective control valves (E-SCVs): Press E-SCVs transport lock button (B) to lock all SCV (transport lock) before attaching an implement to prevent implement movement and possible personal injury.

A—SCV Lever Lockouts

B—E-SCVs Transport Lock Button

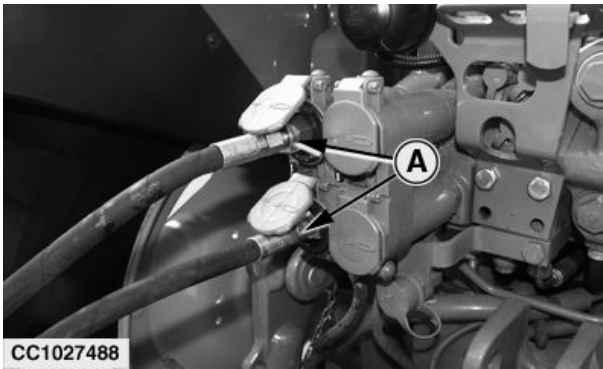


Mechanical SCV

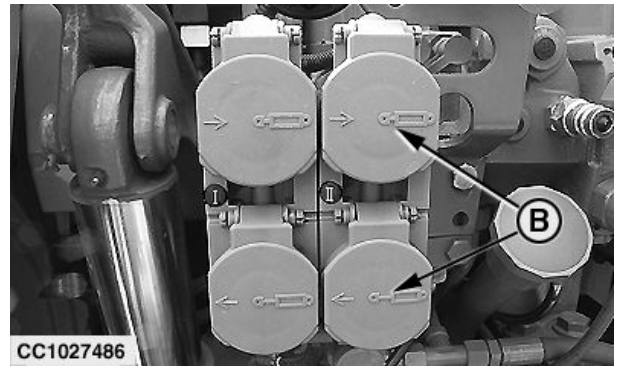


Electrically-Actuated SCV

OUC849,000012B -19-20DEC10-2/4



CC1027488 —UN—11JUL05



CC1027486 —UN—11JUL05

2. Connect gate lift hydraulic hoses

Connect gate hydraulic hoses (A) to a double-acting SCV to operate the gate.

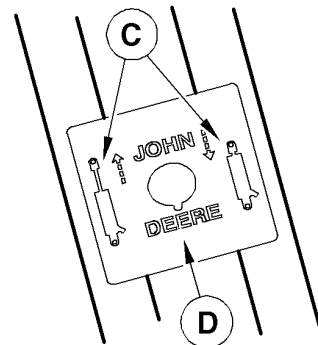
Check to be sure symbols (B) on covers, indicating cylinder movement, match symbols (C) on hose identification plate (D).

Push hoses firmly into tractor receptacles.

A—Gate Hydraulic Hoses
B—SCV Symbols

C—Identification Plate Symbols
D—Hose Identification Plate

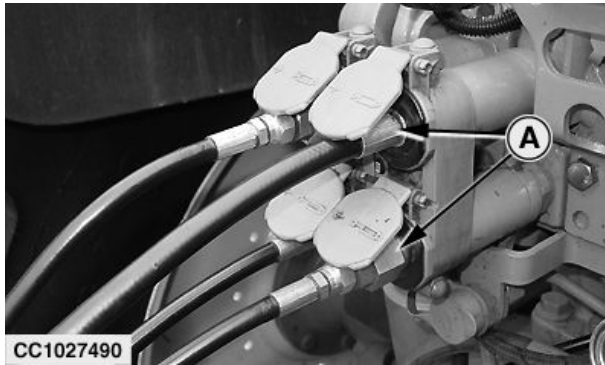
CC1026711



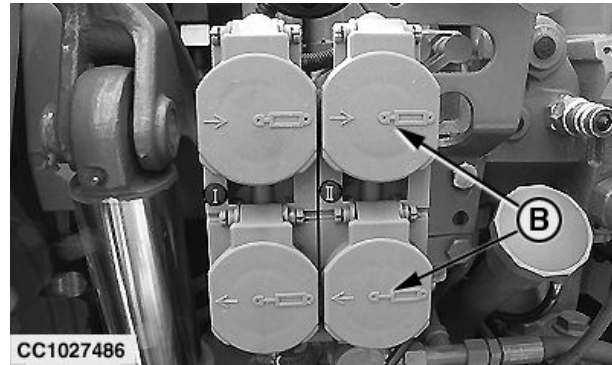
CC1026711 —UN—03DEC04

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OUC849,000012B -19-20DEC10-3/4



CC1027490 —UN—11JUL05



CC1027486 —UN—11JUL05

3. Connect pickup control valve hydraulic hoses

Connect pickup control valve hydraulic hoses (A) to a double-acting SCV to operate the pickup lift.

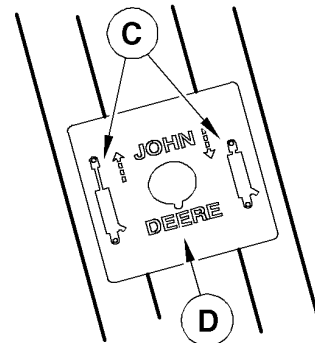
NOTE: Precutter knives and drop floor management use the same selective control valve as raise or lower the pickup.

Check to be sure symbols (B) on covers, indicating cylinder movement, match symbols (C) on hose identification plate (D).

Push hoses firmly into tractor receptacles.

A—Pickup Hydraulic Hoses
B—SCV Symbols

C—Identification Plate Symbols
D—Hose Identification Plate



CC1026711 —UN—03DEC04

OUC849,000012B -19-20DEC10-4/4

Connect Hydraulic Brakes (If Equipped)

Remove cap from trailer brake coupler (A) and connect pressure hose, making sure connections are absolutely clean.

Press down on brake pedals to operate hydraulic trailer brake. The braking effect depends on pressure applied to the brake pedals.

IMPORTANT: To prevent undue wear on the brakes, observe the following:

Make sure that the pressure hose is connected.

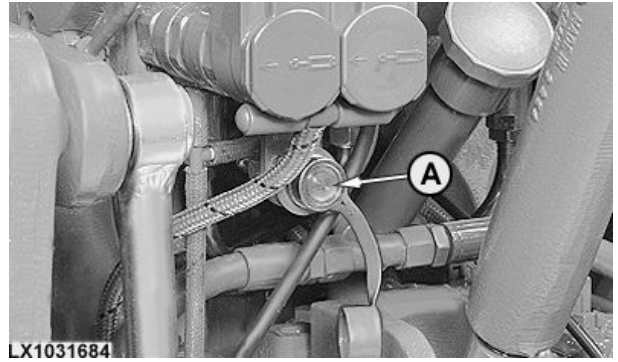
When driving downhill, select the same gear you would for driving uphill.

Check the hydraulic trailer brake regularly to make sure that it is functioning correctly.

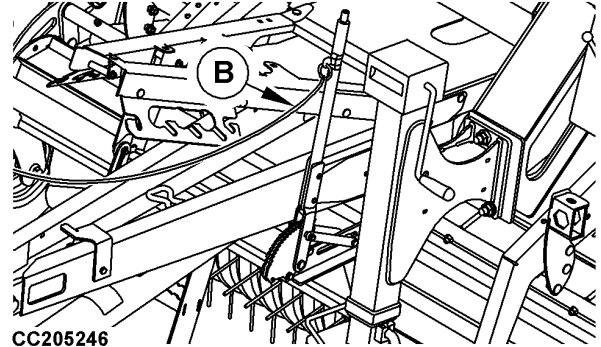
Connect safety rope (B) to tractor. The safety rope engages the park brake in case the machine accidentally detaches from the tractor.

A—Trailer Brake Coupler

B—Safety Rope



LX1031684 —UN—03APR03



CC205246 —UN—16OCT13

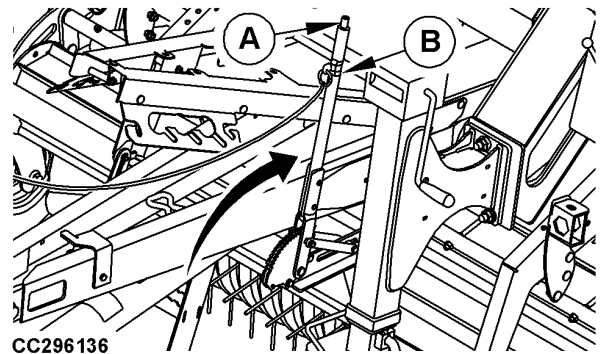
OUCC006,0001AD6 -19-02SEP13-1/1

Disengage Machine Park Brake (Baler with Hydraulic Brakes)

To disengage park brake, pull lever (B), push button (A) then release lever.

A—Button

B—Lever



CC296136 —UN—07OCT16

NB02380,00001B7 -19-07OCT16-1/1

Connect Air Brakes (If Equipped)

IMPORTANT: Pay attention to the colors of the couplers.

NOTE: Couplers and colors comply with 1728 ISO standard.

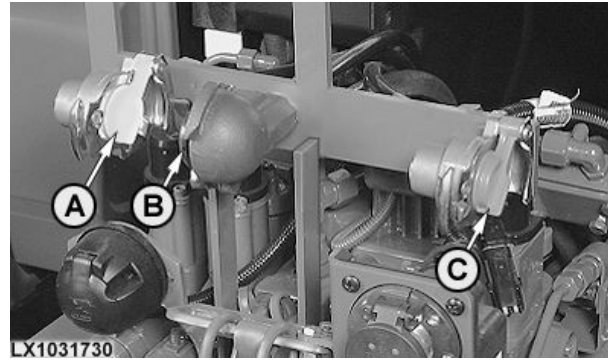
Ensure that the connections are clean before joining the pressure hoses. Seal the connections with the dust caps whenever the hoses are disconnected.

Connect yellow hose at connection (A) then red hose at connection (C). Disconnect in reverse order.

IMPORTANT: To prevent undue wear on the brakes, observe the following:

- Make sure that the pressure hoses are connected.
- When driving downhill, select the same gear you would for driving uphill.
- Check the air brake on the trailer regularly to make sure that it is functioning correctly.

NOTE: When the brake hoses are disconnected from the tractor brake system, the brakes of the machine are



A—Yellow (Dual-Line Brake)
B—Black (Single-Line Brake)

C—Red (Dual-Line Brake, Supply)

automatically engaged. See *Park the Machine (Baler with Air Brakes)* in *Transporting and Parking* section.

NOTE: When the pressure is too low, the brakes of the machine are automatically engaged.

DC82261,000059C -19-09JAN15-1/1

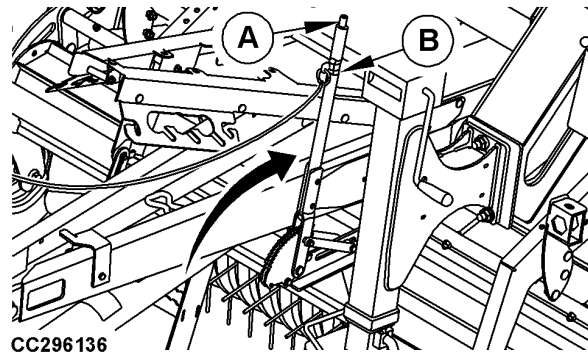
Disengage Machine Park Brake (Baler with Air Brakes)

Park Brake Lever

To disengage park brake, pull lever (B), push button (A) then release lever.

A—Button

B—Lever



CC296136

NB02380,00001B9 -19-07OCT16-1/2

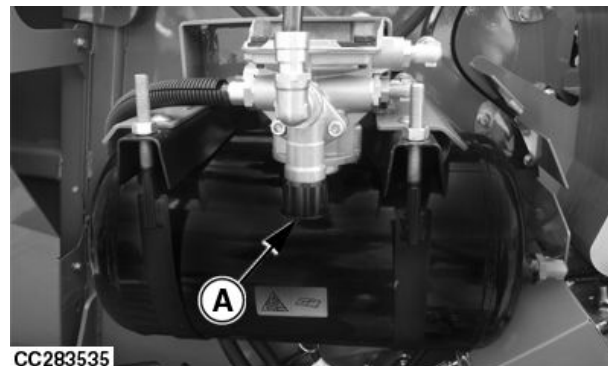
Air Brake Valve

When the air brake hoses are not connected or accidentally disconnected from the tractor, the round baler brakes are automatically engaged.

To release round baler brakes manually, press on button (A).

The round baler brakes are automatically released when the air brake hoses are reconnected to the tractor brake system.

A—Button



CC283535

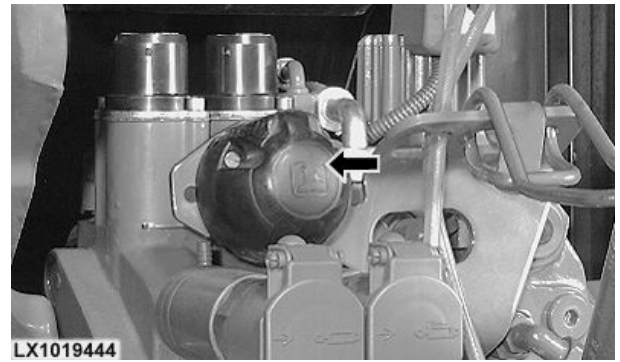
NB02380,00001B9 -19-07OCT16-2/2

Connecting Seven-Terminal Trailer Socket

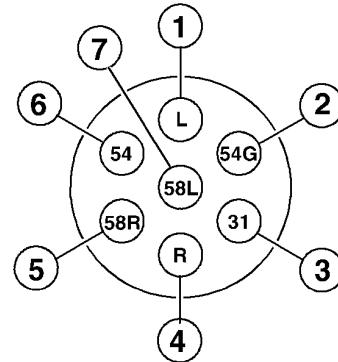
Connect road light plug to seven terminal socket of the tractor.

The road light wiring harness of this machine complies with 1724 ISO standard.

Terminal	Function	Reference
1	Left-Hand Turn Signal Light	L
2	—	54G
3	Ground	31
4	Right-Hand Turn Signal Light	R
5	Right-hand rear position and marker lights	58R
6	Brake Lights	54
7	Left-hand rear position and marker lights	58L



Tractor seven-terminal socket



CC017032

OUCC006,00010BA -19-22SEP06-1/1

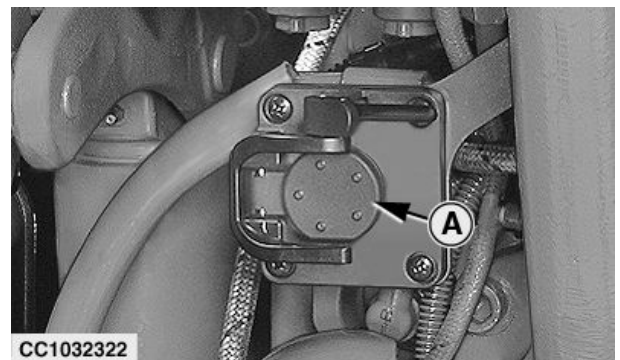
LX1019444 —UN—17SEP99

CC017032 —UN—25FEB00

Connect Round Baler Wiring Harness

Connect machine wiring harness plug to the ISOBUS implement breakaway connector (A).

**A—ISOBUS Implement
Breakaway Connector**



CC1032322

OUCC849,000014B -19-16DEC10-1/1

CC1032322 —UN—17DEC09

Detaching

Detach Baler from Tractor

CAUTION: To prevent personal injury caused by unexpected movement:

- Park machines on a level surface.
 - Engage tractor park brake and place transmission in PARK.
 - Disengage PTO.
 - Shut off tractor engine and remove key.
1. Park baler on a level surface.
 2. Engage tractor park brake, shut off engine and remove key.
 3. Disconnect round baler wiring harness, see Disconnect Round Baler Wiring Harness in this Section.

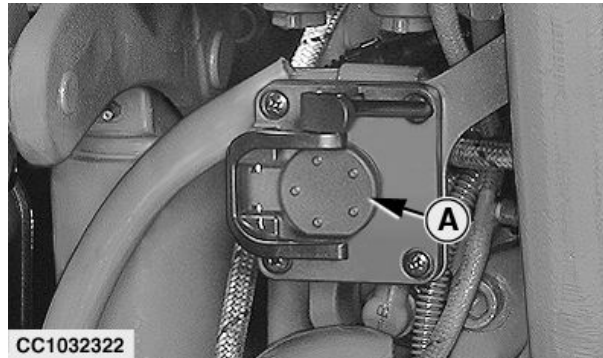
4. Disconnect seven-terminal trailer socket, see Disconnect Seven-Terminal Trailer Socket in this Section.
5. Disconnect brake, see Disconnect Hydraulic Brakes (If Equipped) or Disconnect Air Brakes (If Equipped) in this Section.
6. Disconnect hydraulic system, see Disconnect from Tractor Hydraulic System in this Section.
7. Disconnect PTO, see Disconnect Telescoping Driveline from Tractor PTO Shaft in this Section.
8. Unfold jackstand, see Unfold Jackstand in this Section.
9. Detach safety chain from the tractor.
10. Detach the baler.
11. Carefully drive tractor away from baler.

NB02380,0000165 -19-01AUG16-1/1

Disconnect Round Baler Wiring Harness

Disconnect machine wiring harness from the ISOBUS implement breakaway connector (A).

A—ISOBUS Implement
Breakaway Connector

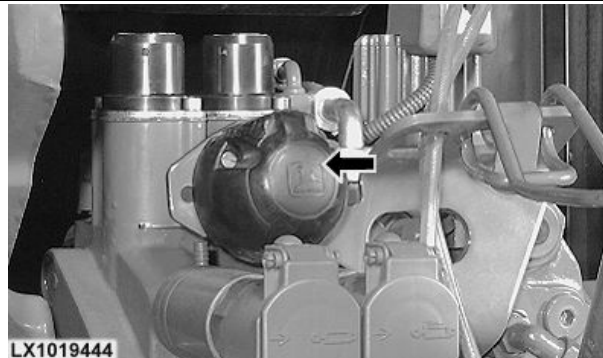


CC1032322 —UN—17DEC09

NB02380,0000160 -19-28NOV16-1/1

Disconnect Seven-Terminal Trailer Socket

Disconnect road light plug from seven terminal socket of the tractor.



Tractor Seven-Terminal Socket

LX1019444 —UN—17SEP99

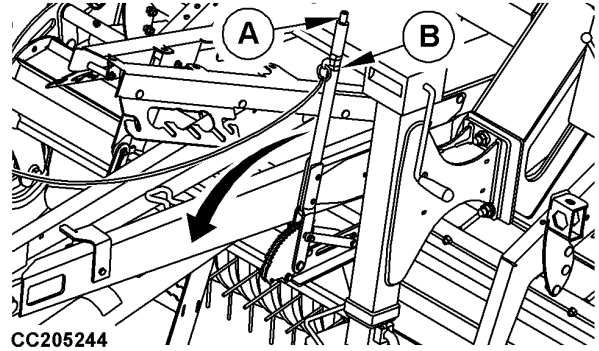
NB02380,0000161 -19-31MAY16-1/1

Engage Machine Park Brake (Baler with Hydraulic Brakes)

Pull lever (B) to engage park brake.

A—Button

B—Lever



CC205244

CC205244 —UN—16OCT13

NB02380,00001B4 -19-26JUL16-1/1

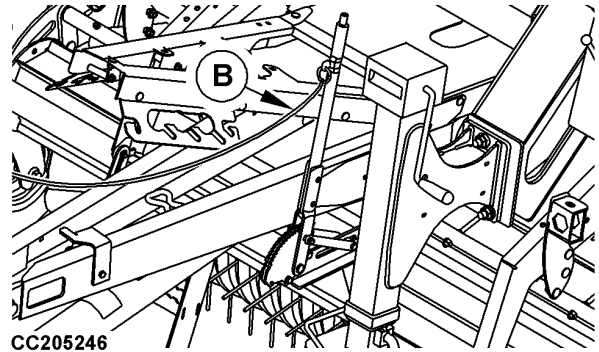
Disconnect Hydraulic Brakes (If Equipped)

Disconnect safety rope (B) from tractor.

Disconnect pressure hose and install cap to trailer brake coupler (A).

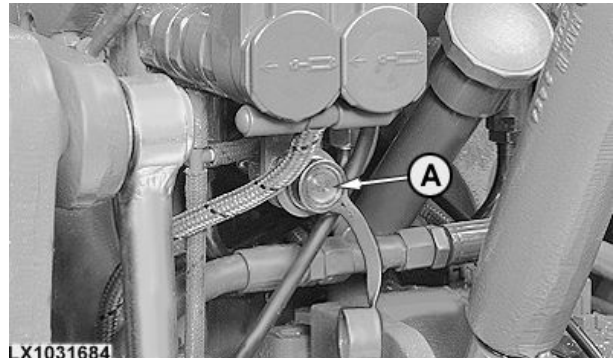
A—Trailer Brake Coupler

B—Safety Rope



CC205246

CC205246 —UN—16OCT13



LX1031684

LX1031684 —UN—03APR03

NB02380,0000162 -19-30MAY16-1/1

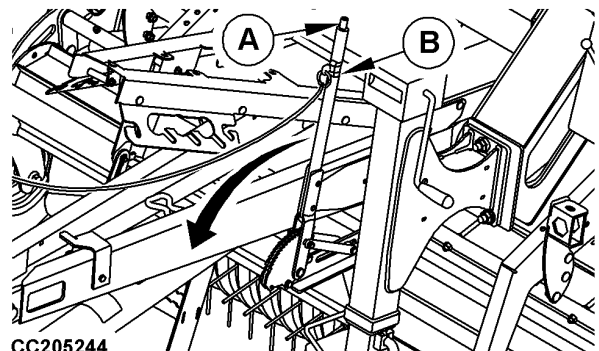
Engage Machine Park Brake (Baler with Air Brakes)

Park Brake Lever

Pull lever (B) to engage park brake.

A—Button

B—Lever



CC205244

CC205244 —UN—16OCT13

Continued on next page

NB02380,00001B6 -19-26JUL16-1/2

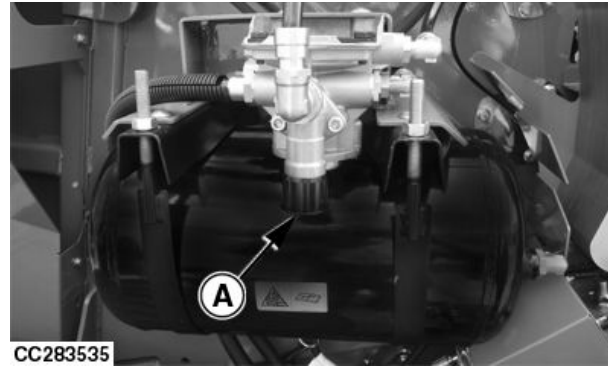
Air Brake Valve

When the air brake hoses are not connected or accidentally disconnected from the tractor, the round baler brakes are automatically engaged.

To release round baler brakes manually, press on button (A).

The round baler brakes are automatically released when the air brake hoses are reconnected to the tractor brake system.

A—Button



CC283535

CC283535 —UN—18JUL16

NB02380,00001B6 -19-26JUL16-2/2

Disconnect Air Brakes (If Equipped)

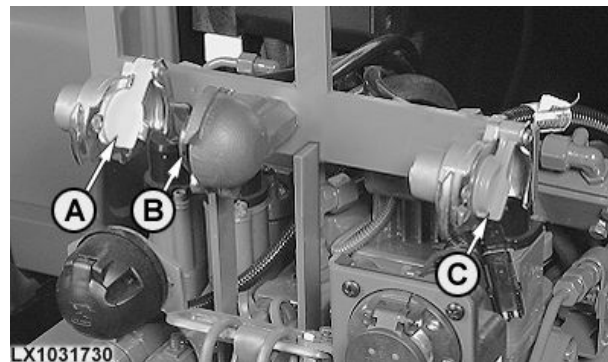
IMPORTANT: Pay attention to the colors of the couplers.

NOTE: Couplers and colors comply with 1728 ISO standard.

Disconnect red hose from connection (C) then yellow hose from connection (A).

Seal the connections with the dust caps whenever the hoses are disconnected.

NOTE: When the brake hoses are disconnected from the tractor brake system, the brakes of the machine are automatically engaged. See Park the Machine (Baler with Air Brakes) in Transporting and Parking section.



LX1031730

LX1031730 —UN—13AUG03

A—Yellow (Dual-Line Brake)
B—Black (Single-Line Brake)

C—Red (Dual-Line Brake, Supply)

NB02380,0000163 -19-07OCT16-1/1

Disconnect from Tractor Hydraulic System

CAUTION: Maximum working pressure of baler hydraulic hoses is about 20000 kPa (200 bar; 2900 psi). To avoid injury from escaping fluid under pressure, stop engine and relieve the pressure in the system before disconnecting or connecting hydraulic or other lines. Tighten all connections before applying pressure.

IMPORTANT: All hydraulic couplers must be clear of debris, dust and sand. Use protective caps on fluid openings until ready to make connection. Foreign material can damage the hydraulic system.

1. Lock tractor SCV

- Tractor with mechanical selective control valves: If equipped, push tractor SCV (Selective Control Valve) lever lockouts (A) to the right (transport lock) before attaching an implement to prevent implement movement and possible personal injury.
- Tractor with electrically-actuated selective control valves (E-SCVs): Press E-SCVs transport lock button (B) to lock all SCV (transport lock) before attaching an implement to prevent implement movement and possible personal injury.



Mechanical SCV



Electrically-Actuated SCV

A—SCV Lever Lockout

B—E-SCVs Transport Lock Button

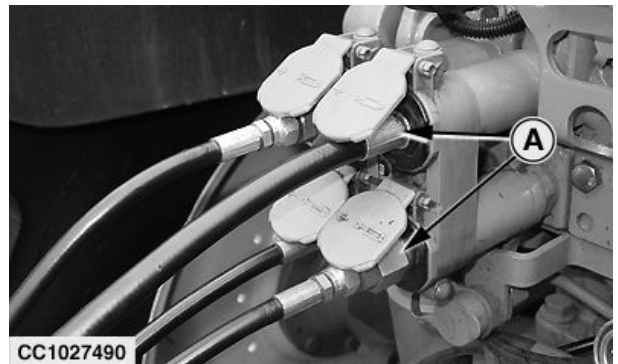
NB02380,0000164 -19-14OCT16-1/3

2. Disconnect pickup control valve hydraulic hoses

Disconnect pickup control valve hydraulic hoses (A) from double-acting SCV.

Pull hoses firmly from tractor receptacles.

A—Pickup Hydraulic Hose



Continued on next page

NB02380,0000164 -19-14OCT16-2/3

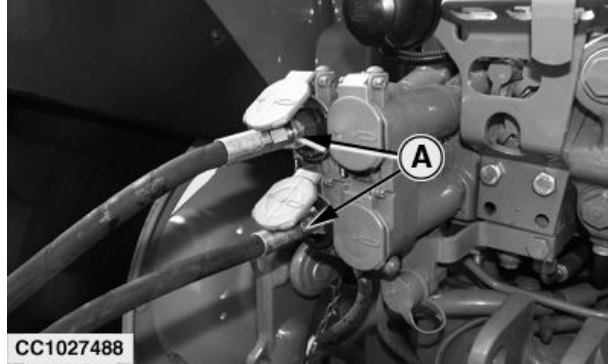
3. Disconnect gate lift hydraulic hoses

Disconnect gate hydraulic hoses (A) from double-acting SCV.

Pull hoses firmly from tractor receptacles.

4. Store hydraulic hoses, see [Store Hydraulic Hoses](#) in this Section.

A—Gate Hydraulic Hose



CC1027488 —UN—11JUL05

NB02380,0000164 -19-14OCT16-3/3

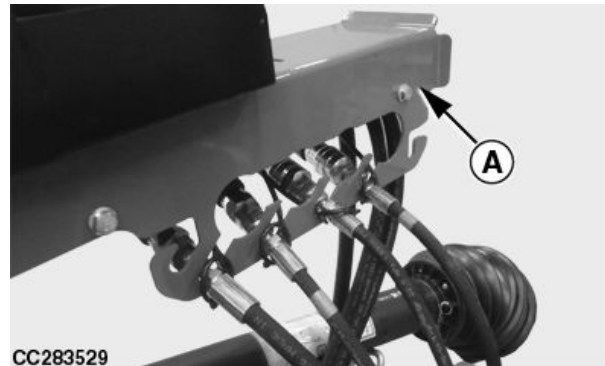
Store Hydraulic Hoses

CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines.

Disconnect hydraulic hoses and install protective caps on couplers.

Store hydraulic hoses in the provided support (A) to keep them clean by avoiding contact with the ground.

A—Support



CC283529 —UN—18JUL16

NB02380,000015F -19-30MAY16-1/1

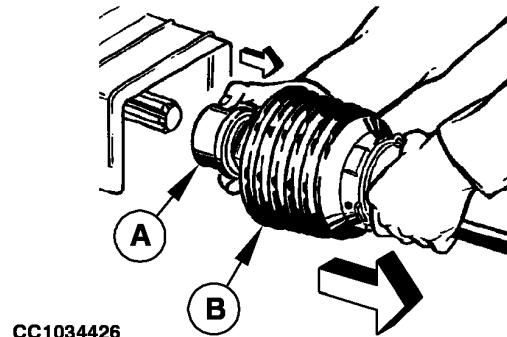
Disconnect Telescoping Driveline from Tractor PTO Shaft

CAUTION: Never detach telescoping driveline while the tractor is running.

Never use a steel hammer to connect or disconnect the driveline on PTO shaft.

IMPORTANT: Keep driveline and PTO shaft splines free from paint, dirt, chaff and burrs.

1. Disengage the PTO, engage park brake and/or place transmission in PARK, shut off tractor engine and remove key.
2. Hold guard (B) and pull back on locking collar (A). Slide telescoping driveline off tractor PTO shaft.
3. Store telescoping driveline, see [Store Telescoping Driveline](#) in this Section.
4. Reinstall all shields, if removed.



A—Locking Collar

B—Guard

NOTE: Refer to the basic telescoping driveline Operator's Manual to properly detach telescoping driveline from the tractor PTO shaft.

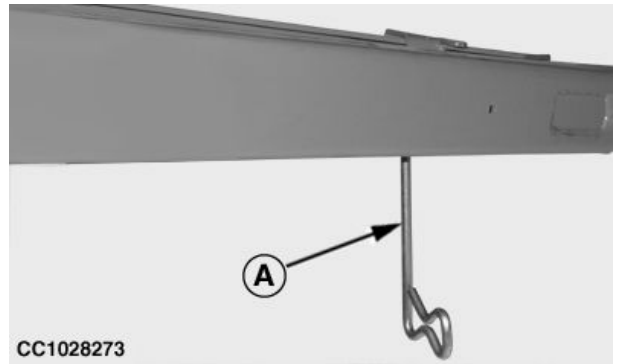
CC1034426 —UN—15SEP11

NB02380,000015C -19-31MAY16-1/1

Store Telescoping Driveline

When baler tongue is adjusted for the use of the tractor trailer hitch, position support (A) as shown so that telescoping driveline can be stored on it.

A—Support



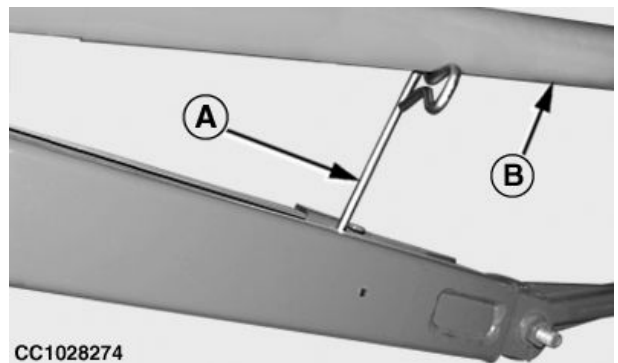
CC1028273 —UN—21SEP06

NB02380,000015D -19-25MAY16-1/2

When baler tongue is adjusted for the use of the tractor drawbar, position support (A) as shown so that telescoping driveline (B) can be stored on it.

A—Support

B—Telescoping Driveline



CC1028274 —UN—21SEP06

NB02380,000015D -19-25MAY16-2/2

Unfold Jackstand

Before detaching baler from tractor, remove jackstand (A) from storage position and place it as close to ground as possible as shown.

Secure jackstand (A) with pin (B) as follows:

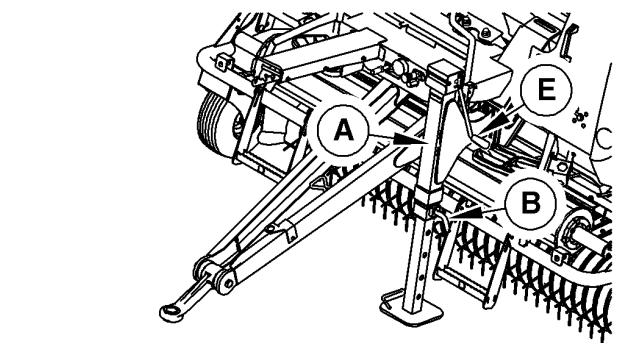
1. Insert pin (B) as shown in drawing (I).
2. To secure jackstand, turn pin (B) and insert spring locking pin (D) in pin (B) as shown in drawing (II).

IMPORTANT: Make sure that cotter pin (C) is correctly inserted.

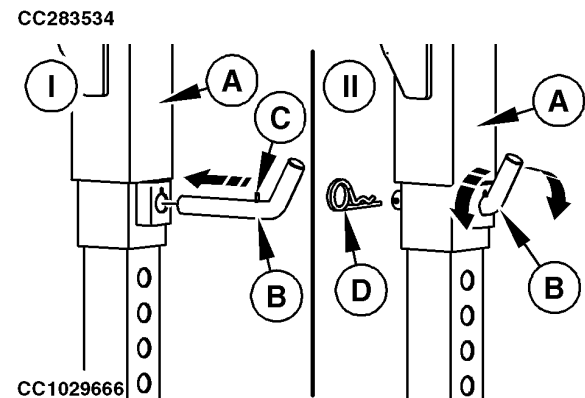
Turn handle (E) to take load off tractor.

A—Jackstand
B—Pin
C—Cotter Pin

D—Spring Locking Pin
E—Handle



CC283534 —UN—18JUL16



CC1029666 —UN—05SEP07

NB02380,000015E -19-31MAY16-1/1

Transporting and Parking

Tow Baler on Public Roads

CAUTION: Use of flashing warning lights and turn signals is recommended when towing this equipment on public roads. An implement safety lighting kit is available from your John Deere dealer.

Before towing the baler at transport speed, close gate and raise pickup.

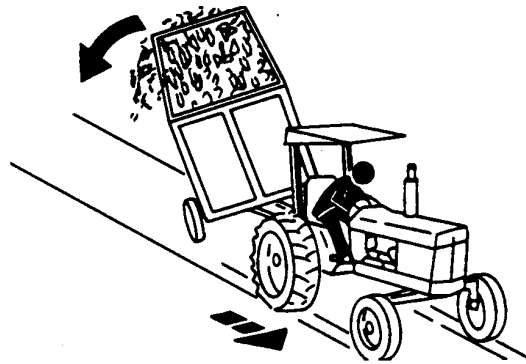
CAUTION: Use care when towing baler at transport speeds. Reduce speed if the weight of baler exceeds weight of tractor. Baler must be empty when towing it on roads.

IMPORTANT: Do not make sharp turns when towing baler. Damage could result if tongue strikes tractor tire.

IMPORTANT: Maximum transport speed is determined by local road traffic regulations and speed capability of the implement. To determine the appropriate tire pressure, see Tire Inflation in Preparing the Baler section.

Always observe local road traffic regulations when driving on public roads.

When transporting baler at high speeds, a rocking motion may occur. Reduce speed until rocking stops.



H28930 —UN—30JUN89

TS216 —UN—23AUG88

OUC007,00018D6 -19-22DEC10-1/1

Recommended Warning Lights

CAUTION: Use of flashing warning lights and turn signals is recommended when towing the machine on public roads.



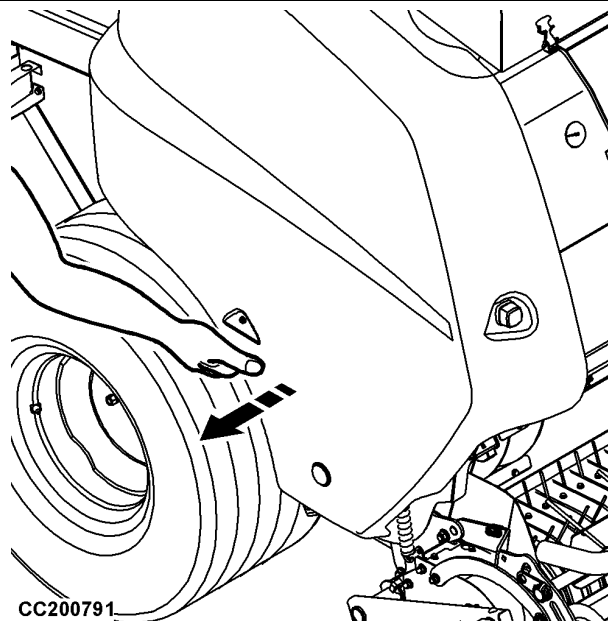
CC296134

CC296134 —UN—04OCT16

NB02380,00001E5 -19-04OCT16-1/1

Check Side Doors Are Locked

⚠ CAUTION: Pull on side doors to make sure they are locked.



CC200791 —UN—12APR13

OUCC006,0001A4B -19-03APR13-1/1

Put Standard Gauge Wheels in Transport Position

1. Remove quick-lock pin (A).
2. Remove gauge wheel (B) from pickup.
3. Position gauge wheel (B) on bracket as shown. Secure it with quick-lock pin (A).
4. Repeat procedure on opposite side.

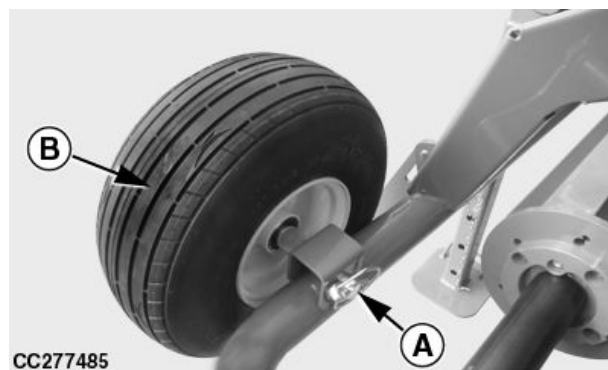
A—Quick-Lock Pin

B—Gauge Wheel



CC200792

CC200792 —UN—12APR13



CC277485

CC277485 —UN—18JUL16

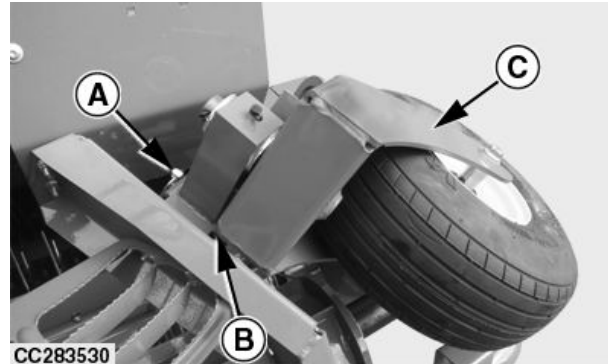
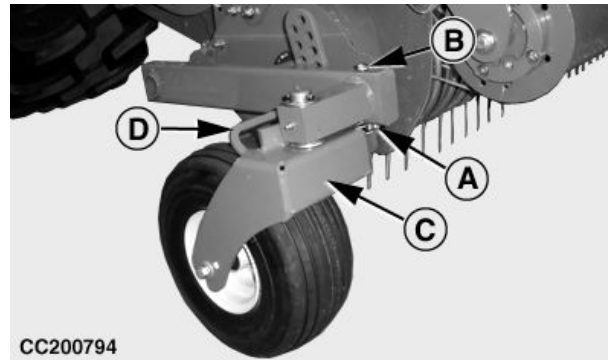
NB02380,0000168 -19-07OCT16-1/1

Put Caster Gauge Wheels in Transport Position

1. Remove quick-lock pin (A) and pin (B).
2. Remove caster gauge wheel (C) from pickup by using handle (D).
3. Position caster gauge wheel (C) on bracket as shown and secure it with pin (B) and quick-lock pin (A).
4. Repeat procedure on opposite side.

A—Quick-Lock Pin
B—Pin

C—Caster Gauge Wheel
D—Caster Gauge Wheel Handle



CC200794 —UN—12APR13

CC283530 —UN—18JUL16

NB02380,0000169 -19-07OCT16-1/1

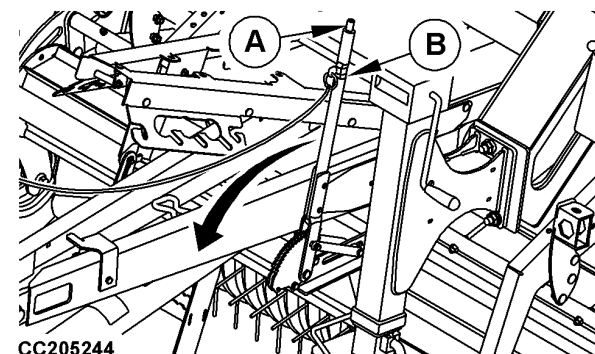
Park the Machine (Baler with Hydraulic Brakes)

Pull lever (B) to engage park brake.

To disengage park brake, pull lever (B), push button (A) then release lever.

A—Button

B—Lever



CC205244 —UN—16OCT13

OUC006,0001AD4 -19-02SEP13-1/1

Park the Machine (Baler with Air Brakes)

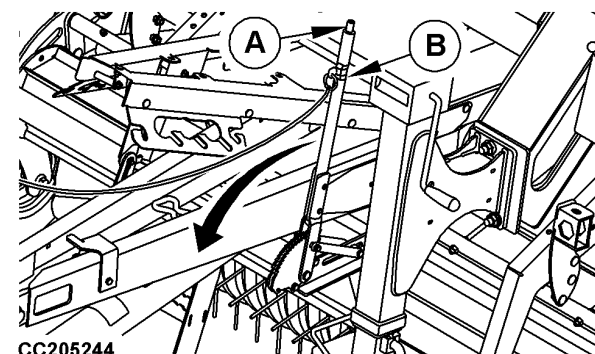
Park Brake Lever

Pull lever (B) to engage park brake.

To disengage park brake, pull lever (B), push button (A) then release lever.

A—Button

B—Lever



CC205244 —UN—16OCT13

Continued on next page

NB02380,000016C -19-02JUN16-1/2

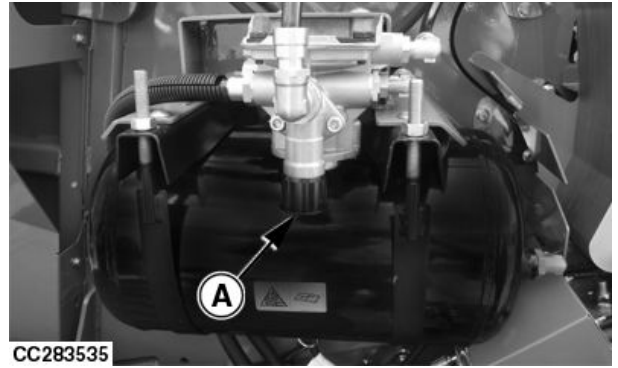
Air Brake Valve

When the air brake hoses are not connected or accidentally disconnected from the tractor, the round baler brakes are automatically engaged.

To release round baler brakes manually, press on button (A).

The round baler brakes are automatically released when the air brake hoses are reconnected to the tractor brake system.

A—Button



CC283535 —UN—18JUL16

NB02380,000016C -19-02JUN16-2/2

Break-In Period

Break In Baler

Consider period of approximately first fifty bales as the break-in period, i.e. until paint inside bale chamber has worn off.

Before operation, lubricate telescoping members of telescoping driveline liberally.

IMPORTANT: If slippage occurs during operation, disengage PTO and re-engage at low idle until cam clutch re-engages, then operate again at rated PTO speed.

OUC006,0001A4F -19-03APR13-1/1

After the First 10 Hours - Wheel Nut Torque

Check wheel nut torque after the first 10 hours of use. See [Check Wheel Nut Torque](#) in Preparing the Baler section.

IMPORTANT: Repeat the procedure each time a wheel has been removed and installed.



CC202789

CC200789 —UN—12APR13

OUC006,0001A50 -19-03APR13-1/1

After the First 50 Hours - Gear Case

Change the oil in the gear case after the first 50 hours of operation. See [Every 500 Hours or Yearly - Drain and Refill Gear Case](#) in Lubrication and Maintenance section.



CC200796

CC200796 —UN—12APR13

OUC006,0001A51 -19-03APR13-1/1

After the First 50 Hours - Wheel Nut Torque

Check wheel nut torque after the first 50 hours of use. See [Check Wheel Nut Torque](#) in Preparing the Baler section.

IMPORTANT: Repeat the procedure each time a wheel has been removed and installed.



CC202789

CC200789 —UN—12APR13

OUC006,0001A52 -19-03APR13-1/1

Operating the Baler—General Purposes

Before Each Use of the Baler

Adjust the Baler:

1. Adjust pickup height. See [Adjust Pickup Height](#) in this section.
2. Adjust pickup float spring. See [Adjust Pickup Float Spring](#) in this section.
3. Adjust pickup gauge wheels. See [Adjust Pickup Standard Gauge Wheels](#) or [Adjust Pickup Caster Gauge Wheels](#) in this section.
4. Adjust short crop deflector or windrow compressor roll. See [Adjust Short Crop Deflector \(If Equipped\)](#) or [Adjust Windrow Compressor Roll \(If Equipped\)](#) in this section.
5. Adjust bale density. See [Adjust Bale Density](#) in this section.
6. Select binding start mode. See [Select Binding Start Mode](#) in Operating Baler Application section.
7. Adjust net binding system. See [Adjust Net Binding](#) in Operating Baler Application section.
8. Check that the drop floor is in raised position. See [Baler Main Page Description](#) in Operating Baler Application section.
9. Select customer and field number. See [Customer and Field Counters](#) in Operating Baler Application section.

Set Control Monitor Functions:

CC03745,0001237 -19-08AUG17-1/1

Clean the Machine to Prevent Fire

CAUTION: Before working on the machine, disengage PTO, engage parking brake, shut off tractor engine and remove key. Wait for all moving parts to come to a standstill.

To reduce risk of fire, clean the machine several times per day, adjust cleaning frequency based on baling conditions.

Remove buildup of crop material and other debris by hand or using any other available tools, especially near bearings and moving parts.

DC82261,00004F8 -19-12AUG14-1/1

In Case of Fire Take Following Action

Stop baling immediately at the first sign of flames, smoke, scorched smell, or an unusual sound.

CAUTION: Do not risk personal injury. Burning tires and heated gas springs can explode unexpectedly. Avoid burns or smoke inhalation. Do not attempt to extinguish a fire that is too far advanced, move safely away from the fire.

If the fire can be extinguished or contained safely, proceed carefully and follow these guidelines.

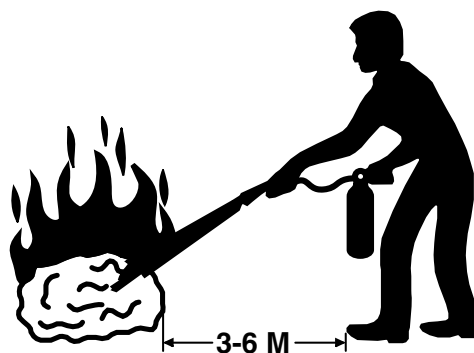
1. Position the tractor upwind from the baler to avoid the fire overtaking the tractor.
2. Open the baler gate, eject any crop material from the bale chamber, drive away from the material.
3. Disengage PTO, engage parking brake, shut off tractor engine and remove key.
4. Pull the draw pin, detach safety chains, disconnect electrical harness.
5. Drive the tractor away from the baler (letting the driveline, and hydraulic connections pull free).
6. Call the fire department and give them your location.
7. Do not position yourself under an open baler gate. It may fall if the baler is on fire.
8. Stay upwind of the fire; follow instructions on your fire extinguisher when available.



TS227—UN—15APR13

CC03745,000114C -19-25SEP14-1/1

Operate Pressurized Water Tank



H90363 —JUN—05DEC07

CAUTION: Do not risk personal injury. If a fire is too far advanced, do not try to extinguish it.

If a fire can be safely extinguished, proceed carefully and follow these guidelines:

1. Remove water pressurized tank from bracket and carry to area of fire.
2. Approach area of fire with wind to your back.
3. Pull the safety pin out of the actuating lever.

4. Hold water pressurized tank upright and aim hose at base of flames.
5. Squeeze lever of pressurized water tank to direct water on fire.
6. Move hose to cover the source of the fire evenly with water.

After each use, refill pressurized water tank, see [Charge Pressurized Water Tank](#) in Service section.

DC82261,00004D9 -19-13AUG14-1/1

Crop Preparation

Windrow Size

Good, uniform bales are made by feeding either full pickup width windrows or narrow windrows having a width of half or less than half of the pickup width.

Avoid medium-sized windrows. As the operator crosses this size windrow to crowd material into the ends of the pickup, material is continuously being fed to the center. As a result, more material will be fed into the center of the bale than in the ends. This results in barrel-shaped bales with low density at the ends and high density in the center.

Preparing the Hay Crops for Baling

The crop to be baled can be prepared in a number of ways, depending on your preference and equipment available. The most desirable bales are produced when the crop is cut, conditioned and then raked into windrows of the proper size. This allows the operator to weave and properly position the material in the baler, producing compact, uniform bales. See Windrow Size above.

If moisture content is too high, spoilage can be expected.

If moisture content is too low, excessive leaf loss and shatter will occur.

Cut the crop as long as possible. In most crops, longer material is easier to bale and results in smoother finished, more weather-resistant bales.

Do not overcondition the material, particularly legume-type crops such as alfalfa and clover.

Overconditioning will cause the leaves to dry too quickly and break off where they are damaged, resulting in losses. If the bales are to be stored outside, excessive shattering of stems will invite moisture absorption.

Underconditioning can also cause spoilage, particularly when baling cane-type crops and other heavy-stemmed materials.

NOTE: Excessively dry, slippery material sometimes encountered in maize stalks, certain grasses, and various types of grain straws can be successfully baled provided the material is of sufficient length to hold the bale together.

Preparing the Silage Crops for Baling

The crop can be cut and prepared with the usual equipment such as mower or a mower-conditioner and a tedder rake.

Produce uniform windrows. A flat, full windrow is desirable. The best results for conservation are obtained when the crop is baled at a dry matter content between 40 and 50%.

Preparing the Straw Crops for Baling

If at all possible, ensure at the time of combining a grain crop, that the straw is not chopped excessively by the combine's threshing mechanism. Do not stir up the windrow prior to baling if the straw is already very dry and short. A properly sized, full windrow, produced by a large combine will give better results than a very small windrow.

OUC006.0001A54 -19-03APR13-1/1

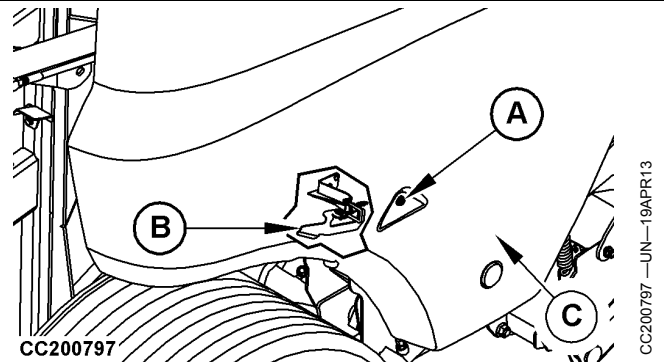
Open and Close the Side Door

1. Turn lock (A).
2. Pull latch (B).
3. Open the side door (C).

After closing a side door, pull on door to make sure it is locked.

A—Lock
B—Latch

C—Side Door



OUC006.0001A55 -19-03APR13-1/1

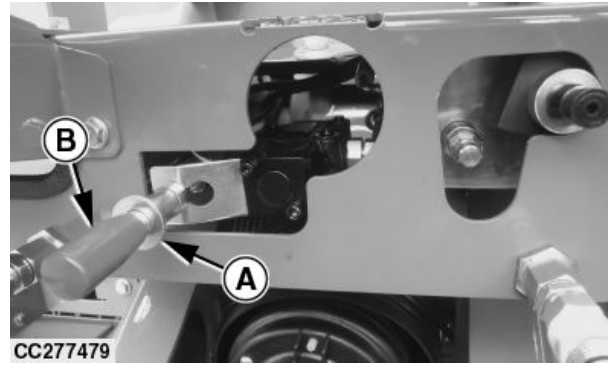
Gate Lock Valve

CAUTION: Before working inside or around the baler with an open gate, always engage gate lock. Close gate when leaving baler unattended.

To engage gate lock, pull bushing (A) and move lever (B) in lock position. The gate can be locked in any position by means of the gate lock valve.

A—Lock Bushing

B—Gate Lock Lever

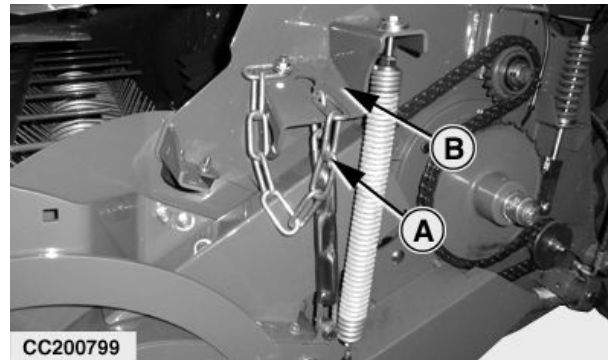


CC277479—UN—30NOV16

NB02380,000016A -19-29NOV16-1/1

Adjust Pickup Height

1. Fully raise the pickup with selective control valve lever.
2. Slide and remove chain (A) from bracket (B) on the left side.
3. Lower the pickup until the desired pickup height is reached.
4. Attach chain (A) to bracket (B) leaving the minimum of chain links (A) hanging as shown.
5. Act on selective control valve lever to fully lower the pickup.
6. Check pickup height.
7. Repeat procedure until the desired height is reached.



A—Chain

B—Bracket

CC200799—UN—12APR13

OUC006,0001A65 -19-03APR13-1/1

Adjust Pickup Float Spring

1. Unlock nut (A).
2. Adjust the pickup float spring by tightening screw (B) into spring plug until distance (C) is obtained.

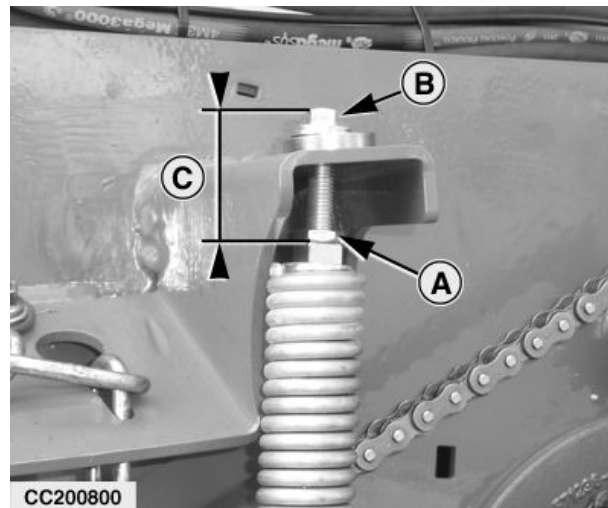
Specification

Pickup Float
Spring—Distance.....49—53 mm
(1.9—2.1 in.)

3. Lock nut (A).
4. Repeat procedure on opposite side.

This setting should allow the pickup to drop completely when lowered. If not, slightly reduce spring setting.

NOTE: When operating at heights other than the extreme down position, additional spring force will be required to obtain adequate float.



A—Nut
B—Screw

C—Distance

CC200800—UN—12APR13

OUC006,0001A66 -19-03APR13-1/1

Adjust Pickup Standard Gauge Wheels

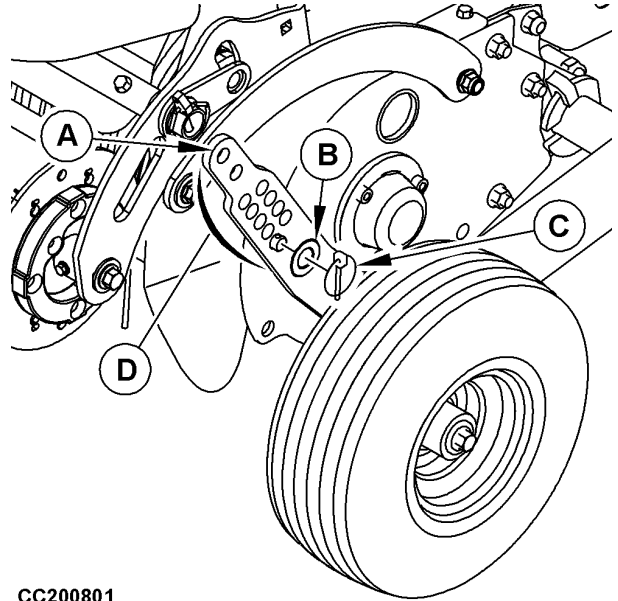
1. Adjust the pickup height. See [Adjust Pickup Height](#) in this section.
2. Act on selective control valve lever to fully lower the pickup.
3. Remove quick-lock pin (C) and washer (B) then choose one of the positioning holes (D) to fix support (A) so that gauge wheel is just above the ground.

NOTE: Gauge wheel must be approximately at the same height as pickup teeth. When baling straw it may be desirable to adjust gauge wheels slightly lower than the pickup teeth.

4. Install washer (B) and quick-lock pin (C).
5. Repeat procedure on opposite side.

A—Support
B—Washer

C—Quick-Lock Pin
D—Positioning Holes



CC200801

CC200801—UN—19APR13

OUC006,0001A58 -19-03APR13-1/1

Adjust Pickup Caster Gauge Wheels

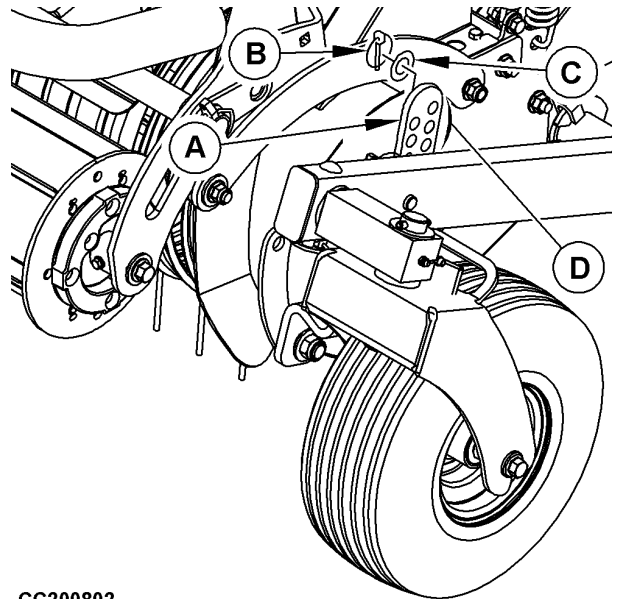
1. Adjust the pickup height. See [Adjust Pickup Height](#) in this section.
2. Act on selective control valve lever to fully lower the pickup.
3. Remove quick-lock pin (B) and washer (C) then choose one of the positioning holes (D) to fix support (A) so that caster gauge wheel is just above the ground.

NOTE: Gauge wheel must be approximately at the same height as pickup teeth. When baling straw it may be desirable to adjust gauge wheels slightly lower than the pickup teeth.

4. Install washer (C) and quick-lock pin (B).
5. Repeat procedure on opposite side.

A—Support
B—Quick-Lock Pin

C—Washer
D—Positioning Holes



CC200802

CC200802—UN—17APR13

OUC006,0001A57 -19-03APR13-1/1

Adjust Short Crop Deflector (If Equipped)

Adjust height of short crop deflector (A) as follows:

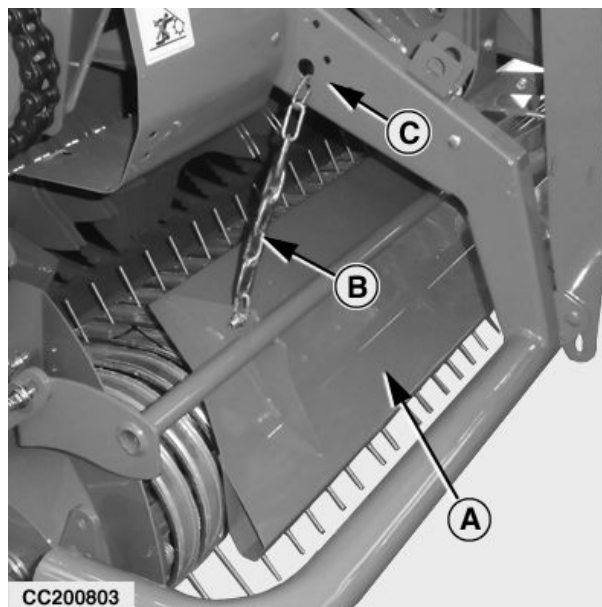
1. Adjust the pickup height. See [Adjust Pickup Height](#) in this section.
2. Hold short crop deflector (A) by hand, then remove chain (B) from bracket (C) on both sides.
3. Position short crop deflector (A) in order to obtain the desired space between tip of pickup teeth and short crop deflector (A) depending on the windrow thickness.
4. Attach chain (B) to bracket (C) as shown, leaving the minimum of chain links (B) hanging.

NOTE: Check that the number of chain links (B) is the same on both sides.

5. Let the short crop deflector (A) fall down.
6. Check height of short crop deflector (A) and repeat procedure, if needed.

A—Short Crop Deflector
B—Chain

C—Bracket



CC200803 —JUN—12APR13

OUC006,0001A59 -19-04APR13-1/1

Adjust Windrow Compressor Roll (If Equipped)

Adjust height of windrow compressor roll (A) as follows:

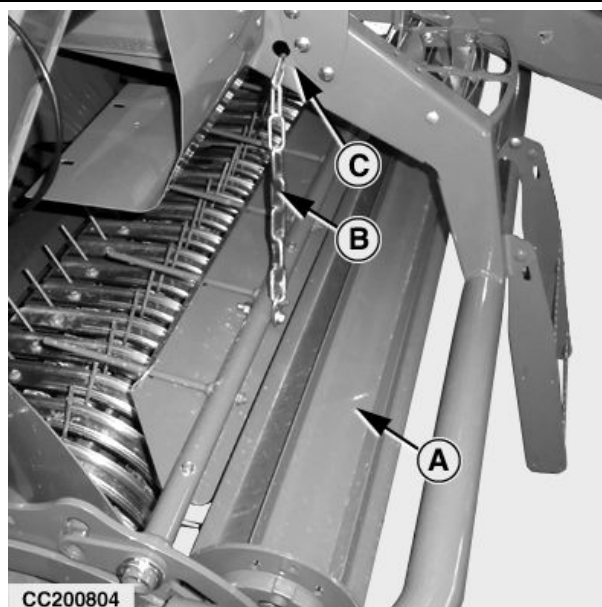
1. Fully raise the pickup with selective control valve lever.
2. Remove chain (B) from bracket (C) on both sides.
3. Slowly lower the pickup until the middle of windrow compressor roll (A) and the top of the windrow are aligned.
4. Attach chain (B) to bracket (C) as shown, leaving the minimum of chain links (B) hanging.

NOTE: Check that the number of chain links (B) is the same on both sides.

5. Fully lower the pickup.
6. Check height of windrow compressor roll (A), repeat procedure, if needed.

A—Windrow Compressor Roll
B—Chain

C—Bracket



CC200804 —JUN—12APR13

OUC006,0001A56 -19-10APR13-1/1

Feed the Material

Full pickup width windrows:

It is the ideal windrow width.

This windrow should be even with little or no crown. Too much crown results in barrel-shaped bales.

Full-width windrows are desirable since no weaving or crossing the windrow is necessary.

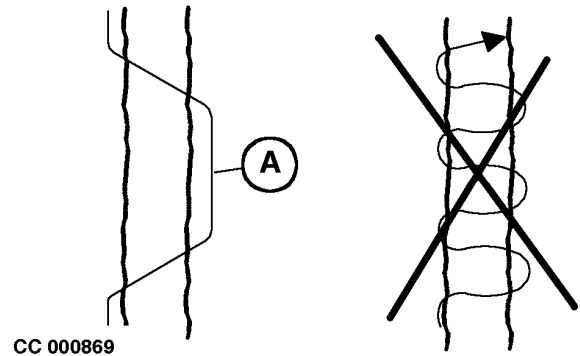
Narrow windrows:

Crowd the material into one side of the pickup for 6 to 8 seconds. Then cross over the windrow and crowd material into the opposite side for the same time frame. Reduce the "hold" period (A) in heavy windrows and increase it in lighter windrows.

See Guidelines to Form a Good Bale in this section to feed the machine correctly.

Bales formed in this way are more uniform than bales formed by continuously driving the tractor in a weaving pattern as shown. Weaving continuously places excessive material in the center of the bale.

Medium-sized windrows:



CC 000869

A—Hold Period

Whenever possible, avoid medium-sized windrows.

When the operator crosses this type of windrow to feed the ends of the pickup, material continues to be fed into the center. As a result, more material is fed into the center of the bale than at the ends, it results in barrel-shaped bales.

CC000869 —UN—05APR95

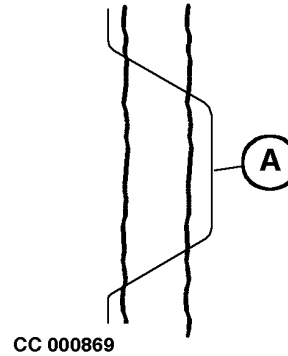
NB02380,000016F -19-04NOV16-1/1

Guidelines to Form a Good Bale

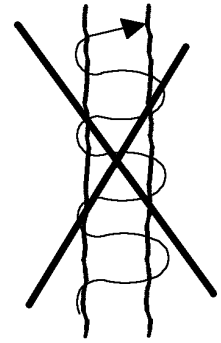
1. Start feeding windrow in the center of baler.
2. Weave quickly to one side of the windrow and feed the baler for several meters as close as possible to the side sheet.field.

NOTE: Weave back and forth across the windrow quickly in a crisp zigzag fashion to balance crop intake side-to-side. Weaving too often or too slowly puts too much crop in the center of the bale.

3. Weave quickly to the other side of the windrow and feed the baler for several meters as close as possible to the side sheet.
4. Weave quickly back to the other side and feed the baler as close as possible to the side sheet. Continue feeding this side for several meters.
5. Then quickly drive to the other side and continue feeding this side for several meters.



A—Hold Distance

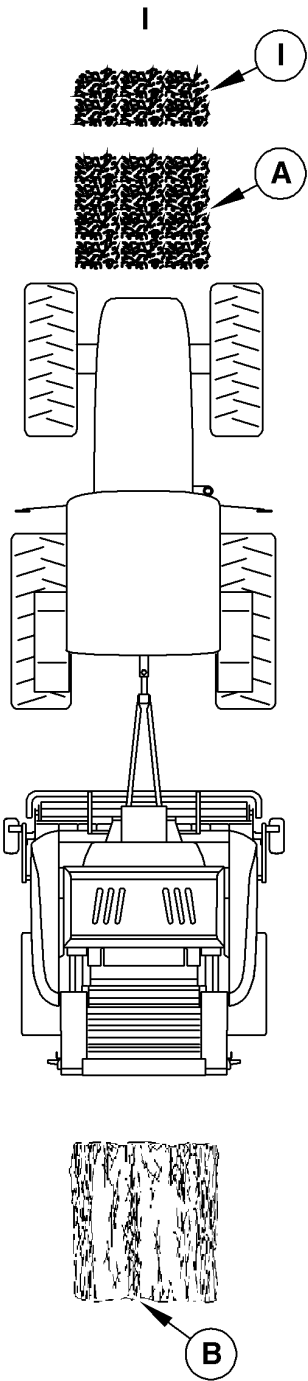


6. Continue to feed in this manner. Then finish up the bale until target diameter is reached and net binding starts.

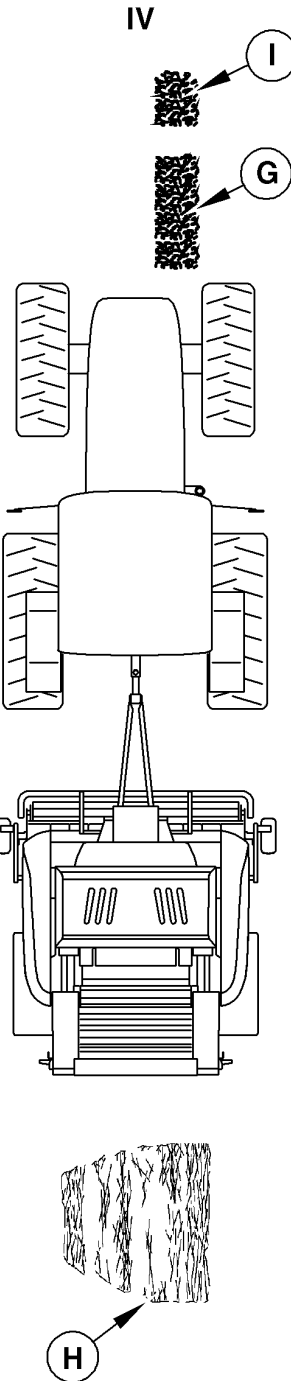
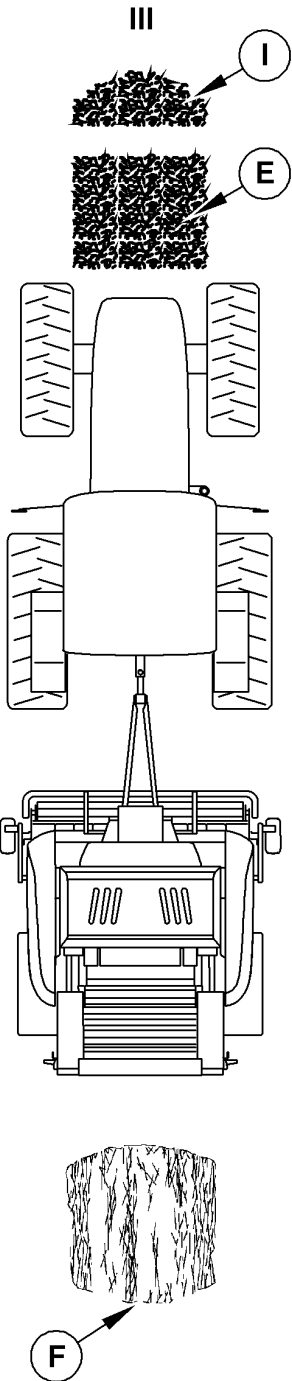
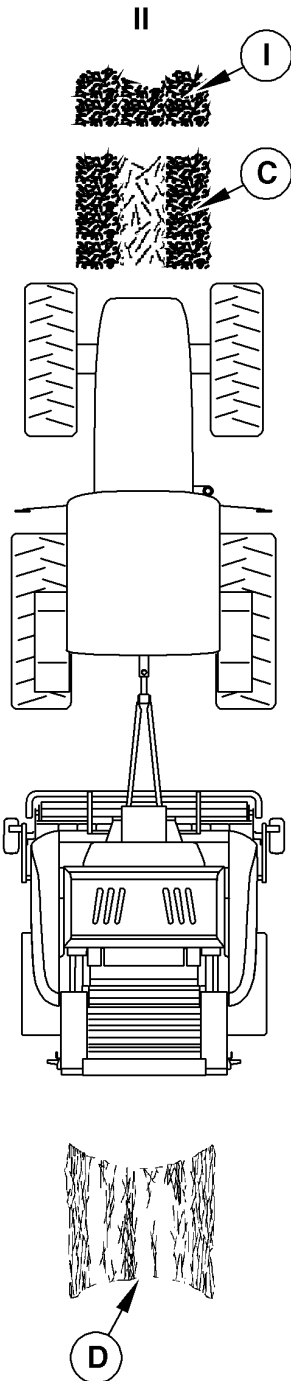
Continued on next page

CC03745,0001238 -19-08AUG17-1/3

CC000869 —UN—05APR95



CC287038



CC287038 —UN—02SEP16

Continued on next page

CC03745,0001238 -19-08AUG17-2/3

The illustration on the facing page and the following information describe the relationship between windrow variations and actual bale shape.

I— Best shape bales (B) are formed when windrow (A) has uniform density side-to-side and the width is the same as bale chamber. Weaving is not necessary.

If it is not practical, create windrows up to one-half the width of the bale chamber.

II— If the full-width windrow (C) is heavy on the outside edges and light at the center, an hourglass shaped bale (D) is formed.

If possible, weaving back and forth across windrow helps fill the middle of the bale. Otherwise, proper windrow formation (raking, etc.) is needed.

III— Barrel shaped bale (F) is formed if any of the following conditions exists:

- Windrow width (E) is approximately 2/3—3/4 the width of the baler.
- Windrow is correct but operator does not weave over far enough.
- The windrow is full width but heavier density in the middle of the windrow.
- Weaving back and forth too frequently.

If the windrow is almost as wide as the bale chamber, reduce tractor rpm and increase ground speed to spread material across pickup.

Windrow should be less than one-half bale chamber or full width of the bale chamber. If necessary, rake windrow to obtain correct width.

IV— If narrow windrow (G) is baled without weaving back and forth, a cone shaped bale (H) is formed.

CC03745,0001238 -19-08AUG17-3/3

Bale Short, Dry, Slick Crops

In case of plugging, try one or more of the following methods:

- Raise pickup as high as needed.
- Reduce tractor PTO speed.
- Reduce bale density as necessary.
- Set bale full size to minimum.

- Make larger windrows (rake together as necessary).
- Replace broken pickup teeth.
- Install straw deflector on the baler. See Attachments section.
- Install bottom belt kit on the baler. See Attachments section.
- It may be necessary to reduce number of precutter knives or to remove them.

YL00305,0000002 -19-20FEB15-1/1

Operate the Baler in Cornstalks

Cut stalks prior to baling to improve pickup tooth life.

Raise machine and lower the pickup (teeth must not touch the ground) to increase the feed opening.

Do not rake more than six rows together or plugging may occur at the pickup area. Higher productivity can be obtained by baling smaller windrows at faster ground speeds.

Be sure to maintain rated PTO speed.

In case of baler with precutter device:

If stalks have not been cut prior to baling, put precutter knives in cutting position and slowly drive over the windrow to improve pickup tooth life.

CC03745,0000F94 -19-11MAY09-1/1

Operate the Baler in Silage and Damp Crops

Always start the bale with pickup centered on the windrow.

Do not stop forward travel for at least 2—3 m (8—10 ft.) once you have entered the crop, so as to feed enough material to force the bale to start.

To ensure smooth feeding, make sure tractor drawbar does not catch or disturb windrow.

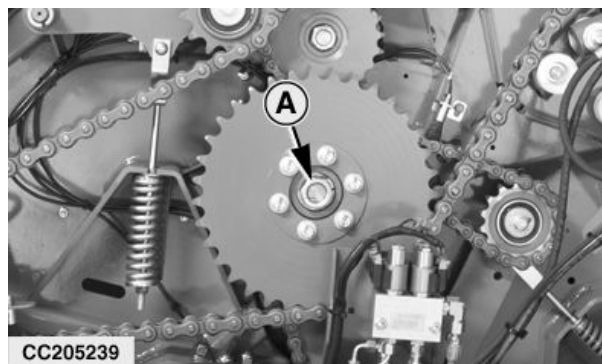
OUCC006,0001B4C -19-31OCT13-1/1

Rotate Baler by Hand

⚠ CAUTION: DO NOT TAKE CHANCES! Never use any type of tool or spanner to turn baler by hand while tractor engine is running. Disengage the PTO, place transmission in PARK, engage park brake, shut off engine, remove ignition key and wait for moving parts to come to a standstill. Always remove tool as soon as you have finished using it.

A spanner can be used to turn nut (A) if it is necessary to rotate baler by hand.

A—Nut

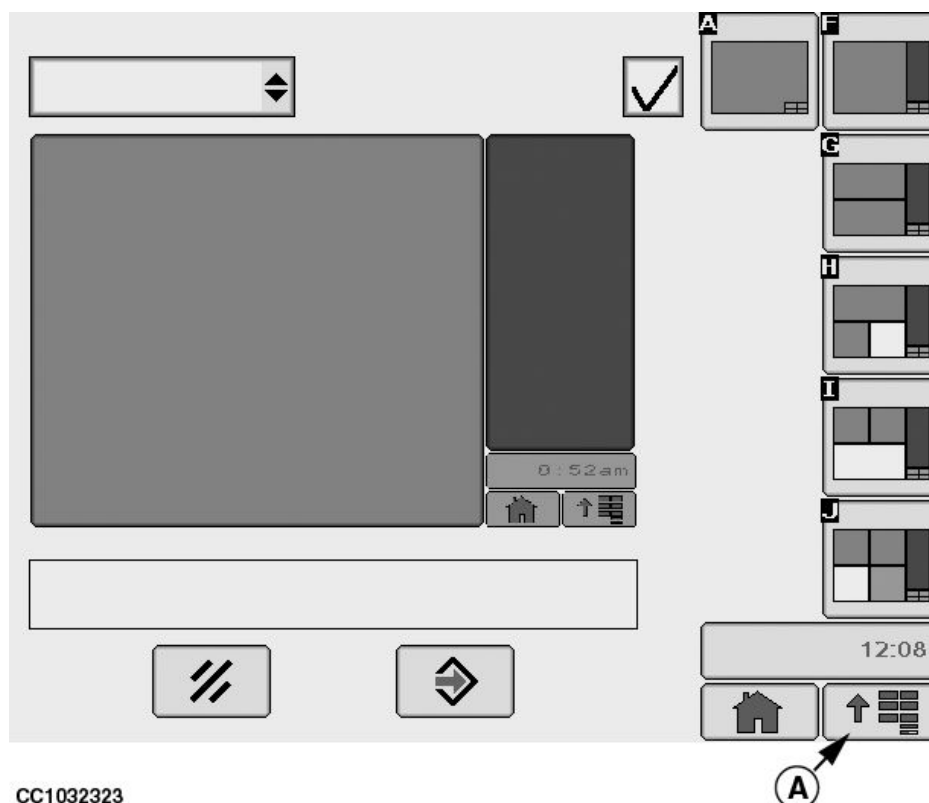


CC205239 —UN—10OCT13

OUC006,0001ADE -19-04SEP13-1/1

Operating Baler Application

Baler Application Access



CC1032323

GreenStar 2600 Display Shown

NOTE: John Deere monitors are automatically switched ON when the ignition key is turned ON.

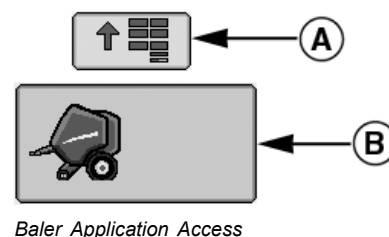
CC295830 —UN—22SEP16

The first time baler is connected to the monitor or after a software update, it is required to wait until the baler application is loaded (8 to 10 minutes).

If the baler application is not automatically displayed, select display menu softkey or button (A), then select baler application softkey (B).

NOTE: For more information about the display, see your monitor operator's manual.

CC295830



Baler Application Access

A—Display Menu Softkey or Button

B—Baler Application Softkey

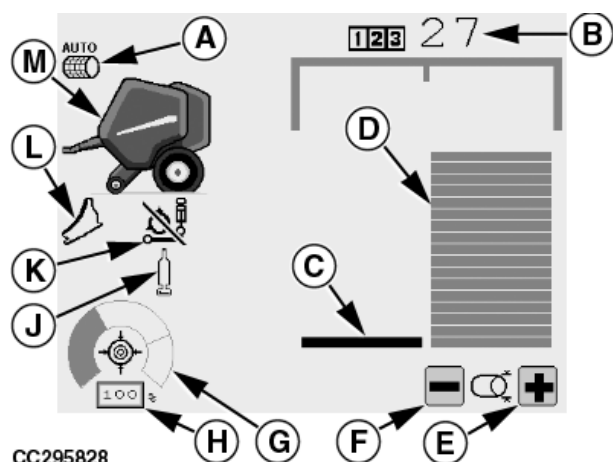
JC87117,0000283 -19-28NOV16-1/1

Units of Measure

In the baler application, units of measure depend on the monitor settings. Refer to your monitor operator's manual to select the desired units of measure.

OUCC006,00015A0 -19-15DEC09-1/1

Baler Main Page Description



CC295828

Baler Main Page Display with Other Display

- A—Binding Mode
- B—Current Field Bale Counter
- C—Current Bale Diameter
- D—Target Bale Diameter
- E—Plus Key (Bale Diameter)
- F—Minus Key (Bale Diameter)
- G—Bale Density Indicator

NOTE: Screen layout can change depending on the monitor.

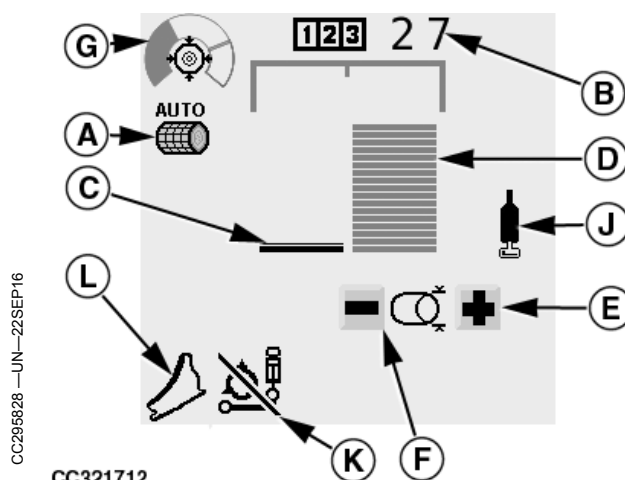
The main page allows the baler functions to be controlled and monitored while operating in the field.

Binding Mode symbol (A) indicates the selected binding mode: Automatic or Manual. Binding Mode symbol (A) is crossed out when the selected binding start mode is automatic but unavailable. See [Select Binding Start Mode](#) in this section.

Bale counter (B) indicates the total number of bales done for the selected field. See [Customer and Field Counters](#) in this section.

Current bale diameter (C) indicates the current diameter of the bale.

Target bale diameter (D) indicates the setting of the bale diameter. In automatic binding mode, when the current bale diameter (C) reaches target bale diameter (D), binding process starts.



CC295828 —UN—22SEP16

CC321712

Baler Main Page Display with Implement Display 1100

- H—Bale Density Pressure Setting
- J—Greasing System Indicator
- K—Drop Floor Position
- L—Precutter Knife Status
- M—Baler Status

Bale density indicator (G) indicates the relative pressure in bale chamber. See [Adjust Bale Density](#) in this section.

Greasing System indicator (J) indicates the automatic greasing system status: Enable or Disable, ON Time or OFF Time. Indicator (J) is crossed out when the automatic greasing system is disabled. See [Set Automatic Greasing System \(If Equipped with Reservoir-Type Pump\)](#) in Baler Application Service section.

Drop Floor Position symbol (K) indicates that the drop floor is down. When the drop floor is lowered, symbol (K) flashes until the drop floor is raised. When the drop floor is raised, symbol (K) is not displayed. See [Unplug Pickup](#) in this section.

Precutter Knife Status symbol (L) indicates the precutter knife position, Retracted or Engaged. Symbol (L) is crossed out when no precutter knife is engaged. See [Retract or Engage Precutter Knives](#) in this section.

Baler status (M) is used to monitor the binding processes and the rear gate position.

TL81334,000004C -19-06JUL17-1/1

Softkey Description

In the baler application, softkeys allows to navigate, start a process and enable or disable an associated function.

NOTE: Some softkeys have a triangle (A) on the upper right corner. This triangle (A) indicates that a new page will be displayed if this softkey is activated.

CC1032341 —UN—15JAN10



CC1032341

A—Triangle

OUC006,00015C0 -19-15JAN10-1/1

Baler Application Softkey Designation

CC277965 —UN—22SEP16

Main Page softkey.

This softkey provides direct access to baler application main page. See [Baler Main Page Description](#) in this section.

NOTE: This softkey is available on all pages of the baler application.



CC277965

TL81334,000004D -19-06JUL17-1/27

Counters softkey.

CC1031613 —UN—16SEP09

See [Customer and Field Counters](#), [Season and Machine Total Counters](#) in this section.

NOTE: This softkey is available on all pages of the baler application.

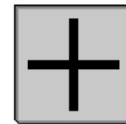


CC1031613

TL81334,000004D -19-06JUL17-2/27

Remove Bales and Add Bales softkeys.

CC1031852 —UN—30SEP09

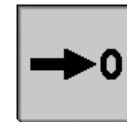


CC1031852

TL81334,000004D -19-06JUL17-3/27

Clear Current Counter softkey.

CC1031815 —UN—16SEP09

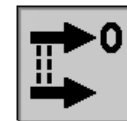


CC1031815

TL81334,000004D -19-06JUL17-4/27

Clear All Counters softkey.

CC1031816 —UN—16SEP09



CC1031816

TL81334,000004D -19-06JUL17-5/27

Customer and Field Counter softkey.

CC222031 —UN—07NOV14



CC222031

Continued on next page

TL81334,000004D -19-06JUL17-6/27

Season and Total Counter softkey.

CC222032 —UN—07NOV14



CC222032

TL81334,000004D -19-06JUL17-7/27

Start Net Binding Cycle Softkey

CC321713 —UN—29JUN17

See [Manual Start of Binding Cycle](#) in this section.



CC321713

TL81334,000004D -19-06JUL17-8/27

Stop Binding Cycle softkey.

CC1031890 —UN—19OCT09

See [Manual Start of Binding Cycle](#) in this section.



CC1031890

TL81334,000004D -19-06JUL17-9/27

Net Binding Start Mode softkey.

CC321714 —UN—29JUN17

See [Select Binding Start Mode](#) in this section.



CC321714

TL81334,000004D -19-06JUL17-10/27

Net Binding Settings softkey.

CC321715 —UN—29JUN17

See [Adjust Net Binding](#) in this section.



CC321715

TL81334,000004D -19-06JUL17-11/27

Retract Actuator and Extend Actuator softkeys.

CC1031854 —UN—30SEP09



CC1031854

Continued on next page

TL81334,000004D -19-06JUL17-12/27

Drop Floor and Precutter Knife Management softkey.
See Retract or Engage Precutter Knives and Unplug Pickup in this section.

CC1031618 —UN—16SEP09



CC1031618

TL81334,000004D -19-06JUL17-13/27

Drop Floor and Precutter Knife softkey.
See Unplug Pickup in this section.

CC1031805 —UN—16SEP09



CC1031805

TL81334,000004D -19-06JUL17-14/27

Drop Floor softkey.
See Unplug Pickup in this section.

CC1031806 —UN—16SEP09



CC1031806

TL81334,000004D -19-06JUL17-15/27

Precutter Knife Set 1 softkey.
See Retract or Engage Precutter Knives in this section.

CC1031807 —UN—16SEP09



CC1031807

TL81334,000004D -19-06JUL17-16/27

Precutter Knife Set 2 softkey.
See Retract or Engage Precutter Knives in this section.

CC1032652 —UN—24NOV10



CC1032652

TL81334,000004D -19-06JUL17-17/27

Settings softkey.
See this section and Baler Application Service section.
NOTE: This softkey is available on all pages of the baler application.

CC277966 —UN—22SEP16



CC277966

Continued on next page

TL81334,000004D -19-06JUL17-18/27

Operating Baler Application

Next Page and Previous Page softkeys.

CC277967 —UN—22SEP16



CC277967

TL81334,000004D -19-06JUL17-19/27

Baler Diagnostic softkey.

See Baler Application Service section.

CC1031614 —UN—16SEP09



CC1031614

TL81334,000004D -19-06JUL17-20/27

Input Test softkey.

See Test Sensors and Switches in Baler Application Service section.

CC277969 —UN—22SEP16



CC277969

TL81334,000004D -19-06JUL17-21/27

Output Test softkey.

See Test Electro-Hydraulic Components in Baler Application Service section.

CC277970 —UN—22SEP16



CC277970

TL81334,000004D -19-06JUL17-22/27

Baler Calibration softkey.

See Baler Application Service section.

CC1031658 —UN—16SEP09



CC1031658

TL81334,000004D -19-06JUL17-23/27

Gate Position Calibration softkey.

See Calibrate Gate Position Potentiometer RB331 in Baler Application Service section.

CC277971 —UN—22SEP16



CC277971

Continued on next page

TL81334,000004D -19-06JUL17-24/27

Net binding Device Light softkey.

CC277972 —UN—22SEP16

See [Net Binding Device Light and Side Door Lights \(If Equipped\)](#) in Operating Baler Application section.



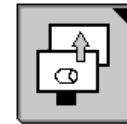
CC277972

TL81334,000004D -19-06JUL17-25/27

Select Virtual Terminal softkey.

CC277988 —UN—22SEP16

See [Switch Baler Application from Current Virtual Terminal to Another](#) in Baler Application Service section.



CC277988

TL81334,000004D -19-06JUL17-26/27

Advanced Settings softkey.

CC1034498 —UN—07JUL11

See your John Deere dealer.



CC1034498

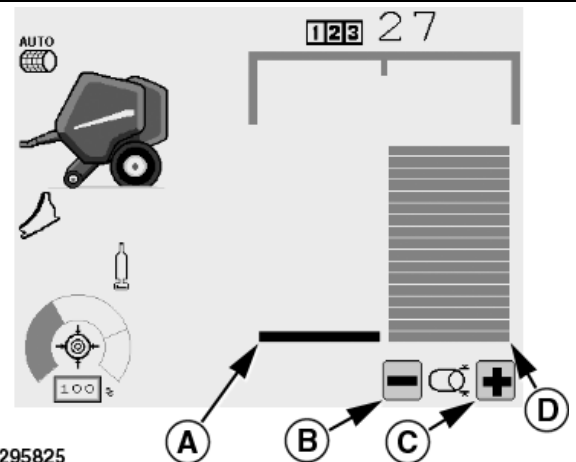
TL81334,000004D -19-06JUL17-27/27

Set Bale Diameter

This adjustment will determine the diameter at which the binding cycle will automatically start.

On the main page, press Plus softkey (C) or Minus softkey (B) to respectively increase or decrease bale diameter target. Target bale diameter bar graph (D) displays current setting.

NOTE: If bale diameter target (D) is changed while baling, the new setting is applied instantaneously.



CC295825

CC295825 —UN—22SEP16

A—Current Bale Diameter
B—Minus Softkey

C—Plus Softkey
D—Bale Diameter Target

Recommended maximum bale diameter target for each crop

Forage type	Silage	Haylage	Hay	Straw
Maximum bale diameter target	Maximum setting	Half setting	Less than half setting	Less than half setting

CC03745,0001239 -19-09AUG17-1/1

Near Full Alarm

CC277966 —UN—22SEP16

If the near full alarm is enabled, monitor beeps two times when second bar of the current bale diameter is displayed. Near full Alarm symbol is displayed after current bale diameter is over 1 bar (14.5 psi).



CC277966

1. From the baler application main page, select Settings softkey.

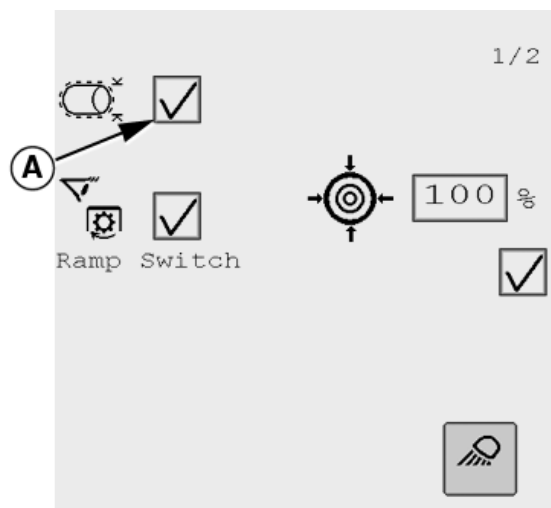
TL81334,000004E -19-07JUL17-1/3

2. Checkbox (A) enables or disables the near full alarm.

- Tick checkbox (A) to enable the near full alarm.
- Do not tick checkbox (A) to disable the near full alarm.

NOTE: See *Automatic Start of Binding Cycle* in this section for more information about near full Alarm symbol.

A—Near Full Alarm



CC321722

CC321722 —19—03JUL17

TL81334,000004E -19-07JUL17-2/3

3. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

TL81334,000004E -19-07JUL17-3/3

Select Binding Start Mode

CC321714 —UN—29JUN17

1. From the baler application main page, select and activate Net Binding Start Mode softkey to choose between automatic and manual mode.



CC321714

Continued on next page

TL81334,000004F -19-09AUG17-1/2

2. Symbol (A) indicates the selected binding start mode.

If automatic is selected, the binding cycle starts automatically when the adjusted bale diameter is reached. See [Automatic Start of Binding Cycle](#) in this section.

NOTE: Symbol (A) is crossed out when the selected binding start mode is automatic but unavailable because any of the following conditions exist:

- Automatic binding cycle is already running.
- Baler gate is not closed.
- A diagnostic trouble code for the gate or the binding system is active.

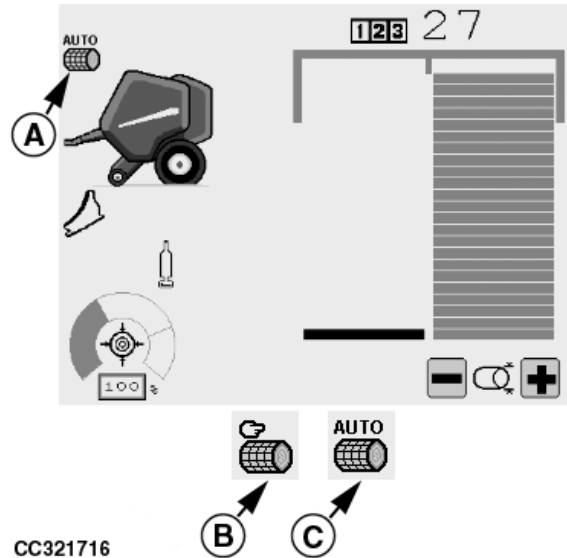
If manual is selected, the binding cycle must be started manually. See [Manual Start of Binding Cycle](#) in this section.

A—Binding Start Mode

B—Manual Start (Net Binding)

C—Automatic Start (Net Binding)

CC321716



CC321716—UN—30JUN17

TL81334,000004F -19-09AUG17-2/2

Adjust Net Binding

CC321715 —UN—29JUN17

1. From the baler application main page, select Net Binding Settings softkey.



CC321715

Continued on next page

TL81334,0000050 -19-09AUG17-1/3

2. Set net binding as follows:

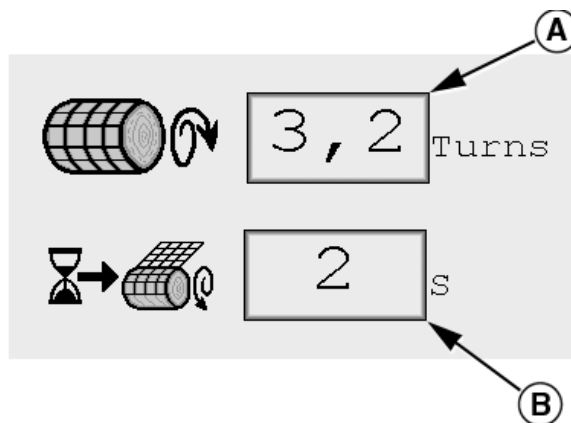
• **Number of Net Turns (A):**

Set the number of net turns between 1.2 and 10 in input box (A).

The minimum recommended number of net turn is 2.2.

The number of net turns depends on crop material, harvesting condition (temperature), bale density and net manufacturer. The number of net turns needs to be adjusted according to the situation in the field.

NOTE: To ensure a good overlap of net layers, it is advised to use decimal values between X.3 and X.5.



CC321717

CC321717 —19-04AUG17

A—Number of Net Turns

B—Net Binding Delay

Recommendations for number of net turns		
Adjusted bale density	Crop Type	
	Silage	Hay / Straw
0 — 55 %	=	=
55 — 65 %	=	+ +
65 — 100 %	=	+ + to + + +

• **Net Binding Delay (B):**

Set net binding delay between 0 and 9 seconds in input box (B). The net binding delay is the time between the binding start indication on the monitor and the activation of the net actuator. The net binding delay provides time to stop tractor forward

travel, thus avoiding crop from getting trapped between net layers.

NOTE: The initial factory setting is 0 seconds.

TL81334,0000050 -19-09AUG17-2/3

3. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

TL81334,0000050 -19-09AUG17-3/3

Automatic Start of Binding Cycle

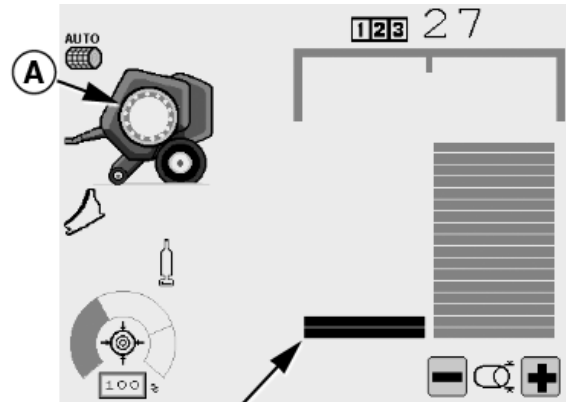
NOTE: To allow automatic start of binding cycle, binding start mode must be automatic. See Select Binding Start Mode in this section.

1. When the second bar of current bale diameter (B) is displayed, the near full symbol (A) is displayed, and the monitor beeps twice (if the near full alarm is enabled). To enable or disable near full alarm offset, see Near Full Alarm in this section.
2. When the adjusted bale diameter is reached, the monitor beeps continuously for 3 seconds. Immediately stop the tractor. The binding process symbol (C) indicates that the net is feeding.

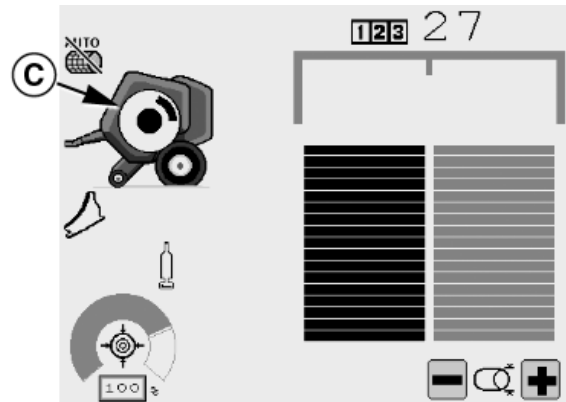
A—Near Full Symbol

B—Current Bale Diameter

C—Binding Process Symbol



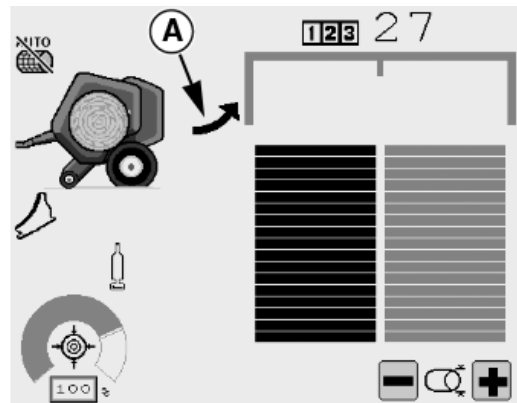
CC321723



CC321724

3. When the binding cycle is completed, the bale ejection symbol (A) is displayed and the monitor beeps four times.
4. Open the rear gate of the baler with the tractor selective control valve lever to dump the bale. Use the display to monitor the rear gate position.

A—Bale Ejection Symbol



CC321725

Continued on next page

TL81334,0000051 -19-09AUG17-2/3

CC321723—UN—03JUL17

CC321724—UN—03JUL17

CC321725—UN—03JUL17

- If a problem occurs during binding cycle, select Stop Binding Cycle softkey to interrupt binding cycle and retract actuator.

CC1031890 —UN—19OCT09



CC1031890

TL81334,0000051 -19-09AUG17-3/3

Manual Start of Binding Cycle

CC321713 —UN—29JUN17

A binding cycle can be manually started at any time.

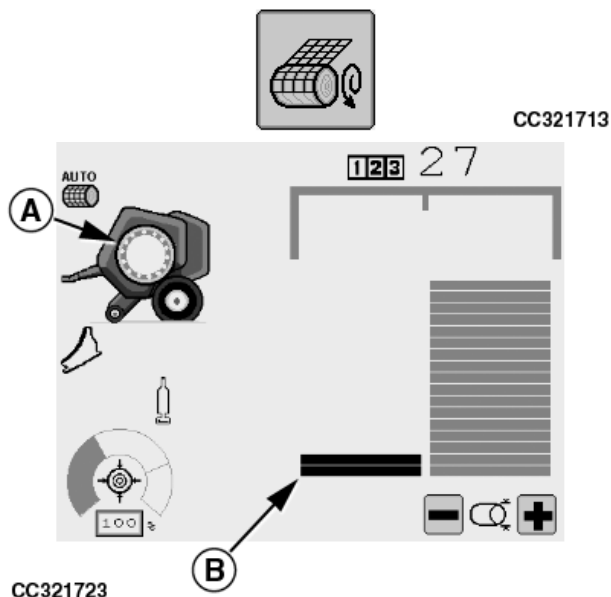
To ensure good binding conditions, start binding when the near full alarm symbol (A) is displayed.

NOTE: If binding start mode is automatic, the binding cycle starts automatically when the adjusted bale diameter is reached. See [Automatic Start of Binding Cycle](#) in this section.

- To start a binding cycle, select Start Net Binding Cycle softkey from the baler application main page.

A—Near Full Symbol

B—Current Bale Diameter

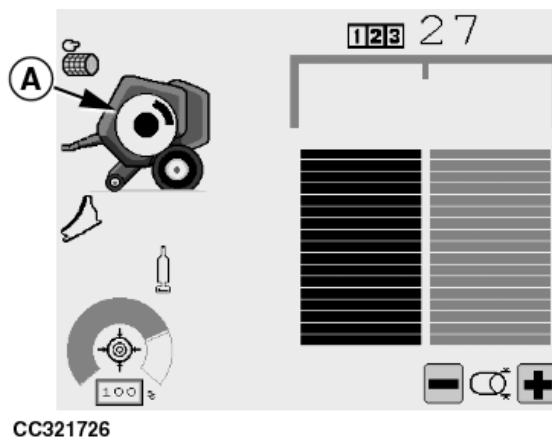


CC321723 —UN—03JUL17

TL81334,0000052 -19-09AUG17-1/4

- Binding process symbol (A) allows the binding cycle to be monitored.

A—Binding Process Symbol



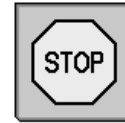
CC321726 —UN—03JUL17

Continued on next page

TL81334,0000052 -19-09AUG17-2/4

3. If a problem occurs during the binding cycle, select Stop Binding Cycle softkey to interrupt binding cycle and retract actuator.

CC1031890 —UN—19OCT09

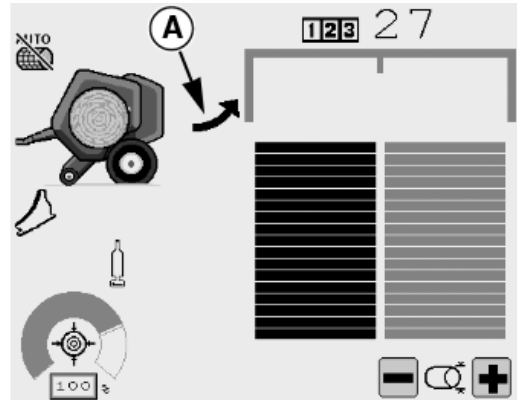


CC1031890

TL81334,0000052 -19-09AUG17-3/4

4. When the binding cycle is completed, the bale ejection symbol (B) is displayed and the monitor beeps four times.
5. Open the rear gate of the baler with the tractor selective control valve lever to dump the bale. Use the display to monitor the rear gate position.

A—Bale Ejection Symbol



CC321725

CC321725 —UN—03JUL17

TL81334,0000052 -19-09AUG17-4/4

Adjust Bale Density

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.



CC277966

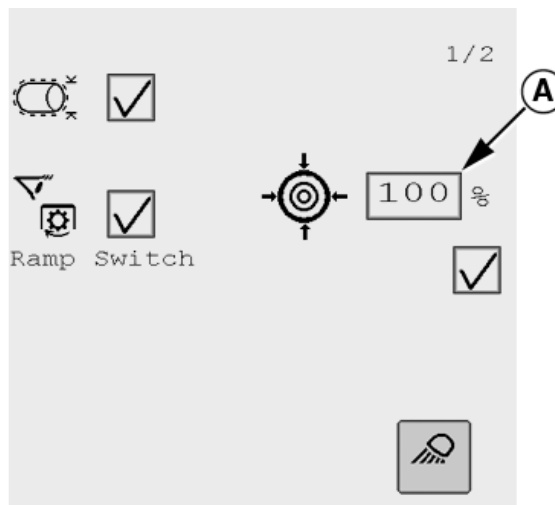
Continued on next page

TL81334,0000058 -19-07JUL17-1/4

2. Select input box (A) and set the bale density from 0 % (minimum density) to 100 % (maximum density).

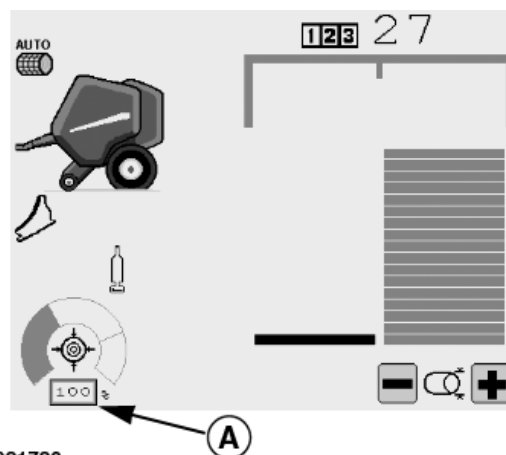
With display other than Implement Display 1100, bale density (A) can be set on main page.

A—Bale Density



CC321727

CC321727 —19—18JUL17



CC321728

CC321728 —UN—03JUL17

TL81334,0000058 -19-07JUL17-2/4

3. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

Continued on next page

TL81334,0000058 -19-07JUL17-3/4

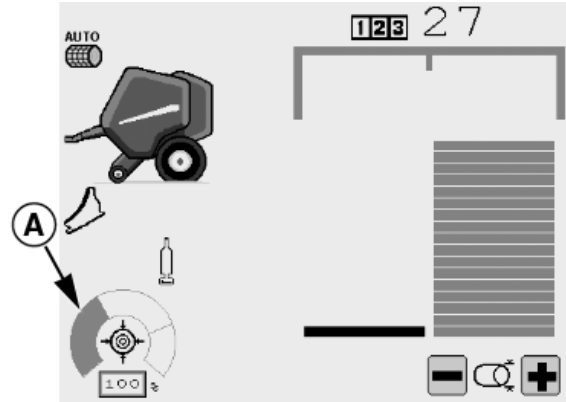
- On the main page, indicator (A) indicates the relative pressure within the hydraulic gate system.

NOTE: 0 % density setting corresponds to approximately 50 % of bale density indicator (A).

Indicator (A) remains green while the baler is in normal operating pressure range.

Indicator (A) turns from green to red as soon as the baler exceeds the normal operating pressure range. In this case, reduce bale density.

A—Bale Density Indicator



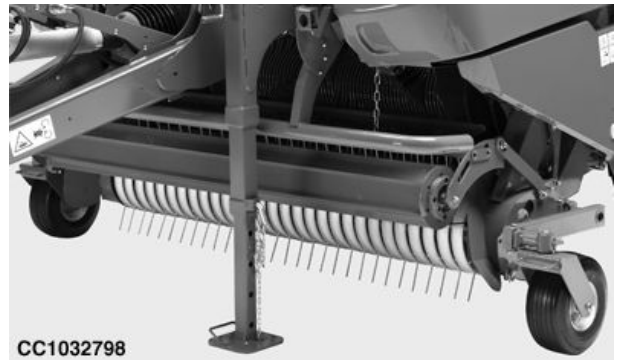
CC321729

CC321729 —UN—04JUL17

TL81334,0000058 -19-07JUL17-4/4

Raise or Lower the Pickup

The pickup raise or lower function is automatically selected. Actuate tractor selective control valve lever to raise or lower the pickup.



CC1032798

CC1032798 —UN—23NOV10

OUCC006,000162F -19-07DEC10-1/1

Retract or Engage Precutter Knives

The precutter device is used to chop the crop.

- From the baler application main page, select Drop Floor and Precutter Knife Management softkey.



CC1031618

CC1031618 —UN—16SEP09

TL81334,0000053 -19-07JUL17-1/4

- Select Precutter Knife Set 1 or Precutter Knife Set 2 (if equipped) softkey to activate the retract or engage knife function for the desired precutter knife set.

NOTE: The precutter knife set 1 includes 13 precutter knives and the precutter knife set 2 includes 12 precutter knives.

Distance between knives is 40 mm (1-9/16 in) with 25 knives engaged and 80 mm (3-5/32 in) with 12 or 13 knives engaged.

CC1031807 —UN—16SEP09



CC1031807

Precutter Knife Set 1 Softkey

CC1032652 —UN—24NOV10



CC1032652

Precutter Knife Set 2 Softkey

Continued on next page

TL81334,0000053 -19-07JUL17-2/4

3. Actuate tractor selective control valve lever to retract or engage the selected set of precutter knives.

NOTE: Retract or engage knife function uses the same selective control valve as raise or lower the pickup.

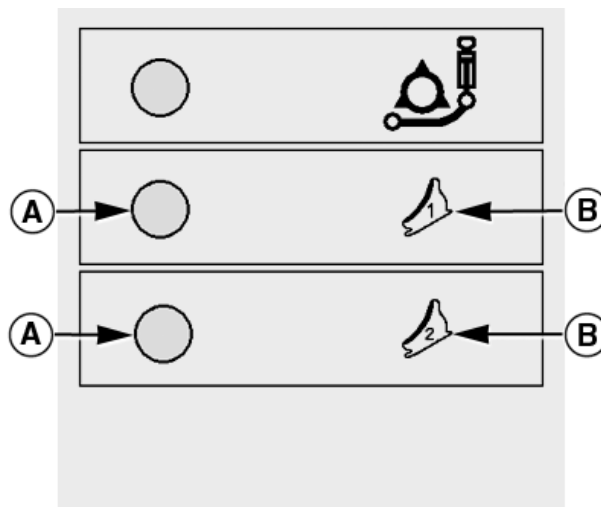
The retract or engage knife function status (A) is displayed green to indicate that the retract or engage knife function is activated for the precutter knife set 1.

The retract or engage knife function status (A) is displayed red to indicate that the retract or engage knife function is deactivated for the precutter knife set 2.

4. Knife position symbol (B) is crossed out when the precutter knife set is not engaged.

IMPORTANT: Retract and engage precutter knives several times after each working day to prevent from jamming.

NOTE: When using baler with precutter knives retracted for a long time, it is recommended to remove knives and install fillers to plug the knife slot. See Replace Precutter Knives in Service section.



CC321718

A—Retract or Engage Knife Function Status

B—Knife Position Symbol

CC321718 —UN—30JUN17

TL81334,0000053 -19-07JUL17-3/4

5. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

TL81334,0000053 -19-07JUL17-4/4

Unplug Pickup

CC1031618 —UN—16SEP09

Whenever it is necessary to unplug the baler, lower the drop floor to increase the empty space beneath the rotary feeder.

1. Stop tractor and disengage the PTO.
2. From the baler application main page, select Drop Floor and Precutter Knife Management softkey.



CC1031618

Continued on next page

TL81334,0000054 -19-07JUL17-1/4

- Act on the selective control valve lever to lower the drop floor and retract precutter knives (if engaged) at the same time.

NOTE: "Raise or lower the drop floor" function uses the same selective control valve as raise or lower the pickup.

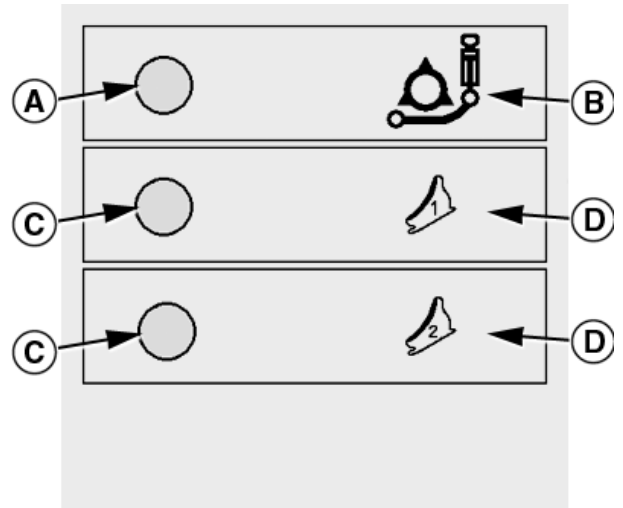
The Drop floor function status (A) is displayed green to indicate that the "raise or lower drop floor" function is activated. The Precutter knife function status (C) is automatically displayed green if precutter knives are engaged.

Drop floor lowered symbol (E) and precutter knives retracted symbol (F) indicate that the drop floor is lowered and the precutter knives are retracted.

- When the drop floor is lowered, slowly engage the PTO at slow tractor idle until rotary feeder turns freely.
- When the baler is unplugged, act on selective control valve lever to raise the drop floor and engage precutter knives (if activated).
- Put the selective control valve lever to neutral position.

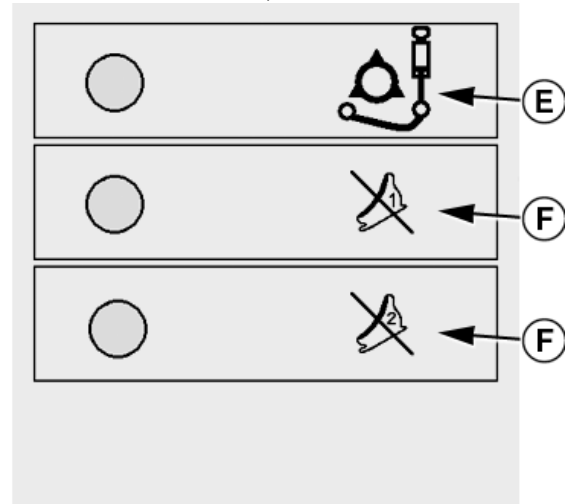
A—Drop Floor Function Status
B—Drop Floor Raised Symbol
C—Precutter Knife Function Status

D—Precutter Knives Engaged Symbol
E—Drop Floor Lowered Symbol
F—Precutter Knives Retracted Symbol



CC321719

Baler with Precutter, 25 Knives Shown



CC321730

Baler with Precutter, 25 Knives Shown

TL81334,0000054 -19-07.JUL17-2/4

- Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

Continued on next page

TL81334,0000054 -19-07.JUL17-3/4

NOTE: If needed, select the Drop Floor softkey to activate the "raise or lower drop floor" function only or select Drop Floor and Precutter Knife softkey to activate the "raise or lower drop floor" and the "retract or engage knife" functions at the same time.

CC1031806 —UN—16SEP09



CC1031806

Drop Floor Softkey

CC1031805 —UN—16SEP09



CC1031805

Drop Floor and Precutter Knife Softkey

TL81334,0000054 -19-07JUL17-4/4

Customer and Field Counters

CC1031613 —UN—16SEP09



CC1031613

The counter function includes 10 possible customers and a list of 10 field counters per customer. These counters can be used to store daily number of bales or number of bales per field.

The bale must be bound and the rear gate must be fully opened and closed to add a bale to the current field counter.

Select Customer and Field Number:

- From the baler application main page, select Counters softkey.

TL81334,0000055 -19-09AUG17-1/8

- Select customer number:
 - Select and activate drop-down list (A).
 - Select the desired customer number from 1 to 10.
 - The list shows the total number of bales of the 10 fields for the selected customer.
- Select field number:
 - Select and activate drop-down list (B).
 - Select the desired field number from 1 to 10.

NOTE: Current field indicator (C) is displayed to indicate which field number is selected.

The bale counter of the current field is also displayed on the main page. See [Baler Main Page Description](#) in this section.

Field	Bales
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
Total:	0

CC321731

A—Customer Number
B—Field Number

C—Current Field Indicator

Continued on next page

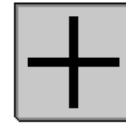
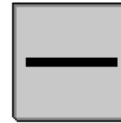
TL81334,0000055 -19-09AUG17-2/8

CC321731 —19—04JUL17

Add or Remove Bales in Current Field Counters:

CC1031852 —UN—30SEP09

If needed, select Remove Bales or Add Bales softkey to adjust the total number of bales for the current field counter.



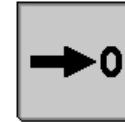
CC1031852

TL81334,0000055 -19-09AUG17-3/8

Clear Current Field Counter:

CC1031815 —UN—16SEP09

Select Clear Current Counter softkey to clear the current field bale counter.



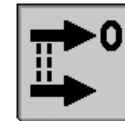
CC1031815

TL81334,0000055 -19-09AUG17-4/8

Clear Current Customer Counters:

CC1031816 —UN—16SEP09

Select Clear All Counters softkey to clear information about all fields of the selected customer.



CC1031816

TL81334,0000055 -19-09AUG17-5/8

Customer and Field Counters Softkey:

CC222031 —UN—07NOV14

Select Customer and Field Counters softkey to go to the customer and field counters page.



CC222031

TL81334,0000055 -19-09AUG17-6/8

Season and Total Counters Softkey:

CC222032 —UN—07NOV14

Select Season and Total Counters softkey to go to the season and total counters page.



CC222032

TL81334,0000055 -19-09AUG17-7/8

4. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

TL81334,0000055 -19-09AUG17-8/8

Season and Machine Total Counters

CC1031613 —UN—16SEP09

1. From the baler application main page, select Counters softkey.



CC1031613

TL81334,0000056 -19-07JUL17-1/8

2. From the counter page, select Season and Total Counters softkey.

CC222032 —UN—07NOV14



CC222032

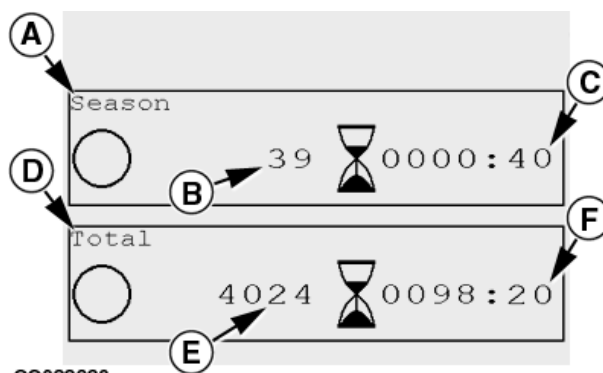
TL81334,0000056 -19-07JUL17-2/8

- a. Season counter (A):
The season counter (A) shows total number of bales for season (B) and total time of season (C).

- b. Machine total counter (D):
The machine total counter (D) shows the total number of bales (E) and the total time done by the machine (F).

A—Season Counter
B—Total Number of Bales for Season
C—Total Time of Season

D—Machine Total Counter
E—Total Number of Bales Done by the Machine
F—Total Time Done by the Machine



CC222033

CC222033 —UN—27NOV14

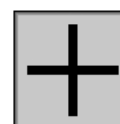
TL81334,0000056 -19-07JUL17-3/8

Add or Remove Bales in Season Counter (A):

CC1031852 —UN—30SEP09

Select Remove Bales or Add Bales softkey to adjust if necessary the total numbers of bales for season (B) counter.

NOTE: Changing the total number of bales for season (B) does not modify the current field bale counter.



CC1031852

TL81334,0000056 -19-07JUL17-4/8

Clear Season Counter (A):

CC1031815 —UN—16SEP09

Select Clear Current Counter softkey to clear the total number of bales for season (B) and total time of season (C).



CC1031815

Continued on next page

TL81334,0000056 -19-07JUL17-5/8

Customer and Field Counters Softkey:

CC222031 —UN—07NOV14

Select Customer and Field Counters softkey to go to the customer and field counters page.



CC222031

TL81334,0000056 -19-07JUL17-6/8

Season and Total Counters Softkey:

CC222032 —UN—07NOV14

Select Season and Total Counters softkey to go to the season and total counters page.



CC222032

TL81334,0000056 -19-07JUL17-7/8

3. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

TL81334,0000056 -19-07JUL17-8/8

Net Binding Device Light and Side Door Lights (If Equipped)

CC321715 —UN—29JUN17

Net Binding Device Light:

1. From the baler application main page, select Net Binding Settings softkey.



CC321715

TL81334,0000057 -19-09AUG17-1/7

2. Select Net Binding Device Light softkey to activate or deactivate the net binding device light.

Softkey background is yellow when the net binding device light is activated or grey when net binding device light is deactivated.

NOTE: When binding cycle is in process, the net binding device light is always activated. The operator can also deactivate the net binding

CC277972 —UN—22SEP16



CC277972

device light during a binding cycle by pressing the net binding Device Light softkey.

TL81334,0000057 -19-09AUG17-2/7

3. Select Main Page softkey to return to bale application main page.

CC277965 —UN—22SEP16



CC277965

Continued on next page

TL81334,0000057 -19-09AUG17-3/7

Side Door Lights:

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.



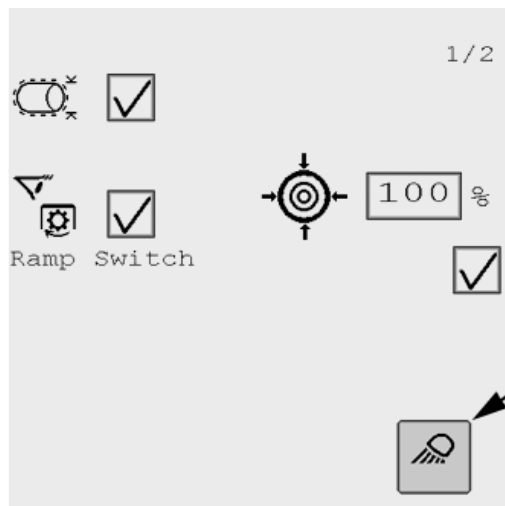
CC277966

TL81334,0000057 -19-09AUG17-4/7

2. Select Side Door Lights softkey to active or deactivate the side door lights.

Softkey background is yellow when the side door lights are activated or grey when side door lights are deactivated.

A—Side Door Lights Softkey



CC321732

CC321732 —19-04JUL17

TL81334,0000057 -19-09AUG17-5/7

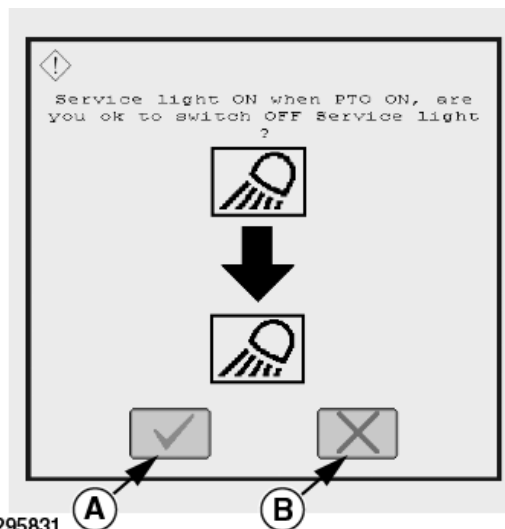
3. If the operator engages the PTO whereas side door lights are ON, a message is displayed to ask if side door lights should be switched OFF.

Select Accept icon to switch OFF side door lights or Cancel icon to keep side door lights ON.

NOTE: The user cannot activate side door lights when PTO is ON.

A—Accept Icon

B—Cancel Icon



CC295831

CC295831 —19-21DEC16

Continued on next page

TL81334,0000057 -19-09AUG17-6/7

4. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

TL81334,0000057 -19-09AUG17-7/7

Video Application

PC15312 —UN—15MAY13

The video application is used to observe areas around the machine that are difficult to see from the operator's station. See your tractor Operator's Manual.

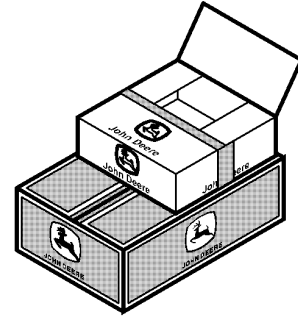


DC82261,0000647 -19-15SEP15-1/1

Attachments

Find Attachments

See your John Deere dealer or the John Deere online attachment website to check the attachments suitable for your machine.



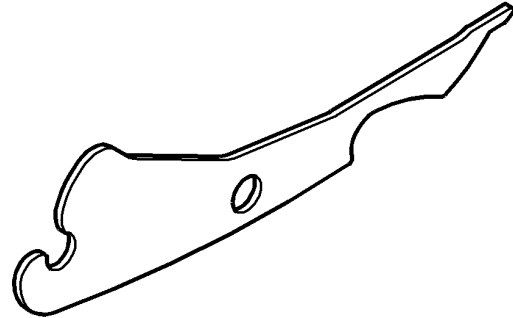
CC208612

CC208612 —JUN—14APR14

DC82261,0000447 -19-18OCT14-1/1

Knife Slot Filler Kit

To prevent the crop from entering into the knife spring mechanism when baling without knives for a long period of time, a set of knife slot fillers is available as attachment.



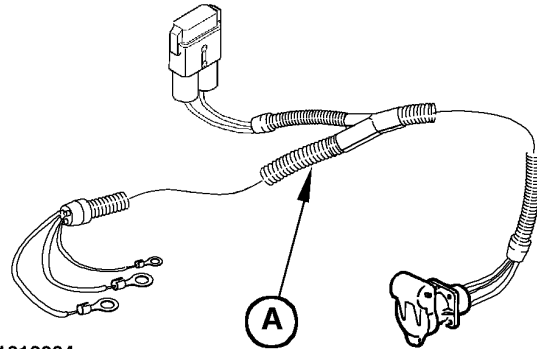
CC1033018

CC1033018 —JUN—02JUL10

OUCC006,000169C -19-02JUL10-1/1

Battery Harness for Monitor

Whenever necessary, a battery harness (A) is available as an attachment to be installed on tractors not being equipped with any convenience outlet.



CC1018634

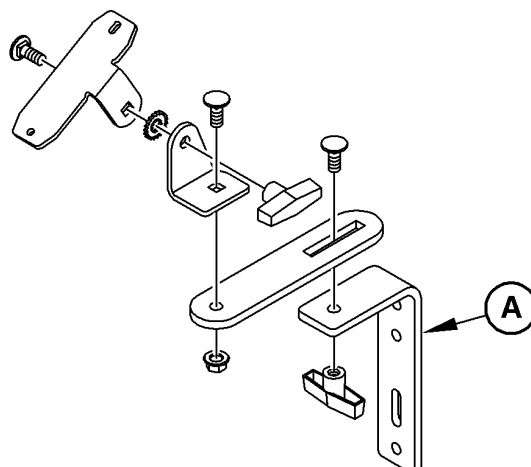
CC1018634 —JUN—24OCT00

OUCC006,00014A0 -19-07OCT08-1/1

Monitor Support

Depending on the tractor cab, different monitor supports can be obtained from your John Deere dealer.

A—Angle



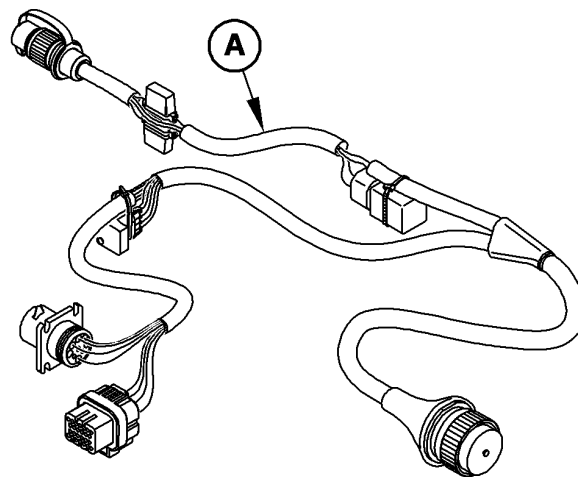
CC1031046

CC1031046—UN—28OCT08

OUCC006,0001B47 -19-28OCT13-1/1

Cab Wiring Harness for Monitor

A cab wiring harness (A) for virtual terminal (display) is available from your John Deere dealer.



CC1034494

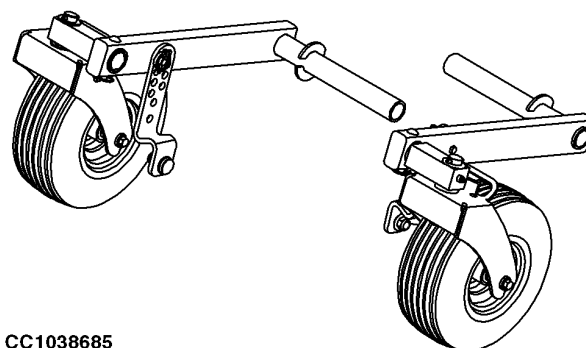
CC1034494—UN—06JUL11

OUCC006,00017E7 -19-27JUN11-1/1

Caster Gauge Wheels

Caster gauge wheels allow the pickup to follow the ground contour more easily and avoid sideslip and soil damage.

Contact your John Deere dealer.



CC1038685

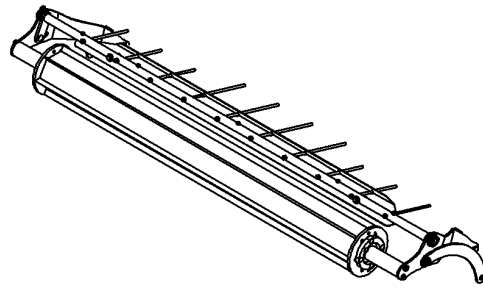
CC1038685—UN—19NOV12

OUCC006,00019CA -19-19NOV12-1/1

Pickup Roll Compressor

Pickup roll compressor is available as an attachment to improve the feeding flow.

Contact your John Deere dealer.



CC286973

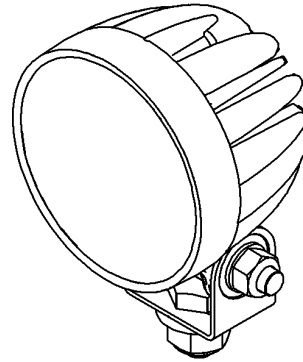
CC286973 —UN—03AUG16

NB02380,00001BB -19-28JUL16-1/1

Net Binding Device Light and Side Door Lights

Lights for net binding device and side doors are available as an attachment to improve the vision while working at night.

Contact your John Deere dealer.



CC286974

CC286974 —UN—03AUG16

CC03745,000123A -19-09AUG17-1/1

Lubrication and Maintenance

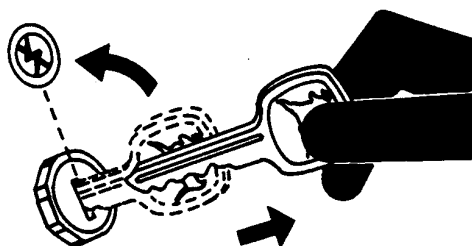
Lubricating and Maintaining Machine Safely

CAUTION: To help prevent personal injury caused by unexpected movement, be sure to service machine on a level surface.

Do not lubricate or maintain the machine while it is in motion.

If machine is connected to tractor, engage tractor parking brake and/or place transmission in "Park", shut off engine and remove key.

If machine is detached from tractor, block wheels to prevent movement.



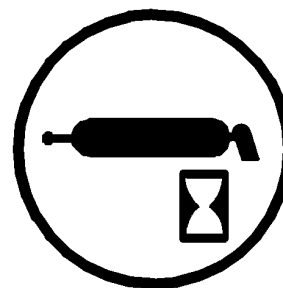
CC03745,00002A8 -19-27AUG01-1/1

T5230 —UN—24MAY89

Observe Service Intervals

Using tractor hour meter as a guide, perform services at the hourly intervals indicated on following pages.

IMPORTANT: Recommended service intervals are for average conditions. Service **MORE OFTEN** if baler is operated in adverse conditions.



CC 000934

CC03745,00002A9 -19-27AUG01-1/1

CC000934 —UN—05APR95

Perform Lubrication and Maintenance

Clean lubrication fittings before using grease gun. Replace any lost or broken fittings immediately. If a new fitting fails to take grease, remove and check for failure of adjoining parts.

Carefully perform lubrication and maintenance at hour intervals provided in this section to ensure optimum performance and avoid premature failure.

Bearing failures or overheating can result in a fire. To reduce bearing failures or overheating, thoroughly lubricate all greasing points of the machine:

- After each time the machine is washed.
- When placing the machine in storage.
- Just before using the machine after it has been stored.

Regularly check that grease is coming out of bearings while greasing them.

Crop material and other debris may accumulate around bearings and bearing covers. Inspect and clean these areas periodically throughout the working day.

DC82261,0000538 -19-18OCT14-1/1

Multipurpose Extreme Pressure (EP) Grease

IMPORTANT: For automated lubrication systems different ambient air temperatures need to be considered.

Use grease based on NLGI consistency numbers and the expected air temperature range during the service interval.

John Deere SD Polyurea Grease is preferred.

The following greases are also recommended:

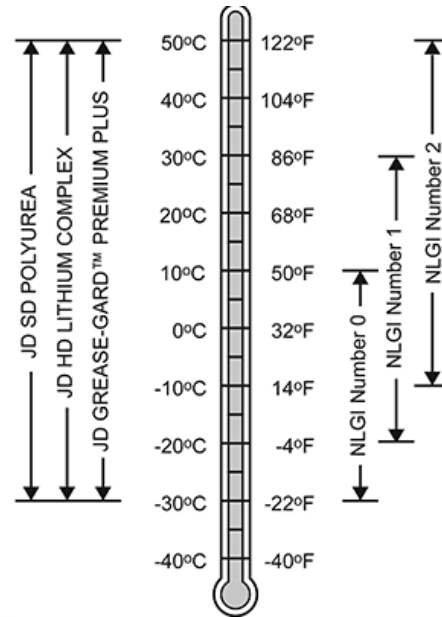
- John Deere HD Lithium Complex Grease
- John Deere Grease-Gard™ Premium Plus

Other greases may be used if they meet the following:

- NLGI Performance Classification GC-LB
- ISO-L-X-BDHB 2 or DIN KP 2 N-10 Lithium Complex, Non-Synthetic Base Oil (100 to 220 mm²/s @ 40°C)

IMPORTANT: Some types of thickeners, base oils, and additives used in greases are not compatible with others. Mixing greases should be avoided. Consult your grease supplier before mixing different types of grease.

Grease-Gard is a trademark of Deere & Company



Greases for Air Temperature Ranges

RG30199—UN—08MAR18

DX,GRE1 -19-13JAN18-1/1

Gear Oil

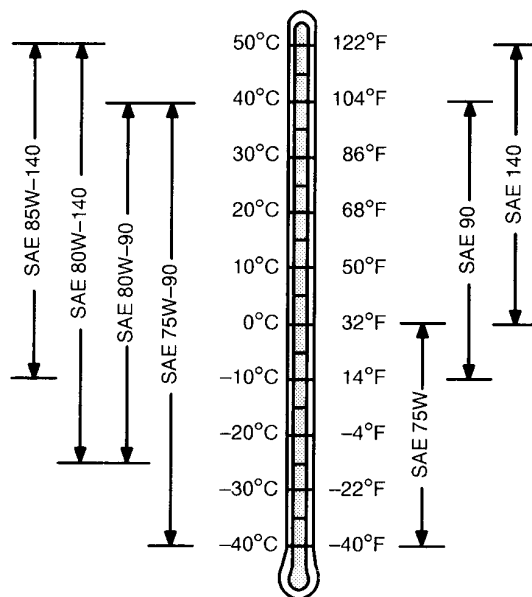
Use oil viscosity based on the expected air temperature range during the period between oil changes.

The following oils are preferred:

- John Deere GL-5 Gear Lubricant
- John Deere EXTREME-GARD™

Other oils may be used if they meet the following:

- API Service Category GL-5



Oil Viscosities for Air Temperature Ranges

EXTREME-GARD is a trademark of Deere & Company

DX,GEOIL -19-14APR11-1/1

TS1653—UN—14MAR96

Grease for Automatic Greasing System

IMPORTANT: Grease lubricants containing solid lubricants must not be used. Moly grease will plug the distributors and should not be used (Lubricants like graphite or MoS2 on request).

The system is designed for commercially available multi-purpose grease lubricants up to NLGI Class 2 for use in summer and wintertime.

Use greases with high-pressure additives (EP greases).

Use only greases of same kind of saponification.

For specification see "Grease" in this section.

OUCC006,000147E -19-17SEP08-1/1

Multiluber Chain Oil

Use the following oil for the multiluber chain oiling system:

John Deere BIO-MULTILUBER-OIL¹

Other equivalent biodegradable oils may also be used.

IMPORTANT: Never use mineral oil for this application.

NOTE: John Deere BIO-MULTILUBER-OIL is available at the John Deere dealer.

- DC43300: BIO-MULTILUBER-OIL 5 liters

¹ John Deere BIO-MULTILUBER-OIL meets or exceeds minimum biodegradability of 80% within 21 days according to CEC-L-33-T-82 test method. BIO-MULTILUBER-OIL must not be mixed with mineral oil.

OUCC006,00019AE -19-09NOV12-1/1

Alternative and Synthetic Lubricants

Conditions in certain geographical areas may require lubricant recommendations different from those printed in this manual.

Some John Deere brand coolants and lubricants may not be available in your location.

Consult your John Deere dealer to obtain information and recommendations.

Synthetic lubricants may be used if they meet the performance requirements as shown in this manual.

The temperature limits and service intervals shown in this manual apply to John Deere branded fluids or fluids that have been tested and/or approved for use in John Deere equipment.

Re-refined base stock products may be used if the finished lubricant meets the performance requirements.

DX,ALTER -19-13JAN18-1/1

Lubricant Storage

Your equipment can operate at top efficiency only when clean lubricants are used.

Use clean containers to handle all lubricants.

Store lubricants and containers in an area protected from dust, moisture, and other contamination. Store containers on their side to avoid water and dirt accumulation.

Make certain that all containers are properly marked to identify their contents.

Properly dispose of all old containers and any residual lubricant they may contain.

DX,LUBST -19-11APR11-1/1

Mixing of Lubricants

In general, avoid mixing different brands or types of oil. Oil manufacturers blend additives in their oils to meet certain specifications and performance requirements.

Mixing different oils can interfere with the proper functioning of these additives and degrade lubricant performance.

Consult your John Deere dealer to obtain specific information and recommendations.

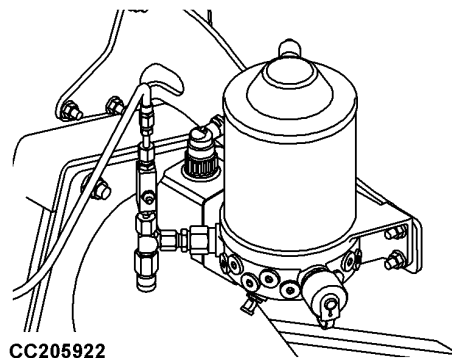
DX,LUBMIX -19-18MAR96-1/1

Automatic Greasing System General Information (If Equipped with Reservoir-Type Pump)

IMPORTANT: Depending on the machine equipment, several greasing points may not be connected to the automatic greasing system. See this section to know which greasing points are connected or not to the automatic greasing system.

Automatic Greasing Function

The system consists of a grease pump driven by an electric motor, greasing lines, grease distributors and an electronic timer controlled from the monitor. Once the system is enabled, the grease pump turns at regular ON and OFF intervals according to the operator settings. To enable, disable or adjust the automatic greasing system, see Set Automatic Greasing System (If Equipped with Reservoir-Type Pump) in Baler Application Service section.



CC205922 —UN—25OCT13

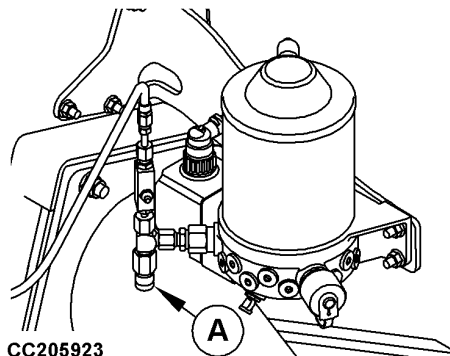
Continued on next page

NB02380,00001F1 -19-28NOV16-1/2

Checking System for Proper Operation

Manually initiate an automatic greasing cycle with the monitor during 6 to 9 minutes to determine whether grease is supplied to all greasing points. See [Set Automatic Greasing System \(If Equipped with Reservoir-Type Pump\)](#) in Baler Application Service section to manually activate automatic greasing system.

If blockage occurs at a lube fitting or in a lube line, grease escapes from relief valve (A). This valve is a safety feature which allows system checks. See [Automatic Greasing System \(If Equipped with Reservoir-Type Pump\)](#) in Troubleshooting section.



A—Relief Valve

Intermediate Greasing

Manually initiate automatic greasing cycle with monitor:

- During 3 minutes at the start of each harvesting season.
- During 9 minutes after cleaning with a high-pressure washer, steam cleaning or cleaning with compressed air.
- During 15 minutes at the end of the season.

Service

NOTE: All greasing system components are maintenance-free.

During the first few weeks of operation, periodically check the system and following points:

- Sufficient grease at bearing points.
- Broken or leaking lines.

NB02380,00001F1 -19-28NOV16-2/2

Automatic Greasing System General Information (If Equipped with Cartridge-Type Pump)

Automatic greasing function

The system provides a grease pump driven by hydraulic pressure, greasing lines and grease distributors. Each time the rear gate is opened and closed, a piston inside the pump is actuated by hydraulic pressure and an adjustable quantity of grease is delivered.

IMPORTANT: Depending on the machine equipment, some greasing points are not connected to the automatic greasing system. See this section to know which greasing points are connected or not to the automatic greasing system.

Service

NOTE: All system components are maintenance-free.
If blockage occurs at a grease nipple or in a greasing line, see [Automatic Greasing System \(If Equipped with Cartridge-Type Pump\)](#) in Troubleshooting section.



During the first few weeks of operation, periodically check the system and following points:

- Sufficient grease at bearing points.
- Broken or leaking lines.

OUC006,0001AE6 -19-22OCT13-1/1

Adjust Automatic Greasing System Flow Rate (If Equipped with Cartridge-Type Pump)

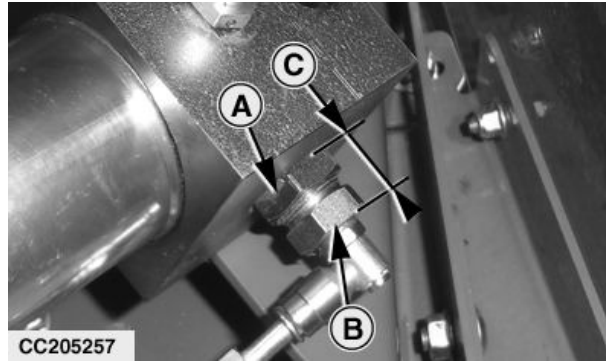
The grease pump flow rate can be set progressively by modifying distance (C) using adjusting screw (B). To adjust flow rate, proceed as follows:

1. Unscrew lock nut (A).
2. Adjust screw (B) to obtain the desired distance (C).

Specification

Flow Rate, Factory	
Adjustment—Distance.....	17 mm (0.67 in.)
Flow Rate, Minimum	
Adjustment—Distance.....	15 mm (0.59 in.)
Flow Rate, Maximum	
Adjustment—Distance.....	24 mm (0.94 in.)

3. Tighten lock nut (A).

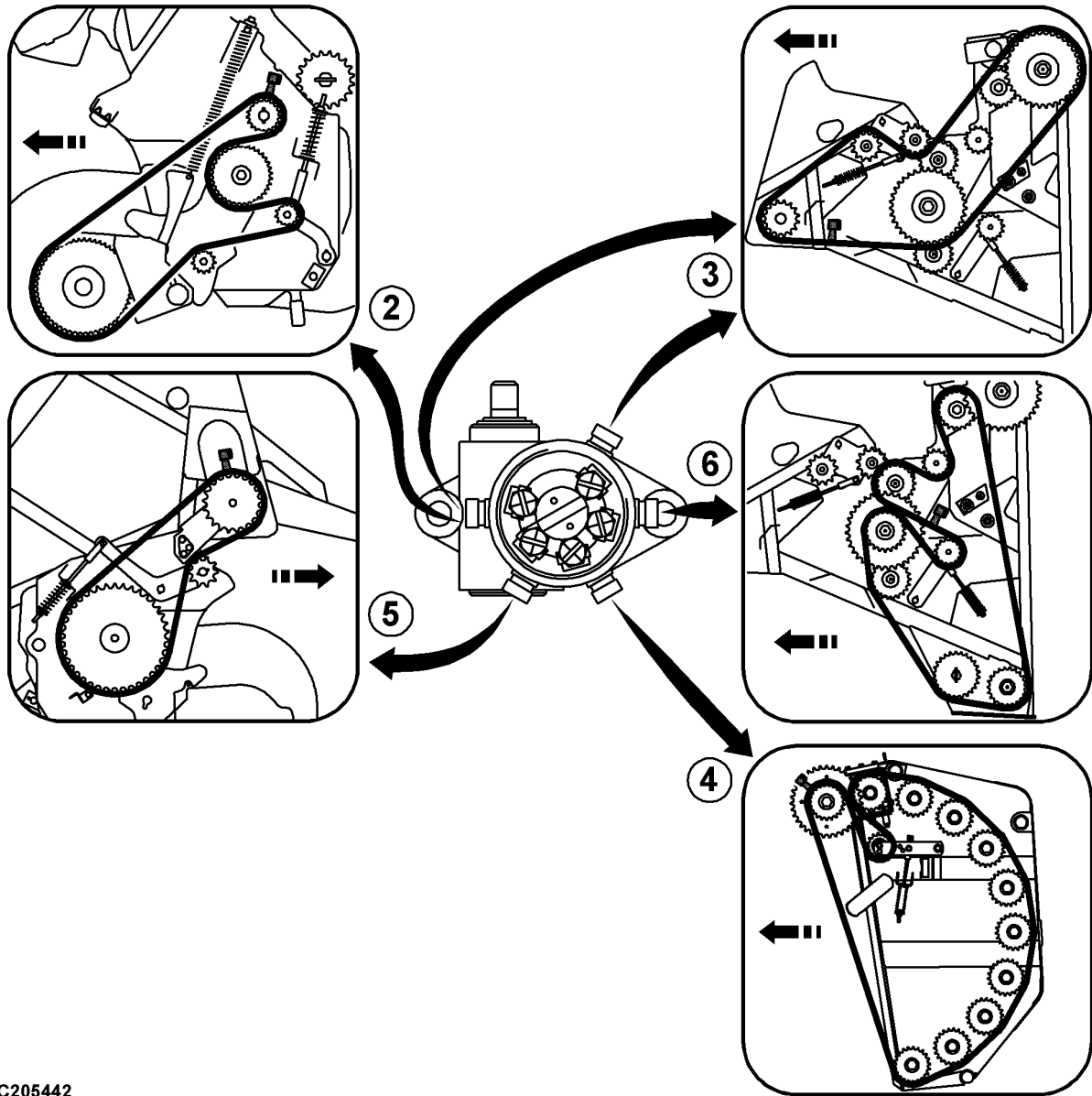


A—Lock Nut
B—Flow Rate Adjusting Screw
C—Distance

CC205257 —UN—25OCT13

OUCC006,0001AE7 -19-31OCT13-1/1

Chain Oiling Component Location



CC205442

- 2— Pickup Drive Chain (Red Ring) 4— Gate Roll Drive Chain (Yellow Ring) 6— Frame Roll Drive Chain (Blue Ring)
 3— Main Drive Chain (Orange Ring) 5— Rotary Feeder Drive Chain (Green Ring) 7— Frame Roll Drive Chain (Blue Ring)

NOTE: Each hose is identified to pump and brush side with a number on a color ring.

NB02380,00001BE -19-03AUG16-1/1

CC205442 —UN—21OCT13

Adjust Oil Flow

The oil flow can be adjusted for each chain.

1. Unscrew and remove cover (A).
2. Identify the screw allowing the oil flow of the relevant brush(es) to be adjusted.
3. Turn the screw clockwise to increase oil flow and counterclockwise to decrease oil flow.

NOTE: The pump is very precise. Turn screw 1/4 turn by 1/4 turn to adjust oil flow.

When the screw is totally screwed in (maximum flow), the minimum flow will be obtained by unscrewing four turns.

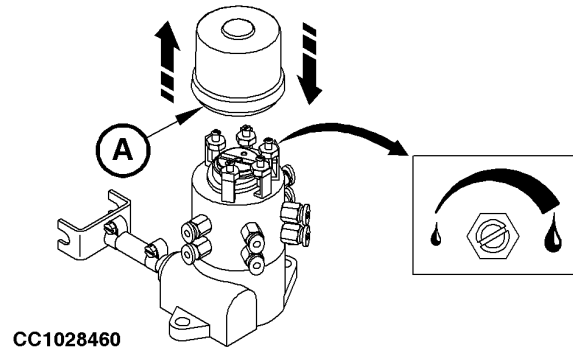
To apply initial factory settings, proceed as follows:

Fully screw in the relevant screw.

For screw of brush 2, unscrew 19 clicks (3 turns).

For screw of brush 3, unscrew 10 clicks (1.7 turns).

For screw of brush 4, unscrew 13 clicks (2.2 turns).



CC1028460

A—Pump Cover

For screw of brush 5, unscrew 16 clicks (2.7 turns).

For screw of brush 6, unscrew 5 clicks (0.8 turns).

4. Install cover (A).

NB02380,0000497 -19-12JUL17-1/1

CC1028460—UN—21SEP06

As Required - Refill Multiluber Chain Oiling System Reservoir

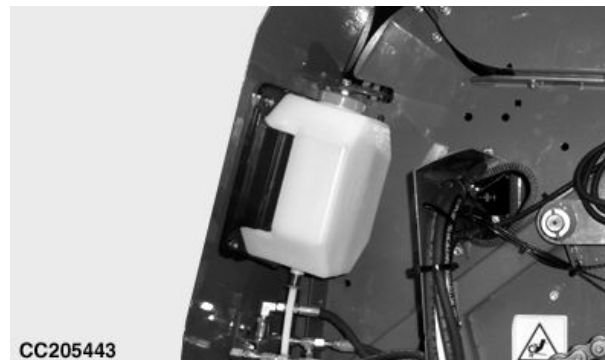
Depending on the pump flow adjustment, refill reservoir as required.

Specification

Oil Reservoir—Capacity..... 4 l
(1 US gal.)

Use oil specified under [Multiluber Chain Oil](#) in this section.

IMPORTANT: Never use any other type of oil.



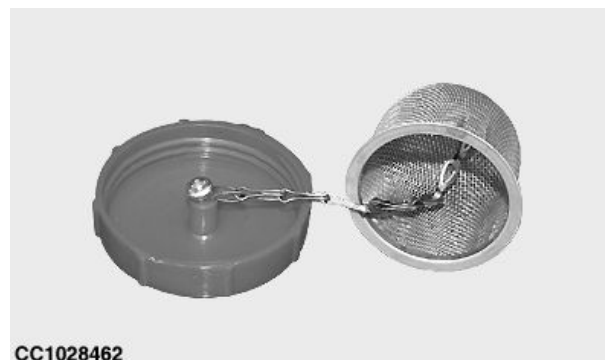
CC205443

OUC006,0001AF4 -19-16SEP13-1/1

CC205443—UN—10OCT13

As Required - Clean Oil Reservoir Filter

Clean oil reservoir filter as necessary.



CC1028462

CC03745,0000F2B -19-19FEB08-1/1

CC1028462—UN—21SEP06

As Required - Clean Hydraulic Coupler Filters

Clean coupler filter as follows:

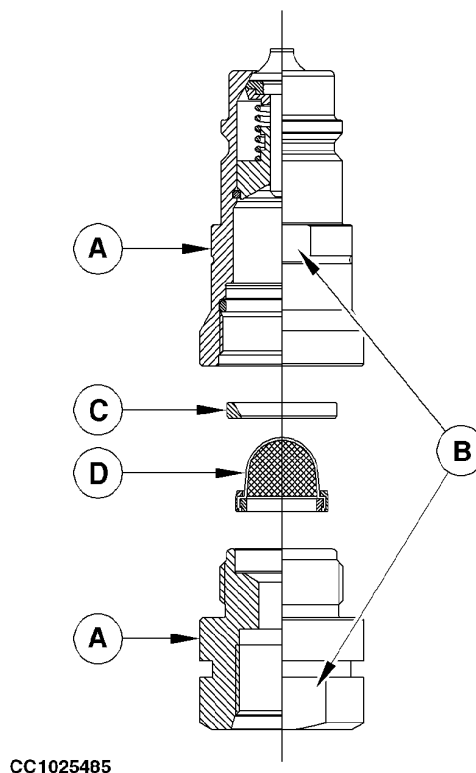
1. Disassemble coupler (A) using flat surfaces (B).
2. Remove spacer ring (C) and filter (D).
3. Clean filter (D), using clean solvent.
4. Assemble coupler (A) in reverse order of disassembly.
5. Tighten coupler (A) to the following specification:

Specification

Pressure Line
Coupler—Torque.....90 N·m
(66 lb.-ft.)

A—Coupler
B—Flat Surface

C—Spacer Ring
D—Filter



CC1025485

JC87117,00001A4 -19-21OCT14-1/1

CC1025485 —UN—15MAR04

As Required - Refill Automatic Greasing System Reservoir (If Equipped with Reservoir-Type Pump)

IMPORTANT: Cleanliness is a must when filling the system.

Depending on the automatic greasing system settings, refill reservoir as required.

Specification

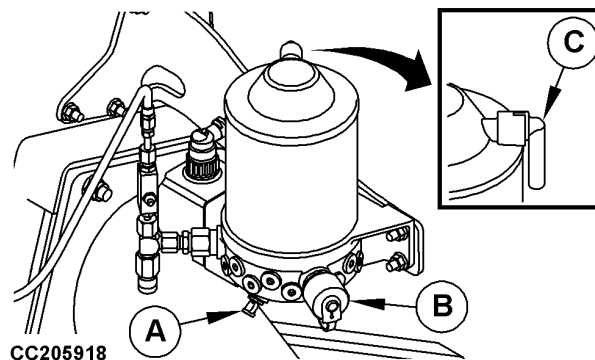
Greasing
Reservoir—Capacity.....1.2 kg
(2.6 lb.)

Fill the system with grease at filling nipple (A) by using a grease pump or at orifice (B) by using a high-flow filling press. See your John Deere dealer for more information on the high-flow filling press device.

Make sure that vent tube (C) on the outside of the reservoir is not plugged.

Do not fill the reservoir beyond the maximum fullness level.

Use grease specified under Grease for Automatic Greasing System in this section.



CC205918

A—Filling Nipple
B—Filling Orifice

C—Vent Tube

IMPORTANT: Never use any other type of grease.

OUCC006,0001AE8 -19-24OCT13-1/1

CC205918 —UN—25OCT13

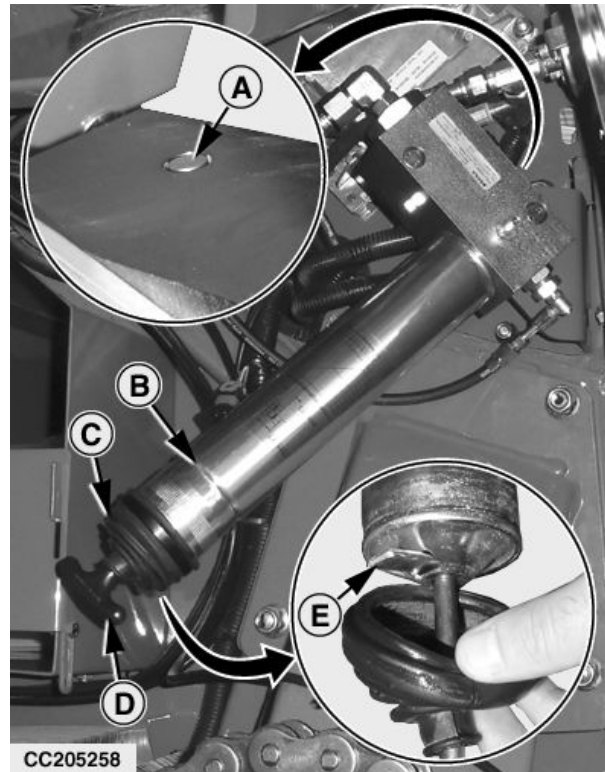
As Required - Replace Automatic Greasing System Cartridge (If Equipped with Cartridge-Type Pump)

Grease cartridge replacement

On the top of the grease pump, indicator (A) extends to indicate that the grease cartridge is empty. To replace the grease cartridge, proceed as follows:

1. Pull handle (D) fully downward.
2. Unscrew tube (B).
3. Replace empty grease cartridge by a new one.
4. Reinstall and tighten tube (B).
5. Press lock (E) located below rubber boot (C), then fully push up handle (D).
6. Bleed the grease pump. See [Bleed Automatic Greasing System \(If Equipped with Cartridge-Type Pump\)](#) in Service section.

A—Empty Cartridge Indicator
B—Grease Cartridge Tube
C—Rubber Boot
D—Handle of Follower Piston
E—Lock of Follower Piston Rod



CC205258 —UN—18OCT13

OUCC006,0001AE9 -19-18OCT13-1/1

Daily - Fire Prevention

Use compressed air to remove buildup of crop material and to keep the machine clean.

Avoid high-pressure power-washing next to the bearings to prevent damaging seals.

Check bearings for early signs of damage, and replace as indicated. Turn off power to baler and check for unusual noises, hot parts, smells of scorching, and discolored paint or metal.

Check condition of bearings:

- Open gate and lock it.
- With the belts slackened, rotate each of the rollers by hand, paying attention to dry, noises, or rough rotation.

- Push, pull, or gently pry to check bearing radial play.
- Watch and feel for looseness in the bearings. Replace worn or damaged bearings. Just after operation, check the temperature of each bearing, if one or some are hotter than the others replace the bearings.

Check condition of pressurized water tank:

- Check the pressure of the pressurized water tank by using the indicator. The pressure will vary slightly due to temperature but should always be within green area.
- Check that the pressurized water tank is fully charged. Weigh or heft the pressurized water tank to determine fullness. See [Charge Pressurized Water Tank](#) in Service section.

DC82261,00004E1 -19-05AUG14-1/1

Daily: Precutter Knives and Drop Floor

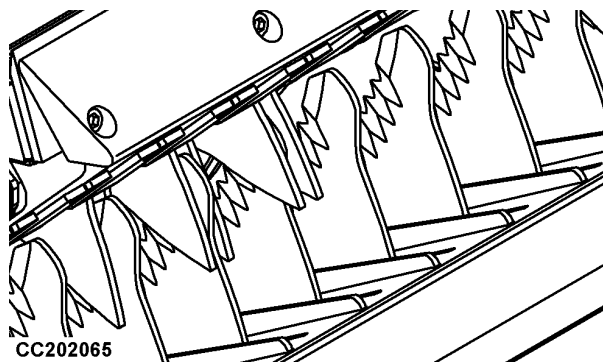
CAUTION: Be careful when working around the knives. Knives are sharp and can cause serious injury.

Check Precutter Knives:

1. Open the gate.
2. Engage tractor park brake or place transmission in PARK, shut off tractor engine and remove key.
3. Secure the gate with the safety lock device.

Keep each precutter knife very sharp. Knives must be checked daily or each 200 bales, whichever comes first.

To remove the knives, see [Replace Precutter Knives](#) in Service section and to sharpen knives, see [Sharpen Precutter Knives](#) in Service section.



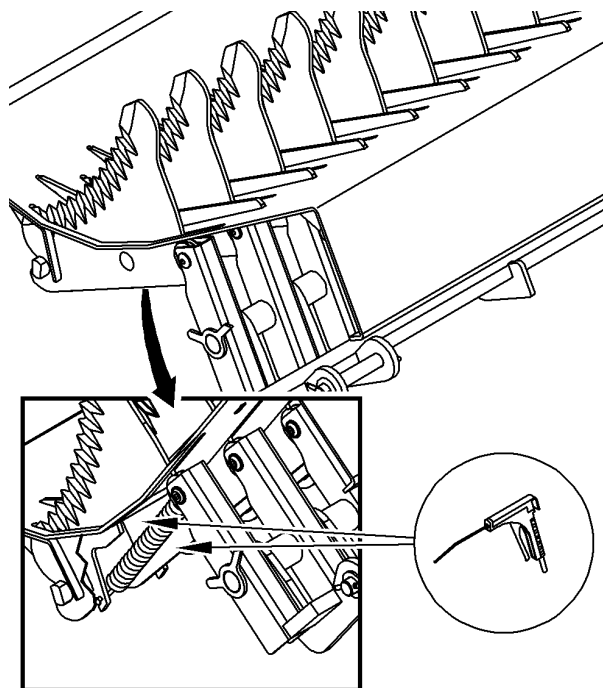
CC202065 —UN—12APR13

NB02380,00001EF -19-02DEC16-1/2

Clean Drop Floor:

1. Lower the drop floor. See [Unplug Pickup](#) in Operating Baler Application section.
2. Engage and retract knives several times. See [Retract or Engage Precutter Knives](#) in Operating Baler Application section.
3. Engage tractor park brake or place transmission in PARK, shut off tractor engine and remove key.
4. Close the knife shut-off valve(s).
5. Remove material with an air gun or any suitable tool.

NOTE: Material is easier to remove when knives are engaged.



CC202066

CC202066 —UN—12APR13

NB02380,00001EF -19-02DEC16-2/2

After the First 10 Hours - Wheel Nut Torque

Check wheel nut torque after the first 10 hours of use. See [Check Wheel Nut Torque](#) in Preparing the Baler section.

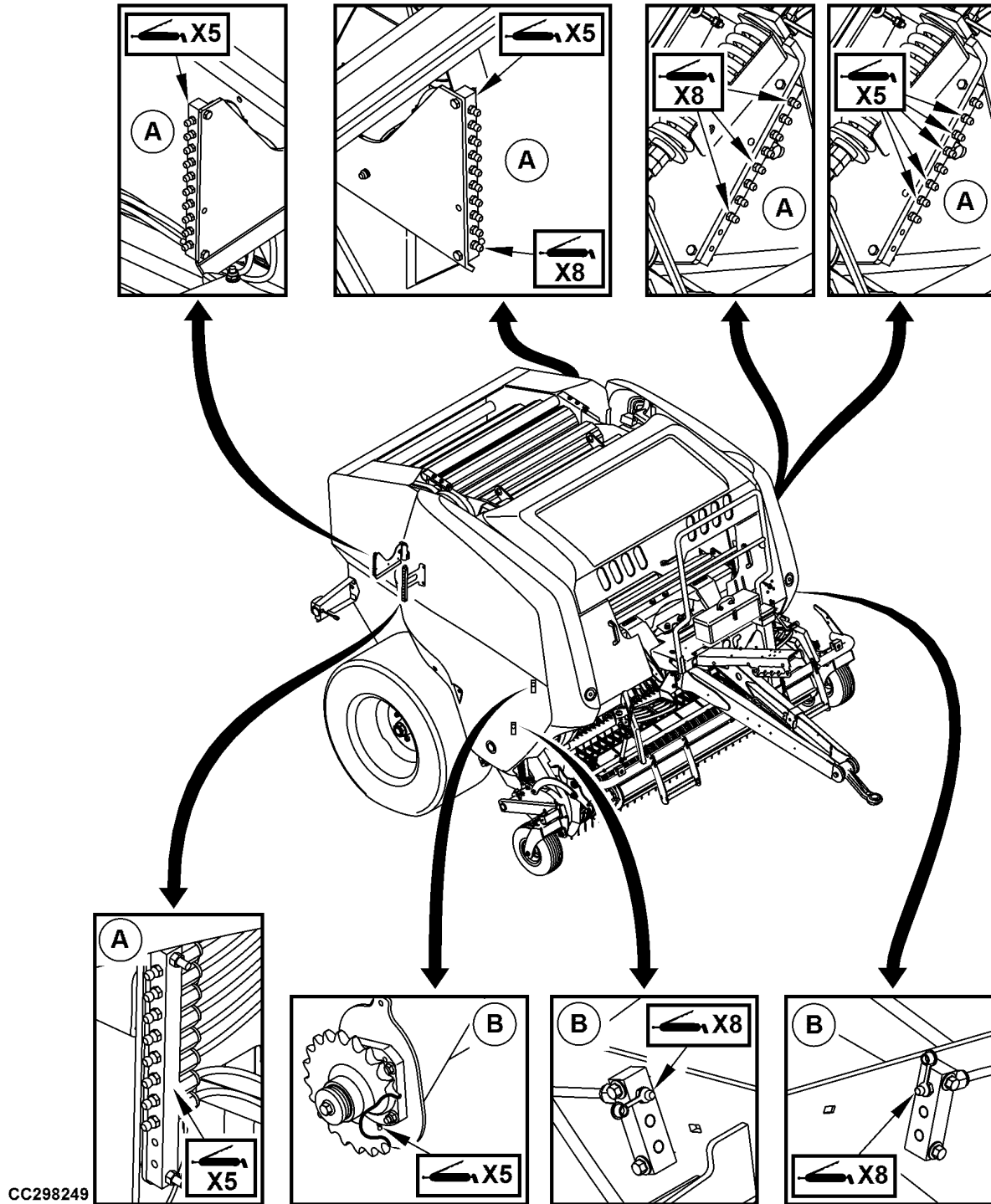
IMPORTANT: Repeat the procedure each time a wheel has been removed and installed.



CC200789 —UN—12APR13

OUCC006,0001A5F -19-26MAR13-1/1

Every 10 Hours: Rolls and Rotary Feeder (Baler without Automatic Greasing System)



A—Rolls

B—Rotary Feeder

Lubricate with John Deere Grease-Gard™.

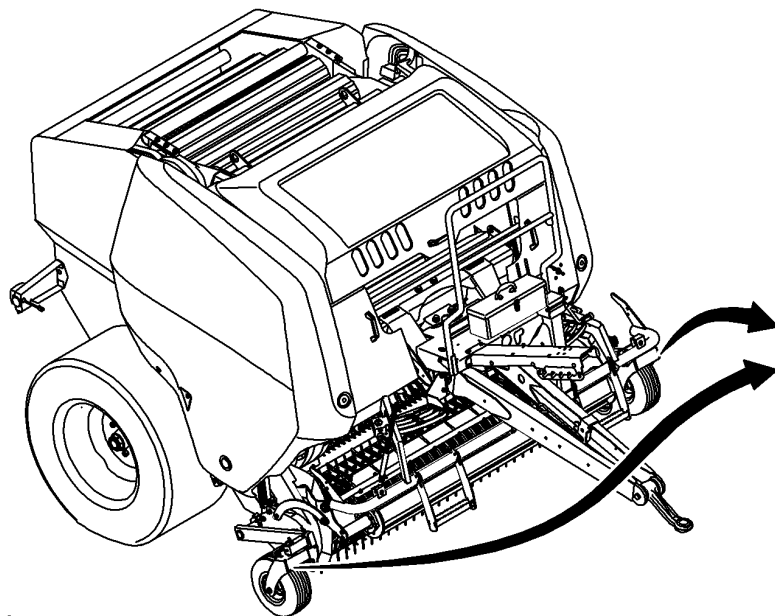
IMPORTANT: Lubricate all roll grease nipples after each working day while bearings are still warm.

Grease-Gard is a trademark of Deere & Company

NB02380,0000188 -19-28NOV16-1/1

CC298249 —UN—27OCT16

Every 10 Hours: Pickup Caster Gauge Wheels (If Equipped)



CC283556

Lubricate with John Deere Grease-Gard™.

CC283556 —UN—07OCT16

NB02380,0000189 -19-04NOV16-1/1

After the First 50 Hours - Wheel Nut Torque

Check wheel nut torque after the first 50 hours of use. See [Check Wheel Nut Torque](#) in Preparing the Baler section.

IMPORTANT: Repeat the procedure each time a wheel has been removed and installed.



CC202789

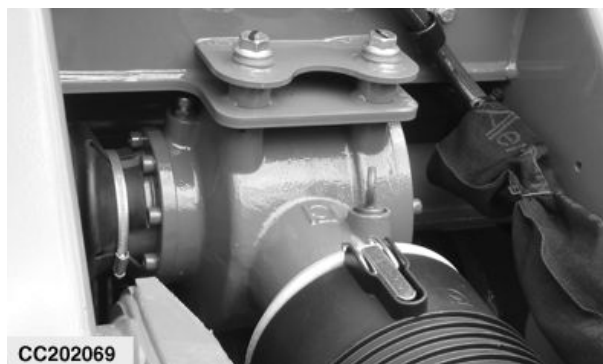
CC202789 —UN—12APR13

OUC006,0001A60 -19-26MAR13-1/1

After the First 50 Hours - Gear Case

Change the oil in the gear case after the first 50 hours of operation. See Every 500 Hours or Yearly - Drain and Refill Gear Case in this section.

NOTE: Front shield removed for illustration purposes.



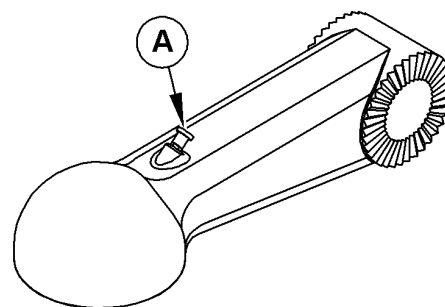
CC202069 —UN—12APR13

OUCC006,0001A6B -19-11APR13-1/1

Every 50 Hours - Ball Type Hitch (If Equipped)

Lubricate with John Deere Grease-Gard™.

A—Grease Fitting

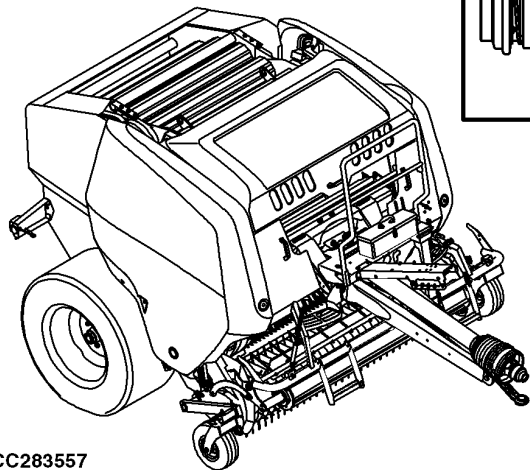


CC205925

CC205925 —UN—29OCT13

DC82261,00003A8 -19-28OCT13-1/1

Every 50 Hours: Telescoping Driveline



CC283557

A—Grease Fitting

Lubricate with John Deere Grease-Gard™.

Grease-Gard is a trademark of Deere & Company

Refer to the basic telescoping driveline Operator's Manual to lubricate telescoping driveline correctly.

NB02380,000018A -19-28NOV16-1/1

CC283557 —UN—18JUL16

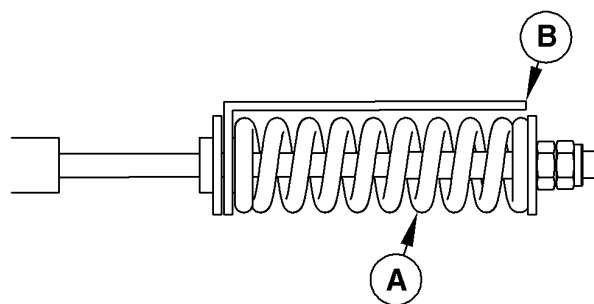
Every 50 Hours: Check Chain Tension

Check for all tensioner that length of spring (A) and strap (B) are the same.

If necessary, see Service section to adjust chain.

A—Spring

B—Strap



CC286971

NB02380,00001B2 -19-04NOV16-1/1

CC286971 —UN—01SEP16

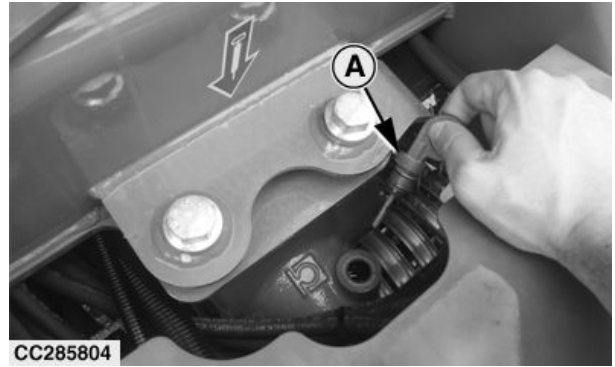
Weekly: Gear Case Oil Level

IMPORTANT: Check level of lubricant weekly using dipstick (A) and refill as necessary.

Do not overfill gear case as this will result in overheating and oil leakage.

Use a type of oil specified under Gear Oil in this section.

A—Dipstick



CC285804 —UN—18JUL16

NB02380,0000171 -19-04NOV16-1/1

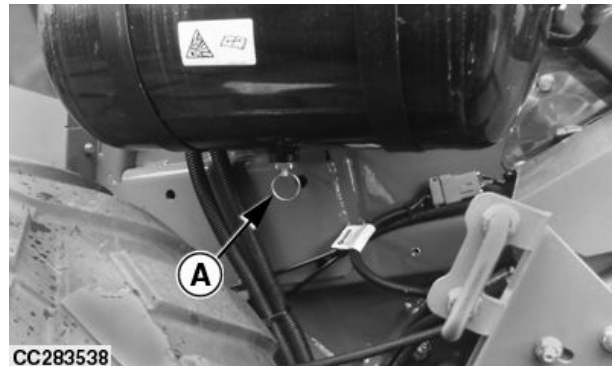
Weekly: Check and Drain Air Brake Tank

CAUTION: Before draining condensed water from the compressed air tank, make sure that the machine is secured against rolling away. Engage the park brake and place wheel chocks under the wheels.

Pull ring (A) to drain water from the air tank.

Condensation in brake system may cause malfunctions.

A—Ring



CC283538 —UN—18JUL16

NB02380,0000172 -19-04NOV16-1/1

Every 100 Hours or Yearly: Check Wheel Nut Torque

Check wheel nut torque after 100 hours of use or yearly. See Check Wheel Nut Torque in Preparing the Baler section.

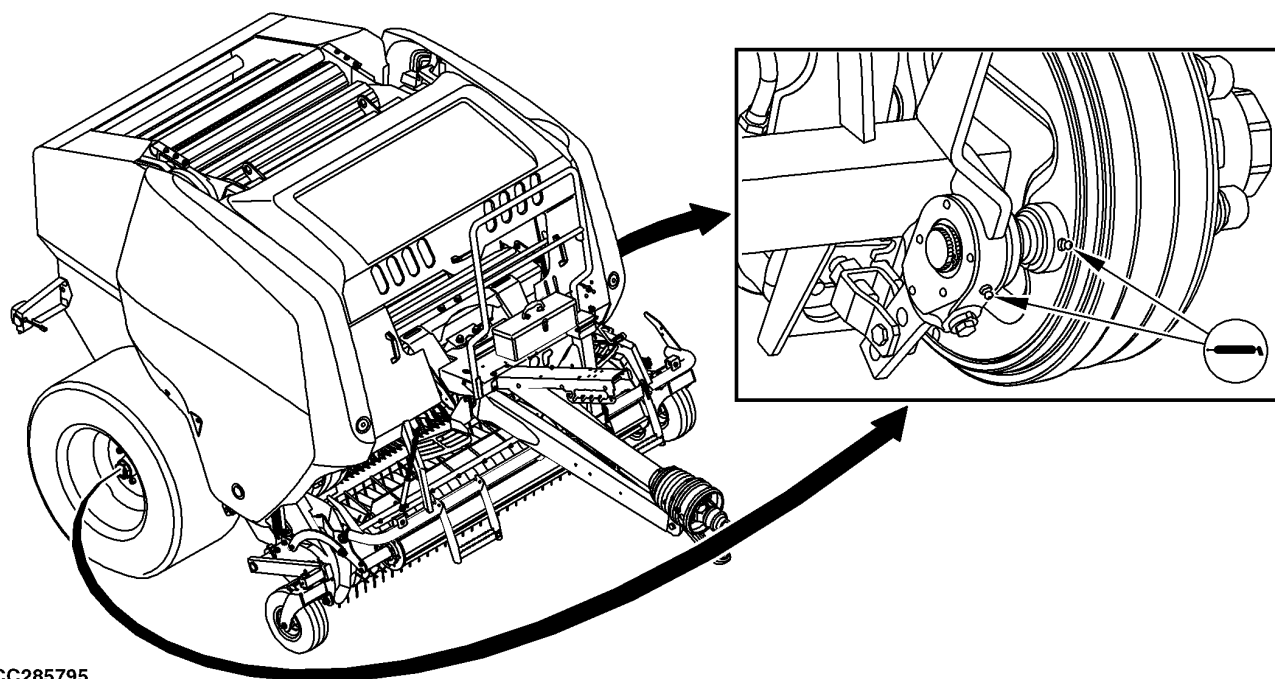
IMPORTANT: Repeat the procedure each time a wheel has been removed and installed.



CC200789 —UN—12APR13

NB02380,0000490 -19-13JUL17-1/1

Every 100 Hours or Yearly: Air Brake Shafts

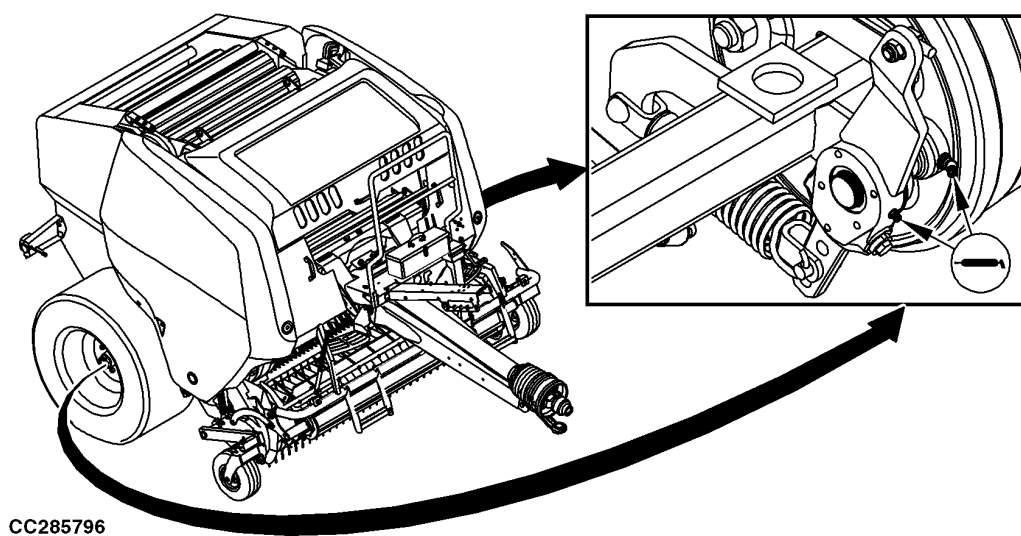


Lubricate with John Deere Grease-Gard™ on both sides.

NB02380,0000491 -19-12JUL17-1/1

CC285795 —UN—01SEP16

Every 100 Hours or Yearly: Hydraulic Brake Shafts



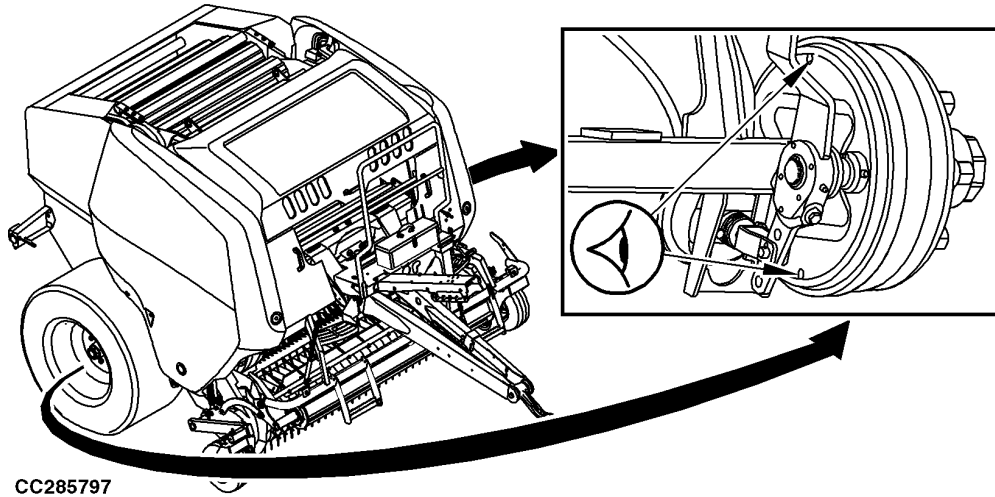
Lubricate with John Deere Grease-Gard™ on both sides.

Grease-Gard is a trademark of Deere & Company

NB02380,0000492 -19-12JUL17-1/1

CC285796 —UN—07OCT16

Every 100 Hours or Yearly: Air Brake Shoes



CC285797

On both sides, check that thickness of brake linings is greater than the following specification:

Specification

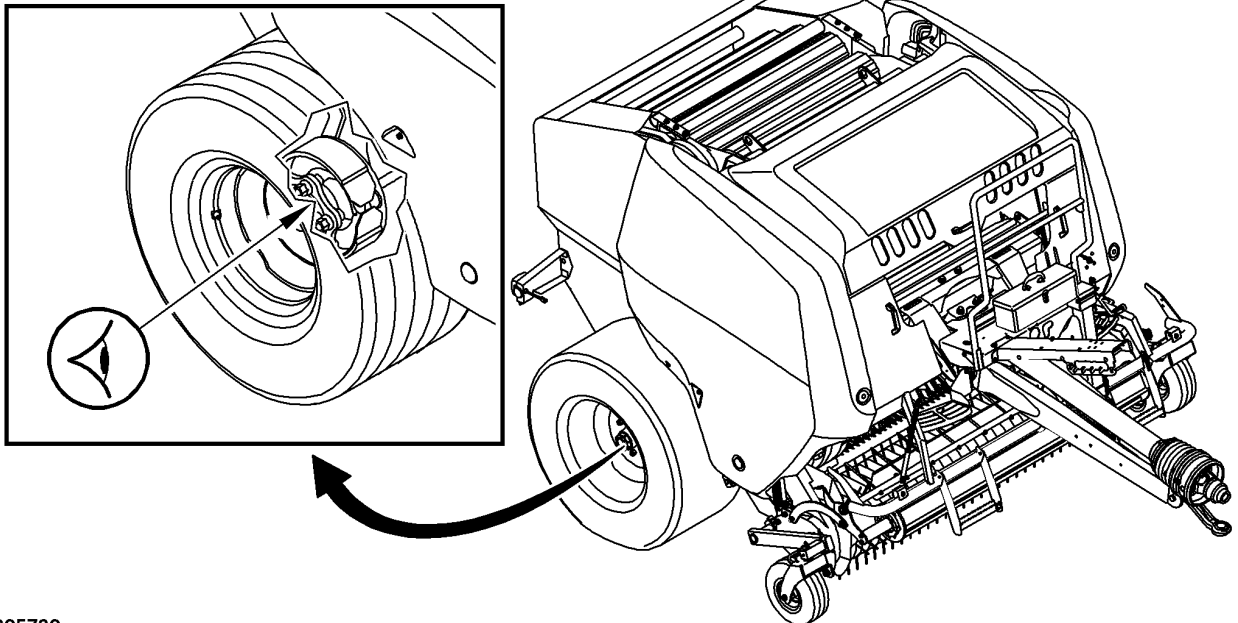
Brake Lining—Minimum
Thickness..... 2 mm
(0.08 in)

If not, see your John Deere dealer for brake shoe replacement.

NB02380,0000493 -19-12JUL17-1/1

CC285797 —UN—04OCT16

Every 100 Hours or Yearly: Hydraulic Brake Shoes



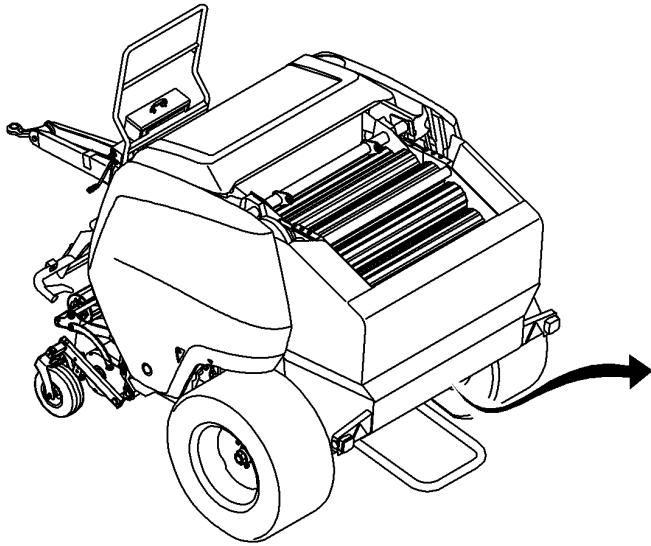
CC285798

To check brake lining thickness, see your John Deere dealer.

NB02380,0000494 -19-12JUL17-1/1

CC285798 —UN—01SEP16

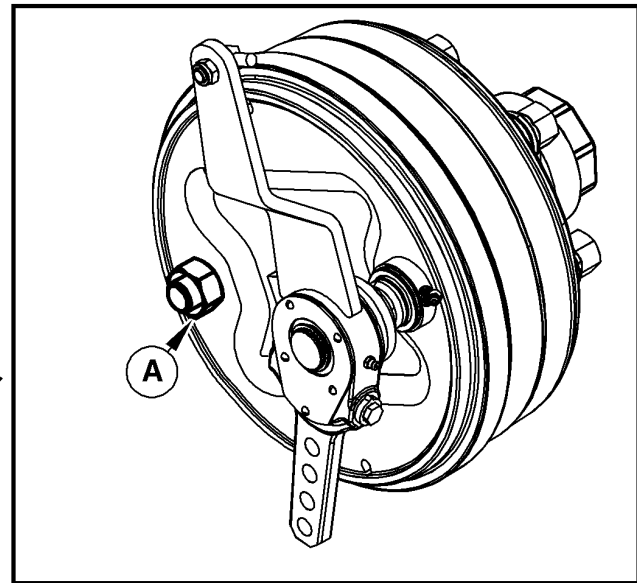
Every 100 Hours or Yearly: Brake Pivot



CC286972

A—Brake Pivot

Engage baler park brake, retighten nut of brake pivot on both sides to specified torque:



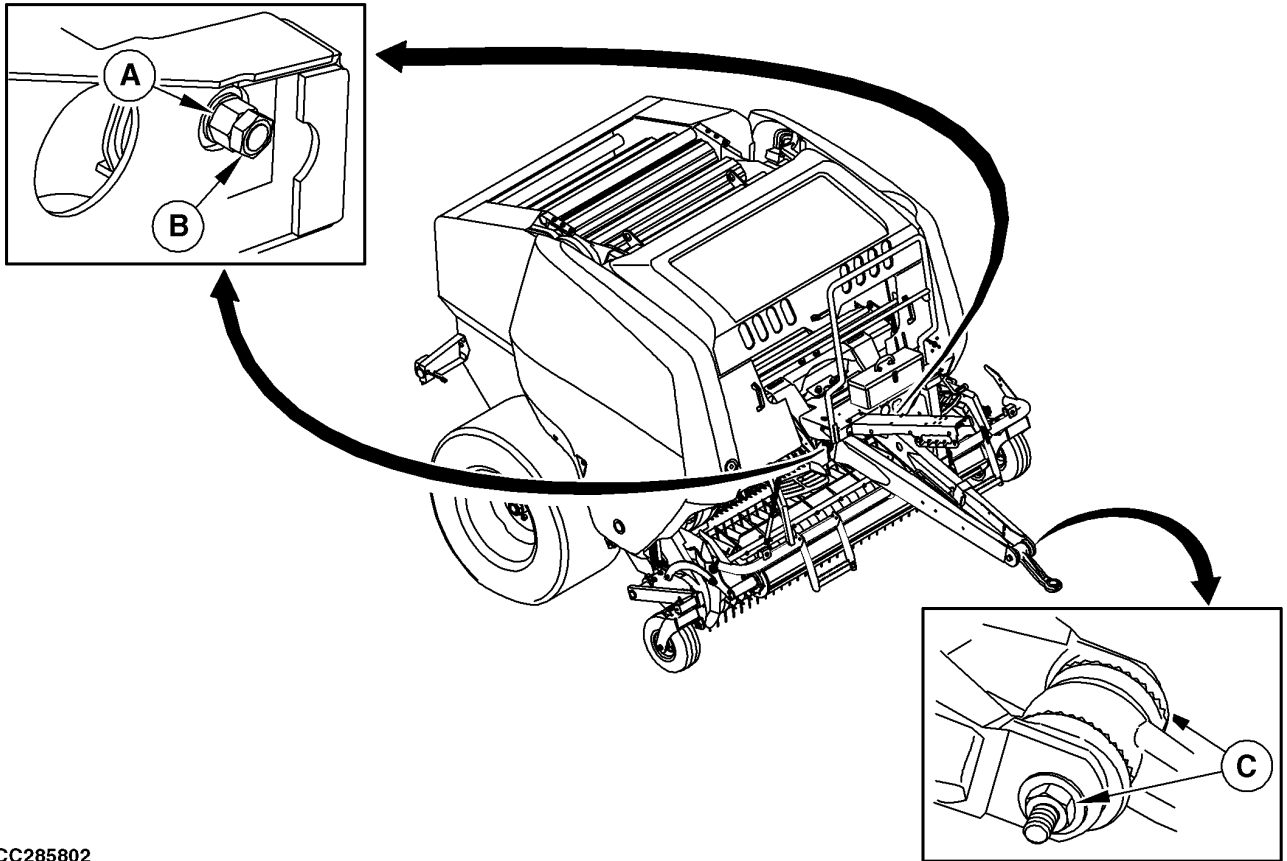
CC286972—UN—01SEP16

Specification

Brake Pivot—Torque..... 220—280 N·m
(162—206 lb·ft)

NB02380,0000495 -19-12JUL17-1/1

Every 100 Hours or Yearly: Tongue Frame and Hitch



CC285802

A—Tongue Frame Fixing Nut

B—Tongue Frame Lock Nut

C—Hitch Fixing Screw

Retighten tongue frame fixing nuts (A), lock nuts (B) and hitch fixing screw (C) to specified torque:

Specification	
Tongue Frame Fixing Nut—Torque.....	700 N·m (516 lb-ft)

Tongue Frame Lock Nut—Torque.....	300 N·m (221 lb-ft)
Hitch Fixing Screw—Torque.....	620 N·m (450 lb-ft)

NB02380,0000496 -19-12JUL17-1/1

CC285802 —UN—05SEP16

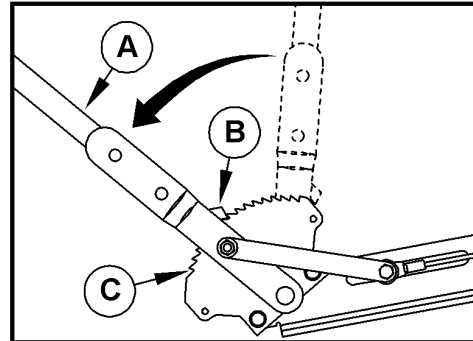
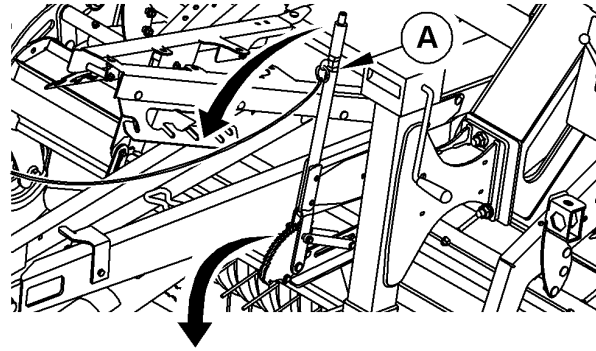
Monthly - Check Park Brake

Pull lever (A) at the maximum to engage park brake then check that latch (B) is not positioned on latest remaining notch (C).

If not, see your John Deere dealer.

A—Park Brake Lever
B—Park Brake Latch

C—Remaining Notch



CC205667

CC205667 —UN—16OCT13

OUCC006,0001B23 -19-26SEP13-1/1

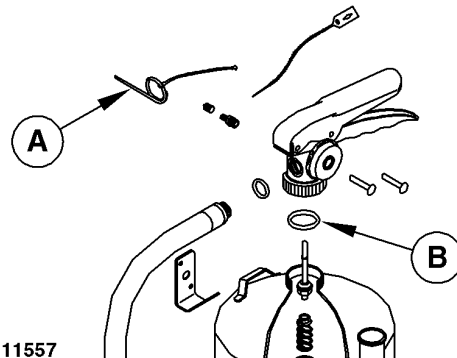
Monthly - Inspection of Pressurized Water Tank

1. Check for any possible damage: corrosion, leakage or obstruction in the discharge outlet.
2. Check that the seal (B) is not broken.
3. Check that the safety pin (A) is in good condition.
4. The pressurized water tank must be clean, and the instructions on the label must always be clearly visible.

When inspection of the pressurized water tank reveals a deficiency, the pressurized water tank must be replaced.

A—Safety Pin

B—Seal



CC211557

CC211557 —UN—20AUG14

DC82261,00004D7 -19-20AUG14-1/1

Every 500 Hours or Yearly: Drain and Refill Gear Case

IMPORTANT: Change the oil in the gear case after the first 50 hours and then every 500 hours or yearly, whichever comes first.

Do not overfill gear case as this will result in overheating and oil leakage.

NOTE: Front shield removed for illustration purposes.

1. Drain the oil while it is warm (i.e. after operation). Pull out dipstick (A) and drain plug (C), then drain oil into a suitable receptacle.
2. Clean then reinstall drain plug (C) and tighten to specified torque:

Specification

Drain Plug—Torque.....40 N·m
(29 lb·ft)

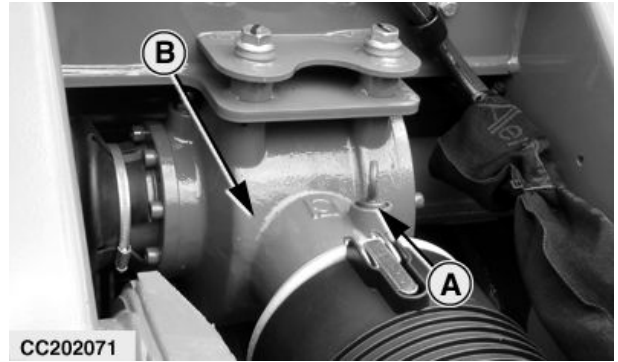
3. Refill gear case (B) with John Deere EXTREME-GARD™ or equivalent. See Gear Oil in this section.

Specification

540 and 1000 rpm Gear
Case—Capacity..... 2.9 L
(0.77 gal)

4. Check oil level with dipstick (A).

EXTREME-GARD is a trademark of Deere & Company



A—Dipstick
B—Gear Case

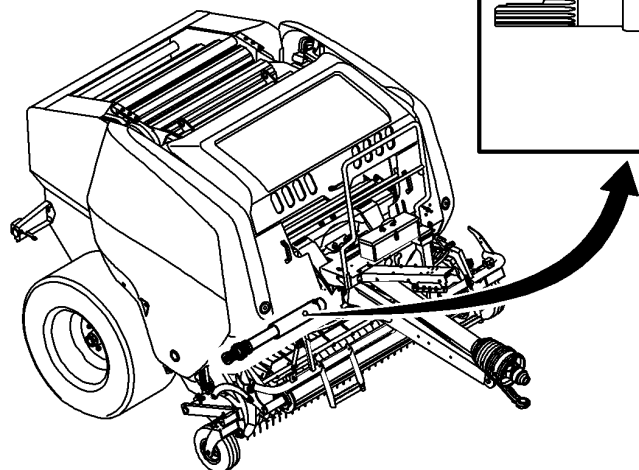
C—Drain Plug

CC202071 —UN—12APR13

CC202072 —UN—12APR13

NB02380,0000173 -19-04NOV16-1/1

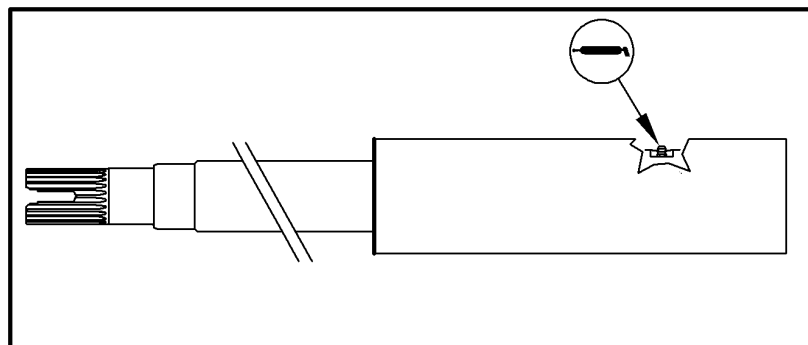
Every 500 Hours or Yearly: Extension Shaft



CC283558

Lubricate with John Deere Grease-Gard™.

Grease-Gard is a trademark of Deere & Company

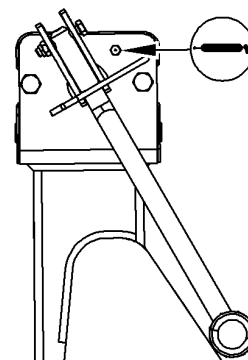


CC283558 —UN—04OCT16

NB02380,00001B0 -19-28NOV16-1/1

Every 500 Hours or Yearly: Jackstand

Lubricate with John Deere Grease-Gard™.



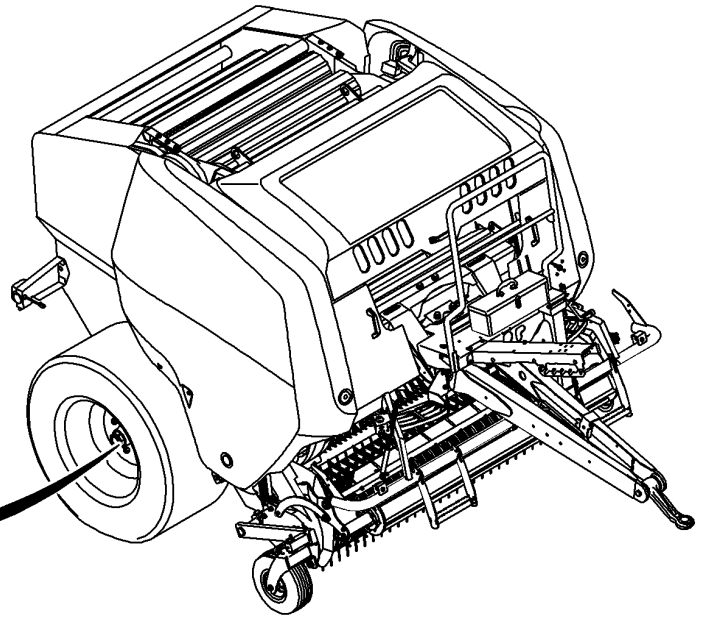
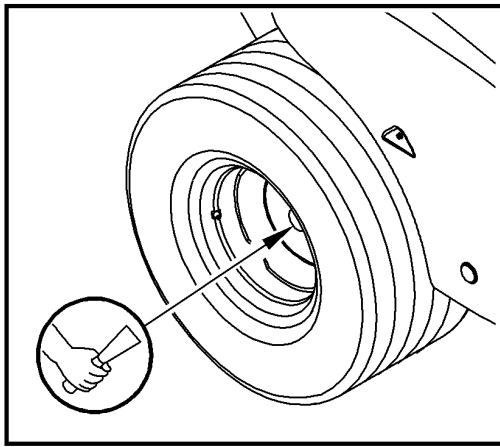
CC283536

Grease-Gard is a trademark of Deere & Company

CC283536 —UN—01SEP16

NB02380,0000170 -19-04NOV16-1/1

Every 2 Years: Axle Bearings



CC285803

To check and lubricate the axle bearings, see your John Deere dealer.

NB02380,0000190 -19-07NOV16-1/1

CC285803 —UN—18JUL16

Every 3 Years - Accumulators

Always observe local regulations for accumulator service intervals.

Any service and maintenance on accumulators must be done by your John Deere dealer only. Have the accumulators visually checked at least every 3 years.



CC1022636

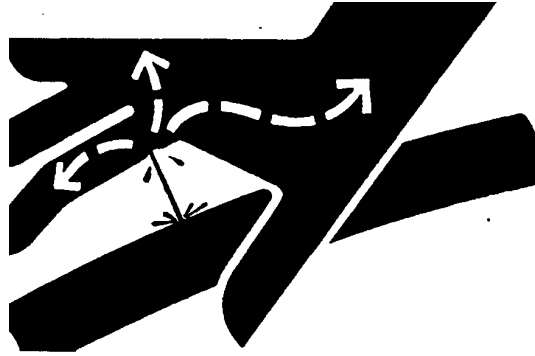
CC03745,0000FE9 -19-17NOV09-1/1

CC1022636 —UN—15JAN03

Every 6 Years - Hydraulic Hoses

Due to wear on hydraulic hoses over time, it is recommended to change hydraulic hoses every 6 years.

In some countries, regulations make this recommendation mandatory.



X9811 —UN—23AUG88

AP00976,000018D -19-14DEC10-1/1

Every 10 Years - Accumulators

Always observe local regulations for accumulator service intervals.

Any service and maintenance on accumulators must be done by your John Deere dealer only. Have a complete inspection with pressure check performed by your dealer every 10 years.



CC1022636

CC1022636 —UN—15JAN03

CC03745,0000522 -19-01SEP03-1/1

Troubleshooting

Pickup and Feed Difficulties

Symptom	Problem	Solution
Clutch disengagement during bale formation.	Hay accumulation in front of or behind the rotor.	Check that the drop floor is in raised position. Adjust sensor if necessary. See Adjust Drop Floor Sensor SB531 in Service Section.
		Check if knives are well sharpened, if necessary see Sharpen Precutter Knives in Service Section.
		Check tongue adjustment, see Adjust Tongue in Preparing the Baler Section.
		Check adjustment of the roll (no. 13) scraper, see Adjust Roll (No. 13) Scraper in Service Section.
Not picking up hay cleanly.	Pickup set too high.	Lower pickup. See Adjust Pickup Height in Operating the Baler—General Purposes Section.
	Poor pickup flotation.	Check float spring adjustment. See Adjust Pickup Float Spring in Operating the Baler—General Purposes Section.
	Tongue set too low.	Check tongue adjustment. See Adjust Tongue in Preparing the Baler section.
	Short crop deflector or windrow compressor roll too high.	Lower short crop deflector or windrow compressor roll. See Adjust Short Crop Deflector (If Equipped) or Adjust Windrow Compressor Roll (If Equipped) in Operating the Baler—General Purposes Section.
	Windrows too light.	Rake heavier windrows. See Operating the Baler—General Purposes Section.
	Pickup teeth bent or broken.	Straighten or replace teeth, see Replace Pickup Tooth in Service Section.
	Ground speed too high.	Reduce ground speed.
Pickup does not float or drops freely.	Excess or insufficient float assist.	Adjust float springs. See Adjust Pickup Float Spring in Operating the Baler—General Purposes Section.
		Check there is no crop accumulation between pickup frame and precutter frame, or between pickup frame and drop floor (if equipped).

Continued on next page

NB02380,00001E8 -19-02DEC16-1/4

Symptom	Problem	Solution
Pickup teeth do not revolve.	Pickup drive chain not enough tensioned or broken.	Adjust tension of pickup drive chain, see Adjust Pickup Drive Chain in Service Section. Replace chain.
	Broken cam.	Replace cam. See your John Deere dealer.
Pickup teeth digging in ground.	Pickup set too low.	Raise pickup. See Adjust Pickup Height in Operating the Baler—General Purposes Section.
	Poor pickup flotation.	Check float spring adjustment. See Adjust Pickup Float Spring in Operating the Baler—General Purposes Section.
Pickup tooth breakage.	Pickup set too low.	Raise pickup. See Adjust Pickup Height in Operating the Baler—General Purposes Section.
	Foreign material inside and/or broken teeth.	Remove material and/or replace teeth, see Replace Pickup Tooth in Service Section.
	Baling cornstalks.	Raise pickup. Higher tooth breakage can be expected. See Operating the Baler—General Purposes Section.
Inside of strippers worn.	Strippers bent up hitting tooth coils.	Check for binding at flares.
		Check teeth and stripper position.
		Increase float. See Adjust Pickup Float Spring in Operating the Baler—General Purposes Section.
		Raise pickup. See Adjust Pickup Height in Operating the Baler—General Purposes Section.
Bulldozing.	High windrows and/or ground speed too high.	Reduce windrow size and/or tractor ground speed.
	Short crop deflector or windrow compressor roll too low.	Raise short crop deflector or windrow compressor roll. See Adjust Short Crop Deflector (If Equipped) or Adjust Windrow Compressor Roll (If Equipped) in Operating the Baler—General Purposes Section.
	Tongue not set properly.	Check tongue adjustment. See Adjust Tongue in Preparing the Baler section.

Continued on next page

NB02380,00001E8 -19-02DEC16-2/4

Symptom	Problem	Solution
	Missing pickup teeth.	Replace teeth, see Replace Pickup Tooth in Service Section.
Plugging at flares.	Over-crowding ends.	Reduce crowding.
	Pickup set too low.	Raise pickup. See Adjust Pickup Height in Operating the Baler—General Purposes Section.
Plugging at rotary feeder.	Ground speed too high.	Reduce ground speed. To unplug rotary feeder, see Unplug Pickup in Operating the Baler Application Section.
		Check drop floor adjustment.
	Bale density too high.	Decrease density. See Adjust Bale Density in Operating Baler Application Section.
	Plugging at converging augers.	Check that drop floor is in raised position. Adjust sensor if necessary. See Adjust Drop Floor Sensor SB531 in Service Section.
		Adjust rotor auger scrapers. See Adjust Rotor Auger Scrapers in Service Section.
Plugging at pickup.	Short crop deflector or windrow compressor roll too high.	Lower short crop deflector or windrow compressor roll. See Adjust Short Crop Deflector (If Equipped) or Adjust Windrow Compressor Roll (If Equipped) in Operating the Baler—General Purposes Section.
	Bad tongue adjustment.	Check tongue adjustment, see Adjust Tongue in Preparing the Baler Section.
	Excessive windrow size.	Reduce windrow size.
	Ground speed too high.	Reduce ground speed.
Noise in the rotor.	Deformed tooth of rotor.	See your John Deere dealer.
	Foreign body inside rotor.	Remove foreign body from inside of rotor.
	Bad stripper adjustment.	Check stripper adjustment.
	Interference between knives and teeth.	Check there is no interference between knife and teeth.
Loss of knife.	Knife locking bar unlocked.	Lock bar.

Continued on next page

NB02380,00001E8 -19-02DEC16-3/4

Troubleshooting

Symptom	Problem	Solution
	Knife locking bar worn.	Replace knife locking bar. See your John Deere dealer.
	Knife slot worn.	Replace worn knife.

NB02380,00001E8 -19-02DEC16-4/4

General Baler Difficulties

Symptom	Problem	Solution
Excessive tractor power requirements during operation with precutter knives engaged.	Precutter knives are worn.	Sharpen or replace precutter knives. See Sharpen Precutter Knives in Service section.
Gate does not close.	Obstruction between gate and frame.	Remove obstruction.
	Gate lock valve is locked.	Unlock the gate lock valve.
	Faulty gate lock valve.	See your John Deere dealer.
	Faulty hydraulic coupler.	Check hydraulic couplers.
	Faulty tractor hydraulic system.	See your John Deere dealer.
Gate does not open.	Gate lock valve is locked.	Unlock the gate lock valve.
	Damaged hoses or fittings.	See your John Deere dealer.
	Faulty gate lock valve.	See your John Deere dealer.
	Faulty gate hydraulic cylinder.	See your John Deere dealer.
	Faulty hydraulic coupler.	Check hydraulic couplers.
	Faulty tractor hydraulic system.	See your John Deere dealer.
	Faulty gate potentiometer.	Calibrate gate potentiometer, see Calibrate Gate Position Potentiometer RB331 in Baler Application Service section.
		Check potentiometer.
Gate opens unexpectedly without pressure on manometer.	Bale density knob too loose or tractor hydraulic system failure.	Check bale density adjustment. See Adjust Bale Density in Operating Baler Application section.
		Check position of tractor's selective control valve lever which must be in neutral or floating position. Check tractor hydraulic system.
	Faulty density valve.	See your John Deere dealer.
Gate closes by itself with gate lock valve in unlocked position.	Damaged hoses or fittings.	See your John Deere dealer.
	Tractor selective control valve leaking.	See your John Deere dealer.
	Faulty gate hydraulic cylinder.	See your John Deere dealer.

Continued on next page

NB02380,00001E9 -19-29NOV16-1/3

Symptom	Problem	Solution
Gate closes by itself (gate hydraulic cylinder retracts > 10 cm/hour) with gate lock valve in locked position.	Damaged hoses or fittings.	See your John Deere dealer.
	Faulty gate lock valve.	See your John Deere dealer.
	Faulty gate hydraulic cylinder.	See your John Deere dealer.
Gate opens with gate lock valve in locked position.	Faulty gate lock valve.	See your John Deere dealer.
Baler does not bale short, dry, slick crops.	PTO speed too high.	Set recommended PTO speed.
	Pickup too low.	Raise pickup. See Adjust Pickup Height in Operating the Baler—General Purposes section.
	Windrow too light.	Rake heavier windrows. See Operating the Baler—General Purposes section.
	Bale slips or does not turn in chamber.	Set bale full-size to minimum. See Set Bale Diameter in Operating Baler Application section.
		Increase bale density. See Adjust Bale Density in Operating Baler Application section.
Bale sticks in chamber.	Bale density too high.	Lower bale density at control valve. See Adjust Bale Density in Operating Baler Application section.
Bale density control knob hard to turn.	Locking ring locked against valve body.	Unscrew locking ring before adjusting density control knob.
	Dry threads on adjusting screw.	Apply a few drops of oil or dry graphite lubricant on the threads.
	Gate hydraulic cylinder under pressure.	Open gate to reduce pressure, check pressure on manometer.
Bale density gauge reading in red.	Selective control valve lever of tractor not in neutral position.	Move lever to neutral position.
	Bale density gauge defective.	Replace gauge. See your John Deere dealer.
	Bale too high according to baler diameter setup.	Stop to bale just after the last bip.
	Bale density valve defective.	Replace or repair valve. See your John Deere dealer.
	Faulty accumulator.	See your John Deere dealer.

Continued on next page

NB02380,00001E9 -19-29NOV16-2/3

Troubleshooting

Symptom	Problem	Solution
Clutch disengagement during bale formation.	Baler plugged.	See Pickup and Feed Difficulties in this section.
Excessive shear bolt breakage.	Tractor PTO engaged too fast.	Engage PTO slowly.
	Wrong size or grade of shear bolt.	Replace with recommended shear bolt.

NB02380,00001E9 -19-29NOV16-3/3

Bale Quality

Symptom	Problem	Solution
Baler will not make dense bales.	Internal leak in gate hydraulic cylinder.	See your John Deere dealer.
	Dirty or defective relief valve.	See your John Deere dealer.
	Bad bale shape.	See Guidelines to Form a Good Bale in Operating Baler Application section.
	Density control adjusted for light bales.	Adjust for heavier bales. See Operating the Baler—General Purposes section.

NB02380,00001EA -19-29NOV16-1/1

Silage Difficulties

Symptom	Problem	Solution
Baler plugged due to a too large quantity of silage.	Irregular windrows.	Adapt drive speed to windrow size. Re-engage PTO at low engine rpm. If unsuccessful, lower the drop floor and retract precutter knives. See Unplug Pickup in Operating Baler Application section.

NB02380,00001ED -19-29NOV16-1/1

Net Binding Device Difficulties

Symptom	Problem	Solution
Bale not bound (with DTC).	Net roll empty.	Install a new net roll. See Load Net Roll in Preparing the Baler section.
	Net rubber roll not engaged.	Check net roll rotation using net binding cover opening and check belt tension. Replace drive belt. See your John Deere dealer.
	Net rolled up around rubber roll.	See Remove Net Wrapped Around Feed Rolls in Service section. Adjust counter-knife and metallic deflector position. See Adjust Counter-Knife Position in Service section. Check that rubber net guide is above the roll no. 15. Clean feed rolls. See Care of Net Binding Device in Preparing the Baler section. Check that net roll diameter is not greater than 300 mm (11.8 in).
	Net rolled up around rubber roll after the first bale of the day.	Disengage net from net feed rolls if baler must stand over night or more than 10 hours without operation.
	Net not engaged properly (new roll).	Restart net installation. See Load Net Roll in Preparing the Baler section.
	Feed rolls sticky or damaged.	Clean feed rolls. See Care of Net Binding Device in Preparing the Baler section. See your John Deere dealer.
	Net sticky from packaging.	Cut off sticky area.
	Bale not bound (without DTC).	
	Net around sticky rolls of baler.	Clean the relevant rolls.
	Net rolled up around rotor.	Check that rubber net guide is above the roll no. 15. Check adjustment of strippers of rolls no. 13, 14 and 15. See Adjust Strippers of Rolls (No. 13, No. 14 and No. 15) .

Continued on next page

CC03745,000123B -19-09AUG17-1/2

Symptom	Problem	Solution
Bale not uniformly covered on the complete width.	Net on the ground or rolled up around roll no. 13 or 14, or pickup.	Decrease bale diameter.
	Net binding cover gas spring(s) defective.	Check gas springs on both sides of the net binding cover. Replace if necessary.
	Net binding cover not closed.	Cover must be closed and latched for best results. See <u>Load Net Roll</u> in Preparing the Baler section.
	Bad adjustment of rubber roll brake.	Adjust rubber roll brake, see <u>Adjust Rubber Roll Brake</u> in Service Section.
Net not cut.	Rubber roll brake not engaged.	Engage rubber roll brake.
	Specified net quality not used.	Use recommended net quality. See <u>Select Net Roll</u> in Preparing the Baler section.
	Net actuator not retracted.	Check potential interference. See your John Deere dealer.
	Electrical components defective.	Check and/or replace parts.
Net not tight around bale.	Dull knife.	Sharpen knife. See <u>Sharpen Net Knife</u> in Service section.
	Rubber roll brake not correctly adjusted.	Adjust net feed roll brake. See <u>Adjust Rubber Roll Brake</u> in Service section.
	Bad adjustment of rubber roll brake.	Adjust rubber roll brake, see <u>Adjust Rubber Roll Brake</u> in Service Section.
	Rubber roll brake not engaged.	Engage rubber roll brake.
	Net binding cover gas spring(s) defective.	Check gas springs on both sides of the net binding cover. Replace if necessary.
	Small net roll behind press roll.	Check that net roll (when small) is not behind press roll. See <u>Load Net Roll</u> in Preparing the Baler section. Check adjustment of plastic rollers. See <u>Adjust Plastic Rollers</u> in Service Section.

CC03745,000123B -19-09AUG17-2/2

Chain Oiling System

Symptom	Problem	Solution
Oil consumption too high.	Main line interrupted.	Repair or replace.
	Oil too light.	Use a type of oil specified in Lubrication and Maintenance section. Reduce oil flow. See Adjust Oil Flow in Lubrication and Maintenance section.
Oil consumption too low.	Oil too heavy.	Use a type of oil specified in Lubrication and Maintenance section. Increase oil flow. See Adjust Oil Flow in Lubrication and Maintenance section.
Machine dry.	Pump inoperative resulting in no pressure.	Repair, adjust or replace.
	Main line interrupted.	Repair or replace.
	No oil in system.	Refill as necessary with specified oil. See Lubricating and Maintenance section.
	Air lock or pump empty.	Bleed pump.
	Heavy contamination resulting in blocked system.	Clean system and replace all metering valves.
	Line trapped.	Repair lines and check there is no contact with moving parts.

NB02380,00001D7 -19-20SEP16-1/1

Automatic Greasing System (If Equipped with Reservoir-Type Pump)

Symptom	Problem	Solution
Machine not greased (grease emerges from relief valve).	Blockage at grease nipple or in grease line.	Disconnect one line at a time between the primary and secondary distributors. The blockage lies behind the secondary distributor with the disconnected line from which more grease is emerging. Clear the blockage at the relevant secondary distributor.
Machine not greased (no grease emerges from relief valve).	Automatic greasing system is disabled.	Enable pump with monitor. See Set Automatic Greasing System (If Equipped with Reservoir-Type Pump) in Baler Application Service section.
	Grease reservoir empty.	Refill reservoir. See Lubrication and Maintenance section.
	The pump does not work.	Bleed pump. See Service section. Check wires and connectors. Check pump. See your John Deere dealer.
Nipple not greased (no grease emerges from relief valve).	Leak occurs in a greasing line.	Replace damaged greasing line. See your John Deere dealer.

NB02380,00001F3 -19-02DEC16-1/1

Automatic Greasing System (If Equipped with Cartridge-Type Pump)

the other grease nipples. Pressure rises then no grease emerges from the cartridge-type pump.

NOTE: If blockage occurs at a grease nipple or in a grease line, the supply of grease is stopped for all

Symptom	Problem	Solution
Machine not greased	Blockage at grease nipple or in grease line.	Open lines between the primary and secondary distributors, one at a time. The blockage lies behind the secondary distributor with the line from which the most grease is emerging. Clear the blockage by placing a commercially available grease gun (pressure up to 40000 Pa; 400 bar; 5800 psi) at the relevant secondary distributor.
	Grease cartridge empty.	Replace grease cartridge. See Lubrication and Maintenance section.
	The pump does not work.	Bleed pump. See Service section. Check pump. See your John Deere dealer.
Nipple not greased	Leak occurs in a greasing line.	Replace damaged greasing line. See your John Deere dealer.

OUC006,0001AE5 -19-24SEP13-1/1

Implement Virtual Terminal Display

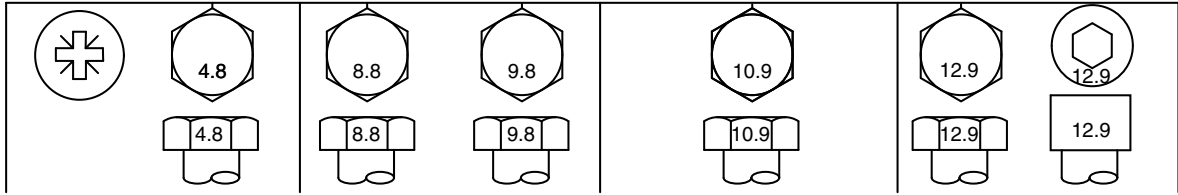
Symptom	Problem	Solution
Display is blank.	No power.	Check harness connections at the display.
	Out of contrast or insufficient backlighting.	Adjust the contrast. Change backlighting level intensity.
Display audible alarm does not sound.	Possible failed alarm.	See your John Deere dealer.
Display is locked up on a certain page.	Communication problem.	Turn ignition key OFF and ON.

NB02380,00001EC -19-19OCT16-1/1

Service

Metric Bolt and Screw Torque Values

TS1670 —UN—01MAY03



Bolt or Screw Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b	
	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.
M6	4.7	42	6	53	8.9	79	11.3	100	13	115	16.5	146	15.5	137	19.5	172
									N·m	lb.-ft.	N·m	lb.-ft.	N·m	lb.-ft.	N·m	lb.-ft.
M8	11.5	102	14.5	128	22	194	27.5	243	32	23.5	40	29.5	37	27.5	47	35
			N·m	lb.-ft.	N·m	lb.-ft.	N·m	lb.-ft.								
M10	23	204	29	21	43	32	55	40	63	46	80	59	75	55	95	70
	N·m	lb.-ft.														
M12	40	29.5	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	46	80	59	120	88	150	110	175	130	220	165	205	150	260	190
M16	100	74	125	92	190	140	240	175	275	200	350	255	320	235	400	300
M18	135	100	170	125	265	195	330	245	375	275	475	350	440	325	560	410
M20	190	140	245	180	375	275	475	350	530	390	675	500	625	460	790	580
M22	265	195	330	245	510	375	650	480	725	535	920	680	850	625	1080	800
M24	330	245	425	315	650	480	820	600	920	680	1150	850	1080	800	1350	1000
M27	490	360	625	460	950	700	1200	885	1350	1000	1700	1250	1580	1160	2000	1475
M30	660	490	850	625	1290	950	1630	1200	1850	1350	2300	1700	2140	1580	2700	2000
M33	900	665	1150	850	1750	1300	2200	1625	2500	1850	3150	2325	2900	2150	3700	2730
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2770	4750	3500

Torque values listed are for general use only, based on the strength of the bolt or screw. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For stainless steel fasteners or for nuts on U-bolts, see the tightening instructions for the specific application. Tighten plastic insert or crimped steel type lock nuts by turning the nut to the dry torque shown in the chart, unless different instructions are given for the specific application.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class. Replace fasteners with the same or higher property class. If higher property class fasteners are used, tighten these to the strength of the original. Make sure fastener threads are clean and that you properly start thread engagement. When possible, lubricate plain or zinc plated fasteners other than lock nuts, wheel bolts or wheel nuts, unless different instructions are given for the specific application.

^a"Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or M20 and larger fasteners with JDM F13C, F13F or F13J zinc flake coating.

^b"Dry" means plain or zinc plated without any lubrication, or M6 to M18 fasteners with JDM F13B, F13E or F13H zinc flake coating.

DX.TORQ2 -19-12JAN11-1/1

Before Each Service

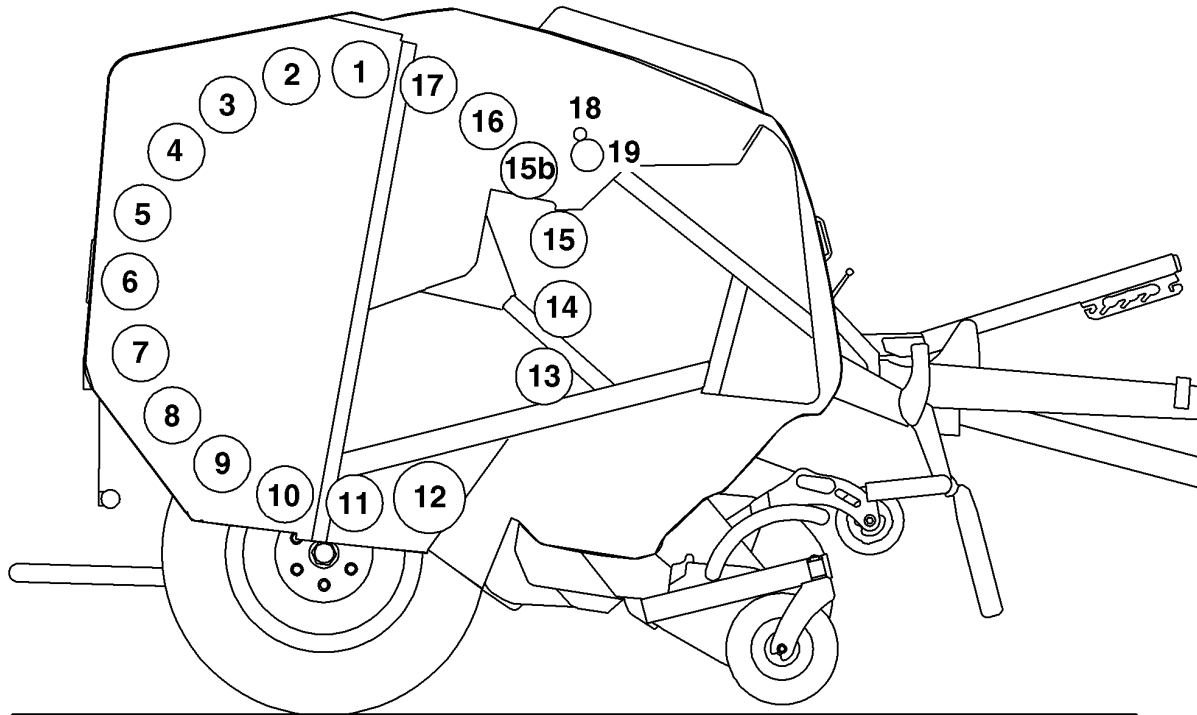
Follow these guidelines if the use of welder, cutting torch or grinder is required for service work:

1. Park baler on pavement or bare ground.
2. Remove chaff to avoid exposure of flammable material to sparks; if chaff cannot be removed, soak it thoroughly with water before starting. Protect hoses and belts from exposure to sparks, arcs, or flames.

3. Have the pressurized water tank or other source of extinguishing agent ready for immediate use.
4. Use an assistant to check for fire while welding, cutting, or grinding.
5. After welding, cutting or grinding allow parts to cool down before starting to bale. Verify that no fire has started before leaving service area.

DC82261,00004F7 -19-12SEP14-1/1

Baler Roll Numbering



CC283540

1— Upper Gate Roll
 2-9— Intermediate Gate Rolls
 10— Lower Gate Roll
 11— Lower Front Frame Roll
 12— Starter Roll

13— Intermediate Front Frame Roll
 14— Intermediate Front Frame Drive Roll
 15— Intermediate Front Frame Roll

15b— Additional Roll (If equipped)
 16— Intermediate Front Frame Roll
 17— Upper Front Frame Drive Roll

18— Galvanized Net Feed Roll
 19— Rubber-Coated Net Feed Roll

NOTE: Numbers shown above must not be used when ordering roll replacement parts. Always refer to relevant parts catalog.

NB02380,0000178 -19-01AUG16-1/1

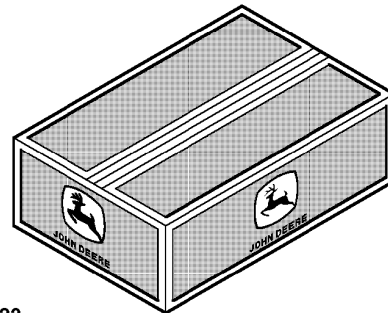
CC283540 —UN—01DEC16

Use Genuine John Deere Parts

Genuine John Deere parts have been specifically designed for John Deere machines.

Other parts are neither examined nor released by John Deere. Installation and use of such products could have negative effects upon the design characteristics of the machine and thereby affect its safety.

Avoid this risk by using only genuine John Deere parts.



CC1020723

CC03745,0000FD5 -19-18SEP09-1/1

CC1020723 —UN—25OCT01

Charge Pressurized Water Tank

NOTE: Pressurized water tank is shipped uncharged. Prior to delivery of machine pressurized water tank must be charged.

When an antifreeze charge is used to freeze protect the pressurized water tank, a complete discharge and maintenance is required.

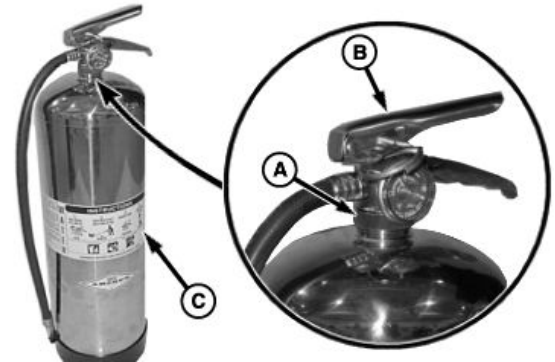
CAUTION: Before attempting to recharge ensure that pressurized water tank is completely depressurized.

1. Discharge all remaining pressure and water (or antifreeze solution) making sure that there is no remaining air pressure.
2. Loosen nut (A) and remove valve assembly (B) from cylinder (C).

IMPORTANT: Pressurized water tank must not be exposed to freezing temperatures unless protected with antifreeze.

NOTE: Corrosion inhibitor must be used, if water includes high levels of chlorides (40 ppm).

3. Fill cylinder with 9.5 L (2.5 gal.) of clean water or antifreeze solution.



A—Nut
B—Valve Assembly

C—Cylinder

NOTE: Fluid level will be approximately 15 cm (6 in.) below the top of the cylinder.

4. Check that the seal is not damaged, if necessary replace the seal.
5. Place the seal in nut (A) of the valve assembly (B).

Continued on next page

DC82261,00004DE -19-20AUG14-1/3

H92727 —UN—10SEP08

⚠ CAUTION: Hand tighten nut to specification. Over tightening with wrench will damage valve.

6. Install valve assembly (A) and tighten nut (B) to specification.

Specification	
Nut—Torque.....	11.3—11.9 N·m (100—105 lb-in)

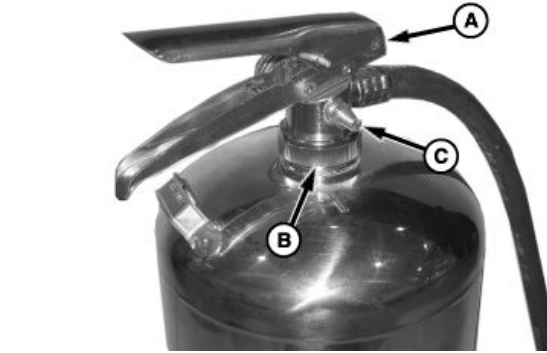
7. Remove cap from pressurizing valve (C).

NOTE: Set pressure regulator on air compressor to no more than 175 kPa (1.75 bar, 25 psi) higher than gauge operating pressure.

⚠ CAUTION: Never leave pressurized water tank connected to a regulator of a high-pressure source for an extended period of time. Do not over pressurize the pressurized water tank. Pressurized water tank may rupture if over pressurized.

8. Pressurize the pressurized water tank to specification using air or nitrogen.

Specification	
Pressurized Water Tank—Pressure.....	690 kPa 6.9 bar (100 psi)



A—Valve Assembly
B—Nut

C—Pressurizing Valve

NOTE: Check nut, gauge, pressurizing valve, cylinder welds, and valve orifice for leaks using leak detection fluid or a solution of soapy water.

9. Install previously removed cap on pressurizing valve.

DC82261,00004DE -19-20AUG14-2/3

10. Install pin (A) with ring facing towards front of pressurized water tank and install tamper seal.

11. Install hose and nozzle assembly (B) in holder (C).

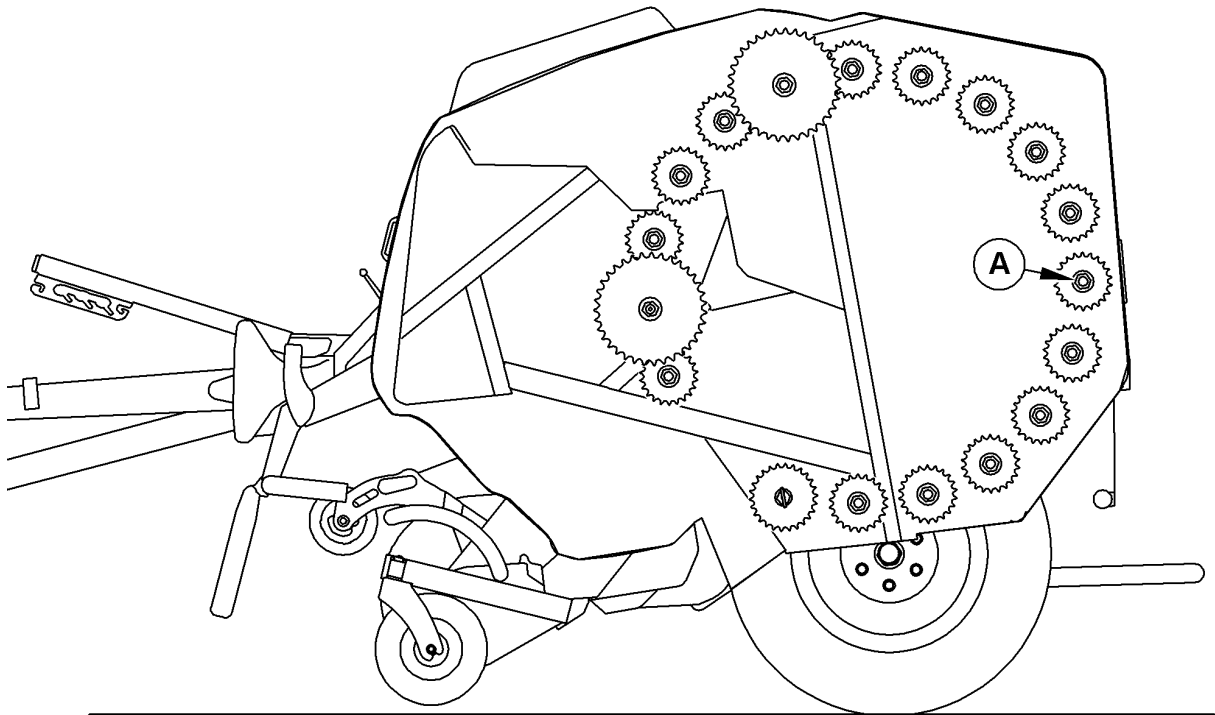
12. Install pressurized water tank on machine.

A—Pin
B—Hose and Nozzle Assembly
C—Holder



DC82261,00004DE -19-20AUG14-3/3

Tighten Roll Sprocket Fixing Nuts



CC283545

Baler with Rear Gate Rolls Shown

A—Fixing Nut and Screw

Roll sprocket fixing nuts (A) require specific torques.

Tighten all M16 and M30 fixing nuts and screws (A) to specified torque:

Specification	
M16 Fixing Screws—Torque.....	240 N·m (177 lb·ft)

M30 Fixing Nuts—Torque.....	900 N·m (664 lb·ft)
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NB02380,0000180 -19-24OCT16-1/1

CC283545—UN—18JUL16

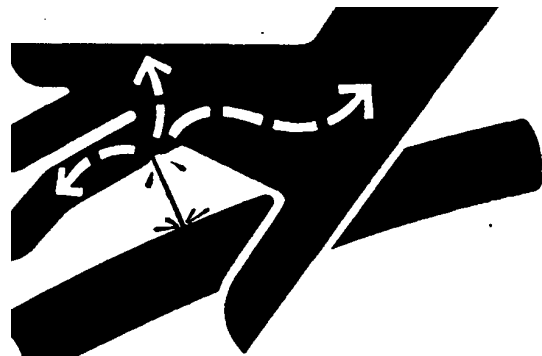
Replacing Hydraulic Components

CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

Always relieve hydraulic pressure before servicing hydraulic components.

To prevent twisting the hydraulic tubes, use two wrenches when removing or connecting hoses to tubes.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within

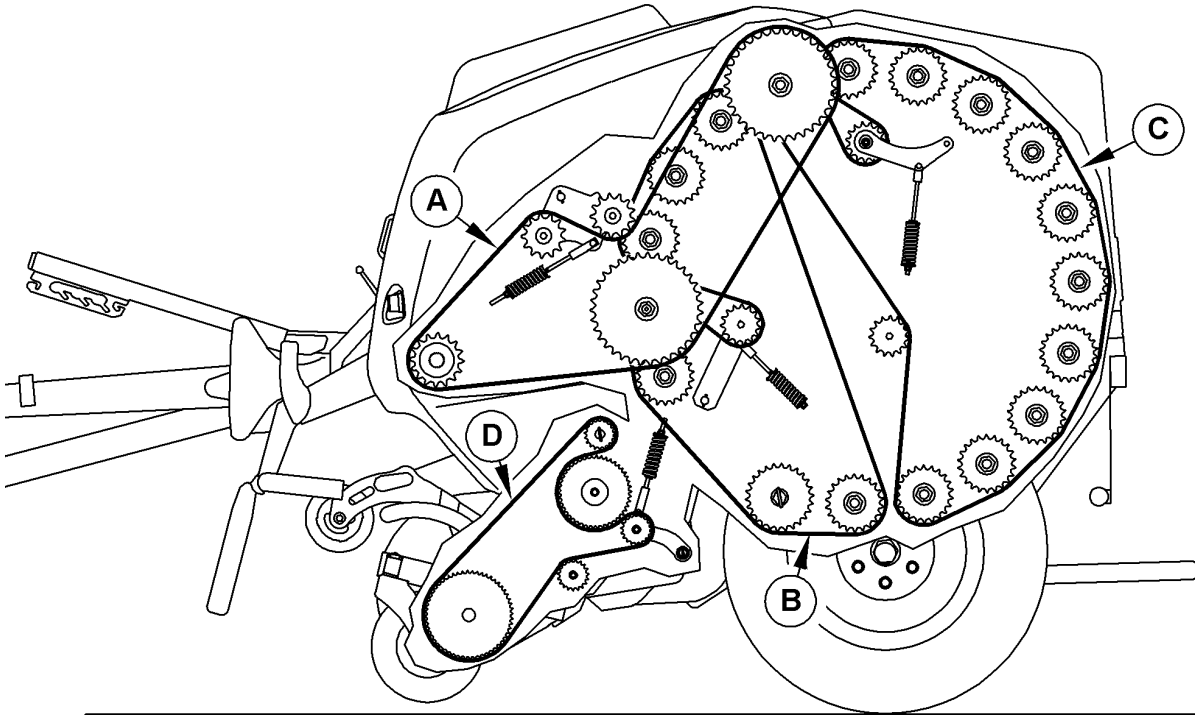


a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.

CC03745,0000286 -19-23AUG01-1/1

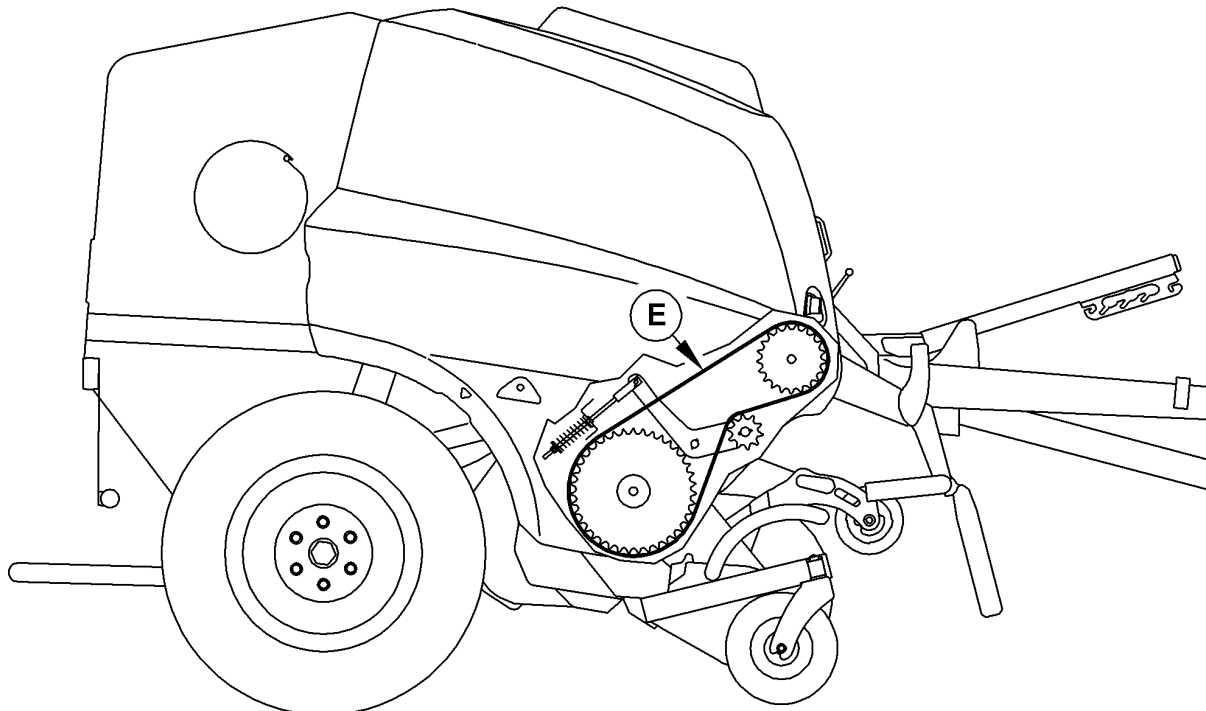
X9811—UN—23AUG88

Baler Chain Identification



CC283541

CC283541 —UN—18JUL16



CC205453

CC205453 —UN—16OCT13

A—Main Drive Chain
B—Frame Roll Drive Chain

C—Gate Roll Drive Chain
D—Pickup Drive Chain

E—Rotary Feeder Drive Chain

NB02380,0000179 -19-06JUN16-1/1

Adjust Pickup Drive Chain

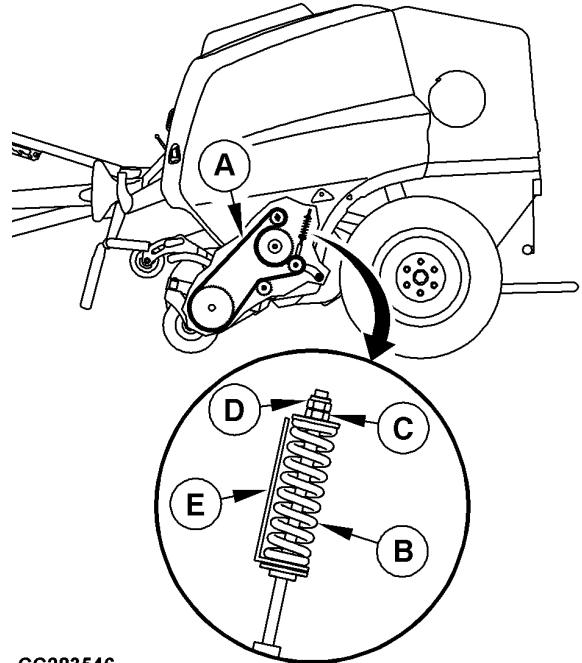
To ensure that all slack is removed from chain, close gate and engage PTO for a few seconds. Shut off tractor engine.

Adjust tension of pickup drive chain (A) as follows:

1. Loosen lock nut (D).
2. Adjust tension of pickup drive chain (A) by means of the nut (C) so that length of spring (B) and strap (E) are the same.
3. Engage PTO for a few seconds.
4. Check adjustment. Repeat from step 2 if necessary.
5. Tighten lock nut (D).

A—Pickup Drive Chain
B—Spring
C—Nut

D—Lock Nut
E—Strap



CC283546

NB02380,000017C -19-08JUN16-1/1

CC283546 —UN—18JUL16

Adjust Main Drive Chain

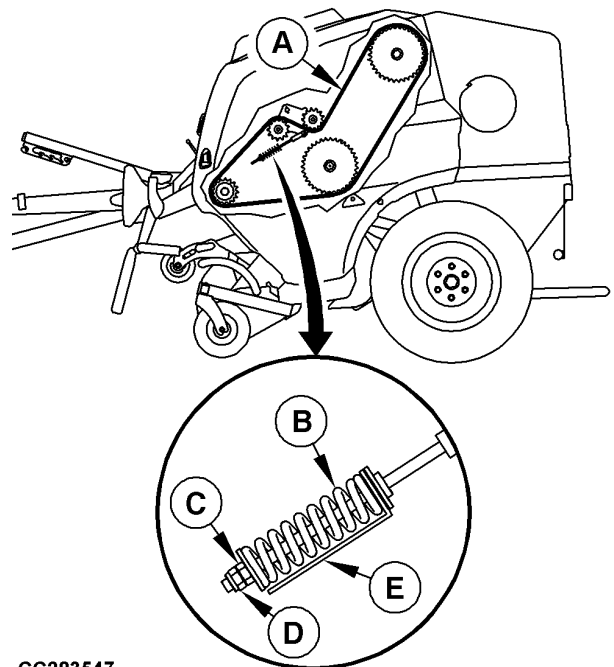
To ensure that all slack is removed from chain, close gate and engage PTO for a few seconds. Shut off tractor engine.

Adjust tension of main drive chain (A) as follows:

1. Loosen lock nut (D).
2. Adjust tension of main drive chain (A) by means of the nut (C) so that length of spring (B) and strap (E) are the same.
3. Engage PTO for a few seconds.
4. Check adjustment. Repeat from step 2 if necessary.
5. Tighten lock nut (D).

A—Main Drive Chain
B—Spring
C—Nut

D—Lock Nut
E—Strap



CC283547

NB02380,000017D -19-08JUN16-1/1

CC283547 —UN—18JUL16

Adjust Frame Roll Drive Chain

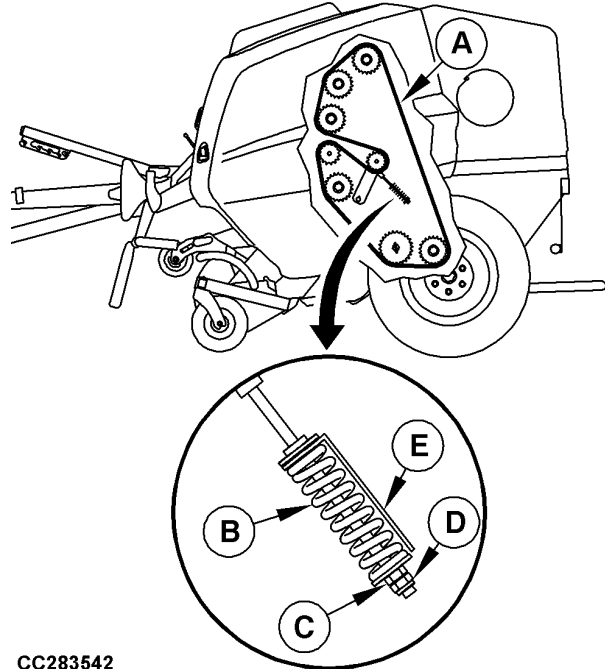
To ensure that all slack is removed from chain, close gate and engage PTO for a few seconds. Shut off tractor engine.

Adjust tension of frame roll drive chain (A) as follows:

1. Loosen lock nut (D).
2. Adjust tension of frame roll drive chain (A) by means of the nut (C) so that length of spring (B) and strap (E) are the same.
3. Engage PTO for a few seconds.
4. Check adjustment. Repeat from step 2 if necessary.
5. Tighten lock nut (D).

A—Frame Roll Drive Chain
B—Spring
C—Nut

D—Lock Nut
E—Strap



CC283542

CC283542—UN—18JUL16

NB02380,000017B -19-08JUN16-1/1

Adjust Gate Roll Drive Chain

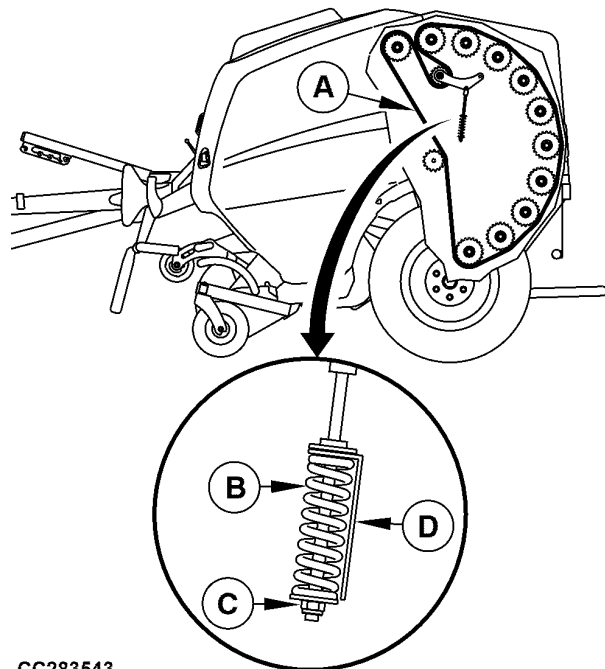
To ensure that all slack is removed from chain, close gate and engage PTO for a few seconds. Shut off tractor engine.

Adjust tension of gate roll drive chain (A) as follows:

1. Adjust tension of gate roll drive chain (A) by means of the nut (C) so that length of spring (B) and strap (D) are the same.
2. Engage PTO for a few seconds.
3. Check adjustment. Repeat from step 1 if necessary.

A—Gate Roll Drive Chain
B—Spring

C—Nut
D—Strap



CC283543

CC283543—UN—25OCT16

JC87117,00002D4 -19-25OCT16-1/1

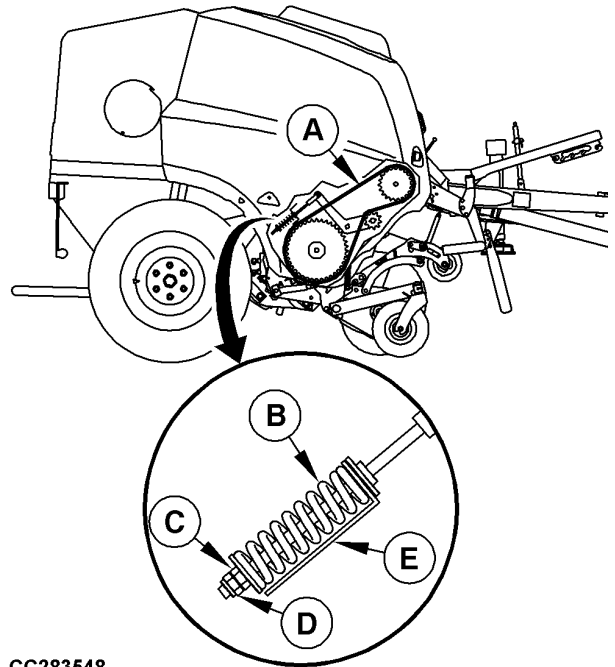
Adjust Rotary Feeder Drive Chain

To ensure that all slack is removed from chain, close gate and engage PTO for a few seconds. Shut off tractor engine.

Adjust tension of rotary feeder drive chain (A) as follows:

1. Loosen lock nut (D).
2. Adjust tension of rotary feeder drive chain (A) by means of the nut (C) so that length of spring (B) and strap (E) are the same.
3. Engage PTO for a few seconds.
4. Check adjustment. Repeat from step 2 if necessary.
5. Tighten lock nut (D).

A—Rotary Feeder Drive Chain D—Lock Nut
B—Spring E—Strap
C—Nut



CC283548

NB02380,000017F -19-08JUN16-1/1

CC283548—UN—18JUL16

Adjust Brushes

1. Adjust position of brushes according to the number of brushes used to lubricate one chain:
 - When one brush is used to lubricate the chain, align the center line of brush (A) with one of the plates located inside of chain (B).
 - When two brushes are used to lubricate the chain, align the center line of each brush (A) with the plates located inside of chain (B).
2. Adjust each brush (A) to obtain specified overlap length (C) with chain (B).

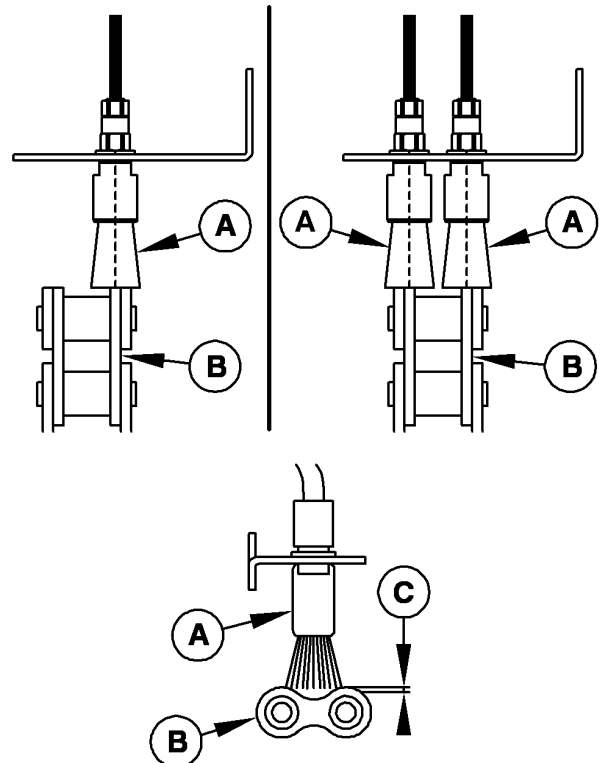
Specification

Brush to Chain—Overlap

Length.....0—2 mm
(0—0.08 in.)

This adjustment is necessary to clean and lubricate the drive chain correctly. Other adjustments may lead to chain premature wear.

A—Brush C—Brush to Chain Overlap
B—Chain Length



CC1035277

OUCC006,000181D -19-11OCT11-1/1

CC1035277—UN—23SEP11

Replace Precutter Knives

CAUTION: DO NOT TAKE CHANCES. To avoid injury or death by being cut by a knife, always close shut-off valves (A) and (B) before removing or replacing knives.

Always wear gloves to handle knives.

NOTE: Each knife (E) can be separately removed and replaced.

To remove and replace a knife, proceed as follows:

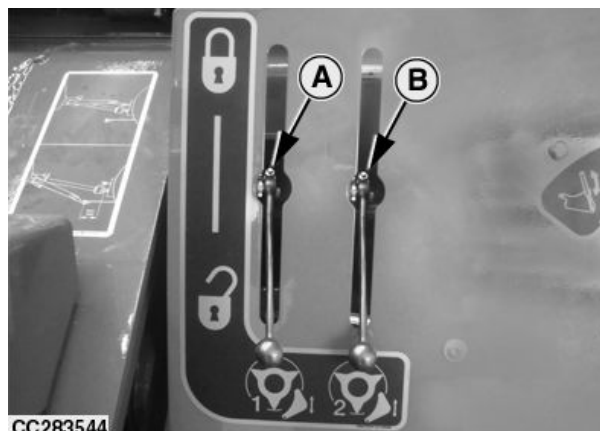
1. Retract knives. See [Retract or Engage Precutter Knives](#) in Operating Baler Application section.
2. Lower the drop floor. See [Unplug Pickup](#) in Operating Baler Application section.
3. Fully open the gate and secure it.
4. Engage park brake and/or place transmission in PARK, shut off tractor engine and remove key.
5. Close knife shut-off valves by positioning each lever (A) and (B) upwards.
6. On left side, pull the lever (C) out of its locking pin and lower it.
7. Pull on knife (E) to remove it from guide (F) and bar (D).
8. To install a knife, simply insert knife (E) first on the bar (D), then place it in guide (F).

IMPORTANT: When a knife is no longer required, it is recommended to install the knife slot filler (G) instead. This will avoid crop accumulation at the hole left by the missing knife.

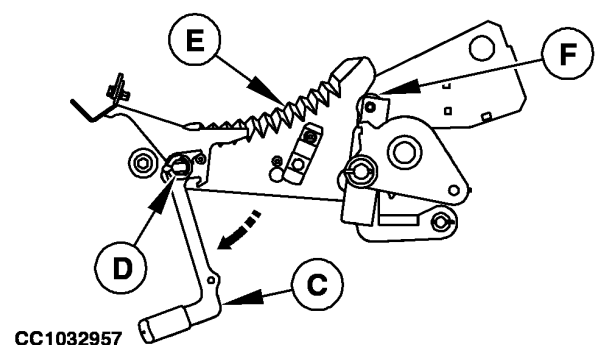
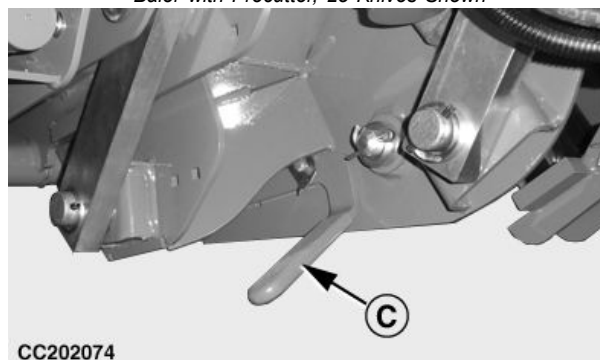
9. Raise and secure lever (C) in its locking pin.
10. Lower the gate.
11. Open knife shut-off valves by positioning each lever (A) and (B) downwards and raise drop floor.

A—Precutter Knife Set 1
Shut-Off Valve Lever
B—Precutter Knife Set 2
Shut-Off Valve Lever
C—Lever
D—Bar

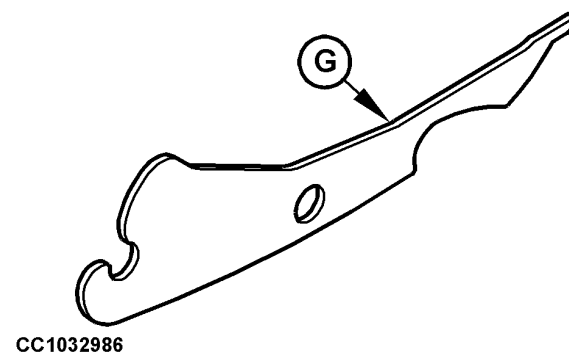
E—Knife
F—Guide
G—Knife Slot Filler



Baler with Precutter, 25 Knives Shown



CC1032957



CC1032986

NB02380,0000181 -19-28NOV16-1/1

CC283544 —UN—01SEP16

CC202074 —UN—12APR13

CC1032957 —UN—18NOV10

CC1032986 —UN—30JUN10

Sharpen Precutter Knives

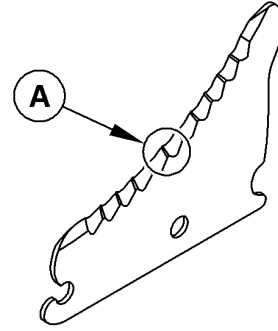
CAUTION: Prevent personal injury by wearing gloves to handle knives.

Remove knives from the machine. See Replace Precutter Knives, in this section.

Clamp knives to a bench or table.

Draw-file the smooth bevelled edge maintaining a 12° angle. See your John Deere dealer for more information on the knife sharpener device.

IMPORTANT: Heating precutter knives during sharpening process may reduce precutter knife life. If tooth profile (A) disappears, replace knife.



CC1029106

A—Tooth Profile

OUCC006,00016AD -19-23JUL10-1/1

CC1029106 —UN—08JAN07

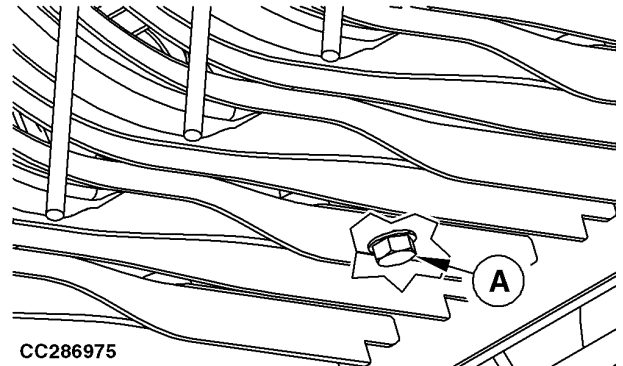
Replace Pickup Tooth

CAUTION: Before working on the baler, disengage the PTO, place transmission in PARK, engage park brake, shut off engine, remove ignition key and wait for moving parts to come to a standstill.

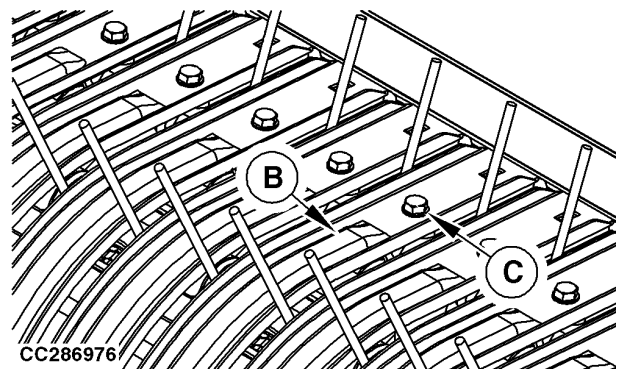
1. Remove bottom screw (A).
2. Remove upper screw (C) then remove stripper (B).

A—Bottom Screw
B—Stripper

C—Upper Screw



CC286975



CC286976

Continued on next page

NB02380,00001BC -19-07OCT16-1/3

CC286975 —UN—03AUG16

CC286976 —UN—03AUG16

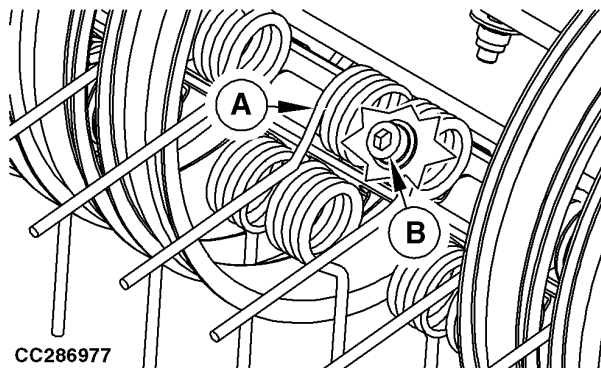
3. Remove screw (B).
4. Replace damaged pickup tooth (A). Pickup tooth must be fitted as shown.
5. Install and tighten screw (B) to specified torque.

Specification

Tooth Screw—Torque.....64 N·m
(47 lb·ft)

A—Tooth

B—Screw



CC286977 —UN—03AUG16

NB02380.00001BC -19-07OCT16-2/3

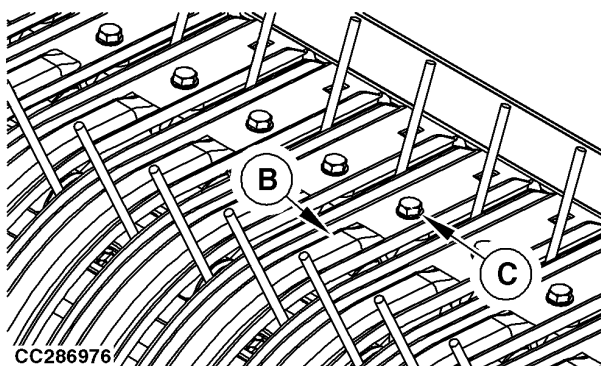
6. Replace stripper (B) if necessary. Install the stripper as shown.
7. Install upper screw (C) then bottom screw (A).
8. Tighten screws (A) and (C) to specified torque.

Specification

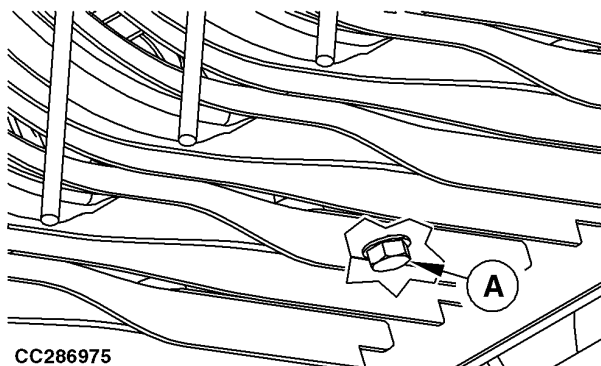
Stripper
Screws—Torque.....25 N·m
(18 lb·ft)

A—Bottom Screw
B—Stripper

C—Upper Screw



CC286976 —UN—03AUG16



CC286975 —UN—03AUG16

NB02380.00001BC -19-07OCT16-3/3

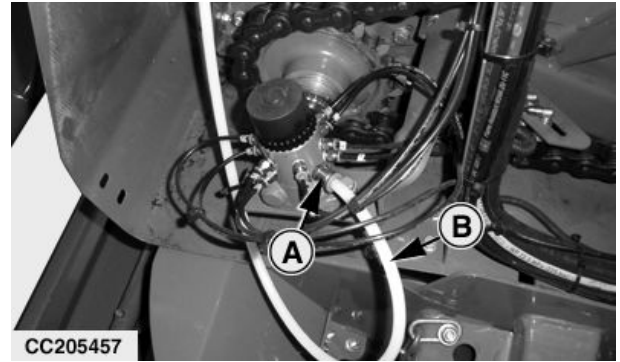
Bleed Chain Oiling System Pump

NOTE: It is necessary to bleed chain oiling system circuit if oil reservoir was totally empty.

1. Disconnect inlet pipe (B).
2. Wait until air of inlet pipe (B) is completely bled before reconnecting into coupling (A).
3. Run the baler until oil drains continuously from brushes.

A—Coupling

B—Inlet Pipe



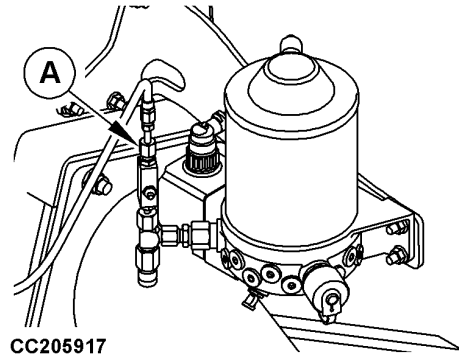
CC205457 —UN—10OCT13

OUCC006,0001B01 -19-17SEP13-1/1

Bleed Automatic Greasing System (If Equipped with Reservoir-Type Pump)

NOTE: If the grease reservoir was emptied, bleed the system as follows.

1. Remove main line (A) from pump outlet.
2. Initiate an automatic greasing cycle with monitor until grease without bubbles appears at the pump outlet. See [Set Automatic Greasing System \(If Equipped with Reservoir-Type Pump\)](#) in Baler Application Service section, to manually activate automatic greasing system.
3. Reconnect main line (A).
4. Initiate an automatic greasing cycle of 3 minutes.



A—Main Line

CC205917 —UN—25OCT13

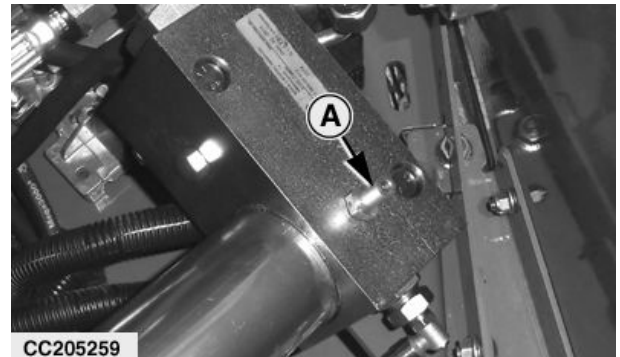
NB02380,00001F2 -19-28NOV16-1/1

Bleed Automatic Greasing System (If Equipped with Cartridge-Type Pump)

NOTE: Each time the grease cartridge is replaced, bleed the system as follows.

Press the ball on the vent fitting (A) and actuate selective control valve to open and close the rear gate. Repeat until the grease emerging is free of air bubbles.

A—Vent Fitting



CC205259 —UN—10OCT13

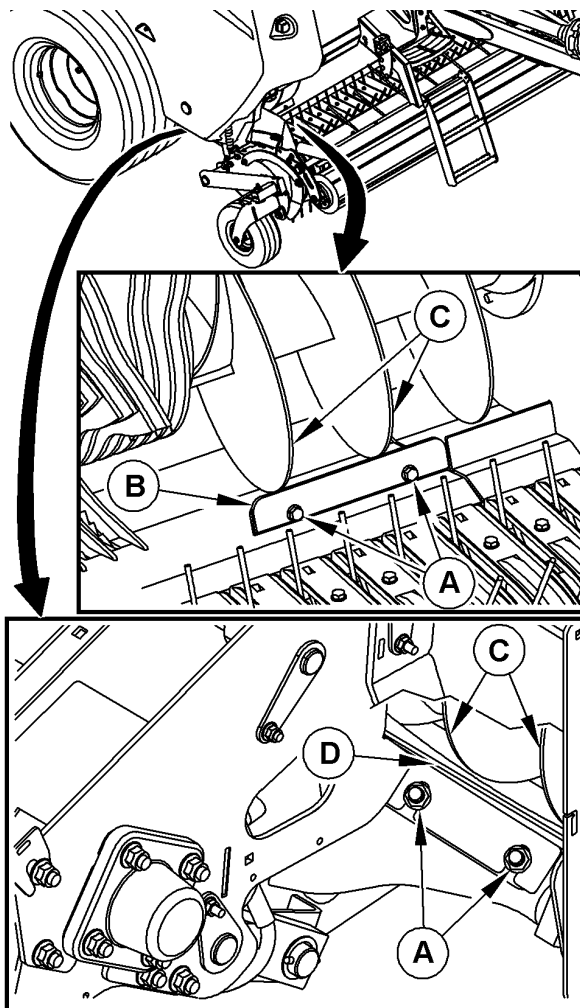
OUCC006,0001AEB -19-06SEP13-1/1

Adjust Rotor Auger Scrapers

1. Fully raise the drop floor. See Unplug Pickup in Operating Baler Application section.
2. Loosen screws (A).
3. Position and maintain scrapers (B) and (D) as close as possible to rotor auger (C) without contact.
4. Manually rotate baler to check for no interference between rotor auger (C) and scrapers (B) and (D). See Rotate Baler by Hand in Operating the Baler—General Purposes section.
5. Tighten screws (A).
6. Repeat procedure on the other side.

A—Screw
B—Front Scraper of Rotor Auger

C—Rotor Auger
D—Rear Scraper of Rotor Auger



CC202090

CC202090 —UN—18APR13

NB02380,00001EE -19-28NOV16-1/1

Adjust Roll (No. 13) Scraper

1. Fully open the gate.
2. Engage park brake and/or place transmission in PARK, shut off tractor engine and remove key.
3. Lock gate, see Secure Gate Safely in Safety Section.

CAUTION: Make sure gate is locked. If gate is not locked while performing this procedure, the gate could close suddenly causing injury or death.

4. Remove deflector fixing screws (G), bushings (F) and deflector (E).
5. Loosen scraper fixing screws (C) and (D).
6. Adjust scraper (B) as close as possible to roll (A) by turning eccentrics (H) clockwise by using appropriate tool in hexagonal shapes (I). Leave enough space (J) to avoid any contact with roll (A).
7. Manually rotate baler to check that there is no interference between roll (A) and scraper (B). See Rotate Baler by Hand in Operating the Baler—General Purposes section.
8. Tighten scraper fixing screws (C) then (D) to specified torque:

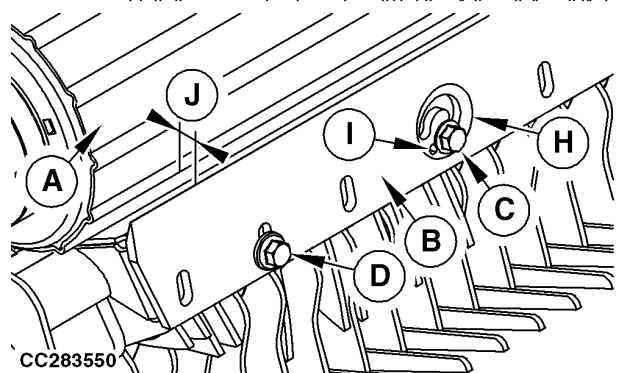
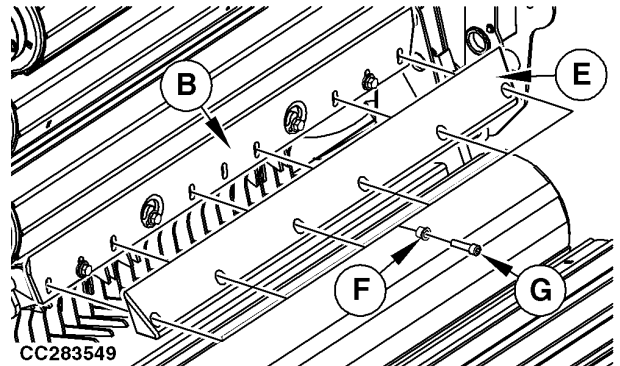
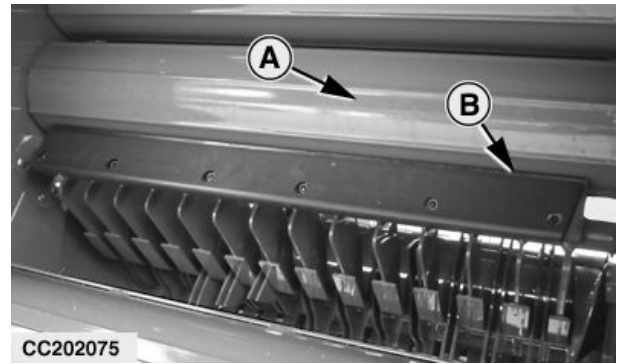
Specification

Scraper Fixing	
Screws—Torque.....	111 N·m (82 lb·ft)

9. Install deflector (E), bushings (F) and tighten screws (G) to specified torque:

Specification

Deflector Fixing	
Screws—Torque.....	111 N·m (82 lb·ft)



A—Roll (No. 13)
 B—Scraper
 C—Scraper Fixing Screw
 D—Scraper Fixing Screw
 E—Deflector

F—Bushing
 G—Deflector Fixing Screw
 H—Eccentric
 I—Hexagonal Shape
 J—Space

NB02380,0000183 -19-07OCT16-1/1

CC202075 —UN—12APR13

CC283549 —UN—05SEP16

CC283550 —UN—05SEP16

Adjust Strippers of Rolls (No. 13, No. 14 and No. 15)

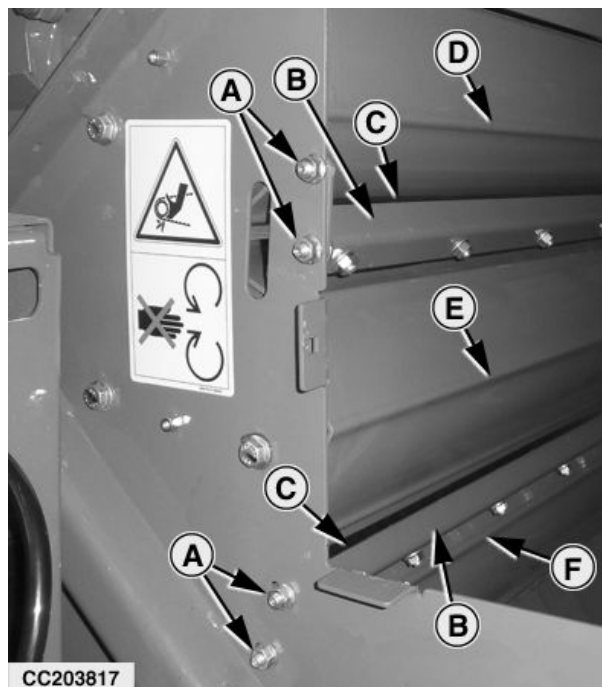
NOTE: Twine box removed for illustration purposes.

1. Loosen fixing screws (A) on both sides.
2. Adjust brackets (B) so that rubber bands (C) are positioned as close as possible to the rolls (D), (E) and (F) without contact all across their width.
3. Tighten fixing screws (A) on both sides.

NOTE: Rubber bands (C) can be replaced.

A—Fixing Screw
B—Bracket
C—Rubber Band

D—Roll No. 15
E—Roll No. 14
F—Roll No. 13



CC203817—UN—10OCT13

OUCC006,0001AC2 -19-23AUG13-1/1

Remove and Install Net Knife

CAUTION: Prevent personal injury by wearing gloves to handle net knife.

1. Note position of knife (B) cutting edge and fixing screws (A) for reinstallation.
2. Extend net actuator so that fixing screws (A) are fully accessible, then disconnect actuator plug.
3. Remove fixing screws (A) on each side of knife (B).
4. Remove knife (B).
5. Install knife (B) in the same position as before removal.

IMPORTANT: Make sure that knife (B) is correctly centered in relation to counter-knife (E).

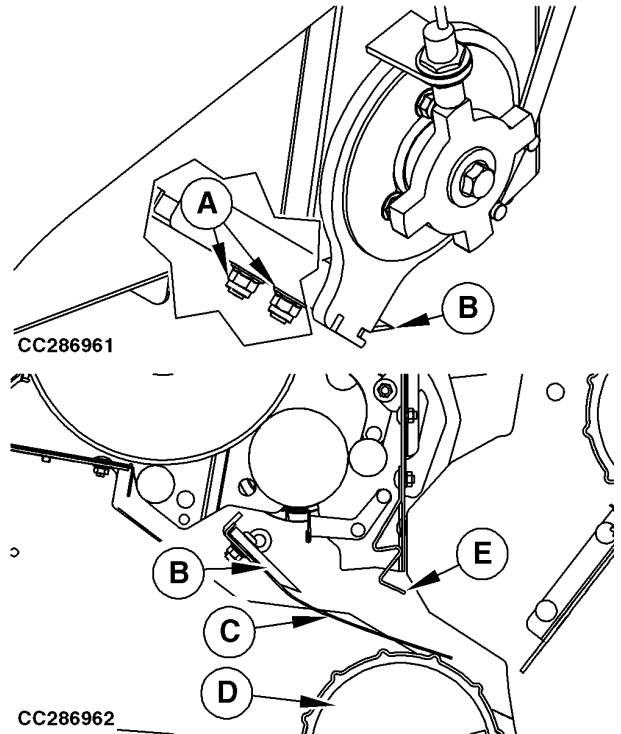
6. Tighten fixing screws (A) on both sides.

IMPORTANT: Make sure that rubber net guides (C) are over the roll (D) as shown.

7. Reconnect actuator plug and retract actuator.
8. Adjust counter-knife position. See [Adjust Counter-Knife Position](#) in this section.

A—Screw
B—Knife
C—Rubber Net Guide

D—Roll
E—Counter-Knife



NB02380,00001A1 -19-11OCT16-1/1

TSS288 —UN—23AUG88

CC286961 —UN—18JUL16

CC286962 —UN—18JUL16

Sharpen Net Knife

⚠ CAUTION: Prevent personal injury by wearing gloves to handle net knife.

1. Remove any residue from beveled edge.
2. Clamp knife to a bench or table.
3. Draw-file the beveled edge maintaining a 25° angle.
4. Keep the sharpened edge straight, within 1 mm (0.04 in.).



E36336—UN—18DEC91

NB02380,000043E -19-19JUL17-1/1

Net Binding Device Adjustment List

The following adjustments should be carried out when net cut or net binding problems occur during field operation.

The following list includes different tests and adjustments to carry out in this order:

1. Check galvanized roll straightness.
2. Adjust counter-knife position.

3. Adjust plastic rollers.
4. Adjust rubber roll brake.
5. Adjust net feeding sensor.

NOTE: When all test results are OK, the net binding device is then optimized for good field operation.

CC03745,000123C -19-09AUG17-1/1

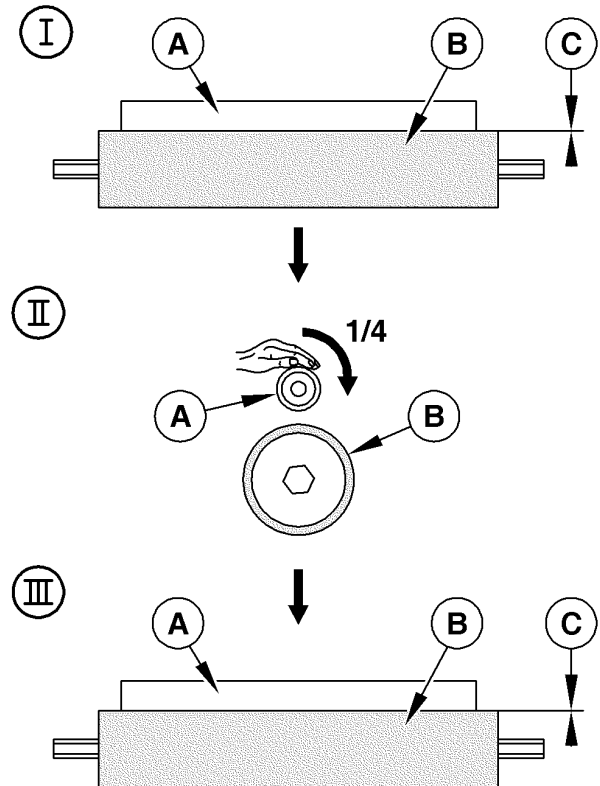
Check Galvanized Roll Straightness

1. Remove net roll.
2. Release band break.
3. Check contact (C) between galvanized roll (A) and rubber roll (B).
4. Turn galvanized roll (A) a quarter turn by hand.
5. Check contact (C) again.
6. Install net roll.

If test is not OK, see your John Deere dealer.

A—Galvanized Roll
B—Rubber Roll

C—Contact



CC1028981

CC1028981—UN—22DEC06

NB02380,00001E7 -19-18OCT16-1/1

Adjust Net Roll Deflector

IMPORTANT: A bad adjustment may result in net feeding problems.

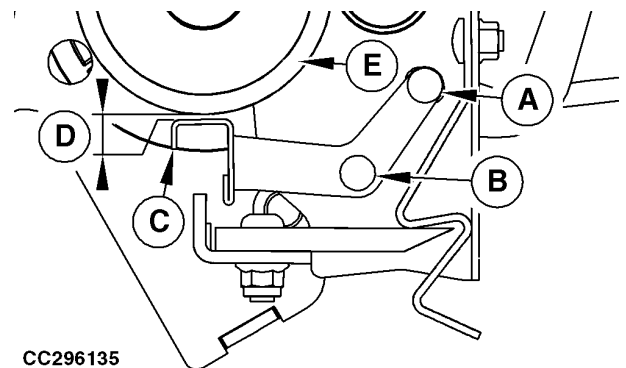
1. Check if the distance (D) between net roll deflector (C) and rubber roll (E) is within specification.

Specification

Net Roll Deflector-to-
Rubber Roll—Distance.....2—4 mm
(0-3/32—0-5/32 in)

If the distance is not within specification, go to next step to adjust net roll deflector.

2. Loosen screws (A) and (B) on both sides.
3. Raise the net roll deflector (C) until it contacts the frame on both sides.
4. Tighten screws (A) and (B) on both sides then go to step 1.



CC296135

A—Screw
B—Screw
C—Net Roll Deflector

D—Distance
E—Rubber Roll

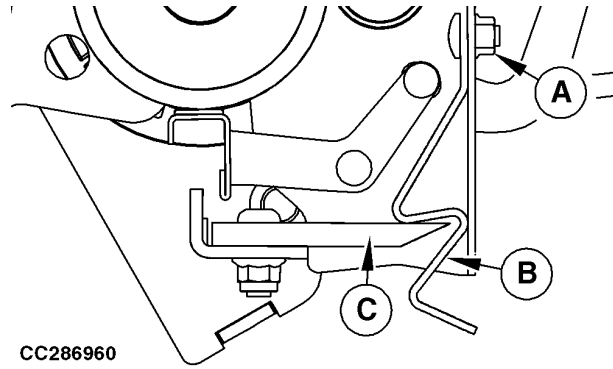
CC296135—UN—01DEC16

NB02380,00001E6 -19-05OCT16-1/1

Adjust Counter-Knife Position

IMPORTANT: A bad adjustment may result in net cut problems.

1. Check if the counter-knife (B) is in contact with knife (C).
2. If necessary, go to next step to adjust counter-knife position.
3. Retract net actuator.
4. Disconnect actuator.
5. Loosen nuts (A) on both sides.
6. Put counter-knife (B) in contact with knife (C) on both sides.
7. Tighten nuts (A) on both sides.
8. Connect actuator.
9. Extend and retract net actuator and check contact between knife (C) and counter-knife (B).



A—Nut
B—Counter-Knife

C—Knife

NB02380,00001A0 -19-07OCT16-1/1

Adjust Plastic Rollers

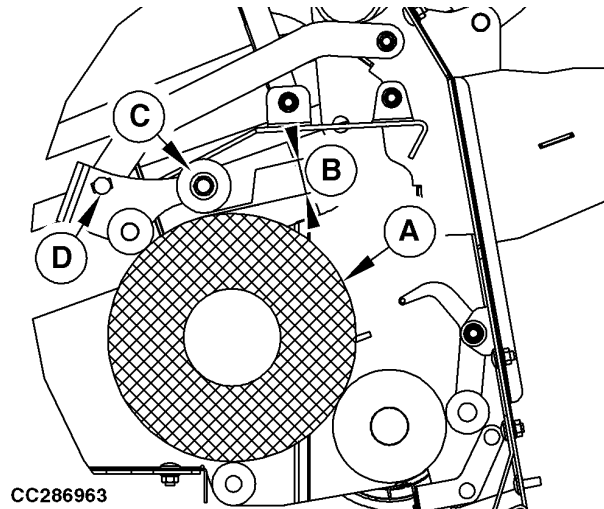
1. Position a full net roll (A) under plastic roller (C), as shown. See Load Net Roll in Preparing the Baler section.
2. Check that gap (B) between net roll (A) and plastic rollers (C) is within specification:

Specification

Net Roll-to-Plastic
Rollers—Gap.....2—4 mm
(1/16—5/32 in)

IMPORTANT: Plastic rollers (C) must not be in contact with net roll (A). Specified gap (B) is given for a full net roll.

3. If necessary, go to next step to adjust plastic rollers.
4. Loosen screw (D) on both sides.
5. Adjust plastic roller (C) to obtain gap (B).
6. Tighten screw (D) on both sides.



A—Net Roll
B—Gap

C—Plastic Roller
D—Screw

NB02380,00001A2 -19-11OCT16-1/1

Adjust Rubber Roll Brake

IMPORTANT: Before adjusting rubber roll brake, be sure that: Counter-knife position is correctly adjusted. See **Adjust Counter-Knife Position** in this section.

1. Check resisting torque (net feeding phase) as follows:
 - a. Extend actuator (A) with monitor to allow the brake crank (B) to be free (actuator in mid position).
 - b. Disconnect actuator (A).
 - c. On left side, turn screw (D) clockwise to check if resisting torque is within specification:

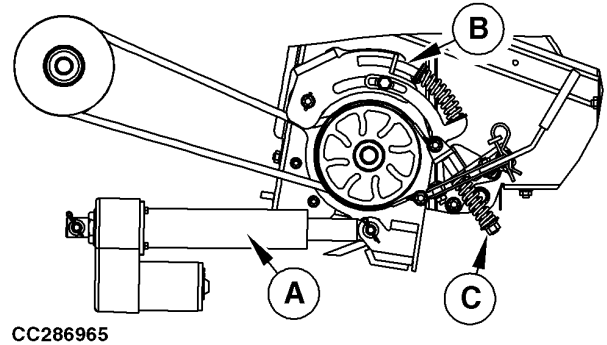
Specification

Resisting
Torque—Torque Turn..... 17—23 N·m
(13—17 lb·ft)

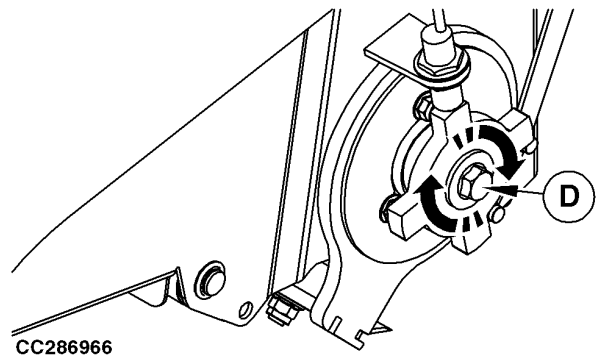
- If resisting torque is within specification, connect actuator (A) then go to step 2.
- If resisting torque is not within specification, tighten screw (C) to increase torque or loosen to decrease torque then repeat from step c.

A—Actuator
B—Brake Crank

C—Screw
D—Screw



Right Side Shown



Left Side Shown

NB02380,00001A3 -19-07OCT16-1/5

2. Check resisting torque (net cutting phase) as follows:
 - a. Fully retract the actuator (A) with monitor.
 - b. Disconnect actuator (A).
 - c. On left side, turn screw (C) clockwise to check if resisting torque is within specification:

Specification

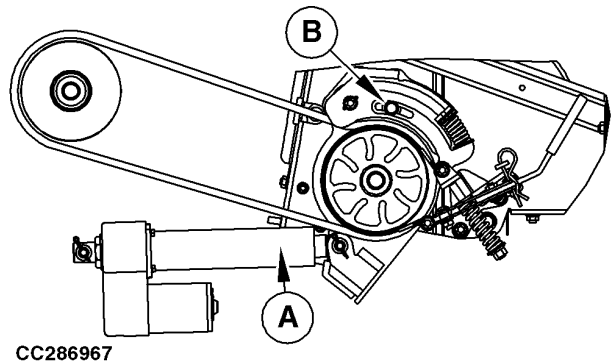
Resisting
Torque—Torque Turn..... 70—100 N·m
(52—74 lb·ft)

- If resisting torque is within specification, connect actuator (A) then go to step 3.
- If resisting torque is not within specification, go to next step.

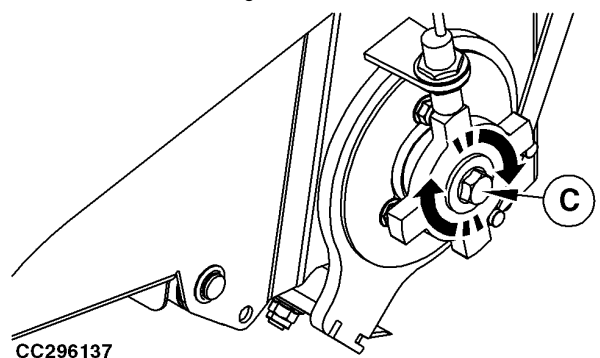
- d. Loosen screw (B).
- e. Connect actuator (A).

A—Actuator
B—Screw

C—Screw



Right Side Shown



Left Side Shown

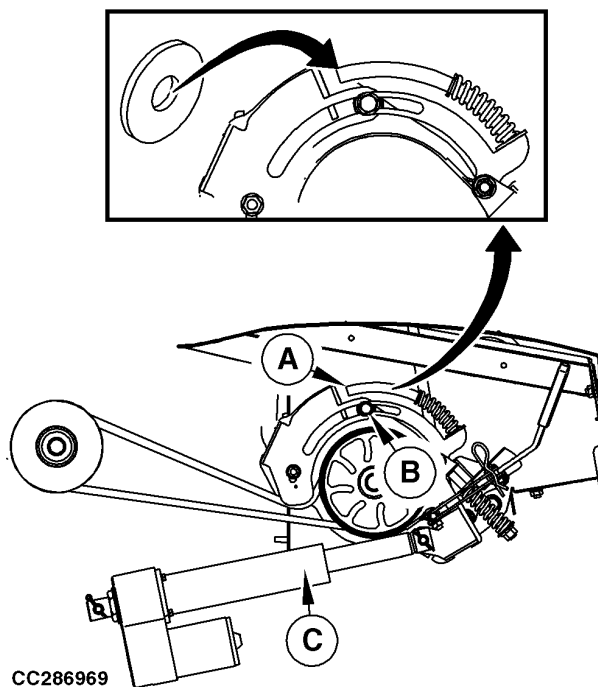
Continued on next page

NB02380,00001A3 -19-07OCT16-2/5

- f. Fully extend the actuator (C) with monitor.
- g. Disconnect actuator (C).
- h. Add washers on the brake crank (A) to increase torque or remove washers to decrease torque.
- i. Connect actuator (C).

A—Brake Crank
B—Screw

C—Actuator



CC286969

CC286969 —UN—05SEP16

NB02380,00001A3 -19-07OCT16-3/5

- j. Extend actuator (A) with monitor to allow the brake crank (B) to be free (actuator in mid position).
- k. Place and tighten the screw (C) at the specified distance (D).

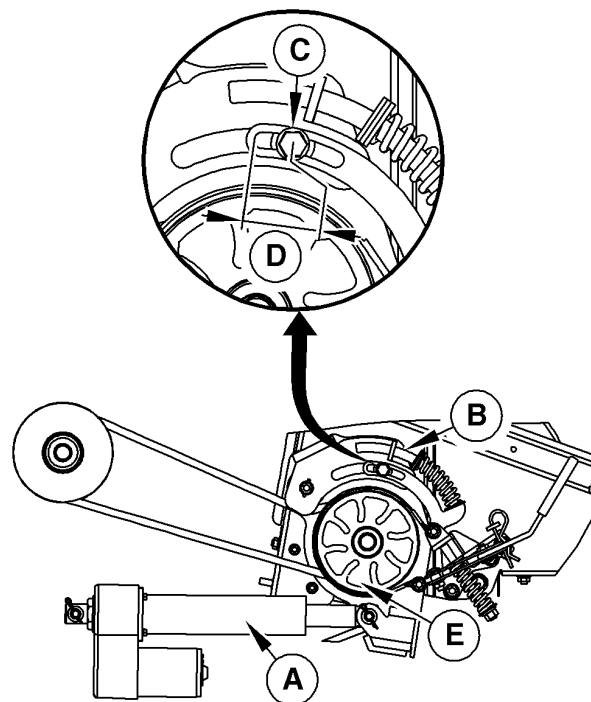
Specification

Screw—Distance.....15—19 mm
(5/8—3/4 in)

- l. Connect actuator (A).
- m. Go back to step 2a.

A—Actuator
B—Brake Crank
C—Screw

D—Distance
E—Pulley



CC286968

CC286968 —UN—02SEP16

Continued on next page

NB02380,00001A3 -19-07OCT16-4/5

3. Set resisting torque (net introduction phase) as follows:

- a. Extend actuator (A) with monitor to allow the brake crank (B) to be free (actuator in mid position).
- b. Disconnect actuator (A).
- c. Place and tighten the screw (C) at the specified distance (D).

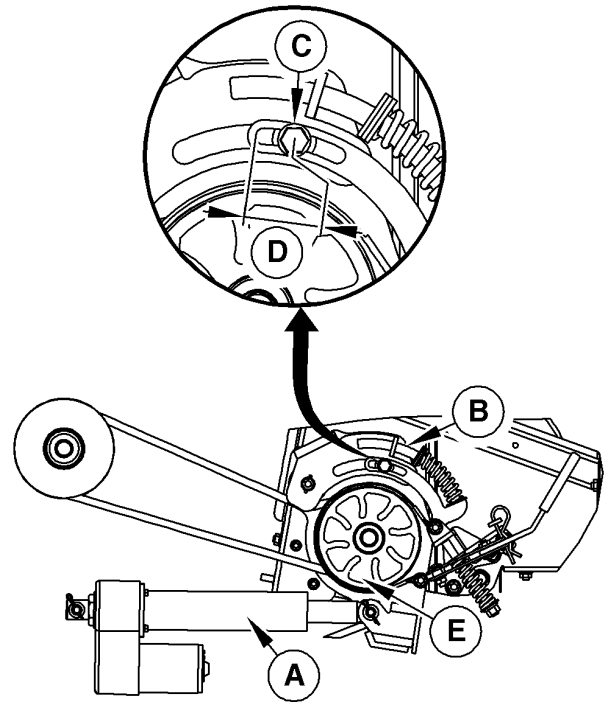
Specification

Screw—Distance.....15—19 mm
(5/8—3/4 in)

- d. Connect actuator (A).
- e. Retract actuator (A) with monitor.

A—Actuator
B—Brake Crank
C—Screw

D—Distance
E—Pulley



CC286968

CC286968 —UN—02SEP16

NB02380,00001A3 -19-07OCT16-5/5

Remove Net Wrapped Around Feed Rolls

⚠ CAUTION: Avoid injury from entanglement in moving rolls. Disengage PTO and shut off tractor before servicing.

If net wraps around feed rolls:

1. Remove spring locking pin (B).
2. Pull handle (A) to release band brake.
3. Open the net binding cover and place security device in lock position.
4. Gather the net free end.
5. Cut the net.

IMPORTANT: Do not cut net material from rubber roll. Any knife cuts in the rubber roll covering may result in more frequent wrapping around the rolls and may require roll replacement.

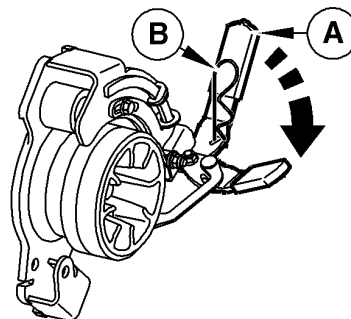
6. Pull the wrapped net by rotating the feed rolls in reverse direction.
7. Wipe out feed rolls and check for any sticky material. If necessary, rubber roll may be washed with soap and water.

IMPORTANT: Never use solvents to clean rubber roll and never apply talcum to rubber roll.

8. Route net through feed rolls, see [Route Net Through Feed Rolls](#) in Preparing the Baler Section.

A—Handle

B—Spring Locking Pin



CC283552



CC1029099



CC1029103

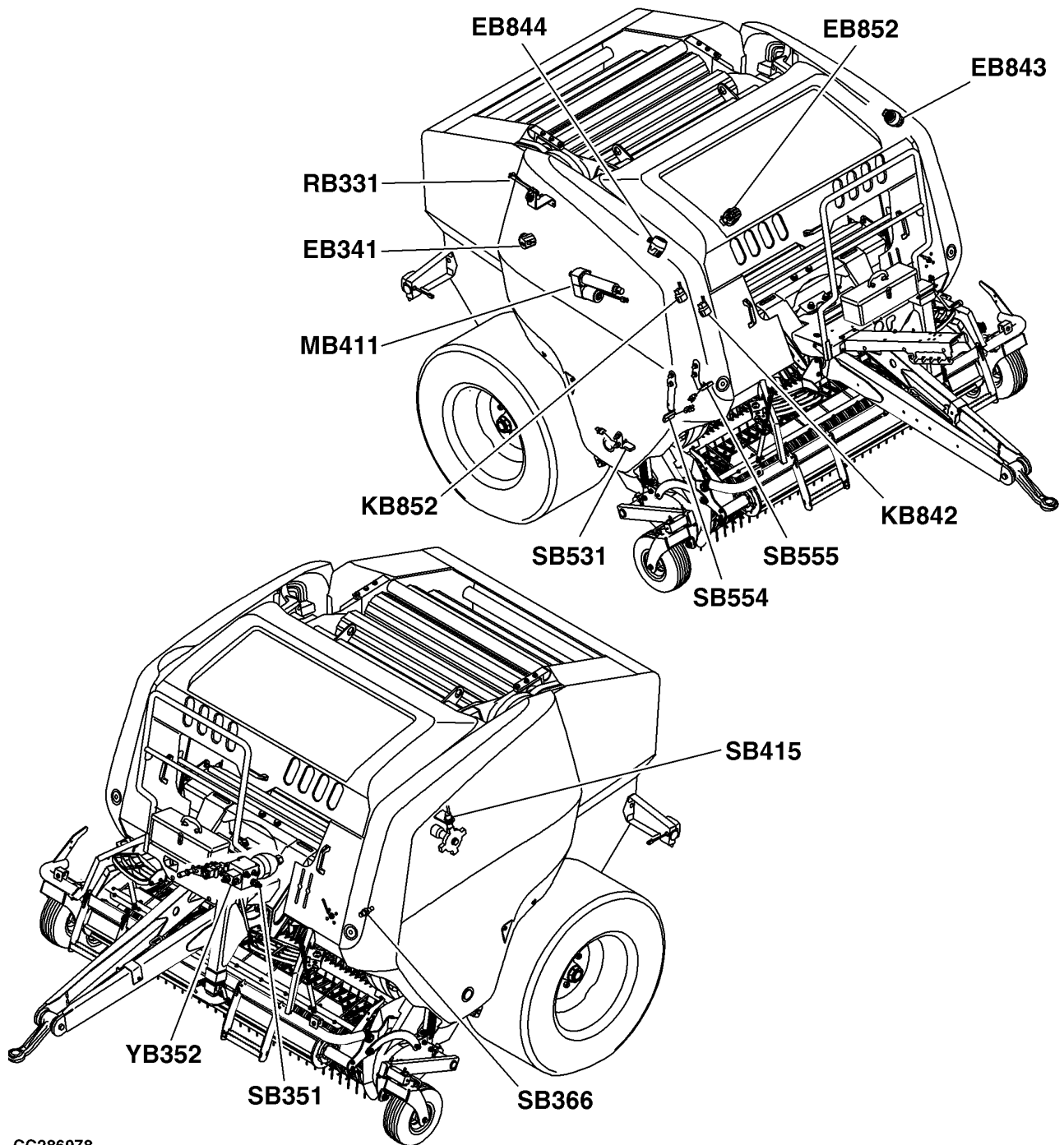
CC283552 —UN—18JUL16

CC1029099 —UN—22DEC06

CC1029103 —UN—22DEC06

CC03745.000123D -19-09AUG17-1/1

Locate Machine Electrical Components



CC286978

EB341—Video Camera
EB843—Left Side Door Light
EB844—Right Side Door Light
EB852—Net Binding Device Light
KB842—Side Door Light Relay

KB852—Net Binding Device Light Relay
MB411—Net Binding Device Actuator
RB331—Gate Position Potentiometer
SB351—Density Pressure Sensor
SB366—Baler Rotation Speed Sensor
SB415—Net Binding Device Feeding Sensor
SB531—Drop Floor Sensor
SB554—Sensor for Precutter Knife Set 1

SB555—Sensor for Precutter Knife Set 2
YB352—Proportional Density Solenoid Valve

CC03745,000123E -19-09AUG17-1/1

CC286978 —UN—12OCT16

Identify Sensor Detection Area

To ensure a proper detection of the target by the sensor, check that sensor detection area (C) is correctly oriented to the target. Sensor detection area (C) is located only on the same side as both spot facings (B).

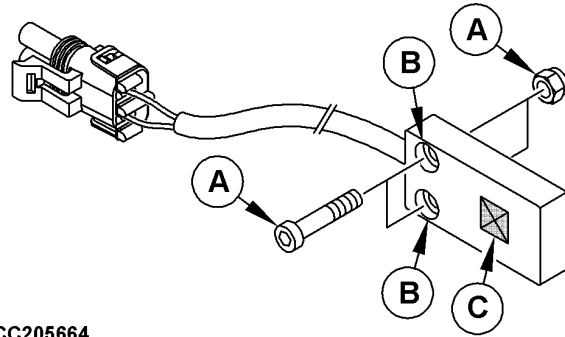
If sensor has been replaced or fixing screws (A) have been removed, tighten fixing screws (A) to specified torque:

Specification

Sensor Fixing	
Screws—Torque.....	1.5 N·m (1.1 lb.-ft.)

A—Fixing Screw
B—Spot Facing

C—Sensor Detection Area



CC205664

CC205664 —UN—10OCT13

OUC006,0001B20 -19-25SEP13-1/1

Adjust Baler Rotation Speed Sensor SB366 (If Equipped)

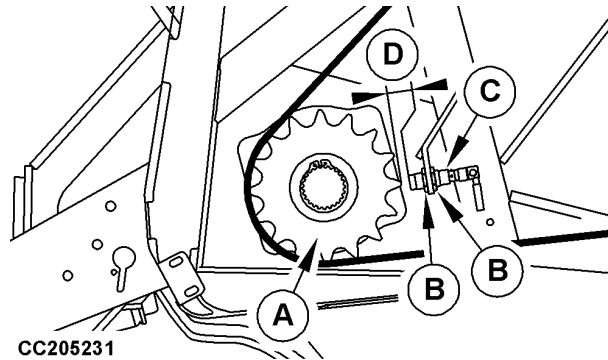
CAUTION: DO NOT TAKE RISKS! Never use any type of tool or spanner on shaft while tractor engine is running. Shut off tractor engine, remove key and wait for moving parts to come to a standstill. Always remove tool from shaft as soon as you have finished using it.

1. Rotate baler by hand so that the gear (A) is positioned as shown. See Rotate Baler by Hand in Operating the Baler—General Purposes section.
2. Check if distance (D) is within specification.
3. If necessary, go to next step to adjust distance (D).
4. Loosen lock nuts (B) and slide sensor (C) to obtain specified distance (D) between sensor (C) and gear (A).

Specification

Baler Rotation	
Speed Sensor-to-	
Gear—Distance.....	1.5—2.5 mm (1/16—3/32 in)

5. Check that center line of sensor (C) is aligned with center line of gear (A).



CC205231

A—Gear
B—Lock Nuts

C—Sensor
D—Distance

6. Tighten lock nuts (B) to specified torque.

Specification

Sensor Lock	
Nuts—Torque.....	23 N·m (17 lb.-ft)

7. Check sensor detection with monitor. See Test Sensors and Switches in Baler Application Service section.

NB02380,0000176 -19-28NOV16-1/1

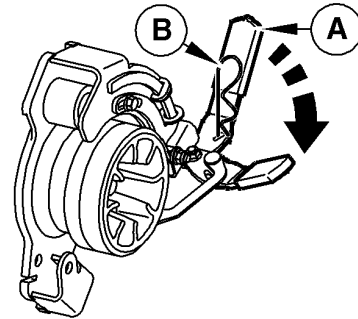
Adjust Net Binding Device Feeding Sensor SB415

CAUTION: DO NOT TAKE RISKS! Never use any type of tool or spanner on shaft while tractor engine is running. Shut off tractor engine, remove key and wait for moving parts to come to a standstill. Always remove tool from shaft as soon as you have finished using it.

1. Remove spring locking pin (B).
2. Pull handle (A) to release band brake.

A—Handle

B—Spring Locking Pin



CC283552

CC283552 —UN—18.JUL.16

CC03745,000123F -19-09AUG17-1/3

3. Turn disk (A) by hand to position it as shown.
4. Check if distance (D) is within specification.
5. If necessary, go to next step to adjust distance (D).
6. Loosen lock nuts (B) and slide sensor (C) to obtain specified distance (D), between disk (A) and sensor (C).

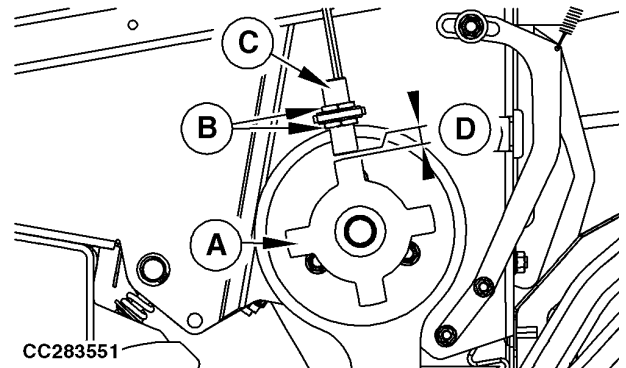
Specification

Net Feeding Sensor-to-Disk—Distance.....2—4 mm
(3/32—5/32 in)

7. Tighten lock nuts (B) to specified torque.

Specification

Sensor Lock Nut—Torque.....23 N·m
(17 lb·ft)



CC283551

A—Disk
B—Sensor Lock Nut

C—Sensor
D—Distance

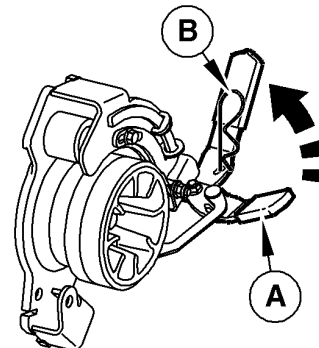
CC283551 —UN—18.JUL.16

CC03745,000123F -19-09AUG17-2/3

8. Engage band brake by pushing handle (A). Secure with spring locking pin (B).
9. Check sensor detection with monitor. See [Test Sensors and Switches](#) in Baler Application Service Section.

A—Handle

B—Spring Locking Pin



CC283553

CC283553 —UN—18.JUL.16

CC03745,000123F -19-09AUG17-3/3

Adjust Drop Floor Sensor SB531

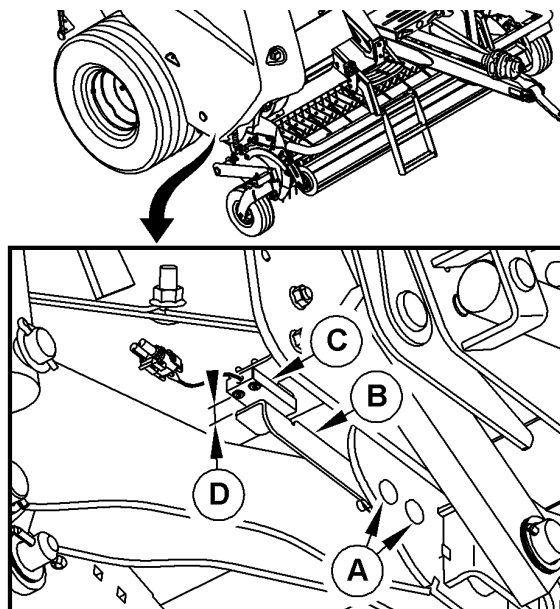
To adjust drop floor sensor (C), proceed as follows:

1. Fully raise drop floor. See Unplug Pickup in Operating Baler Application section.
2. Engage tractor park brake, place transmission in PARK, shut off tractor engine and remove key.
3. Check that sensor (C) is mounted properly. See Identify Sensor Detection Area in this section.
4. Check if distance (D) is within specification.
5. If necessary, go to next step to adjust distance (D).
6. Loosen cap screws (A).
7. Position and maintain target (B) in order to obtain specified distance (D) between sensor (C) and target (B).

Specification

Drop Floor Sensor-to-
Target—Distance.....0.5—2 mm
(1/32—3/32 in)

8. Retighten cap screws (A).
9. Check sensor detection with monitor. See Test Sensors and Switches in Baler Application Service section.



CC205233

A—Cap Screw
B—Target

C—Drop Floor Sensor
D—Distance

CC205233 —UN—10OCT13

NB02380,0000177 -19-08NOV16-1/1

Adjust Precutter Knife Sensors SB554 and SB555

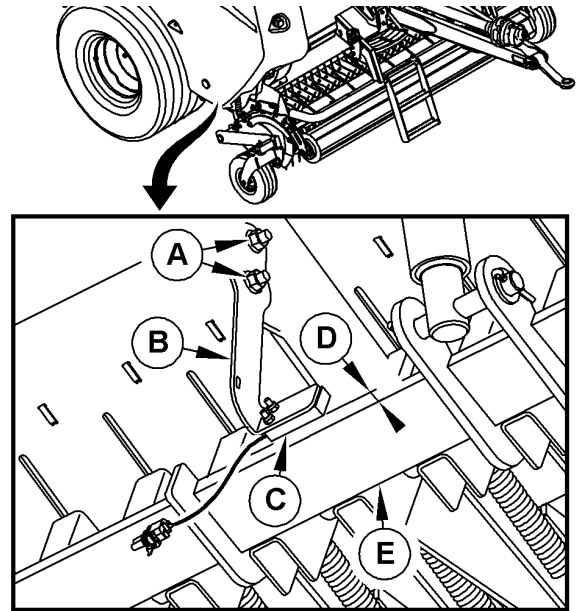
Sensor for Precutter Knife Set 1 (Baler with Precutter, 13 or 25 Knives):

1. Engage precutter knives. See Retract or Engage Precutter Knives in Operating Baler Application section.
2. Engage tractor park brake, place transmission in PARK, shut off tractor engine and remove key.
3. Close precutter knife shut-off valves. See Replace Precutter Knives in this section.
4. Check that sensor (C) is mounted properly. See Identify Sensor Detection Area in this section.
5. Loosen cap screws (A).
6. Position and maintain sensor bracket (B) in order to obtain specified distance (D) between sensor (C) and bar (E).

Specification

Sensor to
Bar—Distance.....0.5—2 mm
(1/32—3/32 in)

7. Retighten cap screws (A).
8. Check sensor detection with monitor. See Test Sensors and Switches in Baler Application Service section.



CC205234

Precutter Knife Set 1 with 13 Knives

A—Cap Screw
B—Sensor Bracket
C—Precutter Knife Sensor (Set 1)
D—Distance
E—Precutter Knife Selection Bar

Continued on next page

NB02380,00001F0 -19-29NOV16-1/2

CC205234—UN—10OCT13

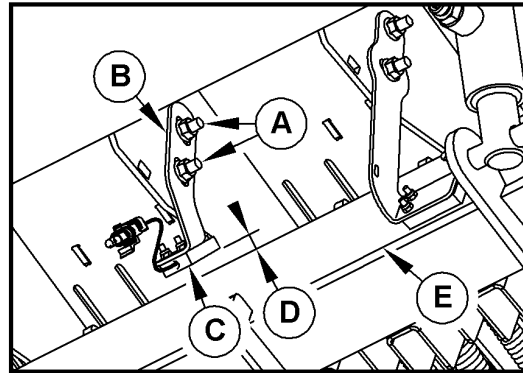
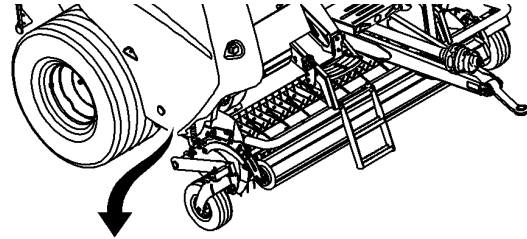
Sensor for Precutter Knife Set 2 (Baler with Precutter, 25 Knives only):

1. Engage precutter knives. See Retract or Engage Precutter Knives in Operating Baler Application section.
2. Engage tractor park brake, place transmission in PARK, shut off tractor engine and remove key.
3. Close precutter knife shut-off valves. See Replace Precutter Knives in this section.
4. Check that sensor (C) is mounted properly. See Identify Sensor Detection Area in this section.
5. Loosen cap screws (A).
6. Position and maintain sensor bracket (B) in order to obtain specified distance (D) between sensor (C) and tube (E).

Specification

Sensor to
Tube—Distance.....0.5—2 mm
(1/32—3/32 in)

7. Retighten cap screws (A).
8. Check sensor detection with monitor. See Test Sensors and Switches in Baler Application Service section.



CC205235

Precutter Knife Set 2 with 25 Knives

A—Cap Screw
B—Sensor Bracket
C—Precutter Knife Sensor (Set 2)

D—Distance
E—Precutter Knife Selection Tube

NB02380,00001F0 -19-29NOV16-2/2

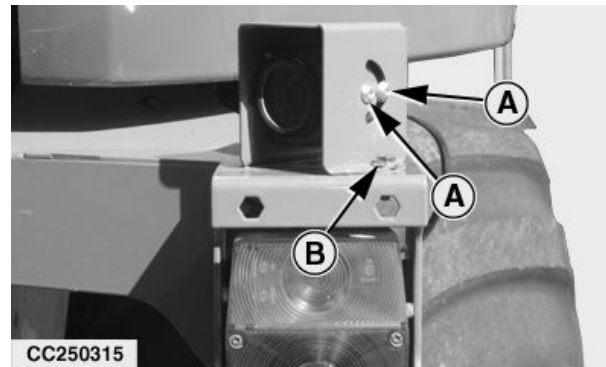
CC205235—UN—10OCT13

Adjust Orientation of Camera EB341

1. Loosen screws (B) and (A) on both sides.
2. Adjust the orientation of the camera.
3. Tighten screws (B) and (A) on both sides.

A—Screws

B—Screw



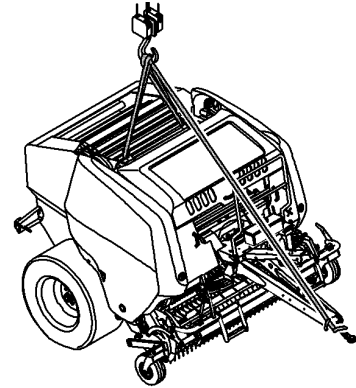
CC250315

DC82261,000063D -19-19OCT15-1/1

CC250315—UN—19OCT15

Round Baler Hanging Points

If you need to move the round baler without attaching it to a tractor, use the hanging points shown.



CC283554

CC283554 —UN—18JUL16

NB02380,0000185 -19-13JUN16-1/1

Remove and Install Wheel

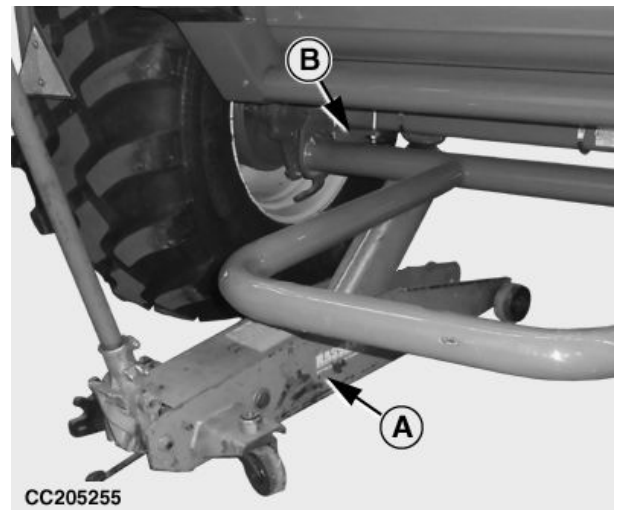
1. Engage park brake and/or place transmission in PARK, shut off tractor engine and remove key.
2. Slightly loosen wheel nuts.
3. Position jack (A) under axle as close as possible to axle clamp (B) avoiding contact as shown.
4. Raise wheel off ground with jack (A).
5. Install stand to secure baler.
6. Remove wheel nuts and wheel.
7. Install wheel and fully screw in nuts manually.
8. Remove stand, lower the baler and remove jack (A).
9. Tighten wheel nuts diagonally to the following specification:

Specification

Wheel Nuts—Torque.....270 N·m
(200 lb.-ft.)

10. Check tire inflation. See [Tire Inflation](#) in Preparing the Baler section.

IMPORTANT: Whenever a wheel has been removed and installed, check wheel nut torque at intervals specified in Break-In Period section.



A—Jack

B—Axle Clamp

CC205255 —UN—25OCT13

OUCC006,0001AE1 -19-04SEP13-1/1

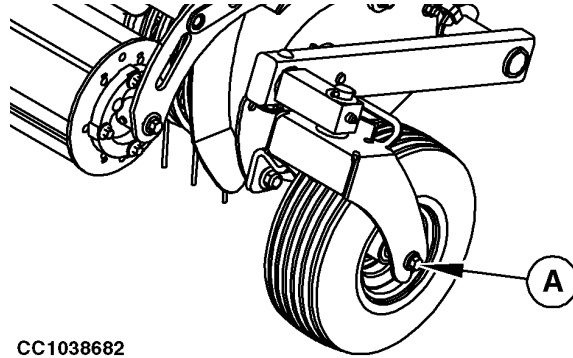
Repair Gauge Wheel

If gauge wheel fixing screw (A) is loosened for standard or caster gauge wheel repair, replace fixing screw (A). See your John Deere dealer to obtain appropriate screw (A).

Tighten gauge wheel fixing screw to the following specification:

	Specification
Gauge Wheel Fixing	
Screw—Torque.....	110 N·m (81 lb.-ft.)

A—Gauge Wheel Fixing Screw



Caster Gauge Wheel Shown

CC1038682—UN—14NOV12

OUC006,00019BA -19-14NOV12-1/1

Baler Application Service

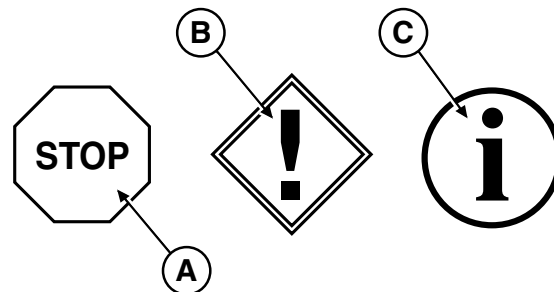
Warning Screens

The monitor supports caution and warning messages to inform about certain behaviors or error conditions in the system. Warning screens allow to monitor system operational problems.

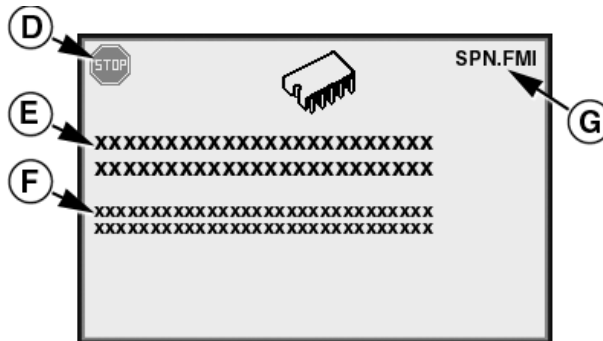
WARNING:

A WARNING covers the full screen and is used to inform about critical malfunctions in the system which requires the full attention of the operator. The screen is designed as follows:

- Icon (D) and the associated tone define the importance of the warning:
 - Icon (A) indicates that the machine has detected a serious malfunction which requires immediate action or damage to the machine may occur. Stop engine or system immediately.
 - Icon (B) indicates that the machine has detected a problem which requires action. The machine may be damaged or have significant performance reduction if it is not serviced or repaired.
 - Icon (C) indicates that the machine has detected a fault in a system or component. The machine can continue to operate without damage, however there may be degraded performance of certain functions.
- Keyword strings (E) help to determine the importance and the cause of the warning and briefly define the area of malfunction.
- The Diagnostic Trouble Code (G) in the upper right corner is made of SPN.FMI (Suspect Parameter Number.Failure Mode Identifier). This code is a language independent code which helps to identify more details for the active warning. Refer to the Diagnostic Trouble Code List in this section to get



ZX026095



CC1031855

- | | |
|---------------------------|---------------------------------|
| A—Stop Engine/System Icon | E—Keyword Strings |
| B—Service Alert Icon | F—Text Strings |
| C—Information Icon | G—Diagnostic Trouble Code (DTC) |
| D—Warning Icon | |

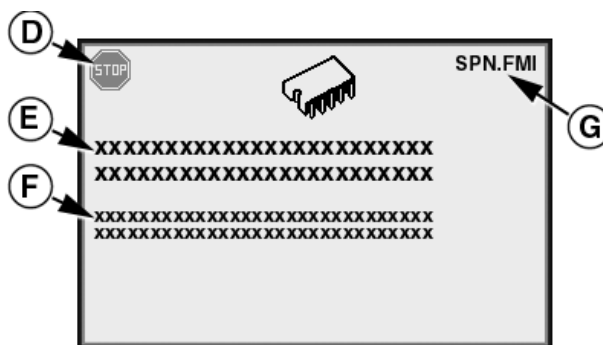
specific operational problem and recommended corrective action.

OUCC006,000158A -19-15OCT09-1/2

- Text strings (F) provide more details about the cause of the warning and possible corrective action.
- The warning screen will disappear automatically when the machine detects the correction of the malfunction.

D—Warning Icon
E—Keyword Strings

F—Text Strings
G—Diagnostic Trouble Code (DTC)



CC1031855

OUCC006,000158A -19-15OCT09-2/2

Recent Problems

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.



CC277966

TL81334,0000059 -19-07JUL17-1/5

2. Select Baler Diagnostic softkey.

CC1031614 —UN—16SEP09



CC1031614

TL81334,0000059 -19-07JUL17-2/5

3. Select Next Page or Previous Page softkey to access alternative pages (2/X, 3/X, etc.).

CC277967 —UN—22SEP16



CC277967

TL81334,0000059 -19-07JUL17-3/5

4. In the recent problem page, the history of the DTCs is updated each time a new DTC is generated. Recent problem text (B) gives a brief description of the problem.

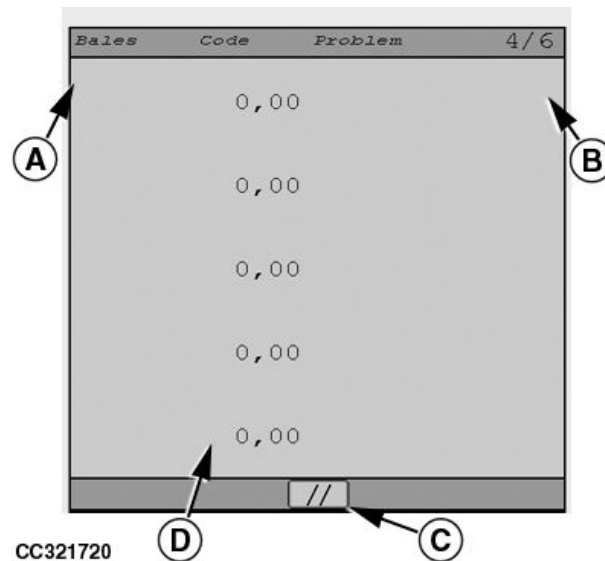
Up to 15 DTCs can be stored and are displayed in historical order. If a 16th DTC needs to be stored, the oldest DTC is deleted.

The number of bale (A) is the timestamp of when the DTC appears (number before dot) and the order of the DTC for this bale (number after dot).

NOTE: For example: If the number of bale (A) field is 3520.002 for a DTC, the given DTC appears at the 3520th bale and it is the second DTC for this bale.

The DTC (D) defines the issue. It is made of SPN.FMI (D) (Suspect Parameter Number.Failure Mode Indicator). See [Diagnostic Trouble Code List](#) in this section.

5. On last DTC page, select Clear recent Problem List icon (C) to clear the recent problem list.



CC321720

CC321720 —19—30JUN17

A—Bale Number
B—Recent Problem Text

C—Clear Recent Problem List
D—Diagnostic Trouble Code (DTC)

Continued on next page

TL81334,0000059 -19-07JUL17-4/5

6. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

TL81334,0000059 -19-07JUL17-5/5

Test Tractor Battery Voltage

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.



CC277966

TL81334,000005A -19-06JUL17-1/5

2. Select Baler Diagnostic softkey.

CC1031614 —UN—16SEP09



CC1031614

TL81334,000005A -19-06JUL17-2/5

3. Select Next Page or Previous Page softkey to access page 5/6.

CC277967 —UN—22SEP16



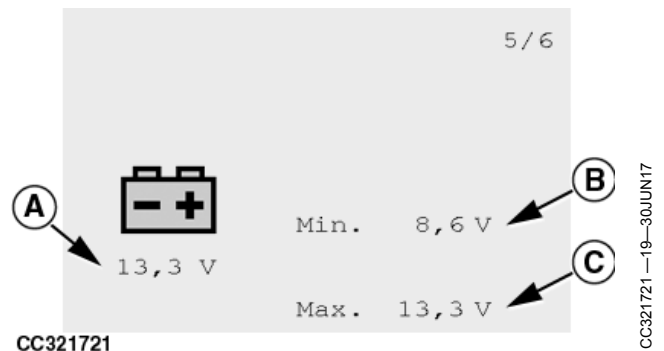
CC277967

TL81334,000005A -19-06JUL17-3/5

4. On page 5/6, values (A), (B) and (C) indicate the tractor battery voltage. The minimum (B) and maximum (C) battery voltage values are reinitialized each time the monitor is switched off.

A—Current Battery Voltage
B—Minimum Battery Voltage

C—Maximum Battery Voltage



TL81334,000005A -19-06JUL17-4/5

5. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

TL81334,000005A -19-06JUL17-5/5

Diagnostic Trouble Code List

Suspect parameter numbers and failure mode indicators (SPN.FMI) are given in the following table:

Each time a diagnostic trouble code about a solenoid valve is displayed, the component is deactivated until next power cycle.

NOTE: If a diagnostic trouble code displayed is not listed below, see your John Deere dealer.

SPN.FMI	Description	Comment
RBC 168.16	Battery voltage too high (above 15.8 volts).	Check tractor battery and alternator. See Test Tractor Battery Voltage in this section.
RBC 168.18	Battery voltage too low (below 11.2 volts).	Check wires and connectors. Check tractor battery and alternator. See Test Tractor Battery Voltage in this section.
RBC 1563.12	Control unit ID error.	This control unit cannot be installed on this machine. Check if proper control unit is installed. Check proper harness connection to control unit. See your John Deere dealer.
RBC 2394.04	Net binding device light relay short to ground.	Check wires and connectors. Check net binding device light relay.
RBC 2394.05	Net binding device light relay open load.	Check wires and connectors. Check net binding device light relay.
RBC 3025.04	Automatic greasing system relay short to ground.	Check wires and connectors. Check automatic greasing system relay.
RBC 3025.05	Automatic greasing system relay open load.	Check wires and connectors. Check automatic greasing system relay.
RBC 3509.03	Sensor supply voltage too high.	Check wires and connectors.
RBC 3509.04	Sensor supply voltage too low.	Check wires and connectors.
RBC 3755.16	Baler drive roll speed above proper operation.	Binding process stopped due to high drive roll speed. Ensure that baler is operated at appropriate PTO speed.
RBC 3755.18	Baler drive roll speed below proper operation.	Binding process stopped due to low drive roll speed. Ensure that baler is operated at appropriate PTO speed. Check sensor adjustment. See Adjust Baler Rotation Speed Sensor SB366 (If Equipped) in Service section. If baler rotation speed sensor is faulty, see Baler Rotation Speed Sensor (If Equipped) in this section to disable the sensor.
RBC 3761.03	Drop floor solenoid valve open load or short to battery.	Check wires and connectors. Check drop floor solenoid valve.
RBC 3761.04	Drop floor solenoid valve short to ground.	Check wires and connectors. Check drop floor solenoid valve.
RBC 3762.03	Solenoid valve for precutter knife set 1 open load or short to battery.	Check wires and connectors. Check solenoid valve for precutter knife set 1.
RBC 3762.04	Solenoid valve for precutter knife set 1 short to ground.	Check wires and connectors. Check solenoid valve for precutter knife set 1.
RBC 3763.03	Pickup solenoid valve open load or short to battery.	Check wires and connectors. Check pickup solenoid valve.
RBC 3763.04	Pickup solenoid valve short to ground.	Check wires and connectors. Check pickup solenoid valve.
RBC 3764.07	No movement of the net actuator. Net actuator faulty or jammed.	Check that there is no interference of net binding device. Check net actuator. See your John Deere dealer.
RBC 3764.14	Net actuator stalled.	Check that there is no interference of net binding device. Check net actuator. See your John Deere dealer.
RBC 3774.0	Gate position sensor out of range high	Check gate position potentiometer RB331 Calibrate gate position, see Calibrate Gate Position Potentiometer RB331 in Baler Application Service section.
RBC 3774.1	Gate position sensor out of range low	Check gate position potentiometer RB331 Calibrate gate position, see Calibrate Gate Position Potentiometer RB331 in Baler Application Service section.
RBC 3774.03	Gate position potentiometer shorted high.	Check gate position potentiometer and its lever. Check wires and connectors. See your John Deere dealer.

Continued on next page

TL81334,0000049 -19-09AUG17-1/3

Baler Application Service

SPN.FMI	Description	Comment
RBC 3774.04	Gate position potentiometer shorted to ground.	Check gate position potentiometer and its lever. Check wires and connectors. See your John Deere dealer.
RBC 3774.13	Gate position potentiometer not calibrated.	Calibrate gate position, see Calibrate Gate Position Potentiometer RB331 in Baler Application Service section.
RBC 3778.14	Unexpected movement of the precutter knife set 1 from the previous state.	Check that precutter knives are in the desired position. Adjust precutter knife set 1 sensor, see Adjust Precutter Knife Sensors SB554 and SB555 in Service section. Check sensor for precutter knife set 1.
RBC 3779.14	Oversize bale.	Decrease target bale diameter. Bind and eject current bale as soon as possible.
RBC 3781.07	No net feeding.	Engage PTO before binding if not engaged. Check drive belt of rubber roll. Check net feeding sensor adjustment. See Adjust Net Binding Device Feeding Sensor SB415 in Service section. Check net binding device.
RBC 3781.08	Net stopped feeding.	Replace net roll. Check net routing. See Load Net Roll in Preparing the Baler section. Net not caught by the bale. Check that PTO is engaged and at correct speed. Check net binding device.
RBC 3781.11	Net feeding unexpectedly.	Check that net band brake is engaged. Check that net actuator is fully retracted. Extend and then retract actuator to manually cut net.
RBC 3781.14	Net not cut.	Extend and then retract actuator to manually cut net. Check net binding counterknife position. See Adjust Counter-Knife Position in Service section. Sharpen net knife. See Sharpen Net Knife in Service section.
RBC 517434.04	Side door light relay short to ground.	Check wires and connectors. Check side door light relay.
RBC 517434.05	Side door light relay open load.	Check wires and connectors. Check side door light relay.
RBC 521075.03	Solenoid valve for precutter knife set 2 open load or short to battery.	Check wires and connectors. Check solenoid valve for precutter knife set 2.
RBC 521075.04	Solenoid valve for precutter knife set 2 short to ground.	Check wires and connectors. Check solenoid valve for precutter knife set 2.
RBC 521075.14	Unexpected movement of the precutter knife set 2 from the previous state.	Check that precutter knives are in the desired position. Adjust precutter knife set 2 sensor, see Adjust Precutter Knife Sensors SB554 and SB555 in Service section. Check sensor for precutter knife set 2.
RBC 521078.11	Drop floor down	Check drop floor position. Check the Drop Floor Sensor SB533
RBC 521078.14	Unexpected movement of the drop floor from the previous state.	Check that the drop floor is in desired position. Adjust drop floor sensor, see Adjust Drop Floor Sensor SB531 in Service section. Check drop floor sensor.
RBC 521079.03	Density solenoid valve open load or short to battery.	Check wires and connectors. Check density solenoid valve.
RBC 521079.04	Density solenoid valve short to ground.	Check wires and connectors. Check density solenoid valve.
RBC 521086.14	Bale in chamber at power up.	Automatic binding cycle disabled for the current bale. Start binding cycle manually at desired bale diameter.
RBC 521127.03	Density pressure sensor shorted high.	Check wires and connectors. See your John Deere dealer.
RBC 521127.04	Density pressure sensor shorted to ground.	Check wires and connectors. See your John Deere dealer.
RBC 522022.02	Calibration mirror EEPROM, checksum failure on last power down.	Calibration EEPROM reset to default. Baler setup and calibration may be required.
RBC 522023.02	Field mirror EEPROM, checksum failure on last power down.	Field EEPROM reset to default. Baler setup and calibration may be required.
RBC 522024.02	User mirror EEPROM, checksum failure on last power down.	User EEPROM reset to default. Baler setup and calibration may be required.

Continued on next page

TL81334.0000049 -19-09AUG17-2/3

Baler Application Service

SPN.FMI	Description	Comment
RBC 522025.02	Automation mirror EEPROM, checksum failure on last power down.	Automation EEPROM reset to default. Baler setup and calibration may be required. See your John Deere dealer.
RBC 522026.02	Dealer mirror EEPROM, checksum failure on last power down.	Dealer EEPROM reset to default. Baler setup and calibration may be required. See your John Deere dealer.
RBC 522027.02	Factory mirror EEPROM, checksum failure on last power down.	Factory EEPROM reset to default. Baler setup and calibration may be required. See your John Deere dealer.
RBC 522028.02	Calibration EEPROM, checksum failure.	Acknowledge DTC message.
RBC 522028.12	Calibration EEPROM, checksum failure on last power down.	Acknowledge DTC message.
RBC 522029.02	Field EEPROM, checksum failure.	Acknowledge DTC message.
RBC 522029.12	Field EEPROM, checksum failure on last power down.	Acknowledge DTC message.
RBC 522030.02	User EEPROM, checksum failure.	Acknowledge DTC message.
RBC 522030.12	User EEPROM, checksum failure on last power down.	Acknowledge DTC message.
RBC 522031.02	Automation EEPROM, checksum failure.	Acknowledge DTC message.
RBC 522031.12	Automation EEPROM, checksum failure on last power down.	Acknowledge DTC message.
RBC 522032.02	Dealer EEPROM, checksum failure.	Acknowledge DTC message.
RBC 522032.12	Dealer EEPROM, checksum failure on last power down.	Acknowledge DTC message.
RBC 522033.02	Factory EEPROM, checksum failure.	Acknowledge DTC message.
RBC 522033.12	Factory EEPROM, checksum failure on last power down.	Acknowledge DTC message.
RBC 523108.13	Control unit output problem relating to net or twine binding device.	Net operation may have derated performance. Replace control unit at earliest convenience. See your John Deere dealer.
RBC 523836.18	Grease reservoir empty.	Refill grease reservoir. See Lubrication and Maintenance section.
RBC 524063.03	Net actuator short to battery.	Check wires and connectors.
RBC 524063.04	Net actuator short to ground.	Check wires and connectors.
RBC 524063.05	Net actuator open load.	Check that net actuator is correctly plugged. Check wires and connectors.

TL81334,0000049 -19-09AUG17-3/3

Test Sensors and Switches

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.



CC277966

JC87117,000029F -19-29NOV16-1/6

2. Select Baler Diagnostic softkey.

CC1031614 —UN—16SEP09



CC1031614

JC87117,000029F -19-29NOV16-2/6

3. Select Input Test softkey.

CC277969 —UN—22SEP16



CC277969

JC87117,000029F -19-29NOV16-3/6

4. The Input Test function is used to test sensors and switches.

For sensor location, see [Locate Machine Electrical Components](#) in Service section.

Description

- Symbol (A) shows the sensor or the switch status (deactivated or activated).
- Counter (B) informs the operator if a sensor or a switch has detected its target during a cycle.

Test Procedures

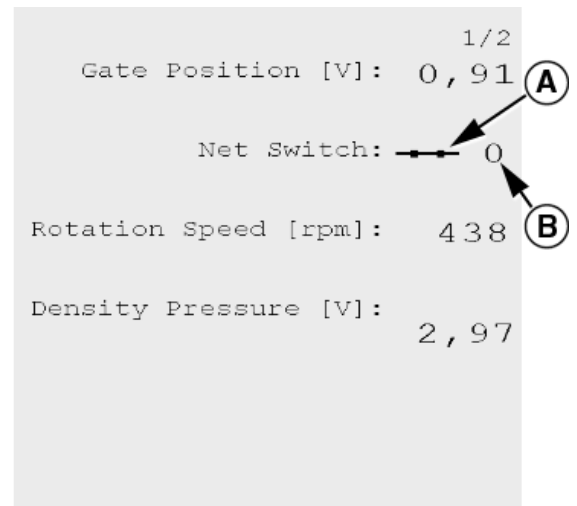
Check all sensors and targets are clean. Check the distance between sensor and target is correct. Activate sensors by placing a piece of steel in front of the sensor. The counter (B) is increased by one each time the sensor is activated or deactivated.

NOTE: Counter (B) is reset after each page switching.

NOTE: A LED located at the rear of some sensors lights up when sensors are activated.

If the test is not OK:

- Check that the pins of connectors are functional.



CC277975

CC277975 —19—21DEC16

A—Status Symbol

B—Counter

- Swap the failed sensor with another sensor on the machine (preferably the net feed sensor or the baler rotation speed sensor).
- If the two previous tests are not OK, see your John Deere dealer.

Continued on next page

JC87117,000029F -19-29NOV16-4/6

5. Select Next Page or Previous Page softkey to switch from one page to another.

CC277967 —UN—22SEP16



CC277967

JC87117,000029F -19-29NOV16-5/6

6. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

JC87117,000029F -19-29NOV16-6/6

Test Electro-Hydraulic Components

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.



CC277966

JC87117,00002A0 -19-29NOV16-1/9

2. Select Baler Diagnostic softkey.

CC1031614 —UN—16SEP09



CC1031614

JC87117,00002A0 -19-29NOV16-2/9

3. Select Output Test softkey.
4. The Output Test function is used to test electro-hydraulic components. To activate component, select and activate the desired icon.

CC277970 —UN—22SEP16



CC277970

CAUTION: During the test of electro-hydraulic components, parts of the machine will move. Before performing a test, ensure that operating area of the machine is clear from people or foreign objects.

IMPORTANT: If one of these tests is not OK, see your John Deere dealer.

Continued on next page

JC87117,00002A0 -19-29NOV16-3/9

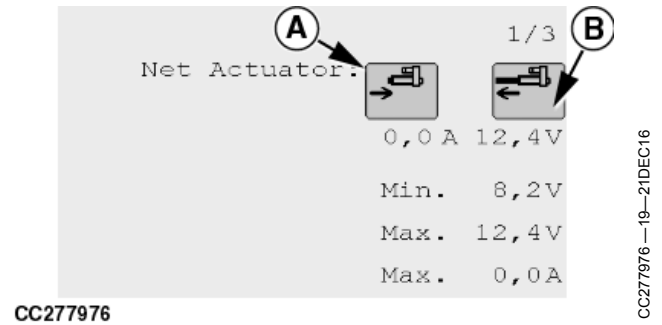
5. **Page 1/3:**

Icon (A) is used to retract the net actuator.

Icon (B) is used to extend the net actuator.

A—Retract Net Actuator

B—Extend Net Actuator



JC87117,00002A0 -19-29NOV16-4/9

6. Select Next Page or Previous Page softkey to switch from one page to another.

CC277967 —UN—22SEP16



CC277967

JC87117,00002A0 -19-29NOV16-5/9

7. **Page 2/3:**

Status symbol (A) shows the component status (deactivated or activated).

Icon (B) is used to test the density solenoid valve.

Icon (C) is used to test the drop floor solenoid valve.

Icon (D) is used to test the pickup lift solenoid valve.

Icon (E) is used to test the automatic greasing relay.

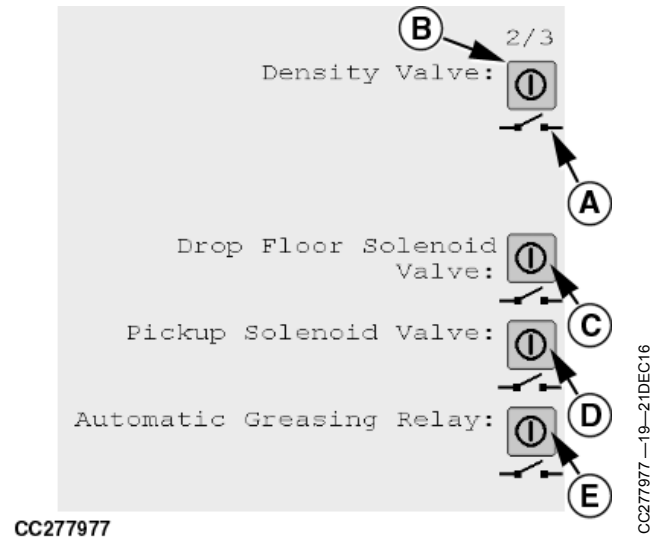
A—Status Symbol

B—Density Solenoid Valve

C—Drop Floor Solenoid Valve

D—Pickup Lift Solenoid Valve

E—Automatic Greasing Relay



JC87117,00002A0 -19-29NOV16-6/9

8. Select Next Page or Previous Page softkey to switch from one page to another.

CC277967 —UN—22SEP16



CC277967

Continued on next page

JC87117,00002A0 -19-29NOV16-7/9

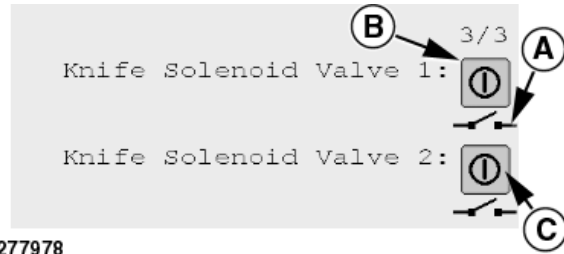
9. Page 3/3:

Status symbol (A) shows the component status (deactivated or activated).

Icon (B) is used to test the solenoid valve for precutter knife set 1.

Icon (C) is used to test the solenoid valve for precutter knife set 2.

CC277978



CC277978 —19—21DEC16

A—Status Symbol

B—Solenoid Valve for Precutter Knife Set 1

C—Solenoid Valve for Precutter Knife Set 2

JC87117,00002A0 -19-29NOV16-8/9

10. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

JC87117,00002A0 -19-29NOV16-9/9

Test Actuator Electrical Consumption

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.



CC277966

CC03745,0001240 -19-09AUG17-1/5

2. Select Baler Diagnostic softkey.

CC1031614 —UN—16SEP09



CC1031614

CC03745,0001240 -19-09AUG17-2/5

3. Select Output Test softkey.

CC277970 —UN—22SEP16



CC277970

Continued on next page

CC03745,0001240 -19-09AUG17-3/5

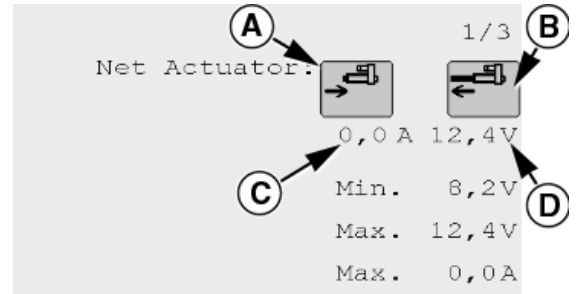
4. Select icon (A) or (B) to extend or retract the actuator of the net binding system.

Amperage value (C) indicates the amperage reading of the net actuator.

Value (D) indicates the voltage in the electrical circuit.

A—Retract Actuator
B—Extend Actuator

C—Amperage Value
D—Voltage Value



CC277979

CC277979 —19—21DEC16

CC03745,0001240 -19-09AUG17-4/5

5. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

CC03745,0001240 -19-09AUG17-5/5

Calibrate Gate Position Potentiometer RB331

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.



CC277966

JC87117,00002A2 -19-28SEP16-1/7

2. Select Baler Calibration softkey.

CC1031658 —UN—16SEP09



CC1031658

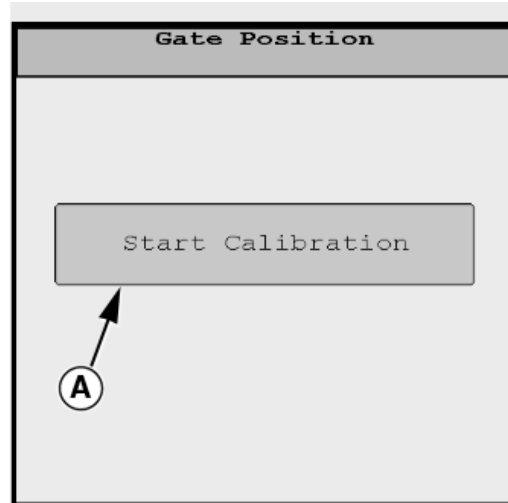
Continued on next page

JC87117,00002A2 -19-28SEP16-2/7

3. Select Start Calibration icon (A) to start gate position potentiometer calibration.

NOTE: Bale chamber must be empty.

A—Start Calibration Icon



CC277980

CC277980 —19—21DEC16

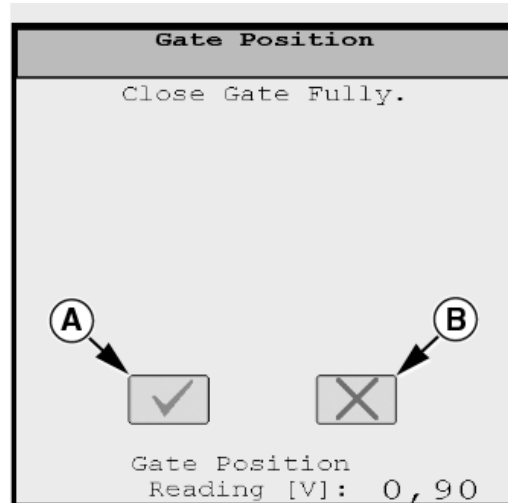
JC87117,00002A2 -19-28SEP16-3/7

4. Actuate tractor selective control valve lever to fully close the gate. Select Accept icon (A) when the gate is fully closed.

NOTE: Operator can cancel calibration at any time by pressing Cancel icon (B).

A—Accept Icon

B—Cancel Icon



CC277981

CC277981 —19—21DEC16

Continued on next page

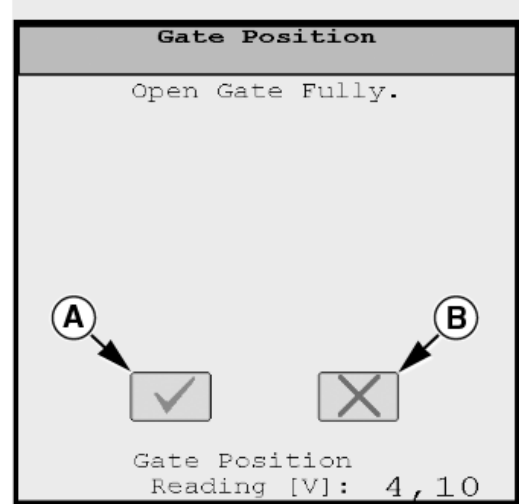
JC87117,00002A2 -19-28SEP16-4/7

5. Actuate tractor selective control valve lever to fully open the gate. Select Accept icon (A) when the gate is fully opened.

NOTE: Operator can cancel calibration at any time by pressing Cancel icon (B).

A—Accept Icon

B—Cancel Icon



CC277982

Continued on next page

JC87117,00002A2 -19-28SEP16-5/7

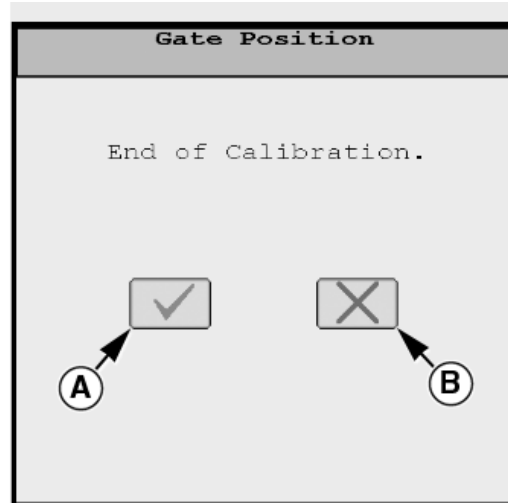
CC277982 —19—21DEC16

6. Select Accept icon (A) to validate gate position calibration. "Calibration Successful" is displayed after validation of calibration.

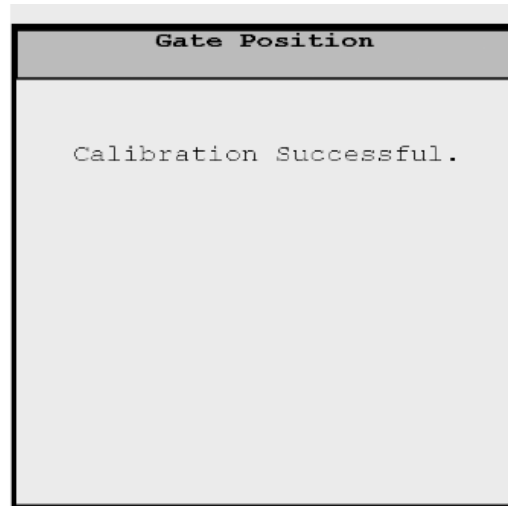
NOTE: Operator can cancel calibration by pressing Cancel icon (B).

A—Accept Icon

B—Cancel Icon



CC277983



CC277984

CC277983 —19—21DEC16

CC277984 —19—21DEC16

JC87117,00002A2 -19-28SEP16-6/7

7. Select Main Page softkey to return to baler application main page.
8. After calibration, monitor should display only one bar for current bale diameter. If more than one bar is displayed, check gate position potentiometer and its lever.

CC277965 —UN—22SEP16



CC277965

JC87117,00002A2 -19-28SEP16-7/7

Baler Rotation Speed Sensor (If Equipped)

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.



CC277966

Continued on next page

TL81334,000005B -19-07JUL17-1/3

2. Checkbox (A) is used to enable or disable the baler rotation speed sensor.

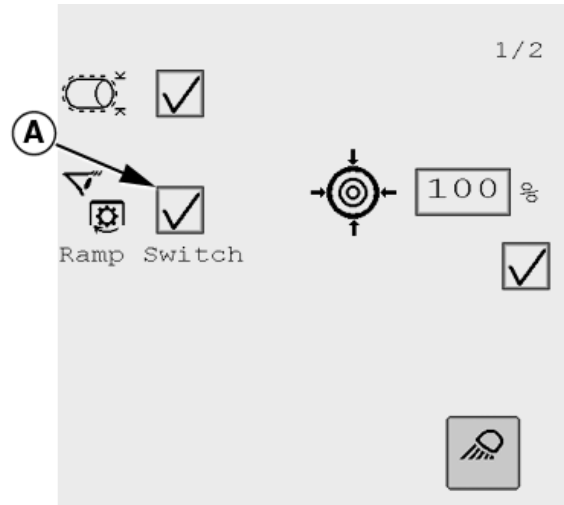
NOTE: Disabling the baler rotation speed sensor allows the baler to be operated with a defective sensor.

- Tick checkbox (A) to enable the baler rotation speed sensor.
- Do not tick checkbox (A) to disable the baler rotation speed sensor.

3. Before deactivating this function, check sensor adjustment. See Adjust Baler Rotation Speed Sensor SB366 (If Equipped) in Service section.

IMPORTANT: Operating the baler with the baler rotation speed sensor disabled may cause malfunctions. See your John Deere dealer to replace defective parts as soon as possible.

A—Baler Rotation Speed Sensor



CC321733

CC321733 —19—04JUL17

TL81334,000005B -19-07JUL17-2/3

4. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

TL81334,000005B -19-07JUL17-3/3

Set Automatic Greasing System (If Equipped with Reservoir-Type Pump)

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.



CC277966

TL81334,000005C -19-07JUL17-1/4

2. Select Next Page or Previous Page softkey to access page 2/2.

CC277967 —UN—22SEP16



CC277967

Continued on next page

TL81334,000005C -19-07JUL17-2/4

3. Set automatic greasing system as follows:

a. Enable or disable the Automatic Greasing function by using checkbox (A).

- Tick checkbox (A) to enable the Automatic Greasing function.
- Do not tick the checkbox (A) to disable the Automatic Greasing function.

Set the ON time 1—5 minutes by using input box (C).

NOTE: The initial factory setting is 4 minutes.

Set the complete cycle time (ON time + OFF time) 15—180 minutes by using input box (D).

NOTE: The initial factory setting is 15 minutes.

On the main page, indicator (E) is displayed according to the automatic greasing system status:

- Greasing pump is crossed out when the automatic greasing system is disabled.
- Greasing pump is full during the ON time.
- Greasing pump is empty during the OFF time.

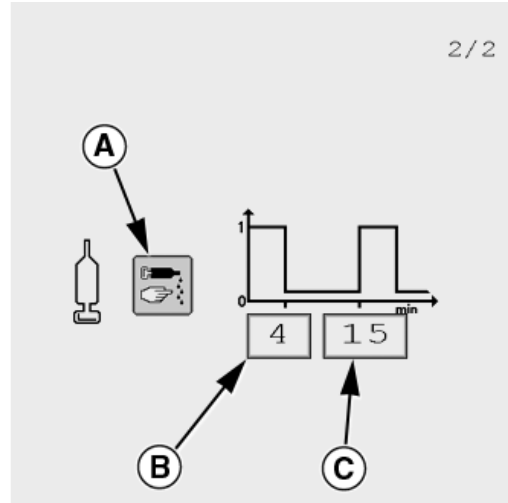
The following conditions have to be met for the activation of the automatic greasing pump:

- PTO engaged.
- Baler rotation speed sensor enabled. See [Baler Rotation Speed Sensor \(If Equipped\)](#) in this section.

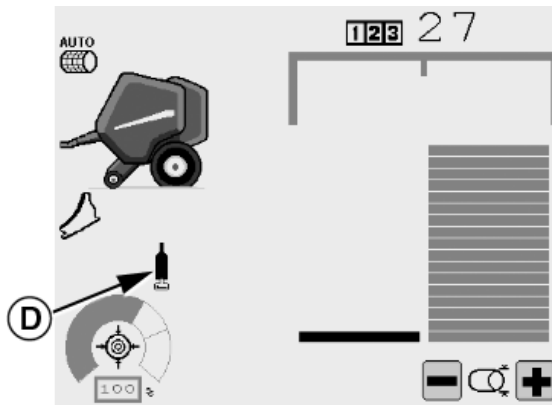
NOTE: If the PTO is disengaged or baler rotation speed sensor is disabled during ON or OFF time, the system memorizes the remaining ON or OFF time and continues the greasing cycle at the point where it was interrupted.

- b. Activate icon (B) to initiate an automatic greasing cycle manually. The automatic greasing system is also activated during the ON time calibration (C) setup. Icon (B) only works if the baler rotation speed sensor is disabled. See [Baler Rotation Speed Sensor \(If Equipped\)](#) in this section.

4. For detailed description of the automatic greasing system, see [Automatic Greasing System General](#)



CC321734



CC321736

A—Start Automatic Greasing Cycle

B—ON Time Calibration

C—Complete Cycle Time Calibration

D—Greasing System Indicator

Information (If Equipped with Reservoir-Type Pump) in Lubrication and Maintenance section.

TL81334,000005C -19-07JUL17-3/4

5. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

TL81334,000005C -19-07JUL17-4/4

Switch Baler Application from Current Virtual Terminal to Another

CC277966 —UN—22SEP16

1. From the baler application main page, select Settings softkey.

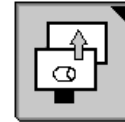


CC277966

JC87117,00002AC -19-02DEC16-1/4

2. Select Select Virtual Terminal softkey.

CC277988 —UN—22SEP16



CC277988

JC87117,00002AC -19-02DEC16-2/4

3. Select icon (A) to switch baler application from the current virtual terminal to another virtual terminal.

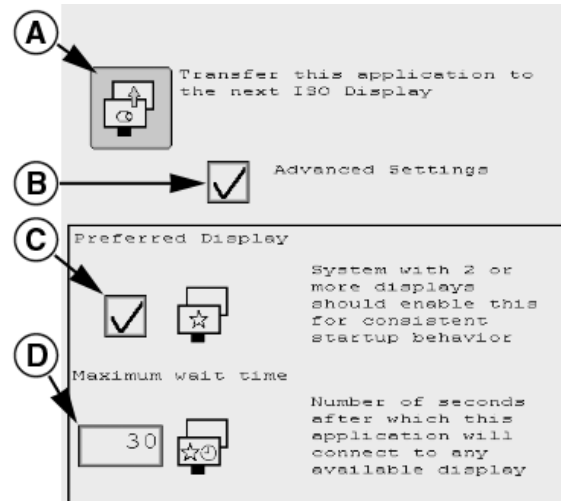
Tick advanced settings checkbox (B) to display preferred virtual terminal (C) and start up waiting time (D) settings.

Preferred virtual terminal checkbox (C) allows operator to choose the virtual terminal that should display baler application at start up. Tick the checkbox (C) when the application is displayed on desired virtual terminal.

Start up waiting time (D) is the time after which the baler application will be displayed on the default virtual terminal if expected virtual terminal is not available.

A—Switch to Another Virtual Terminal Icon
B—Advanced Settings

C—Preferred Virtual Terminal
D—Start Up Waiting Time



CC277989

CC277989 —19—21DEC16

JC87117,00002AC -19-02DEC16-3/4

4. Select Main Page softkey to return to baler application main page.

CC277965 —UN—22SEP16



CC277965

JC87117,00002AC -19-02DEC16-4/4

Periodic Maintenance

CC277966 —UN—22SEP16

1. From the Baler Application Main Page, select the Settings softkey.



CC277966

Continued on next page

TL81334,000005D -19-17JUL17-1/5

2. Select Baler Diagnostic softkey.

CC1031614 —UN—16SEP09



CC1031614

TL81334,000005D -19-17JUL17-2/5

3. Select Next Page or Previous Page softkey to access page 6/6.

CC277967 —UN—22SEP16



CC277967

TL81334,000005D -19-17JUL17-3/5

4. On page 6/6, the counter (A) indicates when it necessary to drain and refill gear case. See Every 500 Hours or Yearly - Drain and Refill Gear Case in Lubrication and Maintenance section.

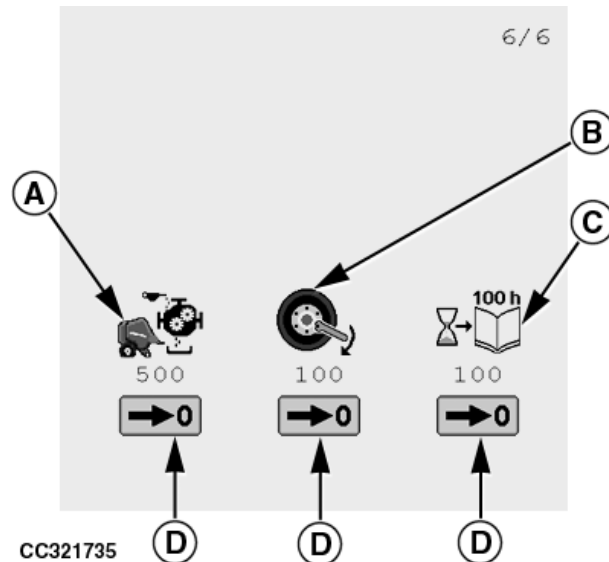
The counter (B) indicates when it necessary to check wheel nut torque. See Check Wheel Nut Torque in Preparing the Baler section.

The counter (C) indicates when it necessary to make the 100 hours or yearly revision. See in Lubrication and Maintenance section.

Select the Clear Counter softkey (D) to reinitialize required counter.

NOTE: The counters must be cleared after every periodic maintenance

A—Drain and Refill Gear Case counter
B—Wheel Nut Torque counter
C—100 h or Yearly revision counter
D—Clear Counter Softkey



CC321737 —19—06JUL17

TL81334,000005D -19-17JUL17-4/5

5. Select Main Page softkey to return to Baler Application Main Page.

CC277965 —UN—22SEP16



CC277965

TL81334,000005D -19-17JUL17-5/5

Storage

Prepare the Baler for Storage

Remove net roll and store it in a cool, dry place.

IMPORTANT: Use an antifreeze or drain pressurized water tank (if equipped). See Charge Pressurized Water Tank in Service section.

Release belt tension.

Clean baler thoroughly inside and out. Trash and dirt will draw moisture and cause rust.

NOTE: Should a high-pressure washer be used to clean the baler, do not direct pressurized water on the bearings or electrical components.

Sharpen and grease net knife.

Coat exposed cylinder rods with grease to prevent rusting.

Check that all rolls are working freely. If one of them is hard to rotate, remove it, clean bearing housing and replace bearing, as required.

Apply a few drops of oil to all pivot points and linkages.

Thoroughly lubricate complete machine. See Lubrication and Maintenance section. This excess of grease will collect moisture and protect bearings against humidity.

Apply a thin layer of grease to threads of all adjusting bolts.

All parts from which the paint has been worn should be painted or coated with oil.

Clean all chains by washing them with adequate fluid. Dry thoroughly and coat with a heavy oil.

Protect electrical connectors against corrosion with adequate fluid.

List the replacement parts that will be needed and order them.

IMPORTANT: If the net binding device is going to be stored for a long period, avoid the rubber feed roll being deformed by releasing feed roll pressure and placing feed roll brake into unlocked position.

CC03745,0001241 -19-09AUG17-1/1

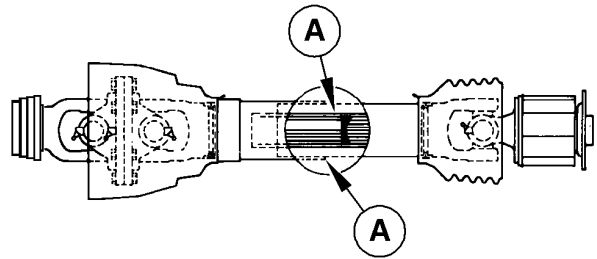
Storing Baler at the End of Season

Store baler in a dry sheltered place. If stored outside, cover with waterproof material.

If baler must be stored outside, belt life (if equipped) can be prolonged by releasing tension, covering or removing belts to protect from sunlight etc. Check hooks and store belts in a cool dry place.

Block up baler, taking load off tires. Do NOT deflate tires. If exposed, cover tires to protect them from light, grease and oil.

Grease guard tubes (A) at the beginning of the winter season to prevent freezing.



CC1027011

CC1027011—UN—27JAN05

OUC006,000110D -19-27JUL06-1/1

Prepare the Baler for Beginning of Season

Check and fill gear case up to check plug level. See Lubrication and Maintenance section.

Lubricate complete machine as this will force any collected moisture out of the bearings. See Lubrication and Maintenance section.

Check tires for correct air pressure. See Preparing the Baler section.

Tighten all screws, nuts and set screws. See Service section.

Check adjustments of baler as described in Service section.

Review your operator's manual.

Check that control monitors function properly.

Wipe off net feed rolls and check for any sticky material. If necessary, roll may be washed with soap and water. NEVER use solvents to clean rubber feed roll and NEVER apply talcum to rubber feed roll.

Check areas which will contact net roll. These areas must be clean and smooth to help prevent net wrapping on rubber coated roll. See Care of Net Binding Device in Preparing the Baler section.

Check adjustments of net binding and check that net knife is sharp. See Service section.

If equipped, fill pressurized water tank with water, see Charge Pressurized Water Tank in Service section.

CC03745,0001242 -19-09AUG17-1/1

Specifications

Specifications for 9YG-1.25 Baler

Size of Bale Chamber

Bale Chamber Diameter.....	1.25 m (4 ft 1 in)
Bale Chamber Width.....	1.21 m (3 ft 11-5/8 in)

Baler

Model.....	9YG-1.25
Outline Dimension	4600 x 2700 x 2300 mm
Productivity.....	≥ 6000 kg/h (13000 lb/h)
Maximum weight ^a	4200 kg (9260 lb)
Length, gate closed	4.60 m (15 ft 1 in)
Length, gate open	4.85 m (15 ft 11 in)
Height, gate closed	2.30 m (7 ft 7 in)
Height, gate open.....	3.04 m (9 ft 11-1/2 in)
Width (with 600/50 - 22.5 tires)	2.70 m (8 ft 10 in)

^aWeight may vary depending on equipment.

2.00 m (6 ft 6-3/4 in) Pickup with Drop Floor

Pickup Width (Outboard Open Position)	2.00 m (6 ft 6-3/4 in)
Pickup Width (Inboard Open Position)	1.708 m (5 ft 7-1/4 in)
Width (between outer teeth)	1.66 m (5 ft 5-1/4 in)
Tooth bars	10 (2 x 5)
Number of teeth	130
Tooth spacing.....	66 mm (2-1/2 in)
Stripper diameter	340 mm (1 ft 1-1/2 in)

2.20 m (7 ft 3 in) Pickup with Drop Floor

Pickup Width (Outboard Open Position)	2.20 m (7 ft 3 in)
Pickup Width (Inboard Open Position)	1.97 m (6 ft 5-9/16 in)
Width (between outer teeth)	1.92 m (6 ft 4 in)
Tooth bars	10 (2 x 5)
Number of teeth	150
Tooth spacing.....	66 mm (2-1/2 in)
Stripper diameter	340 mm (1 ft 1-1/2 in)

Precutter Device with 13 Knives

Number of knives	13
Knife spacing	80 mm (3-1/8 in) (with 13 knives engaged)

Brake System (If Equipped)

Type	Hydraulic or pneumatic
------------	------------------------

Miscellaneous

PTO shaft speed	540 rpm (balers with 540 rpm gear case) 1000 rpm (balers with 1000 rpm gear case)
Press roll quantity.....	17
Press roll speed.....	100 rpm (No. 12) 118 rpm (others)
Drive protection	Cam-type cut out clutch
Powerline.....	Constant velocity powerline
Maximum Tractor Weight	13000 kg (28660 lb)
Minimum tractor horsepower	75 kW (100 hp) at PTO

Continued on next page

GA8748,0000588 -19-27MAR18-1/2

Specifications

Miscellaneous

Tire size.....	15/70 - 18 (12 PR)
	16/70 - 20 (12 PR)
	500/55 - 20 (150A8)
	520/55R22.5 (154D)
	600/50 - 22.5 (156A8)
Tongue	Adjustable

Sound Level

Max. sound level in accordance with EN1553; measurement method in accordance with ISO3744 (average value).....	85 dB(A)
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GA87848,0000588 -19-27MAR18-2/2

Serial Number

Serial Number Plate

Serial number identifying the baler is stamped on factory serial number plate.

These numbers and letters are required when ordering baler or attachment replacement parts.

To ensure that you have these numbers at hand, enter the appropriate serial number in the table provided under the illustration.

OUCC006,000169A -19-29JUN10-1/1

Serial Number Plate Description

- A—Model Designation

B—Serial Number

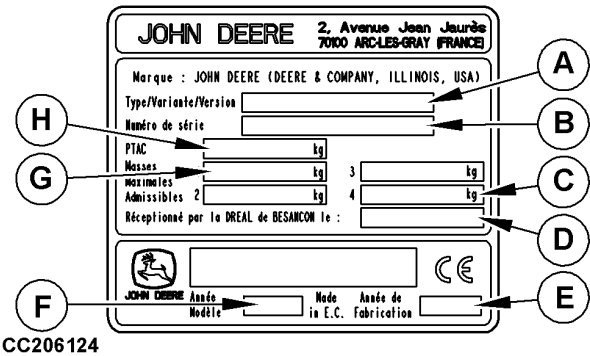
C—Maximum Load at Hitch

D—Date of Acceptance or homologation number
- E—Year of Production

F—Model Year

G—Maximum Load on Axle

H—Maximum Permissible Total Weight

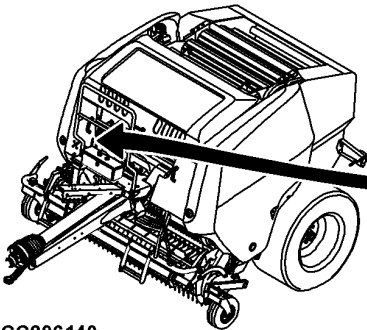


CC206124

CC206124 —UN—30OCT13

NB02380,00001FD -19-18OCT16-1/1

Baler Identification Number



CC296140



The baler identification number plate is located on the right-hand side of the baler, behind the hinged protection screen.

Record the serial number in the table below.

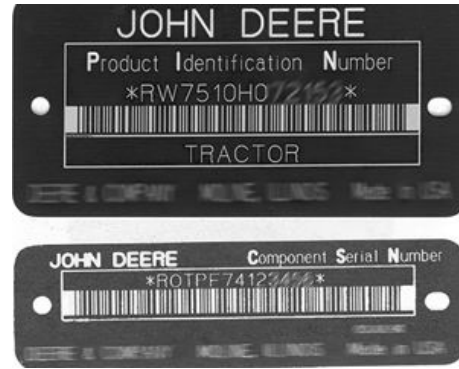
Serial Number													
*													*

NB02380,00001FF -19-18OCT16-1/1

CC296140 —UN—18OCT16

Keep Proof of Ownership

1. Maintain in a secure location an up-to-date inventory of all product and component serial numbers.
2. Regularly verify that identification plates have not been removed. Report any evidence of tampering to law enforcement agencies and order duplicate plates.
3. Other steps you can take:
 - Mark your machine with your own numbering system
 - Take color photographs from several angles of each machine

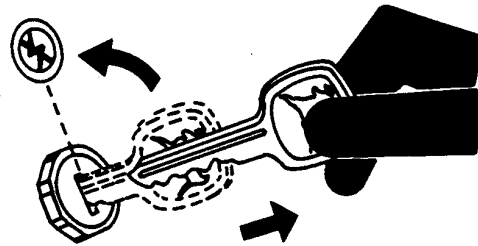


TS1680—UN—09DEC03

DX,SECURE1 -19-18NOV03-1/1

Keep Machines Secure

1. Install vandal-proof devices.
2. When machine is in storage:
 - Lower equipment to the ground
 - Set wheels to widest position to make loading more difficult
 - Remove any keys and batteries
3. When parking indoors, put large equipment in front of exits and lock your storage buildings.
4. When parking outdoors, store in a well-lighted and fenced area.
5. Make note of suspicious activity and report any thefts immediately to law enforcement agencies.
6. Notify your John Deere dealer of any losses.



TS230—UN—24MAY89

DX,SECURE2 -19-18NOV03-1/1

Manufacturer Information

Manufacturer: 约翰·迪尔 (佳木斯) 农业机械有限公司

Address: 黑龙江省佳木斯市联盟街1号

Zip Code: 154002

Telephone: 400-6576-555

Website: <http://www.johndeere.com.cn>

For technical support, contact your dealer.

GA87848,0000589 -19-26FEB18-1/1

John Deere Service Literature Available

Technical Information

Technical information can be purchased from John Deere. Publications are available in print or CD-ROM format.

Orders can be made using one of the following:

- John Deere Technical Information Store:
www.JohnDeere.com/TechInfoStore
- Call 1-800-522-7448
- Contact your John Deere dealer

Available information includes:

PARTS CATALOGS list service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.



TS189 —UN—17JAN89

DX,SERVLIT -19-07DEC16-1/4

OPERATOR'S MANUALS providing safety, operating, maintenance, and service information.



TS191 —UN—02DEC88

DX,SERVLIT -19-07DEC16-2/4

TECHNICAL MANUALS outlining service information for your machine. Included are specifications, illustrated assembly and disassembly procedures, hydraulic oil flow diagrams, and wiring diagrams. Some products have separate manuals for repair and diagnostic information. Some components, such as engines, are available in a separate component technical manual.



TS224 —UN—17JAN89

Continued on next page

DX,SERVLIT -19-07DEC16-3/4

EDUCATIONAL CURRICULUM including five comprehensive series of books detailing basic information regardless of manufacturer:

- Agricultural Primer series covers technology in farming and ranching.
- Farm Business Management series examines “real-world” problems and offers practical solutions in the areas of marketing, financing, equipment selection, and compliance.
- Fundamentals of Services manuals show you how to repair and maintain off-road equipment.
- Fundamentals of Machine Operation manuals explain machine capacities and adjustments, how to improve machine performance, and how to eliminate unnecessary field operations.
- Fundamentals of Compact Equipment manuals provide instruction in servicing and maintaining equipment up to 40 PTO horsepower.



TS1663—UN—10OCT97

DX,SERVLIT -19-07DEC16-4/4

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