565
Round Baler

OPERATOR'S MANUAL

565
Round Baler

OMCC51263 Issue B9 (ENGLISH)

John Deere Arc-lès-Gray
European Version
Printed in U.S.A.

DCY

OMCC51263

Introduction

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 Specification or Identification Numbers 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.

Contents

Continued on next page

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.

OMCC51263 B9-19-11FEB99

Identification Views

565 Round Baler with standard pickup

565 Round Baler with wide pickup

CC,565RB 004614-19-15NOV98

RECOGNIZE SAFETY INFORMATION

This is the 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.

T81389 -UN-07DEC88

DX,ALERT -19-29SEP98

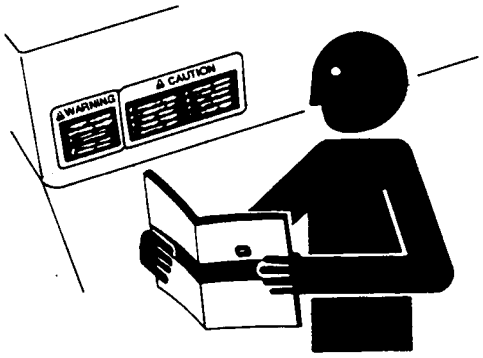
FOLLOW SAFETY INSTRUCTIONS

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.

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.

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



TS201 -UN-23AUG88

DX,READ -19-03MAR93

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

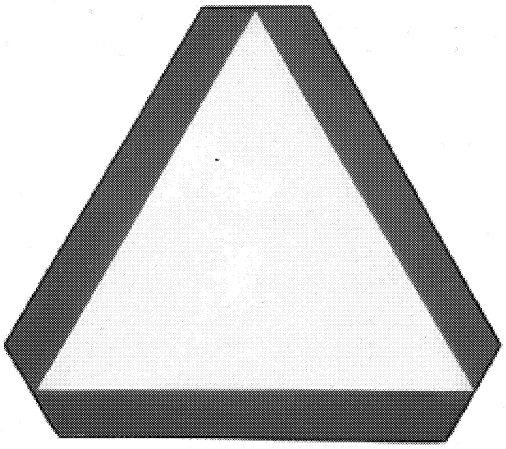
DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

TS187 -19-30SEP88

DX,SIGNAL -19-03MAR93

OBSERVE ROAD TRAFFIC REGULATIONS

Always observe local road traffic regulations when using public roads.



H28930 -UN-30JUN89

FX,ROAD -19-01MAY91

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

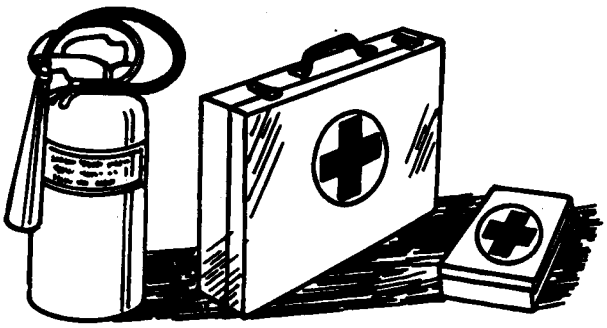
DX,STORE -19-03MAR93

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-23AUG88

DX,FIRE2 -19-03MAR93

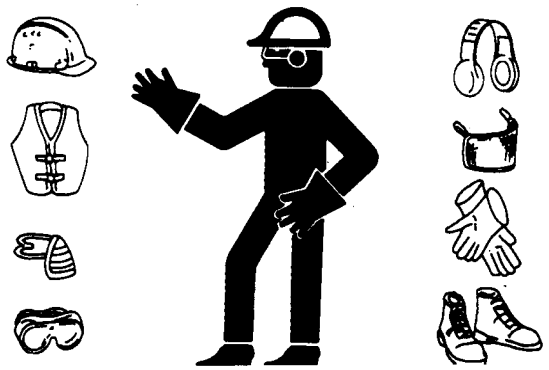
WEAR PROTECTIVE CLOTHING

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-23AUG88

DX,WEAR -19-10SEP90

CHECK MACHINE SAFETY

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

FX,READY -19-28FEB91

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.

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

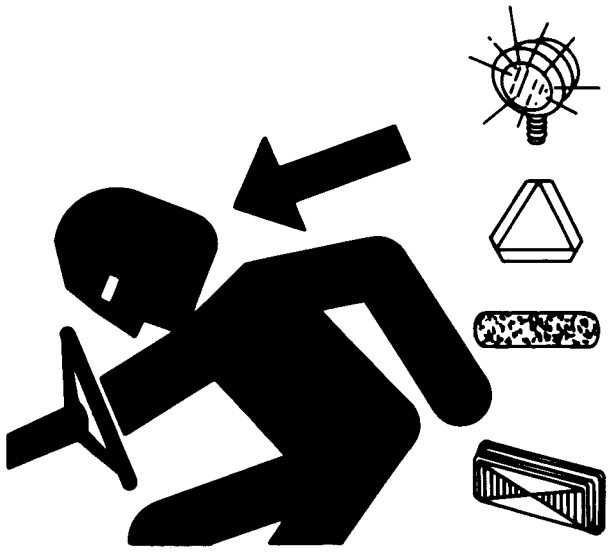
TS1644 -UN-22AUG95

DX,PTO -19-12SEP95

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 hand signals or 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 and in good working order. Replace or repair lighting and marking that has been damaged or lost.



TS951 -UN-12APR90

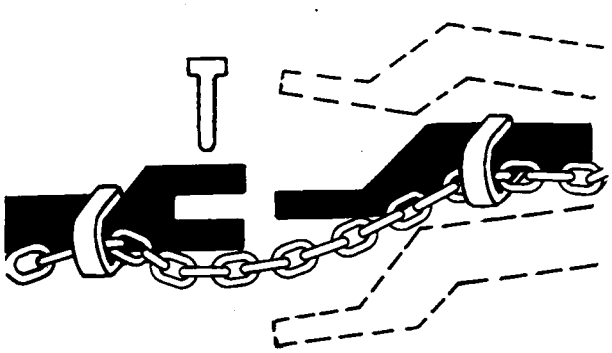
DX,FLASH -19-04FEB99

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

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.

CC,575RB 001311-19-20MAY94

AVOIDING INJURY OR DEATH FROM FALLING ROUND BALES

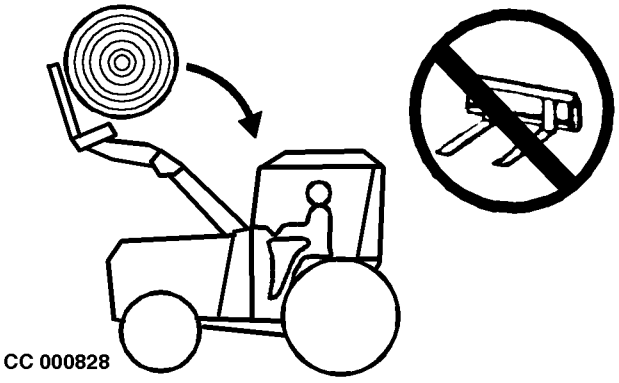
CAUTION: To help prevent personal injury or death caused by falling loads:

• DO NOT handle round bales unless loader is equipped with an approved bale handling device. Otherwise, the bale can fall on the operator when the loader is raised.

• For 6000 and 7000 series tractors, set detent selector knobs on top of valves to “loader” position when using the selective control valve levers to operate the loader. See “Setting Valve Detent Selector” in “Preparing the Tractor” Section.

• Handle raised loads with caution.

• Carry loads low and drive slowly.



CC 000828

CC000828 -UN-05APR95

CC,575RB 001312-19-20MAY94

USING FRONT LOADER TO MOVE ROUND BALES

CAUTION: Improper use of loader to handle round bales can result in injury to the tractor operator from:

- The bale rolling back down the loader boom into the operator's station.

- A tractor roll-over accident caused by instability when the bale is not carried low.

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

Due to the weight and rolling tendency of large round bales, be careful when moving bales:

• 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.

• Do not allow anyone to stand near the rear of the baler when it is discharging a bale.

• To avoid handling and stability problems, do not exceed the manufacturer's rated capacity of the tractor.

• The tractor must be equipped with a roll-over protective structure to prevent injury to operator in the event of tractor roll-over accident.

• The tractor must have maximum rear ballast per wheel and maximum tread width. See your tractor operator's manual.

• Reduce the tractor ground speed. Carry the bale as low as possible and maintain adequate visibility and ground clearance at all times.

• Jerky operation causes tractor-loader instability. Operate the loader controls smoothly.

• When handling round bales on a slope, approach the bale with tractor facing uphill.

• Never use the tractor loader to stop a rolling bale.

CC,570RB 001523-19-20MAY94

EXTINGUISHING A FIRE

1. Eject bale immediately.

2. Move tractor and baler upwind as far as possible from flammable material.

3. Raise gate and engage locking device.

4. Use pressurized water fire extinguisher or other water supply to put out fire.

CC,575RB 001313-19-20MAY94

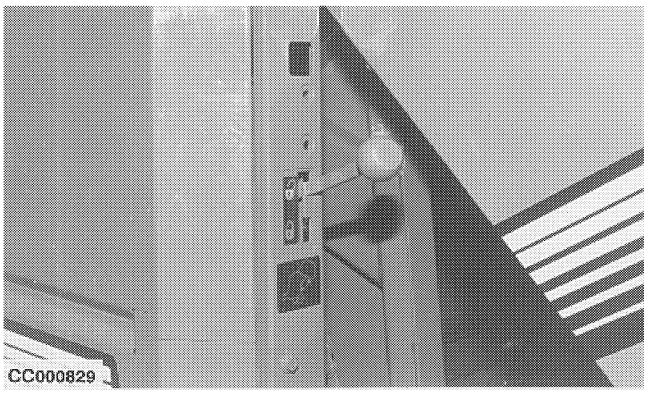
SECURE GATE SAFELY

Position gate lock valve in locked position before working on or around baler with gate in raised position. Refer to “Operating the Baler-General Purposes” Section for gate lock valve instructions.

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

Be sure bystanders are clear before operating gate.

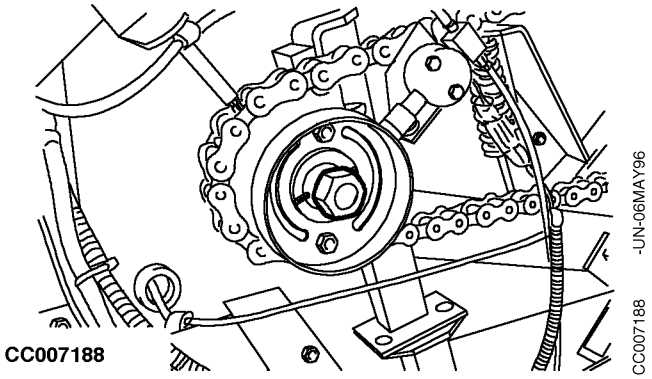
Remove foreign objects from machine. Refer to “Operating the Baler-General Purposes” Section for removal of foreign objects.



CC,565RB 004615-19-15NOV98

SERVICE MACHINE SAFELY

Use a spanner to turn hex. gear case output shaft 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.



CC,575RB 003040-19-13NOV95

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 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.

TS218 -UN-23AUG88

DX,SERV -19-04FEB99

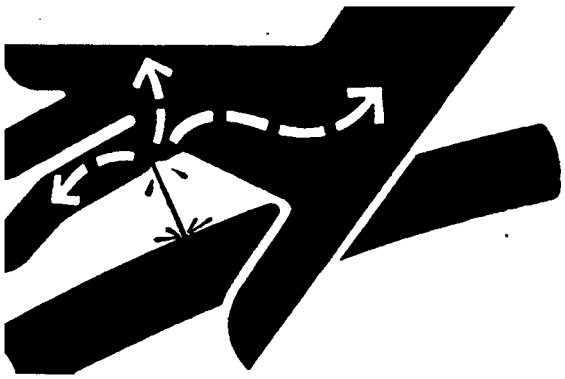
AVOID HIGH-PRESSURE FLUIDS

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 from Deere & Company Medical Department in Moline, Illinois, U.S.A.



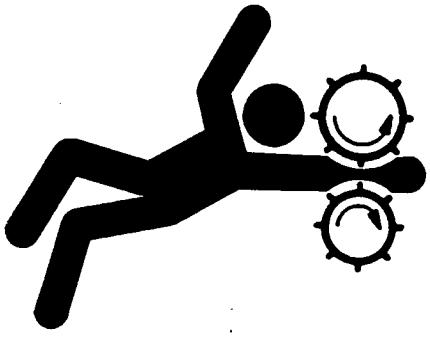
X9811 -UN-23AUG88

DX,FLUID -19-03MAR93

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.



TS228 -UN-23AUG88

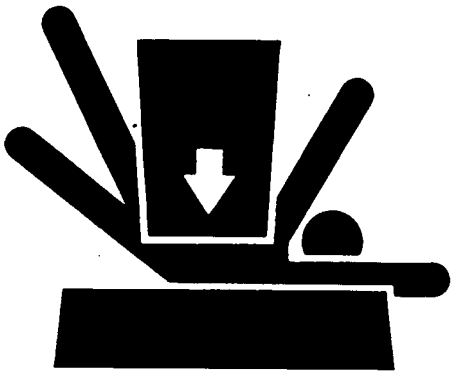
DX,LOOSE -19-04JUN90

SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment. If left in a raised position, hydraulically supported devices can settle or leak down.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

When implements or attachments are used with a tractor, always follow safety precautions listed in the implement operator's manual.



TS229 -UN-23AUG88

DX,LOWER -19-04FEB99

REMOVE PAINT BEFORE WELDING OR HEATING

Avoid potentially toxic fumes and dust.

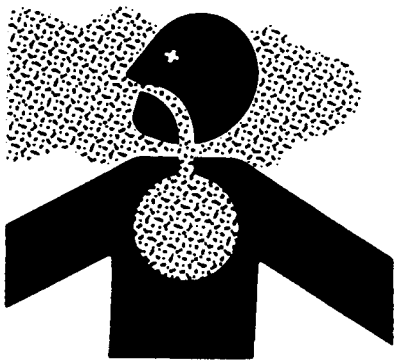
Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

• 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.



TS220 -UN-23AUG88

DX,PAINT -19-03MAR93

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 be accidentally cut when heat goes beyond the immediate flame area.

TS953 -UN-15MAY90

DX,TORCH -19-03MAR93

DISPOSE OF WASTE PROPERLY

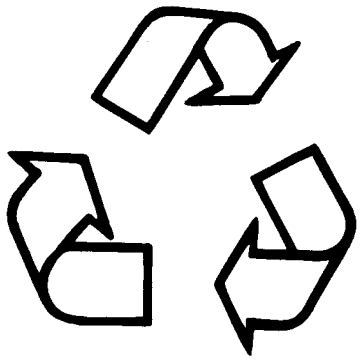
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



TS1133 -UN-26NOV90

DX,DRAIN -19-03MAR93

Safety Decals

PICTORIAL SAFETY SIGNS

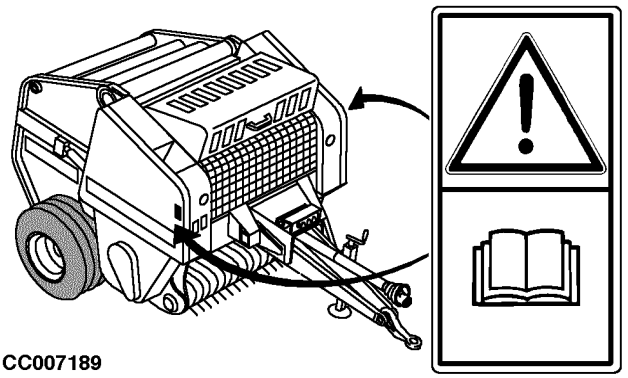
At several important places of this machine safety signs are affixed intended to signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information how to avoid personal injury. These safety signs, their placement on the machine and a brief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

TS231 -19-07OCT88

FX,WBZ -19-19NOV91

OPERATOR'S MANUAL

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



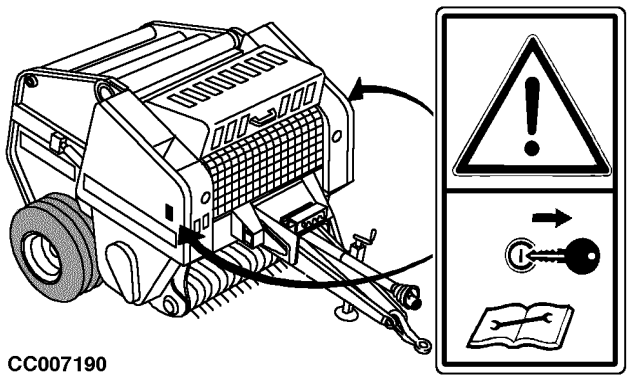
CC007189

CC007189 -UN-06MAY96

CC,575RB 003041-19-13NOV95

REPAIR AND MAINTENANCE

Before carrying out repair and maintenance work, shut off tractor engine and remove key.



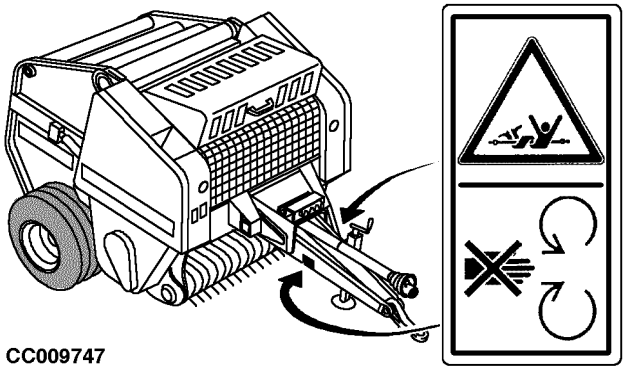
CC007190

CC007190 -UN-06MAY96

CC,575RB 003042-19-13NOV95

BALER DRIVE LINE

Stay clear of rotating drive line to avoid personal injury.



CC009747

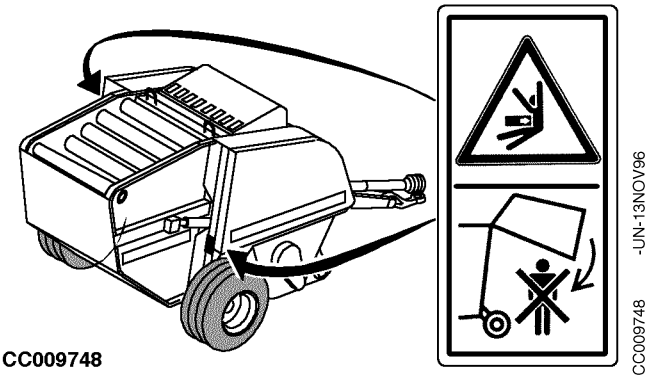
CC009747 -UN-13NOV96

CC,575RB 003557-19-07NOV96

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.

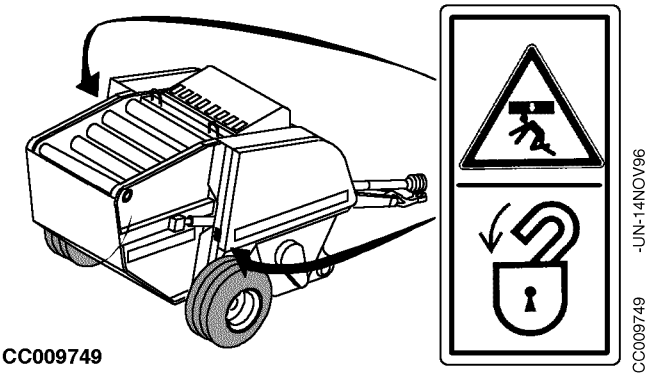


CC,575RB 003558-19-07NOV96

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.



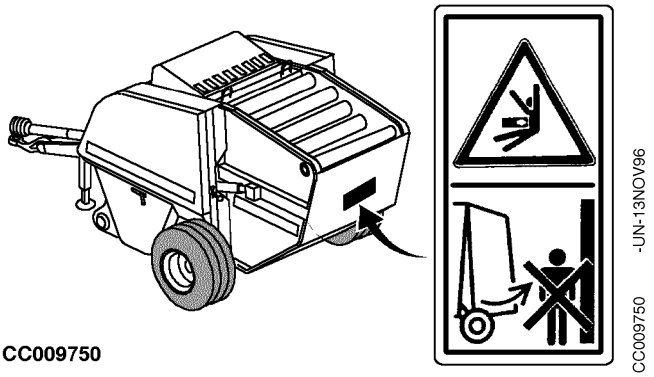
CC,575RB 003559-19-07NOV96

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 raised.

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

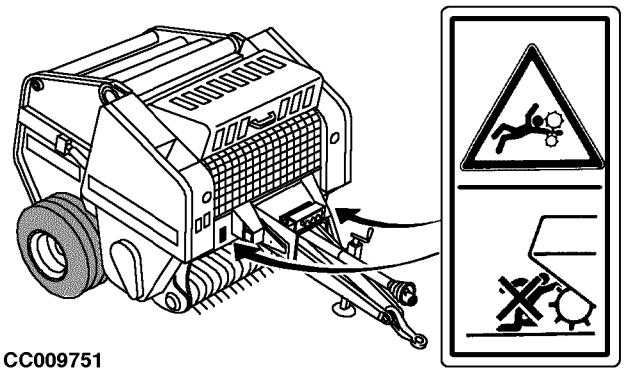


CC,575RB 003560-19-07NOV96

PICKUP

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

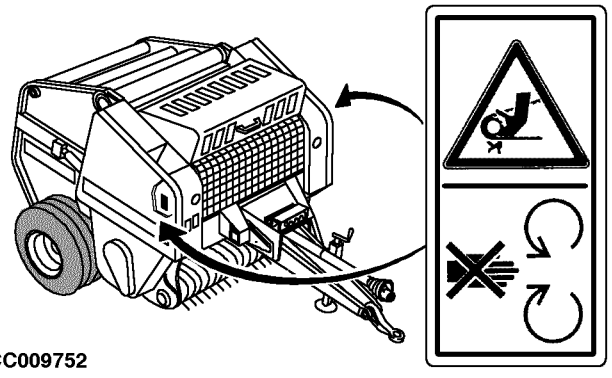
Stay clear of rotating pickup as it may result in death or serious injury.



CC,575RB 003561-19-07NOV96

DRIVE CHAINS

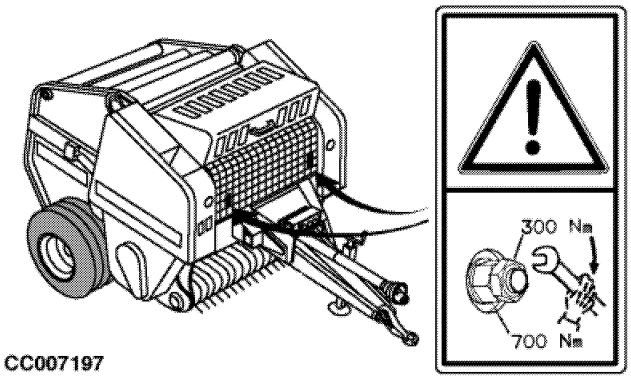
Do not open or remove guard when the baler is running.



CC,575RB 003562-19-07NOV96

TONGUE FRAME ATTACHING SCREWS

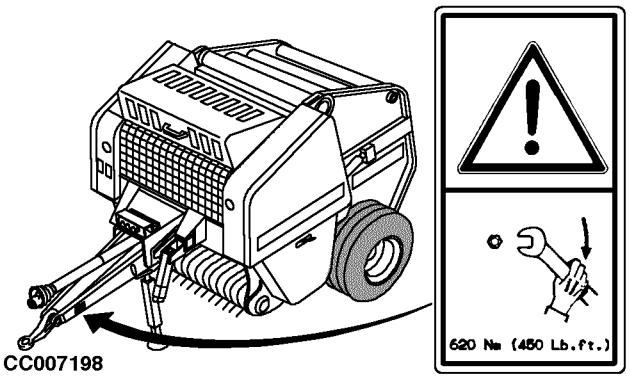
Retighten tongue frame attaching screws at specified intervals.



CC,575RB 003049-19-13NOV95

HITCH PLATE ATTACHING SCREW

Retighten hitch plate attaching screw at specified intervals.



CC,575RB 003050-19-13NOV95

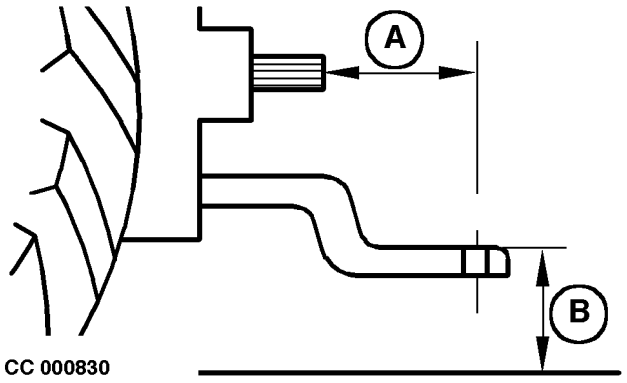
ADJUSTING DRAWBAR

IMPORTANT: Before attaching baler, be sure to adjust drawbar. Replace all shields.

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

Set drawbar to the following dimensions:

A—150 to 200 mm (4 to 8 in.) recommended
350 mm (13.8 in.) maximum
B—330 to 508 mm (13 to 20 in.)



CC 000830

CC000830 -UN-05APR95

CC,570RB 003490-19-15SEP98

ADJUSTING TRACTOR FRONT TREAD

Adjust distance from tire inside (A) to tire inside to a minimum of 1372 mm (4.5 ft) or a maximum of 1524 mm (5 ft).

See your tractor operator's manual to make adjustments.

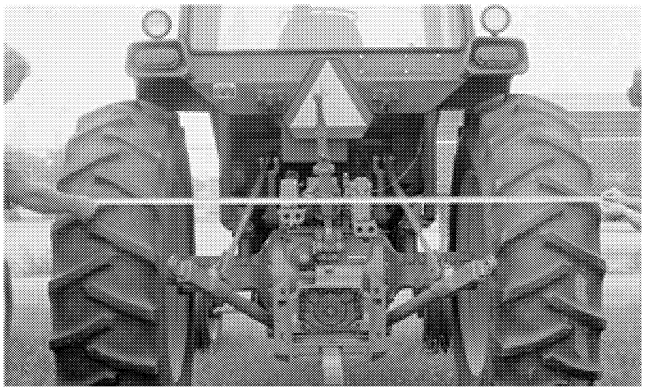
E21602 -UN-12SEP88

CC,575RB 001317-19-15SEP98

ADJUSTING TRACTOR REAR TREAD

Adjust rear tractor wheels to provide an outside tire dimension of 2591 to 2743 mm (8.5 to 9 ft)

See your tractor operator's manual to make adjustments.



E21603 -UN-12SEP88

CC,575RB 001318-19-15NOV98

CHECKING TRACTOR BALLAST

Provide sufficient weight to stabilize tractor when operating on hilly ground or other adverse conditions. See your tractor operator's manual.

CC,570RB 001444-19-15SEP98

SELECTING TRACTOR PTO SPEED

CAUTION: Under no circumstances should a baler equipped for 540 rpm PTO drive be operated with a tractor at 1000 rpm PTO speed.

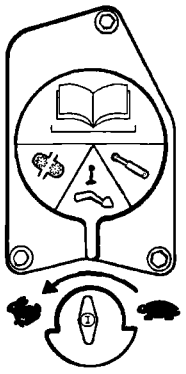
CC,570RB 001445-19-15SEP98

SETTING TRACTOR SELECTIVE CONTROL VALVES

Set tractor selective control valves to approximately 40 L/min (10.55 US gal/min) flow.

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 8000 Series tractors, set detent time at "0".



CC000833

CC000833 -UN-05APR95

CC,575RB 004143-19-15NOV98

PREPARING THE TRACTOR FOR CONTROL MONITOR INSTALLATION

The round baler control monitors are designed for use on 12 Volt electrical systems with negative ground. All control monitors are reverse voltage protected.

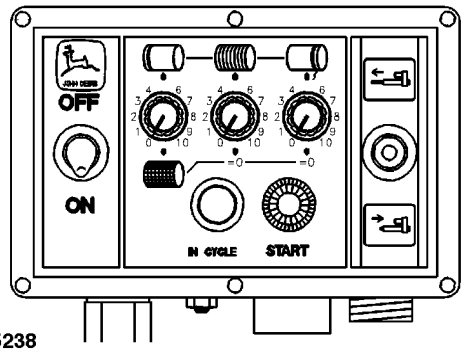
Electronic Wrapping Control Monitor and Manual Control Switch Electrical Requirements

The power supply must be 12 Volt, 30 A fully charged battery. A minimum of 20 A is required during electrical cylinder retract cycle.

IMPORTANT: Over voltage should not be higher than 19 V.

Under voltage should not be below 9 V for Electronic Wrapping Control as under this value circuit breaker will trip. This can occur when battery is flat or if battery connections are not good. Always check battery voltage and connections by actuating the actuators before operating the baler.

NOTE: Due to the high level of ripple current (over voltage), do not perform any Electronic Wrapping Control monitor test with the battery connected to a battery charger.



CC015238 -UN-11FEB99

Electronic Wrapping Control

CC000973 -UN-09FEB96

Manual Twine Control Switch

CC,565RB 004725-19-11FEB99

INSTALL ELECTRONIC WRAPPING CONTROL MONITOR SUPPORT (6000, 7000 AND 8000 SERIES TRACTORS ONLY)

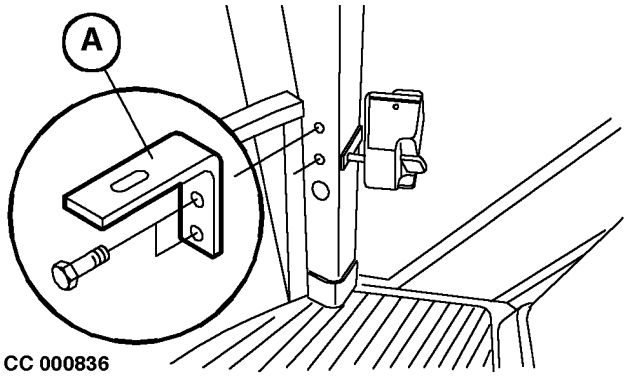
Remove the top two plugs from the lower right-hand cab post.

Install angle (A) to cab post. Fasten with two M10x20 flange screws.

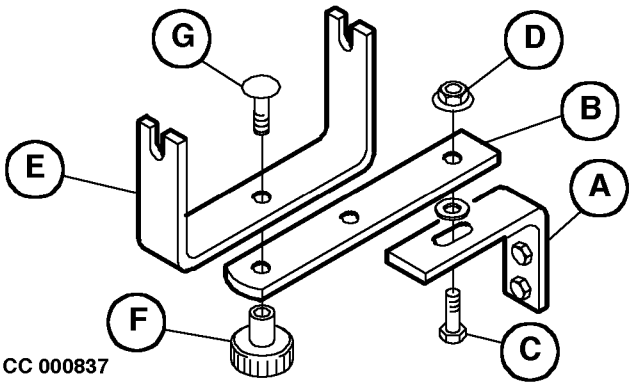
Install monitor strap (B) to angle (A). Fasten with M10x35 cap screw (C), washer and flange nut (D).

Install monitor support (E) to monitor strap (B). Fasten with knob (F) and round-head bolt (G).

A—Angle
B—Monitor strap
C—Cap screw
D—Flange nut
E—Monitor support
F—Knob
G—Round-head bolt



CC 000836 -UN-05APR95



CC 000837 -UN-05APR95

CC,565RB 004726-19-11FEB99

INSTALL ELECTRONIC WRAPPING CONTROL MONITOR SUPPORT (6000 AND 7000 OPEN STATION TRACTORS ONLY)

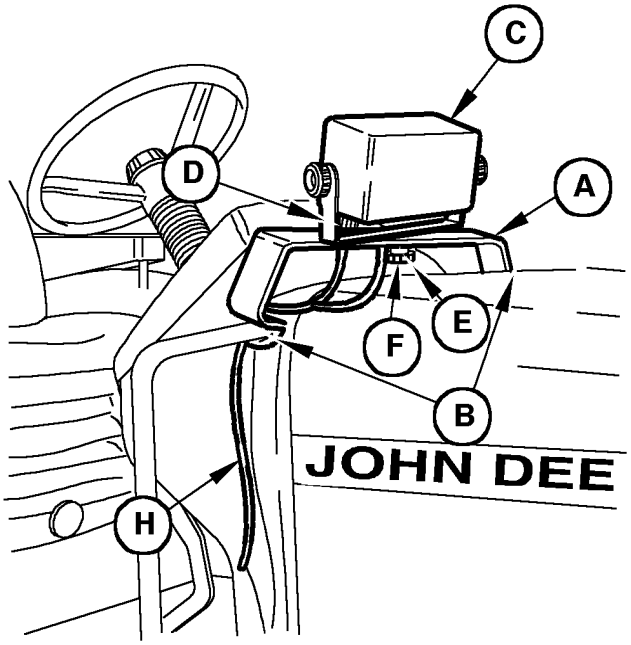
Install bracket (A) over tractor hood. Fasten with two U-bolts (B), washers and nuts.

Install monitor (C) with monitor support (D) on bracket (A) in convenient location. Fasten with knob (E) and round-head bolt (F).

NOTE: If necessary, extension plate (G) can be used to offset monitor (C) location.

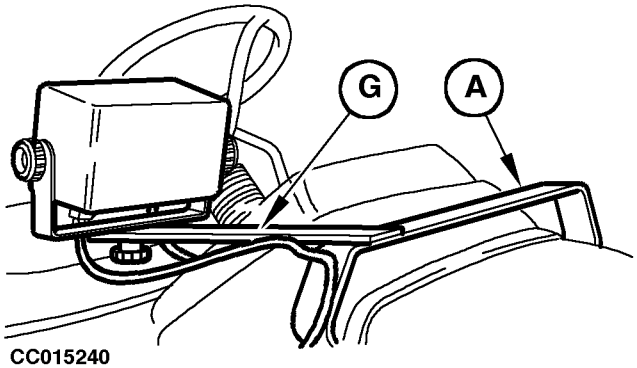
Route battery wiring harness (H) down hood. Fasten harness to U-bolt (B) with tie band (tie band not provided).

A—Bracket
B—U-bolt
C—Monitor
D—Monitor support
E—Knob
F—Round-head bolt
G—Extension plate
H—Wiring Harness



CC015239 -UN-11FEB99

CC015239



CC015240 -UN-11FEB99

CC015240

CC,565RB 004727-19-11FEB99

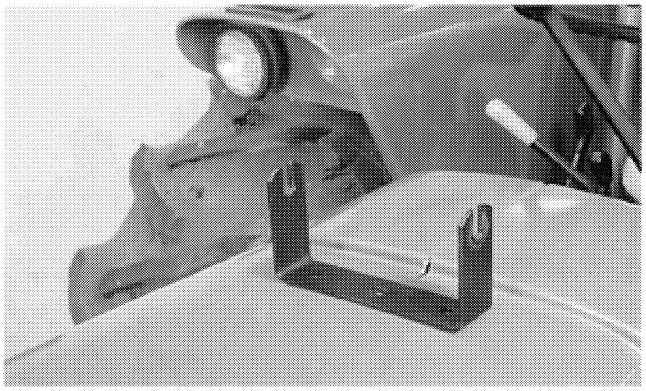
INSTALL ELECTRONIC WRAPPING CONTROL MONITOR SUPPORT (ALL TRACTORS EXCEPT 6000, 7000 AND 8000 SERIES TRACTORS)

NOTE: If the tractor is not equipped with an operator's cab, install monitor bracket on cowling, fender or any convenient area. Be sure to check mounting hardware clearance before drilling.

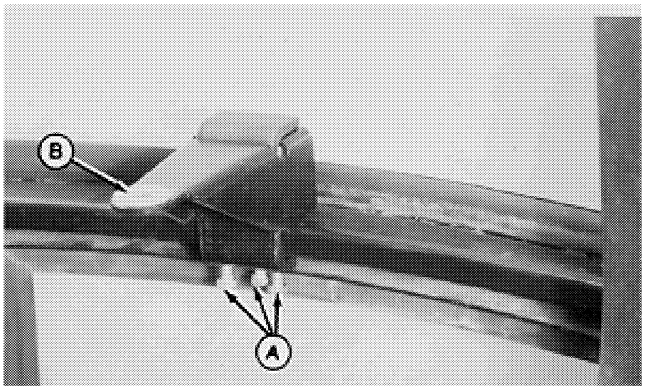
NOTE: On tractors with operator's cab: assemble mounting brackets and secure to window ledge with three cap screws (A).

Place washer (B) over hole.

Secure support to bracket.



E21704 -UN-15SEP88

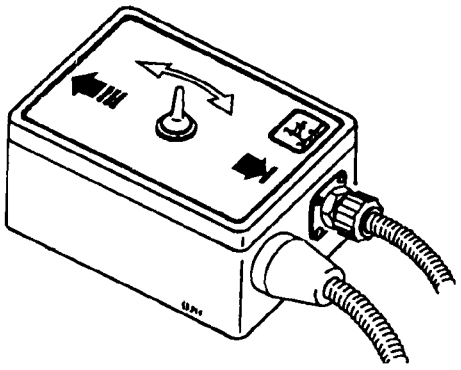


E21705 -UN-15SEP88

CC,565RB 004728-19-11FEB99

INSTALLING MANUAL TWINE CONTROL SWITCH

Install manual twine control switch box at any convenient place near the operator's seat.



CC007871 -UN-07NOV96

CC007871

CC,575RB 003474-19-24SEP96

CONNECT ELECTRONIC WRAPPING CONTROL MONITOR TO TRACTOR (BATTERY WIRING HARNESS INSTALLATION)

The Electronic Wrapping Control monitor is designed to be connected to the tractor convenience outlet. If your tractor is not provided with, install special battery harness (B) with convenience outlet (A). The special harness (B) must be directly connected to the battery straps.

NOTE: The special harness (B) is also available as an option for further tractor installation.

• Proceed as follows:

- Drill a hole into the side wall of the tractor cab, at any convenient place, to install convenience outlet (A).

- Clamp relevant pins (C)-(D)-(E) to the wires, then connect to the outlet (A) as shown opposite.

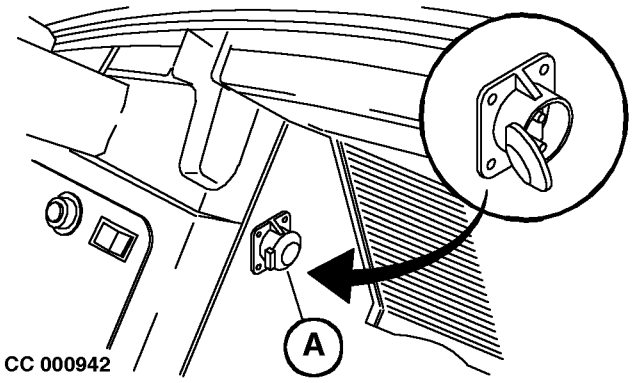
- Route wiring harness (B) through the cab up to the battery.

- Clamp relevant pins (F)-(G)-(H) to the wires, then connect red wires to the positive strap and black wire to the negative strap of the battery.

IMPORTANT: Do not connect the positive wires (F) and (H) (RED) to the starter motor solenoid!

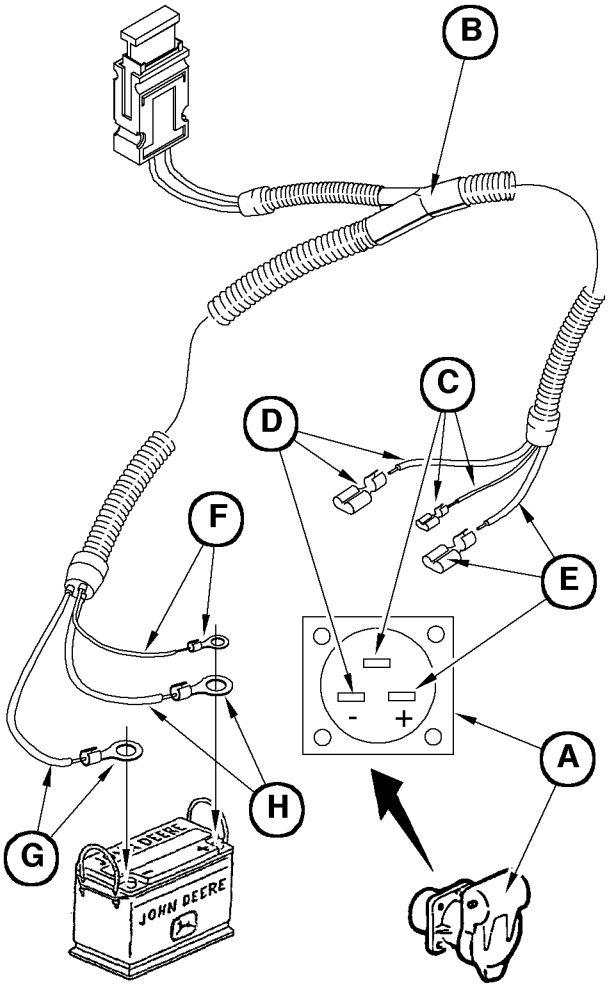
NOTE: Disconnect battery harness or main wiring harness connector when welding on machine.

A—Convenience outlet
B—Battery harness
C—Red (1.5 mm^2)
D—Black (6.0 mm^2)
E—Red (6.0 mm^2)
F—Red (Positive) wire (1.5 mm^2)
G—Black (Negative) wire (6.0 mm^2)
H—Red (Positive) wire (6.0 mm^2)



CC 000942

CC000942 -UN-05APR95



CC010036

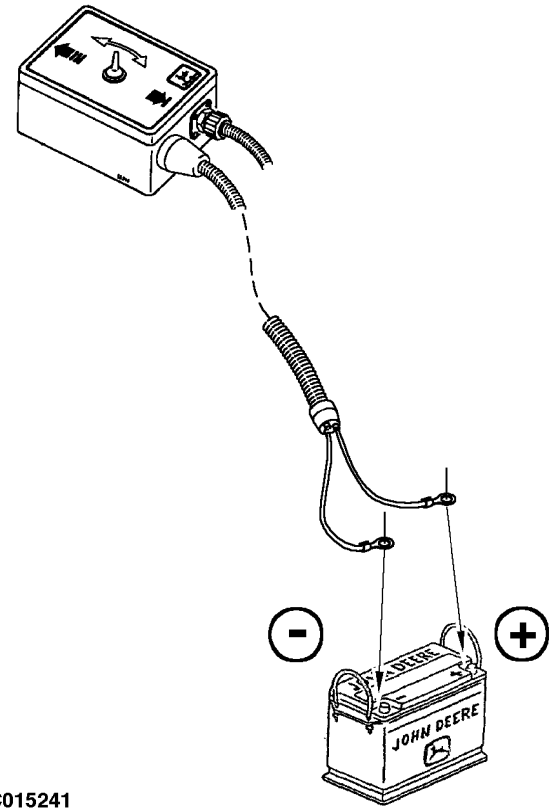
CC010036 -UN-23OCT97

CC,565RB 004729-19-11FEB99

CONNECT MANUAL TWINE CONTROL SWITCH TO TRACTOR

Connect the positive wire (RED) of the manual control switch to the positive strap of the tractor battery.

Connect the ground wire (BLACK) to the negative strap of the tractor battery.

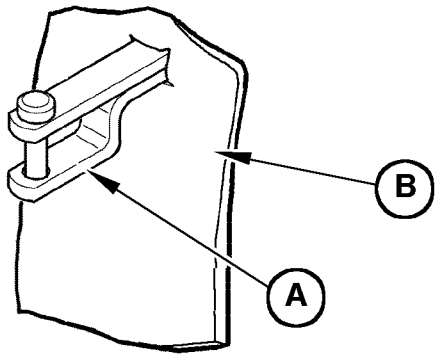


CC015241

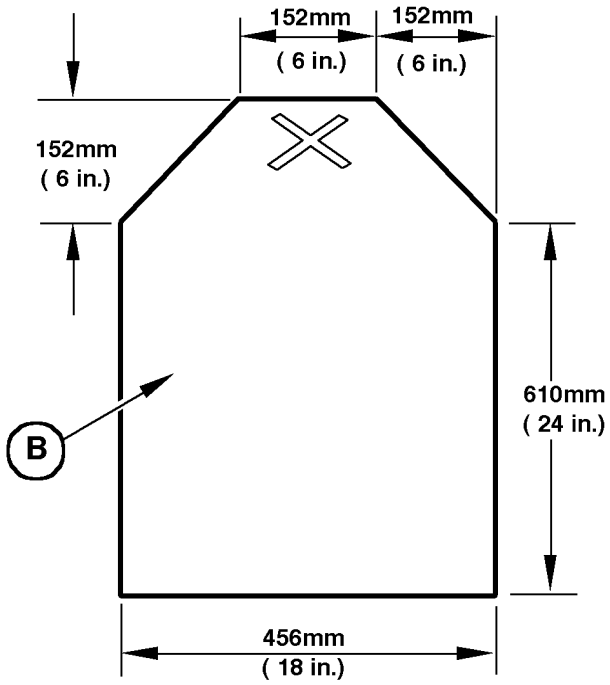
CC,565RB 004730-19-11FEB99

USING DRAWBAR SHIELD

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



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



CC,570RB 003439-19-15SEP98

Preparing the Baler

SELECTING TWINE

A good quality twine plays a very important part in proper baler operation.

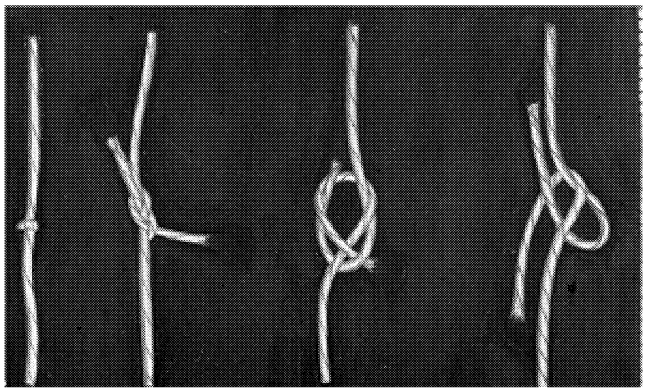
Twine of good tensile strength and uniformity in size should be selected for proper baling operation. This will also help prevent twine from breaking during handling and transporting of bales.

CC,570RB 001463-19-15SEP98

TYING SHEET BEND KNOT (PLASTIC TWINE)

IMPORTANT: The knot must be small enough to pass through the guides and twine arm.

Tie plastic twine balls together with a sheet bend knot as shown.

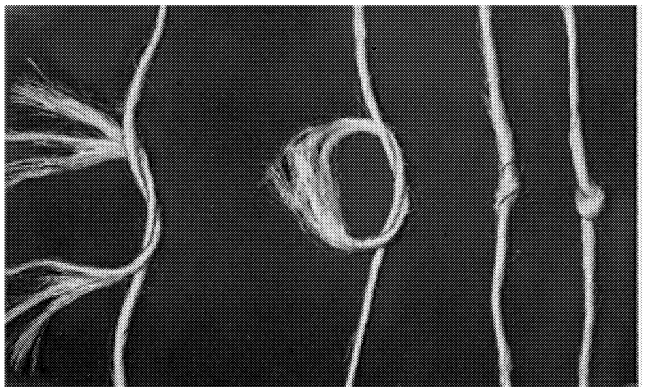


CC,570RB 001468-19-15SEP98

TYING MODIFIED SQUARE KNOT (SISAL TWINE)

IMPORTANT: The knot must be small enough to pass through the guides and twine arm.

Tie twine balls together with a square or modified square knot as shown.



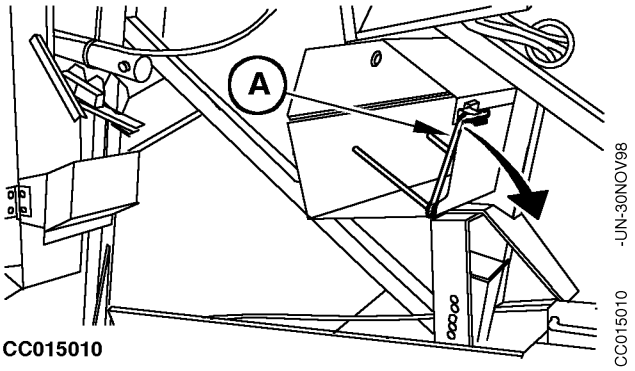
CC,570RB 001469-19-15SEP98

LOADING FRONT TWINE BOX (BALER WITHOUT SIDE TWINE BOX)

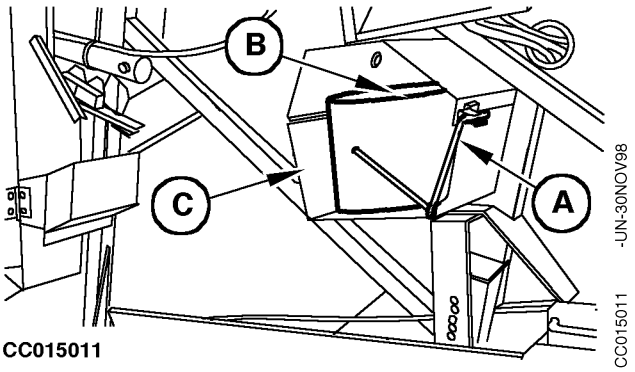
Open right-hand door.

Lower the ball separator lever (A) so that six balls (B) of good quality twine can be inserted in twine box compartment (C). Be sure twine is pulled from end of the ball marked “top”.

Raise ball separator lever (A) so that balls are well maintained in position.



CC015010



CC015011

CC,575RB 003564-19-15NOV98

LOADING TWINE BOXES (BALER WITH SIDE TWINE BOX)

Open right-hand door.

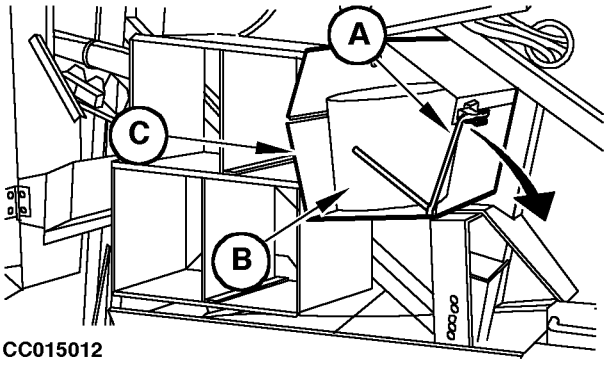
Lower ball separator lever (A).

Insert six balls (B) of good quality in front twine box compartment (C). Be sure twine is pulled from end of the ball marked “top”.

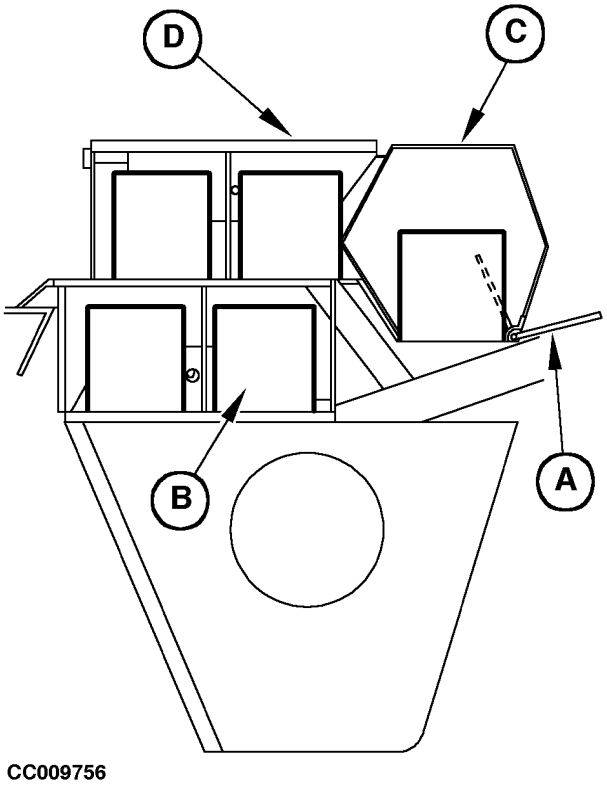
Raise ball separator lever (A) so that balls are well maintained in position.

Insert four balls (B) of good quality twine in side twine box (D) compartments. Be sure twine is pulled from end of the ball marked “top”.

A—Ball separator lever
B—Twine balls
C—Front twine box compartment
D—Side twine box



CC015012



CC009756

CC,575RB 003565-19-15NOV98

ROUTING TWINE OUT OF FRONT TWINE BOX (BALER WITHOUT SIDE TWINE BOX)

Open trash screen, then twine box cover (A).

NOTE: In joining twine, use a modified square knot with sisal twine and a sheet bend knot with plastic twine. Trim loose ends of twine as close to knot as possible.

- Pull inside twine end of the third left-hand ball through opening (D) and guide (E).

- Pull inside twine end of second left-hand ball through guide (B) and join it to the outside twine end of the third left-hand ball.

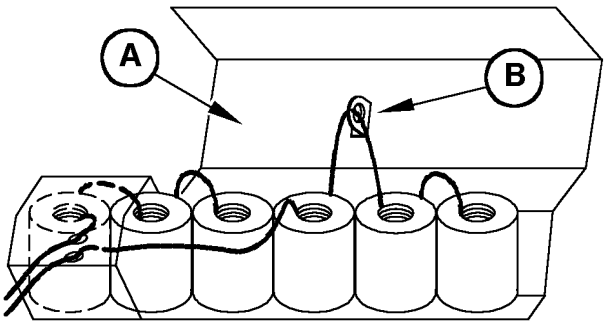
- Join the inside twine end of the first left-hand ball to the outside twine end of the second left-hand ball.

- Pull inside twine end of the sixth left-hand ball through opening (C) and guide (E).

- Join the outside twine end of the sixth left-hand ball to the inside end of the following ball, and so on up to the fourth left-hand ball.

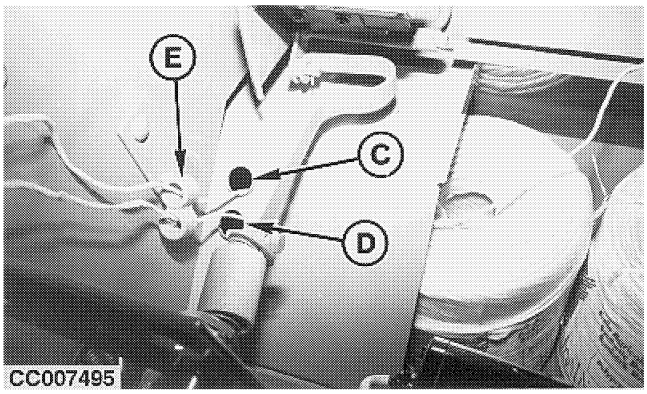
Close twine box cover (A).

Close right-hand door.



CC009757 -UN-21FEB97

CC009757



CC007495 -UN-25APR96

A—Cover
B—Guide
C—Opening
D—Opening
E—Guides

CC,575RB 003566-19-15NOV98

ROUTING TWINE OUT OF TWINE BOXES (SINGLE TWINE WRAPPING)

Open trash screen, then twine box cover (A).

NOTE: In joining twine, use a modified square knot with sisal twine and a sheet bend knot with plastic twine. Trim loose ends of twine as close to knot as possible.

- Pull inside twine end of the first right-hand ball of the front twine box through opening (C) and guide (D).

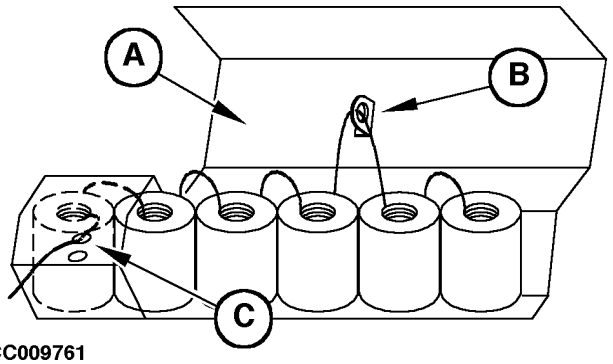
- Join the outside twine end of the first right-hand ball to the inside twine end of the second left-hand ball, repeat this process up to the fourth balls.

- Pull inside twine end of the fifth right-hand ball through guide (B) and join it to the outside twine end of the fourth right-hand ball.

- Join the outside twine end of the fifth right-hand ball to the inside twine end of the last ball.

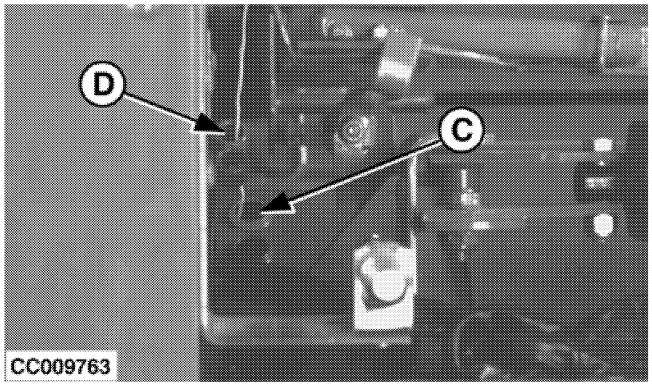
Close twine box cover (A).

Close left-hand door.



CC009761

CC009761 -UN-17FEB97



CC009763

CC009763 -UN-17FEB97

A—Cover
B—Guide
C—Opening
D—Guide

CC,575RB 003568-19-15NOV98

ROUTING TWINE OUT OF TWINE BOXES (BALER WITH SIDE TWINE BOX)

Open trash screen, then twine box cover (A).

NOTE: In joining twine, use a modified square knot with sisal twine and a sheet bend knot with plastic twine. Trim loose ends of twine as close to knot as possible.

- Pull inside twine end of the second right-hand ball of the front twine box through opening (D) and guide (E).

- Join the outside twine end of the second right-hand ball to the inside twine end of the third right-hand ball.

- Join the outside twine end of the third right-hand ball to the inside twine end of the fourth left-hand ball.

- Pull inside twine end of the fifth right-hand ball through guide (B) and join it to the outside twine end of the fourth right-hand ball.

- Join outside twine end of the fifth right-hand ball to the inside twine end of the last ball.

- Pull inside twine end of the first right-hand ball of the front twine box through opening (C) and guide (E).

- Pull inside twine of the first side twine box ball through opening (F) and (G) and join it to the outside twine end of the first front twine box right-hand ball.

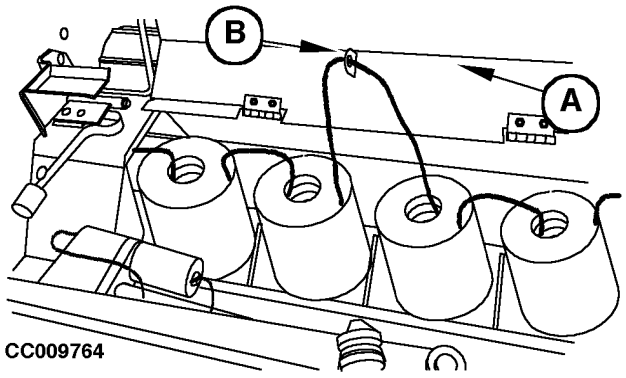
- Pull inside twine end of the second side twine box ball behind the partition and join it to the outside end of the first side twine box ball.

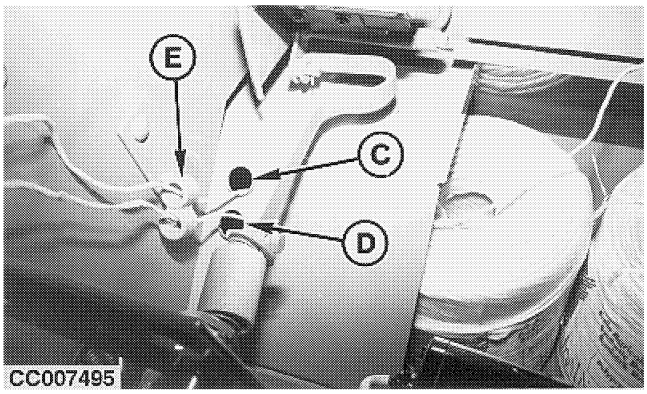
- Pull inside twine end of the third side twine box ball behind the side twine box and join it to the outside end of the second side twine box ball.

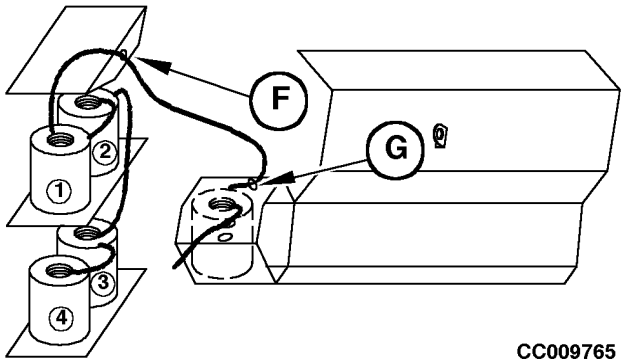
- Pull inside twine end of the fourth side twine box ball behind the partition and join it to the outside twine end of the third side twine box ball.

Close cover (A).

Close right hand door.







A—Cover
B—Guide
C—Opening
D—Opening
E—Guides
F—Twine guide
G—Opening

CC,575RB 003573-19-15NOV98

ROUTING TWINE THROUGH GUIDES (DOUBLE TWINE WRAPPING)

Route twines below twine tension plate (A).

Route one twine through guide (B).

Loop twines around pulleys (C) as shown.

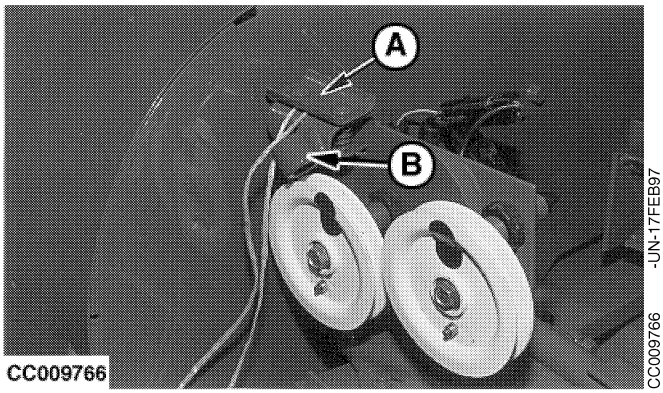
Route twines through eye (D).

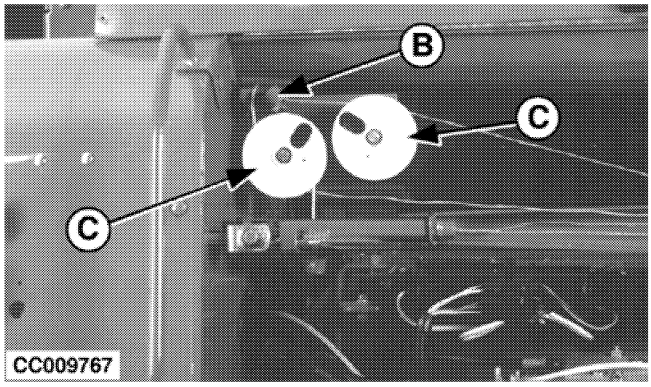
Route twines between guide pins (E) and place twines behind tension plate (F) as shown.

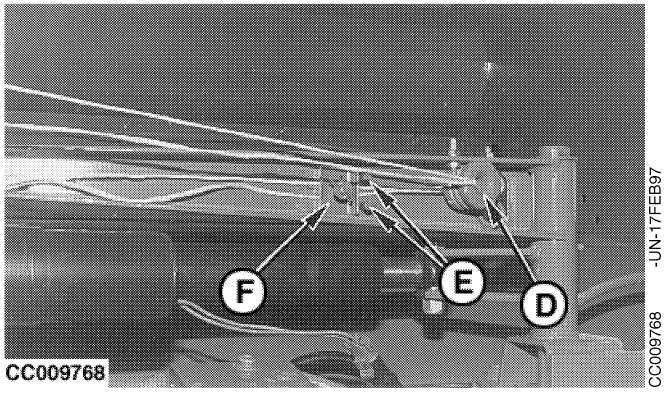
Thread twines through twine arm tubes (G). There must be 300 mm (12 in.) of twine exposed from end of twine arm.

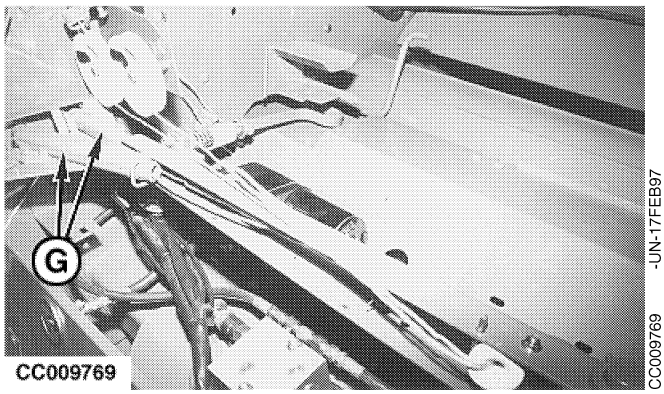
Close trash screen.

A—Tension plate
B—Twine guide
C—Pulleys
D—Eye
E—Guide pin
F—Tension plate
G—Twine arm tubes









CC,575RB 003574-19-15NOV98

ROUTING TWINE THROUGH GUIDES (SINGLE TWINE WRAPPING)

Route twine below twine tension plate (A).

Route twine through guide (B).

Loop twine around pulleys (C) as shown.

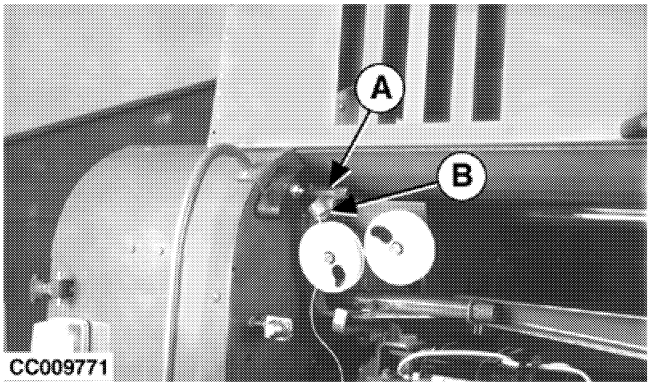
Route twine through eye (D).

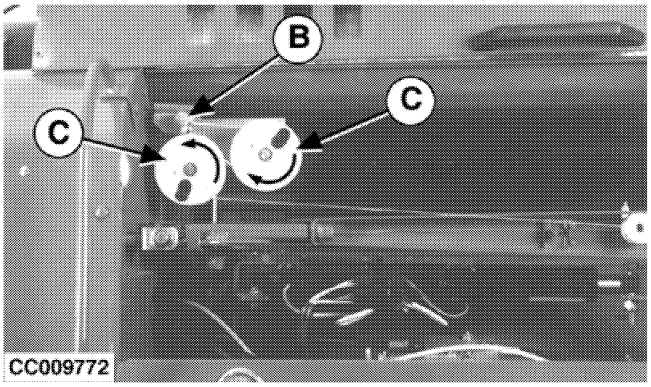
Route twine between guide pins (E) and place twine behind tension plate (F) as shown.

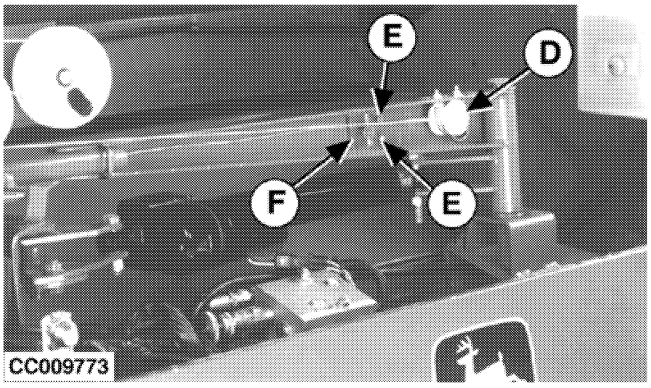
Thread twine through twine arm tube (G). There must be 300 mm (12 in.) of twine exposed from end of twine arm.

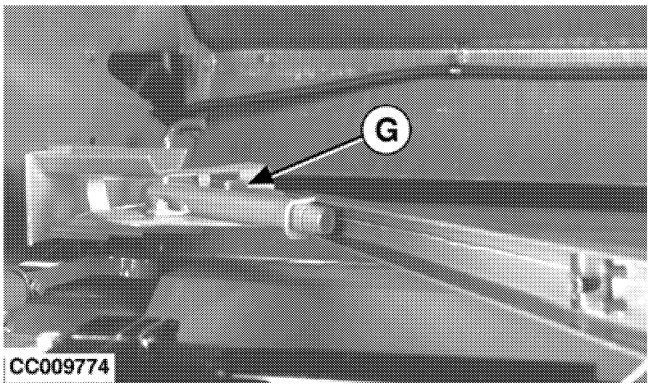
Close trash screen.

A—Tension plate
B—Twine guide
C—Pulleys
D—Eye
E—Guide pin
F—Tension plate
G—Twine arm tube









CC,565RB 004624-19-15NOV98

SELECTING NET ROLL

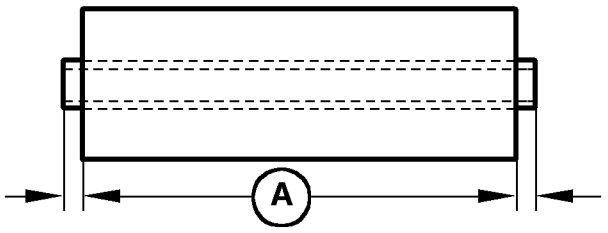
In order to achieve optimum performance, we recommend the use of net roll which meets the following specifications:

- Material: High density polyethylene.
- Density: Minimum 10 g/m^2 ±10% (0.033 oz/sq.ft.±10%).
- Strength (Wrap direction): 900 N/500 mm (662 lb/20 in.).
- Elongation: 15%±3%.
- Length: 3000±100 m (9842±305 ft.)
- Material width: 1222 +16 -11 mm (3.97 to 4.06 ft).
- Core width: Maximum 1255 mm (4.11 ft).
- Material/Core offset (A): 2 to 16 mm (0.08 to 0.63 in.) on both sides.

IMPORTANT: Net roll types with higher density can be used. In this case, make sure that net device is well adjusted and knife well sharpened. Refer to "Service" Section.

With a 3000 m (9842 ft.) long net roll, approx. 500 bales of 1.25 m (4.10 ft.) diameter can be wrapped with 1-1/2 turns of the net.

NOTE: Net roll diameter must not exceed 32 cm (12.6 in.)



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CC,570RB 003440-19-15SEP98

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.

CC,570RB 001466-19-15SEP98

CARE OF NET WRAPPING DEVICE

Before operating the baler proceed as follows:

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

It is recommended to use the following:

- A cloth dipped in liquid ammonia
- Soap water
- A 1:10 mixture of glycerine and spirits

- Apply talcum powder to rubber feed roll.

CC,570RB 003477-19-15SEP98

LOADING NET BOXES

• Net box (A) can only take one net roll at a time for the net wrapping process.

- Using foot steps, climb on the machine to open the upper cover (B) .

NOTE: The net roll brake (C) is lifted all the way up when opening the upper cover (B).

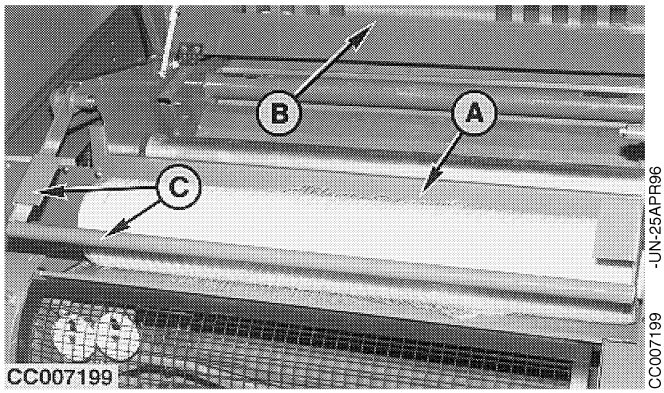
- Fully open right door of the baler, then slide net roll through the net box (A).

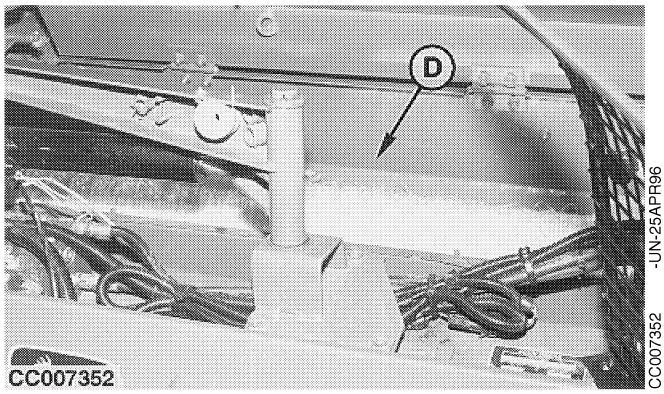
NOTE: Net box (A) includes a special ramp to help slide the roll through the box.

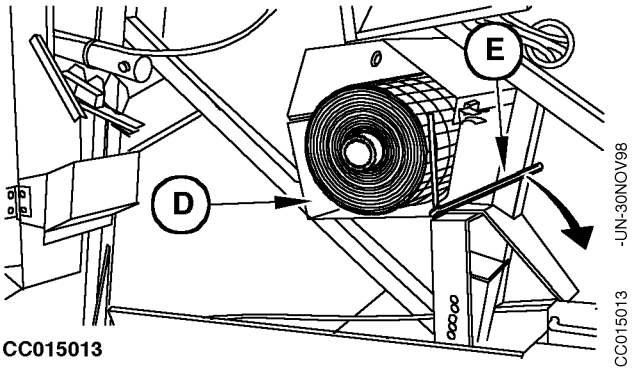
• Twine box compartment (D) can also be used to store a second net roll.

Move twine ball separator lever (E) to down position before sliding net roll in the twine box compartment (D).

A—Net box
B—Upper cover
C—Net roll brake
D—Twine box compartment
E—Separator lever







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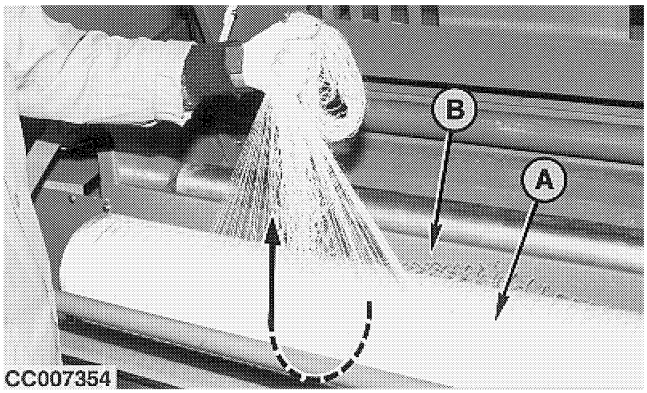
ROUTING NET THROUGH FEED ROLLS

Preparing Net Roll

CAUTION: Before installing net roll, shut off baler, switch off tractor engine, remove key and wait for moving parts to come to a standstill.

Install net roll (A) in net box (B) as shown.

Roll up 60 cm (24 in.) of net (A) then make a loop at the end of it.



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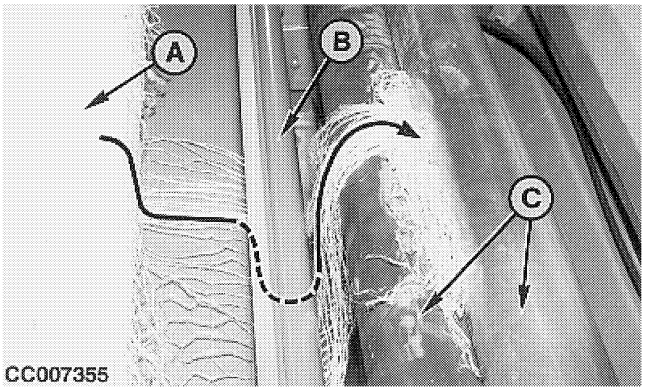
Routing Net Through Feed Rolls

Route net (A) so that it passes under roll (B) and place the loop of net just between the two feed rolls (C).

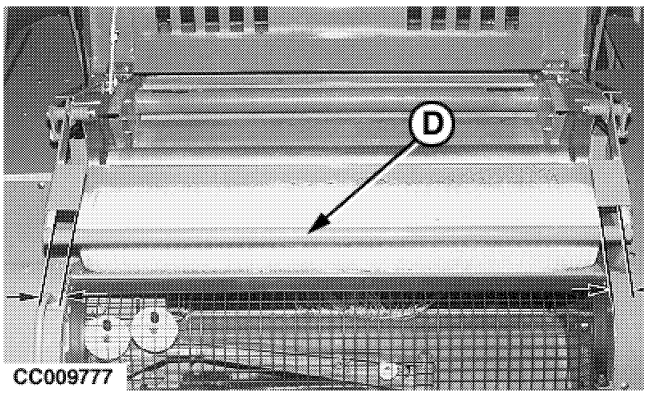
NOTE: Do not thread more than 25 mm (1 in.) of loop between the two rolls (C).

Close upper cover and right door of the baler.



IMPORTANT: When closing upper cover, always take care that net roll is centered in relation to the net roll brake (D).

A—Net roll
B—Net idler roll
C—Net feed rolls
D—Net roll brake



CC,575RB 003577-19-15NOV98

TIRE INFLATION

Tire type	Pressure
11.5/80 x 15.3 (10 PR)	207 kPa (2.1 bar; 30 psi)
500/40 - 17 (19/45 - 17) (10 PR)	138 kPa (1.4 bar; 20 psi)
500/50 - 17 (10 PR)	138 kPa (1.4 bar; 20 psi)
Pickup Gauge Wheel	138 kPa (1.4 bar; 20 psi)

CC,575RB 004012-19-15OCT97

ATTACHING BALER TO 540 RPM PTO

CAUTION: Never operate 540 rpm baler with 1000 rpm PTO.

The baler can be attached to any tractor equipped with a drawbar or trailer hitch and a 540 rpm PTO.

CC,575RB 001341-19-15NOV98

ATTACHING BALER TO DRAWBAR

To meet all tractor drawbar hitch configurations the tongue can be adjusted either at the articulation of the ball joint hitch or at the tongue base articulation.

Adjust tractor drawbar as described under “Adjusting Drawbar” in “Preparing the Tractor” Section.

• Loosen lock nuts (B), then tongue fixing nuts (A) and ball joint hitch fixing screw (C) so that tongue frame (D) and ball joint hitch (E) can be rotated by hand.

• Set the ball joint hitch (E) as horizontal as possible.

• Tighten tongue fixing nuts (A) to 700 N·m (516 lb-ft), lock nuts (B) to 300 N·m (221 lb-ft) and screw (C) to 620 N·m (450 lb-ft).

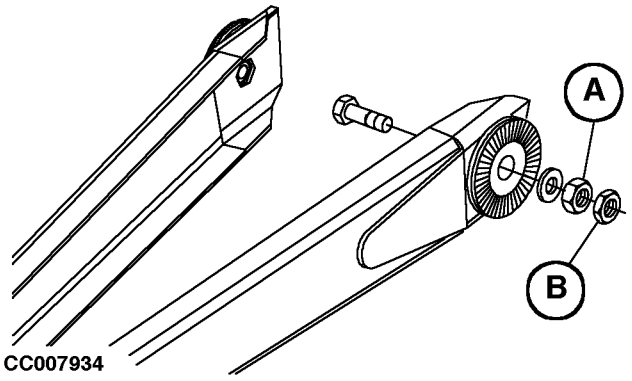
NOTE: Make sure that all rings are engaged (not standing tip to tip) when tightening screw (C) and nuts (A)-(B).

IMPORTANT: Slowly and carefully perform a short test with baler attached to the tractor and check that there is absolutely no interference between tongue frame (D) and hookup in short turns, as otherwise major damage on hookup will occur.
To avoid potential pickup feeding problems, always try to keep the machine as horizontal as possible.

Maximum allowed offset (F) between tongue base articulation and ball joint hitch (E) is 700 mm (27.56 in.). Readjust tongue and ball joint hitch position if necessary.

NOTE: Balers are delivered from the factory with the tongue positioned for hitching to drawbar.

A—Tongue fixing nuts
B—Lock nuts
C—Ball joint hitch fixing screw
D—Tongue frame
E—Ball joint hitch
F—700 mm (27.56 in.) maximum



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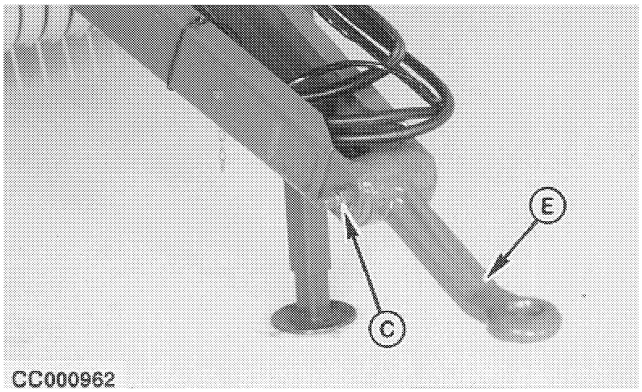

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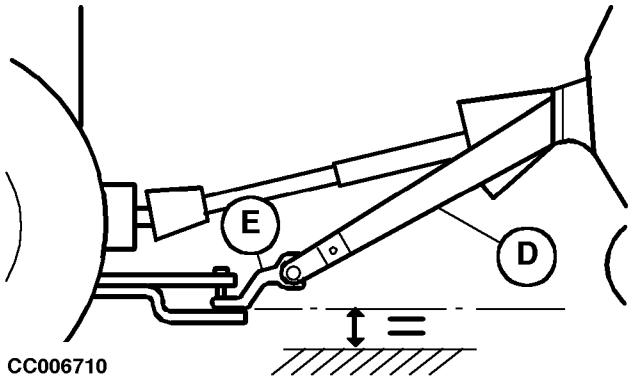

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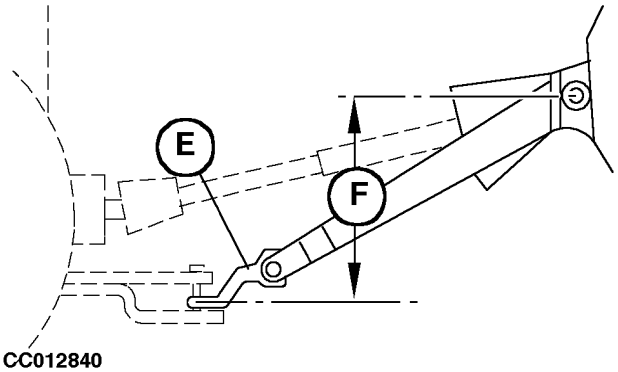

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CC,570RB 004003-19-15SEP98

ATTACHING BALER TO TRACTOR TRAILER HITCH

Clearance between ground and baler tongue can be increased by this hitching method. This is particularly convenient when baling very thick windrows.

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

Attach to trailer hitch as follows:

• Loosen lock nuts (B), then tongue fixing nuts (A) and hitch plate fixing screw (C) so that tongue frame (D) and hitch plate (E) can be rotated by hand.

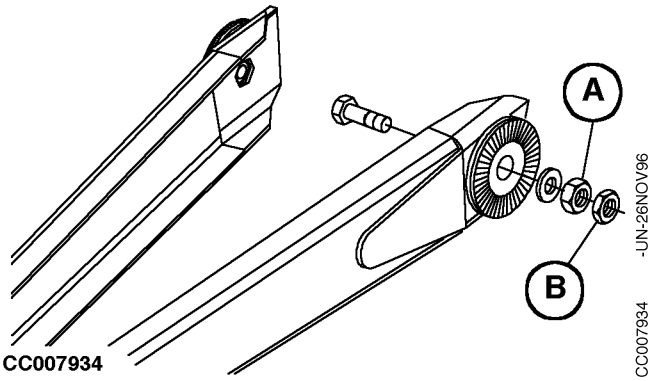
• Set the hitch plate (E) as horizontal as possible.

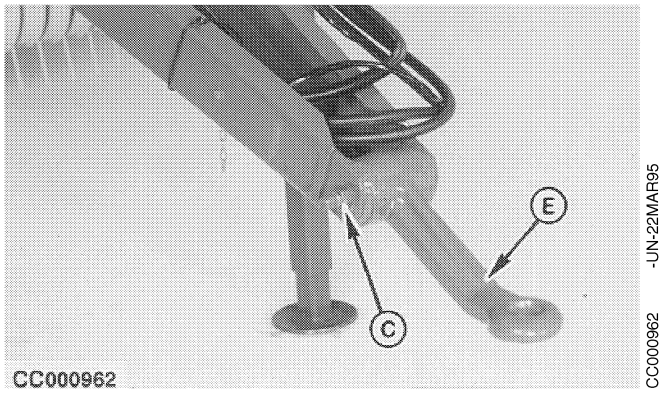
• Tighten tongue fixing nuts (A) to 700 N·m (516 lb-ft), lock nuts (B) to 300 N·m (221 lb-ft) and screw (C) to 620 N·m (450 lb-ft).

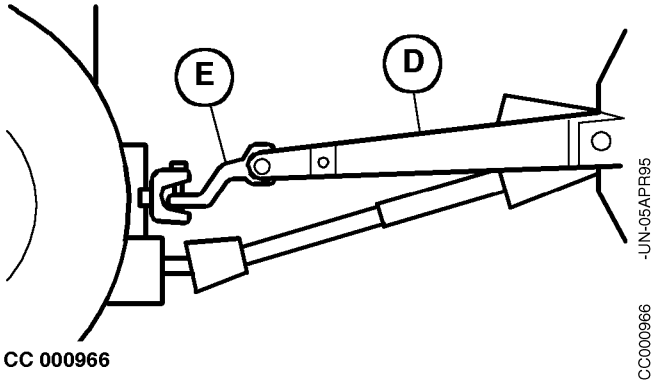
NOTE: Make sure that all rings are engaged (not standing tip to tip) when tightening screw (C) and nuts (A)-(B).

IMPORTANT: Slowly and carefully perform a short test with baler attached to the tractor and check that there is absolutely no interference between tongue frame (D) and hookup in short turns, as otherwise major damage on hookup will occur.
To avoid potential pickup feeding problems, always try to keep the machine as horizontal as possible.

Readjust tongue and hitch plate position if necessary.







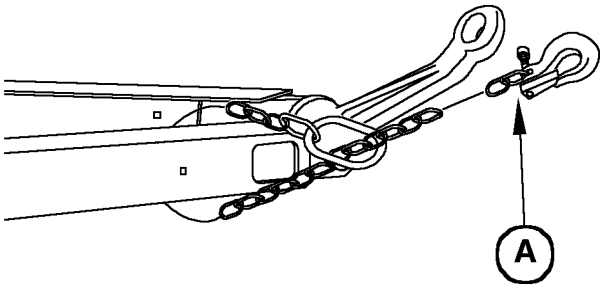
A—Tongue fixing nuts
B—Lock nuts
C—Hitch plate fixing screw
D—Tongue frame
E—Hitch plate

CC,570RB 004004-19-15SEP98

CONNECTING SAFETY CHAIN

If baler is equipped with safety chain (A), connect and fasten chain (A) to drawbar structure. Remove all slack except what is needed for turns.

IMPORTANT: Always observe local road traffic regulations when driving on public roads, especially in France where the use of safety chain is mandatory.



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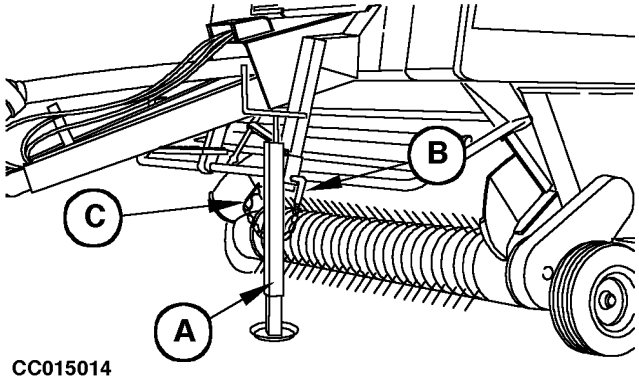
CC,570RB 003858-19-15SEP98

STORING JACKSTAND

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

Secure jackstand with pin (B) and quick-lock pin (C).



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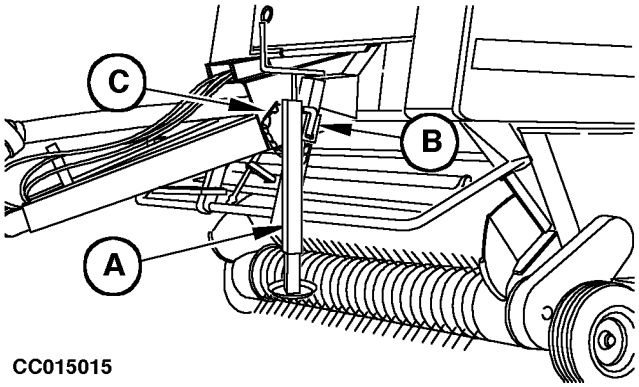
CC,575RB 001344-19-15NOV98

USING JACKSTAND

Before detaching tractor from baler, remove jackstand (A) from storage position and place it in position shown opposite.

Secure jackstand (A) with pin (B) and quick-lock pin (C).



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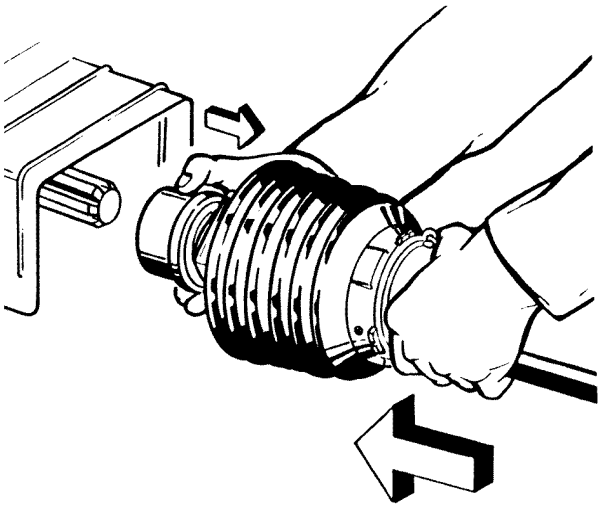
CC,575RB 001345-19-15NOV98

CONNECTING TELESCOPING HOOK-UP TO TRACTOR PTO SHAFT

CAUTION: Never attach telescoping hook-up while the tractor is running. Never use a steel hammer to connect or disconnect the hook-up on PTO shaft.

IMPORTANT: Keep hook-up and PTO shaft splines free from paint, dirt, chaff and burrs.

- Refer to the basic telescoping hook-up Operator's Manual to properly connect telescoping hook-up to the tractor PTO shaft.



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CC006613

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CONNECTING TELESCOPING HOOK-UP TO GEAR CASE INPUT SHAFT

CAUTION: Never attach telescoping hook-up while the tractor is running. Never use a steel hammer to connect or disconnect the hook-up on gear case input shaft.

IMPORTANT: Keep hook-up and gear case input shaft splines free from paint, dirt, chaff and burrs.

Refer to the basic telescoping hook-up Operator's Manual to properly connect telescoping hook-up to the gear case input shaft.

Before starting work, make sure all locks are securely engaged and safety chains are attached.

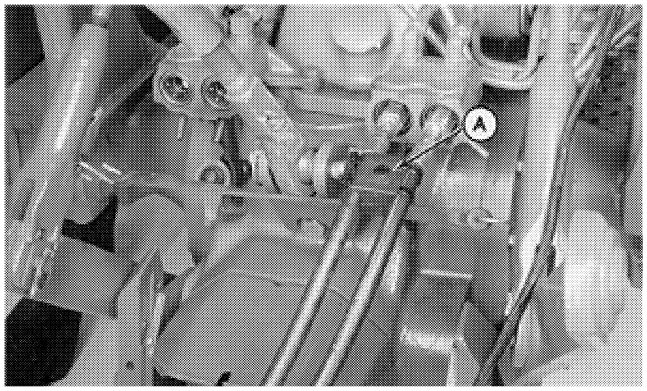
Reinstall all shields which have been removed to attach the hook-up.

Immediately replace any damaged plastic hook-up shields.

CC,575RB 003582-19-15NOV98

ATTACHING TO TRACTOR HYDRAULIC SYSTEM

CAUTION: 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.



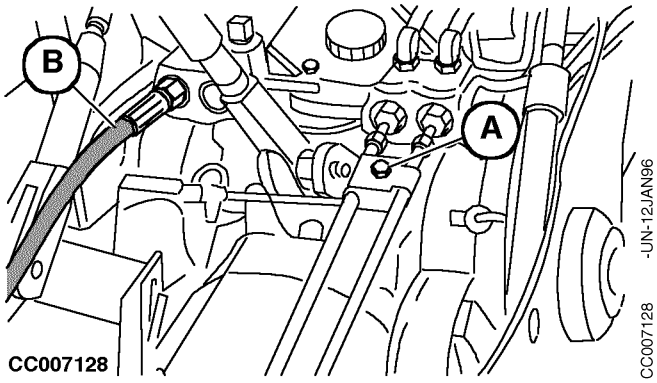
ISO hydraulic couplers are standard with the baler. If they do not fit the tractor, see your John Deere dealer for correct coupler.

On Baler Without Hydraulic Pickup Lift Device:

Attach right-hand hydraulic hoses (A) to tractor receptacle to operate the gate. When tractor selective control valve lever is moved rearward, the rear gate should open.

On Baler With Hydraulic Pickup Lift Device:

Attach left-hand hydraulic hose (B) to tractor receptacle to operate the pickup lift. When tractor selective control valve lever is moved rearward, the pickup should raise.



CC,565RB 004625-19-15NOV98

CONNECTING BALER WIRING HARNESS TO CONTROL MONITOR

Line up timing mark on connectors and tighten locking ring.

CC,565RB 004731-19-11FEB99

DETACHING TELESCOPING HOOK-UP FROM TRACTOR PTO SHAFT

Shut off engine and remove the key.

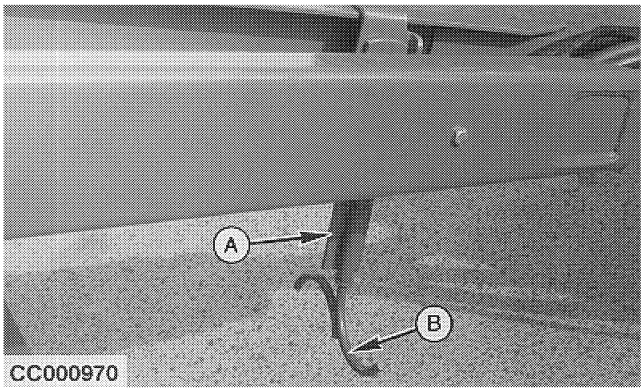
Refer to the telescoping hook-up basic Operator's Manual to properly detaching telescoping hook-up from the tractor PTO shaft.

Reinstall all shields, if removed.

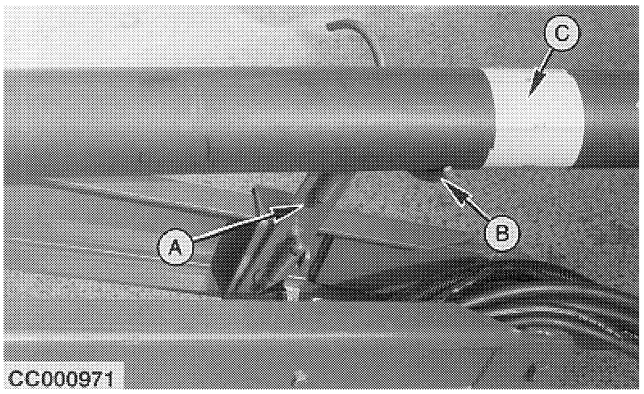
CC,570RB 002906-19-15SEP98

STORING TELESCOPING HOOK-UP

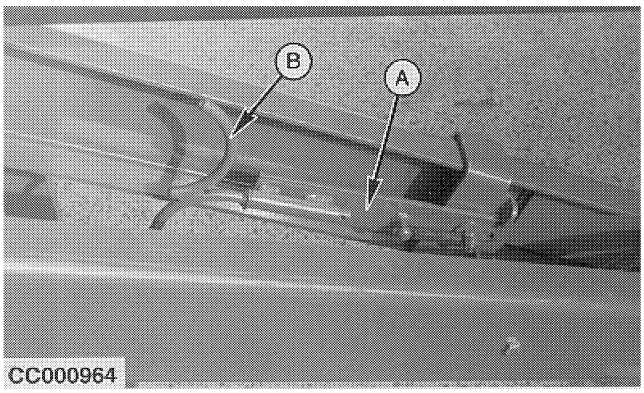
When baler tongue is adjusted for the use of the tractor trailer hitch, pull on support (A) and lower it as shown. Rotate hook (B) so that hook-up (C) can be stored on it.



When baler tongue is adjusted for the use of the tractor drawbar, pull on support (A) and raise it as shown. Rotate hook (B) so that hook-up (C) can be stored on it.



During baler operation, rotate hook (B) and store support (A) along the side tongue frame as shown.



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RECOMMENDED WARNING LIGHTS

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

CC,570RB 001487-19-15SEP98

PREPARING FOR TRANSPORT

Close gate, 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 transporting it on roads.

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

IMPORTANT: Always observe local road traffic regulation when driving on public roads, especially in France where the use of safety chain is mandatory (see "Connecting Safety Chain" in "Attaching and Detaching" Section).

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

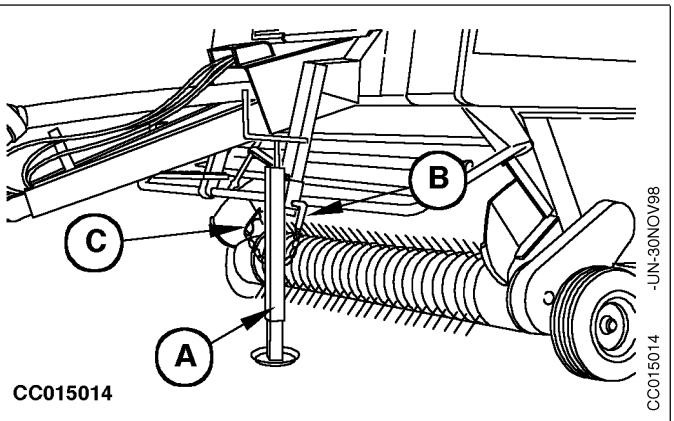
Do not tow baler at a speed exceeding 25 km/h (16 mph).

CC,570RB 003461-19-15SEP98

STORING JACKSTAND

Before transporting the baler after hitching to tractor, secure jackstand (A) in its storage position as shown.

Secure jackstand with pin (B) and quick-lock pin (C).



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BREAK-IN PERIOD

IMPORTANT: Rolls and drive loads increase as the bale size approaches maximum diameter. Frequent forming of oversize bales can lead to premature failures.

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 PTO hook-up liberally.

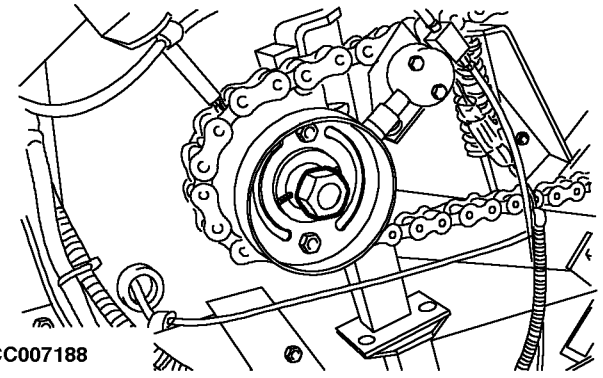
IMPORTANT: The baler is equipped with cam clutch. If slippage occurs during operation, disengage PTO and re-engage at low idle until cam clutch re-engages, then operate again at rated PTO speed.

CC,575RB 001362-19-15NOV98

ROTATING BALER BY HAND

CAUTION: DO NOT TAKE CHANCES! 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.

A spanner can be positioned on gear case output shaft of baler if it is necessary to rotate baler by hand.



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CC,575RB 003054-19-15NOV98

HOW THE NET WRAPPING WORKS

During the normal baling process, the drive belt (A) is loose and the net actuator (B) is in retracted position.

The net actuator (B) is automatically or manually actuated when the desired bale diameter is achieved.

The net actuator (B) is then quickly extended and moves the knife (C) away from net (D). This tensions drive belt (A).

Net feed rolls (E) then rotate and bring net (D) between front frame rolls “15” and “16” up to the bale assisted by the guide (F) (see “Baler Roll Numbering” in “Service” Section).

The bale catches the net and wraps it around itself. The speed around the bale is greater than the speed provided by net feed rolls (E). This creates a braking effect which tightly wraps the net all around the bale.

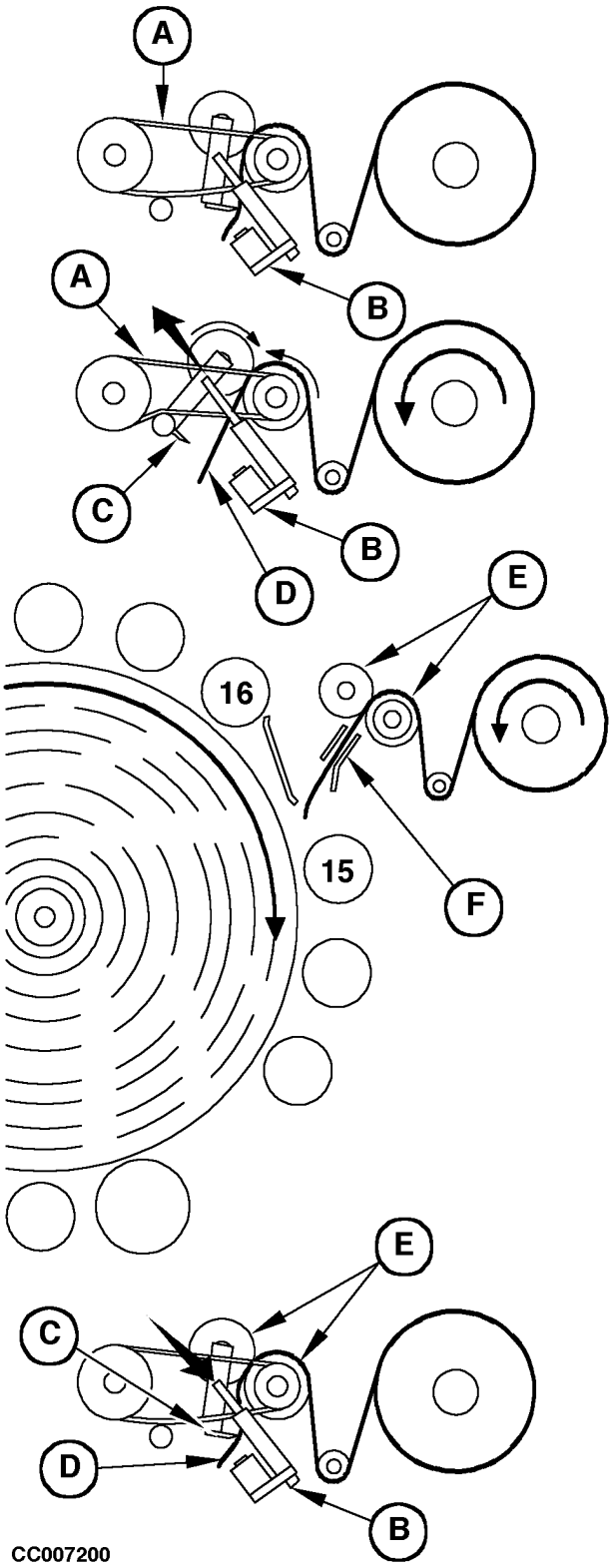
NOTE: The net should make between one and a half and several turns around the bale, depending on the operator’s setting.

Once the desired number of wraps is achieved, the net actuator (B) is quickly retracted and brings the knife (C) down against the net (D) disengaging the rotation of net feed rolls (E).

The net is cut and the cycle is completed.

Drive belt (A) is again loose.

A—Drive belt
B—Actuator
C—Knife
D—Net
E—Net feed rolls
F—Guide



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CC,575RB 003584-19-15NOV98

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.

CC,575RB 001354-19-15NOV98

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” in this Section.

Moisture content requirements for the round bale technique is up to 18% maximum.

• 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 providing the material is of sufficient length to hold the bale together.

CC,575RB 001355-19-15NOV98

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%.

CC,575RB 001356-19-15NOV98

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.

CC,575RB 001357-19-15NOV98

FEEDING THE MATERIAL

Full Pickup Width Windrows

This is the ideal windrow width.

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

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

CC,575RB 001358-19-15SEP98

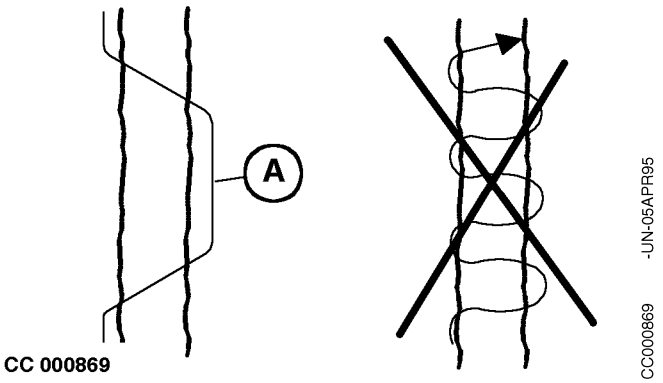
Narrow Windrows

Once the core is formed (after 2 to 3 m; 8 to 10 ft of forward travel), start the weaving pattern to feed material alternately into the sides of the pickup.

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 period. Reduce the “hold” period (A) in heavy windrows and increase it in lighter windrows.

NOTE: Another method is to watch the bale shape indicators until they start to move, then cross over to the opposite side.

Bales formed in this way will be more uniform than bales formed by continuously driving the tractor in a weaving pattern as shown. Continuous weaving results in excessive material being placed in the center of the bale.



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CC,565RB 004732-19-11FEB99

Medium-sized Windrows

Whenever possible, avoid medium-sized windrows.

When the operator will cross this type of windrow to feed the ends of the pickup, material will continue to be fed into the center. As a result, more material will be fed into the center of the bale than at the ends. This results in barrel-shaped bales.

CC,575RB 001360-19-15SEP98

OPERATING THE BALER IN SHORT, DRY, SLICK CROPS

In Case Of Plugging:

- Try one or more of the following methods:

• Raise pickup as high as practical.

• Reduce engine speed to 1500 rpm and shift to higher gear to maintain forward speed.

• Reduce bale density as necessary.

• Make larger windrows (rake together as necessary).

• Replace brocken pickup teeth.

• Whenever necessary, install the straw bar kit to improve the pickup to bale chamber feeding. See “Installing Straw Bar” in this Section.

CC,565RB 004627-19-15NOV98

OPERATING THE BALER IN CORNSTALKS

- Cut stalks prior to baling to improve pickup tooth life.

- Lower the pickup (teeth do not have to 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.

CC,565RB 004628-19-15NOV98

OPERATING THE BALER IN SILAGE AND DAMP CROPS

- Remove the straw bar if it is still installed on the machine.

- Always start the bale with pickup centered on the windrow.

- Reduce tractor engine speed to low idle before entering the windrow. Select a gear ratio which will give 6 to 10 km/h (4 to 6 mph) at rated PTO speed.

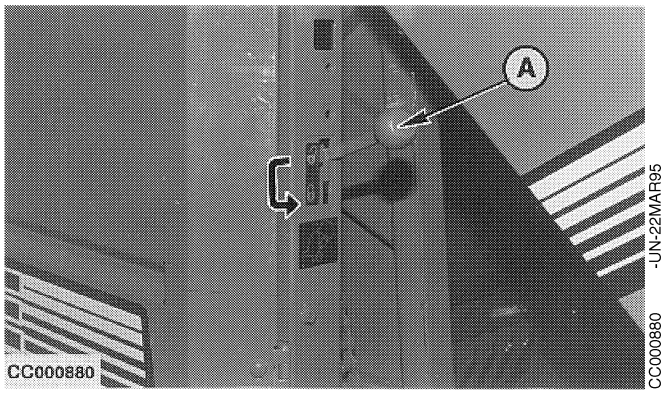
- To ensure smooth feeding, make sure tractor drawbar does not catch or disturb windrow.

CC,575RB 003173-19-15NOV98

GATE LOCK VALVE

CAUTION: Before working inside or around baler with an open gate, gate lock lever (A) must be moved to locked position. Use this safety feature any time gate is open. Close gate when leaving baler unattended.

This valve locks each gate lift cylinder independently with the gate in any position. If the hydraulic system fails on one side of the machine, the gate will still be held open.



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UNPLUGGING BALER

CAUTION: Never unplug baler manually before shutting off tractor.

Open gate.

Shutt off tractor.

Lock gate in “open” position. See “Gate Lock Valve” in this Section.

Remove bale core from bale chamber.

Unplug pickup by pushing crowded material with foot from inside the machine.

Make a new windrow with bale core removed and bale it.

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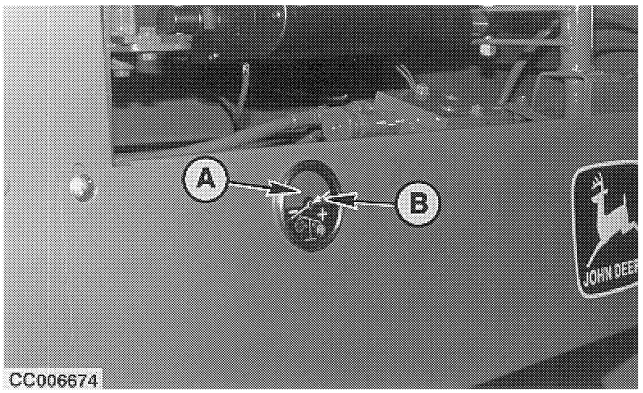
BALE DENSITY GAUGE



The gauge indicates the relative pressure within the hydraulic bale tensioning system while forming a bale.

Turning the bale density knob counterclockwise will cause the needle to move towards the minus sign and make lighter bales.

Turning the bale density knob clockwise will cause the needle to move towards the plus sign and make heavier bales.

See “Adjusting Gate Control Valve” in this Section.

NOTE: The gauge will not register a higher setting until more hay is fed into the baler.

The green band (A) represents normal baler operating pressure range.

If the needle reaches the red band (B):

- Reduce bale density.
- Check for faulty gauge or relief valve.
- Make sure tractor selective control valve returns to neutral while baling.

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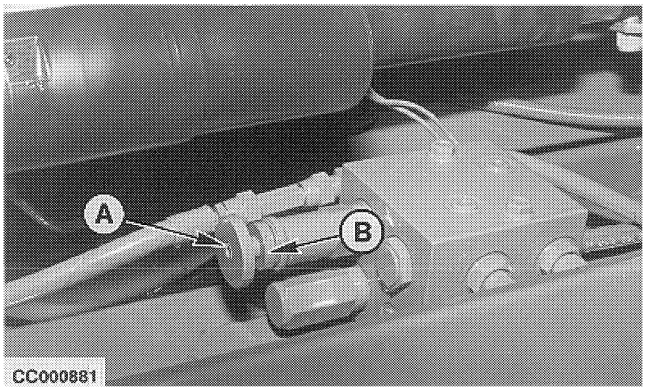
ADJUSTING GATE CONTROL VALVE



NOTE: To adjust bale density, close gate. This will allow bale density knob (A) to be turned more easily.

To obtain maximum bale density, loosen locking ring (B) and turn knob (A) clockwise until seated. If less compact bales are required, turn knob counterclockwise (maximum four turns from seated position). Tighten locking ring (B).

For initial adjustment on a new baler:

Loosen locking ring (B) and turn knob (A) clockwise until seated. Turn knob (A) counterclockwise $1^{1}/_{2}$ turns and tighten locking ring (B).

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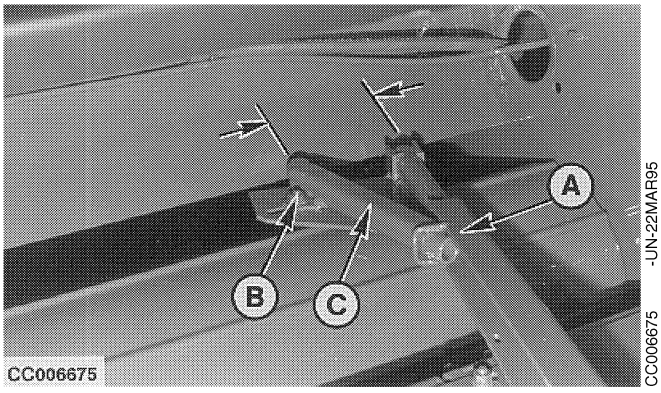
ADJUSTING TWINE SPACING



The double twine arm (A) can be adjusted to allow more or less space between twines around bale.

Loosen nut (B) and push arm (C) forward or backward to allow more or less space. Tighten nut (B).

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ADJUSTING FULL-SIZE BALE

Maximum Full-Size Bale:

- Open gate so that right-hand and left-hand gate dogs (A) are just in fully extended position (gate must be still in contact with dog tips).

- With the gate at that position the two bale shape indicator straps (B) must be in upmost position. Red zones must be flush with top of bale shape windows (C).

NOTE: If one of the red zones is below the top of bale shape windows (C), then readjust relevant bale shape indicator strap (B) before adjusting full-size bale. See "Adjusting Bale Shape Indicator Straps" in the "Service" Section.

- Unscrew wing nut (D) and put ramp (E) into the rearmost slot (F) so that switch roller (G) is just level with the edge of ramp (E) as shown. This is the maximum full-size bale permissible.

- Tighten wing nut (D).

Intermediate Full-Size Bale:

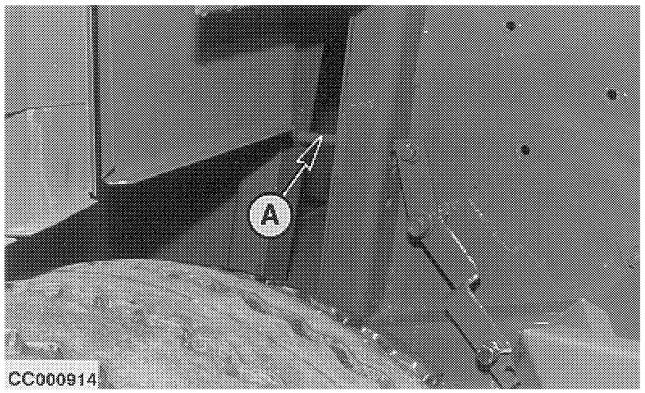
Whenever necessary, full-size bale can be adjusted within the gate dogs (A) extension range to get less bale density.

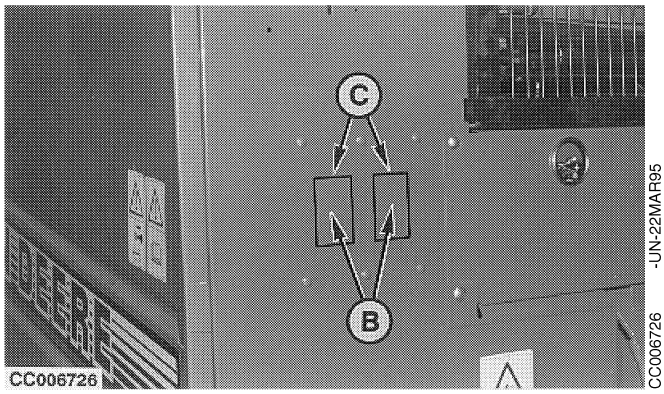
- Unscrew wing nut (D) to readjust ramp (E) position by using one of the other slots (F), changing switch actuation accordingly.

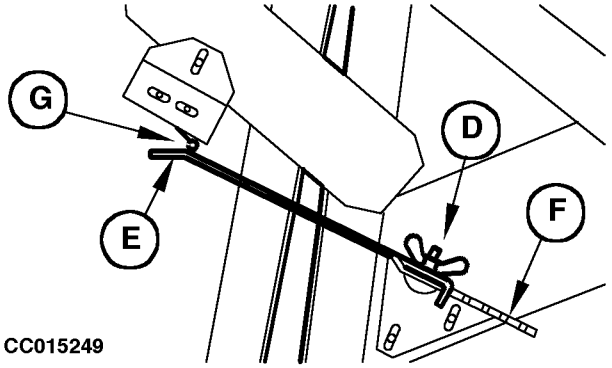
- Slowly open the gate until switch roller (G) is just level with the edge of the ramp (E).

- Tighten wing nut (D).

- Re-adjust bale shape indicator straps (B) in upmost position. Red zones must be flush with top of bale shape windows (C). See "Adjusting Bale Shape Indicator Straps" in the "Service" Section.







A—Gate dogs
B—Bale shape indicator straps
C—Bale shape windows
D—Wing nut
E—Ramp
F—Slot
G—Switch roller

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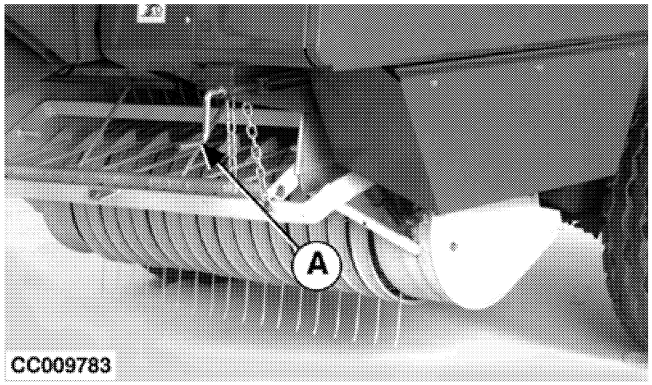
ADJUSTING PICKUP HEIGHT (BALER WITH STANDARD PICKUP)

The final adjustment will be determined by field conditions. To raise pickup, turn crank (A) clockwise; to lower pickup, turn crank (A) counter-clockwise.

NOTE: If the baler is equipped with a hydraulic pickup lift, the crank acts as the downstop, controlling pickup operating height. This feature allows pickup to return to same operating height after raising and lowering.



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ADJUSTING PICKUP HEIGHT (BALER WITH WIDE PICKUP)

Gauge wheels (A) are designed to be constantly in contact with the ground. Adjust pickup height by positioning gauge wheel support (B) as follows:

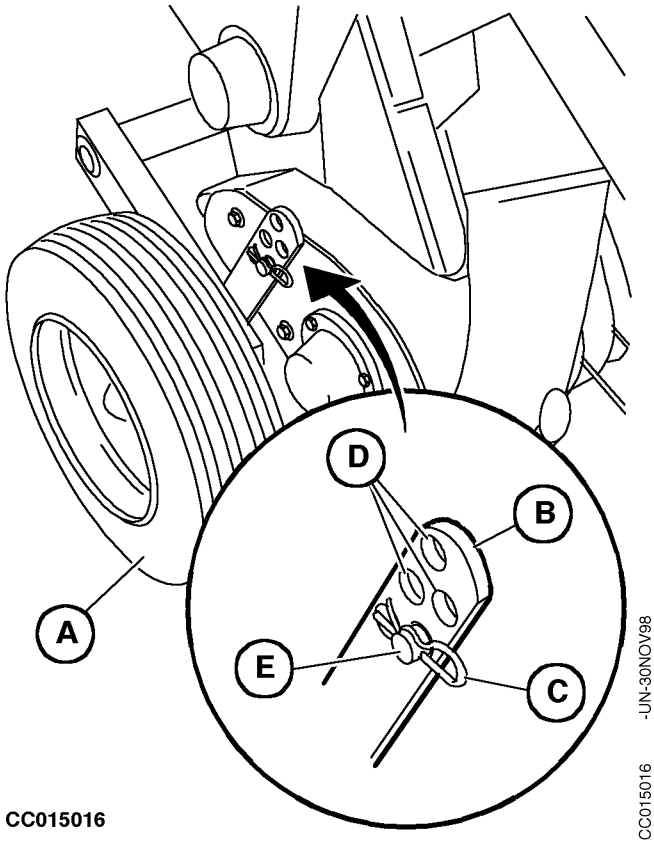
- Act on selective control valve lever to fully raise the pickup.

- Remove spring-locking pin (C) then choose one of the positioning holes (D) to fix support (B) on stud (E). Install spring-locking pin (C).

- Repeat procedure on opposite side.

- Act on selective control valve lever to fully lower the pickup.

A—Gauge wheel
B—Gauge wheel support
C—Spring-locking pin
D—Positioning holes
E—Stud



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ADJUSTING TWINE GUIDE

Depending on the crop type, the twine guide (B) allows the operator to adjust the distance of the twine from the right end of the bale from 80 to 150 mm (3.15 to 5.90 in.).

On baler with Electronic Wrapping Control Monitor, check that the twine guide position matches the re-extension point setting. See “Electronic Wrapping Control Monitor—Programmed Mode” in “Operating Electronic Wrapping Control” Section.

Adjust twine guide as follows:

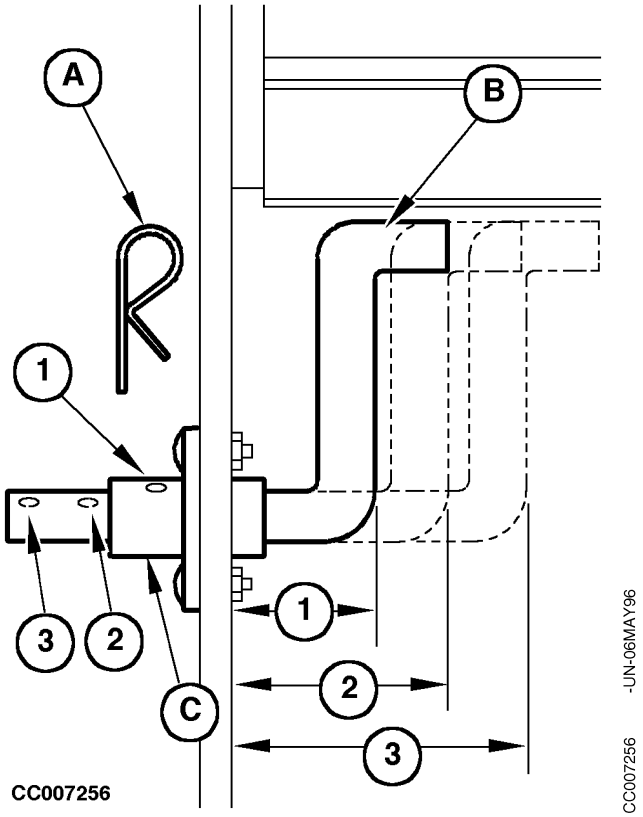
- Remove spring-locking pin (A).

- Slide twine guide rod (B) to align its hole with one of the twine guide tube (C) positioning holes (1-2-3).

- Install spring locking pin (A).

NOTE: When using the baler for dry, slick crops such as straw, align hole in twine guide rod (B) with inside hole (3) of twine guide tube (C).

When using the baler in normal operating conditions, align hole in twine guide rod (B) with outside hole (1) of twine guide tube (C).



A—Spring-locking pin
B—Twine guide
C—Twine guide tube
1—80 mm (3.15 in.)
2—115 mm (4.52 in.)
3—150 mm (5.90 in.)

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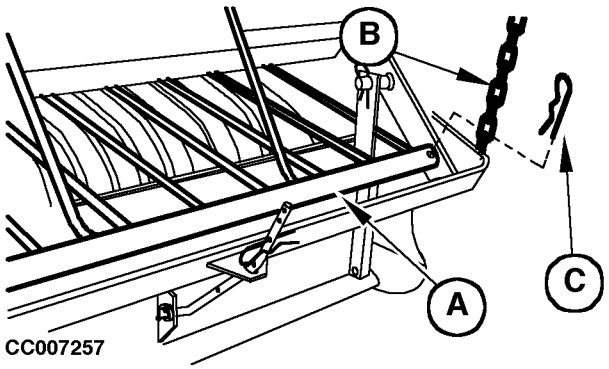
ADJUSTING COMPRESSOR RACK ASSEMBLY (BALER WITH STANDARD PICKUP)

The compressor rack assembly (A) position can be adjusted in several positions by means of the retaining chains (B).

NOTE: Make sure the chains have the same length on both side.

Whenever necessary, the compressor rack (A) can be removed. Remove spring-locking pin (C), then slide rack assembly (A) to the right-hand side to remove it.



Standard pickup shown

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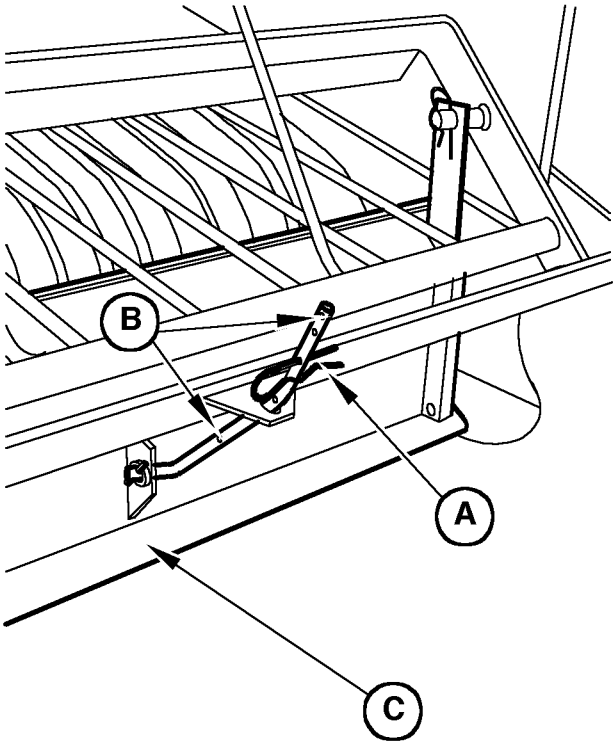
POSITIONING SHORT CROP DEFLECTOR

Depending on the windrow thickness, insert spring-locking pin (A) into one of the positioning holes (B) to obtain the desired space between tip of pickup teeth and short crop deflector (C).

NOTE: Distance between ground and short crop deflector bottom (C) can also be adjusted by means of the retaining chains.

Make sure the chains have the same length on both side.



Standard pickup shown

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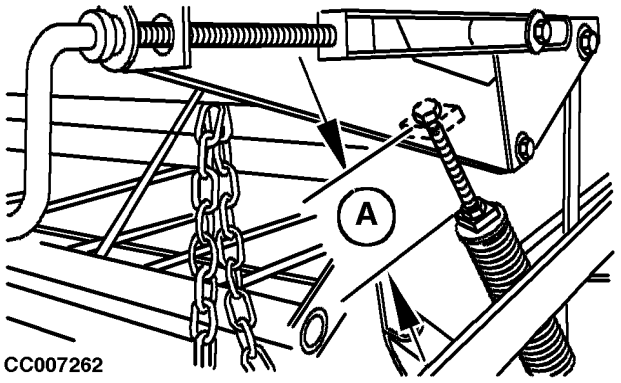
ADJUSTING PICKUP FLOAT SPRING (BALER WITH STANDARD PICKUP)

Adjust float by tightening screw into spring plug until dimension (A) is attained.

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—50 mm (1.96 in.)



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ADJUSTING PICKUP FLOAT SPRING (BALER WITH WIDE PICKUP)

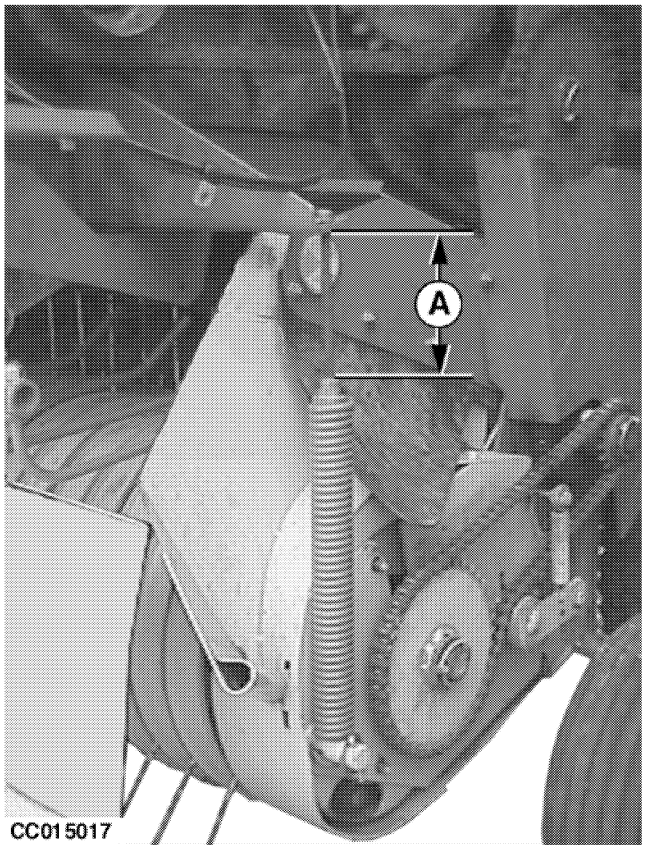
Fully lower pickup.

Adjust float by tightening screw into spring plug until dimension (A) is attained.

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

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

A—190 mm (7.48 in.)



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ADJUSTING LUBRICATION PUMP FLOW

Lubrication pump (A) stroke can be adjusted to furnish more or less oil flow at the lubrication brushes (B).

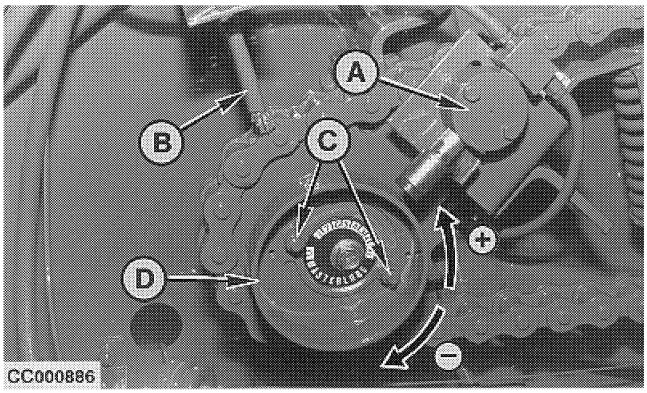
Adjust pump stroke as follows:

- Loosen the two pump cam lock nuts (C).

- Pull on the pump (A) then rotate pump cam (D) counterclockwise to increase oil flow or clockwise to decrease oil flow. Up to 7 slots can be used to adjust flow.

- Tighten lock nuts (C).

NOTE: The brush flow can also be separately adjusted by using different brush valve diameters. See "Adjusting Chain Oiling System Brush Flow" in this Section.



A—Pump
B—Brushes
C—Lock nuts
D—Pump cam

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ADJUSTING CHAIN OILING SYSTEM BRUSH FLOW

Whenever necessary, the oil flow at each brush (A) from the chain oiling system can be independently adjusted. As a matter of fact, each brush oil flow is regulated by a metering valve (B) having different restriction diameter.

- Four valve types are available:

• 1.36 to 1.84 cc/min.
• 0.68 to 0.92 cc/min.
• 2.72 to 3.68 cc/min.
• 5.44 to 7.36 cc/min.

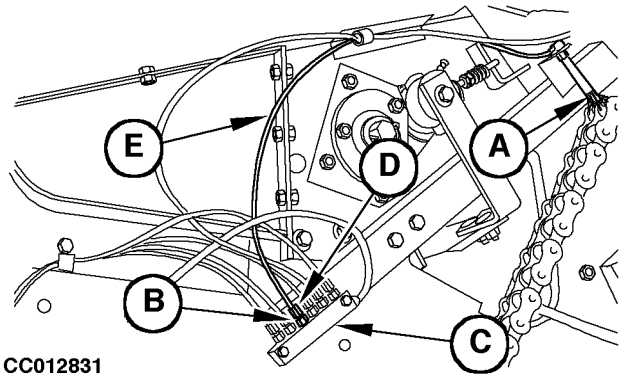
The different metering valve types are available through regular parts channels and can be installed at any port of the manifold (C) to regulate oil flow of the relevant brush.

Proceed as follows:

- Unscrew fixing nut (D) of plastic hose (E). Pull out plastic hose.

NOTE: If plastic hose has been marked by the metering valve sealing components, cut the hose just above this mark so that no oil leakage will occur when installing hose into a new valve.

- Remove metering valve (B) from manifold (C). Install and tighten a new metering valve instead, then insert plastic hose (E) back in metering valve. Slightly tighten fixing nut (D) just enough to get no oil leakage.



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A—Brush
B—Metering valve
C—Manifold
D—Fixing nut
E—Plastic hose

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INSTALLING STRAW BAR

To improve the crop flow between pickup and bale chamber when baling short and brittle straw, the straw bar must be installed on the machine.

Proceed as follows:

- Open gate.

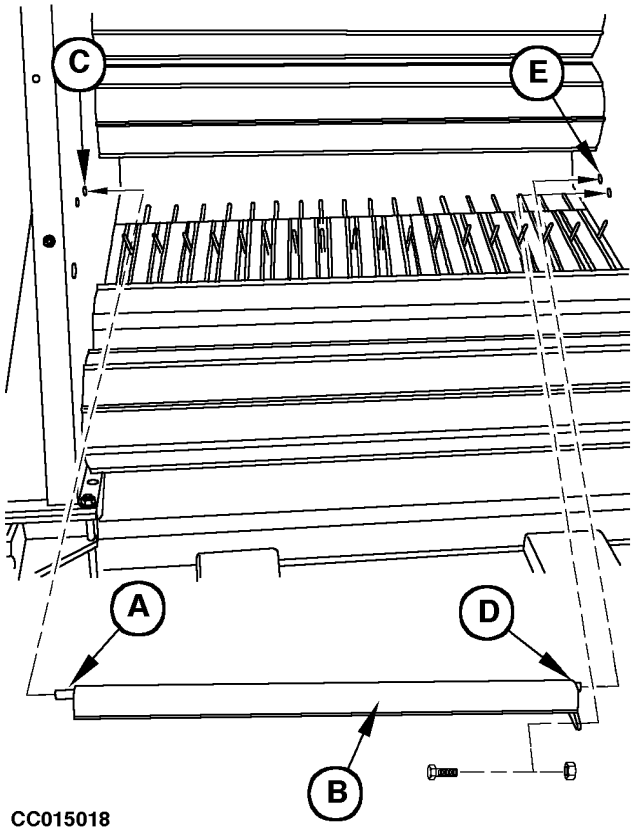
- Lock gate in “open” position. See “Gate Lock Valve” in this Section.

- Shut off tractor.

- Insert the l.h. pin (A) of the bar (B) first into l.h. front fixing hole (C) then slide the bar (B) to the right to insert the r.h. pin (D) in its fixing hole (E) as shown.

- Attach the bar (B) to the r.h. side of the bale chamber using the existing hardware.

A—L.h. pin
B—Bar
C—L.h. fixing holes
D—R.h. pin
E—R.h. fixing hole



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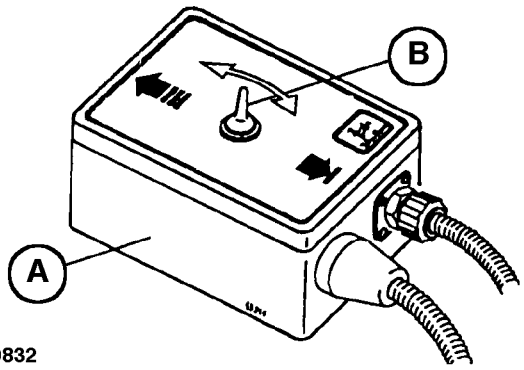
MANUAL TWINE CONTROL

The Manual Twine Control (A) allows the operator to manually control the twine wrapping cycle by using the switch (B) to distribute the twine across the bale.

Once connected to the baler wiring harness, the Manual Twine Control (A) is ready to operate and baling process can be started (see “Forming a Bale” in this Section).

NOTE: The Manual Twine Control includes an electronic limit switch which allows a full twine arm actuator protection from any improper use.

The sound level of the buzzer is adjustable.



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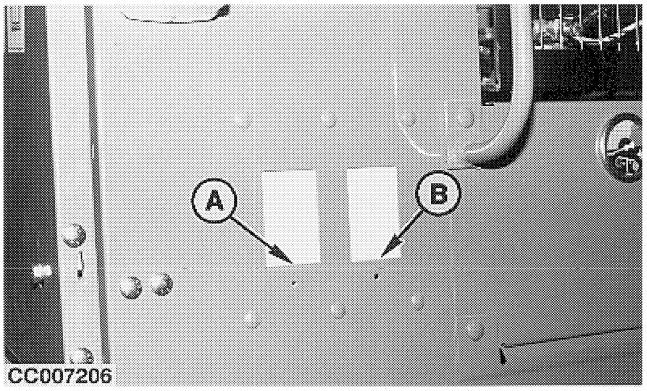
FORMING A BALE

CAUTION: DO NOT TAKE CHANCES! 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.



Prior to forming a bale, prepare the machine for baling as described in “Preparing the Baler” Section.

- Adjust desired full-size bale (see “Adjusting Full-Size Bale” in this Section).

- Operate tractor at PTO rated speed.

- Move selective control valve lever to close gate, then shift lever to neutral. Check that both bale shape indicators (A)-(B) are in downward position (red lines must be at bottom of bale shape windows). If not, gate is not correctly closed. Check for obstructions.

- Engage PTO, then start to feed the baler as described in “Feeding The Material” in this Section. Glance back and check movement of bale shape indicators (A)-(B).

Continued overleaf

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Weaving To The Right:

If left-hand bale shape indicator (A) remains in the down position while right-hand indicator (B) has risen, weave to the right over windrow to bring more material to left-hand side of pickup.

Weaving To The Left:

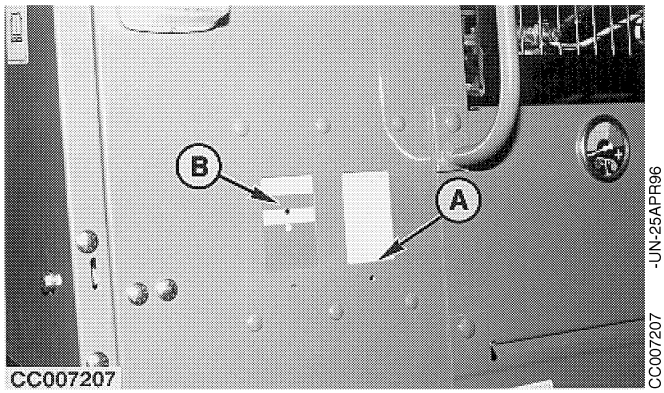
If right-hand bale shape indicator (B) remains in the down position while left-hand indicator (A) has risen, weave to the left over windrow to bring more material to right-hand side of pickup.

- Continue to feed material up to the desired full-size bale. At that time a short sound alarm (about 1 second) is emitted as the wrapping cycle should start.

IMPORTANT: At the end of bale formation, the two red zones of bale shape indicators (A) and (B) will be at the top of bale shape windows. This corresponds to the maximum bale size accepted by the baler.

- Stop forward travel of tractor and back up 2 to 3 m (8 to 10 ft) (not necessary if baler is equipped with discharging ramp).

- Wrap the bale as described in “Wrapping a Bale” in this Section.



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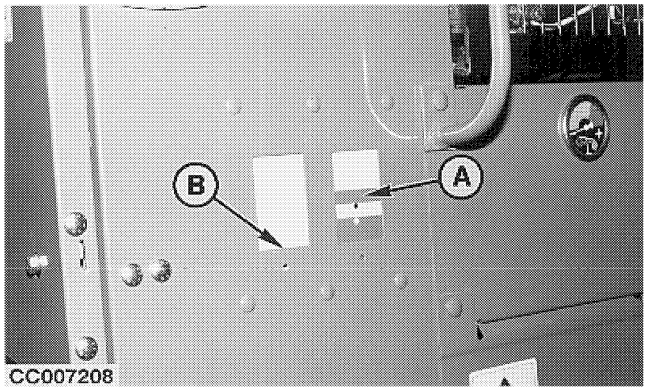

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WRAPPING A BALE

- Move twine arm by means of manual control switch (A) to the extreme left-hand position. Check pulleys (B) to make sure twines have been caught. Hold the twine arm in this position for some seconds to ensure a sufficient number of twine coils at the left end of the bale. This will ensure a stronger wrapping.

- Bring back twine arm to “HOME” position by means of manual control switch (A). Stop the return movement several times to ensure a sufficient number of twine coils around the bale.

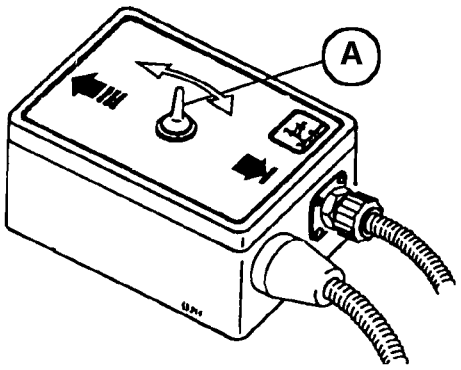
- Just before twine arm reaches “HOME” position, stop twine arm for few seconds to ensure a sufficient number of twine coils around the right end of bale.

- Let twine arm finish its movement and trip twine cutter linkage.

IMPORTANT: The actuator motor is protected by a thermic fuse. If manual control switch (A) is actuated when actuator is fully extended or fully retracted, the thermic fuse will trip. In this case wait until fuse resets.

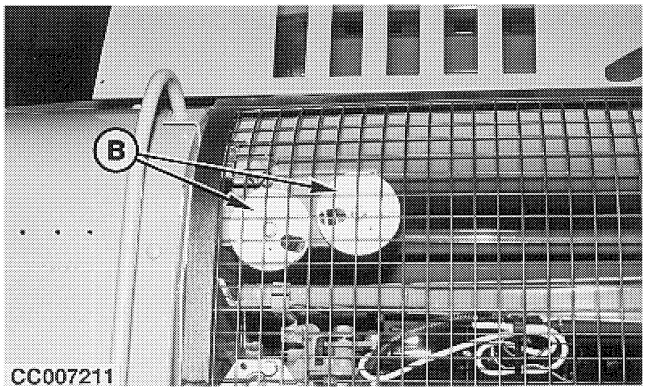
If thermic fuse trips, disengage PTO, otherwise twine will continue to unwind. Engage PTO again when thermic fuse resets.

The bale is now ready to be discharged. See “Discharging Bale” in this Section.



CC001250

CC001250 -UN-16FEB96



CC007211

CC007211 -UN-25APR96

CC,575RB 004023-19-15NOV98

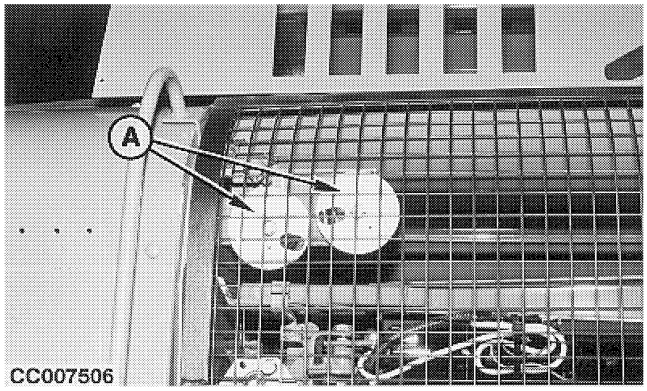
DISCHARGING BALE

- To ensure twine is cut, glance back to see that twine pulleys (A) have stopped rotating.

- Keep PTO engaged as it will allow the bale to be discharged.

- Raise gate.

- Drive forward to clear bale (not necessary if baler is equipped with bale discharging ramp) and close gate.



CC,575RB 004024-19-15NOV98

ELECTRONIC WRAPPING CONTROL MONITOR

The Electronic Wrapping Control Monitor (A) allows a programmed or manual bale net and twine wrapping mode with automatic or manual start.

Operating Monitor in Programmed Twine Wrapping Mode:

1. Press on “Twine” symbol side of switch (K) to select twine wrapping mode.

NOTE: Switch (K) is located on the monitor wiring harness near the monitor.

2. Determine the twine arm re-extension point (J) (before twine arm returns to its home position) by using the adjustable screw (B). This re-extension allows more twine coils at the end of bale wrapping (e.g. when baling straw).

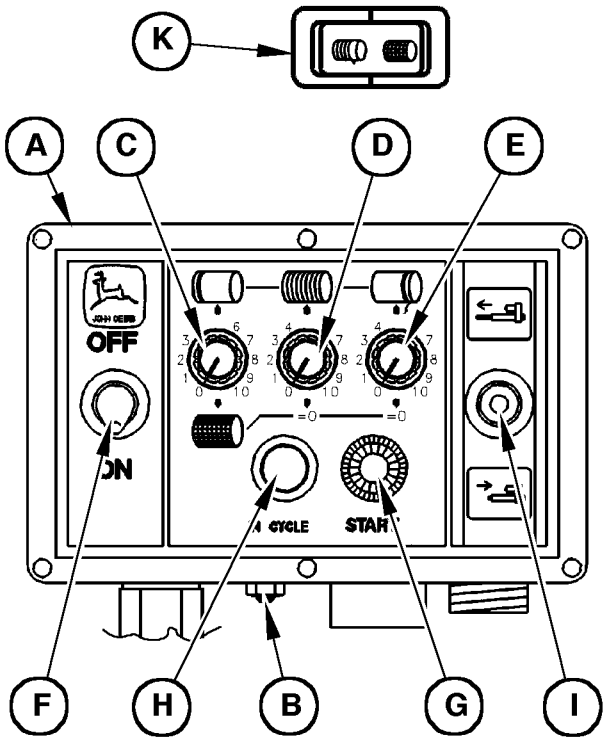
- Turn screw (B) clockwise or counterclockwise to adjust distance of re-extension point (J) from the side of the bale chamber. As a basic adjustment, re-extension point (J) should be located 120 mm (4.72 in.) from the side of the bale chamber.

NOTE: Re-extension point and twine guide adjustments should match so that no interferences occur. See “Adjusting Twine Guide” in “Operating the Baler - General Purposes” Section.

3. Select wrapping time sequence by adjusting the potentiometers (C)-(D)-(E) to determine the twine distribution across the bale.

- Turn potentiometer (C) clockwise to adjust the stop time of twine arm in its upmost extended position from 0.1 to 10 seconds.

A—Monitor
B—Adjustable screw
C—R-H side twine distribution potentiometer
Net wrap density potentiometer
D—Middle twine distribution potentiometer
E—L-H side twine distribution potentiometer
F—“ON/OFF” switch
G—“START” button
H—“IN CYCLE” light
I—Manual control switch
J—Re-extension point
K—Net/Twine wrapping mode switch



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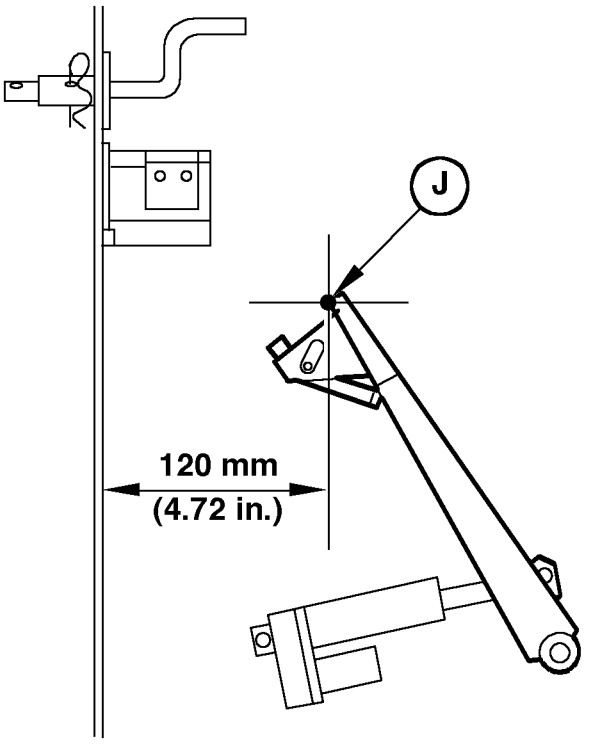
CC015243



CC007201 -UN-06MAY96

CC007201

Continued overleaf

CC,565RB 004739-19-11FEB99

Operating Monitor in Programmed Twine Wrapping Mode (continued)

- Turn potentiometer (D) clockwise to adjust the wrapping time across the bale during twine arm retraction from 8 to 70 seconds.

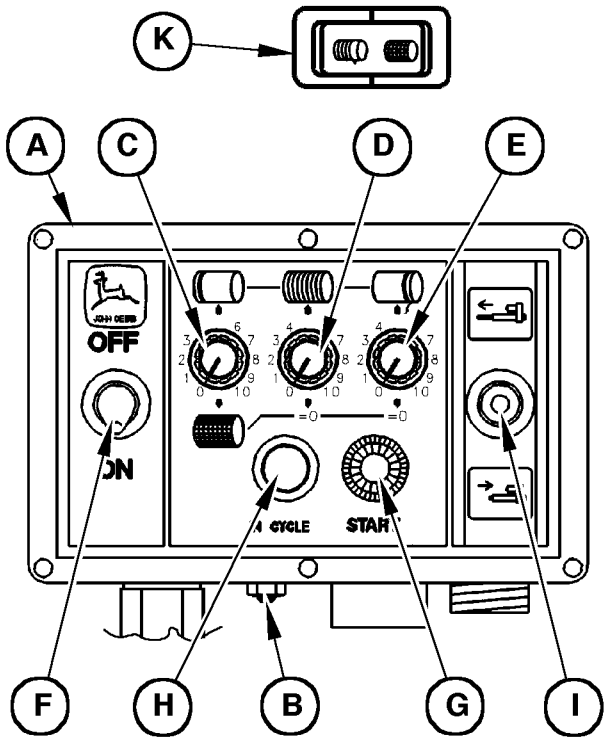
- Turn potentiometer (E) clockwise to adjust the twine arm re-extension time at the re-extension point determined by adjustable screw (B) from 0 to 5 seconds. Setting potentiometer (E) to position “0” will result in no re-extension of the twine arm.

- Switch ON switch (F), monitor is now ready to operate and baling process can be started (see “Forming a Bale” in this Section).

NOTE: “START” button (G) can be pressed to activate the programmed mode if wrapping cycle requires to be started before the bale has reached the desired diameter. See “Wrapping a Bale—Programmed Mode” in this Section.

“IN CYCLE” light (H) glows continously once “START” button (G) is pushed and will flash at the end of wrapping cycle. If necessary, till the light is glowing, a new wrapping cycle can be started by pushing “START” button (G).

NOTE: Manual Control switch (I) can be used to interrupt the programmed mode at any time. The manual mode is then ready to be used. See “Manual Twine Wrapping Mode” in this Section..



CC015243 -UN-11FEB99

CC015243

A—Monitor
B—Adjustable screw
C—R-H side twine distribution potentiometer
Net wrap density potentiometer
D—Middle twine distribution potentiometer
E—L-H side twine distribution potentiometer
F—“ON/OFF” switch
G—“START” button
H—“IN CYCLE” light
I—Manual control switch
J—Re-extension point
K—Net/Twine wrapping mode switch

Continued overleaf

CC,565RB 004740-19-11FEB99

Operating Monitor in Manual Twine Wrapping Mode:

- Press on “Twine” symbol side of switch (D) to select twine wrapping mode.

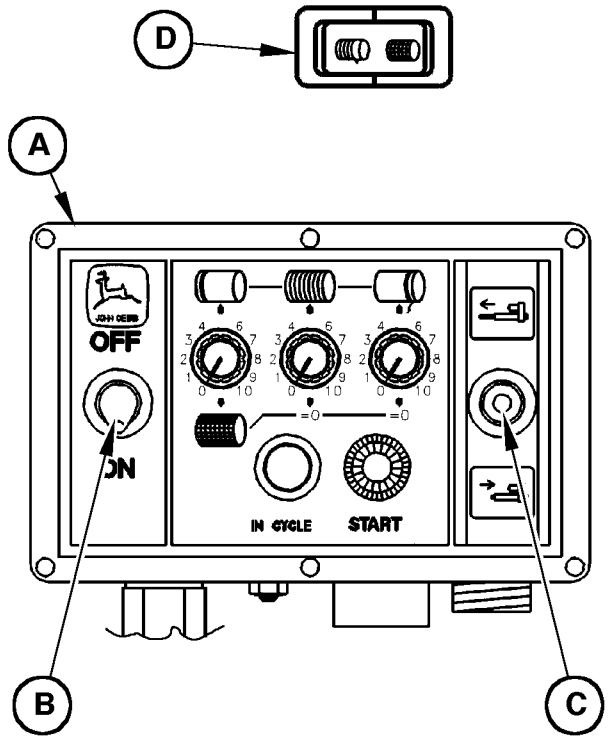
NOTE: Switch (D) is located on the monitor wiring harness near the monitor.

- Switch ON switch (B).

- The monitor is now ready to operate and baling process can be started (see “Forming a Bale” in this Section).

- Use the manual control switch (C) to distribute the twine across the bale (see “Wrapping a Bale Manually” in this Section).

IMPORTANT: Monitor is protected by circuit breaker. If control switch (C) is actuated with the twine arm actuator fully extended or fully retracted, circuit breaker will trip. In this case, wait a few seconds for the breaker to cool down and then reset by switching monitor OFF and ON again.



CC015244 -UN-11FEB99

CC015244

A—Monitor
B—“ON/OFF” switch
C—Manual control switch
D—Net/Twine wrapping mode switch

Continued overleaf

CC,565RB 004741-19-11FEB99

Operating Monitor in Programmed Net Wrapping Mode:

- Press on “Net” symbol side of switch (J) to select net wrapping mode.

NOTE: Switch (J) is located on the monitor wiring harness near the monitor.

- Turn potentiometer (C) clockwise to set the number of net wraps as follows:

Potentiometer position	Number of wrap turns
0-1-2	0
3	1.5
4	1.6
5	2
6	2.4
7	2.8
8	3
9	3.6
10	4

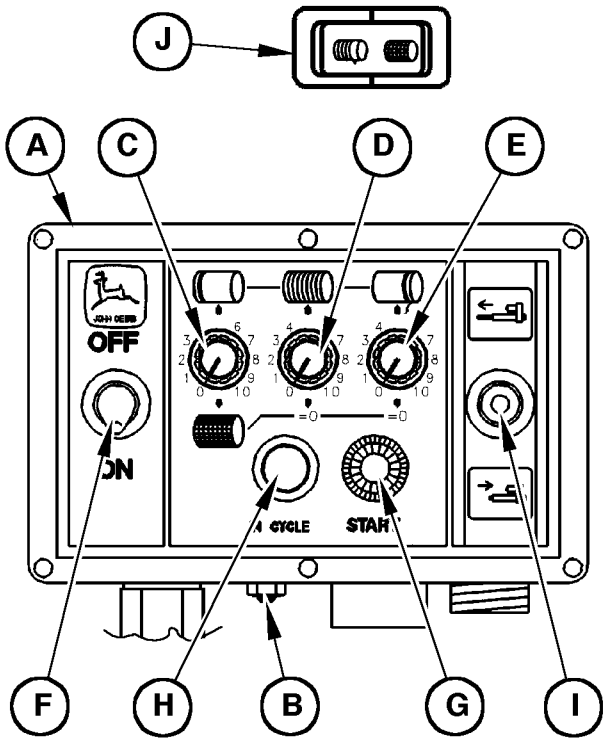
IMPORTANT: ALWAYS set the potentiometers (D) and (E) to “0” position when using monitor in net wrapping mode. Failure to do so will result in erratic wrapping cycle.

- Switch ON switch (F), monitor is now ready to operate and baling process can be started (see “Forming a Bale” in this Section).

NOTE: “START” button (G) can be pressed to activate the programmed mode if wrapping cycle requires to be started before the bale has reached the desired diameter. See “Wrapping a Bale Manually” in this Section.

“IN CYCLE” light (H) glows continously once “START” button (G) is pushed and will flash at the end of wrapping cycle. If necessary, till the light is glowing, a new wrapping cycle can be started by pushing “START” button (G).

NOTE: Manual Control switch (I) can be used to interrupt the programmed mode at any time. The manual mode is then ready to be used. See “Manual Net Wrapping Mode” in this Section..



CC015248 -UN-11FEB99

CC015248

A—Monitor
B—Adjustable screw
C—R-H side twine distribution potentiometer Net wrap density potentiometer
D—Middle twine distribution potentiometer
E—L-H side twine distribution potentiometer
F—“ON/OFF” switch
G—“START” button
H—“IN CYCLE” light
I—Manual control switch
J—Net/Twine wrapping mode switch

Continued overleaf

CC,565RB 004742-19-11FEB99

Operating Monitor in Manual Net Wrapping Mode:

- Press on “Net” symbol side of switch (D) to select net wrapping mode.

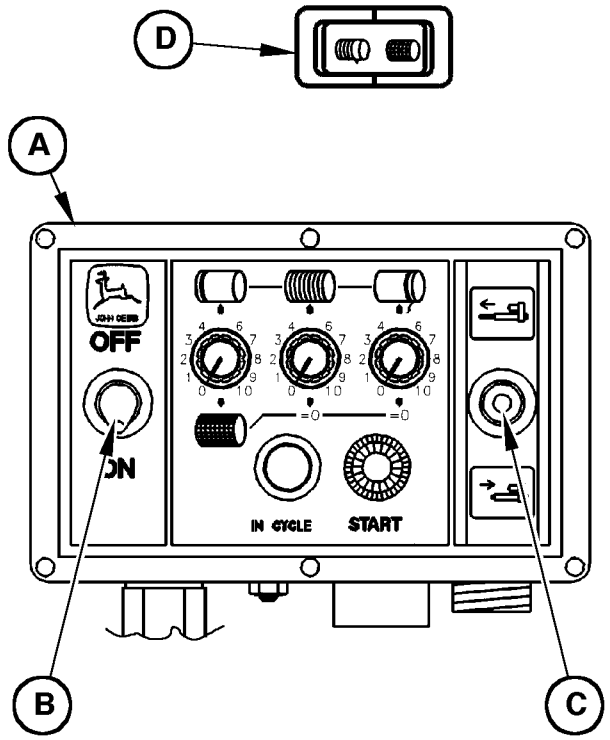
NOTE: Switch (D) is located on the monitor wiring harness near the monitor.

- Switch ON switch (B).

- The monitor is now ready to operate and baling process can be started (see “Forming a Bale” in this Section).

- Use the manual control switch (C) to adjust the desired number of net wraps (see “Wrapping a Bale Manually” in this Section).

IMPORTANT: Monitor is protected by circuit breaker. If control switch (C) is actuated with the net knife arm actuator fully extended or fully retracted, circuit breaker will trip. In this case, wait a few seconds for the breaker to cool down and then reset by switching monitor OFF and ON again.



CC015244 -UN-11FEB99

CC015244

A—Monitor
B—“ON/OFF” switch
C—Manual control switch
D—Net/Twine wrapping mode switch

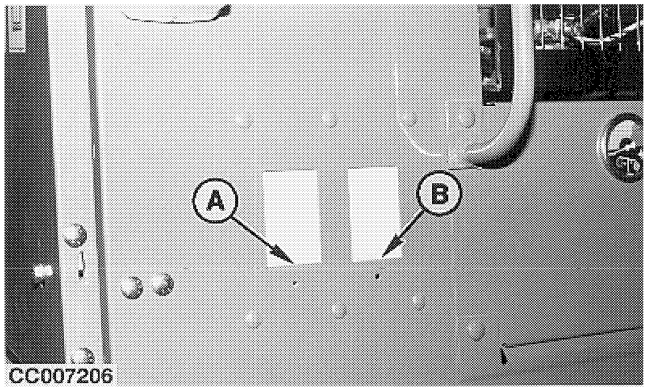
CC,565RB 004744-19-11FEB99

FORMING A BALE

CAUTION: DO NOT TAKE CHANCES! 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.



Prior to forming a bale, prepare the machine for baling as described in “Preparing the Baler” Section.

- Set the monitor to the desired values under the appropriate wrapping mode (twine or net). See “Electronic Wrapping Control Monitor—Programmed/Manual Mode” in this Section.

- Adjust desired full-size bale (see “Adjusting Full-Size Bale” in Section “Operating the Baler - General Purposes”).

- Operate tractor at PTO rated speed.

- Move selective control valve lever to close gate, then shift lever to neutral. Check that both bale shape indicators (A)-(B) are in downward position (red lines must be at bottom of bale shape windows). If not, gate is not correctly closed. Check for obstructions.

- Engage PTO, then start to feed the baler as described in “Feeding The Material” in Section “Operating the Baler - General Purposes”. Glance back and check movement of bale shape indicators (A)-(B).

Continued overleaf

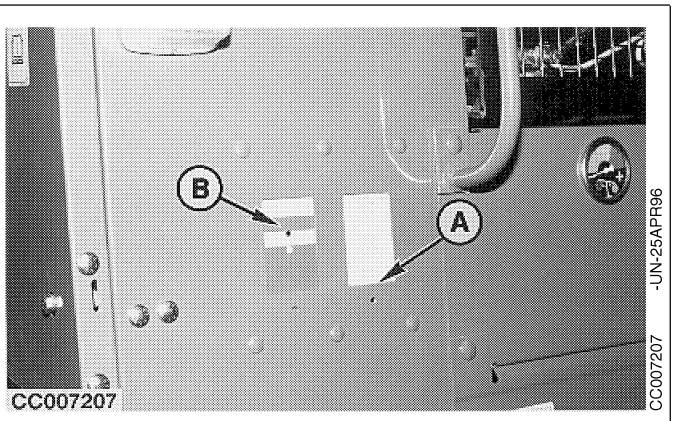
CC,565RB 004745-19-11FEB99

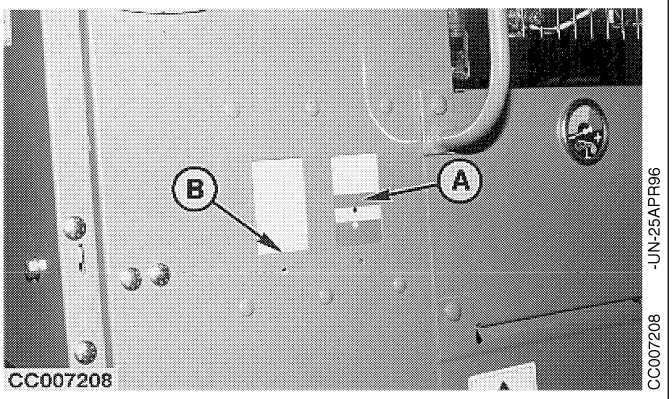
Weaving To The Right:

If left-hand bale shape indicator (A) remains in the down position while right-hand indicator (B) has risen, weave to the right over windrow to bring more material to left-hand side of pickup.

Weaving To The Left:

If right-hand bale shape indicator (B) remains in the down position while left-hand indicator (A) has risen, weave to the left over windrow to bring more material to right-hand side of pickup.





- Continue to feed material up to the desired full-size bale. At that time a short sound alarm (about 1 second) is emitted as the wrapping cycle is starting.

NOTE: If wrapping cycle must be started before that desired full-size bale is reached, wrap the bale as described in "Wrapping a Bale Manually" in this Section.

IMPORTANT: At the end of bale formation, the two red zones of bale shape indicators (A) and (B) will be at the top of bale shape windows. This corresponds to the maximum bale size accepted by the baler.

- Stop forward travel of tractor and back up 2 to 3 m (8 to 10 ft) (not necessary if baler is equipped with discharging ramp).

Continued overleaf

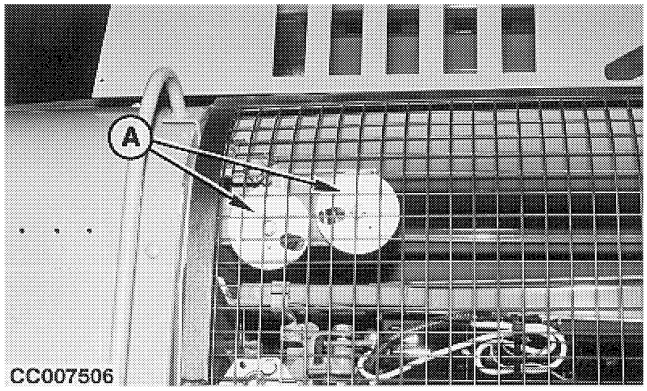
CC,565RB 004746-19-11FEB99

Under Twine Wrapping Mode:

- Glance back to check that twine pulleys (A) are rotating (twine caught).

During wrapping cycle, light (B) “IN CYCLE” is glowing. When cycle is completed, light (B) is flashing for a few seconds. The bale must be discharged while light (B) “IN CYCLE” is flashing (see “Discharging Bale” in this Section).

NOTE: Wrapping cycle can be re-started at any time by using “START” button (C).

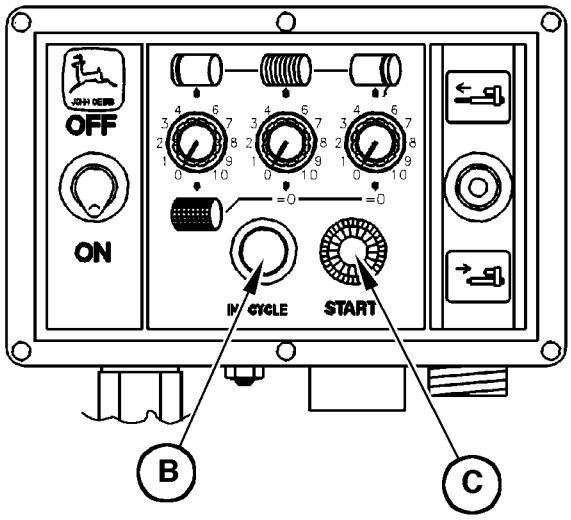


Under Net Wrapping Mode:

During wrapping cycle, light (B) “IN CYCLE” is glowing. When cycle is completed, light (B) is flashing for a few seconds. The bale must be discharged while light (B) “IN CYCLE” is flashing. See “Discharging Bale” in this Section.

IMPORTANT: If a second sound alarm (warble) is heard while light (B) “IN CYCLE” is flashing, the net has not been cut or the net roll is empty. In this case, re-start wrapping cycle using “START” button (C) or check net roll.

NOTE: Wrapping cycle can be re-started at any time.



CC,565RB 004751-19-11FEB99

WRAPPING A BALE MANUALLY

Whenever the wrapping cycle must be started before the bale has reached the desired size, stop forward travel of tractor and back up 2 to 3 m (8 to 10 ft) (not necessary if baler is equipped with discharging ramp).

Starting Twine Wrapping Cycle Using Programmed Mode:

- Push “START” button (A) to activate the programmed wrapping cycle.

Operator should then glance back and check that pulleys (C) are rotating to make sure that twines have been caught.

During wrapping cycle, light (B) “IN CYCLE” is glowing. When cycle is completed, light (B) is flashing for a few seconds. The bale must be discharged while light (B) “IN CYCLE” is flashing. See “Discharging Bale” in this Section.

NOTE: Wrapping cycle can be re-started at any time.

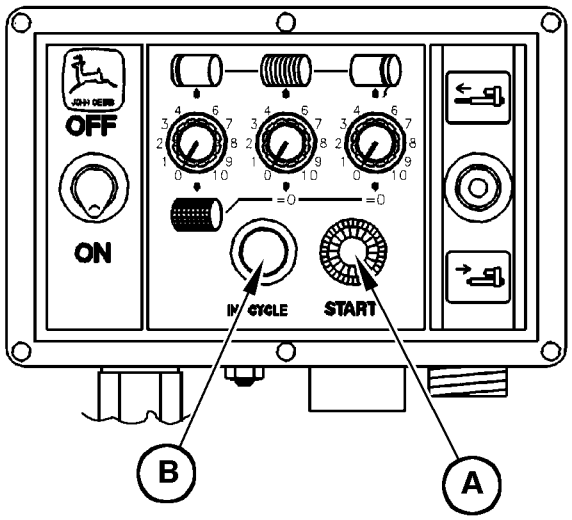
Starting Net Wrapping Cycle Using Programmed Mode:

- Push “START” button (A) to activate the programmed wrapping cycle.

During wrapping cycle, light (B) “IN CYCLE” is glowing. When cycle is completed, light (B) is flashing for a few seconds. The bale must be discharged while light (B) “IN CYCLE” is flashing. See “Discharging Bale” in this Section.

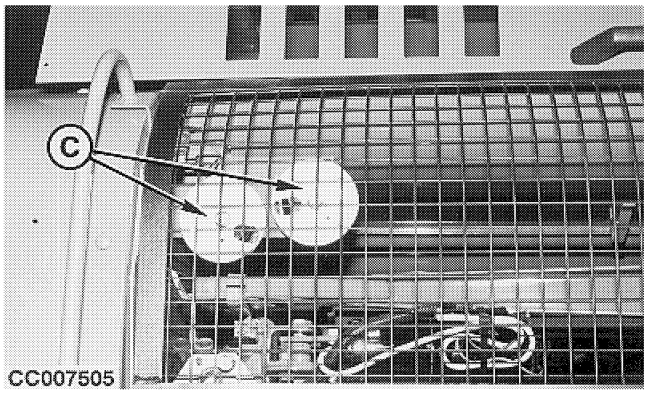
IMPORTANT: If a second sound alarm (warble) is heard while light (B) “IN CYCLE” is flashing, the net has not been cut or the net roll is empty. In this case, re-start wrapping cycle using “START” button (C) or check net roll.

NOTE: Wrapping cycle can be re-started at any time.



CC015245 -UN-11FEB99

CC015245



CC007505 -UN-25APR96

A—“START” button
B—“IN CYCLE” light
C—Twine pulleys

Continued overleaf

CC,565RB 004750-19-11FEB99

Starting Twine Wrapping Cycle Using Manual Mode:

- Move twine arm by means of manual control switch (A) to the extreme left-hand position. Check pulleys (B) to make sure twines have been caught. Hold the twine arm in this position for some seconds to ensure a sufficient number of twine coils at the left end of the bale. This will ensure a stronger wrapping.

- Bring back twine arm to “HOME” position by means of manual control switch (A). Stop the return movement several times to ensure a sufficient number of twine coils around the bale.

- Just before twine arm reaches “HOME” position, stop twine arm for a few seconds to ensure a sufficient number of twine coils around the right end of bale.

- Let twine arm finish its movement and trip twine cutter linkage.

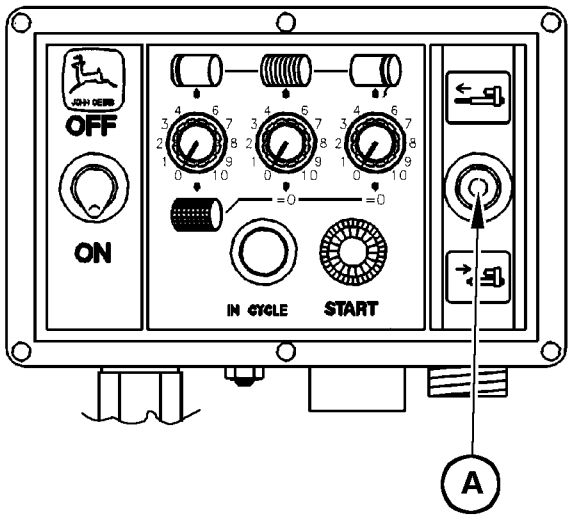
Starting Net Wrapping Cycle Using Manual Mode:

- Fully extend net actuator by means of manual control switch (A). Once the net actuator is extended, the feed rolls are engaged. Hold the actuator in this position for some seconds to ensure a sufficient number of net wraps.

NOTE: Holding the actuator extended from 3 to 10 seconds provides from 1.5 to 4 net wraps.

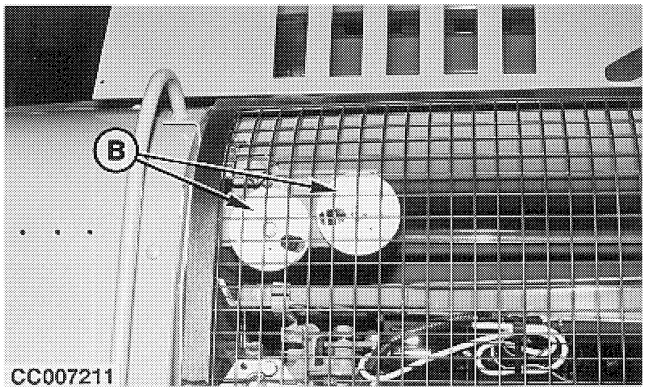
- Fully retract net actuator long enough to ensure that net is cut.

IMPORTANT: If a second sound alarm (warble) is heard, the net has not been cut or the net roll is empty. In this case, re-start wrapping cycle or check net roll.



CC015247 -UN-11FEB99

CC015247



CC007211 -UN-25APR96

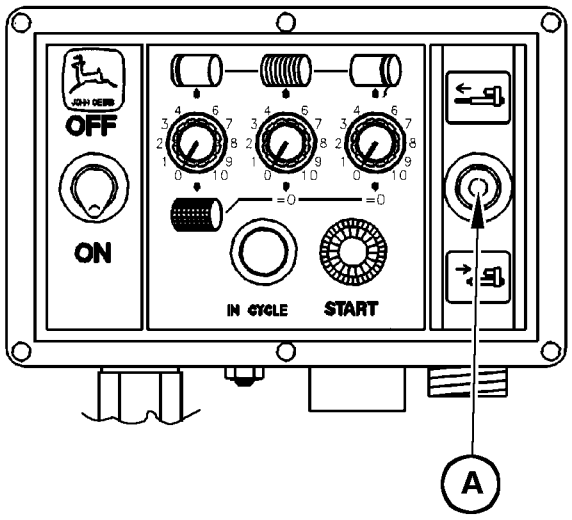
Continued overleaf

CC,565RB 004752-19-11FEB99

IMPORTANT: The actuator motor is protected by a thermic fuse. If manual control switch (A) is actuated when actuator is fully extended or fully retracted, the thermic fuse will trip. In this case wait until fuse resets.

If thermic fuse trips, disengage PTO, otherwise twine will continue to unwind. Engage PTO again when thermic fuse resets.

The bale is now ready to be discharged. See “Discharging Bale” in this Section.



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-UN-11FEB99

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CC,565RB 004753-19-11FEB99

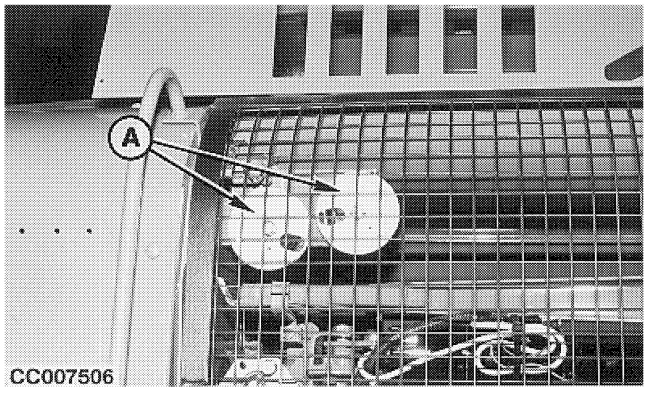
DISCHARGING BALE

NOTE: To ensure twine is cut, glance back to see that twine pulleys (A) have stopped rotating.

- Keep PTO engaged as it will allow the bale to be discharged.

- Raise gate.

- Drive forward to clear bale (not necessary if baler is equipped with bale discharging ramp) and close gate.



-UN-25APR96

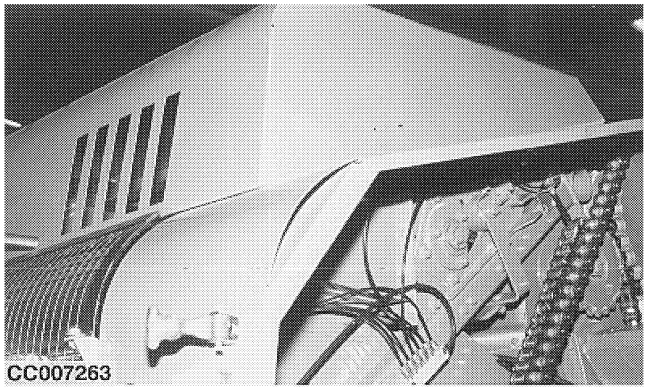
CC007506

CC,575RB 004032-19-11FEB99

NET WRAPPING BUNDLE (FOR BALER WITH ELECTRONIC WRAPPING CONTROL MONITOR ONLY)

To increase baler performance by reducing waste of time during twine wrapping operation, a net wrapping bundle is available as an attachment.

This kit provides well-shaped bales that will better resist to storage and weather.



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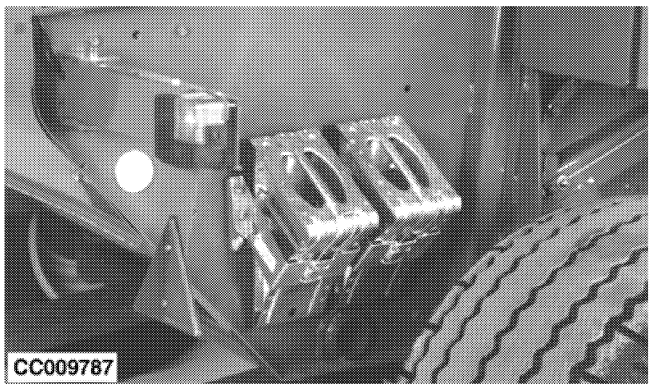
WHEEL CHOCKS

A wheel chock bundle is available as an attachment.

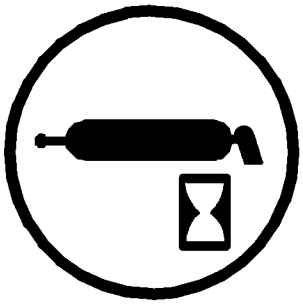


CC,575RB 003612-19-15NOV98

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.



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GREASE

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

The following grease is preferred:

- John Deere HD POLYUREA GREASE

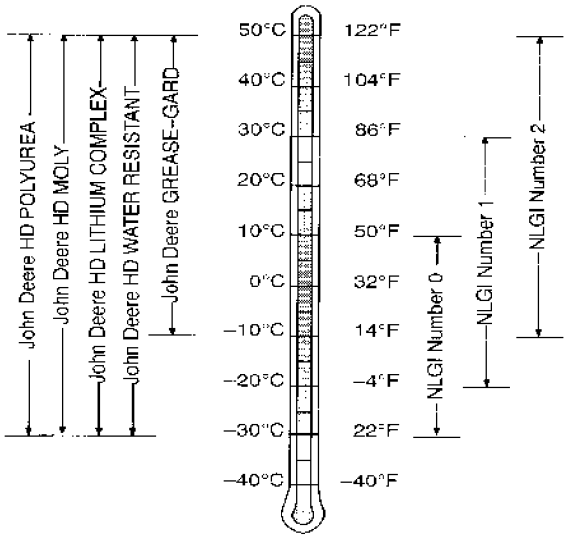
The following greases are also recommended:

- John Deere HD MOLY GREASE
- John Deere HD LITHIUM COMPLEX GREASE
- John Deere HD WATER RESISTANT GREASE
- John Deere GREASE-GARD

Other greases may be used if they meet the following:

- NLGI Performance Classification GC-LB

IMPORTANT: Some types of grease thickener are not compatible with others.



TS1665 -UN-08FEB99

DX,GREA1 -19-04FEB99

GEAR OIL

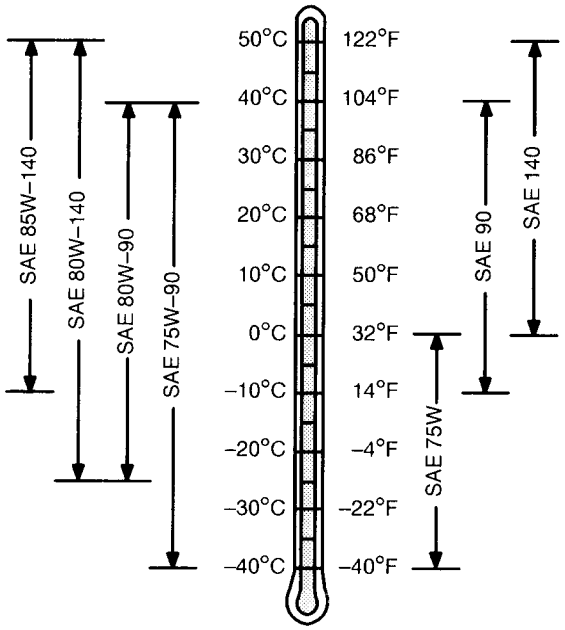
Use oil viscosity based on the expected air temperature range during the period between oil changes.

The following oils are preferred:

- John Deere EXTREME-GARD™
- John Deere GL-5 GEAR LUBRICANT

Other oils may be used if they meet the following:

- API Service Classification GL-5



DX,GEOIL -19-18MAR96

MULTILUBER CHAIN OIL

Use the following oil for the multiluber chain oiling system:

- John Deere BIO-MULTILUBER-OIL*

Other equivalent biodegradable oils may also be used.

IMPORTANT: Never use mineral oil for this application.

** 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.*

FX,CHAINOIL -19-02FEB95

OIL FILTERS

Filtration of oils is critical to proper operation and lubrication.

Always change filters regularly as specified in this manual.

Use filters meeting John Deere performance specifications.

DX,FILT -19-18MAR96

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 both conventional and synthetic oils.

Re-refined base stock products may be used if the finished lubricant meets the performance requirements.

DX,ALTER -19-18MAR96

LUBRICANT STORAGE

Your equipment can operate at top efficiency only when clean lubricants are used.

Use clean containers to handle all lubricants.

Whenever possible, 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 -19-18MAR96

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

DRAINING AND REFILLING GEAR CASE

IMPORTANT: Check level of lubricant every 800 to 1000 bales and refill as necessary.

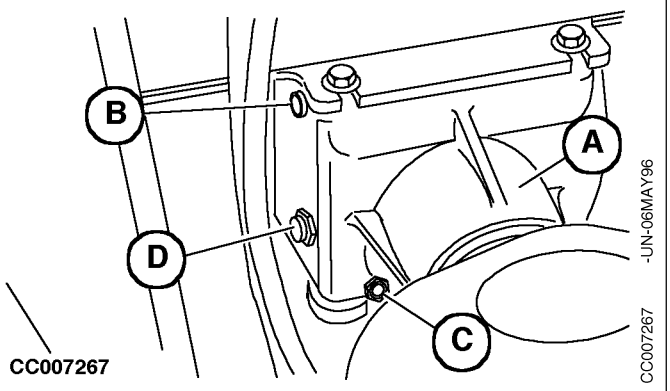
Do not overfill gear case as this will result in overheating and oil leakage.

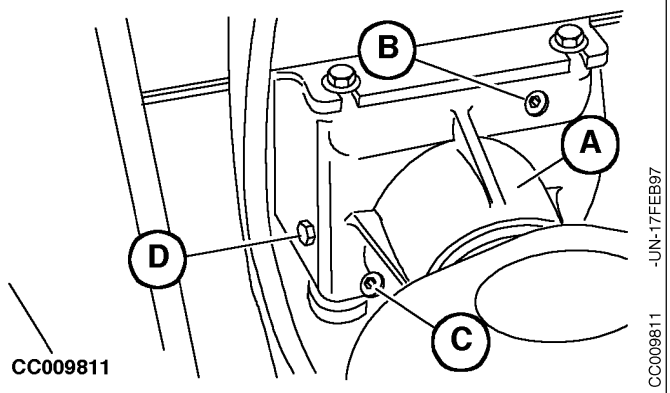
Drain and refill gear case (A) every 4000 or 5000 bales.

Drain the oil while it is hot (i.e after operation). Pull out refill plug (B) and drain plug (C), then drain oil into a suitable receptacle.

Clean drain plug (C) before reinstalling it, then add 1.7 l (0.45 US gal) of oil. Use a type specified under “Gear Oil” in this Section. This amount corresponds to the level plug (D) bore.

A—Gear case
B—Refill plug
C—Drain plug
D—Level plug



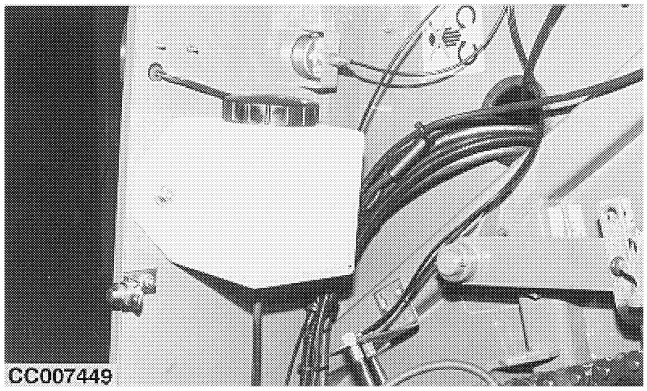


CC,565RB 004635-19-15NOV98

REFILLING MULTILUBER CHAIN OILING SYSTEM RESERVOIR

Depending on the pump flow adjustment, refill reservoir with 4 l (1.05 US gal) of oil. Use a type specified under “Multiluber Chain Oil” in this Section.

IMPORTANT: Never fill chain oiling system reservoir with MULTILUBER GREASE.



CC,575RB 003112-19-15NOV98

EVERY 10 HOURS - WIDE PICKUP DRUM DRIVE CHAIN

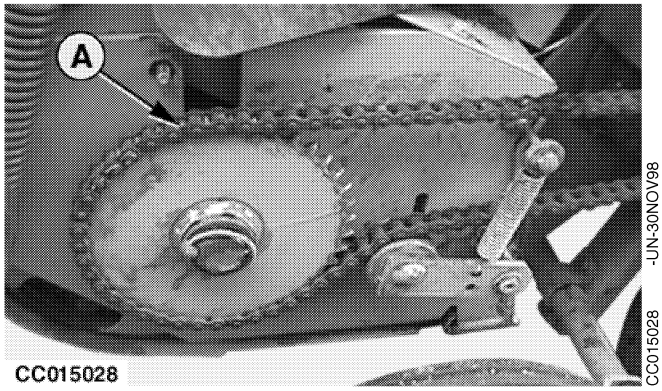
CAUTION: To help prevent injury, do not lubricate chain with machine running.

Remove shielding.

Liberally apply SAE 30 or heavier oil to chain (A) every 10 hours of operation.

Lubricate chain (A) immediately after operation when the chain is still warm. Let the machine stand idle for a short period to ensure effective oil penetration, resulting in longer chain life.

Reinstall shielding.



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EVERY 10 HOURS - STANDARD PICKUP DRIVE CHAIN

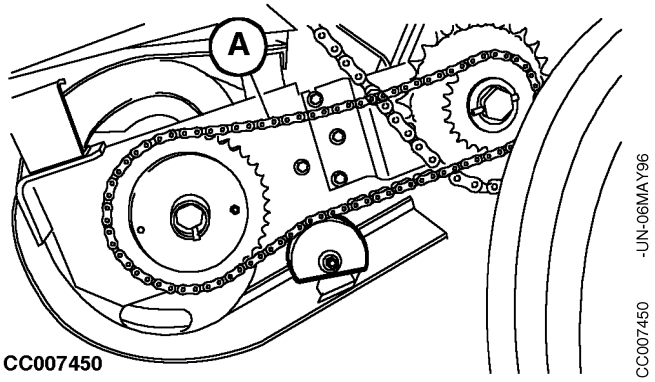
CAUTION: To help prevent injury, do not lubricate chain with machine running.

Remove shielding.

Liberally apply SAE 30 or heavier oil to chain (A) every 10 hours of operation.

Lubricate chain (A) immediately after operation when the chain is still warm. Let the machine stand idle for a short period to ensure effective oil penetration, resulting in longer chain life.

Reinstall shielding.



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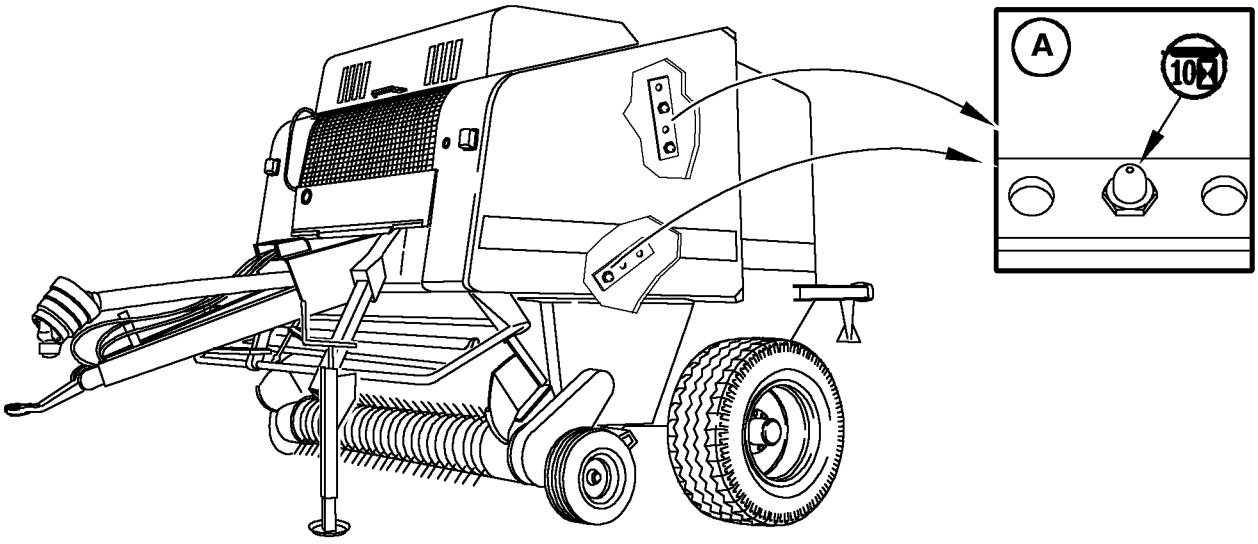
EVERY 10 HOURS



CC015019 -UN-30NOV98

CC015019

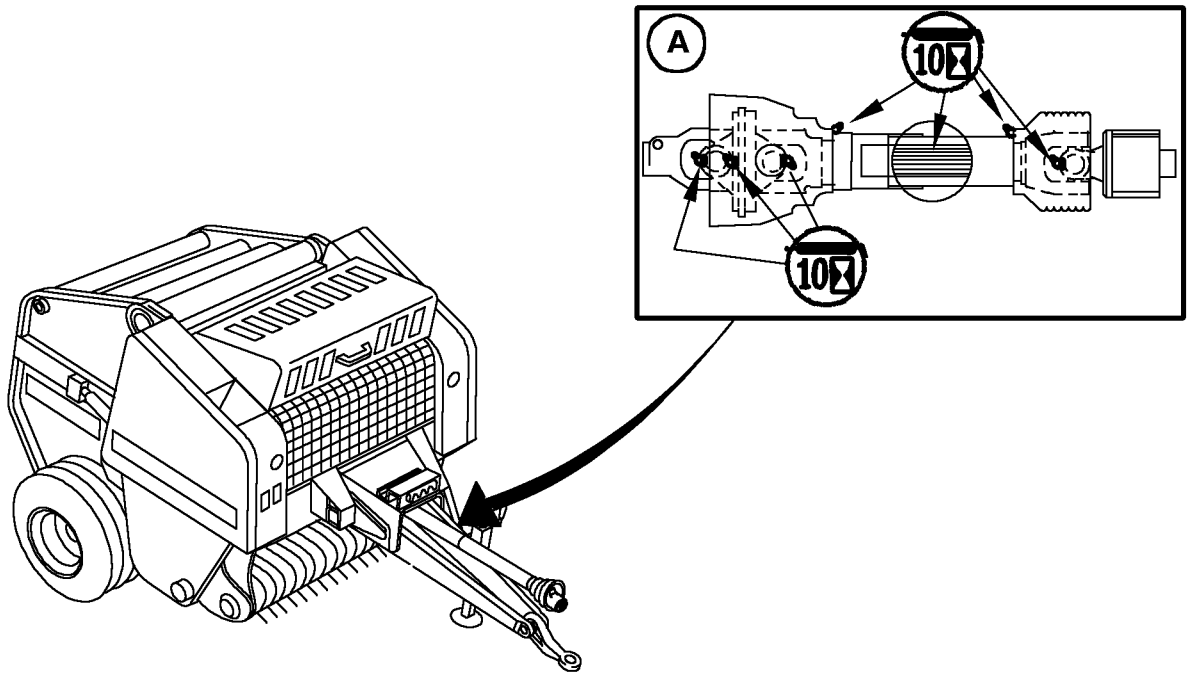
A—Baler rolls

Lubricate with John Deere GREASE-GARD.

IMPORTANT: Lubricate all roll grease nipples after working day while bearings are still warm.

CC,565RB 004637-19-15NOV98

EVERY 10 HOURS



CC015020 -UN-30NOV98

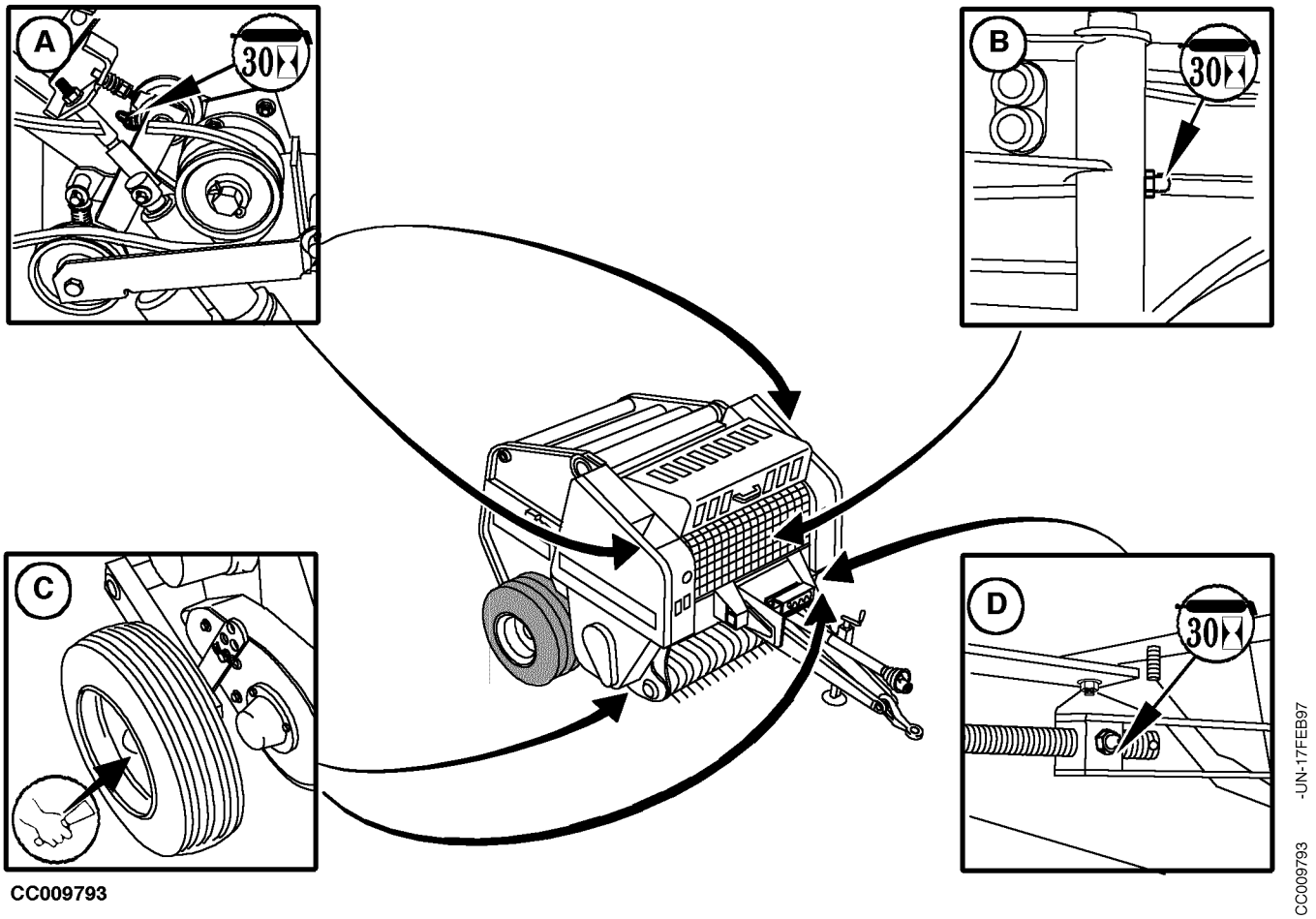
CC015020

A—Powerline

Lubricate with John Deere GREASE-GARD.

CC,565RB 004638-19-15NOV98

EVERY 30 HOURS

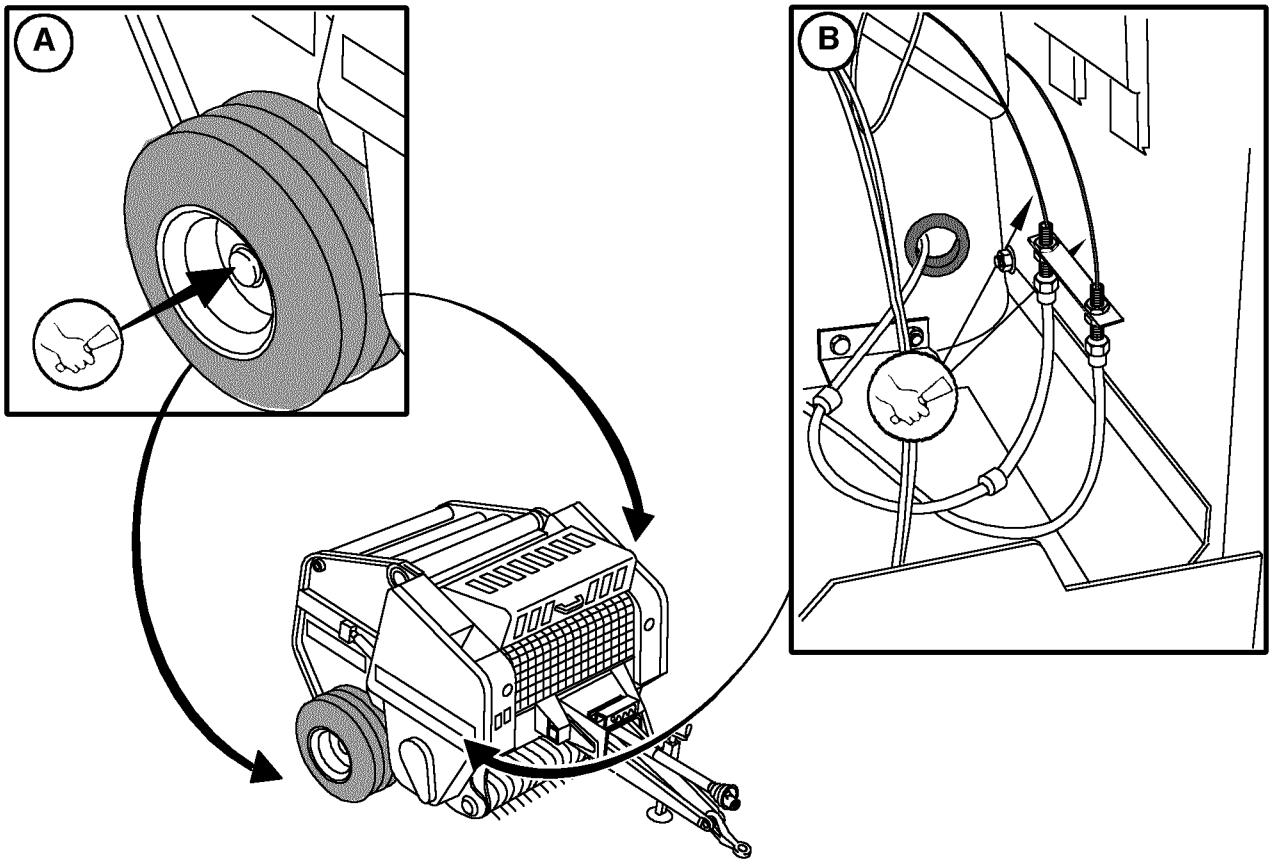


A—Net drive rolls **B—Twine arm hub** **C—Wide pickup gauge wheel** **D—Standard pickup lift crank**

Lubricate with John Deere GREASE-GARD.

CC,565RB 004639-19-15NOV98

ANNUALLY



CC007273 -UN-07MAY96

CC007273

A—Wheel Bearings

B—Bale shape indicator bowden cables

Remove wheels. Clean, repack and adjust bearings.

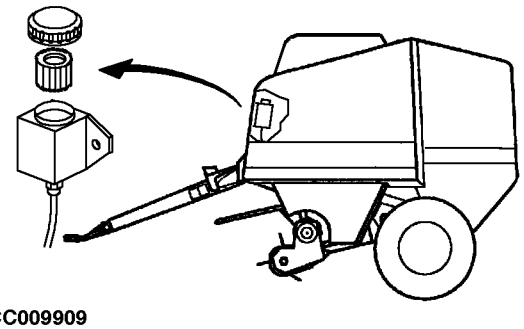
Remove cables. Clean, lubricate and adjust cables.

Lubricate with John Deere GREASE-GARD.

CC,575RB 004109-19-15NOV98

ANNUALLY

Change chain oil filter each year.



CC009909 -UN-17FEB97

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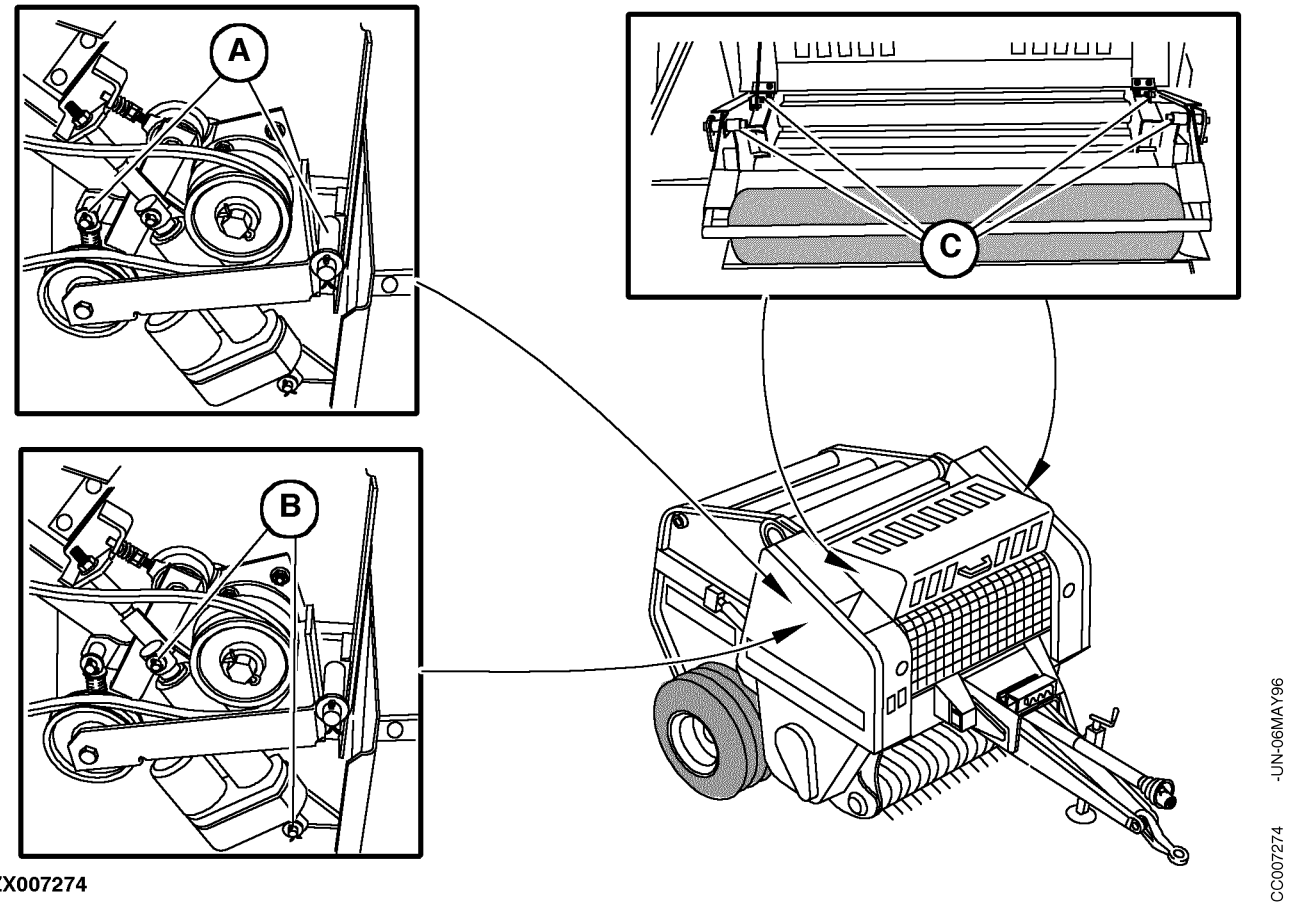


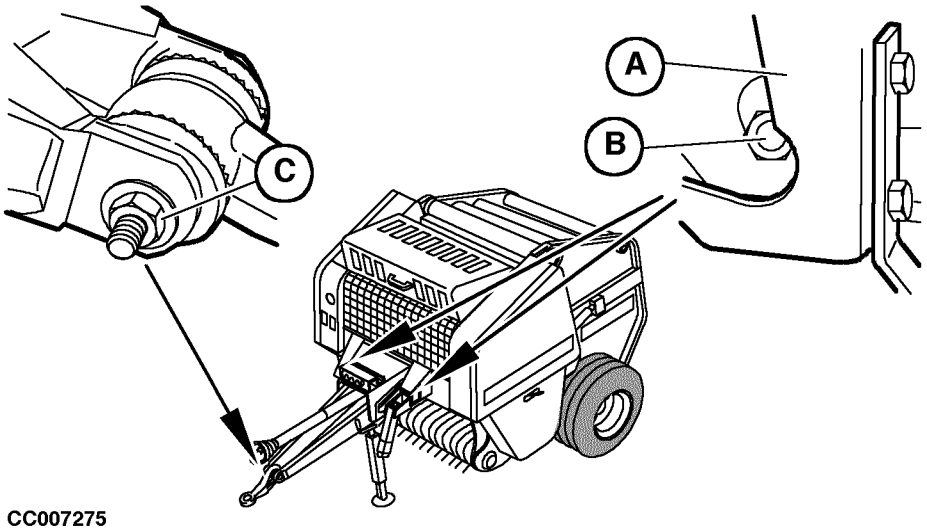
ZX007274

A—Idler pivots **B—Cylinder pins** **C—Net box brake pivots**

Lubricate with John Deere GREASE-GARD.

CC,575RB 004110-19-15NOV98

ANNUALLY



CC007275

- Retighten nuts (A) of tongue frame attaching screws to 700 N·m (516 lb-ft) and lock nuts (B) to 300 N·m (221 lb-ft).

- Retighten hitch plate attaching screw (C) to 620 N·m (450 lb-ft).

Shielding removed for illustration purposes

CC,575RB 003118-19-15NOV98

TWINE WRAPPING

Symptom	Problem	Solution
Twine too tight or twine breaks while wrapping.	Twine routing wrong.	Check for correct routing.
	Bad twine, knots in twine, new ball with tight core, wet twine.	Pull out bad twine or replace twine.
	Wrong twine tension plate pin or springs.	Replace with correct parts.
Twine too loose on bale.	Broken or missing twine tension spring.	Replace spring.
	Wrong tension spring pin.	Replace pin.
	Worn twine tension plates.	Replace worn parts.
Twine spacing not constant.	PTO rpm change during tying.	Keep PTO rpm constant.
No twine on bale or twine not caught by bale.	Twine from end of twine tube too short.	With tractor shut off, pull out twine until 300 mm (12 in.) is exposed from end of twine arm.
	Twine tension too high.	See “Twine Too Tight or Twine Breaks While Wrapping”.
	Baler out of twine.	Add twine. See “Loading Front Twine Box” in “Preparing the Baler” Section.
Twine too close to edge of bale.	On right-hand side: Missing or bent twine guide rod.	Replace or bend rod.
	On left-hand side: Support of twine arm actuator misadjusted.	Readjust.
	Barrel shaped bales.	Fill ends of bale by crowding windrow. See “Feeding the Material” in “Operating the Baler - General Purposes” Section.

Continued on next page

Symptom	Problem	Solution
Twine not cut.	PTO disengaged before twine is cut.	Look at twine to see that it has stopped moving before disengaging PTO.
	Twine cutter out of adjustment.	Adjust twine cutter. See “Service” Section.
	Dull knife or uneven edge not making contact with anvil.	Sharpen or replace knife. See “Service” Section.
	Knife not parallel to anvil.	Position knife pivot shaft so knife makes contact with anvil in area where twine is cut. See “Service” Section.
	Obstruction causing twine not to be guided above knife.	Remove obstruction.
	Bent twine guide rod.	Bend or replace.
	Binding in twine arm or cutter linkage.	Repair or replace so that linkage operates freely.
	Incorrect twine routing or bad ball of twine causing high twine tension.	Correct cause of high tension.
Twine arm moves too slow from right to left.	Battery charge level to low.	Check battery charge (at least 20 A).
Twine arm will not move.	Wrong connection on electric cylinder.	Repair.
	Defective bale wrapping monitor.	Repair or replace as necessary.
	Malfunction of bale wrapping monitor.	Check battery charge (at least 20 A).

CC,565RB 004735-19-11FEB99

FEEDING DIFFICULTIES

Symptom	Problem	Solution
Baler will not feed; hay plugged at feed opening.	Large windrows and/or ground speed too high.	Reduce windrow size and/or tractor ground speed.
	Missing pickup teeth.	Replace teeth.
	Short crop deflector set too low.	Raise deflector. See “Operating the Baler” Section.
	Gate opening while baling.	Repair leaking gate hydraulic cylinders.
		Check bale density adjustment. See “Operating the Baler - General Purposes” Section.
	Gate not closed.	Eject bale. Close gate.
	Bale density too high.	Decrease density. See “Operating the Baler - General Purposes” Section.
	Pickup shear bolt sheared.	Replace shear bolt. See “Service” Section.
	Straw bar reducing feed opening.	Remove straw bar. See “Operating The Baler - General Purposes” Section.
Baler will not bale short, dry, slick crops.	Short and brittle straw.	Install the straw bar. See “Operating The Baler - General Purposes” Section.
	Excessive buildup on top of short crop deflector.	Remove short crop deflector assembly.
	PTO speed too high.	Reduce PTO speed and shift to higher gear.
	Pickup too low.	Raise pickup. See “Operating the Baler - General Purposes” Section.
	Windrow too light.	Rake heavier windrows. See “Operating the Baler - General Purposes” Section.

Continued on next page

Symptom	Problem	Solution
Baler will not feed cornstalks.	Pickup too high.	Lower pickup. See “Operating the Baler - General Purposes” Section.
	Windrows too large.	Rake smaller windrows. See “Operating the Baler - General Purposes” Section.
	Missing or broken pickup teeth.	Replace teeth.

CC,565RB 004641-19-15NOV98

PICKUP DIFFICULTIES

Symptom	Problem	Solution
Pickup teeth do not revolve.	Pickup drive chain broken.	Replace chain.
	Pickup shear bolt sheared.	Replace shear bolt. See “Service” Section.
	Broken cam.	Replace cam.
Pickup will not float or drop freely.	Excess or insufficient float assist.	Adjust float springs. See “Operating the Baler - General Purposes” Section.
	Binding at pivots.	Remove chaff and dirt. Make clearance between sliding parts.
Not picking up hay cleanly.	Pickup teeth set too high.	Lower pickup. See “Operating the Baler - General Purposes” Section.
	Pickup stays up.	Loosen float springs. See “Operating the Baler - General Purposes” Section.
	Ground speed too high.	Reduce ground speed.
	Windrows too light.	Rake heavier windrows. See “Operating the Baler - General Purposes” Section.
	Pickup teeth bent or broken.	Straighten or replace teeth.
Pickup teeth digging in ground.	Pickup set too low.	Raise pickup. See “Operating the Baler - General Purposes” Section.
	Poor pickup float.	Tighten float springs and/or check pivots. See “Operating the Baler - General Purposes” Section.

Continued on next page

Symptom	Problem	Solution
Pickup tooth breakage.	Pickup set too low.	Raise pickup. See “Operating the Baler - General Purposes” Section.
	Foreign material inside and/or broken teeth.	Remove material and/or replace teeth.
	Baling cornstalks.	Raise pickup. Higher tooth breakage can be expected. See “Operating the Baler - General Purposes” Section.
Plugging at flares.	Over-crowding ends.	Reduce crowding.
	Pickup set too low.	Raise pickup. See “Operating the Baler - General Purposes” Section.
	Tractor tires crushing crop into stubble.	Increase wheel tread. See “Preparing the Tractor” Section.
Inside of strippers worn.	Strippers bent up hitting tooth coils.	Check for binding at flares.
		Increase float. See “Operating the Baler - General Purposes” Section.
		Raise pickup. See “Operating the Baler - General Purposes” Section.

CC,575RB 004114-19-15NOV98

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.
	Bale ends not filled tightly.	Crowd more hay in ends of baler. See “Operating the Baler - General Purposes” section.
	Density control adjusted for light bales.	Adjust for heavier bales. See “Operating the Baler - General Purposes” Section.

CC,575RB 004115-19-15NOV98

GENERAL BALER DIFFICULTIES

Symptom	Problem	Solution
Gate opens while baling.	Bale density knob too loose or tractor hydraulic system failure.	Check bale density adjustment and position of tractor's selective control valve lever which must be in neutral position. Check tractor hydraulic system.
Gate not closed.	Obstruction between gate and frame.	Remove obstruction.
Bale sticks in chamber.	New baler.	Reduce density until baler has made several bales to polish side sheets.
	Bale density too high.	Lower bale density at control valve. See "Operating the Baler - General Purposes" 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.
	Raised gate creates additional turning force.	Adjust with gate closed.
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 density valve defective.	Replace or repair valve. See your John Deere dealer.
Excessive shear bolt breakage.	Tractor PTO engaged too fast.	Engage PTO slowly.
	Wrong size or grade of shear bolt.	Replace with recommended shear bolt.

CC,575RB 004116-19-15NOV98

SILAGE DIFFICULTIES

Symptom	Problem	Solution
Plugging the baler by feeding a too large bunch of silage.	Irregular windrows.	Adapt drive speed to windrow size.
	Straw bar reducing feed opening.	Remove the straw bar. See “Operating The Baler - General Purposes” Section.

CC,575RB 004642-19-15NOV98

NET WRAPPING EQUIPMENT DIFFICULTIES

Symptom	Problem	Solution
Bale not wrapped (no "end of cycle" beep).	Net feed rolls not in contact when actuator is extended.	See your John Deere dealer.
	Galvanized roll not moving freely.	See your John Deere dealer.
	Net knife in contact with only one side of the net front guide rubber band when actuator is retracted.	Adjust knife so that it is parallel.
	Net drive belt too short.	Replace drive belt. See "Removing Net Feed Roll Drive Belt" in "Service" Section.
	No good contact between feed rolls.	See your John Deere dealer.
	Front net guide rubber band not smooth enough.	Replace rubber band. See "Service" Section.
	Net roll empty.	Install a new net roll.
	Net drive rolls not engaged.	Check or replace drive belt. See "Service" Section. Check belt tension when cycle starts. See "Service" Section. Check that net roll diameter is not greater than 320 mm (12.6 in.).
	Net rolled up around rubber roll.	Shut off tractor PTO. Open the net box and slightly extend the net actuator to release braking effect. Unroll net by pulling on it. Never attempt to cut net with a knife against rubber roll.
	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 drive roll pressure too high.	Adjust net roll pressure. See "Service" Section.

Continued on next page

Symptom	Problem	Solution
	Net not engaged properly (new roll).	Restart net installation. See “Preparing the Baler” Section.
	Rubber roll damaged or sticky.	Change rubber roll, clean it or apply talc to roll.
	Net sticky from packaging.	Cut off sticky area.
Bale not wrapped (with “end of cycle” beep).	Net around sticky rolls of baler.	Clean the relevant rolls.
Bale wrapped (no “end of cycle” beep).	Net microswitch broken, bent or not adjusted.	Check and/or replace microswitch. See “Service” Section.
Bale not uniformly wrapped or not wrapped.	Net feed roll brake not correctly adjusted.	Adjust net feed roll brake. See “Checking Net Feed Roll Brake” in “Service” Section.
	Net drive belt too long.	Replace drive belt. See “Removing Net Feed Roll Drive Belt” in “Service” Section.
	Net idler roll (NR20) not correctly installed.	See your John Deere dealer.
Net not cut.	Specified net quality not used.	Use recommended net quality.
	Knife not coming back freely to cutting position.	Check and/or replace parts.
	Electrical components defective.	Check and/or replace parts.
	Dull knife.	Sharpen knife. See “Service” Section.
	Net feed roll brake not correctly adjusted.	Adjust net feed roll brake. See “Checking Net Feed Roll Brake” in “Service” Section.
	Net knife not parallel.	Reinstall correctly.
	Knife arm stop incorrectly adjusted. Knife too far from front net guide rubber band.	Readjust correctly. See “Adjusting Net Knife Arm Stop” in “Service” Section.

Continued on next page

Symptom	Problem	Solution
Warble stays on after net is cut.	Knife stop (right-hand side) not properly adjusted.	Check proper adjustment of stop. See “Service” Section.
	Spring missing on switch actuating plate.	Replace spring.
Net not tight around bale.		Check that roll of net (when small) is not behind braking bar. See “Preparing the Baler” Section.
	Net drive belt too long.	Replace drive belt. See “Removing Net Feed Roll Drive Belt” in “Service” Section.

CC,575RB 004736-19-11FEB99

CHAIN OILING SYSTEM

Symptom	Problem	Solution
Oil consumption low.	Pump action has become tight due to buildup of dirt in pump area resulting in low pressure.	Clean and restore free motion.
	Pump is not being depressed to full stroke.	Adjust as described in “Operating the Baler - General Purposes” Section.
	Pump valves are not closing correctly.	Disassemble and clean or replace pump.
	Oil too heavy.	Use a type of oil specified in “Lubrication and Maintenance” Section.
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 pump stroke.
		Reduce oil flow at brushes by using metering valves with smaller restriction diameter.
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.

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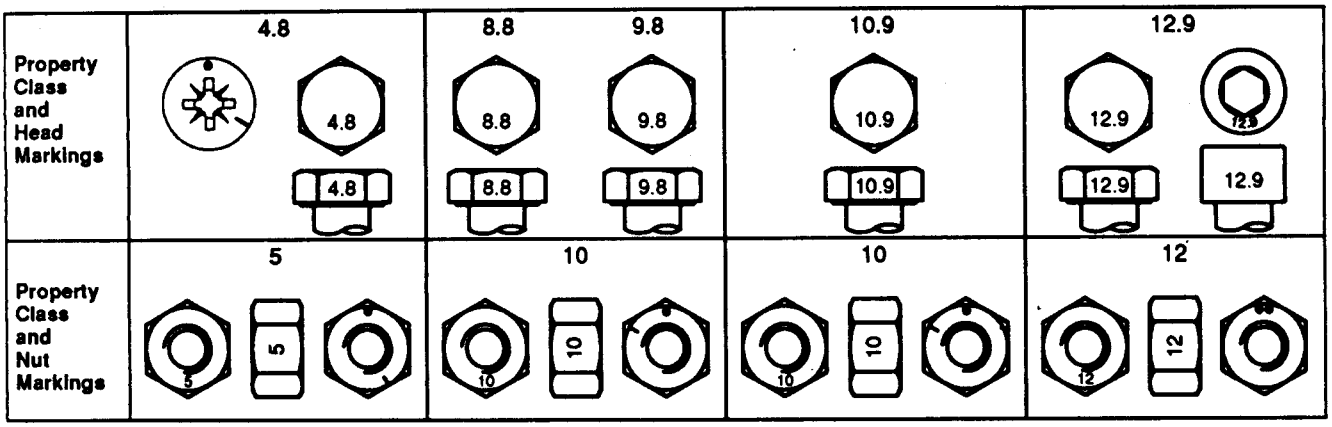
METRIC BOLT AND CAP SCREW TORQUE VALUES



Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]	
	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	255	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

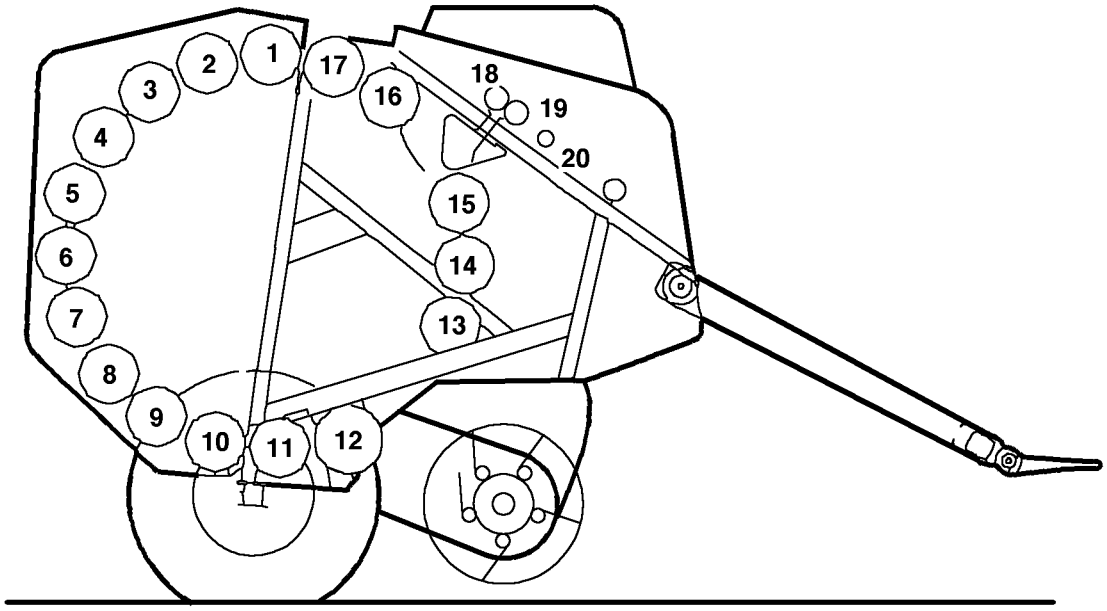
Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

[a] "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

DX,TORQ2 -19-20JUL94

BALER ROLL NUMBERING



CC015021 -UN-30NOV98

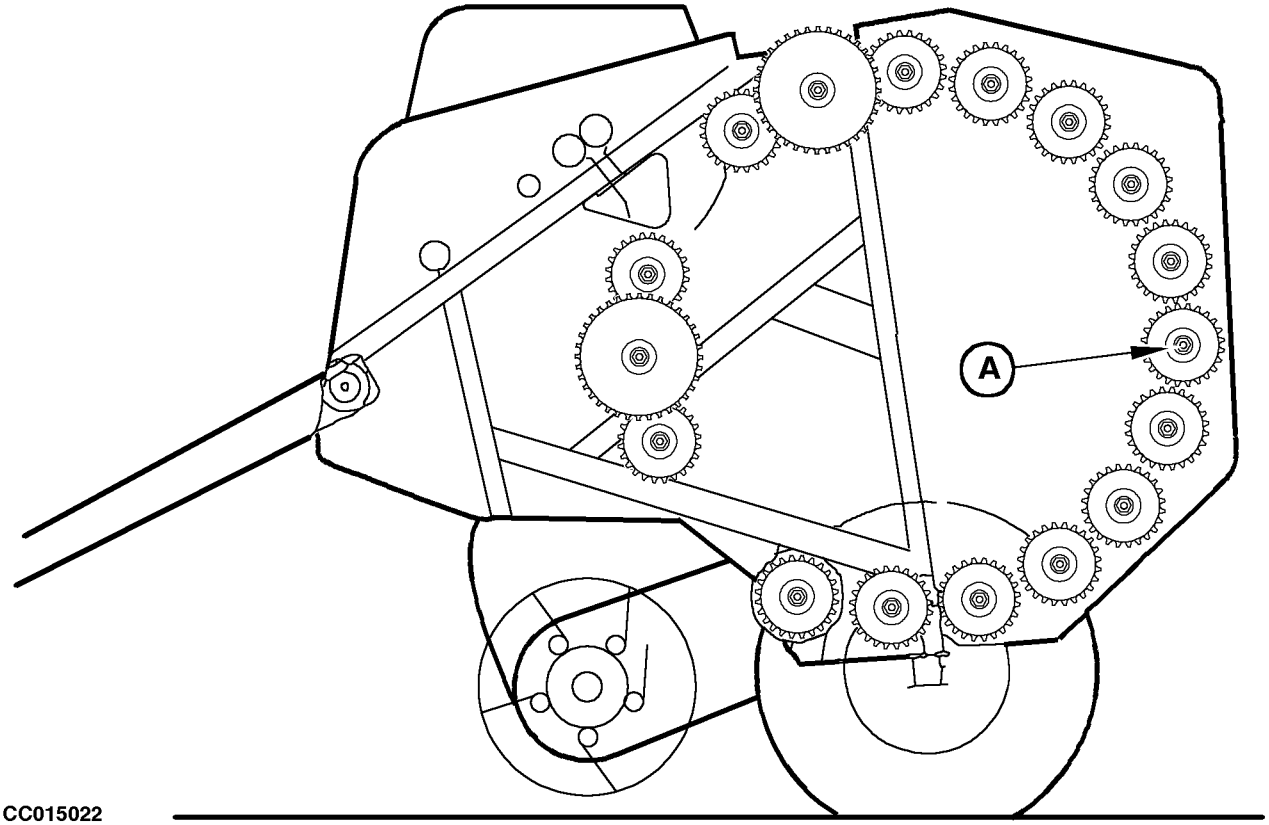
CC015021

1—Upper gate roll
2 to 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
16—Intermediate front frame roll
17—Upper front frame drive roll
18—Galvanized net feed roll
19—Rubber coated net feed roll
20—Net idler roll

NOTE: Numbers shown above must not be used when ordering roll replacement parts. Always refer to relevant parts catalog.

CC,565RB 004642-19-15NOV98

TIGHTENING ROLL SPROCKET FIXING NUTS



Roll sprocket fixing nuts (A) require specific torques.

- Tighten all M24 nuts (A) to 550 N·m (398 lb-ft).
- Tighten all M30 nuts (A) to 850 N·m (616 lb-ft).

CC,565RB 004643-19-15NOV98

ADJUSTING BALE SHAPE INDICATOR STRAPS

Close the gate so that gate dogs (A) are fully retracted, then check that red zones of the two bale shape indicator straps (B) are flush with the bottom of bale shape windows.

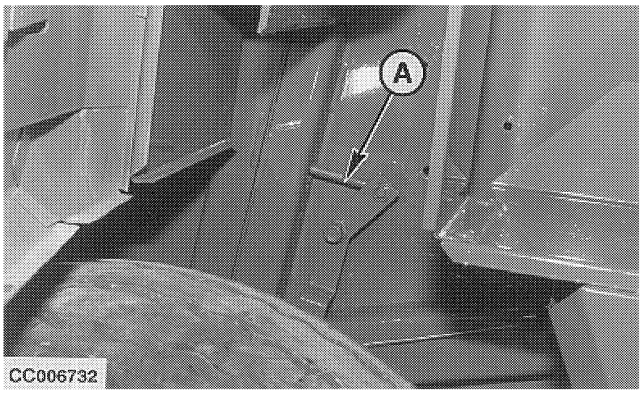
If necessary, adjust length of relevant bowden cable (C) as follows:

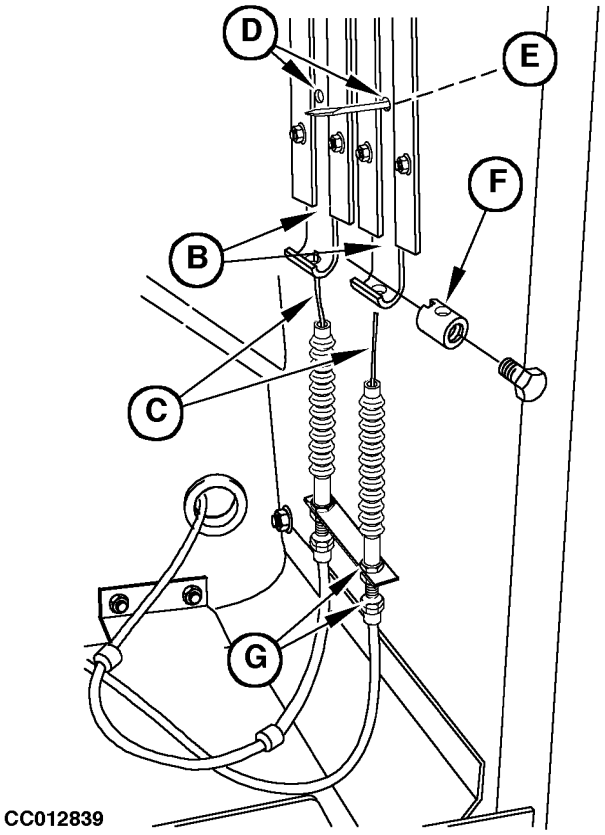
- Align relevant strap hole (D) with the front sheet hole (E) by inserting a small screwdriver as shown.

- Adjust cable clamp (F) until there is no play between clamp and strap (B) and tighten clamp.

- Slightly tighten cable (C) using adjusting screw (G) so that screwdriver can be removed without adjustment modification.

A—Gate dog
B—Bale shape indicator strap
C—Bowden cable
D—Strap hole
E—Front sheet hole
F—Cable clamp
G—Adjusting screw





CC,575RB 004121-19-15NOV98

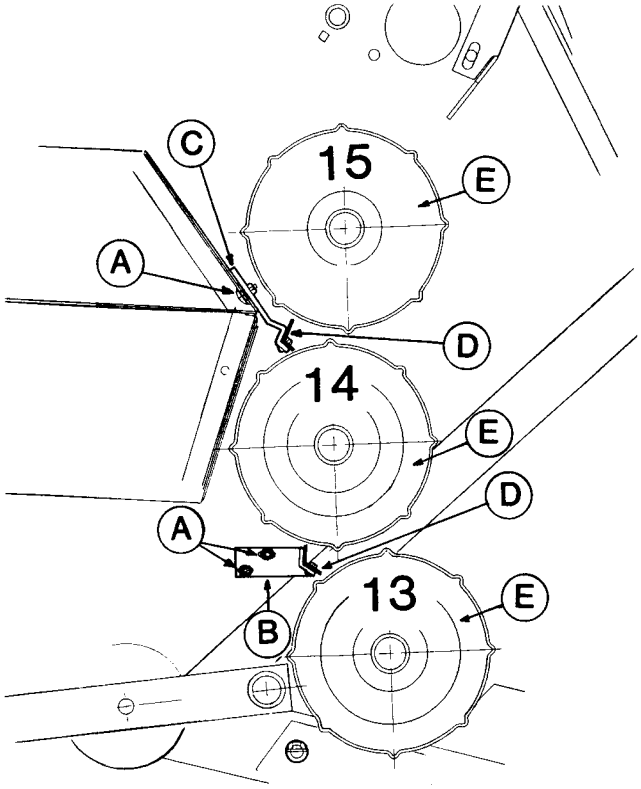
ADJUSTING ROLL SCRAPERS

Loosen fixing screws (A) of scraper supports (B) and (C).

Slide supports (B)-(C) so that rubber bands (D) are positioned as close as possible to the rolls (E) without contact.

Tighten fixing screws (A).

NOTE: Rubber bands (D) can be easily replaced.



CC006734

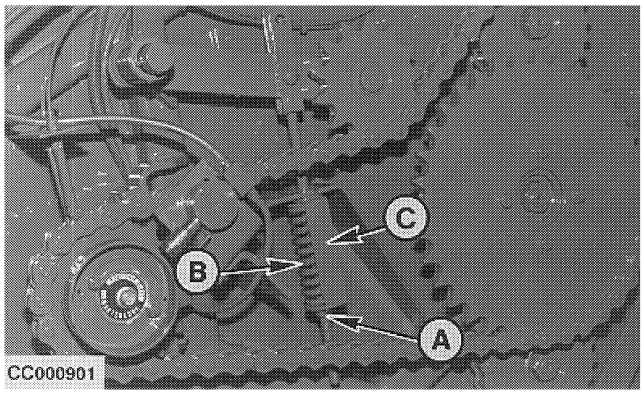
CC006734 -UN-22MAR95

CC,575RB 002562-19-15NOV98

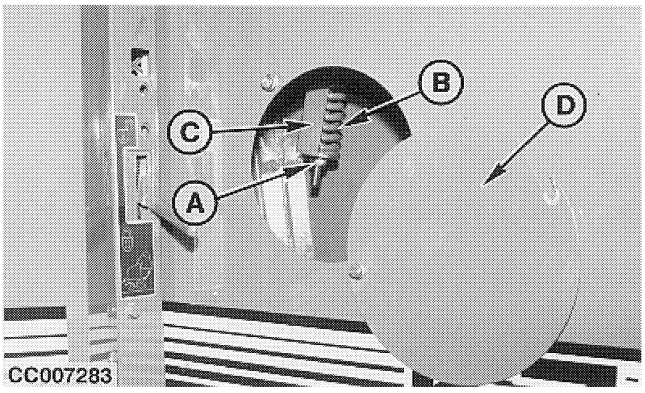
ADJUSTING ROLL DRIVE CHAINS

Adjust tension on all roller chains by means of the eyebolt nut (A) so that length of spring (B) and strap (C) are the same.

A—Nut
B—Spring
C—Strap
D—Swivel cover



CC000901 -UN-22MAR95



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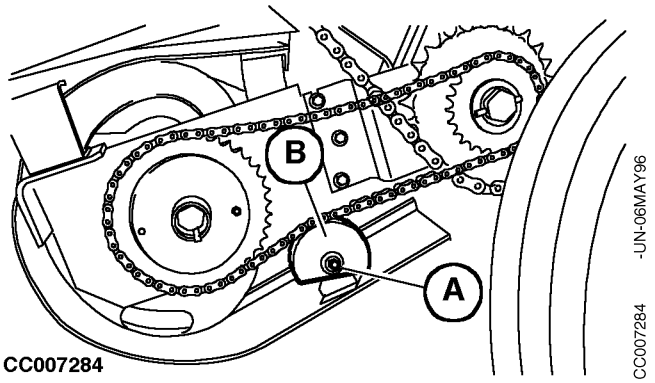
CC,565RB 004644-19-15NOV98

ADJUSTING PICKUP DRIVE CHAIN (BALER WITH STANDARD PICKUP)

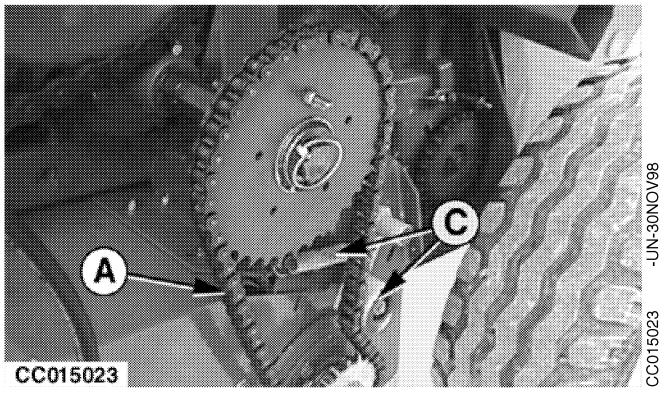
Loosen the idler support mounting screw (A). Rotate idler (B) against chain so that chain deflection is about 5 mm (0.2 in.), and tighten the mounting screw (A).



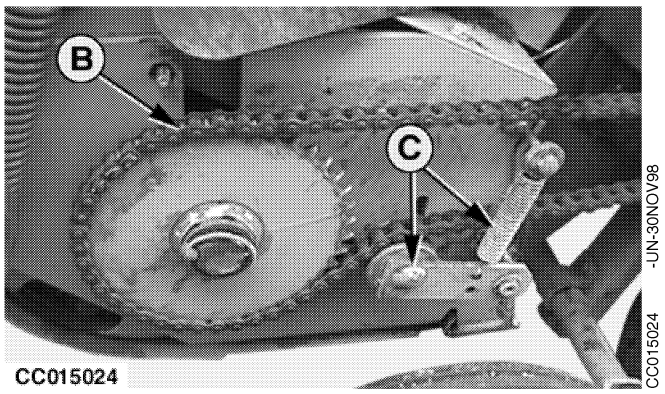
CC,575RB 003132-19-15NOV98

ADJUSTING PICKUP DRIVE CHAINS (BALER WITH WIDE PICKUP)

Wide pickup main drive chain (A) and pickup drum drive chain (B) are kept tensioned by spring loaded idlers (C). Altough the idlers are not adjustable, make sure that spring coils are always slightly separated to allow adequate tension on chains.



Pickup main drive chain



Pickup drum drive chain

CC,565RB 004645-19-15NOV98

ADJUSTING TWINE CUTTER ANVIL

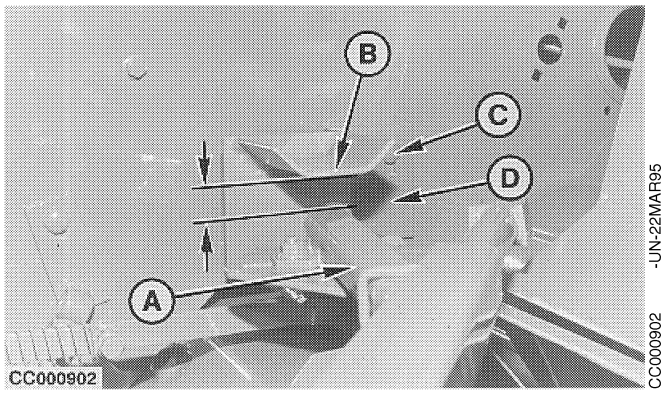
Move twine arm (A) by means of control monitor until it is centered below knife anvil (B).

Loosen nuts (C).

Adjust twine cutter assembly (D) so clearance between knife anvil (B) and twine arm (A) is 1 to 4 mm (0.04 to 0.16 in.).

Retighten nuts (C).

Move twine arm to “home” position.



A—Twine arm
B—Knife anvil
C—Nuts
D—Cutter assembly

CC,575RB 001400-19-15NOV98

ADJUSTING TWINE ARM TRAVEL

There must be a distance (A) of 80 to 150 mm (3.15 to 5.90 in.) between left-hand panel of bale chamber (B) and tip of twine arm (C). The twine arm must also exert a positive action on twine cutter linkage (D) on its way back to “home” position, otherwise twine will not be cut.

Adjust as follows:

Move twine arm to the extreme left-hand position by means of the control monitor. The actuator is now fully extended.

Loosen cap screw (E).

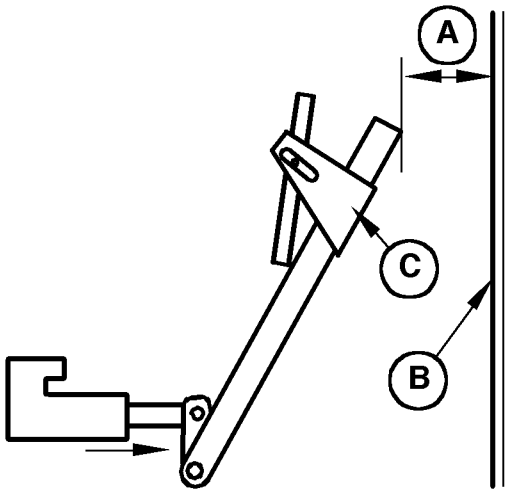
Move actuator support (F) in slot (G) to obtain distance (A) from 80 to 150 mm (3.15 to 5.90 in.). and to obtain positive action of twine arm on twine cutter linkage.

Retighten cap screw (E).

Move twine arm to “home” position and check that positive action of twine arm on twine cutter linkage is obtained.

NOTE: This adjustment influences directly the twine arm re-extension point when using the baler with the Electronic Wrapping Control monitor. See “Operating Electronic Wrapping Control” Section.

A—80 to 150 mm (3.15 to 5.90 in.)
B—Left-hand panel of bale chamber
C—Twine arm tip
D—Twine cutter linkage
E—Cap screw
F—Actuator support
G—Adjusting slot



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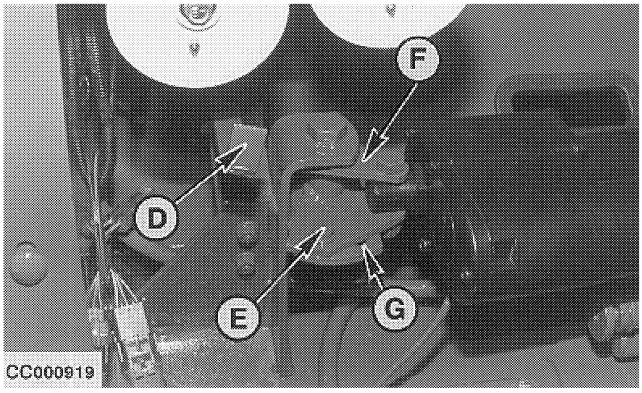


CC000919 -UN-22MAR95

CC,565RB 004647-19-15NOV98

ADJUSTING FULL-SIZE BALE SWITCH

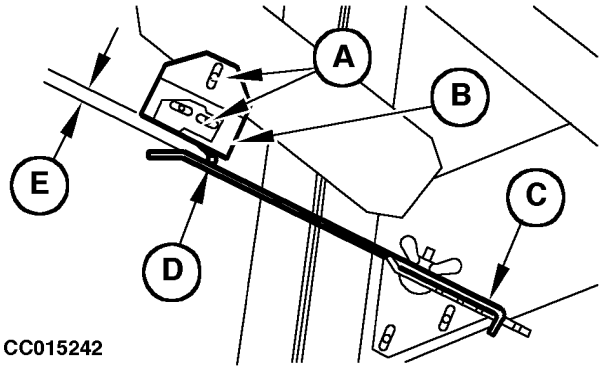
Close the gate.

Loosen screws (A).

Adjust switch bracket (B) so that ramp (C) contacts switch roller (D) and that specified distance (E) between bottom of switch and ramp (C) is achieved.

Retighten screws (A).

A—Cap screws
B—Switch bracket
C—Ramp
D—Switch roller
E—7±1 mm (0.27±0.04 in.)



CC,565RB 004737-19-11FEB99

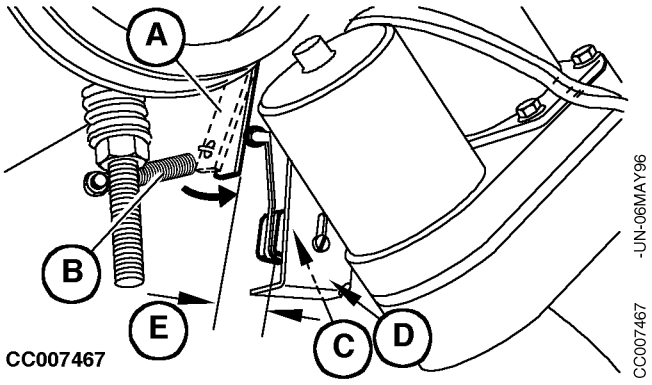
ADJUSTING NET CUT SWITCH

Open right-hand door.

Check if plate (A) is moving freely. Check tension of spring (B).

Fully push on plate (A) in the direction indicated by the arrow, then adjust switch (C) and/or switch support (D) position so that specified distance (E) between bottom of switch and plate (A) is achieved.

A—Plate
B—Spring
C—Switch
D—Switch support
E—7±1 mm (0.27±0.04 in.)



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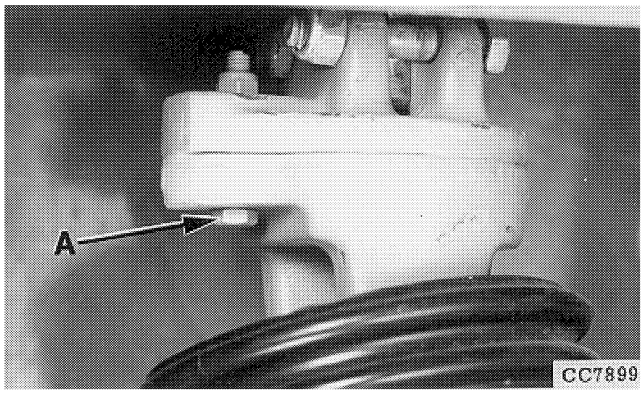
REPLACING POWERLINE SHEAR BOLT

Line up holes in shear bolt hub and install a 8 x 50 mm, grade 8.8 cap screw and lock nut (A).

IMPORTANT: To avoid overloads on shear bolt, the PTO must be engaged slowly.

Reinstall powerline shield on baler tongue.

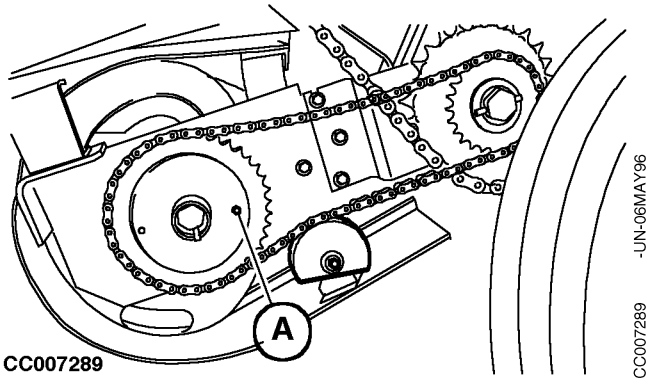


CC,570RB 001614-19-15SEP98

REPLACING PICKUP DRIVE SHEAR BOLT (BALER WITH STANDARD PICKUP)

Line up hub and sprocket holes, then install a 6 x 30 mm grade 8.8 cap screw and nut (A).

Reinstall all shields previously removed.



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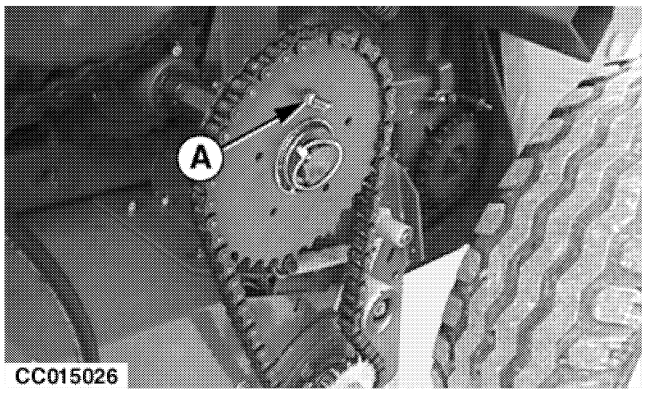
REPLACING PICKUP DRIVE SHEAR BOLT (BALER WITH WIDE PICKUP)

Line up hub and sprocket holes, then install a 8 x 35 mm grade 8.8 cap screw and lock nut (A).

Reinstall all shields previously removed.



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ADJUSTING NET FEED ROLL PRESSURE

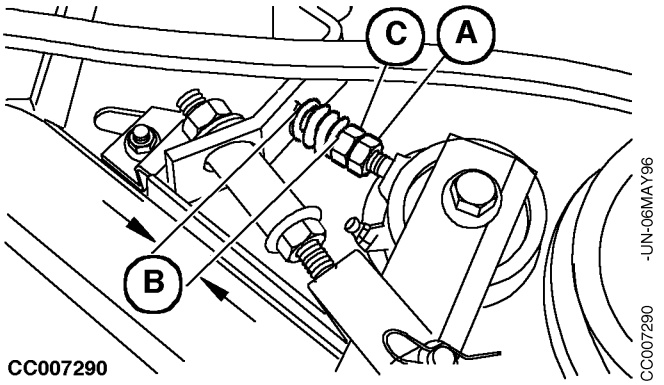
Open side doors.

Loosen lock nut (A) and adjust the spring length until specified dimension (B) is obtained by loosening or tightening spring adjusting nut (C).

NOTE: Make sure that galvanized feed roll is moving freely under the action of the springs.

Too much pressure can cause net to roll up. A lack of pressure will prevent net being transported to the bale.

Remove any foreign material or net from between the feed rolls.



A—Lock nut
B—20 mm (0.78 in.)
C—Spring adjusting nut

CC,575RB 004124-19-15NOV98

ADJUSTING NET KNIFE ARM STOP

Check that rear net guide is correctly adjusted. See “Removing And Installing Rear Net Guide” in this Section.

Extend actuator (A).

Adjust stop (B) to obtain a distance (D) above 1 mm (0.04 in.).

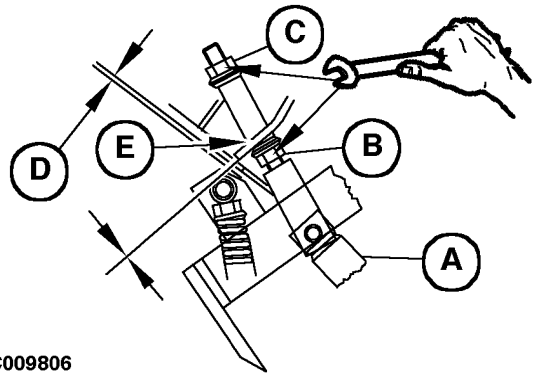
Tighten nut (C).

Retract actuator (A) so that knife arm stop (C) touches the stop (E).

Check for light contact between the front edge of the knife (F) and the front net guide rubber band (G) with the arm stop (C) against the stop (E).

If needed adjust the front net guide position as required to obtain a light contact between the front net guide rubber band (G) and the knife (F).

IMPORTANT: To avoid net wrapping erratic functions, always check that actuator rod is slightly extended once adjustment is done.



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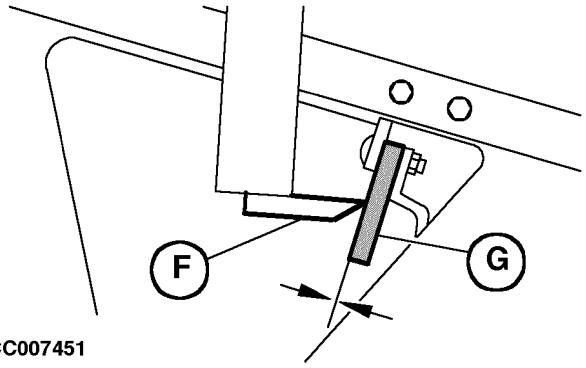
CC009806



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CC007451

A—Actuator
B—Stop
C—Knife arm stop nut
D—1 mm (0.04 in.) min.
E—Stop
F—Knife
G—Rubber band

CC,575RB 003634-19-15NOV98

CHECKING NET FEED ROLL BRAKE

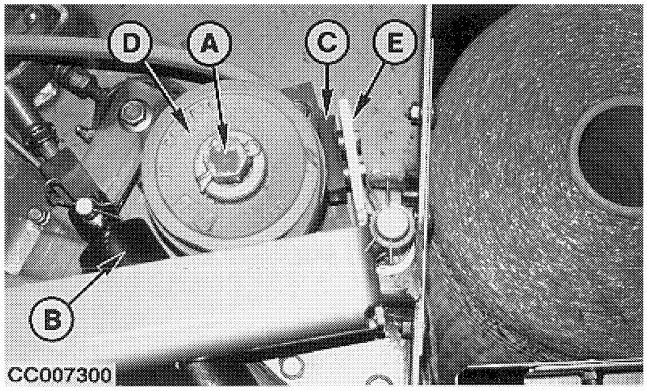
IMPORTANT: Check that net knife arm stop adjustment is correct prior to checking the net feed roll brake. See "Adjusting Net Knife Arm Stop" in this Section.

Check that the net feed roll (A) is firmly locked when actuator (B) is fully retracted.

If not, extend actuator (B) so that rubber stop (C) is away from drive roll pulley (D).

Install washers between rubber stop (C) and support (E), then recheck braking effect. Rubber should be compressed 1 to 2 mm (0.04 to 0.08 in.) when actuator (B) is against stop.

NOTE: If worn, rubber stop pad can be reversed.



A—Net feed roll
B—Actuator
C—Rubber stop
D—Pulley
E—Support

CC,575RB 003151-19-15NOV98

ADJUSTING NET FEED ROLL DRIVE BELT TENSION

Open right-hand door.

Retract net actuator to release belt tension.

- Adjust length of tension springs (C) to the specified dimension (F) using the lower adjusting nut (D).

NOTE: Upper nut (E) must be all the way up when adjusting spring tension.

Slowly extend actuator until knife (G) is aligned with the rear net guide (H).

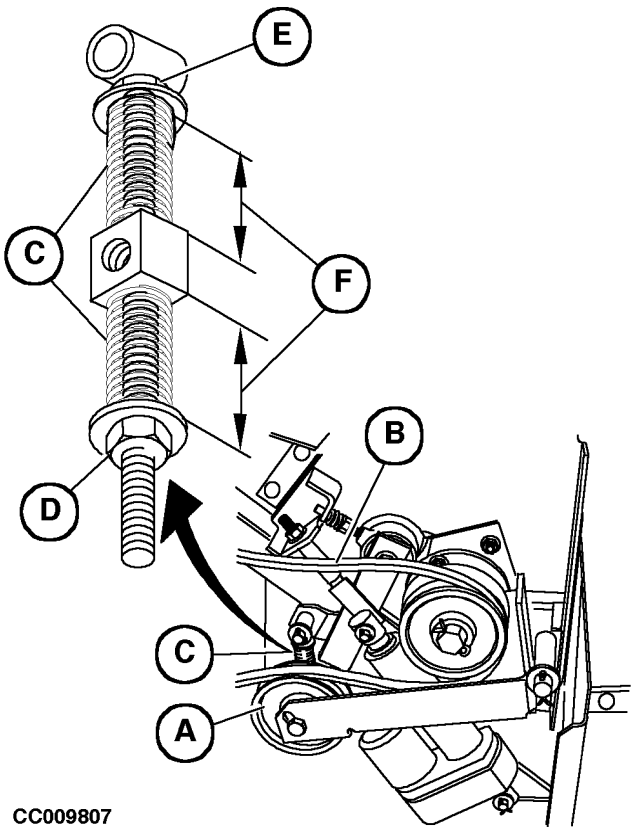
You must be able to turn the net feed roll drive pulley by hand. If not, the belt is probably not the genuine specified belt. Replace belt (B) with a correct belt. See your John Deere dealer.

NOTE: When actuator stop washer is against knife arm stop, top edge of knife should be between 10 to 20 mm (0.4 to 0.8 in.) behind level of rear guide (H). In that position, actuator rod should not be fully extended and you must not be able to turn the net feed roll drive pulley by hand.

If yes move the tightening pulley up in the slot provided and check again the net feed roll drive belt adjustment.

If yes with the tightening pulley in the upper position, the belt is probably not the genuine specified belt. Replace belt (B) with a correct belt. See your John Deere dealer.

A—Tightening pulley
B—Drive belt
C—Tension springs
D—Adjusting nut
E—Upper nut
F—55 to 57 mm (2.16 to 2.24 in.)
G—Knife
H—Rear guide



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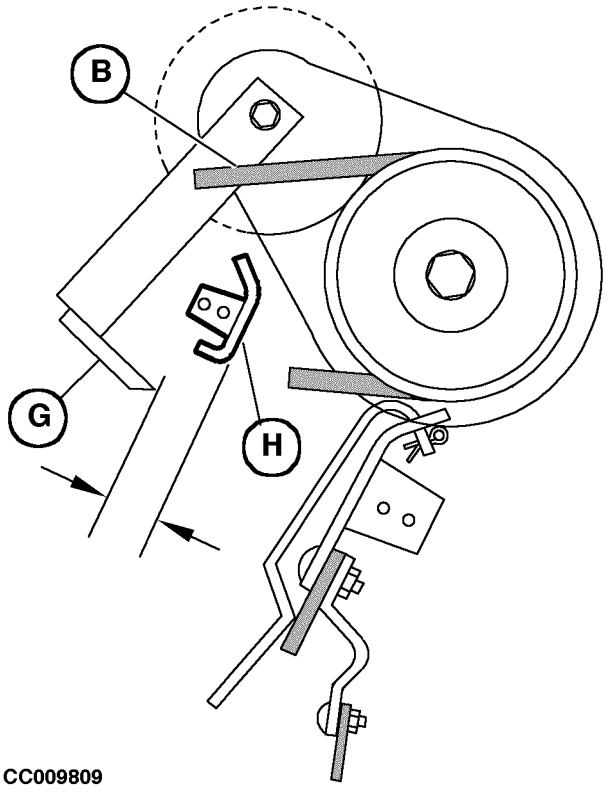

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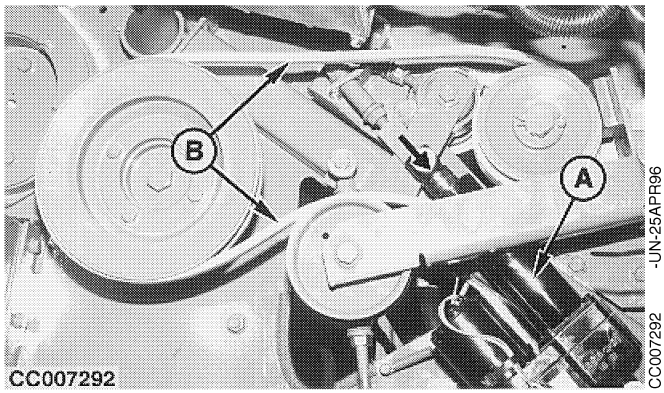
CC,575RB 003635-19-15NOV98

REMOVING NET FEED ROLL DRIVE BELT

- Open right-hand door.

- Retract net actuator (A) to release belt tension.

- Remove belt (B) from sheaves.



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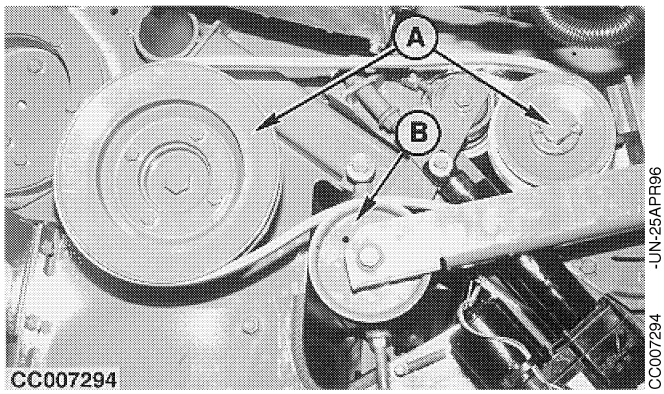
INSTALLING NET FEED ROLL DRIVE BELT

- Install a new belt around sheaves (A) and idler (B) as shown.

Check for correct positioning of knife edge as described under “Adjusting Net Feed Roll Drive Belt Tension” in this Section.



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REMOVING AND INSTALLING NET KNIFE

CAUTION: Prevent personal injury by wearing gloves to handle net knife.

Note position of knife cutting edge for reinstallation.

Slowly extend actuator (A) so that knife bolts (B) are fully accessible from the side opening (C), then disconnect actuator plug (D).

Remove bolts and nuts (B) on each side of knife (E), then remove knife (E) from brackets (F).

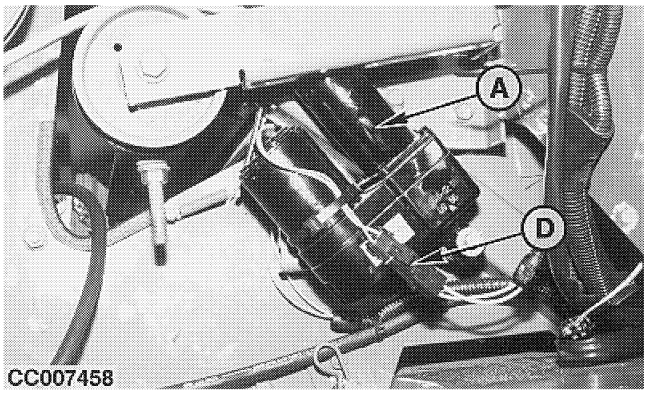
Install knife (E) on brackets (F) in the same position as before removal.

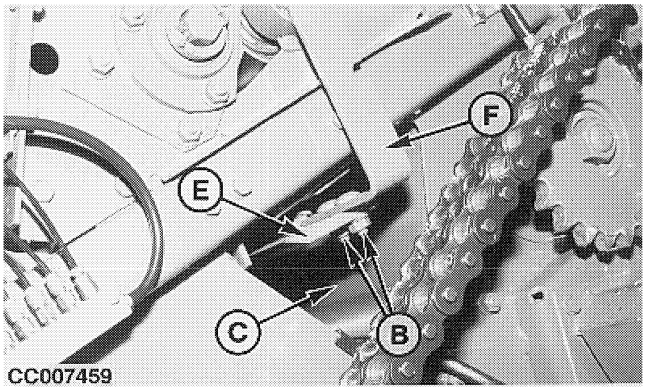
Secure knife (E) by means of bolts and nuts (B).

Tighten bolts to 55 N·m (40 lb-ft).

Reconnect actuator plug (D) and retract actuator (A).

A—Actuator
B—Bolts
C—Opening
D—Actuator plug
E—Knife
F—Bracket





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SHARPENING NET KNIFE

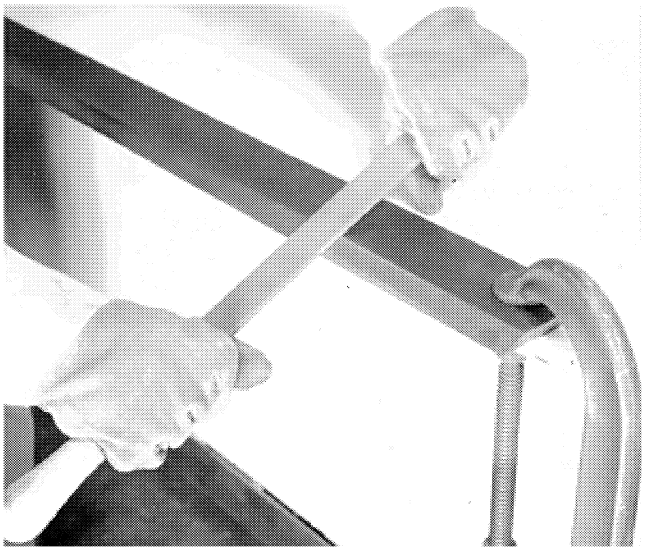
CAUTION: Prevent personal injury by wearing gloves to handle net knife.

Remove any residue from beveled edge.

Clamp knife to a bench or table.

Draw-file the beveled edge maintening a 25° angle.

Keep the sharpened edge straight, within 1 mm (0.04 in.).



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REMOVING AND INSTALLING REAR NET GUIDE

The rear net guide (A) is accessible from the top of the baler.

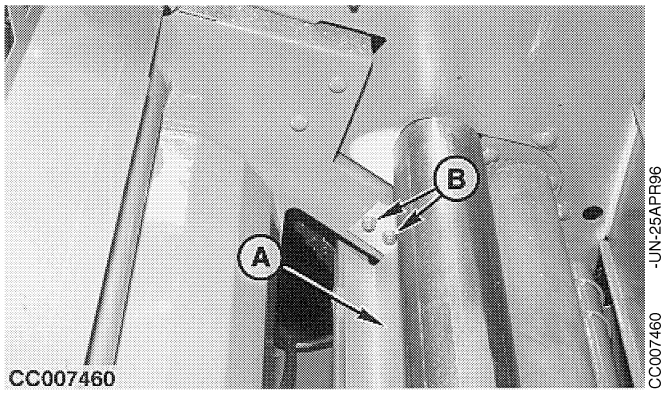
- Remove the four mounting screws (B), then remove rear net guide (A) from its frame.

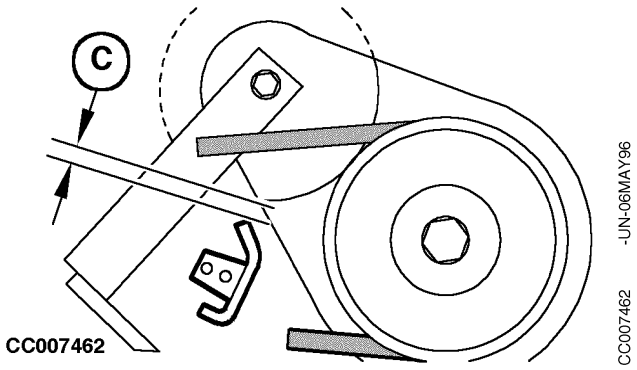
- Install rear net guide (A) as shown and secure with its four mounting screws (B).

- Adjust clearance (C) between top edge of guide and galvanized roll to the minimum, without contact.

Tighten mounting screws (B) to 28 N·m (20 lb-ft).

A—Rear guide
B—Screws
C—Minimum





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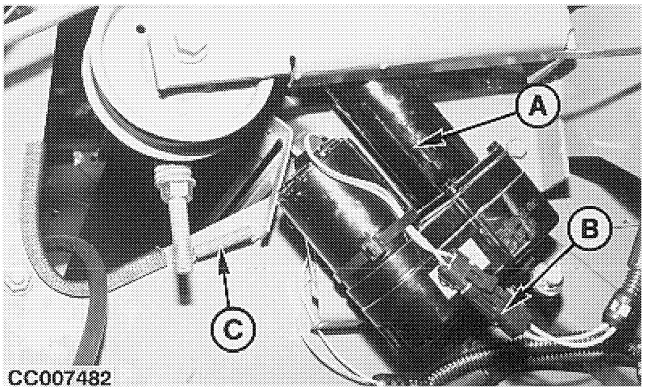
REMOVING FRONT NET GUIDE

- Remove rear net guide. See “Removing And Installing Rear Net Guide” in this Section.

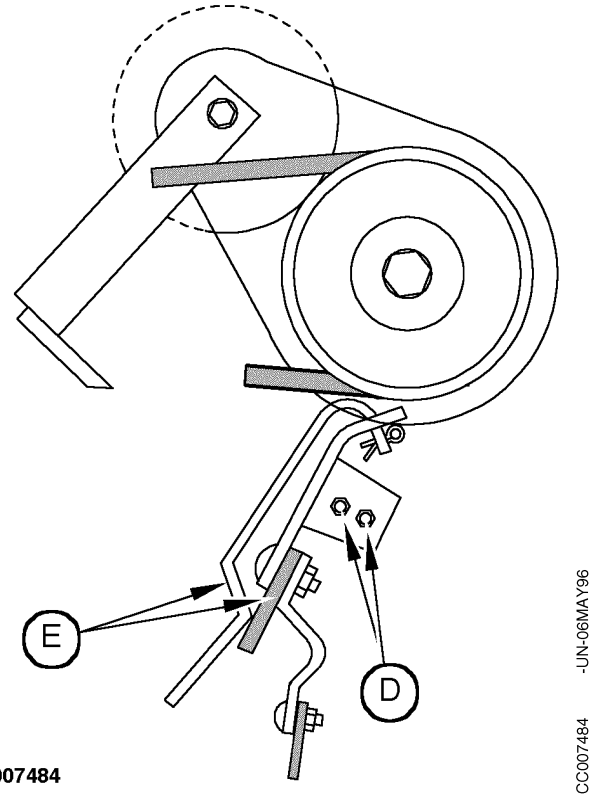
- Fully extend net actuator (A), then disconnect connector (B).

- Remove spring (C), then the four mounting screws (D).

- Remove front net guide (E) from its frame through l.h. opening.



A—Net actuator
B—Connector
C—Spring
D—Mounting screws
E—Front net guide



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INSTALLING FRONT NET GUIDE

- Reverse removal procedure to install front net guide (A) taking care that the pivoting plate (B) is engaged in front net guide slots (C).

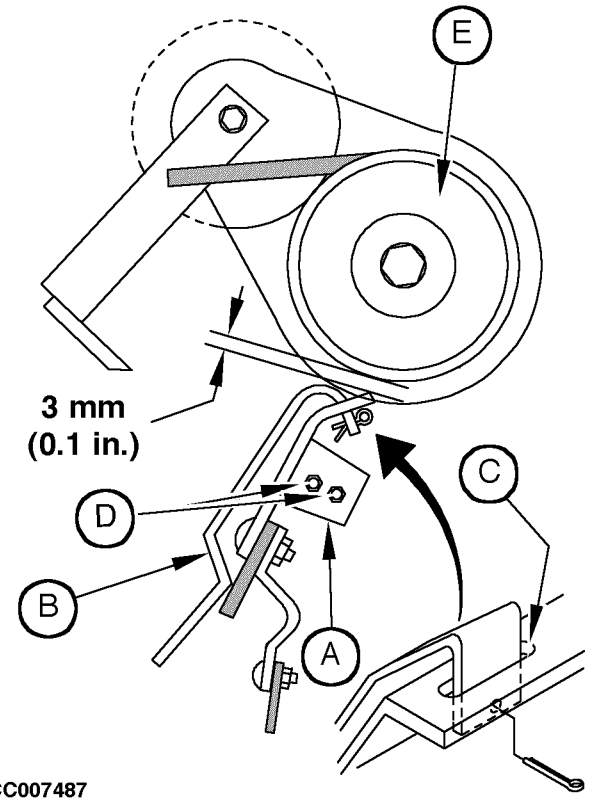
- Secure front net guide assembly with mounting screws (D).

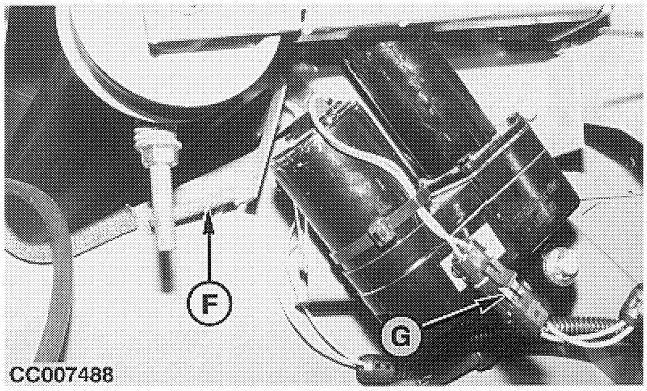
- Adjust clearance between top edge of guide (A) and rubber coated roll (E) to approx. 3 mm (0.1 in.).

- Tighten mounting screws to 28 N·m (20 lb-ft).

- Attach spring (F) then reconnect connector (G).

A—Front net guide
B—Pivoting plate
C—Net guide slots
D—Mounting screws
E—Rubber coated roll
F—Spring
G—Connector





CC,575RB 003177-19-15NOV98

CHECKING FRONT NET GUIDE RUBBER BAND

Remove front net guide. See “Removing Front Net Guide” in this Section.

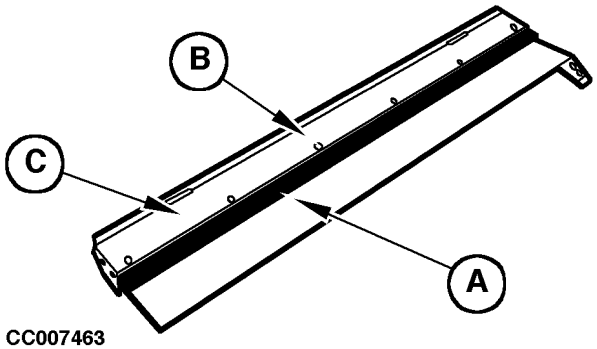
IMPORTANT: Check that rubber band (A) is not cut, sticky, dirty or cracked.

If so, remove all bolts (B) from plate (C) and replace rubber band (A).

IMPORTANT: Always install rubber band (A) with smooth surface facing net knife. Failure to do so could result in net malfunction.

Install front net guide. See “Installing Front Net Guide” in this Section.

Readjust knife arm stop. See “Adjusting Net Knife Arm Stop” in this Section.



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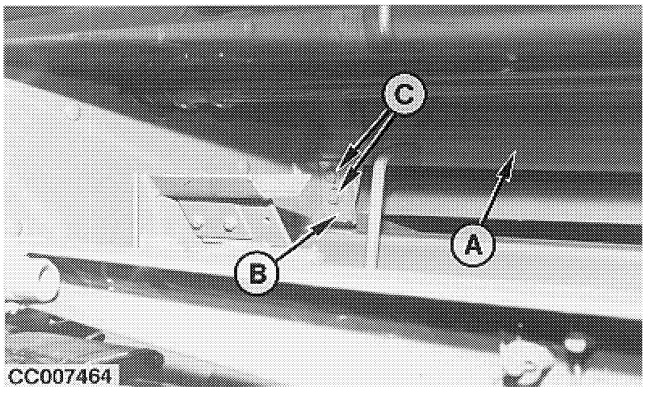
REPLACING FRONT NET GUIDE RUBBER PADDLE

When the vibrating effect on plate (A) is no longer occuring, rubber paddle (B) must be replaced. Proceed as follows:

- Remove all bolts (C) and replace rubber paddle (B).

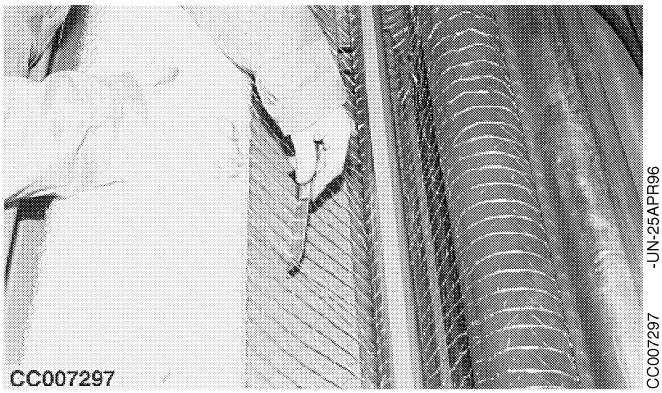
- Reinstall and check for proper contact between rubber paddle (B) and intermediate front frame roll “15”, thus creating a good vibrating effect of plate (A). See “Baler Roll Numbering” in this Section.



CC,575RB 003170-19-15NOV98

REMOVING NET WRAPPED AROUND FEED ROLLS

IMPORTANT: Do not cut net wrap 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.



If net wraps around the rubber roll:

Disengage PTO. Shut off tractor engine.

Extend actuator to just release the feed roll brake.

Open the net box.

Cut the net material between the net roll and the spiral idler roll.

Pull the surface wrap, rotating the rubber feed roll in reverse.

Wipe off 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.

Apply talcum powder to rubber feed roll.

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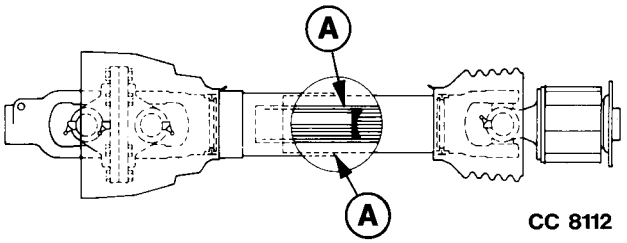
STORING BALER AT THE END OF SEASON



• Clean baler thoroughly inside and out. Trash and dirt will draw moisture and cause rust.

• If net wrapping is installed, clean net wrapping frame thoroughly inside and out. Remove net roll and store in a cool, dry place. Sharpen and grease net knife.

NOTE: Should a high-pressure washer be used to clean the baler, do not direct pressurized water on the bearings or electrical components.

• Check that all rolls are working freely. If one of them is hard to rotate, remove it, clean bearing housing and replace bearing, if necessary.

• Apply a few drops of oil to all pivot points and linkages.

• Thoroughly lubricate baler. See “Lubrication and Maintenance” Section.

• Apply a thin layer of grease to threads of all adjusting bolts.

• Grease guard tubes (A) at the beginning of the winter season to prevent freezing.

• All parts from which the paint has been worn should be painted or coated with oil to prevent net from sticking.

• Clean all chains by washing them with diesel fuel. Dry thoroughly and coat with a heavy oil.

• Block up baler, taking load off tires. Do NOT deflate tires. If exposed, cover tires to protect them from light, grease and oil.

• Protect electrical connectors against corrosion with adequate fluid.

• List the replacement parts that will be needed and order them.

CC,575RB 001426-19-08DEC94

PREPARING FOR BEGINNING OF SEASON

• Check and fill gear case up to check plug level. See “Lubrication and Maintenance” Section.

• Remove the oil from the chains.

• 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 bolts, nuts and set screws. See “Service” Section.

• Check adjustments of baler as described in “Service” Section.

• Review your operator’s manual.

• Check for correct Electronic Wrapping Control Monitor functioning.

• Check that net knife is sharp.

• Check adjustments of net wrapping. See “Service” Section.

• Wipe off feed rolls and check for any sticky material. If necessary, roll may be washed with soap water. NEVER use solvents to clean rubber feed roll.

• Apply talcum powder to rubber feed roll.

CC,565RB 004738-19-11FEB99

SPECIFICATIONS FOR 565 BALER

SIZE OF BALES	
Diameter	1.25 m (4.1 ft)
Width	1.17 m (3.83 ft)
BALER	
Weight (with wide wheels, ramp and standard pickup)	2100 kg (4630 lb)
Length, gate closed	4.15 m (13.61 ft)
Length, gate open	4.65 m (15.25 ft)
Height, gate closed	2.20 m (7.21 ft)
Height, gate open	3.00 m (9.84 ft)
Width	2.45 m (8.04 ft)
STANDARD PICKUP	
Width (between flare)	1.41 m (4.63 ft)
Width (between outer teeth)	1.12 m (3.67 ft)
Tooth bars	5
Number of teeth	90
Tooth spacing	66 mm (2.5 in.)
Stripper diameter	425 mm (16.73 in.)
WIDE PICKUP	
Width (between flare)	2.00 m (6.56 ft)
Width (between outer teeth)	1.65 m (5.41 ft)
Tooth bars	5
Number of teeth	130
Tooth spacing	66 mm (2.5 in.)
Stripper diameter	425 mm (16.73 in.)
TWINE/NET WRAP	
Control	Manual or automatic
Type	Electrically driven
Twine spacing	Manually or automatically controlled
Number of net turns	Manually or automatically controlled
Twine cut	Visual
Net cut	Sound alarm
BALE FORMATION CONTROLS	
Bale shape indicators	Mechanical
MISCELLANEOUS	
PTO shaft speed	540 rpm
Drive protection	Shear bolt
Powerline	Constant velocity powerline
Recommended tractor power (minimum)	37 kW (50 hp) at PTO
Tire size	11.5/80 x 15.3 (10 PR) 500/40 - 17 (19/45 - 17) (10 PR) 500/50 - 17 (10 PR)
Tongue	Adjustable
SOUND LEVEL	
Max. sound level in accordance with prEN1553; measurement method in accordance with ISO3744 (average value)	85 dB(A)

CC,565RB 004655-19-15NOV98

DECLARATION OF CONFORMITY

John Deere Arc-lès-Gray
Avenue Jean Jaurès
F-70103 Gray

The Round Baler

Model 565

comply with the EU provisions:

98/37/EEC . . . . . Machine Directive
89/336/EEC . . . . . EMC Directive
and prEN704 . . . . . Pick-up Balers

Arc-lès-Gray 01 May 1999

. . . . . .

Larry N. SMITH
(Manager Product Engineering)

-19-11MAY99

CC015027

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Serial Numbers

SERIAL NUMBER PLATES

Serial numbers identifying the baler and the attachments are stamped on factory serial number plates.

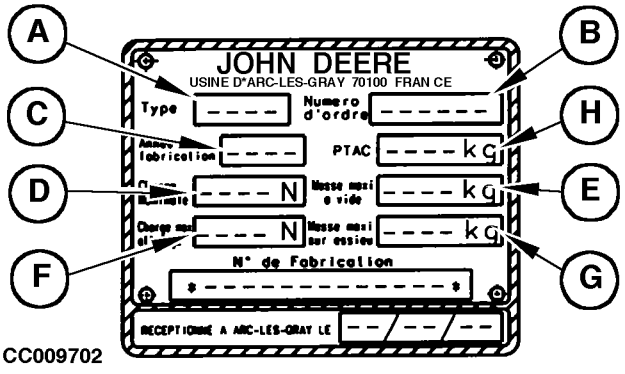
These numbers and letters are required when ordering baler or attachment replacement parts.

To ensure that you have these numbers at hand, enter the appropriate serial numbers in the spaces provided in each illustration.

CC,570RB 001643-19-15NOV98

BALER SERIAL NUMBER PLATE

A—Model designation
B—Serial number
C—Year of production
D—Nominal load
E—Weight
F—Maximum load at hitch
G—Maximum load on axle
H—Maximum permissible total weight



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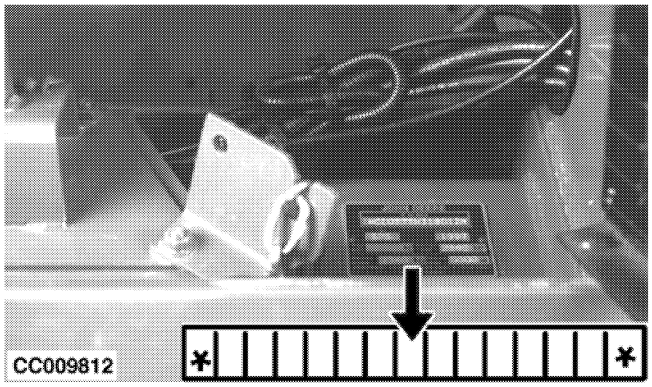
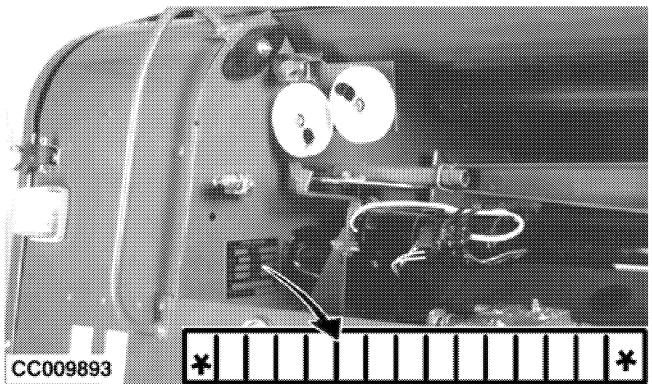
BALER IDENTIFICATION NUMBER

The baler identification number plate is located on the r.h. or l.h. side of the baler, behind the hinged protection screen.





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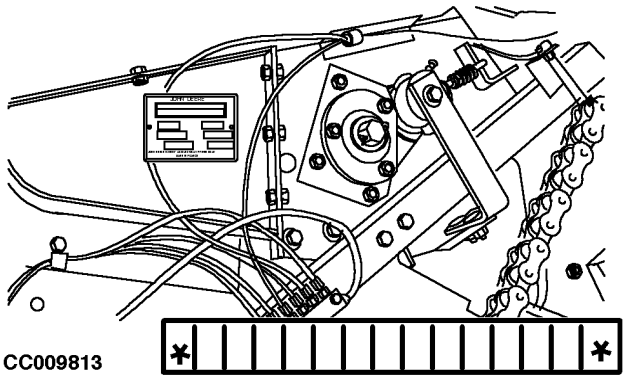
NET WRAPPING SERIAL NUMBER

On some balers the serial number plate is located on the l.h. side of net frame.



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John Deere Service Keeps You On The Job

JOHN DEERE PARTS

We help minimize downtime by putting genuine John Deere parts in your hands in a hurry.

That's why we maintain a large and varied inventory—to stay a jump ahead of your needs.

TS100 -UN-23AUG88

DX,IBC,A -19-04JUN90

THE RIGHT TOOLS

Precision tools and testing equipment enable our Service Department to locate and correct troubles quickly . . . to save you time and money.

TS101 -UN-23AUG88

DX,IBC,B -19-04JUN90

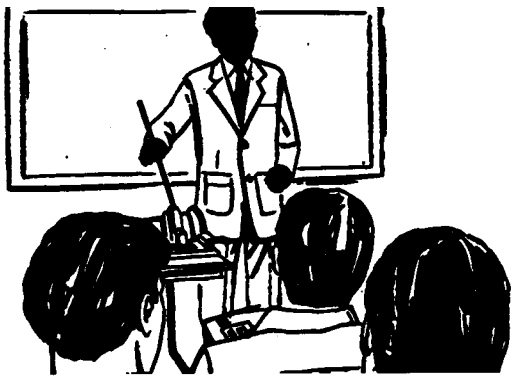
WELL-TRAINED TECHNICIANS

School is never out for John Deere service technicians.

Training schools are held regularly to be sure our personnel know your equipment and how to maintain it.

Result?

Experience you can count on!



TS102 -UN-23AUG88

DX,IBC,C -19-04JUN90

PROMPT SERVICE

Our goal is to provide prompt, efficient care when you want it and where you want it.

We can make repairs at your place or at ours, depending on the circumstances: see us, depend on us.

JOHN DEERE SERVICE SUPERIORITY: We'll be around when you need us.

TS103 -UN-23AUG88

DX,IBC,D -19-04JUN90