



DCY

568 and 578 Round Balers

OPERATOR'S MANUAL 568 and 578 Round Balers

OMCC58644 Issue J7 (ENGLISH)

CALIFORNIA
Proposition 65 Warning

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

If this product contains a gasoline engine:

 **WARNING**

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

The State of California requires the above two warnings.

John Deere Arc-lès-Gray
(This manual replaces OMCC58618 Issue B7)
European Version
Printed in U.S.A.



OMCC58644

Introduction

Foreword

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

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

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

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

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the 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.

CC03745,0000C3E -19-17JAN07-1/1

Predelivery Inspection

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

1. All grease fittings lubricated.
2. Gear case oil level checked and topped up (if necessary).
3. Tire inflation checked and adjusted.
4. All bolts and nuts have been tightened to specified torque.
5. Grease from net knife wiped off.
6. Net roll tensioning springs set to 20 mm (0.78 in.) (baler with standard net tying only).
7. Talc applied to rubber coated net roll (baler with standard net tying only).
8. Battery harness has been installed on baler equipped with BaleTrak[®] monitor.
9. Test run of the machine made.
10. Gate opens and closes freely.
11. The precutter device is functioning properly.
12. Monitor functioning properly.
13. Switches correctly adjusted.
14. Hydraulic hoses and connections checked for leaks.
15. Chains are correctly tensioned and lubricated.
16. Paint and decals are smooth and neat.
17. Operator's Manual has been given to the customer.
18. The operator is familiar with the safety precautions to be taken with his machine.

Date:

Signature Dealer/Service Technician:

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Identification Views

Identification Views



CC1028275

CC1028275 -UN-21SEP06

568 SilageSpecial Baler

OUCC006,00010CE -19-13OCT06-1/3



CC1028276

CC1028276 -UN-21SEP06

568 MultiCrop Baler

Continued on next page

OUCC006,00010CE -19-13OCT06-2/3

Identification Views



CC1028277

578 Premium Baler

CC1028277 -UN-21SEP06

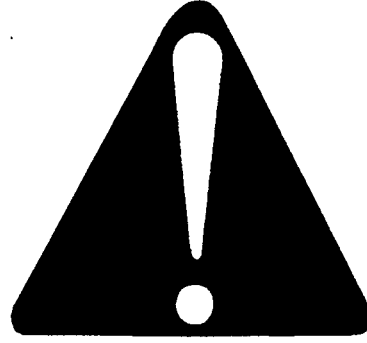
OUC006.00010CE -19-13OCT06-3/3

Safety

Recognize Safety Information

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

Follow recommended precautions and safe operating practices.



T81389 -UN-07DEC88

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

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.



▲ WARNING

▲ CAUTION

TS187 -19-30SEP88

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

Follow Safety Instructions

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

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

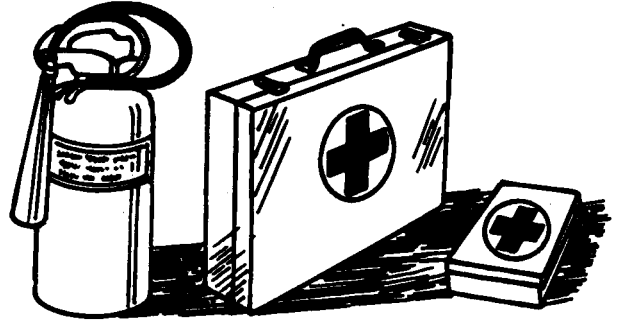
DX,READ -19-03MAR93-1/1

Prepare for Emergencies

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

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



TS291 -UN-23AUG88

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

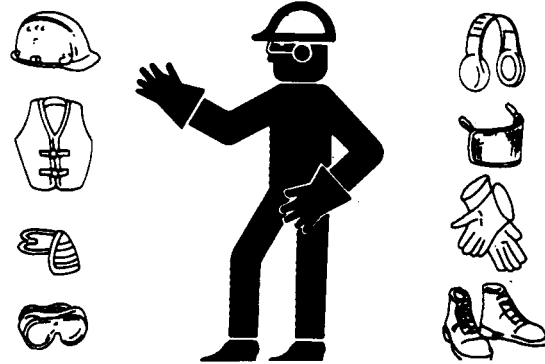
Wear Protective Clothing

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

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

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

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



TS206 -UN-23AUG88

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

Operate Baler Safely

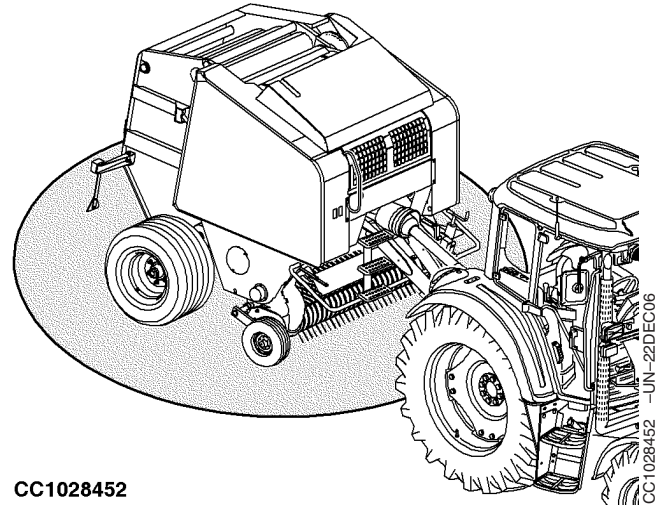
Always check the road and general operating safety of the machine before using.

This machine features automatic sequence with dwelling positions: the machine may seem to stop and restart unexpectedly.

Before entering the working area of the machine, always:

- Disengage PTO.
- Shut off tractor engine.
- Remove main switch key.
- Relieve hydraulic pressure.
- Engage parking lock.
- Apply handbrake.
- Wait for all moving parts to come to a standstill.

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.



CC1028452

OUCC006.00010DA -19-29JUN06-1/1

Stay Clear of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death.

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

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

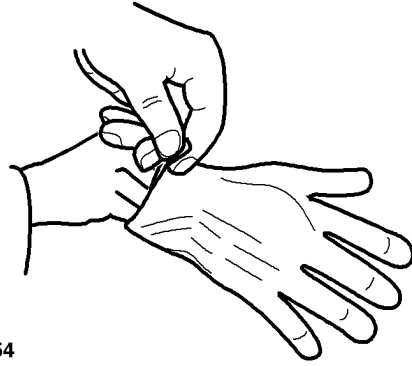


TS1644 -UN-22AUG95

DX,PTO -19-12SEP95-1/1

Handling of Knives

Prevent personal injury by wearing safety gloves to handle knives.



CC1026954

CC1026928 -JUN-26JAN05

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

Observe Maximum Transport Speed

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

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

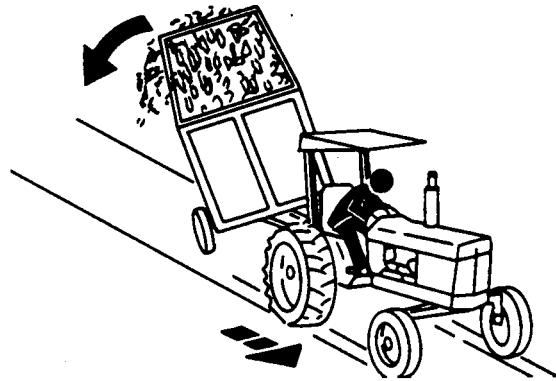
Do not exceed implement gross weight (PTAC) when towing this implement at transport speed.

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

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

- Loss of control of the tractor/implement combination
- Reduced or no braking ability
- Implement tire failure
- Damage to the implement structure or its components

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



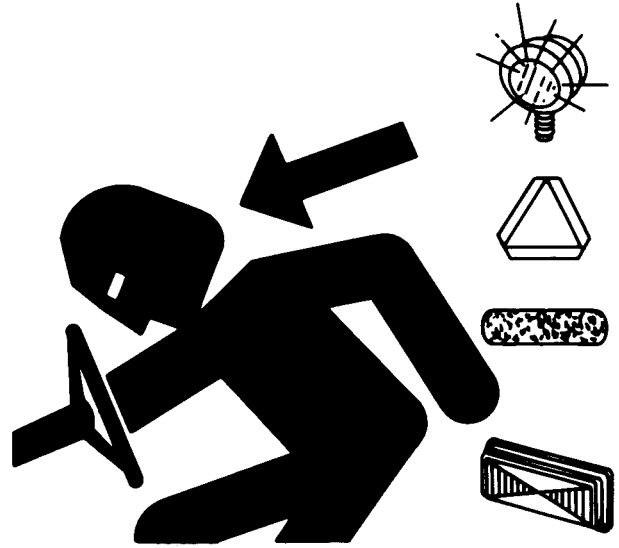
T5216 -JUN-23AUG88

OUCC006,0000ED4 -19-04AUG05-1/1

Use Safety Lights and Devices

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

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



TS851 -UN-12APR90

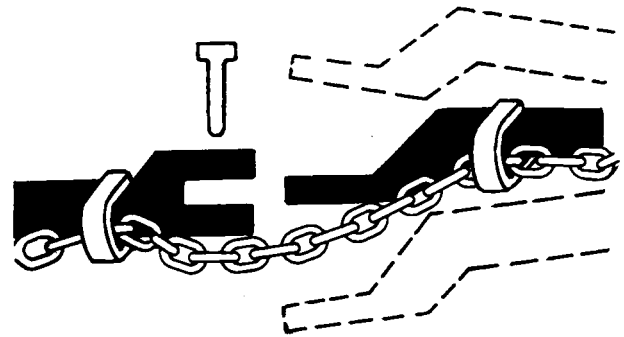
DX,FLASH -19-07JUL99-1/1

Use a Safety Chain

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

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

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



TS217 -UN-23AUG88

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

Extinguishing a Fire

1. Eject bale immediately.
2. Move tractor and baler as far as possible away from flammable material, ensuring that the wind does not blow the fire towards the machine.
3. Raise gate and engage locking device.
4. Use pressurized water fire extinguisher or other water supply to put out fire.



TS227 -UN-23AUG88

CC03745,0000610 -19-01FEB04-1/1

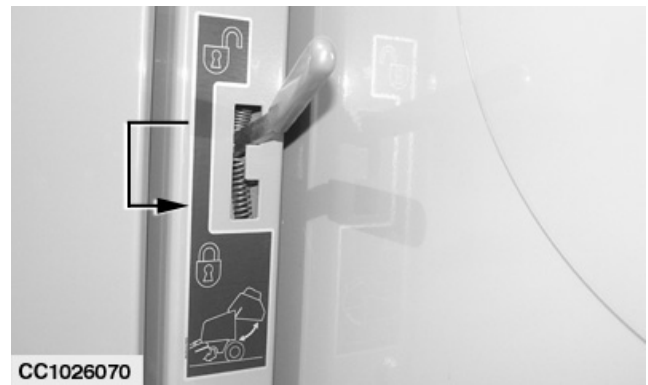
Secure Gate Safely

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.



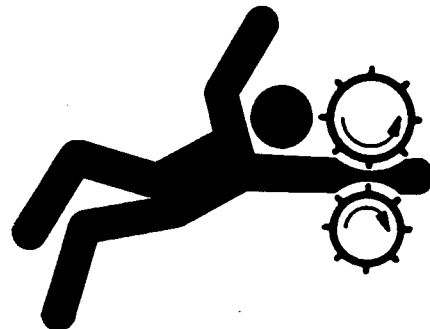
CC1026070 -UN-13JUL04

OUC006,0000BEE -19-17AUG04-1/1

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 -19-04JUN90-1/1

Practice Safe Maintenance

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

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing 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.

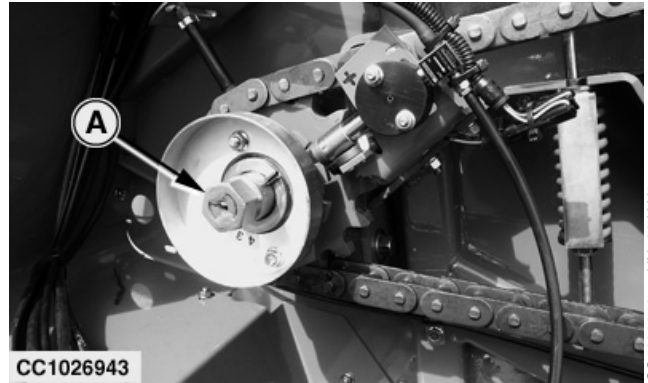


TS218 -UN-23AUG88

DX.SERV -19-17FEB99-1/1

Service Baler Safety

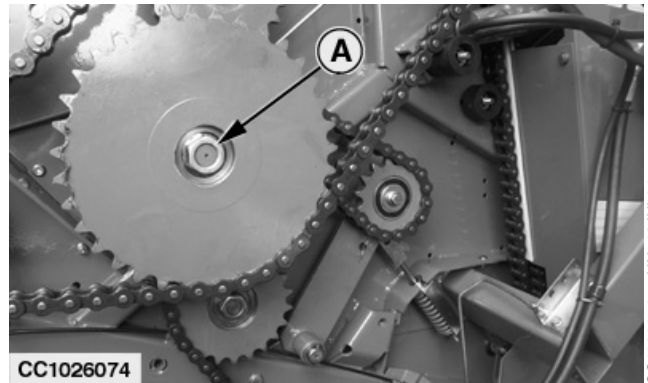
Use a spanner to turn nut (A) to aid in servicing. Never use any type of tool or spanner on shaft while tractor engine is running. Always remove tool from shaft as soon as you have finished using it.



CC1026943

Rotating Baler by Hand (up to S.N. 49999)

CC1026943 -JUN-26JAN05



CC1026074

Rotating Baler by Hand (from S.N. 50000)

CC1026074 -JUN-13JUL04

OUC006.0000DBD -19-13JAN05-1/1

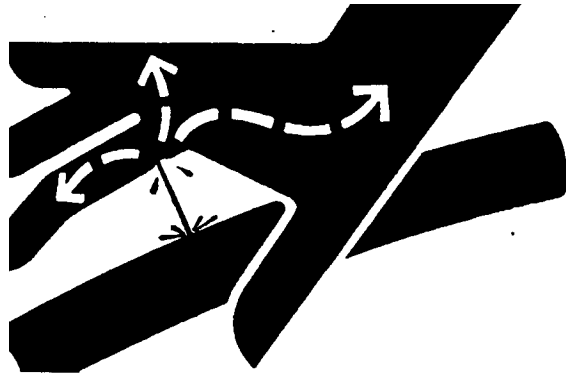
Avoid High-Pressure Fluids

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 -JUN-23AUG88

DX_FLUID -19-03MAR93-1/1

Maximum Hydraulic Operating Pressure

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

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

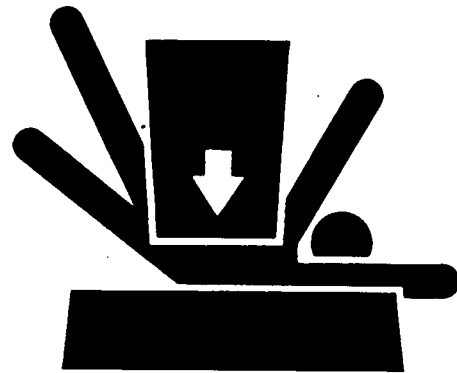
OUCC006.0000487 -19-05SEP01-1/1

Support Machine Properly

Always lower the attachment or implement to the ground before you work on the machine. If the work requires that the machine or attachment be lifted, provide secure support for them. 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 machine, always follow safety precautions listed in the implement or attachment operator's manual.



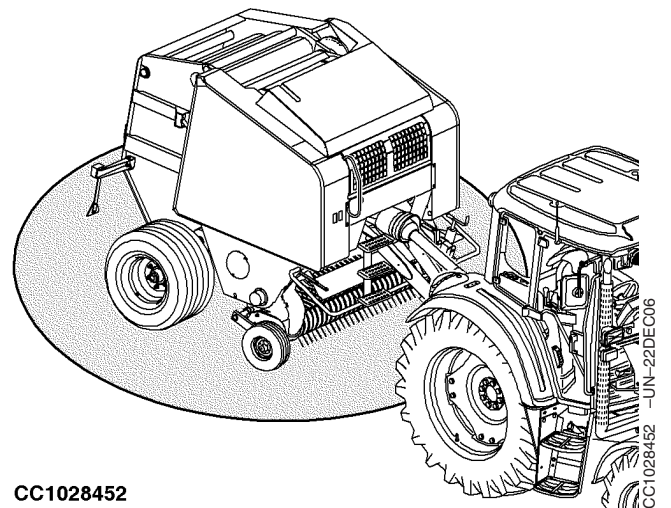
TS229 -UN-23AUG88

DX,LOWER -19-24FEB00-1/1

Protect people and animals

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

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



CC1028452

CC1028452 -UN-22DEC06

OUCC006.00010DB -19-29JUN06-1/1

Remove Paint Before Welding or Heating

Avoid potentially toxic fumes and dust.

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

Remove paint before heating:

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

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

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

Dispose of paint and solvent properly.



TS220 -UN-23AUG88

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

Avoid Heating Near Pressurized Fluid Lines

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



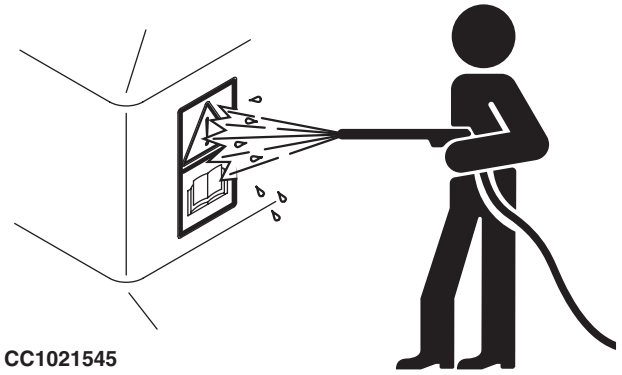
TS953 -UN-15MAY90

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

Avoid High-Pressure Jet on Safety Decals

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

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



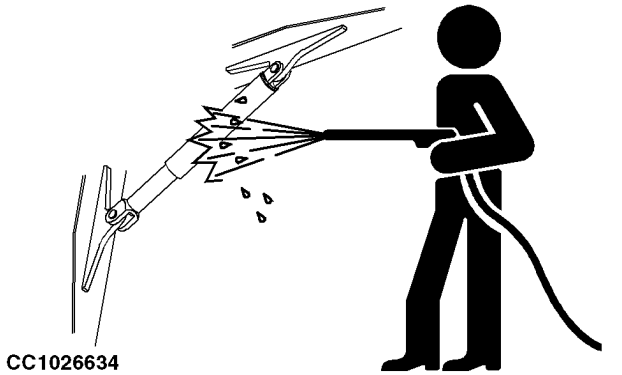
CC1021545

CC1021545 -UN-23APR02

CC03745,0000C2C -19-22NOV06-1/1

Avoid High-Pressure Jet on Cylinders

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



CC1026634

CC1026634 -UN-03DEC04

CC03745,0000C2D -19-22NOV06-1/1

Dispose of Waste Properly

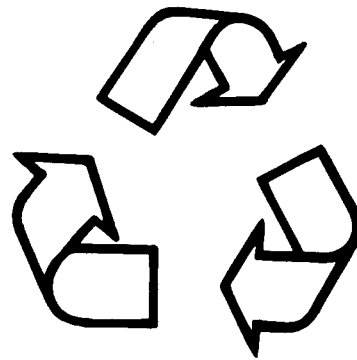
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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 -19-03MAR93-1/1

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.

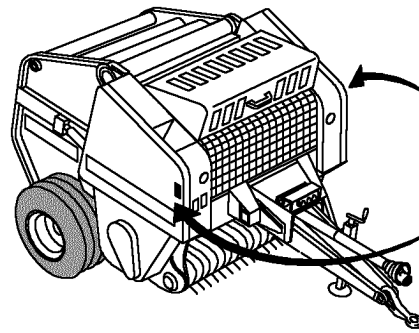


TS231 -19-07OCT18

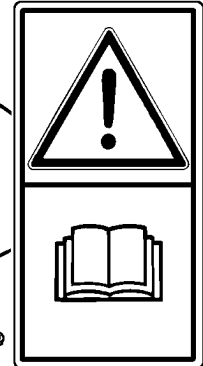
FX,WBZ -19-19NOV91-1/1

Operator's Manual

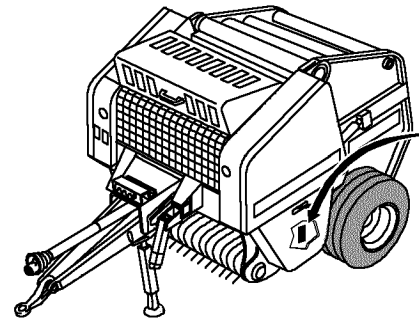
This operator's manual contains all important information necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.



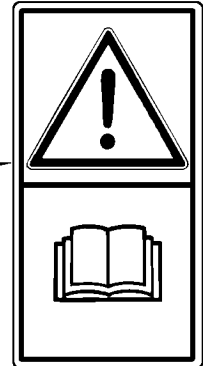
CC007189



CC007189 -UN-06MAY96



CC1028577

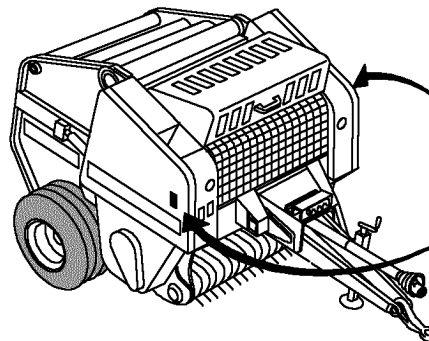


CC1028577 -UN-21SEP06

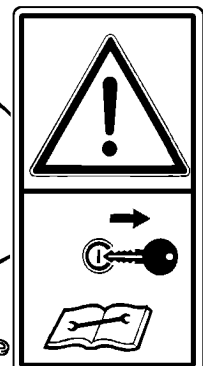
OUC006,000111B -19-27JUL06-1/1

Repair and Maintenance

Before carrying out adjustment, repair and maintenance work, disengage the PTO, place transmission in "PARK", apply handbrake, shut off engine and remove ignition key.



CC007190

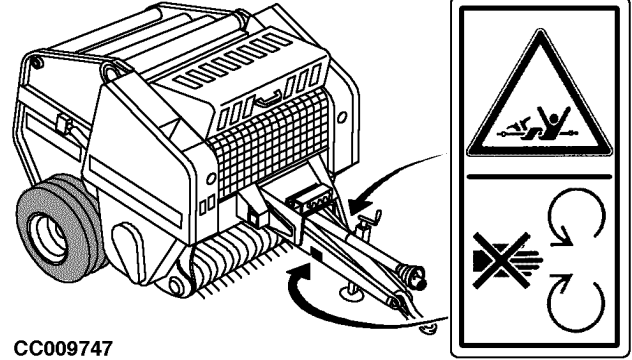


CC007190 -UN-06MAY96

OUC006,0000489 -19-05SEP01-1/1

Baler Drive Line

Stay clear of rotating drive line to avoid personal injury.



CC009747

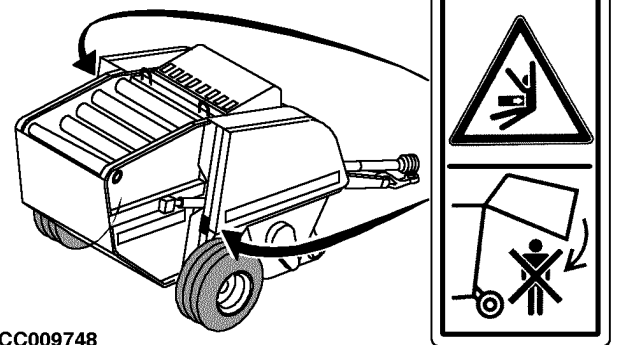
CC009747 -UN-13NOV96

OUCC006.000048A -19-05SEP01-1/1

Raised Gate

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

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



CC009748

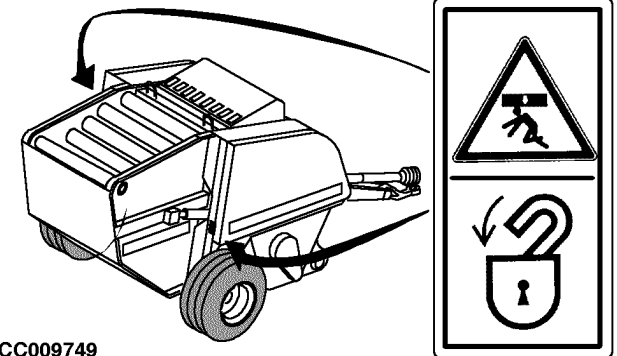
CC009748 -UN-13NOV96

OUCC006.000048B -19-05SEP01-1/1

Gate Safety Lock

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

Stand clear before unlocking the gate safety lock.



CC009749

CC009749 -UN-14NOV96

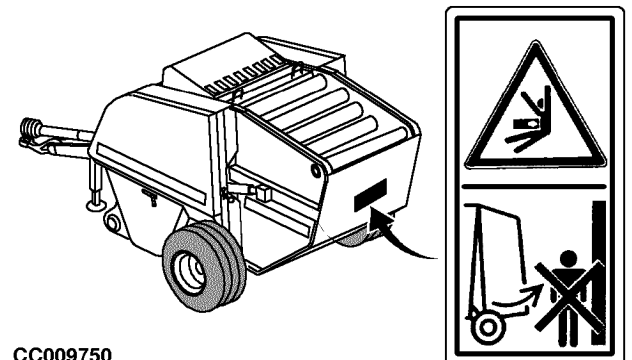
OUCC006.000048C -19-05SEP01-1/1

Gate Opening

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

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

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



CC009750

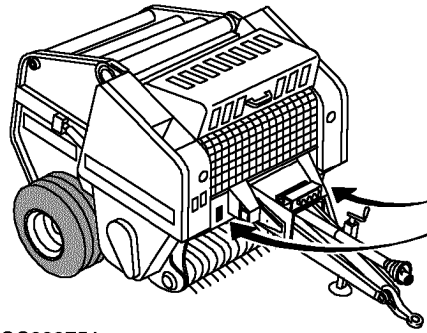
CC009750 -UN-13NOV96

OUCC006.000048D -19-05SEP01-1/1

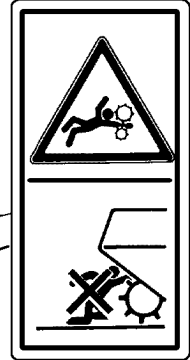
Pickup

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

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



CC009751

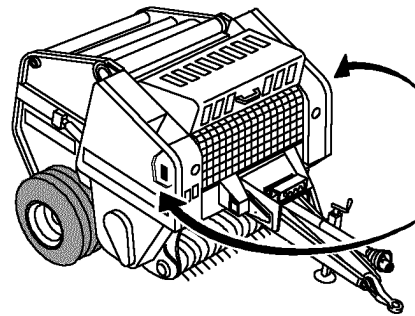


CC009751 -UN-13NOV96

OUCC006.000048E -19-05SEP01-1/1

Drive Chains

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



CC009752

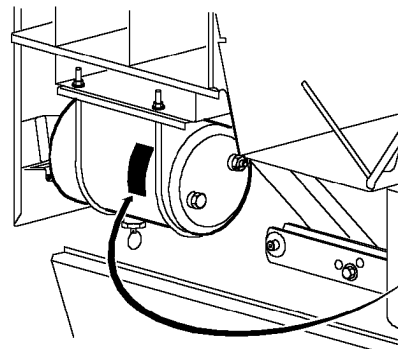


CC009752 -UN-14NOV96

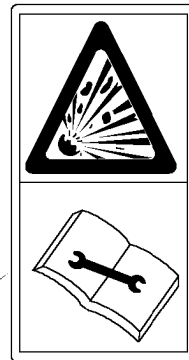
OUCC006.000048F -19-05SEP01-1/1

Compressed Air Tank

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



CC1019947

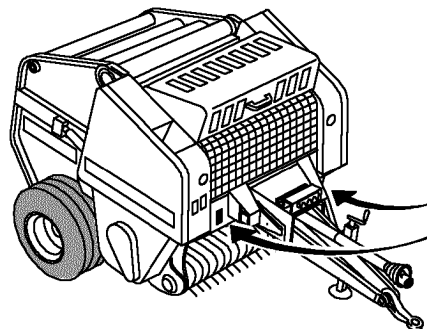


CC1019947 -UN-28AUG01

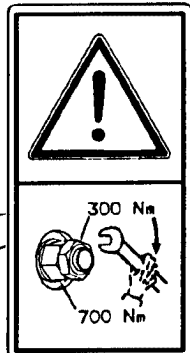
CC03745.000021A -19-22JUN01-1/1

Tongue Frame Attaching Screws

Retighten tongue frame attaching screws at specified intervals.



CC1019946

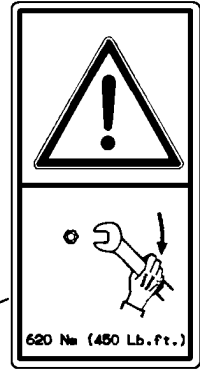
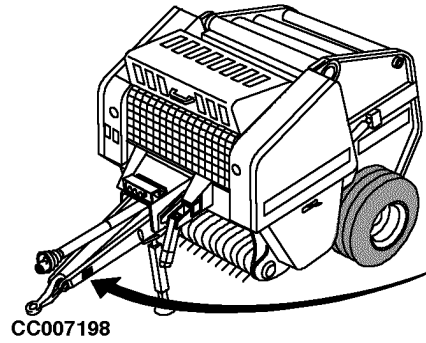


CC1019946 -UN-28JUN01

CC03745.0000219 -19-22JUN01-1/1

Hitch Plate Attaching Screw

Retighten hitch plate attaching screw at specified intervals.



CC007198 -UN-06MAY96

OUCC006.0000490 -19-05SEP01-1/1

Preparing the Tractor

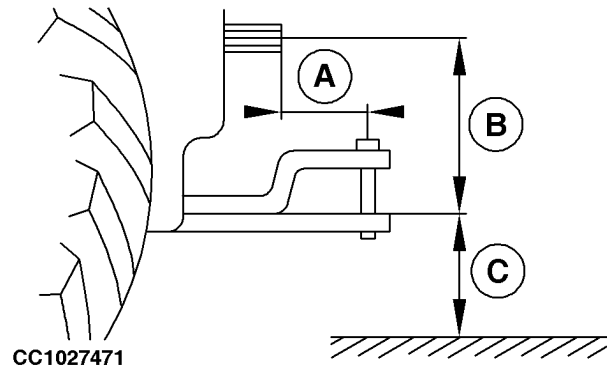
Adjusting Drawbar

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 specifications:

Specification	
End of PTO shaft to drawbar hitch pin hole axis (A)—Distance	355 mm (14 in.)
PTO shaft centerline to drawbar upper face (B)—Distance	150 — 305 mm (6 — 12 in.)
Ground to drawbar upper face (C)—Distance	330 — 510 mm (13 — 20 in.)



CC1027471

A—355 mm (14 in.)
 B—150 — 305 mm (6 — 12 in.)
 C—330 — 510 mm (13 — 20 in.)

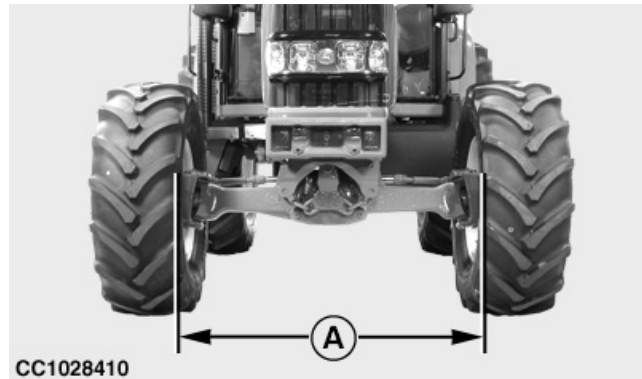
CC1027471 -JUN-11JUL05

OUC006.0000EF4 -19-19JUL05-1/1

Adjusting Tractor Front Tread

Adjust distance from tire inside to tire inside (A) to a minimum of 1372 mm (4 ft 6 in.) or a maximum of 1524 mm (5 ft).

See your tractor operator's manual to make adjustments.



CC1028410

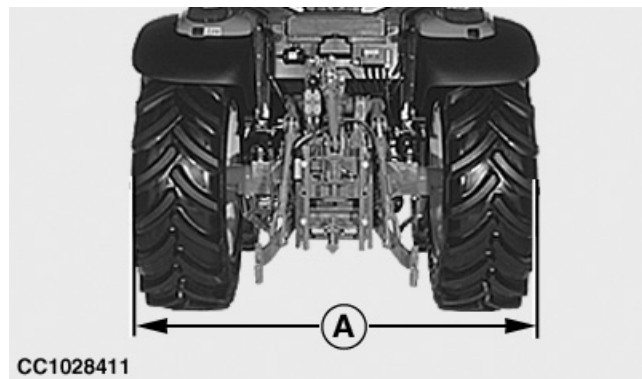
CC1028410 -JUN-21SEP06

OUC006.00010D1 -19-22NOV06-1/1

Adjusting Tractor Rear Tread

Adjust rear tractor wheels to provide an outside tire dimension (A) of 2591 to 2743 mm (8 ft 6 in. to 9 ft).

See your tractor operator's manual to make adjustments.



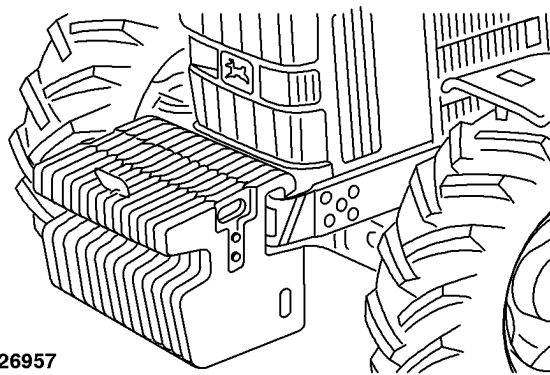
CC1028411

CC1028411 -JUN-21SEP06

OUC006.00010D3 -19-18JAN07-1/1

Checking Tractor Ballast

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



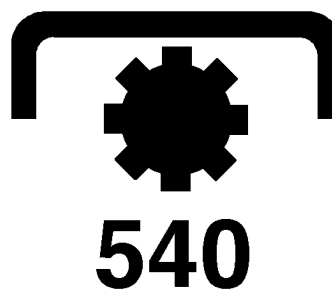
CC1026957

CC1026957 -UN-27JAN05

OUCC006.0000DEF -19-19JAN05-1/1

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.



CC1020007

CC1020007 -UN-09JUL01

CC03745.000021F -19-28JUN01-1/1

Setting Tractor Selective Control Valves

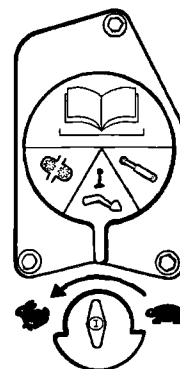
Set tractor selective control valve flow to approximately 40 L/min (10.55 US gal/min). See your tractor operator's manual to make adjustments.

For 3000 Series tractors, make sure the SCV lever returns to neutral position when released.

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

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

For tractors with detent time, set detent time at "0".



CC000833

CC000833 -UN-05APR95

OUCC006.000124F -19-15JAN07-1/1

Installing Support for BaleTrak or ELC Monitor (6000, 7000 and 8000 Series Tractors Only)

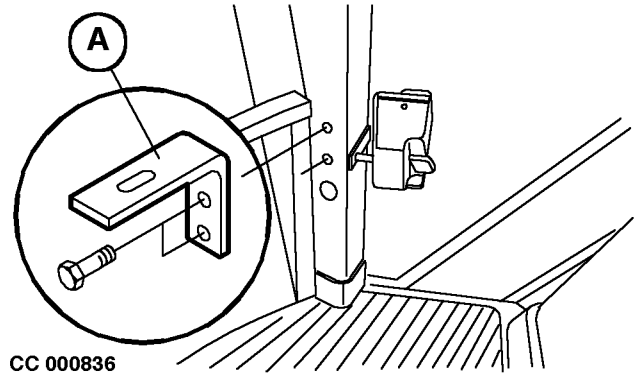
Remove the top two plugs from the lower right-hand cab post.

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).

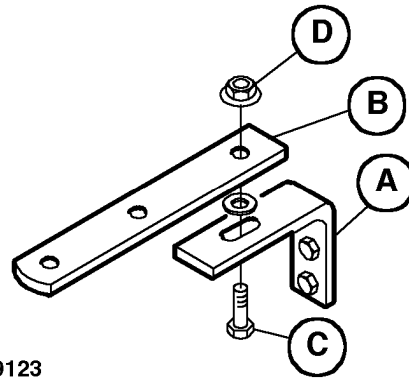
Install monitor to monitor strap (B).

- A—Angle
- B—Monitor strap
- C—Cap screw
- D—Flange nut



CC 000836

CC000836 -UN-05APR95



CC1019123

CC1019123 -UN-07FEB01

OUCC006.000070C -19-10JUL02-1/1

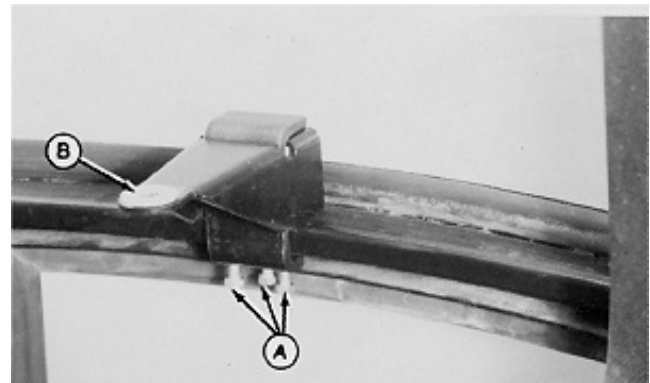
Installing Support for BaleTrak or ELC Monitor (All Tractors Except 6000, 7000 and 8000 Series Tractors)

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.

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

Place washer (B) over hole.

Secure support to bracket.



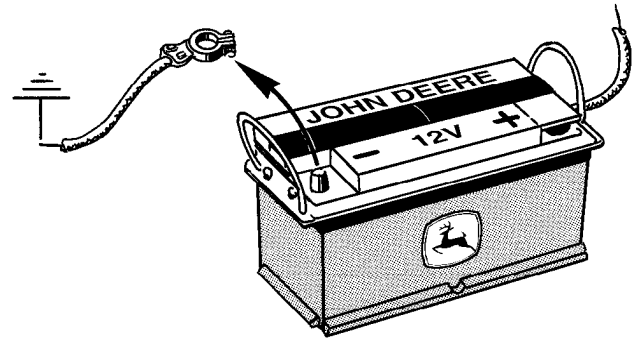
- A—Cap screws
- B—Washer

E21705 -UN-15SEP88

OUCC006.000070D -19-10JUL02-1/1

Round Baler Electrical Circuit and Control Power Supply Requirement

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



CC1020363

CC1020363 -JUN-23AUG01

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

Installing Battery Wiring Harness for Connection of Control Monitor

The BaleTrak monitor as well as the ELC monitor must be connected to the tractor convenience outlet. Install special battery harness (B) with convenience outlet (A), if not equipped.

Proceed as follows:

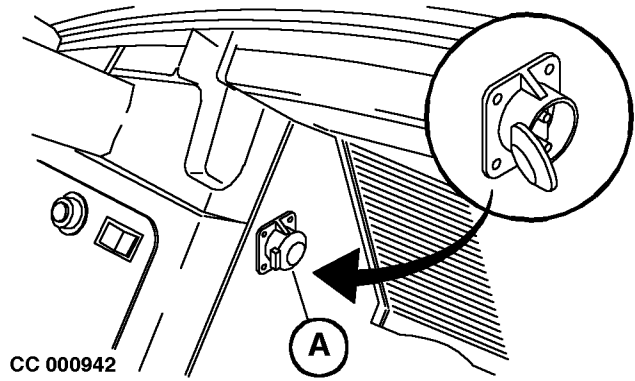
1. Drill a hole into the side wall of the tractor cab, at any convenient place, to install convenience outlet (A).
2. Connect the wires (C)-(D)-(E) to the outlet (A) as shown opposite.
3. Route wiring harness (B) through the cab up to the battery.
4. Clamp relevant pins (F)-(G)-(H) to the wires. Connect red wire (H) to the positive strap of the battery, red wire (F) to the "ON" position of the dashboard main switch and black wire (G) to the negative strap of the battery.

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

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

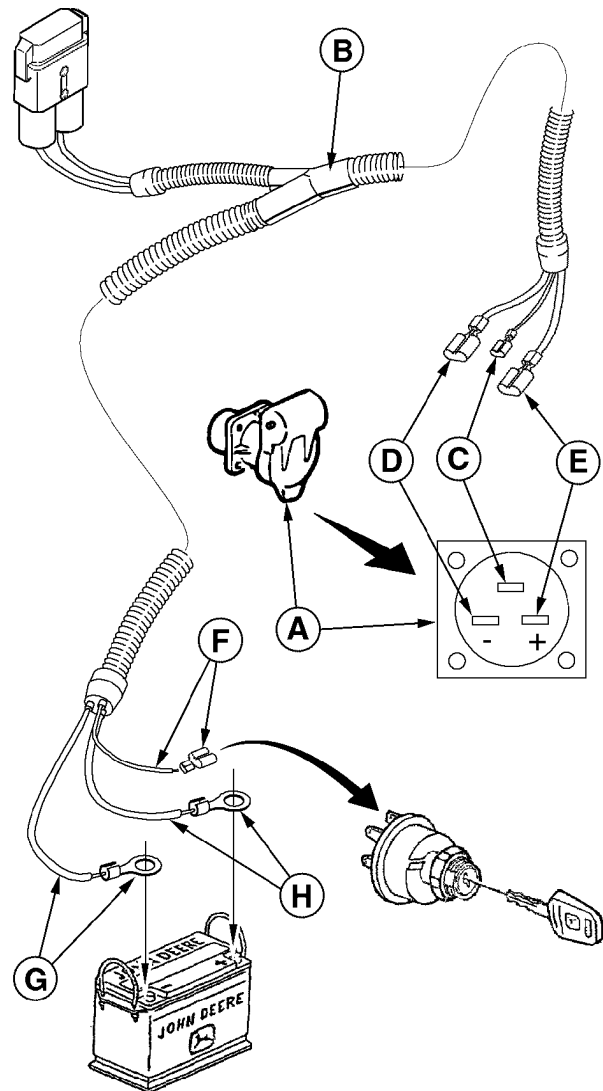
NOTE: Disconnect battery harness and BaleTrak wiring harness connector when welding on machine.

- A—Convenience outlet
- B—Battery harness
- C—Red (1.5 mm²)
- D—Black (6.0 mm²)
- E—Red (6.0 mm²)
- F—Red (Positive) wire (1.5 mm²)
- G—Black (Negative) wire (6.0 mm²)
- H—Red (Positive) wire (6.0 mm²)



CC 000942

CC000942 -UN-05APR95



CC1018542

CC1018542 -UN-23OCT00

OUC006,0001261 -19-17JAN07-1/1

Installing ELS Monitor on the Tractor

Install ELS monitor box at any convenient place near the operator's seat.

Connect the positive wire (RED) of the ELS monitor to the positive strap of the tractor battery.

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

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

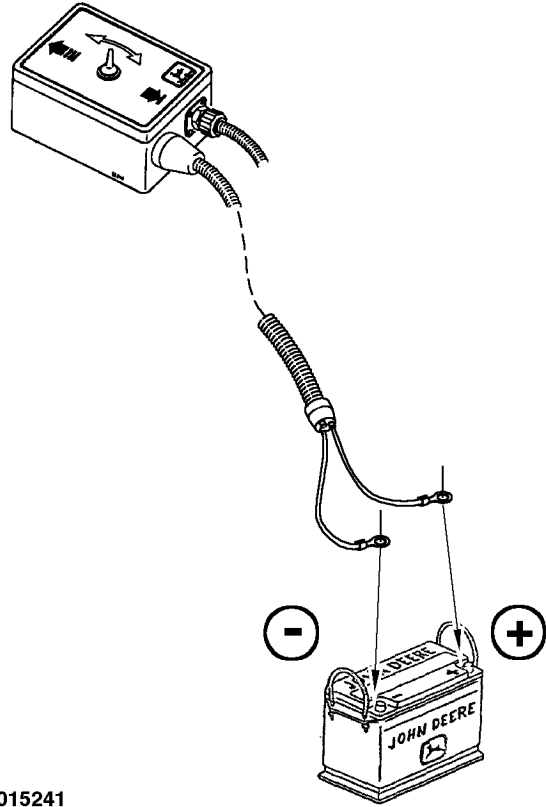
IMPORTANT: Over voltage should not be higher than 19 V.

Do not connect the ELS monitor to the starter motor solenoid.

Always check battery voltage and connections by actuating the actuators before operating the baler.

ELS monitor is reverse voltage protected.

CC015241



CC015241 -JUN-11FEB99

OUCC006,0000F27 -19-22JUL05-1/1

Installing ELC Monitor on the Tractor

Install ELC monitor on the provided support.

Connect the positive wire (RED) of the ELC monitor to the positive strap of the tractor battery.

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

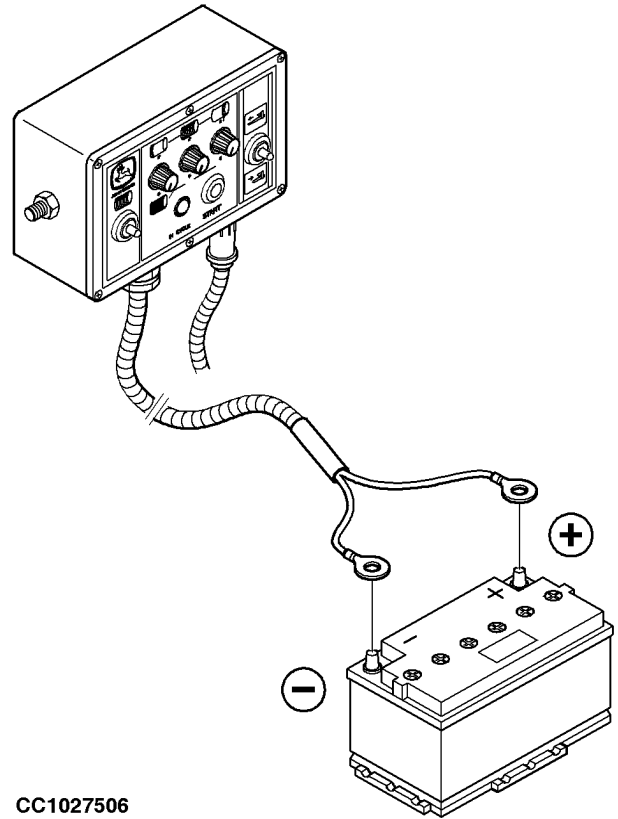
The power supply must be 12 Volt, 30 A with fully charged battery. A minimum of 20 A is required during electrical cylinder retract cycle.

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

Under voltage should not be below 9 V 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 ELC monitor test with the battery connected to a battery charger.

ELC monitor is reverse voltage protected.



CC1027506

CC1027506 -UN-12JUL05

OUC006,0000F28 -19-22JUL05-1/1

Installing ELC Plus Monitor on the Tractor

Install ELC Plus monitor on the provided support.

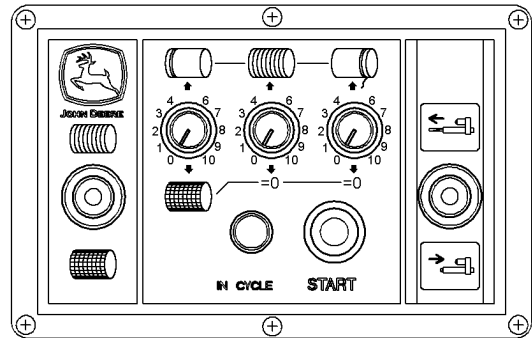
The power supply must be 12 Volt, 30 A with fully charged battery. A minimum of 20 A is required during electrical cylinder retract cycle.

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

Under voltage should not be below 9 V 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 ELC Plus monitor test with the battery connected to a battery charger.

ELC Plus monitor is reverse voltage protected.



CC1027522

CC1027522 -UN-21JUL05

OUC006,0000F29 -19-22JUL05-1/1

Installing BaleTrak Monitor on the Tractor

Install BaleTrak control monitor on the provided support.

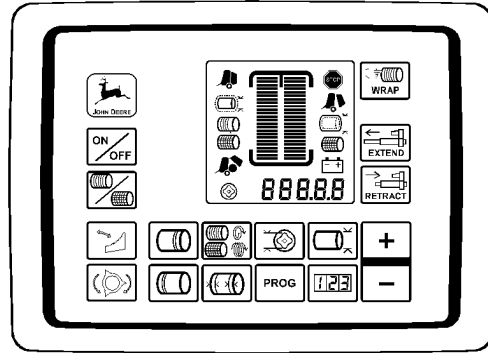
The power supply must be 12 Volt, 30 A with fully charged battery. A minimum of 20 A is required during electrical cylinder retract cycle.

IMPORTANT: Over voltage should not be higher than 16 V.

Under voltage should not be below 11.2 V as under this value the BaleTrak control will not work correctly and a diagnostic trouble code will be displayed. 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 BaleTrak test with the battery connected to a battery charger.

The BaleTrak control monitor is reverse voltage protected.



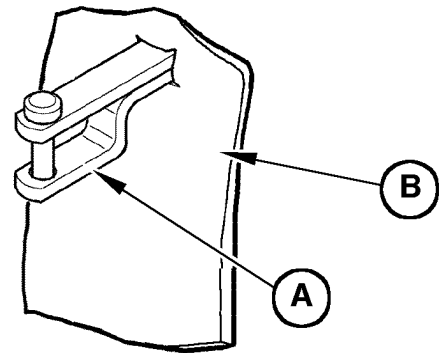
CC1019095

CC1019095 -JUN-05FEB01

OUC006.0000F2A -19-22JUL05-1/1

Using Drawbar Shield

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



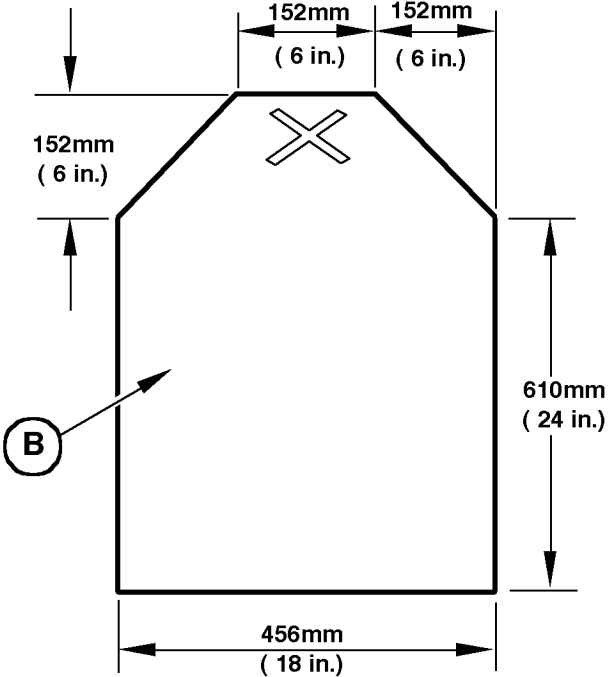
CC007918

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

CC007918 -JUN-12DEC96

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



CC007919

CC007919 -UN-25NOV/96

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

Preparing the Baler

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.

Shear bolt clutch:

Press locking device.

Slide telescoping hook-up onto gear case input shaft until lock engages.

Cam-type cut out clutch:

Unscrew the clamping cone.

Engage telescoping hook-up to the gear case input shaft, until the hole is positioned over the gear case input shaft annular groove.

Tighten the clamping cone to specified torque.

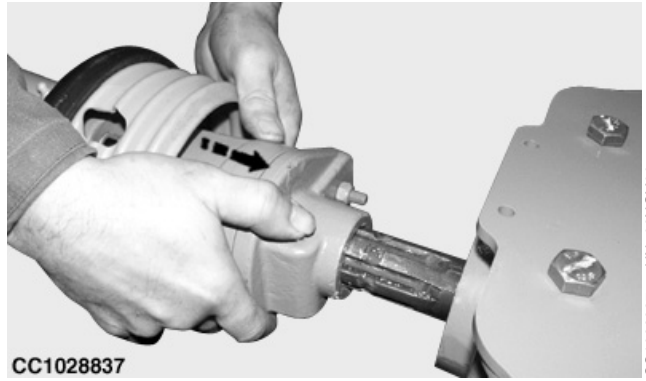
Specification

Clamping Cone—Torque..... 100 N•m
(74 lb-ft)

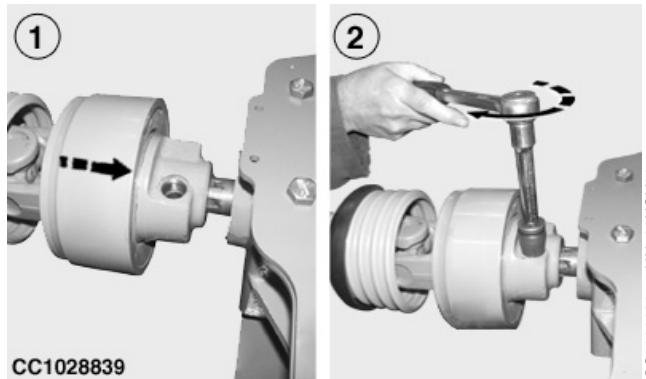
CAUTION: Before starting work, make sure all locks are securely engaged and safety chains are attached (if equipped).

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

Immediately replace any damaged plastic hook-up shields.



Shear bolt clutch



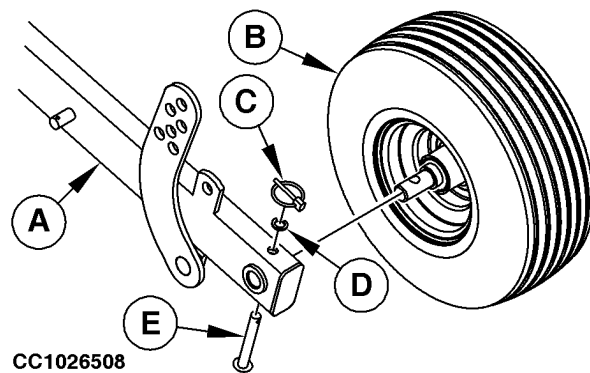
Cam-type cut out clutch

Installing Pickup Gauge Wheels

On each side:

Install wheel assembly (B) on arm (A) using pin (E), washer (D) and quick lock pin (C).

- A—Gauge wheel arm
- B—Wheel assembly
- C—Quick lock pin
- D—Washer
- E—Fastener pin



CC1026508 -UN-04OCT04

OUC006.000111D -19-11JAN07-1/1

Selecting Twine

John Deere twine is recommended to achieve optimum performance.

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.



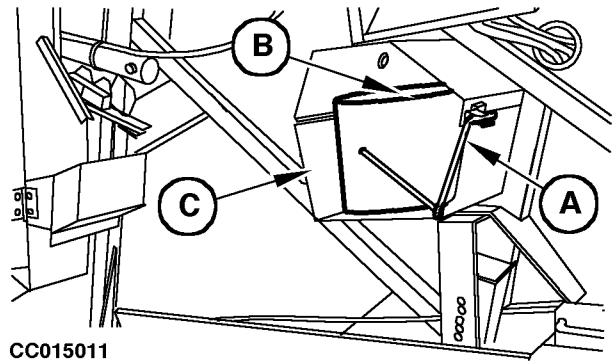
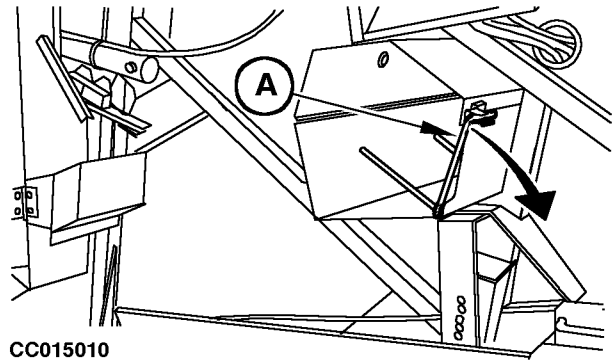
CC1027482 -UN-12JUL05

OUC006.0000EFF -19-19JUL05-1/1

Loading Front Twine Box (Baler Without Side Twine Box)

1. Open right-hand door.
2. 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".
3. Raise ball separator lever (A) so that balls are well maintained in position.

A—Lever
B—Twine ball
C—Twine box compartment

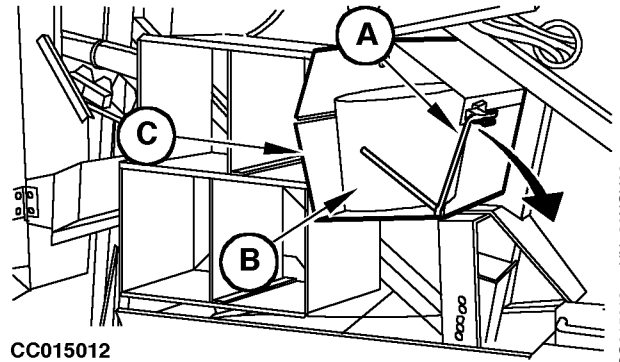


CC03745.0000233 -19-05JUL01-1/1

Loading Twine Boxes (Baler With Side Twine Box)

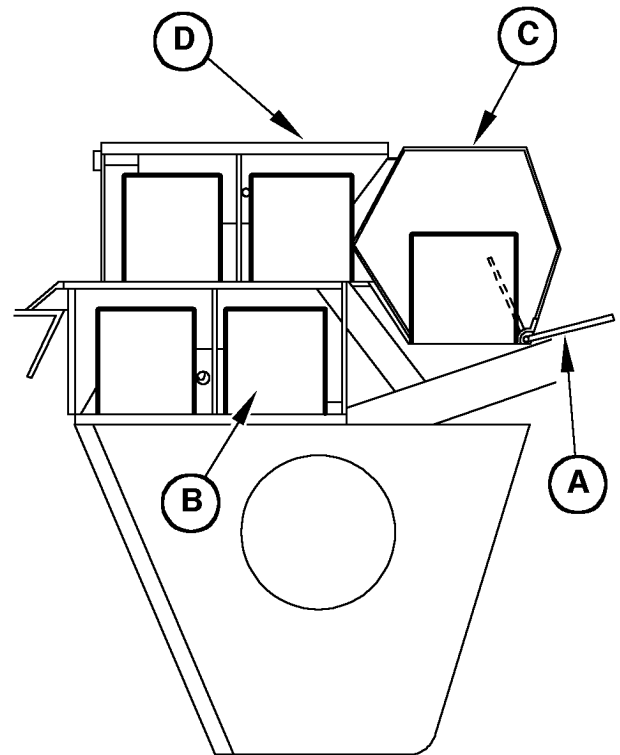
1. Open right-hand door.
2. Lower ball separator lever (A).
3. Insert six balls (B) of good quality twine in front twine box compartment (C). Be sure twine is pulled from end of the ball marked "top".
4. Raise ball separator lever (A) so that balls are well maintained in position.
5. Depending on side twine box capacity, insert two or 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—Lever
- B—Twine ball
- C—Front twine box compartment
- D—Side twine box



CC015012

CC015012 -UN-30NOV98



CC009756

CC009756 -UN-17FEB97

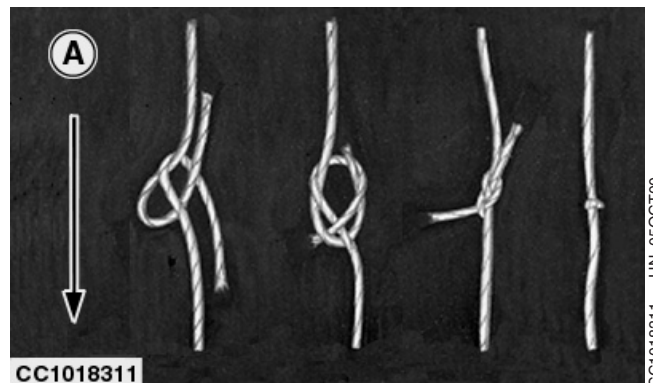
CC03745,0000234 -19-05JUL01-1/1

Tying Sheet Bend Knot (Plastic Twine)

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

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

- A—Flow direction of twine



CC1018311

CC1018311 -UN-05OCT00

CC03745,000027A -19-07AUG01-1/1

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.



E7986 -UN-12SEP00

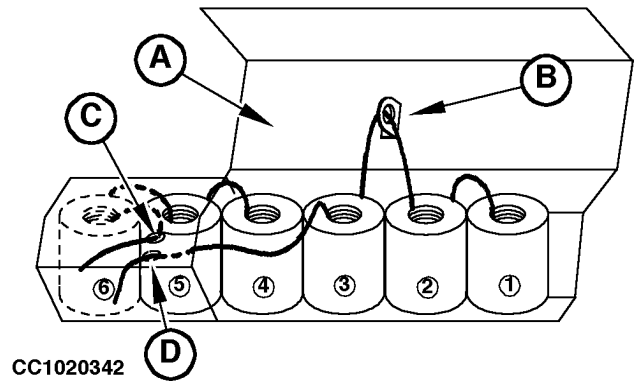
CC03745,0000232 -19-05JUL01-1/1

Routing Twine out of Twine Box for Double Twine Tying (Baler without Side Twine Box)

1. 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.

2. Pull inside twine end of the third ball through opening (D).
3. Pull inside twine end of second ball through guide (B) and join it to the outside twine end of the third ball.
4. Join the inside twine end of the first ball to the outside twine end of the second ball.
5. Pull inside twine end of the sixth ball through opening (C).
6. Join the outside twine end of the sixth ball to the inside end of the following ball, and so on up to the fourth ball.
7. Close twine box cover (A) and right-hand door.



CC1020342

- A—Cover
- B—Guide
- C—Opening
- D—Opening

CC1020342 -UN-24AUG01

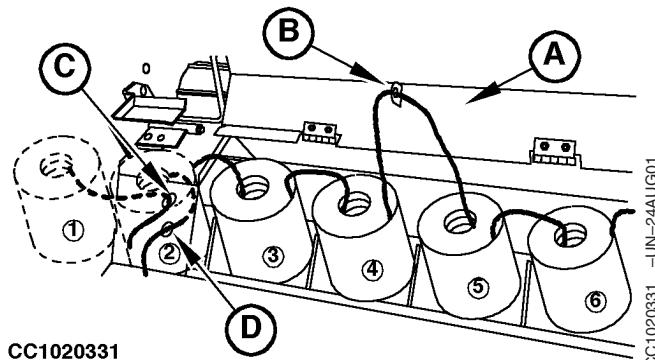
CC03745,0000235 -19-05JUL01-1/1

Routing Twine out of Twine Boxes for Double Twine Tying (Baler with 4 Balls Side Twine Box)

1. 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.

2. Pull inside twine end of the second ball of the front twine box through opening (D).
3. Join the outside twine end of the second ball to the inside twine end of the third ball.
4. Join the outside twine end of the third ball to the inside twine end of the fourth ball.
5. Pull inside twine end of the fifth ball through guide (B) and join it to the outside twine end of the fourth ball.
6. Join outside twine end of the fifth ball to the inside twine end of the last ball.
7. Pull inside twine end of the first ball of the front twine box through opening (C).



CC1020331

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

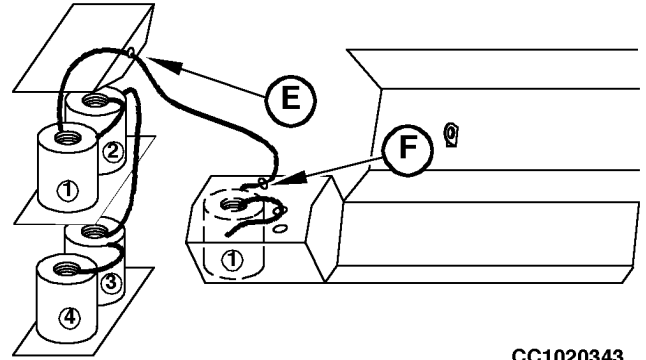
CC1020331 -JUN-24AUG01

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CC03745.000027B -19-08AUG01-1/2

Preparing the Baler

8. Pull inside twine of the first side twine box ball through opening (E) and (F) and join it to the outside twine end of the first front twine box ball.
9. 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.
10. 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.
11. 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.
12. Close twine box cover (A) and right-hand door.



E—Opening
F—Opening

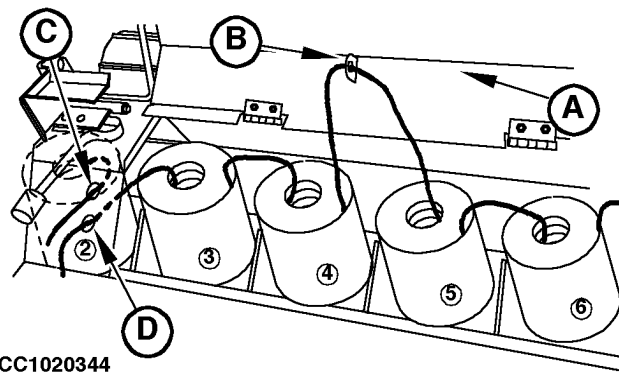
CC03745,000027B -19-08AUG01-2/2

Routing Twine out of Twine Boxes for Double Twine Tying (Baler with 2 Balls Side Twine Box)

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

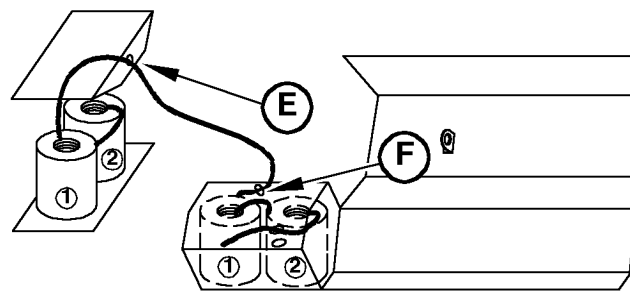
NOTE: In joining twine, use a modified square knot with sisal twine and a sheet bend knot with plastic twine. Trim loose ends of twine as close to knot as possible.

2. Pull inside twine end of the second ball of the front twine box through opening (C).
3. Join the outside twine end of the second ball to the inside twine end of the first ball.
4. Pull inside twine of the first side twine box ball through hole (E) and (F) and join it to the outside twine end of the first front twine box ball.
5. 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.
6. Pull inside twine end of the third ball of the front twine box through opening (D).
7. Join the outside twine end of the third ball to the inside twine end of the fourth ball.
8. Pull inside twine end of the fifth ball through guide (B) and join it to the outside twine end of the fourth ball.
9. Join outside twine end of the fifth ball to the inside twine end of the last ball.
10. Close twine box cover (A) and right-hand door.



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CC1020332

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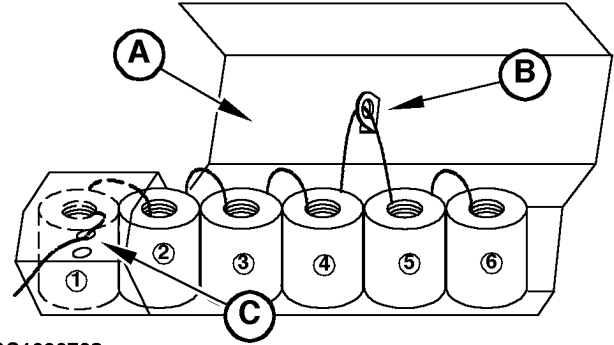
- A—Cover
- B—Guide
- C—Opening
- D—Opening
- E—Hole
- F—Hole

Routing Twine out of Twine Box for Single Twine Tying (Baler without Side Twine Box)

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

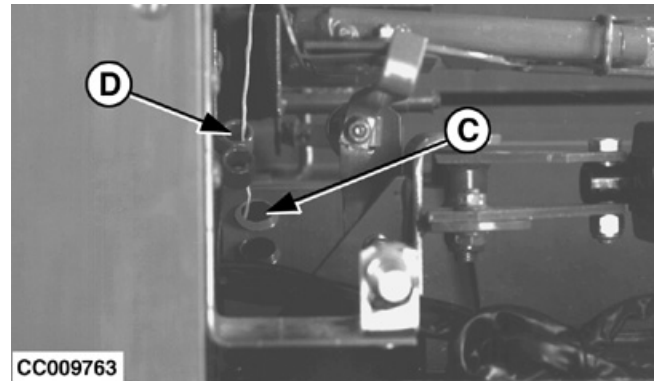
NOTE: In joining twine, use a modified square knot with sisal twine and a sheet bend knot with plastic twine. Trim loose ends of twine as close to knot as possible.

2. Pull inside twine end of the first ball of the front twine box through opening (C) and guide (D).
3. Join the outside twine end of the first ball to the inside twine end of the second ball, repeat this process up to the fourth ball.
4. Pull inside twine end of the fifth ball through guide (B) and join it to the outside twine end of the fourth ball.
5. Join the outside twine end of the fifth ball to the inside twine end of the last ball.
6. Close twine box cover (A) and right-hand door.



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CC1020738 -UN-09NOV01



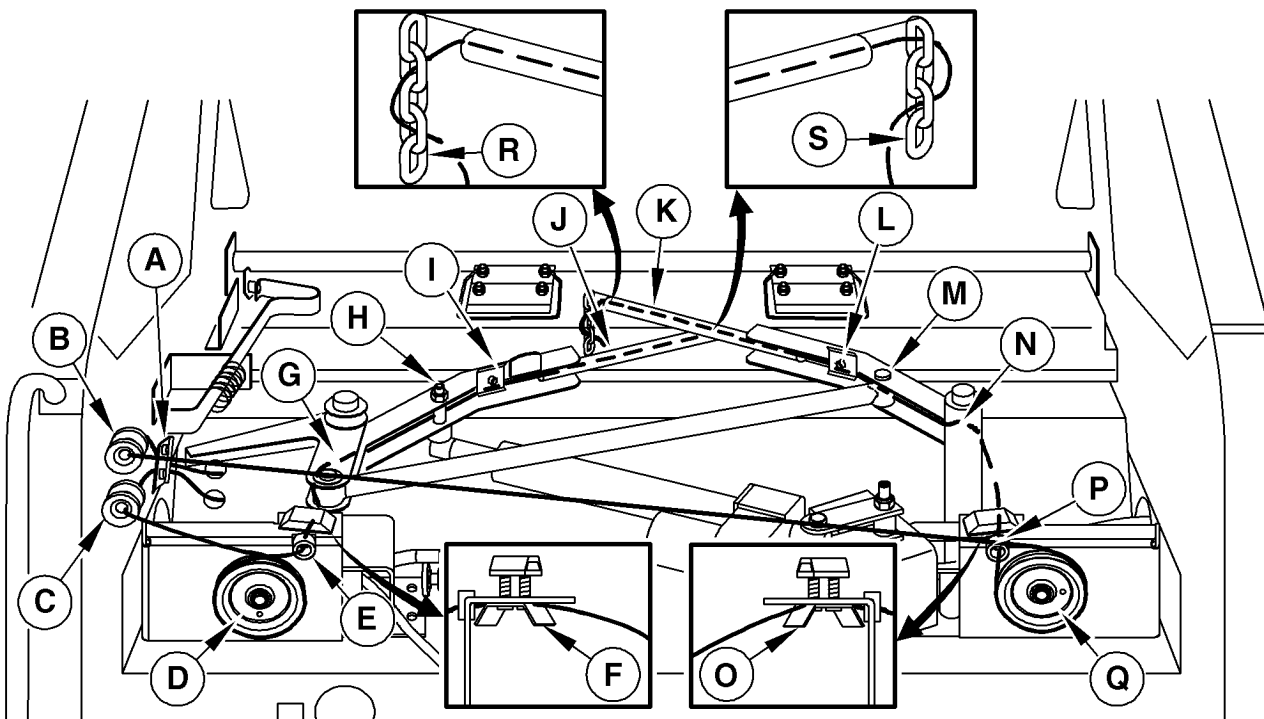
CC009763

CC009763 -UN-17FEB97

- A—Cover
- B—Guide
- C—Opening
- D—Guide

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Routing Twine from Twine Box to Twine Arms (Double Arm Double Twine Tying)



CC1023395

CC1023395 -UN-30SEP03

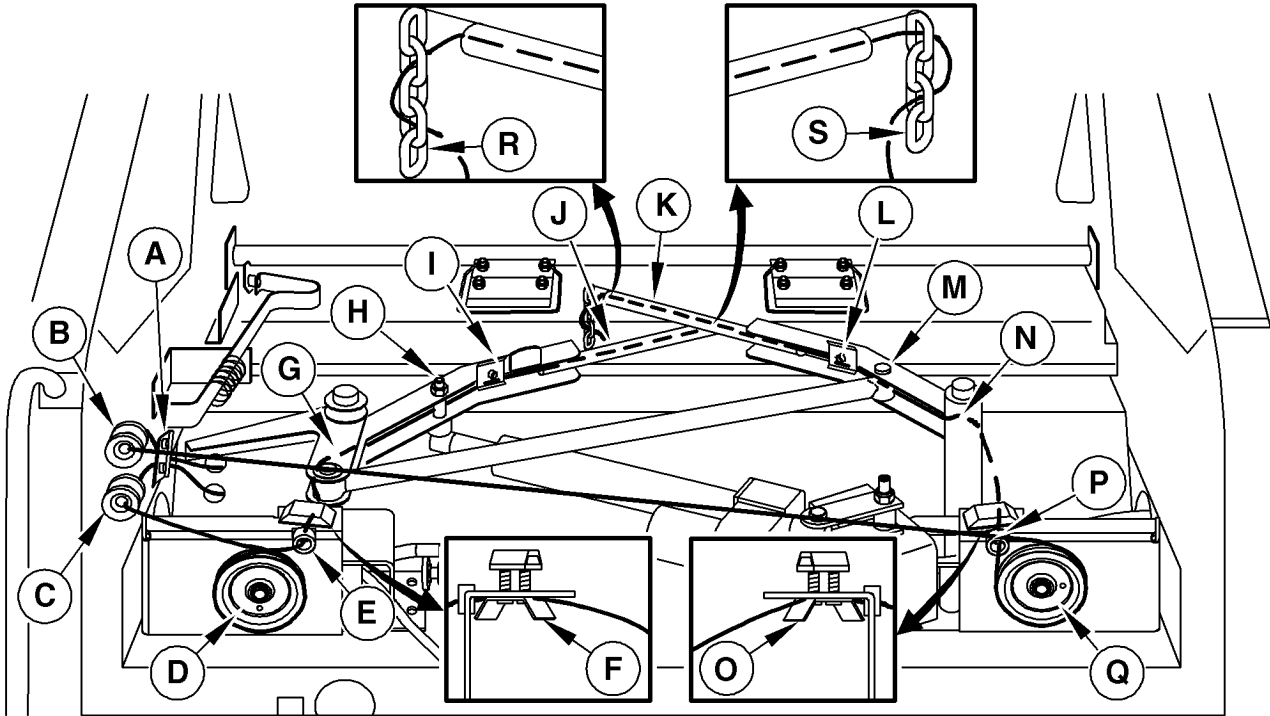
A—Twine tension plate	F—Twine tension plate	K—Twine arm tube	P—Twine guide
B—Twine guide	G—Twine guide	L—Tension plate	Q—Pulley
C—Twine guide	H—Bolt	M—Pin	R—Chain
D—Pulley	I—Tension plate	N—Twine guide	S—Chain
E—Twine guide	J—Twine arm tube	O—Tension plate	

⚠ CAUTION: Keep clear of the machine while operating twine arm actuator.

1. Slightly extend twine arms.
2. Switch off monitor.
3. Route both twines behind twine tension plate (A).
4. **Routing right-hand twine:**
 - a. Route one twine through twine guide (C).
 - b. Loop it around pulley (D).
 - c. Thread it through twine guide (E) and above twine tension plate (F).
 - d. Thread it through twine guide (G) in right twine arm.
 - e. Pull it behind bolt (H).
 - f. Place it behind tension plate (I).
 - g. Thread it through twine arm tube (J), there must be 300 mm (12 in.) of twine exposed from end of twine arm.
 - h. Thread it through first link and through second last link of chain (S) as shown.

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OUC006.00009F7 -19-18SEP03-1/2



CC1023395

CC1023395 -UN-30SEP03

- | | | | |
|-----------------------|-----------------------|------------------|---------------|
| A—Twine tension plate | F—Twine tension plate | K—Twine arm tube | P—Twine guide |
| B—Twine guide | G—Twine guide | L—Tension plate | Q—Pulley |
| C—Twine guide | H—Bolt | M—Pin | R—Chain |
| D—Pulley | I—Tension plate | N—Twine guide | S—Chain |
| E—Twine guide | J—Twine arm tube | O—Tension plate | |

5. Routing left-hand twine:

- a. Route one twine through twine guide (B).
- b. Loop it around pulley (Q).
- c. Thread it through twine guide (P) and above twine tension plate (O).
- d. Thread it through twine guide (N) in left twine arm.
- e. Pull it behind pin (M).
- f. Place it behind tension plate (L).
- g. Thread it through twine arm tube (K), there must be 300 mm (12 in.) of twine exposed from end of twine arm.
- h. Thread it through second link and through second last link of chain (R) as shown.

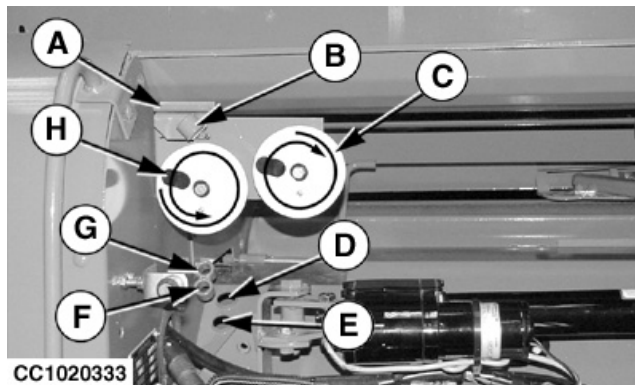
6. Close trash screen.
7. Retract twine arms.

OUCC006,00009F7 -19-18SEP03-2/2

Routing Twine from Twine Box to Twine Arm (Single Arm Double Twine Tying)

1. Route twine from opening (D) through twine guide (G), below twine tension plate (A) and make a loop counterclockwise around pulley (H).
2. Route twine from opening (E) through twine guide (F), below twine tension plate (A), through twine guide (B) and make a loop clockwise around pulley (C).

- A—Tension plate
- B—Twine guide
- C—Pulley
- D—Opening
- E—Opening
- F—Twine guide
- G—Twine guide
- H—Pulley



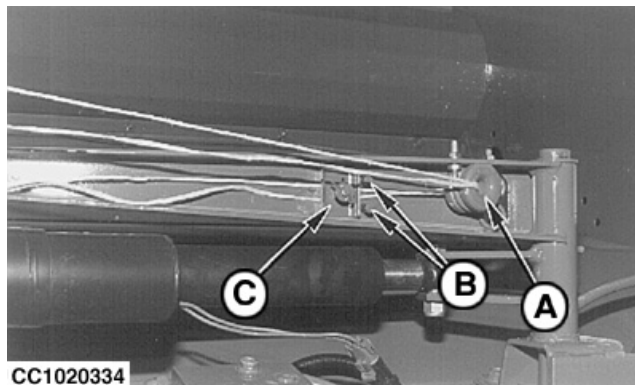
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CC03745,0000238 -19-05JUL01-1/3

3. Route both twines through eye (A).
4. Route twines between guiding pins (B) and place them behind tension plate (C).

- A—Eye
- B—Guiding pins
- C—Tension plate



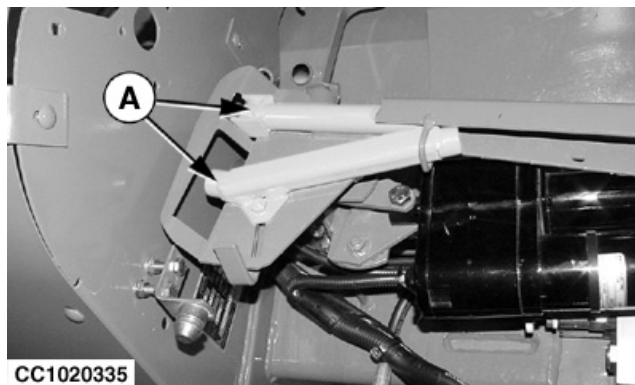
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CC03745,0000238 -19-05JUL01-2/3

5. Thread twines through twine arm tubes (A).
There must be 300 mm (12 in.) of twine exposed from end of twine arm.
6. Close trash screen.

- A—Twine arm tubes



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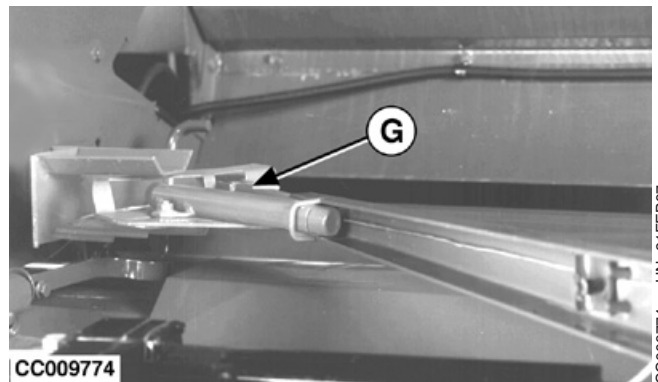
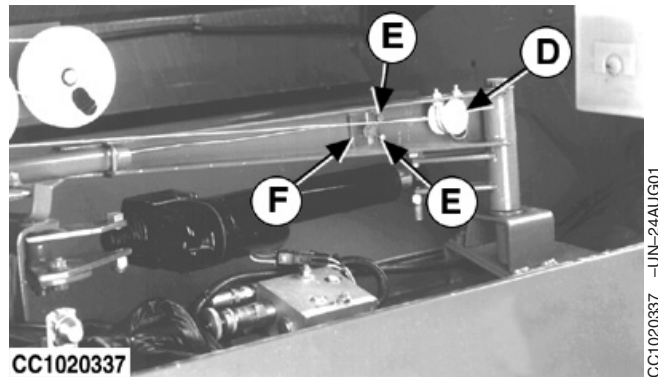
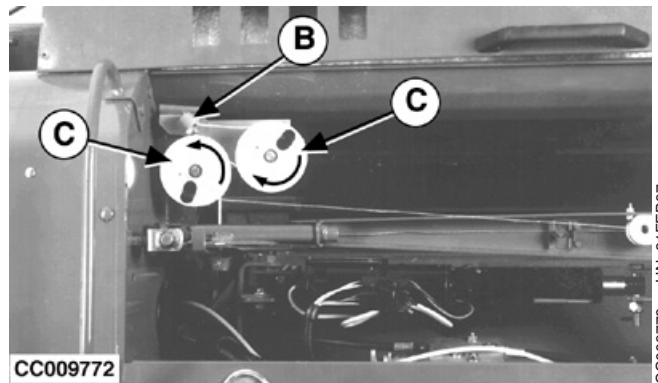
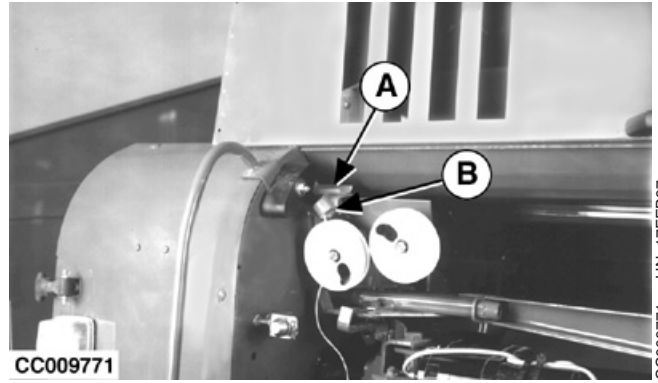
CC1020335 -UN-24AUG01

CC03745,0000238 -19-05JUL01-3/3

Routing Twine from Twine Box to Twine Arm (Single Arm Single Twine Tying)

1. Route twine below twine tension plate (A).
2. Route twine through twine guide (B).
3. Loop twine around pulleys (C) as shown.
4. Route twine through eye (D).
5. Route twine between guide pins (E) and place twine behind tension plate (F) as shown.
6. Thread twine through twine arm tube (G). There must be 300 mm (12 in.) of twine exposed from end of twine arm.
7. Close trash screen.

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



Selecting Net Roll

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

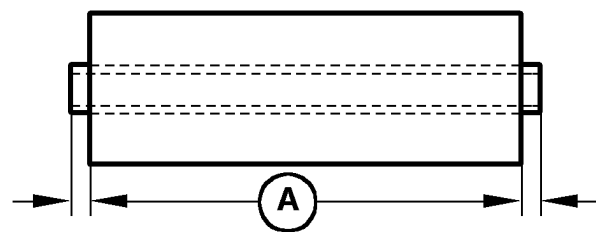
- Material: High density polyethylene.
- Density: Minimum $10 \text{ g/m}^2 \pm 10\%$ (0.033 oz/sq.ft. $\pm 10\%$).
- Strength (Tying direction): 900 N/500 mm (662 lb/20 in.).
- Elongation: $9\% \pm 1\%$.
- Length: 2000 or 3150 m (6 ft 6.7 in. or 10 ft 4 in.).
- Material width for standard net tying device: 1222 +16 -11 mm (3 ft 11.7 in. to 4 ft 0.7 in.).
- Material width for CoverEdge net tying device: 1300 mm (4 ft 3.2 in.).
- Core width for standard net tying device: Maximum 1255 mm (4 ft 1.4 in.).
- Core width for CoverEdge net tying device: Maximum 1320 mm (4 ft 4 in.).
- 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.

- For baler with standard net tying device, net roll diameter must not exceed 32 cm (1 ft 0.6 in.).
- For baler with CoverEdge net tying device, net roll diameter must not exceed 30 cm (11.8 in.).



CC1027482 -UN-12JUL05



CC009708 -UN-26NOV96

CC009708

A—Material/Core offset

Care of Net Roll

IMPORTANT: Protect net roll material from moisture and damage. Do not remove protective covering until ready for use. Snags can cause erratic performance and affect bale weatherability. Do not use sticky tape directly on net.

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

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

Care of Net Tying 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.

Baler with standard net tying device

It is recommended to use:

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

Apply talcum powder to rubber feed roll.

Baler with CoverEdge net tying device

IMPORTANT: Never apply talcum on rubber roll.

It is recommended to use:

- Water
- Soap water

OUC006,00011E5 -19-16JAN07-1/1

Loading Net Roll (Baler with Standard Net Tying Device)



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

1. Load net roll in net box.

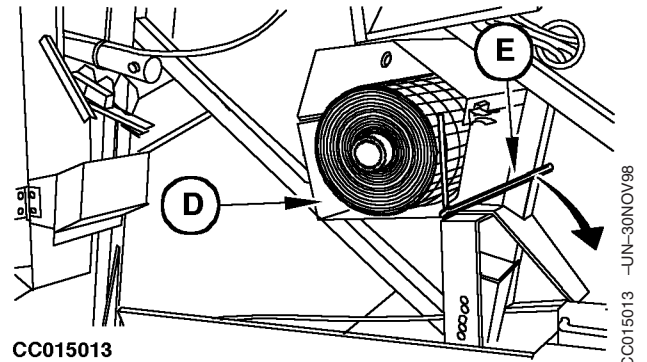
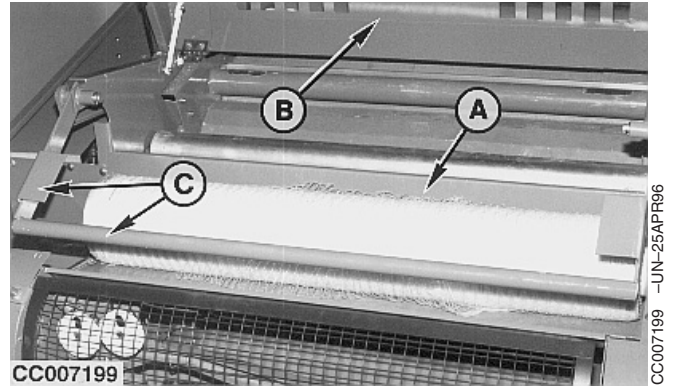
NOTE: Net box (A) can only take one net roll at a time for the net tying process.

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).

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) so material will be pulled from the back of the roll.



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

Continued on next page

OUC006,00010EA -19-22JAN07-1/4

2. Release net feed roll brake to allow feed rolls to rotate.

- a. With BaleTrak monitor or ELC Plus monitor with Net/Twine tying switch on wiring harness:

Extend the net actuator in middle position.

Turn off the monitor.

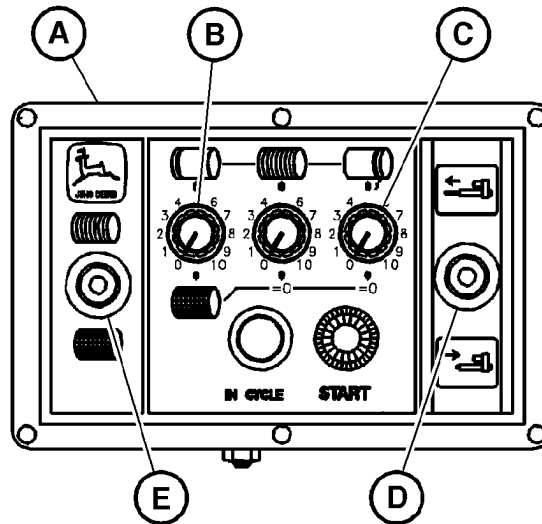
- b. With ELC Plus monitor with Net/Twine tying switch on monitor:

Move switch (E) in Net tying position.

Turn actuator positioning potentiometer (C) on 10 and press start button to place automatically the net actuator in middle position.

Move switch (E) to OFF position.

3. Check rotation of net feed rolls.



CC1021771

- A—ELC Plus Monitor
- B—Net tie density potentiometer
- C—Actuator positioning potentiometer
- D—Manual control switch
- E—Net/Twine tying switch

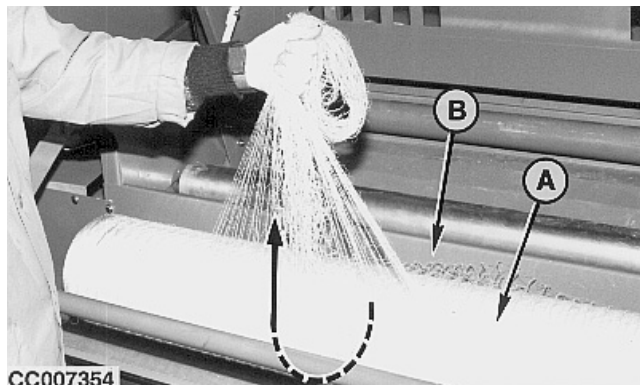
CC1021771 -UN-06AUG02

OUCC006,00010EA -19-22JAN07-2/4

4. Route net through feed rolls.

Unroll 60 cm (24 in.) of net and make a loop at the end of it.

- A—Net roll
- B—Net box



CC007354

CC007354 -UN-25APR96

Continued on next page

OUCC006,00010EA -19-22JAN07-3/4

Preparing the Baler

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

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

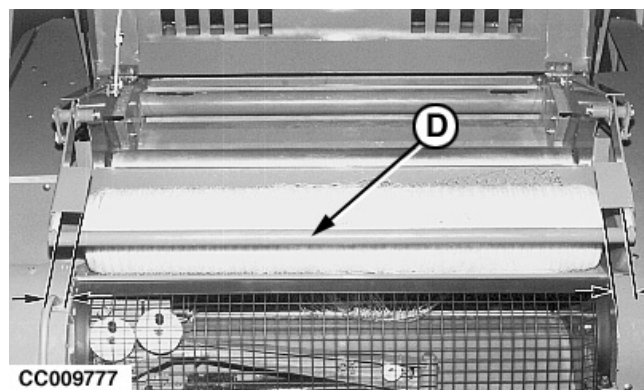
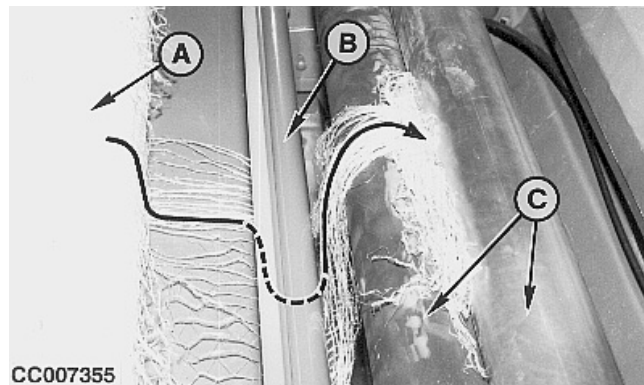
Close upper cover and right door of the baler.

Retract net actuator with monitor.

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

It is advisable to take net material off feed rolls at the end of each day! This will prevent net material from incrusting in rubber roll (C), thus avoiding start-up problems. Take net material off rubber roll each time baler is used in twine tying mode.

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



OUC006,00010EA -19-22JAN07-4/4

Loading Net Roll (Baler with CoverEdge™ Net Tying Device)

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

CAUTION: Cover (A) is spring loaded and will move up quickly when released.

1. Install net roll.

- a. Fully open right door.
- b. Open net tying cover (A). Place safety device (B) in lock position as shown.
- c. Remove all package material (staples, tape, etc.) from net roll before installing.
- d. For standard net roll only:

Remove stops (C) from their bracket and install them on each side of the net roll.

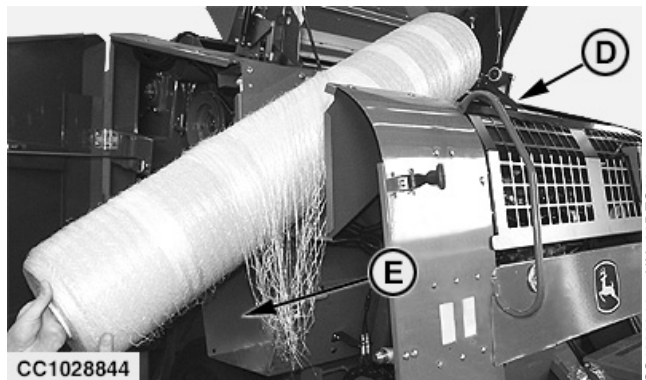
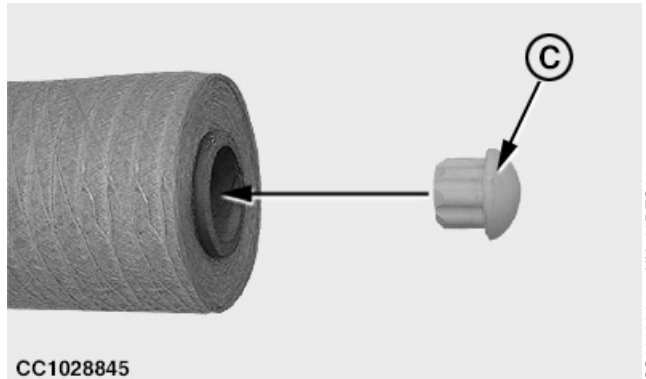
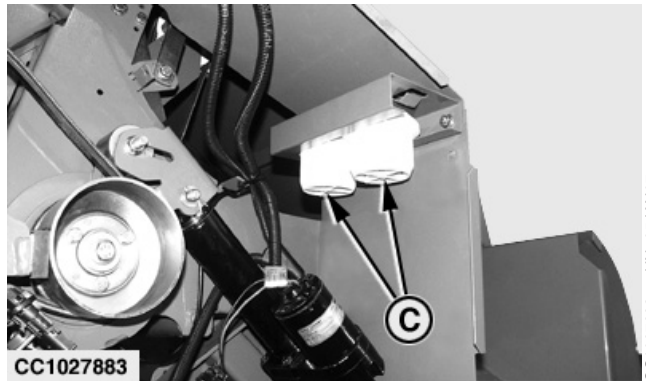
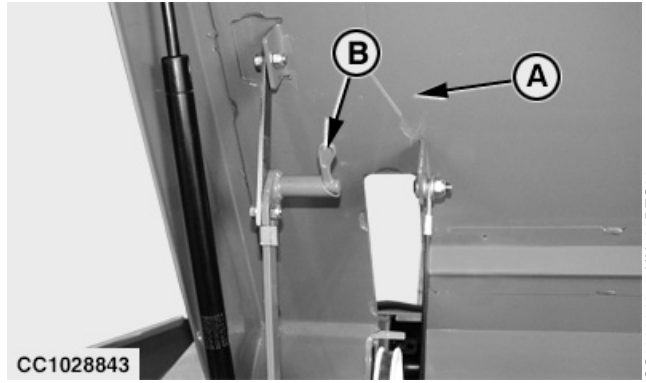
NOTE: CoverEdge™ net roll does not need stops (C).

- e. Slide net roll through the net compartment (D) as shown, making sure that net will be pulled from the bottom of the roll.

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

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

- A—Net tying cover
- B—Safety device
- C—Stops
- D—Net compartment
- E—Twine box compartment



2. Route net through feed rolls.

NOTE: Galvanized roll (A) is lifted all the way up when opening the net tying cover.

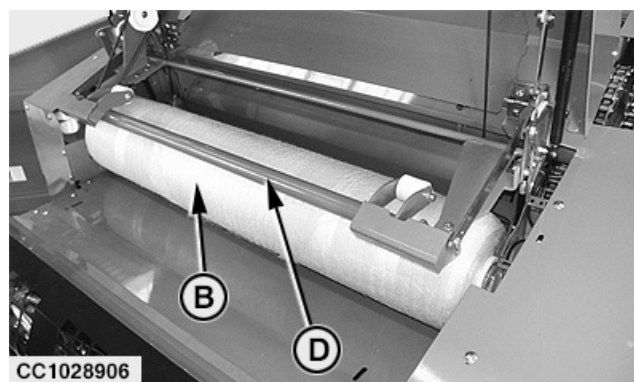
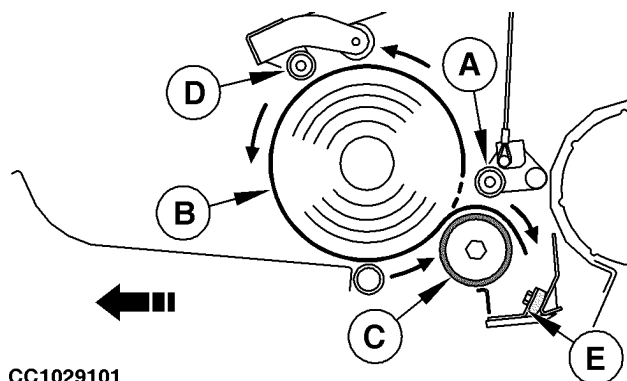
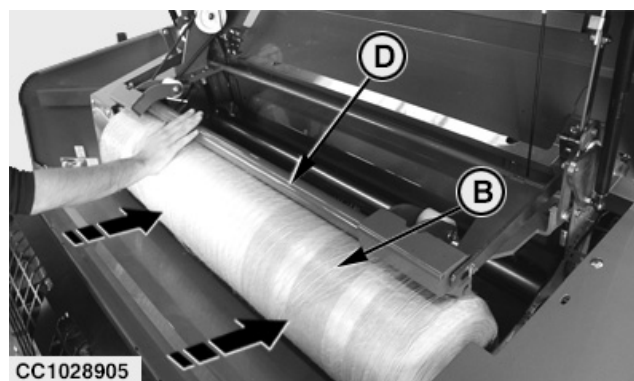
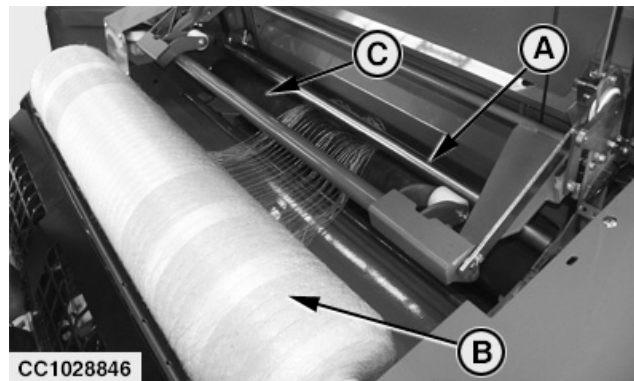
- a. Unroll net and gather the loose ends on a width of 30 to 40 cm (1 ft to 1 ft 4 in.).
- b. Route the net between rubber roll (C) and galvanized roll (A).

IMPORTANT: Do not thread more than 20 cm (8 in.) of net between galvanized roll (A) and rubber roll (C). Never position the net material on rubber pad bracket (E).

- c. Push net roll (B) under press roll (D) as shown, so that it touches rubber roll (C).
- d. Check that press roll (D) is correctly centered on net roll (B). Check again that net is correctly positioned between galvanized roll (A) and rubber roll (C).

IMPORTANT: It is advisable to take net material off feed rolls at the end of each day! This will prevent net material from incrusting in rubber roll (C), thus avoiding start-up problems. Take net material off rubber roll each time baler is used for twine tying mode.

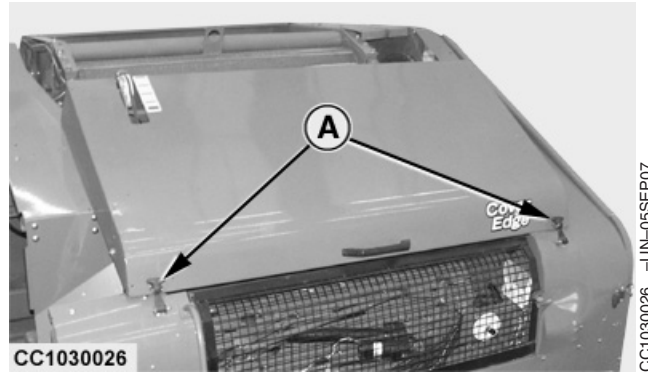
- A—Galvanized roll
- B—Net roll
- C—Rubber roll
- D—Press roll
- E—Rubber pad bracket



Preparing the Baler

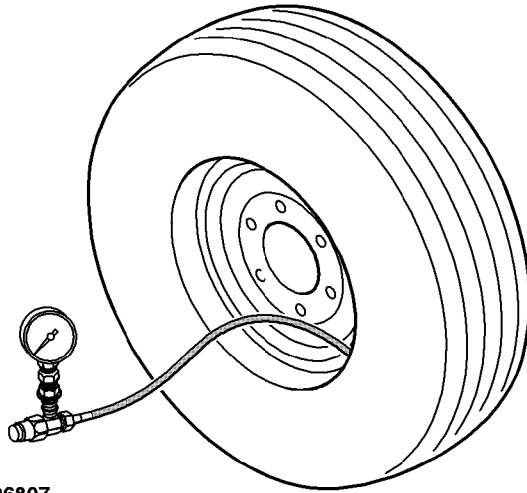
- e. Place the cover safety device in unlock position.
- f. Close right door and net tying cover.
- g. Place latches (A) in lock position as shown.

A—Latch



OUCC006,0001302 -19-03OCT07-3/3

Tire Inflation



CC1026807

CC1026807 -UN-26.JAN05

Tire type	Pressure	
	With maximum transport speed of 30 km/h (19 mph)	With maximum transport speed of 40 km/h (24 mph)
11.5/80 x 15.3 (10 PR)	200 kPa (2 bar; 29 psi)	a
15/55 - 17 (10 PR)	150 kPa (1.5 bar; 22 psi)	a
19/45 - 17 (10 PR) 500/50 - 17 (10 PR)	150 kPa (1.5 bar; 22 psi)	150 kPa (1.5 bar; 22 psi)
aNot homologated		

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

The maximum transport speed for this implement is :

- 25 km/h (15 mph) for implement without brakes or with hydraulic brakes
- 40 km/h (25 mph) for implement with pneumatic brakes

Maximum transport speed is determined by local road traffic regulations; always observe local traffic regulations when using public roads.

Attaching and Detaching

Adjusting Tongue to Tractor Drawbar

To meet all tractor drawbar hitch configurations, the tongue is adjustable.

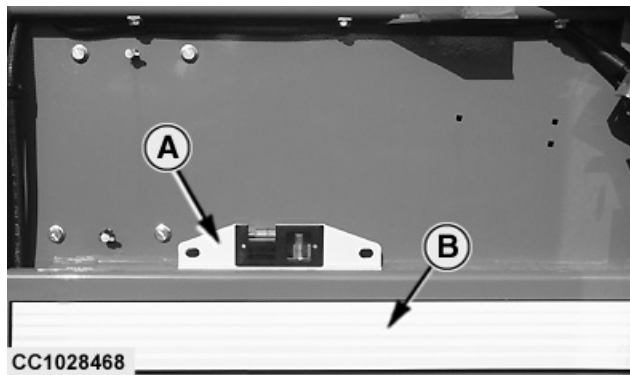
IMPORTANT: Before adjusting the tongue, be sure that:

- the tires inflation is correct.
- the gate is completely closed.

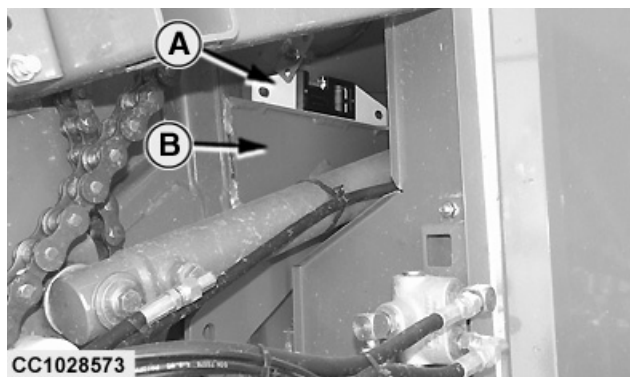
1. Park tractor and baler on a level ground.
2. Detach baler from tractor.
3. Install a spirit level (A) on gate reinforcement (B).
4. Adjust baler in horizontal position using the spirit level and the jackstand.
5. Measure distance (C).
6. Measure distance (D).
7. Calculate and record the value "H":

$$H = (D) - (E) - (C)$$

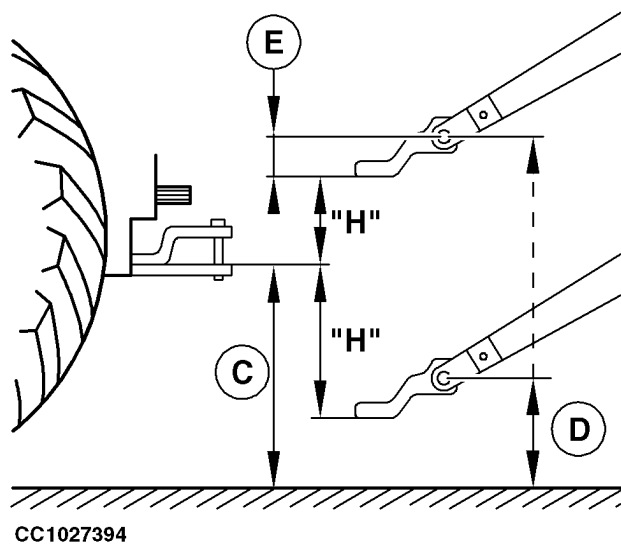
- A—Spirit level
 B—Gate reinforcement
 C—Drawbar height
 D—Hitch screw height
 E—Hitch height correction
 H—Distance



Except for MultiCrop Baler



MultiCrop Baler



Continued on next page

OUCC006,00010F5 -19-10JAN07-1/5

NOTE: (E) is the correction for the hitch height.

Select the value (E) according the hitch type:

Specification

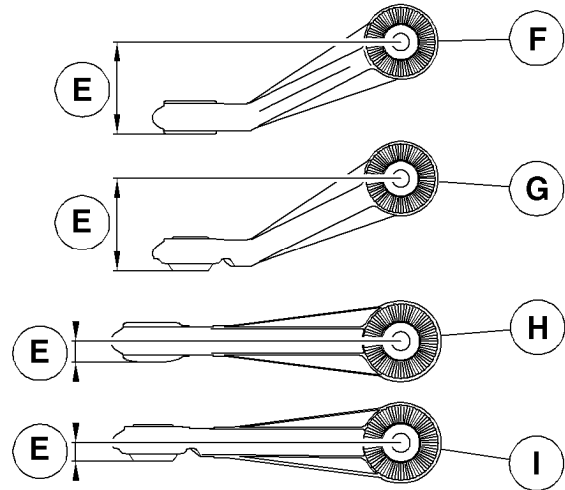
Hitch (F) Height Correction (E)— Height	122 mm (4.8 in.)
Hitch (G) Height Correction (E)— Height	122 mm (4.8 in.)
Hitch (H) Height Correction (E)— Height	26 mm (1 in.)
Hitch (I) Height Correction (E)— Height	22 mm (0.86 in.)

- If H = 80 mm (3.15 in.), go to step 19.
- If H > 80 mm (3.15 in.), continue.

8. Calculate and record the value "T":

$$T = H / 140 \text{ mm (5.5 in.)}$$

T is the number of tongue frame teeth to jump. T must be rounded to the closer unit.



CC1027393

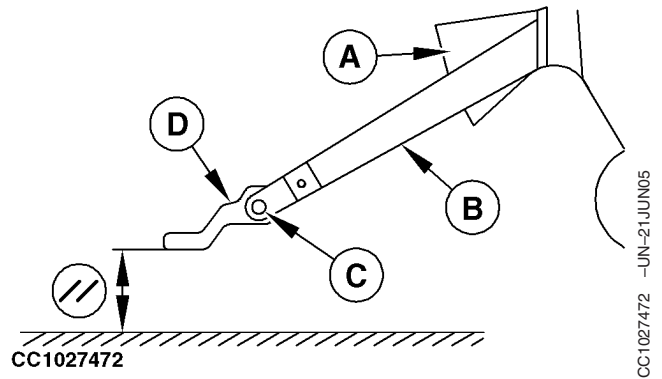
- E—Hitch height correction
- F—Angled hitch without ball joint
- G—Angled hitch with ball joint
- H—Straight hitch without ball joint
- I—Straight hitch with ball joint

CC1027393 -UN-21JUN05

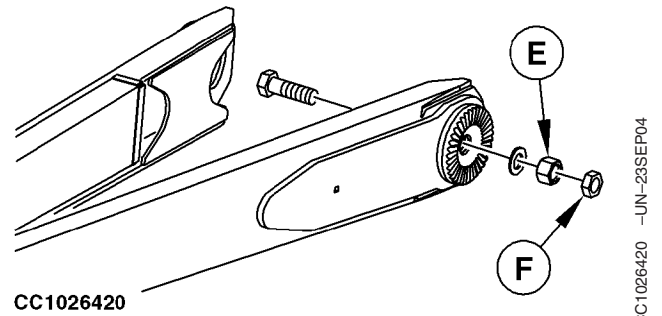
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OUCC006.00010F5 -19-10JAN07-2/5

9. Remove shield (A) screws.
10. Remove hitch (D).
11. Scribe a mark between the frame and each tongue frame.
12. Remove lock nut (F) of left tongue frame (B).
13. Loosen nut (E).
14. Raise or lower tongue frame by "T" teeth, using the mark as a start point.
15. Tighten nut (E).
16. Repeat step 12 to 15 to adjust the right-hand tongue frame.
17. Check that the two tongue frames are at the same level.
18. Install hitch (D).
19. Set hitch (D) as horizontal as possible with baler attached to the tractor.
20. Tighten tongue frame fixing nuts (F), lock nuts (E) and hitch fixing screw (C) to specified torque:



CC1027472 -JUN-21JUN05



CC1026420 -JUN-23SEP04

- A—Shield
- B—Tongue frame
- C—Hitch fixing screw
- D—Hitch
- E—Lock nut
- F—Nut

Specification

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

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OUCC006,00010F5 -19-10JAN07-3/5

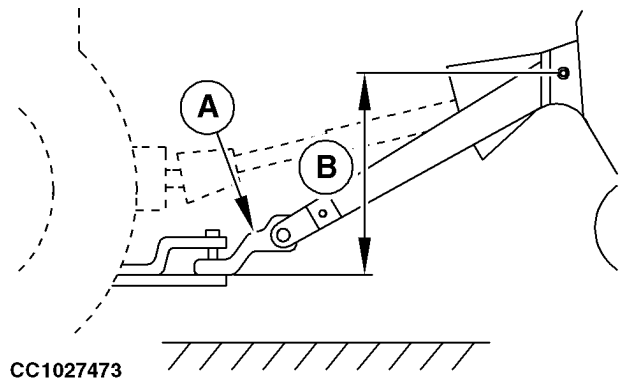
NOTE: Make sure that all rings are engaged (not standing tip to tip) when tightening screw (C) and nuts (E)-(F).

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 (B) and hook-up in short turns, as otherwise major damage on hook-up will occur.

OUCC006.00010F5 -19-10JAN07-4/5

IMPORTANT: Maximum allowed offset (B) between tongue base articulation and hitch (A) should meet specification.

Specification	
Hitch to Tongue Base Articulation (Baler without Brake)—Maximum offset.....	700 mm (2 ft 3.5 in.)
Hitch to Tongue Base Articulation (Baler with Brake)—Maximum offset.....	580 mm (1 ft 10.8 in.)



A—Hitch
B—Offset

21. Adjust bale discharging ramp. (See "Adjusting Bale Discharging Ramp" in "Operating the Baler- General Purposes" section.)

CC1027473 -JUN-21JUN05

OUCC006.00010F5 -19-10JAN07-5/5

Adjusting Tongue 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.

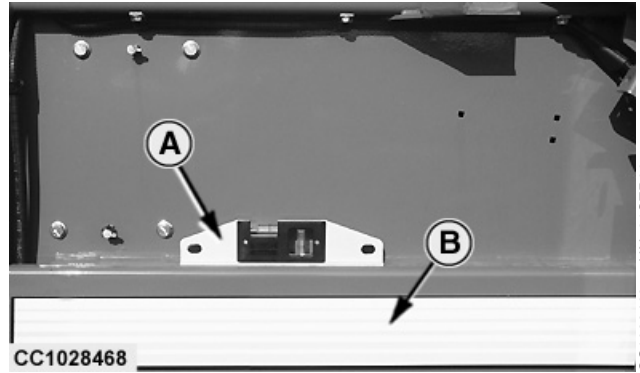
IMPORTANT: Before adjusting the tongue, be sure that:

- the tires inflation is correct.
- the gate is completely closed.

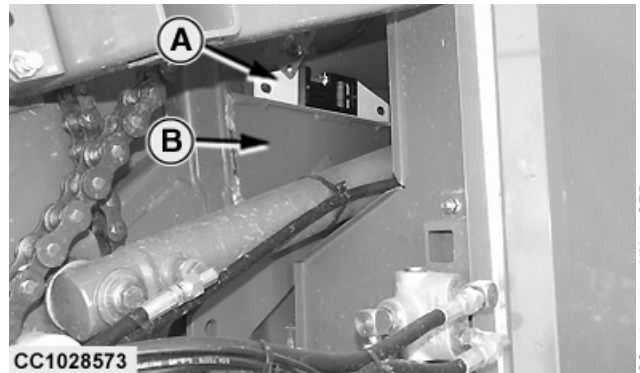
1. Park tractor and baler on a level ground.
2. Detach baler from tractor.
3. Install a spirit level (A) on gate reinforcement (B).
4. Adjust baler in horizontal position using the spirit level and the jackstand.
5. Measure distance (C).
6. Measure distance (D).
7. Calculate and record the value "H":

$$H = (D) - (E) - (C)$$

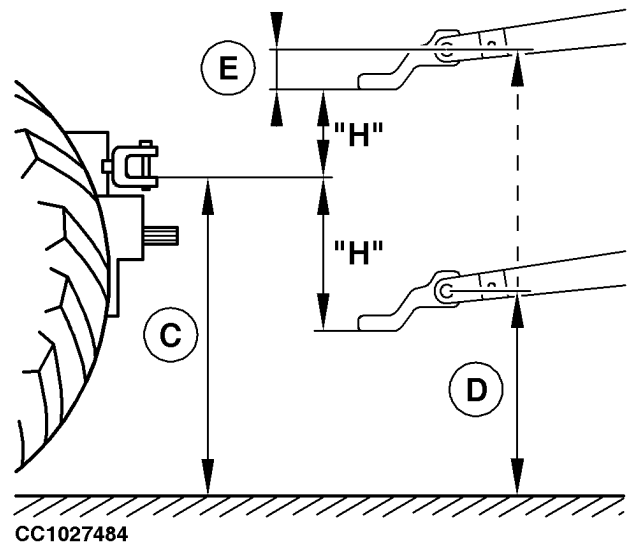
- A—Spirit level
 B—Gate reinforcement
 C—Trailer hitch height
 D—Hitch screw height
 E—Hitch height correction
 H—Distance



Except for MultiCrop Baler



MultiCrop Baler



Continued on next page

OUCC006,00010F6 -19-15DEC06-1/4

NOTE: (E) is the correction for the hitch height.

Select the value (E) according the hitch type:

Specification

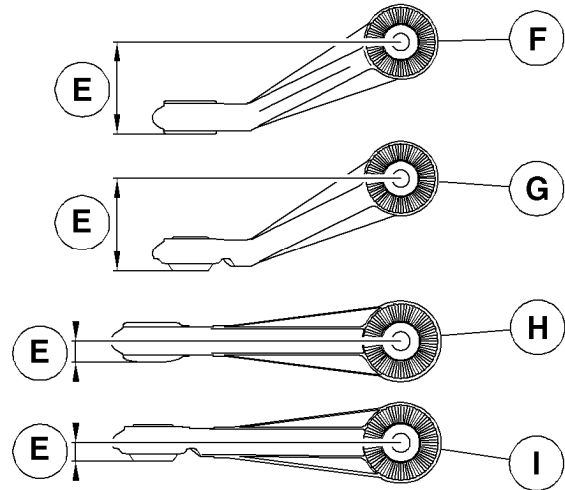
Hitch (F) Height Correction (E)— Height	122 mm (4.8 in.)
Hitch (G) Height Correction (E)— Height	122 mm (4.8 in.)
Hitch (H) Height Correction (E)— Height	26 mm (1 in.)
Hitch (I) Height Correction (E)— Height	22 mm (0.86 in.)

- If H = 80 mm (3.15 in.), go to step 19.
- If H > 80 mm (3.15 in.), continue.

8. Calculate and record the value "T":

$$T = H / 140 \text{ mm (5.5 in.)}$$

T is the number of tongue frame teeth to jump. T must be rounded to the closer unit.



CC1027393

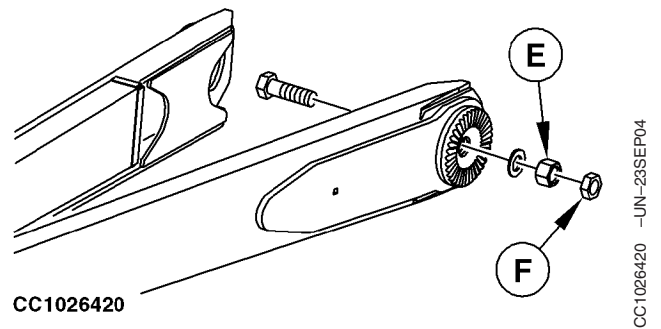
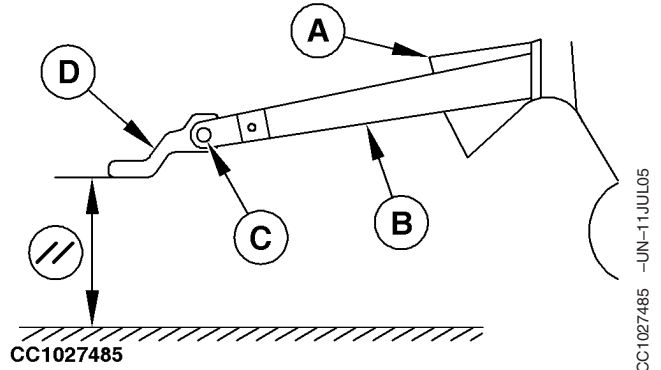
- E—Hitch height correction
- F—Angled hitch without ball joint
- G—Angled hitch with ball joint
- H—Straight hitch without ball joint
- I—Straight hitch with ball joint

CC1027393 -UN-21JUN05

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OUC006,00010F6 -19-15DEC06-2/4

9. Remove shield (A) screws.
10. Remove hitch (D).
11. Scribe a mark between the frame and each tongue frame.
12. Remove lock nut (F) of left tongue frame (B).
13. Loosen nut (E).
14. Raise or lower tongue frame by "T" teeth, using the mark as a start point.
15. Tighten nut (E).
16. Repeat step 12 to 15 to adjust the right-hand tongue frame.
17. Check that the two tongue frames are at the same level.
18. Install hitch (D).
19. Set hitch (D) as horizontal as possible with baler attached to the tractor.
20. Tighten tongue frame fixing nuts (F), lock nuts (E) and hitch fixing screw (C) to specified torque:



- A—Shield
- B—Tongue frame
- C—Hitch fixing screw
- D—Hitch
- E—Lock nut
- F—Nut

Specification

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

Continued on next page

OUCC006,00010F6 -19-15DEC06-3/4

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

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 (B) and hook-up in short turns, as otherwise major damage on hook-up will occur.

21. Adjust bale discharging ramp. (See "Adjusting Bale Discharging Ramp" in "Operating the Baler- General Purposes" section.)

OUCC006,00010F6 -19-15DEC06-4/4

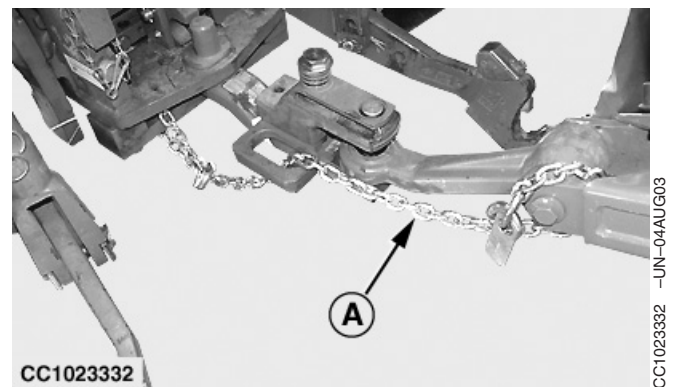
Connecting Safety Chain

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



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

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



A—Safety chain

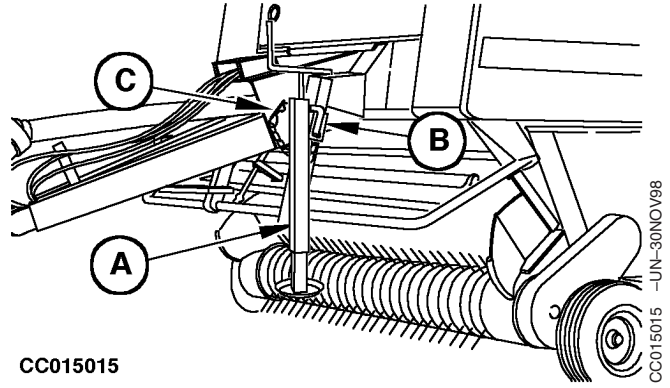
CC03745,0000C4D -19-02FEB07-1/1

Storing Jackstand (up to S.N. 58999 Baler without Brakes)

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

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

- A—Jackstand
- B—Pin
- C—Quick-lock pin



CC015015

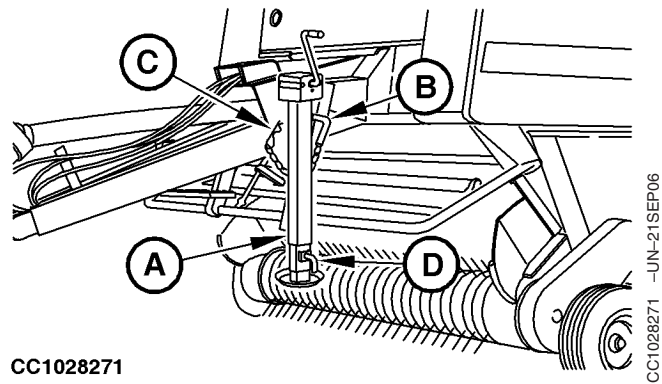
OUCC006,00010C1 -19-15DEC06-1/1

Storing Jackstand (up to S.N. 58999 Baler with Brakes)

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

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

- A—Jackstand
- B—Pin
- C—Quick-lock pin
- D—Pin



CC1028271

OUCC006,00010C5 -19-18OCT06-1/1

Storing Jackstand (from S.N. 60000)

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

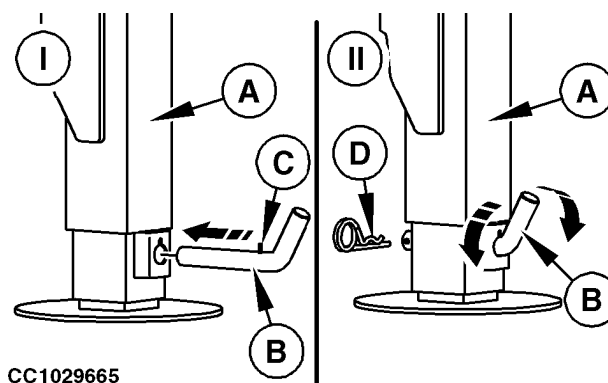
Secure jackstand (A) with pin (B) as follows:

1. Insert pin (B) as shown in drawing (I).
2. Turn pin (B) as shown in drawing (II) to secure jackstand in storing position.

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

3. If equipped, insert quick-lock pin (D) in pin (B) as shown in drawing (II).

- A—Jackstand
- B—Pin
- C—Cotter pin
- D—Quick-lock pin



OUC006.00012F5 -19-24SEP07-1/1

Connecting Telescoping Hook-Up to Tractor 540 RPM PTO Shaft



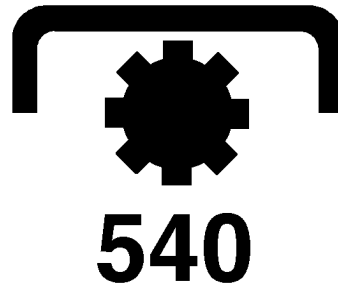
CAUTION: Never operate 540 rpm baler with 1000 rpm PTO.

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.

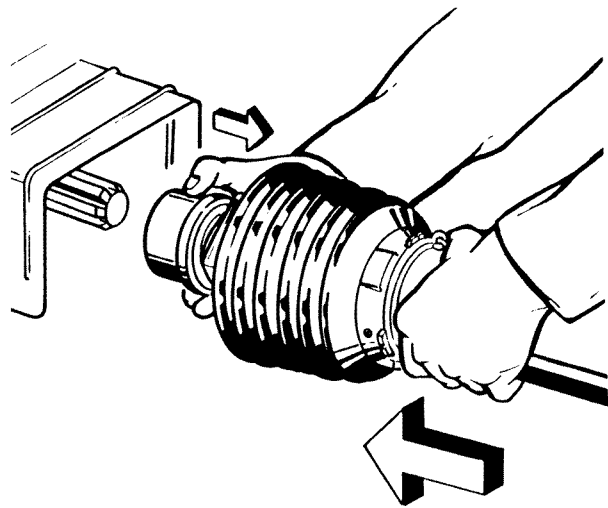
IMPORTANT: Keep hook-up and PTO shaft splines free from paint, dirt, chaff and burrs.

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



CC1020007

CC1020007 -UN-09JUL01



CC006613

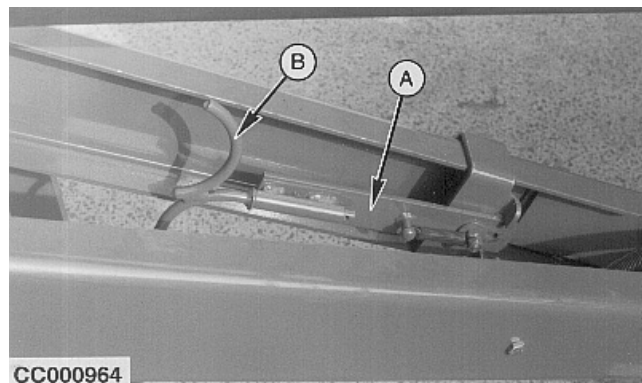
CC006613 -UN-23FEB95

CC03745,0000246 -19-05JUL01-1/1

Telescoping Hook-Up Support (up to S.N. 51787)

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

A—Support
B—Hook



CC000964

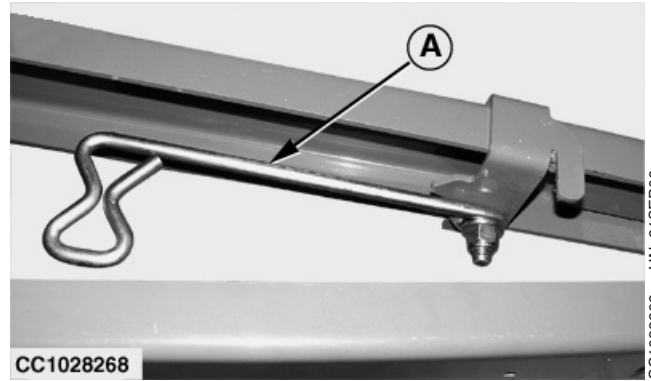
CC000964 -UN-22MAR95

OUC006,00010BE -19-12JUN06-1/1

Telescoping Hook-Up Support (from S.N. 51788)

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

A—Support



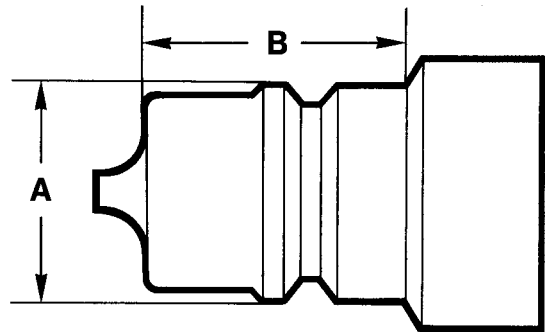
OUCC006.00010BF -19-15JUN06-1/1

Connecting to Tractor Hydraulic System

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

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

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



LX 006613

A—Diameter
B—Length

Specification

A—Diameter	23.66 — 23.74 mm (0.931 — 0.934 in.)
B—Length	24 mm (0.945 in.)

1. Locking SCV (Selective Control Valve) Levers

If equipped, push tractor SCV lever lockouts (A) to the right (transport lock) before attaching implements to prevent implement movement and possible personal injury.



A—SCV lever lockouts

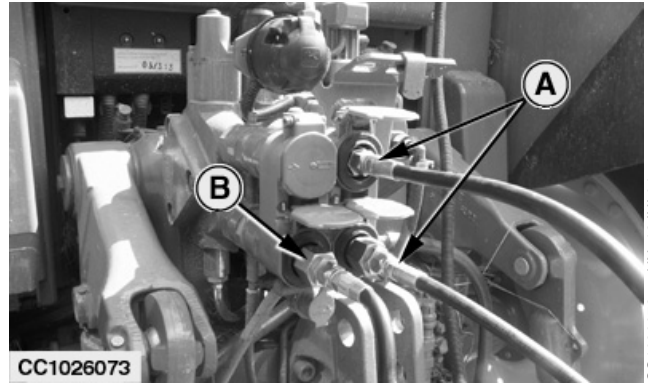
2. Connecting Gate and Pickup Lift Hydraulic Hoses

Push hoses firmly into tractor receptacles.

Connect gate hydraulic hoses (A) to a double-acting SCV to operate the gate. The gate should open when tractor SCV lever is moved rearward.

Connect pickup lift hydraulic hose (B) to a single-acting SCV. The pickup should raise when tractor SCV lever is moved rearward.

NOTE: Refer to your tractor Operator's Manual to connect pickup hydraulic hose to the recommended outlet.



A—Gate hydraulic hoses
B—Pickup hydraulic hose

OUCC006,00010B9 -19-11JAN07-2/2

Connecting Hydraulic Brakes (If Equipped)

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

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

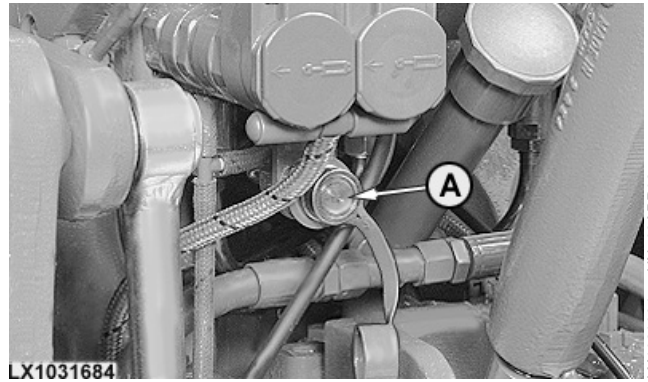
IMPORTANT: To prevent undue wear on the brakes, observe the following points:

Make sure that the pressure hose is connected.

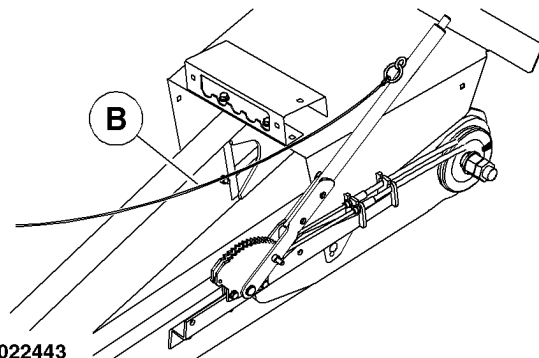
When driving downhill, select the same gear you would for driving uphill.

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

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



LX1031684



CC1022443

A—Trailer brake coupler
B—Safety Rope

OUCC006,0000E90 -19-19JUL05-1/1

Connecting Air Brakes (If Equipped)

IMPORTANT: Follow the colors of the couplers.

NOTE: Couplers and colors comply with 1728 ISO standard.

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

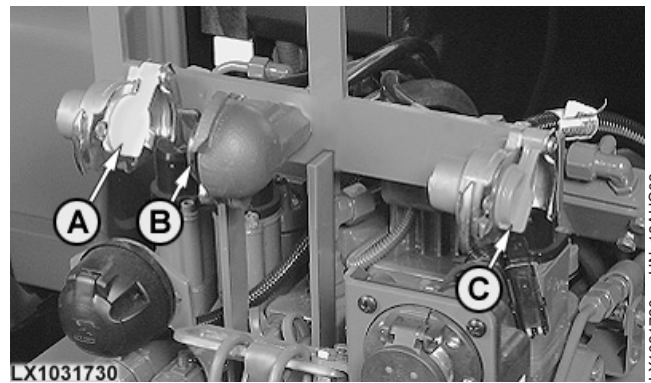
Connect yellow hose at connection (A) then red hose at connection (C). Disconnect in reverse order.

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

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

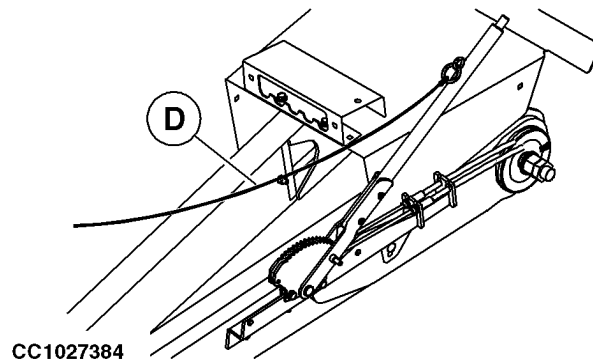
NOTE: When the brake hoses are disconnected from the tractor brake system, the brakes of the machine are automatically engaged. (See "Parking the Machine" in "Transporting" Section.)

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



LX1031730

LX1031730 -UN-13AUG03



CC1027384

CC1027384 -UN-21JUN05

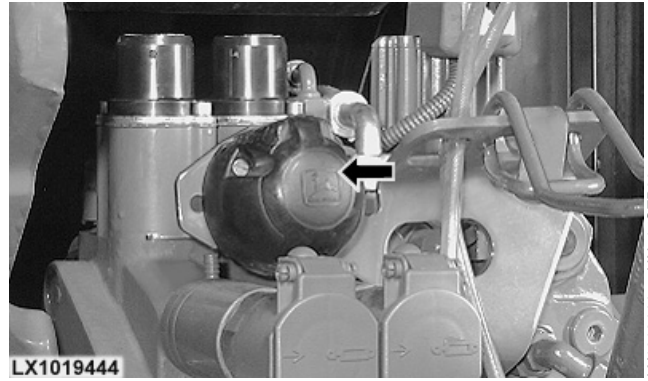
- A—Yellow (dual-line brake)
- B—Black (single-line brake)
- C—Red (dual-line brake, supply)
- D—Safety rope

Connecting Seven-Terminal Trailer Socket

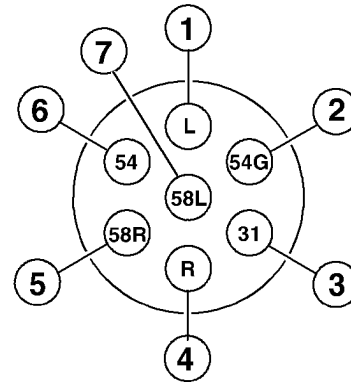
Connect road light plug to seven terminal socket of the tractor.

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

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



Tractor seven-terminal socket



CC017032

CC017032 -UN-25FEB00

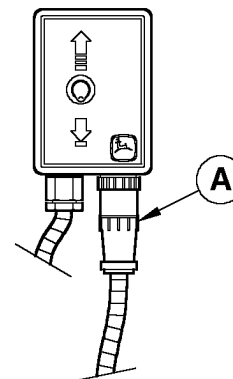
OUCC006,00010BA -19-22SEP06-1/1

Connecting Baler Wiring Harness to ELS Monitor

Line up timing marks on connector (A) and monitor.
Tighten locking ring.

IMPORTANT: Always connect baler wiring harness to special convenience outlet.

A—Connector



CC1020345

CC1020345 -UN-23AUG01

OUCC006,0000714 -19-10JUL02-1/1

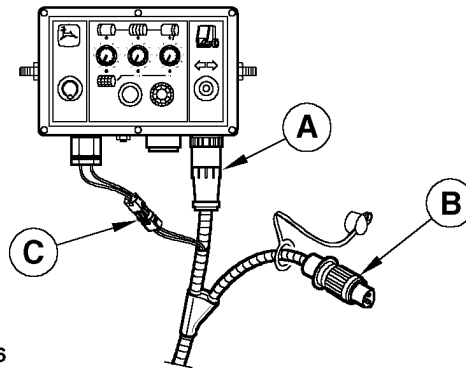
Connecting Baler Wiring Harness to ELC Monitor

Line up timing marks on connector (A) and monitor.
Tighten locking ring.

Connect connector (C).

Connect power supply plug (B) to the convenience outlet on the tractor.

IMPORTANT: Always connect baler wiring harness to special convenience outlet.



CC1020346

A—Connector
B—Power Supply Plug
C—Connector

CC1020346 -UN-23AUG01

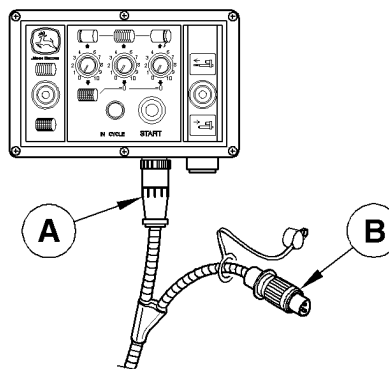
OUCC006.000073A -19-01AUG02-1/1

Connecting Baler Wiring Harness to ELC Plus Monitor

Line up timing marks on connector (A) and monitor.
Tighten locking ring.

Connect power supply plug (B) to the convenience outlet on the tractor.

IMPORTANT: Always connect baler wiring harness to special convenience outlet.



CC1027524

A—Connector
B—Power Supply Plug

CC1027524 -UN-22JUL05

OUCC006.00010BB -19-11JAN07-1/1

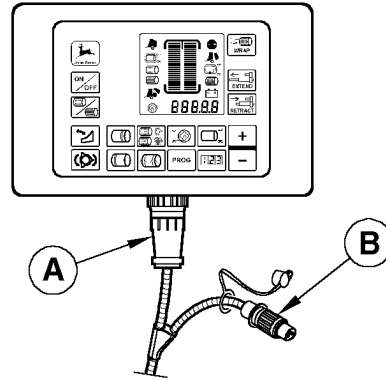
Connecting Baler Wiring Harness to BaleTrak Control

Line up timing marks on connector (A) and monitor.
Tighten locking ring.

Connect power supply plug (B) to the convenience outlet on the tractor.

IMPORTANT: Always connect baler wiring harness to special convenience outlet.

A—Connector
B—Power Supply Plug



CC1020347

CC1020347 -JUN-23AUG01

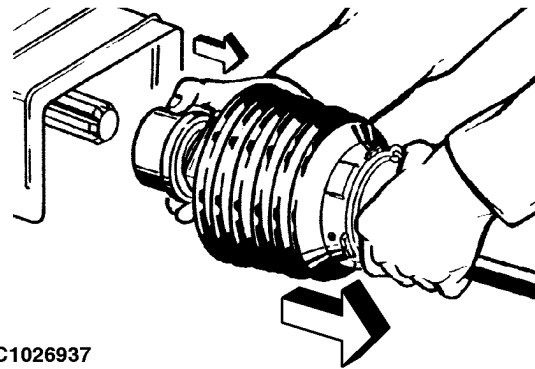
OUC006,00007C3 -19-23OCT02-1/1

Detaching Telescoping Hook-Up from Tractor PTO Shaft

Disengage the PTO, place transmission in "PARK", apply handbrake, shut off engine and remove ignition key.

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

Reinstall all shields, if removed.



CC1026937

CC1026937 -JUN-26JAN05

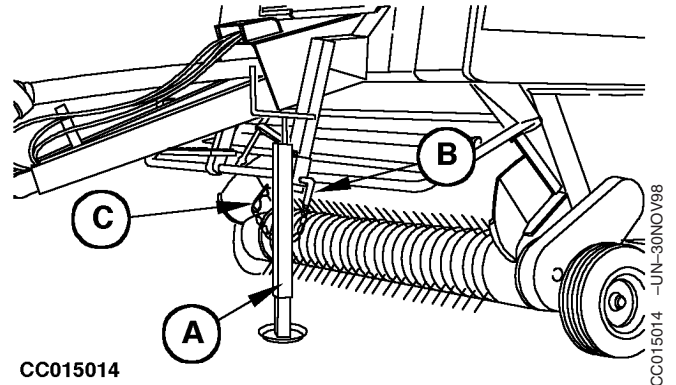
OUC006,0000DC6 -19-06JAN05-1/1

Using Jackstand (up to S.N. 58999 Baler without Brakes)

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

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

- A—Jackstand
- B—Pin
- C—Quick-lock pin



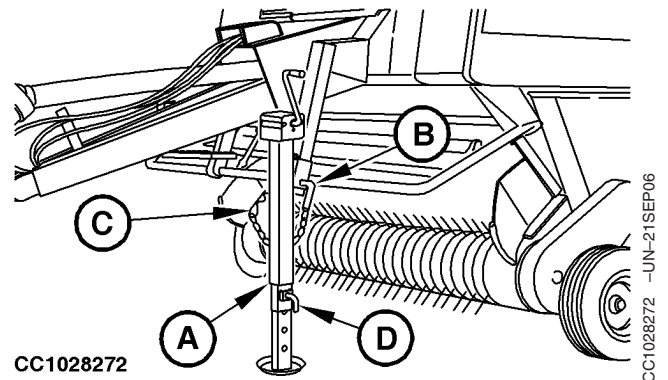
OUCC006.00010C3 -19-15DEC06-1/1

Using Jackstand (up to S.N. 58999 Baler with Brakes)

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

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

- A—Jackstand
- B—Pin
- C—Quick-lock pin
- D—Pin



OUCC006.00010C7 -19-18OCT06-1/1

Using Jackstand (from S.N. 60000)

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

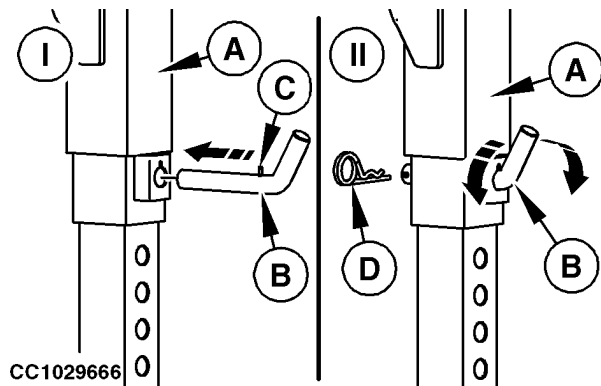
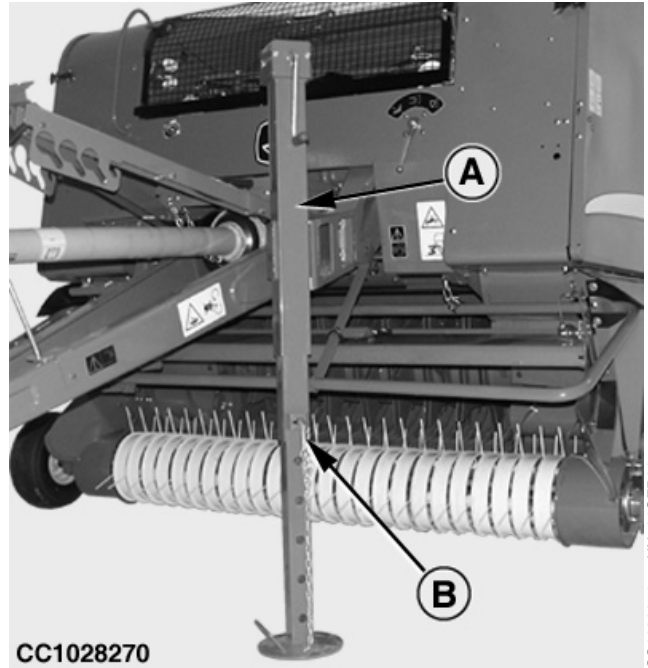
Secure jackstand (A) with pin (B) as follows:

1. Insert pin (B) as shown in drawing (I).
2. Turn pin (B) as shown in drawing (II) to secure jackstand.

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

3. If equipped, insert quick-lock pin (D) in pin (B) as shown in drawing (II).

- A—Jackstand
- B—Pin
- C—Cotter pin
- D—Quick-lock pin



OUCC006,00012F6 -19-25SEP07-1/1

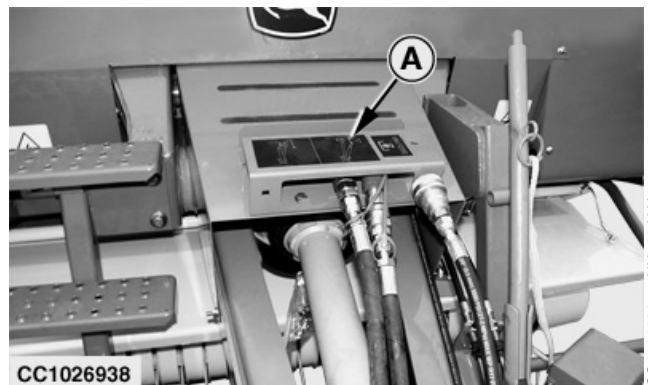
Storing Hydraulic Hoses (up to S.N. 68999)

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

Disconnect hydraulic hoses and install protective caps on couplers.

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

- A—Support



OUCC006,000113A -19-08AUG06-1/1

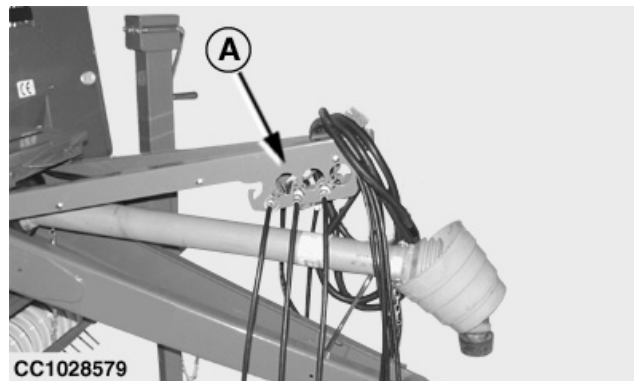
Storing Hydraulic Hoses (from S.N. 70000)

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

Disconnect hydraulic hoses and install protective caps on couplers.

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

A—Support

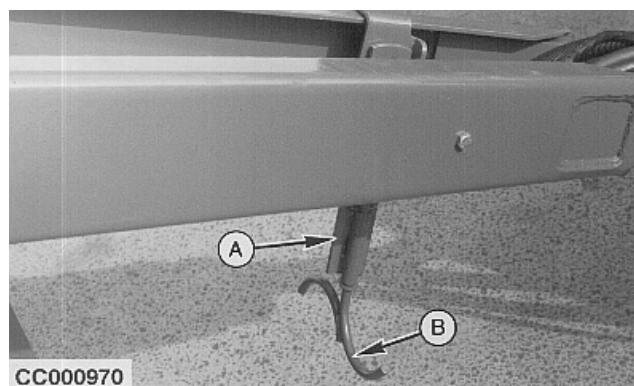


OUCC006,000113B -19-21NOV06-1/1

Storing Telescoping Hook-Up (up to S.N. 51787)

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 can be stored on it.

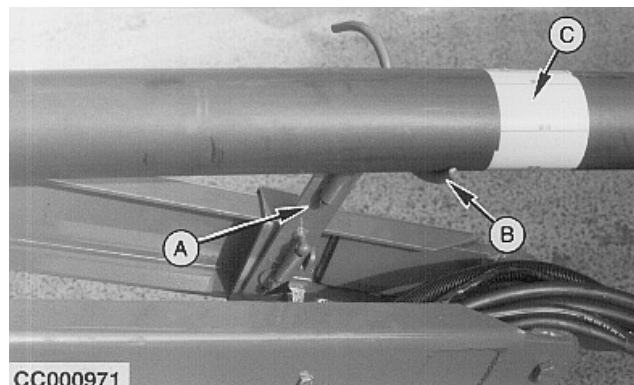
A—Support
B—Hook



OUCC006,00010C8 -19-16JUN06-1/2

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.

A—Support
B—Hook
C—Hook-up

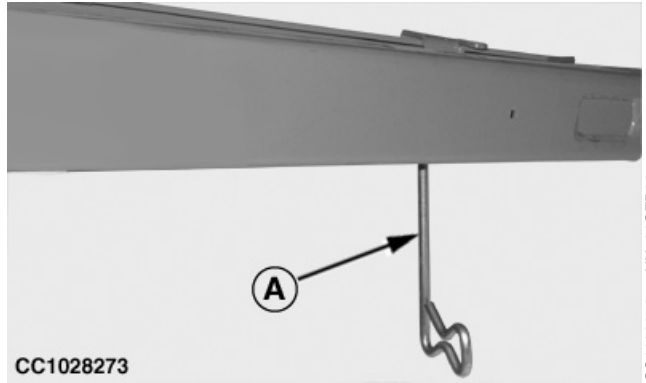


OUCC006,00010C8 -19-16JUN06-2/2

Storing Telescoping Hook-Up (from S.N. 51788)

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

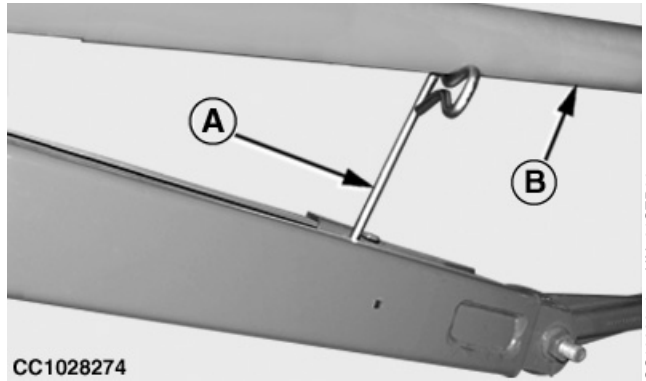
A—Support



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

A—Support

B—Hook-up



Transporting

Towing Baler on Public Roads

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

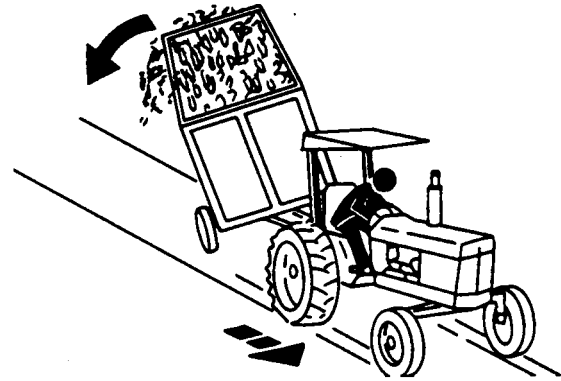
Before towing the baler at transport speed, close gate and raise pickup.

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

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

Maximum transport speed is determined by local road traffic regulations; always observe local road traffic regulations when driving on public roads.

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



H28930 -UN-30JUN89

TS216 -UN-23AUG88

OUC006,00010BC -19-09JUN06-1/1

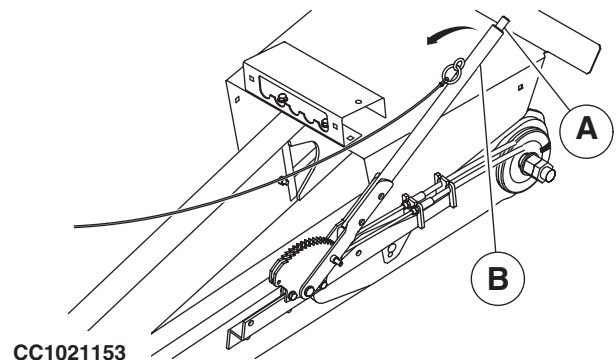
Parking the Machine (Baler with Hydraulic and Air Brakes)

Parking Brake

Pull lever (B) to engage parking brake.

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

A—Button
B—Lever



CC1021153

CC1021153 -UN-14FEB02

Continued on next page

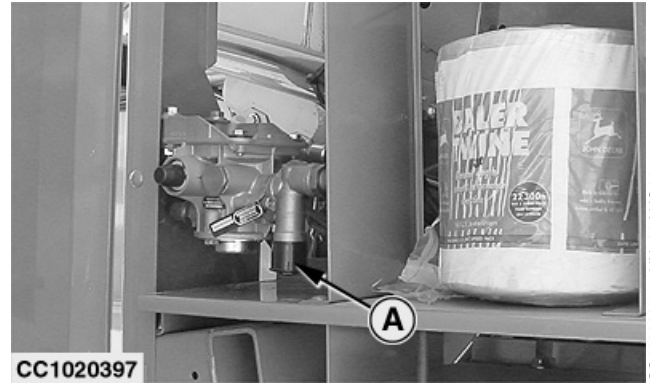
OUC006,00010BD -19-11JAN07-1/2

Air Brake Valve

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

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

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



Air Brake Valve

A—Button

Operating the Baler—General Purposes

Break-In Period

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

Before operation, lubricate telescoping members of PTO hook-up liberally.

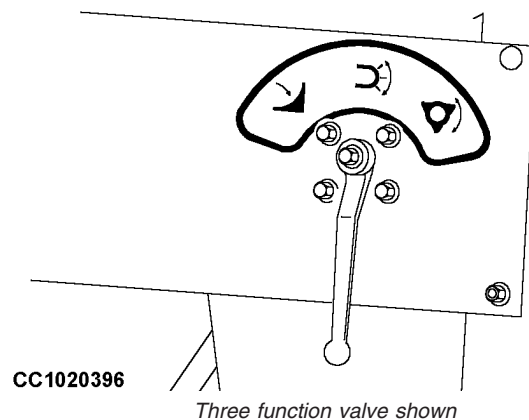
IMPORTANT: On baler equipped with cam clutch: If slippage occurs during operation, disengage PTO and re-engage at low idle until cam clutch re-engages, then operate again at rated PTO speed.

CC03745,0000250 -19-09JUL01-1/1

Before Engaging Power Take-Off



CAUTION: To prevent machine failure on baler with rotary feeder and without BaleTrak, be sure that two or three function valve lever is in position to raise or lower the pickup before engaging the tractor Power Take-Off.



CC1020396 -UN-30AUG01

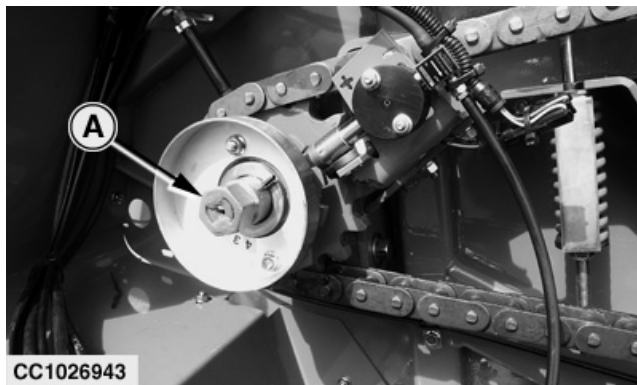
OUCC006,0001115 -19-10JAN07-1/1

Rotating Baler by Hand

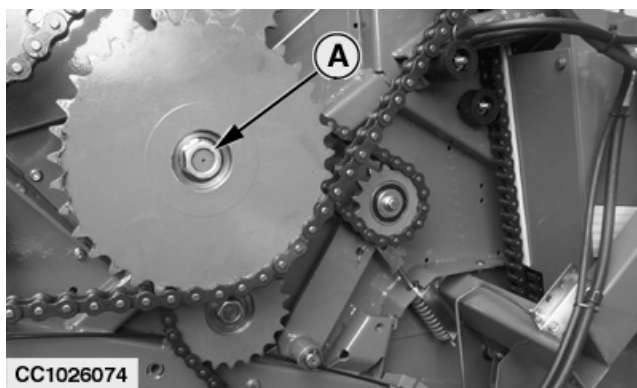
⚠ CAUTION: DO NOT TAKE CHANCES! Never use any type of tool or spanner to turn baler by hand while tractor engine is running. Disengage the PTO, place transmission in "PARK", apply handbrake, shut off engine, remove ignition key and wait for moving parts to come to a standstill. Always remove tool as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

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

A—Nut



Rotating Baler by Hand (up to S.N. 49999)



Rotating Baler by Hand (from S.N. 50000)

OUCC006,0000DA5 -19-27JAN05-1/1

Crop Preparation

Windrow Size

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

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

Preparing the Hay Crops for Baling

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

Preparing the Silage Crops for Baling

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

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

Preparing the Straw Crops for Baling

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

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.

Continued on next page

CC03745,0000254 -19-09JUL01-1/2

Narrow Windrows

Crowd the material into one side of the pickup for 6 to 8 seconds. Then cross over the windrow and crowd material into the opposite side for the same period of time. 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.

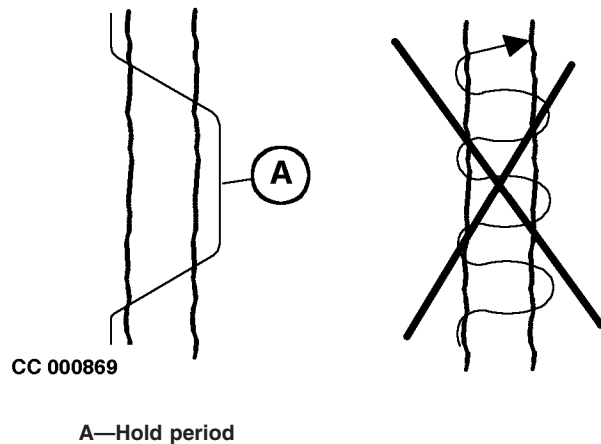
For balers operated with BaleTrak control monitor, refer to the information given in “Forming a Bale” in “Operating BaleTrak Control” Section to correctly feed the material.

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.

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.



CC000869 -UN-05APR95

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 broken pickup teeth.
- Whenever necessary, install the straw bar kit to improve the pickup to bale chamber feeding. (See "Installing Straw Bar" in this Section).
- Install belt kit (except for MultiCrop baler). See "Attachments" section.

Baler with Precutter Device:

It may be necessary to reduce number of knives or to remove them.

OUCC006,000124E -19-18DEC06-1/1

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.

Baler with Precutter Device:

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

CC03745,0000256 -19-09JUL01-1/1

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.

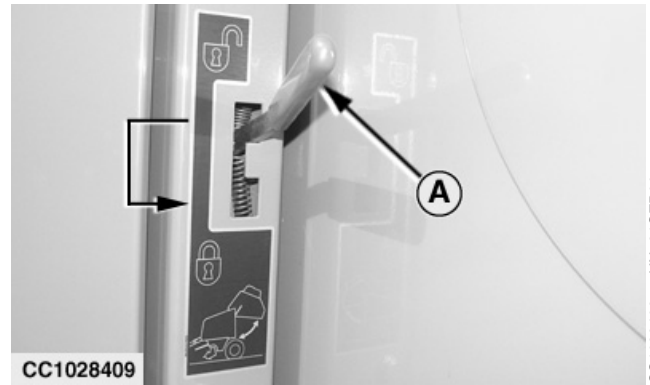
CC03745,0000257 -19-09JUL01-1/1

Gate Lock Valve

CAUTION: Before working inside or around baler with an open gate, gate lock lever (A) must be moved to locked position. Always use this safety feature when 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.

A—Gate lock lever



OUCC006,0000BCD -19-23JUN06-1/1

Unplugging Baler with Rotary Feeder Mounted Below Feeding Channel

Open gate.

Engage tractor parking lock, shut off tractor engine, remove key.

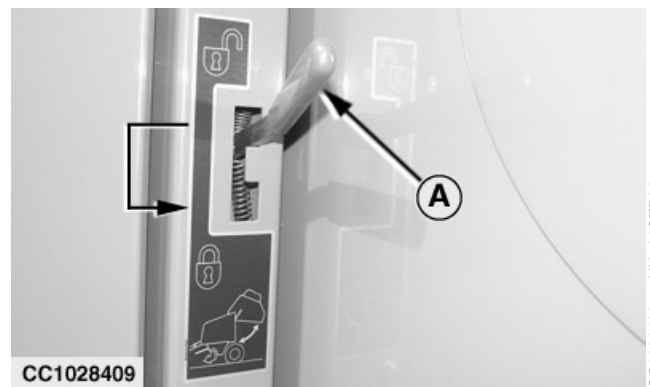
Place gate lock lever (A) in "LOCK" position.

CAUTION: Never unplug baler manually if tractor is running.

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.



A—Gate lock lever

OUCC006,000122C -19-02FEB07-1/1

Unplugging Baler with Double Rotary Feeder

When the double rotary feeder is plugged and the shear bolt is broken, the operator can unplug the double rotary feeder with tool (C).

Unplug double rotary feeder as follow:

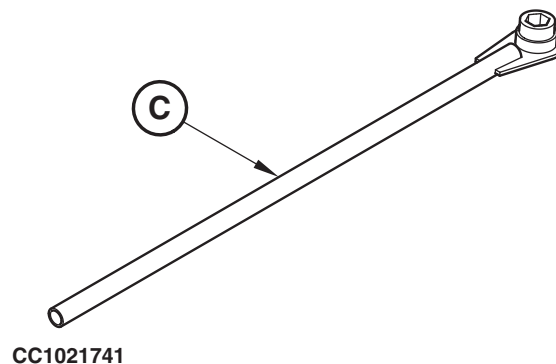
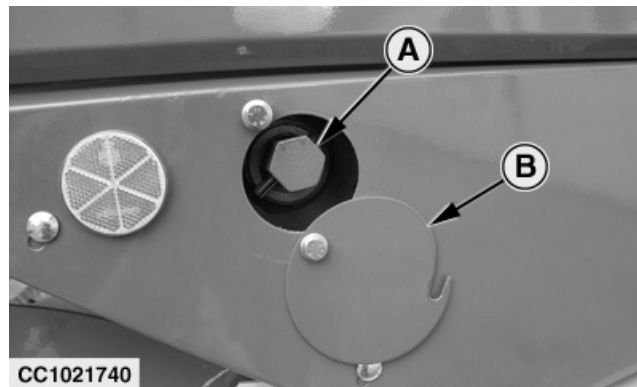
Turn the swivel cover (B).

Place tool (C) on shaft (A).

Turn tool (C) to unplug the double rotary feeder.

Replace shear bolt. See "Replacing Pickup Drive Shear Bolt (Baler with Rotary Feeder Mounted Below Feeding Channel or Double Rotary Feeder)" in "Service" section.

- A—Shaft
- B—Swivel cover
- C—Tool



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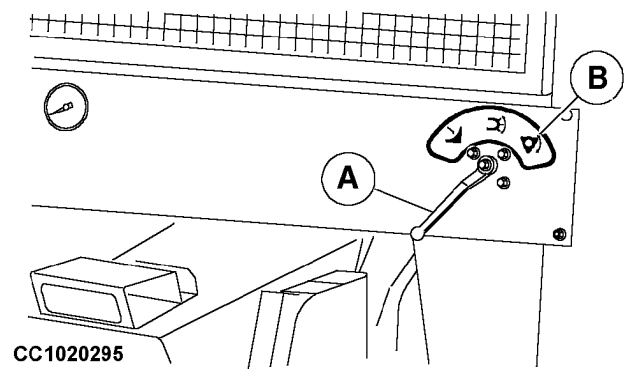
Unplugging Baler with Rotary Feeder (Baler without BaleTrak Plus)

NOTE: Reversing rotary feeder function uses the same selective control valve as the pickup raise/lower control.

Whenever necessary to unplug the baler, reverse the rotary feeder drive.

1. Stop tractor.
2. Disengage the PTO.
3. Turn three function valve lever (A) in position (B) to reverse rotary feeder.
4. Act on selective control valve lever to reverse the baler gear box.
5. Slowly engage the PTO at slow tractor idle in such a way that the rotary feeder receives only one impulsive rotation movement. Impulsive movement means, **NOT MORE THAN A HALF TURN OF ROTARY FEEDER PER IMPULSE**. Failure to do so could result in material wraps and rotary feeder plugging.
6. When the rotary feeder is unplugged, disengage the PTO and act on selective control valve lever to move the baler gear box in the normal operation.
7. Move lever (A) in position to raise or lower the pickup.

IMPORTANT: The PTO must be disengaged to change the direction of the rotary feeder.



A—Three function valve lever
B—Position to reverse rotary feeder

CC1020295 -JUN-03AUG01

OUCC006,00010FE -19-04DEC06-1/1

Unplugging Baler with Rotary Feeder (Baler with BaleTrak Plus)

See "Unplugging Baler with Rotary Feeder" in "Operating BaleTrak Control Monitor" section to safely unplug the baler.



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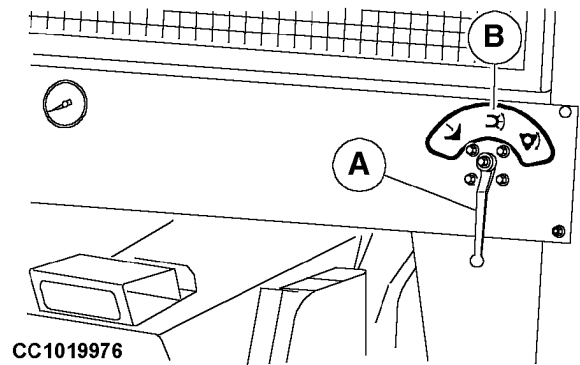
OUCC006.00010CD -19-28JUL06-1/1

Raising/Lowering Rotary Feeder Pickup (Baler without BaleTrak Plus)

Turn three function valve lever (A) in position (B) to raise or lower the pickup.

Act on selective control valve lever of the tractor to raise or lower the pickup.

- A—Three function valve lever
- B—Position to raise or lower the pickup



Baler with Precutter Shown

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OUCC006.00010DE -19-12JAN07-1/1

Retracting/Engaging Precutter Knives (Baler without BaleTrak Plus)

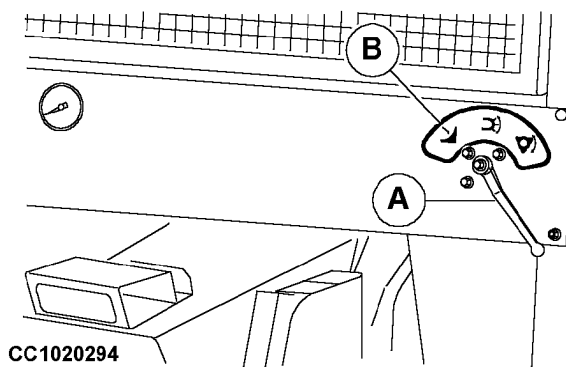
NOTE: Retracting/engaging precutter knives function uses the same selective control valve as the pickup raise/lower control.

Turn three function valve lever (A) in position (B) to retract or engage precutter knives.

Act on selective control valve lever of the tractor to retract or engage the knives.

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

NOTE: When using baler with knives retracted for a long period of time, it is recommended to remove them (see "Replacing Precutter Knives" in "Service" section) and to install fillers to plug the knife slot (see "Knife Slot Filler Kit" in "Attachments" section).



A—Three function valve lever
B—Position to retract or engage precutter knives

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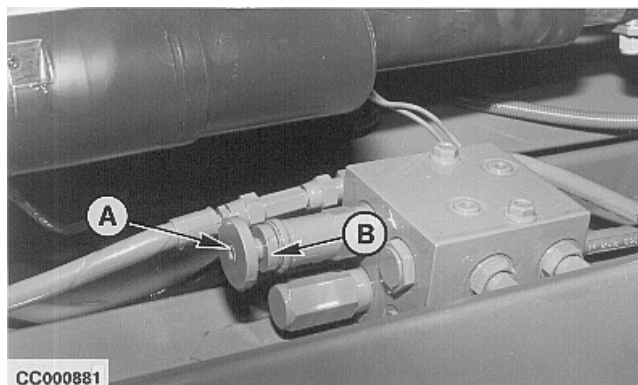
Adjusting Bale Density

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 1½ turns and tighten locking ring (B).



A—Bale density knob
B—Locking ring

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OUCC006,0001254 -19-10JAN07-1/1

Bale Density Gauge

The gauge indicates the relative pressure within the hydraulic bale tensoning 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.

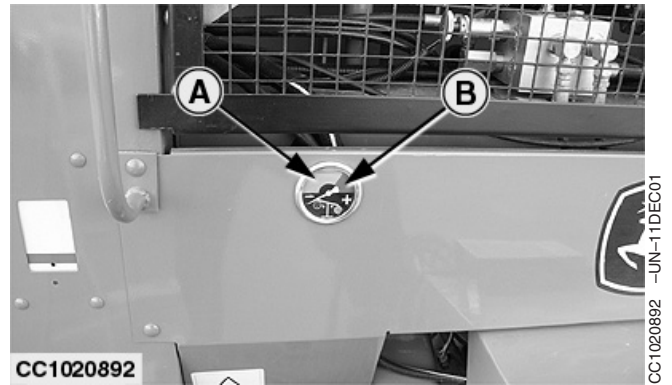
Turning the bale density knob clockwise will cause the needle to move towards the plus sign and make heavier bales.

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.



A—Green band
B—Red band

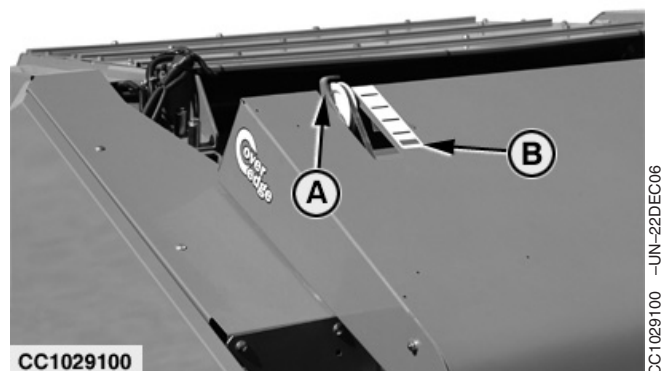
OUC006,0000535 -19-13NOV01-1/1

Net Roll Diameter Indicator (Baler with CoverEdge Net Tying Device)

The net roll diameter indicator (A) allows operator to know the net roll diameter left.

When indicator (A) is in position shown, net roll diameter is maximum.

When indicator (A) reaches red band (B), net roll diameter is minimum.



A—Net roll diameter indicator
B—Red band

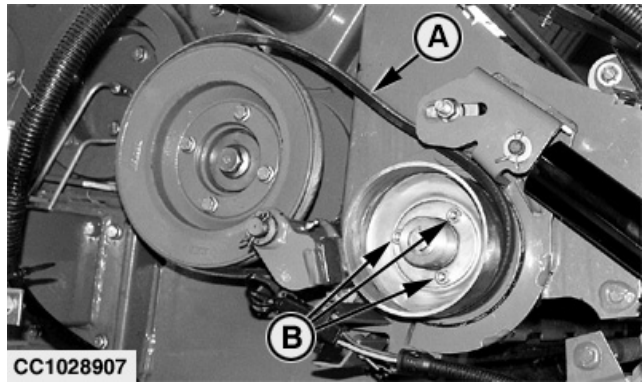
OUC006,0001247 -19-02FEB07-1/1

Adjusting Net Tying Stretch (Baler with CoverEdge™ Net Tying Device)

To adjust net tying stretch, proceed as follows:

1. Remove belt (A) and loosen cap screws (B).

A—Belt
B—Cap screws



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OUCC006,00012F7 -19-26SEP07-1/4

2. Release net feed roll brake.

- a. With BaleTrak™ monitor:

Extend the net actuator in middle position.

Turn off monitor.

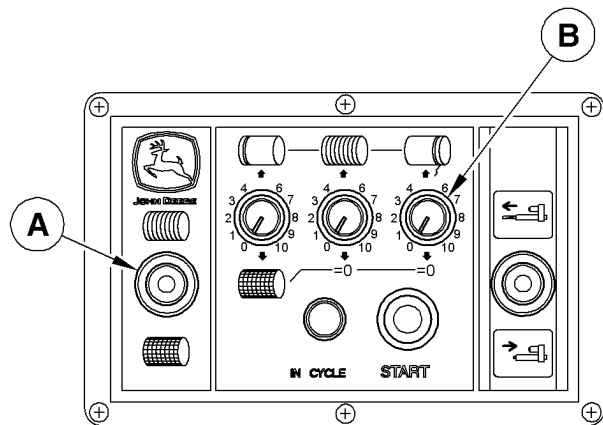
- b. With ELC Plus monitor:

Move switch (A) in Net tying position.

Turn actuator positioning potentiometer (B) on 10 and press start button to place automatically the net actuator in middle position.

Move switch (A) to OFF position.

A—Net/Twine tying switch
B—Actuator positioning potentiometer



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OUCC006,00012F7 -19-26SEP07-2/4

3. Remove cap screws (A) and washers (B).
4. Remove shims (C) and sheave (F).

NOTE: During removal, record number and location of shims (C).

5. Net tying stretch depends on number of shims (C) in position (D).

To increase net tying stretch, transfer shims (C) from position (D) to position (E).

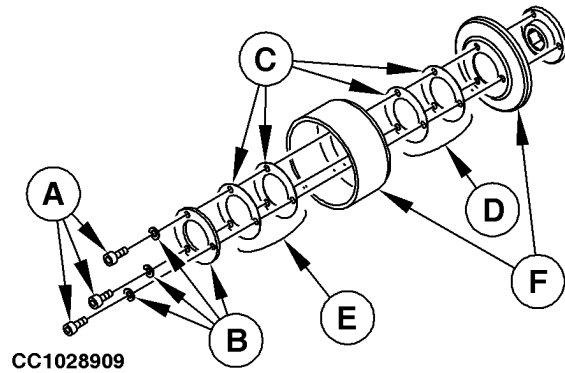
To decrease net tying stretch, transfer shims (C) from position (E) to position (D).

NOTE: Factory setting for net tying stretch is two shims (C) in position (D).

Net tying stretch depends on net roll specifications and crop pressed.

Once the stretch is adjusted:

- a. Reinstall sheave (F) with shims (C).
- b. Reinstall cap screws (A) and washers (B).
- c. Screw in cap screws (A) so that there is no gap in the assembly.



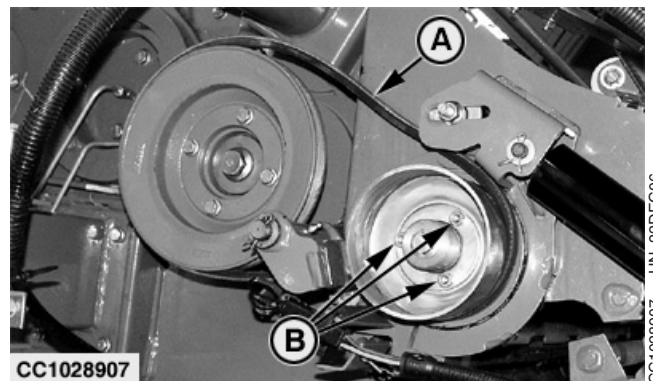
- A—Cap screws
- B—Washers
- C—Shims
- D—Adjustment position
- E—Storage position
- F—Sheave

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OUCC006.00012F7 -19-26SEP07-3/4

6. Retract net actuator.
7. Tighten cap screws (B).
8. Reinstall belt (A).

- A—Belt
- B—Cap screws



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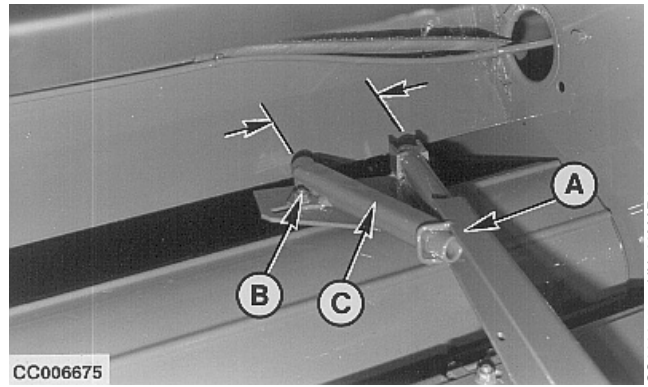
OUCC006.00012F7 -19-26SEP07-4/4

Adjusting Twine Arm Tube Spacing (Single Arm Double Twine Tying)

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

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

IMPORTANT: On baler equipped with BaleTrak control monitor, the distance between tubes must be the same as the twine spacing set with the monitor.



A—Single arm double twine tying
B—Nut
C—Tube

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Adjusting Twine Guide (Single Arm Tying)

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 balers with ELC monitor, check that the twine guide position matches the re-extension point setting. See “Operating ELC Monitor in Twine Tying Mode” in “Operating ELC Monitor” Section.

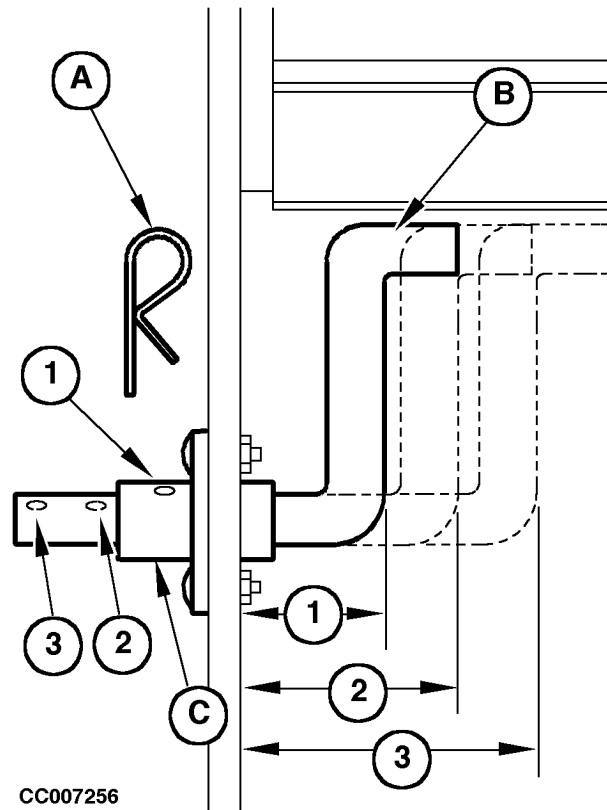
On balers with BaleTrak control monitor, check that the twine guide position matches the monitor setting. See “Setting Twine Tying” in “Operating BaleTrak Control” Section.

Adjust twine guide as follows:

1. Remove spring-locking pin (A).
2. Slide twine guide (B) to align its hole with one of the twine guide tube (C) positioning holes (1-2-3).
3. Install spring locking pin (A).

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

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



CC007256

- 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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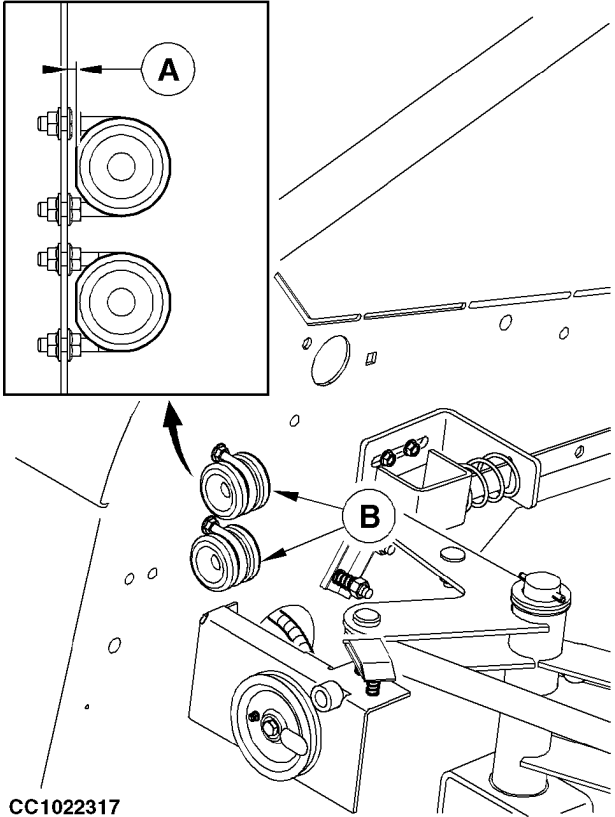
Adjusting Twine Guides (Double Arm Tying)

Adjust the twine guides (B) distance (A) to the following specification:

Specification

Twine Guides—Distance 2 mm (0.08 in.) minimum

- A—Distance
- B—Twine guide



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Adjusting Bale Full-Size (Mechanical Bale Shape Indicators)

Maximum bale full-size

1. 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 top position. Red zones must be flush with top of bale shape windows (C).

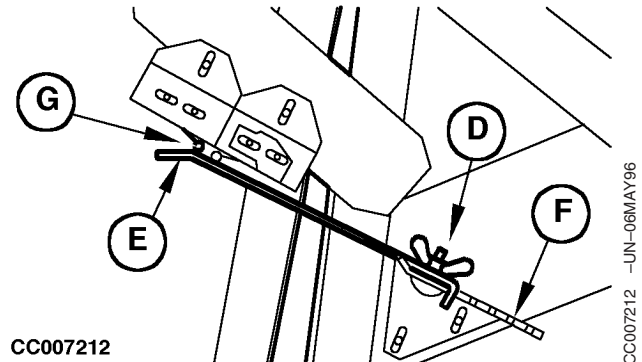
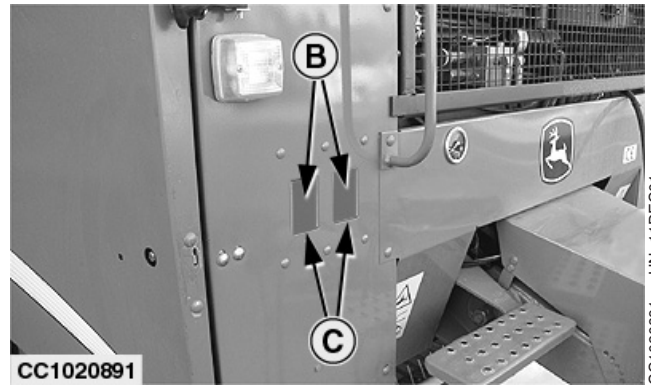
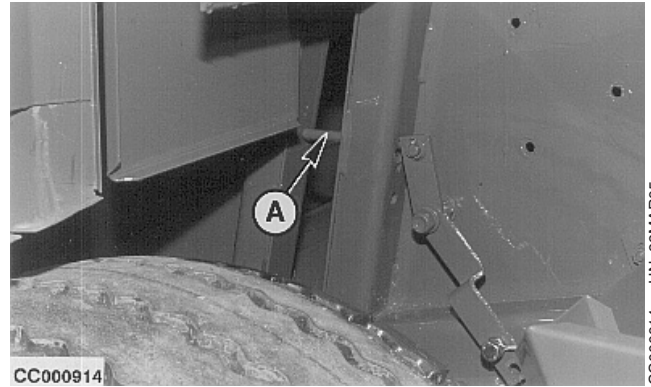
NOTE: If one of the red zones is below the top of bale shape windows (C), then readjust relevant bale shape indicator strap (B) before adjusting bale full-size. See "Adjusting Bale Shape Indicator Straps" in "Service" section.

2. 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 permissible bale size.
3. Tighten wing nut (D).

Intermediate bale full-size

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

1. Unscrew wing nut (D) to readjust ramp (E) position by using one of the other slots (F), changing switch actuation accordingly.
2. Slowly open the gate until switch roller (G) is just level with the edge of the ramp (E).
3. Tighten wing nut (D).



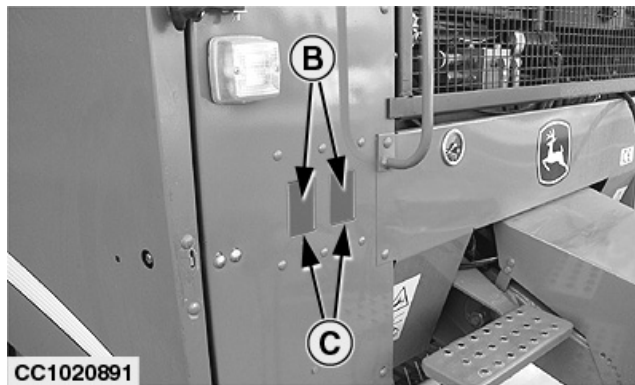
- A—Gate dogs
- B—Bale shape indicator straps
- C—Bale shape windows
- D—Wing nut
- E—Ramp
- F—Slot
- G—Switch roller

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OUC006,000130D -19-04SEP07-1/2

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

B—Bale shape indicator straps
C—Bale shape windows



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OUCC006,000130D -19-04SEP07-2/2

Adjusting Bale Full-Size (Electronic Bale Shape Indicators)

Maximum bale full-size

To obtain maximum bale full-size, proceed as follows:

1. Unscrew wing nut (A) and put ramp (C) into the rearmost slot (B).
2. Tighten wing nut (A).

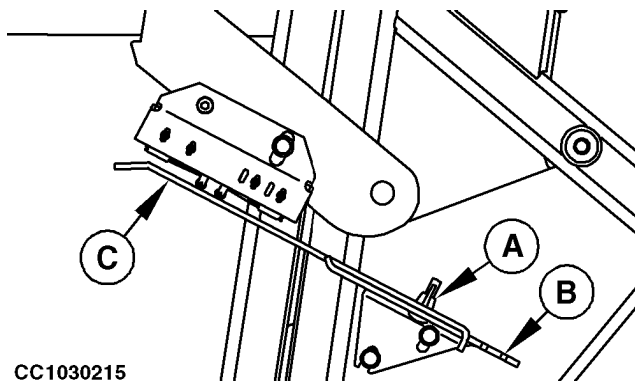
Intermediate bale full-size

To get smaller bale full-size, proceed as follows:

1. Unscrew wing nut (A) to readjust ramp (C) position by using one of the other slots (B), changing switch actuation accordingly.

NOTE: MultiCrop™ baler has only two slots (B).

2. Tighten wing nut (A).



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A—Wing nut
B—Slot
C—Ramp

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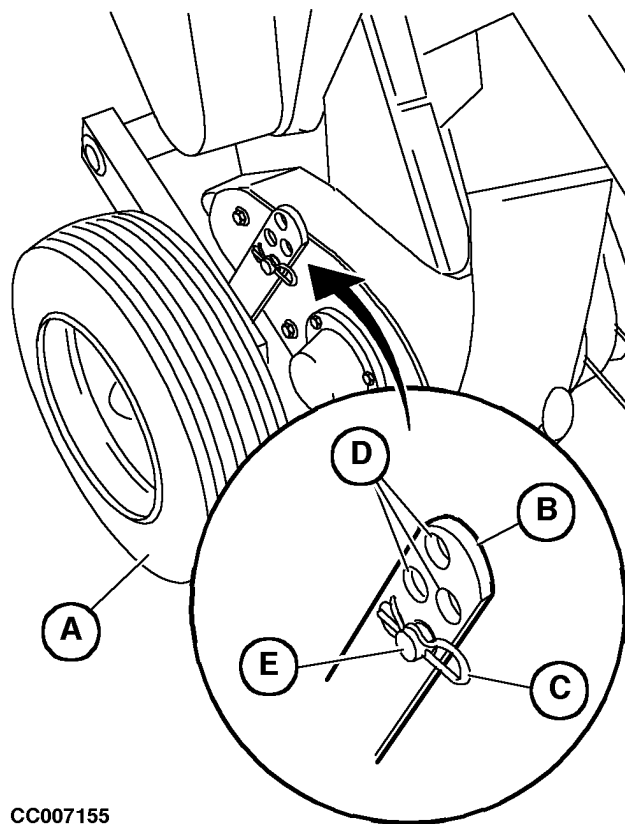
Adjusting 2.00 m (6 ft 7 in.) Rotary Feeder Pickup Height (Pickup without Downstop)

IMPORTANT: Gauge wheels (A) are designed to be constantly in contact with the ground.

Adjust pickup height by positioning gauge wheel support (B) as follows:

1. Act on selective control valve lever to fully raise the pickup.
2. 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).
3. Repeat procedure on opposite side.
4. Act on selective control valve lever to fully lower the pickup.

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



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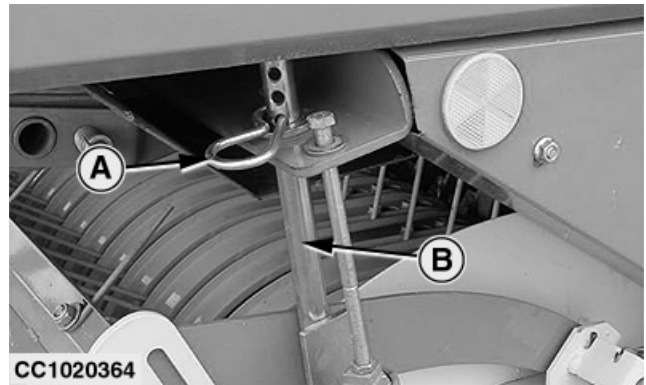
OUCC006.0001111 -19-21JUL06-1/1

Adjusting 2.00 m (6 ft 7 in.) Pickup Height (Baler with Rotary Channel Mounted Below Feeding Channel or Double Rotary Feeder)

Adjust pickup height as follows:

1. Act on selective control valve lever to fully raise the pickup.
2. Remove spring pin (A) then install it in one of the holes of the downstop (B).
3. Act on selective control valve lever to fully lower the pickup.
4. Check pickup height.
5. Repeat procedure until the desired height is obtained.

NOTE: The lowest hole allows to lock the pickup in the highest position for transport.



A—Spring Pin
B—Downstop

OUCC006.0001113 -19-02FEB07-1/1

Adjusting 2.00 m (6 ft 7 in.) and 2.20 m (7 ft 2.6 in.) Rotary Feeder Pickup Height (Pickup with Downstop)

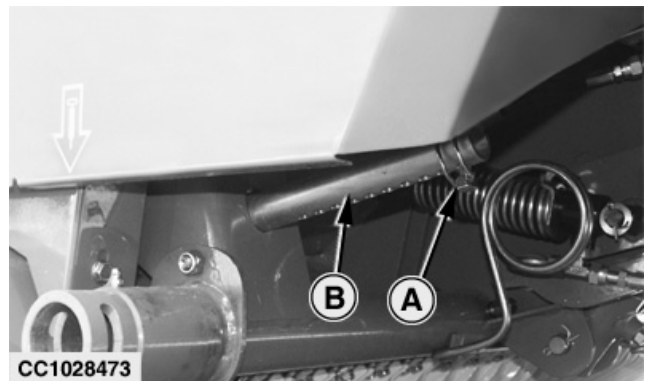
Act on selective control valve lever to fully raise the pickup.

Remove shaft locking pin (A) then engage it through one of the downstop holes and the rod inside the downstop tube (B).

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

Check pickup height.

Repeat above procedure until the desired height is obtained.



A—Shaft locking pin
B—Downstop tube

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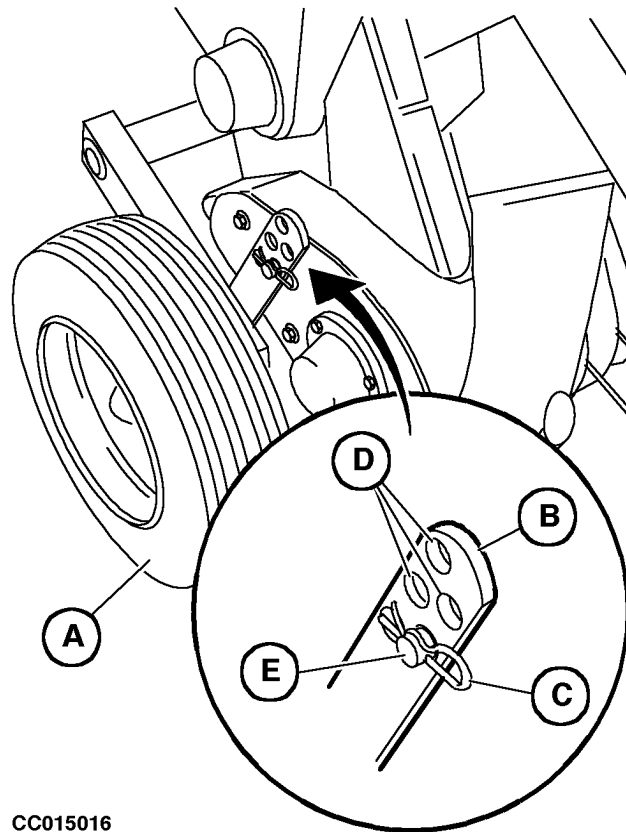
Adjusting Rotary Feeder Pickup Gauge Wheels (without Transport Position)

IMPORTANT: Gauge wheels (A) are not designed to be constantly in contact with the ground.

Adjust pickup gauge wheels as follows:

1. Adjust the pickup height.
2. Act on selective control valve lever to fully lower the pickup.
3. Remove spring-locking pin (C) then choose one of the positioning holes (D) to fix support (B) on stud (E) so that gauge wheels are just above the ground (gauge wheels must be approximately at the same height as pickup teeth). Install spring-locking pin (C).

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



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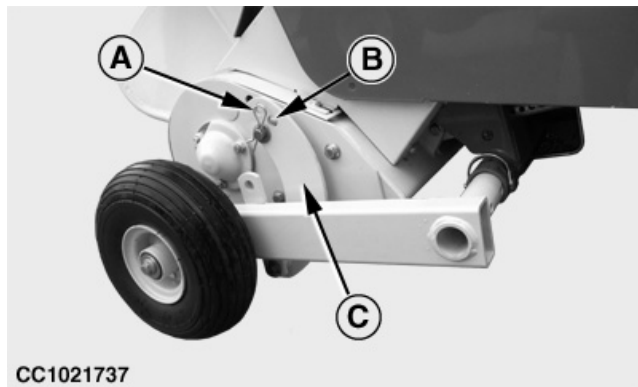
OUC006,0001117 -19-28NOV06-1/1

Adjusting Rotary Feeder Pickup Gauge Wheels (with Transport Position)

IMPORTANT: Gauge wheels are not designed to be in constant contact with the ground.

1. Adjust the pickup height.
2. Act on selective control valve lever to fully lower the pickup.
3. Remove spring-locking pin (A) then choose one of the positioning holes (B) to fix support (C) so that gauge wheel is just above the ground (gauge wheel must be approximately at the same height as pickup teeth).
4. Install spring-locking pin (A).

Repeat procedure on opposite side.



A—Spring-locking pin
B—Positioning holes
C—Support

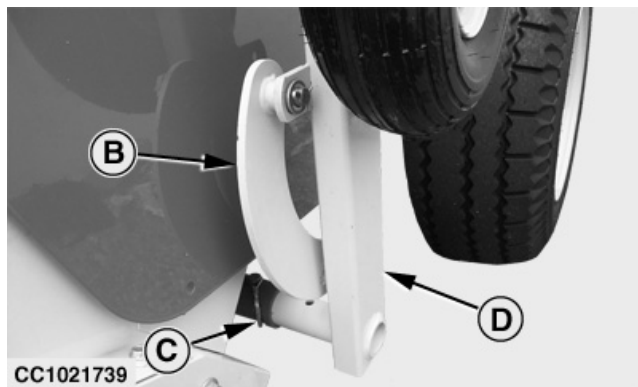
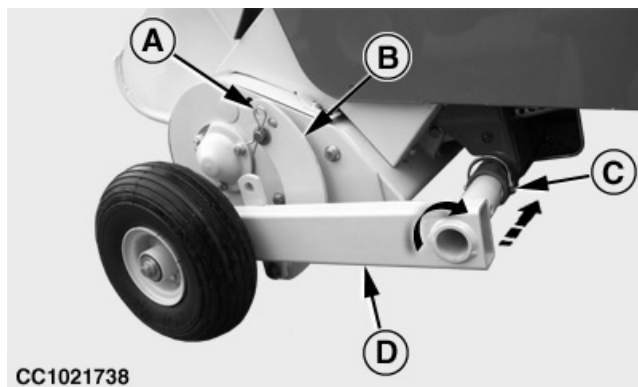
OUC006,00011D5 -19-13OCT06-1/1

Moving Rotary Feeder Pickup Gauge Wheels in Transport Position

1. Remove shaft locking pin (C).
2. Remove spring-locking pin (A).
3. Secure support (B) on gauge wheel arm (D) with spring-locking pin (A).
4. Rotate gauge wheel arm (D) and slide it as shown. Secure it with shaft locking pin (C).

Repeat procedure on opposite side.

A—Spring-locking pin
B—Support
C—Shaft locking pin
D—Gauge wheel arm



OUC006,000122E -19-12JAN07-1/1

Adjusting Rotary Feeder Pickup Caster Gauge Wheels

IMPORTANT: Caster gauge wheels are not designed to be in constant contact with the ground.

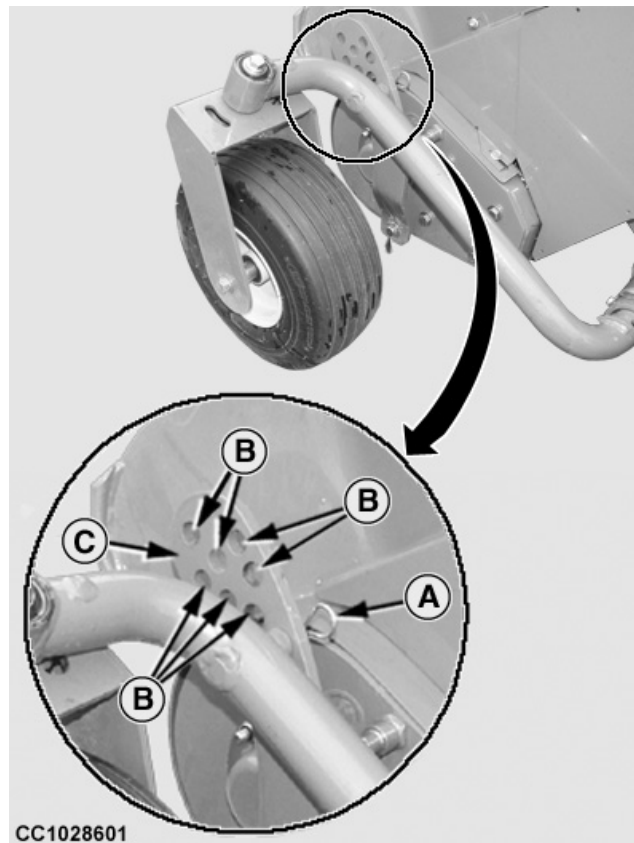
1. Adjust the pickup height.
2. Act on selective control valve lever to fully lower the pickup.
3. Remove spring-locking pin (A).
4. Choose one of the positioning holes (B) to fix support (C).

NOTE: Caster gauge wheel must be approximately at the same height as pickup teeth, and just above the ground.

5. Install spring-locking pin (A).

Repeat procedure on opposite side.

A—Spring-locking pin
B—Positioning holes
C—Support



CC1028601 -UN-19SEP06

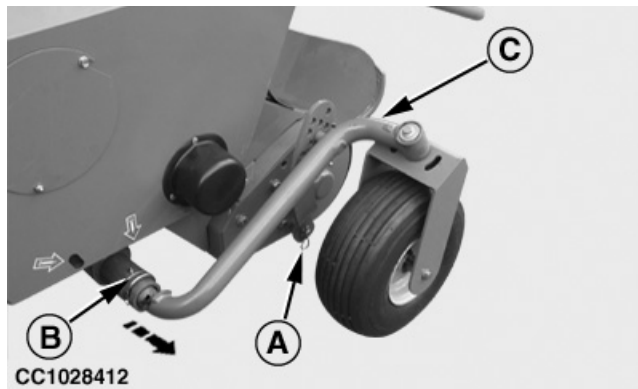
OUCC006.00011D6 -19-15DEC06-1/1

Moving Rotary Feeder Pickup Caster Gauge Wheels in Transport Position

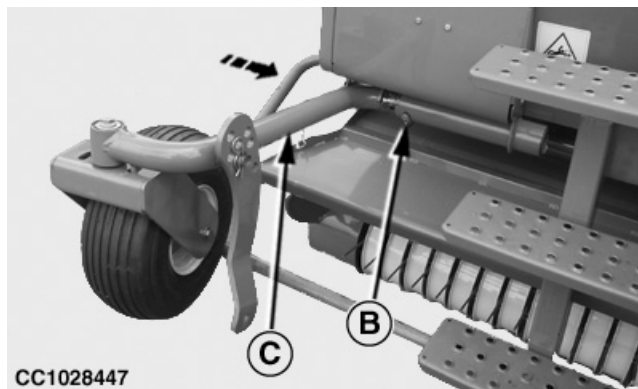
1. Remove shaft locking pin (B).
2. Remove spring-locking pin (A).
3. Remove caster gauge wheel arm (C).
4. Position caster gauge wheel arm (C) as shown. Secure it with shaft locking pin (B).

Repeat procedure on opposite side.

- A—Spring-locking pin
- B—Shaft locking pin
- C—Caster gauge wheel arm



CC1028412 -UN-21SEP06



CC1028447 -UN-21SEP06

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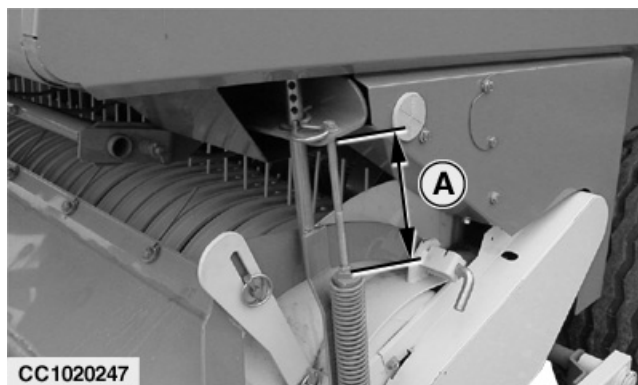
Adjusting Pickup Float Spring (Baler with Rotary Feeder Mounted Below Feeding Channel or Double Rotary Feeder)

Fully lower pickup.

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

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

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



CC1020427 -UN-07SEP01

A—190 mm (7.5 in.)

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Adjusting Rotary Feeder Pickup Float Spring

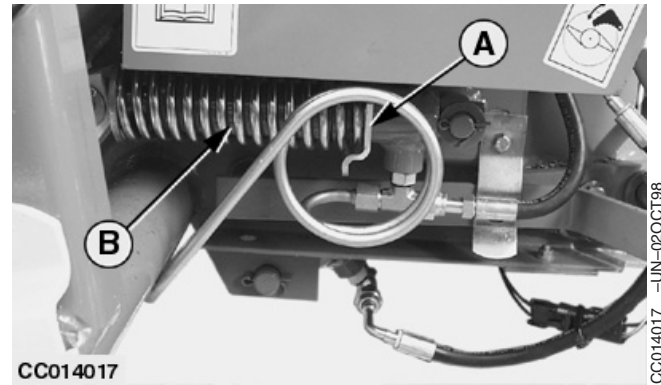
Hydraulically raise pickup to release spring pressure.

Set the bottom washer (A) into one of the 4 grooves on each cylinder barrel (B).

Lower the pickup.

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

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



A—Washer
B—Cylinder barrel

OUC006,0001114 -19-21JUL06-1/1

Positioning Short Crop Deflector (Baler with Rotary Feeder)

The rotary feeder short crop deflector (A) can be set in several operating positions when baling short crops or in storage position when baling normal crops.

Moving from Storage to Operating Position

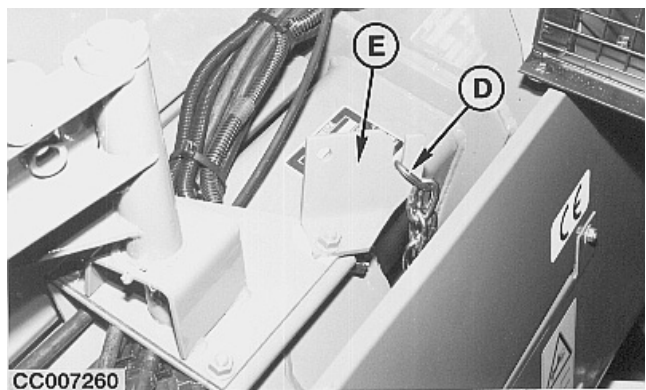
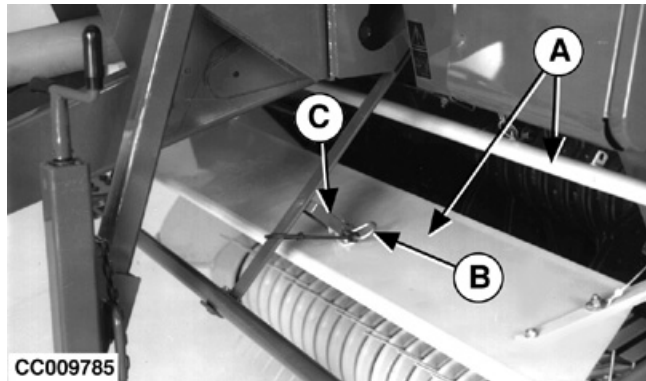
1. Hold short crop deflector (A) by hand, then remove spring-locking pin (B).
2. Let the short crop deflector (A) fall down.
3. Store spring-locking pin (B) on strap (C).
4. Depending on the windrow thickness, attach chain link (D) on chain anchor (E) to obtain the desired space between tip of pickup teeth and short crop deflector (A).

NOTE: The short crop deflector is spring loaded to allow floating. This floating can be adjusted by using more or less chain links between spring anchors.

Moving from Operating to Storage Position

1. Remove spring-locking pin (B) from strap (C).
2. Raise short crop deflector (A) and secure it with spring-locking pin (B) on strap (C).

NOTE: Chain can stay attached on anchor to recover the same short crop deflector (A) adjustment for next use.



- A—Short crop deflector
- B—Spring-locking pin
- C—Strap
- D—Chain
- E—Anchor

Adjusting Pickup Roll Compressor Height (if Equipped)

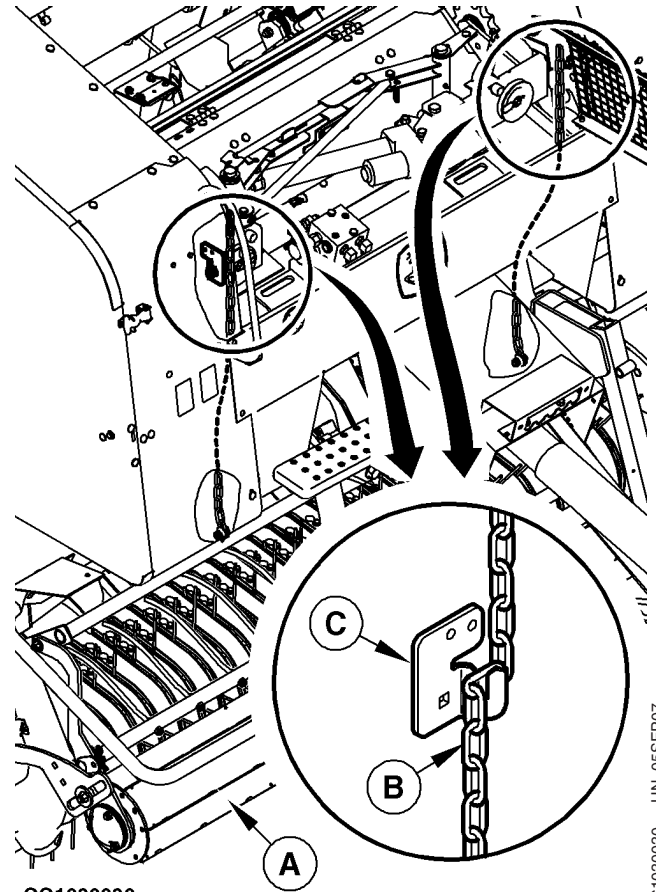
Adjust the pickup roll compressor (A) height as follows:

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

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

5. Fully lower the pickup.
6. Check pickup roll compressor height, repeat procedure if needed.

A—Pickup roll compressor
B—Chain
C—Anchor



CC1030030

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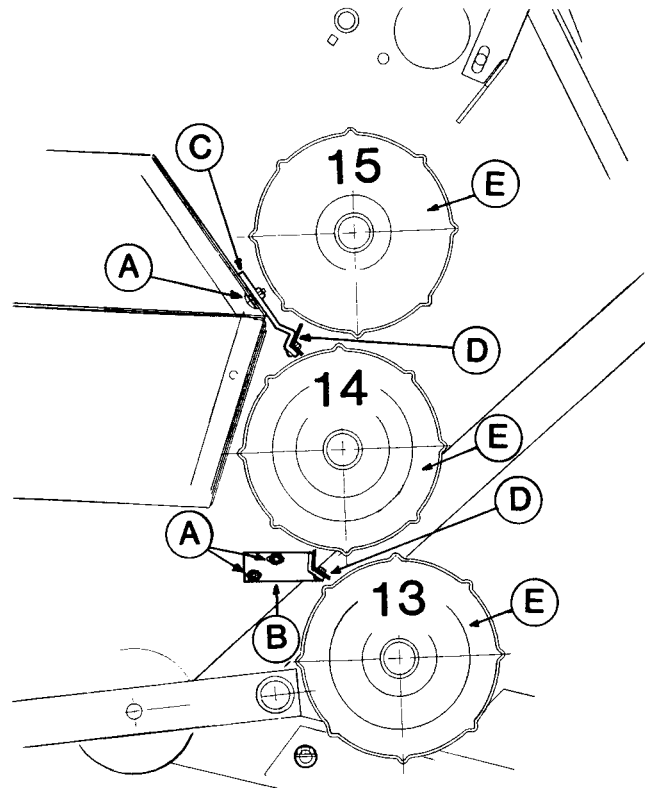
OUC006,0001303 -19-30AUG07-1/1

Adjusting Roll (NR 13 and NR 14) Strippers

1. Loosen attaching screws (A) of stripper supports (B) and (C).
2. Slide supports (B)-(C) so that rubber bands (D) are positioned as close as possible to the rolls (E) without contact.
3. Tighten attaching screws (A).

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

- A—Attaching screw
- B—Support
- C—Support
- D—Rubber band
- E—Roll



CC006734

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CC006734 -UN-22MAR95

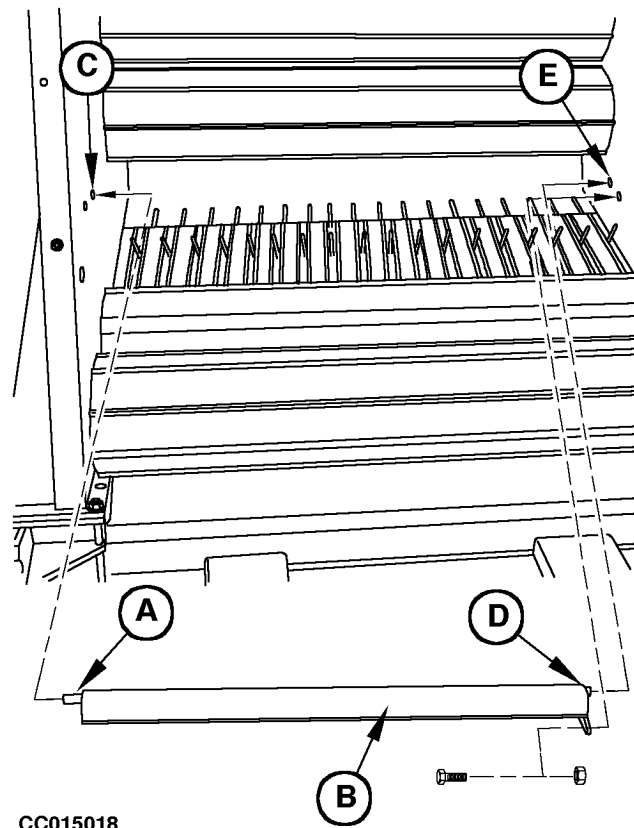
Installing Straw Bar (Baler without Rotary Feeder)

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:

1. Open gate.
2. Lock gate in "open" position. (See "Gate Lock Valve" in this Section).
3. Shut off tractor engine.
4. Insert left-hand pin (A) of bar (B) first into left-hand front fixing hole (C) then slide bar (B) to the right to insert right-hand pin (D) in its fixing hole (E) as shown.
5. Attach bar (B) to the right-hand side of the bale chamber using the existing hardware.

- A—Left-hand pin
- B—Bar
- C—Left-hand fixing holes
- D—Right-hand pin
- E—Right-hand fixing hole



Installing Straw Bar (Baler with Rotary Feeder)

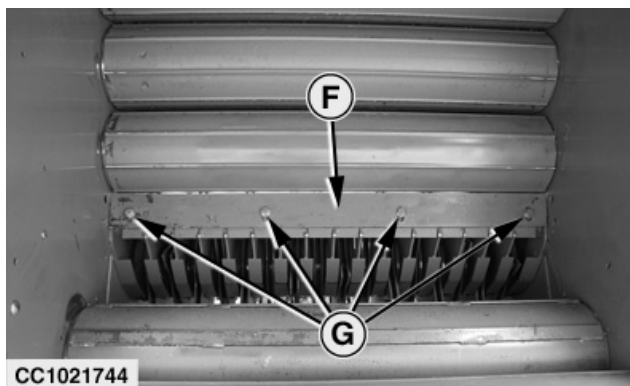
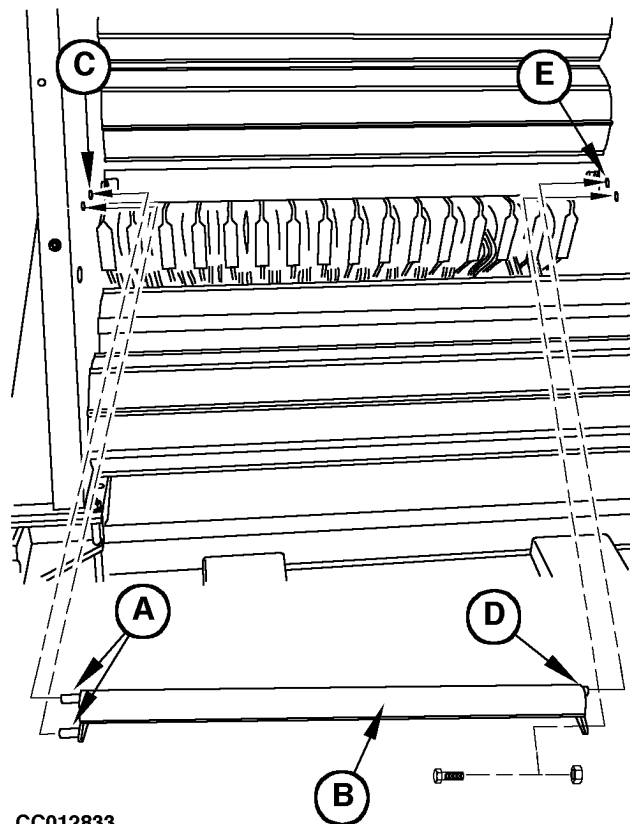
To improve the crop flow between pickup and bale chamber when baling short and brittle straw, the straw bar must be installed on the machine.

Proceed as follows:

1. Open gate.
2. Lock gate in "open" position (see "Gate Lock Valve" in this section).
3. Shut off tractor engine.
4. Remove scraper (F).
5. Insert left-hand pins (A) of bar (B) first into left-hand fixing holes (C) then slide bar (B) to the right to insert right-hand pin (D) in its fixing hole (E) as shown.
6. Attach straw bar (B) to the right-hand side of the bale chamber using the existing hardware.

IMPORTANT: When the crop is not short and brittle, straw bar (B) must be removed and scraper (F) installed. See "Adjusting Roll (NR 13) Scraper" in this section.

- A—Left-hand pins
- B—Bar
- C—Left-hand fixing holes
- D—Right-hand pin
- E—Right-hand fixing hole
- F—Scraper
- G—Fixing screws



Adjusting Roll (NR 13) Scraper

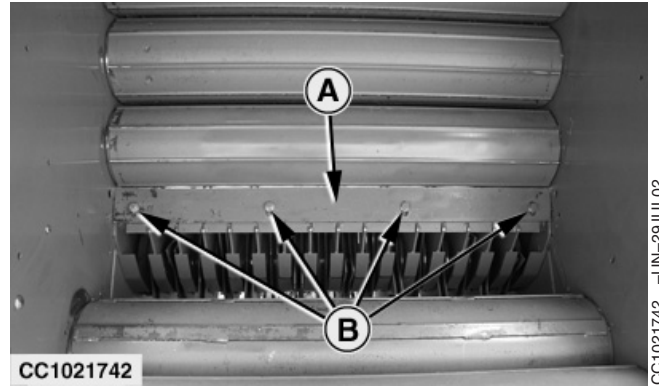
Adjust scraper (A) as follows:

Loosen fixing screws (B) of scraper (A).

Slide scraper (A). Position scraper (A) as close as possible to the roll (NR 13) without contact.

Tighten fixing screws (B).

A—Scraper
B—Fixing screws

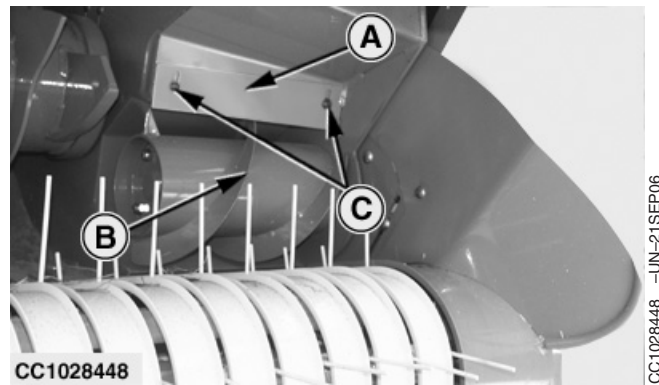


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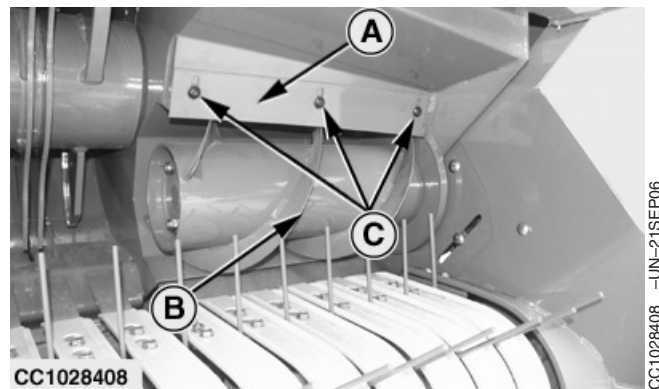
Adjusting Rotary Feeder Pickup Auger Scrapers

1. Position scraper (A) as close as possible to auger (B) avoiding contact.
2. Adjust this clearance using adjusting screws (C).
3. Tighten screws (C).
4. Repeat this process on the other side of the auger.

A—Scraper
B—Auger
C—Screws



2 m (6 ft 7 in.) rotary feeder pickup shown



2.20 m (7 ft 2.6 in.) rotary feeder pickup shown

OUCC006,00010CF -19-02FEB07-1/1

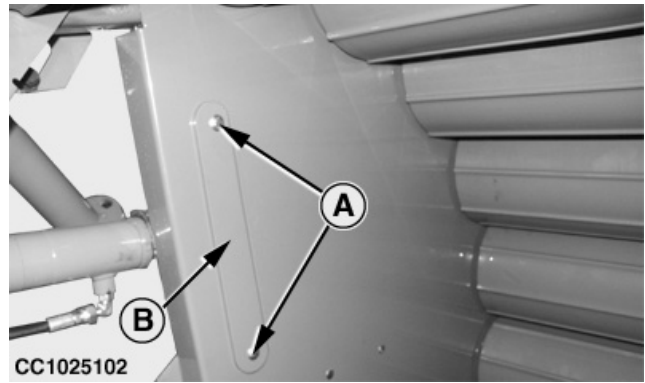
Installing Gate Deflectors (up to S.N. 58999)

The gate deflectors (B) must be installed only if bales stick inside the bale chamber.

NOTE: Do not use gate deflectors (B) with slippery crop like straw.

Install gate deflectors (B) as follows :

1. Open gate.
2. Lock gate in "Open" position (see "Gate Lock Valve" in this section).
3. Engage tractor parking brake, place transmission in "Park", shut off tractor engine and remove key.
4. Fasten gate deflectors (B) with bolts (A) on both sides of gate.



A—Bolts
B—Gate deflector

CC03745,0000C32 -19-23NOV06-1/1

Adjusting Bale Discharging Ramp

1. Park baler on level ground.
2. Open the gate and secure it with safety lock device. Engage tractor parking lock, shut off tractor engine and remove key.
3. Adjust nuts (B) so that bale discharging ramp (A) touches the ground when there is a load on the ramp and the baler is attached to the tractor.

IMPORTANT: Bale discharging ramp (A) should touch the ground when loaded. Failure to do so can result in discharging ramp damage.



A—Bale discharging ramp
B—Nuts

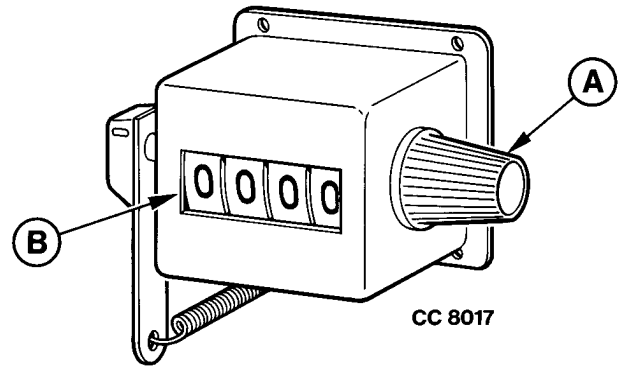
OUC006,00010EB -19-09JAN07-1/1

Resetting Mechanical Bale Counter (If Equipped)

Reset bale counter by means of knob (A).

When resetting, take care to align ciphers "0" (B) perfectly, as otherwise the bale counter will not work properly.

- A—Knob
- B—Ciphers



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CC03745,000028F -19-27AUG01-1/1

Operating ELS Monitor

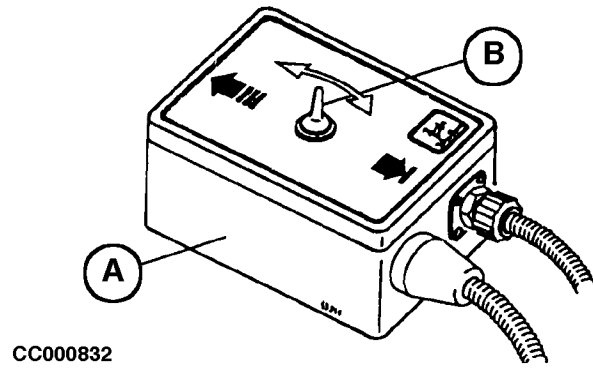
ELS Monitor

The ELS monitor (A) allows the operator to manually control the twine tying by using the switch (B) to distribute the twine across the bale.

Once connected to the baler wiring harness, the ELS monitor (A) is ready to operate.

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

A—ELS monitor
B—Switch



CC000832 -UN-16FEB96

OUCC006.0000717 -19-10JUL02-1/1

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 feeding area while baler is running. The baler feeds material faster than you can release it.

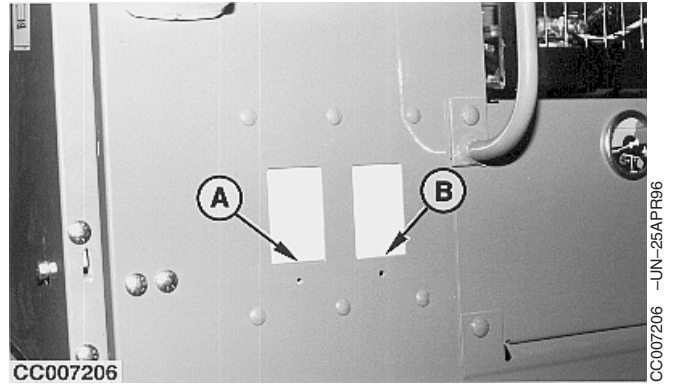
Always disengage PTO and shut off engine before working on the machine.

Prior to forming a bale, prepare the machine for baling as described in "Preparing the Baler" 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) and (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 (See "Feeding the Material" in "Operating the Baler - General Purposes" Section). Glance back and check movement of bale shape indicators (A) and (B).



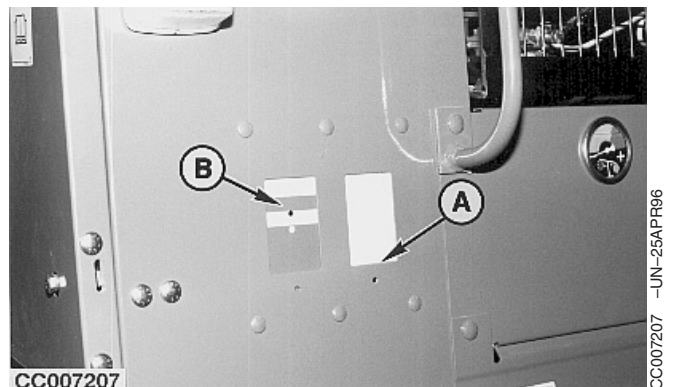
A—Right-hand bale shape indicator
B—Left-hand bale shape indicator

OUCC006,0000719 -19-10JUL02-1/3

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.

A—Left-hand bale shape indicator
B—Right-hand bale shape indicator



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OUCC006,0000719 -19-10JUL02-2/3

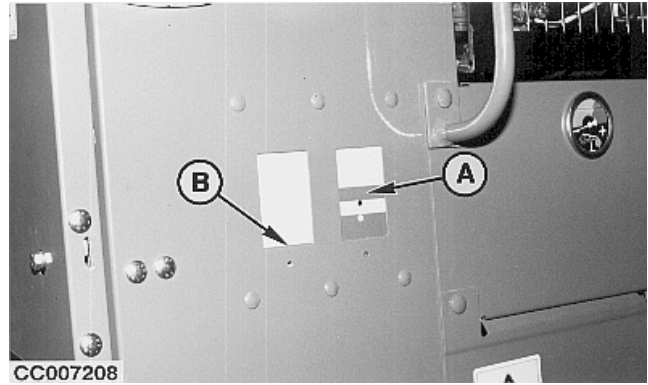
Weaving to the Left:

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.

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.

Continue to feed material up to the desired bale full-size.

When bale full-size is achieved (both bale shape indicators full red) stop forward travel of tractor and tie the bale (see "Tying a Bale" in this section).



A—Left-hand bale shape indicator
B—Right-hand bale shape indicator

Tying a Bale

When full bale size has been reached the bale should be tied.

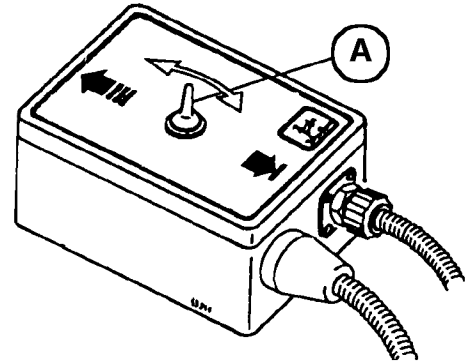
1. Move twine arm by means of manual control switch (A) to the extreme left-hand position.
2. Check pulleys (B) to make sure twines have been caught.
3. Once twines have been caught, stop tractor forward travel.
4. Hold the twine arm in the extreme left-hand position for some seconds to ensure a sufficient number of twine coils at the left end of the bale. This will ensure a stronger tying.
5. 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.
6. 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.
7. 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.

8. While tying the bale, back up 2 to 3 m (8 to 10 ft) (not necessary if baler is equipped with discharging ramp).

Discharge the bale (see "Discharging Bale" in this section).



CC001250

CC001250 -UN-16FEB96



CC007211

CC007211 -UN-25APR96

A—Manual control switch
B—Pulleys

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.



A—Pulleys

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Operating ELC Monitor

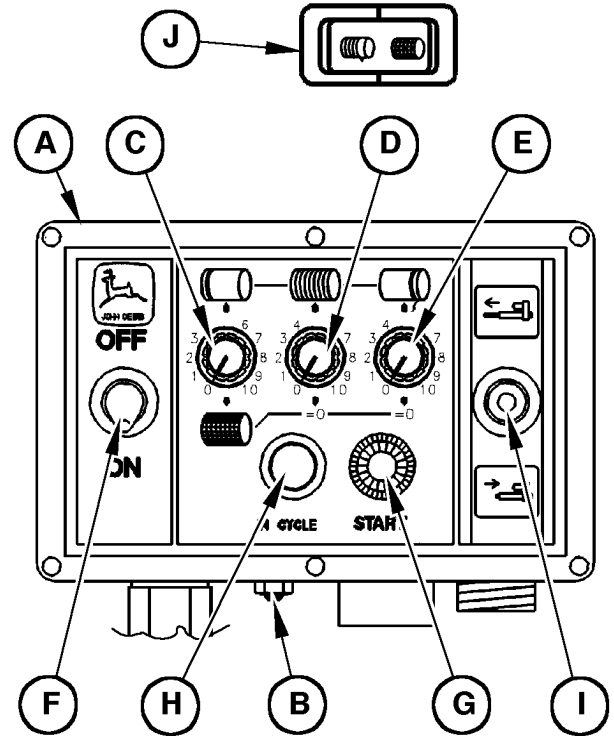
Description of ELC Plus Monitor with Net/Twine Tying Switch on Wiring Harness

ELC Plus monitor allows to control twine or net tying.

Switch (J) allows to select the tying device.

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

- A—Monitor
- B—Adjusting screw
- C—End bale distribution potentiometer; Net tie density potentiometer
- D—Middle twine distribution potentiometer
- E—Re-extension time potentiometer
- F—“ON/OFF” switch
- G—“START” button
- H—“IN CYCLE” light
- I—Manual control switch
- J—Net/Twine tying switch



CC015248

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CC015248 -UN-11FEB89

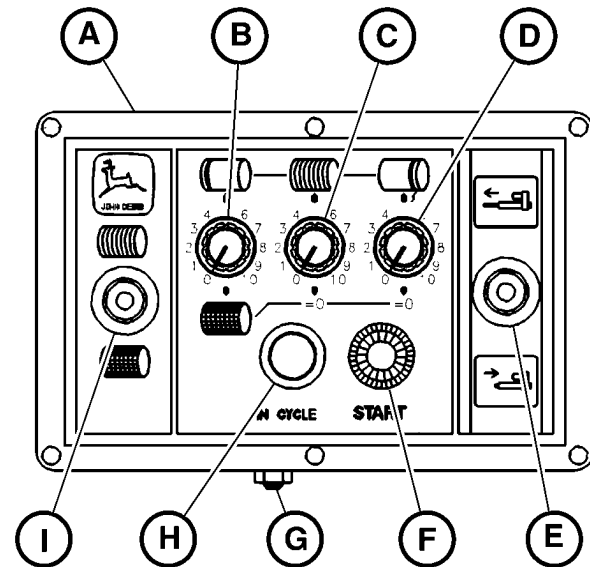
Description of ELC Plus Monitor with Net/Twine Tying Switch on Monitor

ELC Plus monitor allows to control twine or net tying.

Switch (I) allows to select the tying device.

NOTE: The middle position of the switch (I) is used to switch off the monitor.

- A—Monitor
- B—End bale distribution potentiometer; Net tie density potentiometer
- C—Middle twine distribution potentiometer
- D—Re-extension time potentiometer; Actuator positioning potentiometer
- E—Manual control switch
- F—“START” button
- G—Adjusting screw
- H—“IN CYCLE” light
- I—Net/Twine tying switch



CC1021596

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CC1021596 -UN-10JUL02

Operating ELC Monitor in Twine Tying Mode

Move switch "I" to "Twine" symbol to select twine tying mode.

The ELC Plus Monitor allows an automatic or manual twine tying.

Automatic Twine Tying

1. With single arm

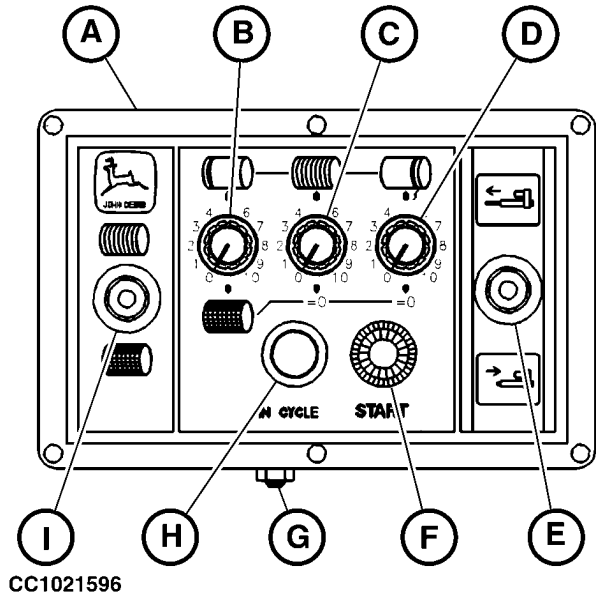
In programmed twine tying mode, the twine arm is extended from the home position to the left-hand side and stops. The twine is caught and applied on the left-hand side of bale. The stop time of twine arm at tying start is adjustable with potentiometer (B).

Then the twine arm is retracted to the right-hand side and twine is applied across the bale. The tying time across the bale is adjustable with potentiometer (C).

The twine arm is retracted up to the re-extension point. The re-extension point is adjustable with the screw (G).

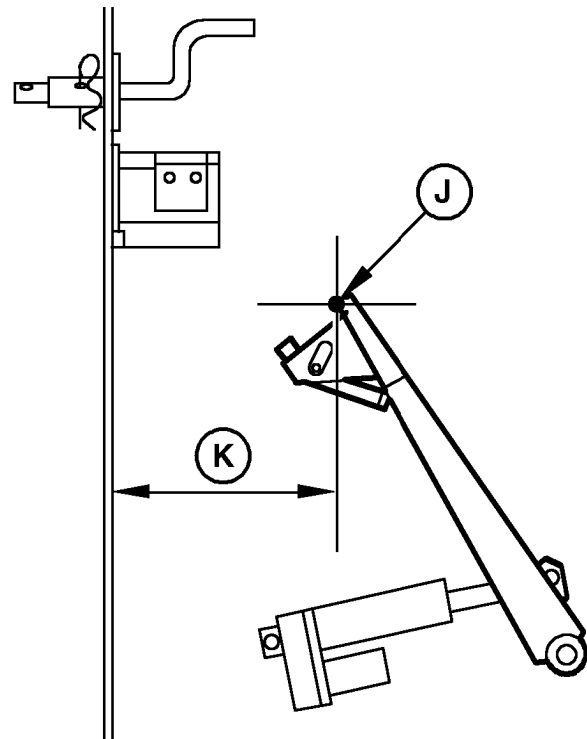
At the re-extension point, the twine arm is extended again towards the center of bale then it is completely retracted to cut the twine. The twine arm re-extension time is adjustable with potentiometer (D).

- A—Monitor
- B—End bale distribution potentiometer
- C—Middle twine distribution potentiometer
- D—Re-extension time potentiometer
- E—Manual control switch
- F—"START" button
- G—Adjusting screw
- H—"IN CYCLE" light
- I—Net/Twine tying switch
- J—Re-extension point
- K—Distance



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CC1021724

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OUCC006,0000721 -19-17JUL02-1/5

Proceed as follows to program the twine tying cycle:

- a. Determine the twine arm re-extension point (J) using adjusting screw (G).

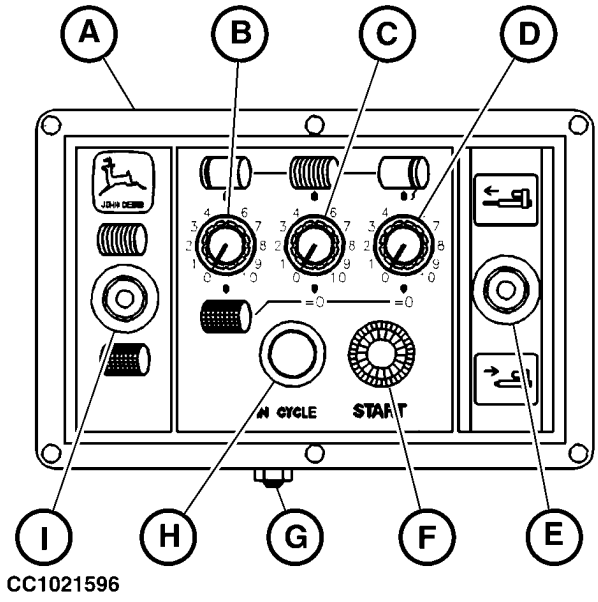
Turn screw (G) clockwise to decrease distance (K) or counterclockwise to increase distance (K) of re-extension point (J) from the side of the bale chamber.

NOTE: The re-extension allows to apply more twine coils at the end of bale tying and help to avoid twine unrolling.

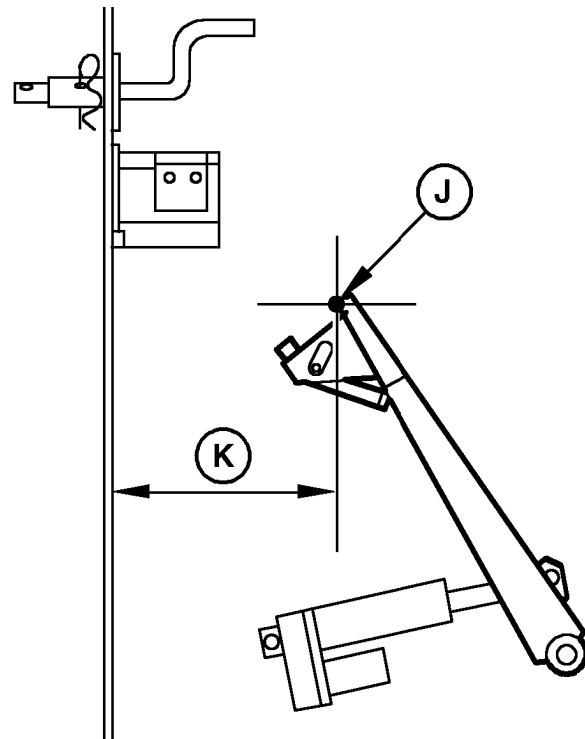
As a basic adjustment, re-extension point should be located 120 mm (4.72 in.) from the side of the bale chamber.

Adjust twine guide or twine clamber when adjusting re-extension point. See "Adjusting Twine Guide (Single Arm Tying)" in "Operating the Baler - General Purposes" Section.

- A—Monitor
- B—End bale distribution potentiometer
- C—Middle twine distribution potentiometer
- D—Re-extension time potentiometer
- E—Manual control switch
- F—"START" button
- G—Adjusting screw
- H—"IN CYCLE" light
- I—Net/Twine tying switch
- J—Re-extension point
- K—Distance



CC1021596



CC1021724

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OUCC006.0000721 -19-17JUL02-2/5

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CC1021724 -UN-29JUL02

- b. Select tying time sequence by potentiometers (B)-(C)-(D) to determine the twine distribution across the bale.

Turn potentiometer (B) clockwise to adjust the stop time of twine arm at tying start from 0.1 to 10 seconds.

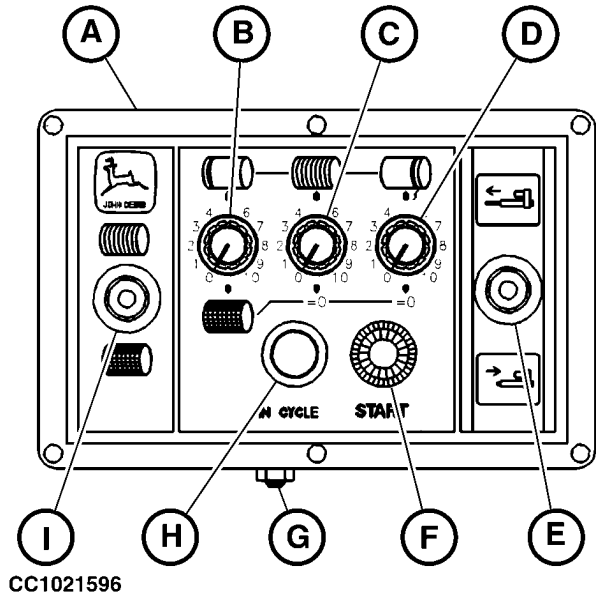
Turn potentiometer (C) clockwise to adjust the tying time across the bale during twine arm retraction from 8 to 70 seconds.

Turn potentiometer (D) clockwise to adjust the twine arm re-extension time from 0 to 5 seconds. Setting of potentiometer (D) to the position "0" will result in no re-extension of the twine arm.

In automatic twine tying mode, the tying cycle starts automatically when the adjusted bale diameter is reached.

NOTE: "START" button (F) allows to start the automatic tying when the bale has not reached the desired bale diameter. See "Starting Manually an Automatic Tying" in this section.

Manual Control switch (E) can be used to interrupt the programmed mode at any time. The manual mode is then ready to be used. See "Tying a Bale Manually" in this section.



- A—Monitor
- B—End bale distribution potentiometer
- C—Middle twine distribution potentiometer
- D—Re-extension time potentiometer
- E—Manual control switch
- F—"START" button
- G—Adjusting screw
- H—"IN CYCLE" light
- I—Net/Twine tying switch

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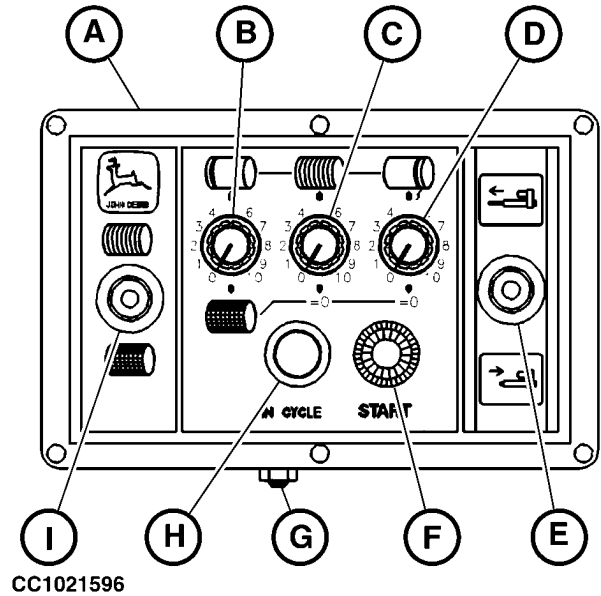
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2. With double arm

- In programmed twine tying mode, the twine arms are extended from the home position to the end bale and stop. The twine is caught and applied on the end bale. The stop time of twine arm at tying start is adjustable with potentiometer (B). Then the twine arms are completely retracted to cut the twine and twine is applied across the bale. The tying time across the bale is adjustable with potentiometer (C).
- Proceed as follows to program the twine tying cycle: Select tying time sequence by potentiometers (B)-(C) to determine the twine distribution across the bale. Turn potentiometer (B) clockwise to adjust the stop time of twine arm at tying start from 0.1 to 10 seconds. Turn potentiometer (C) clockwise to adjust the tying time across the bale during twine arm retraction from 8 to 70 seconds. In automatic twine tying mode, the tying cycle starts automatically when the adjusted bale diameter is reached.

NOTE: "START" button (F) allows to start the automatic tying when the bale has not reached the desired bale diameter. See "Starting Manually an Automatic Tying" in this section.

Manual Control switch (E) can be used to interrupt the programmed mode at any time. The manual mode is then ready to be used. See "Tying a Bale Manually" in this section.



- A—Monitor
- B—End bale distribution potentiometer
- C—Middle twine distribution potentiometer
- D—Re-extension time potentiometer
- E—Manual control switch
- F—"START" button
- G—Adjusting screw
- H—"IN CYCLE" light
- I—Net/Twine tying switch

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OUCC006,0000721 -19-17JUL02-4/5

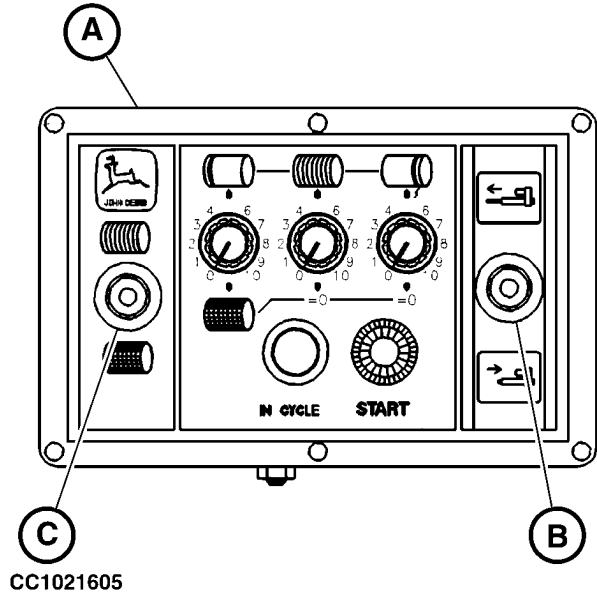
CC1021596 -UN-10JUL02

Manual Twine Tying

Use the manual control switch (B) to distribute the twine across the bale. See "Tying a Bale Manually" in this section.

IMPORTANT: Monitor is protected by a circuit breaker. If control switch (B) 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.

- A—Monitor
- B—Manual control switch
- C—Net/Twine tying switch



CC1021605 -UN-10JUL02

OUCC006.0000721 -19-17JUL02-5/5

Operating ELC Plus Monitor in Net Tying Mode

Move switch “I” to “Net” symbol to select net tying mode.

The ELC Plus Monitor allows an automatic or manual net tying.

Automatic Net Tying

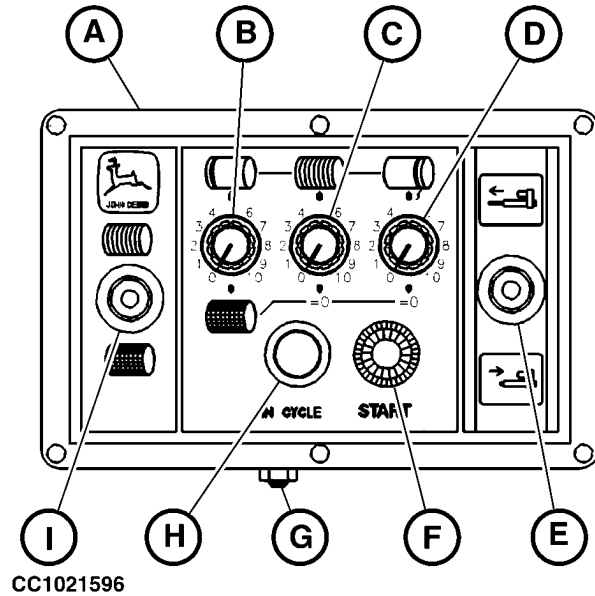
Turn potentiometer (B) to set the number of net turns as follows:

Potentiometer position	Number of net 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 (C) and (D) to “0” position when using monitor in net tying mode. Failure to do so will result in erratic tying cycle.

NOTE: “START” button (F) can be pressed to activate the programmed mode if tying cycle requires to be started before the bale has reached the desired diameter. See “Starting Manually an Automatic Tying” in this section.

Manual Control switch (E) can be used to interrupt the programmed mode at any time. The manual mode is then ready to be used. See “Tying a Bale Manually” in this section.



- A—Monitor
- B—Net tie density potentiometer
- C—Middle twine distribution potentiometer
- D—Actuator positioning potentiometer
- E—Manual control switch
- F—“START” button
- G—Adjusting screw
- H—“IN CYCLE” light
- I—Net/Twine tying switch

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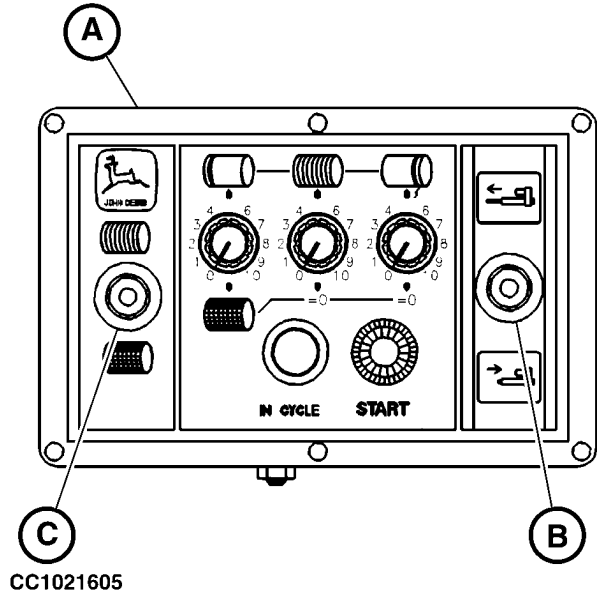
OUCC006.0000722 -19-17JUL02-1/2

Manual Net Tying

Use the manual control switch (B) to adjust the desired number of net turns (see "Tying a Bale Manually" in this section).

IMPORTANT: Monitor is protected by a circuit breaker. If control switch (B) 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.

- A—Monitor
- B—Manual control switch
- C—Net/Twine tying switch



CC1021605 -UN-10JUL02

OUCC006,0000722 -19-17JUL02-2/2

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.

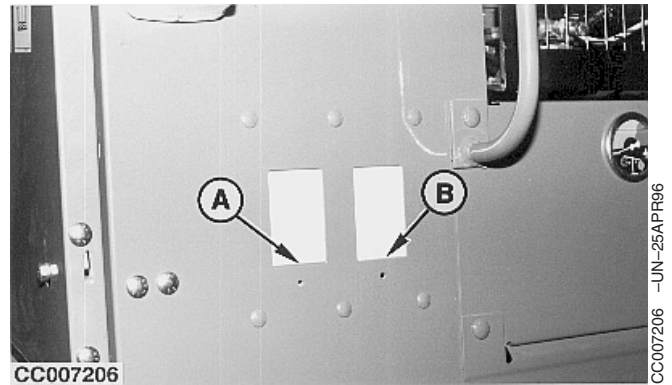
Set the monitor to the desired values under the appropriate tying mode (twine or net). See “Operating ELC Plus Monitor in Twine/Net Tying Mode” in this section.

Adjust desired bale full-size. See “Adjusting Bale Full-Size” in “Operating the Baler - General Purposes” 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 “Operating the Baler - General Purposes” Section. Glance back and check movement of bale shape indicators (A)-(B).



A—Right-hand bale shape indicator
B—Left-hand bale shape indicator

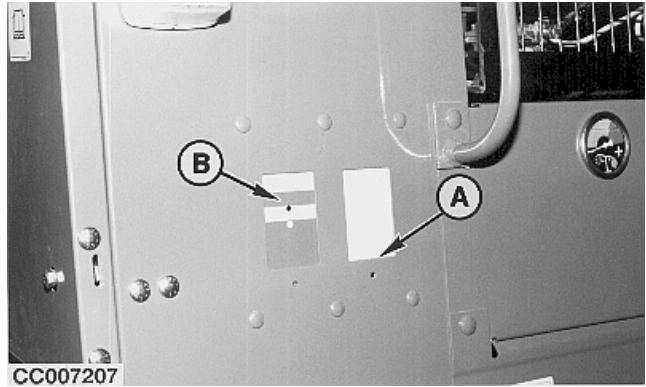
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OUCC006,0000738 -19-01AUG02-1/3

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.

- A—Left-hand bale shape indicator
- B—Right-hand bale shape indicator



OUCC006,0000738 -19-01AUG02-2/3

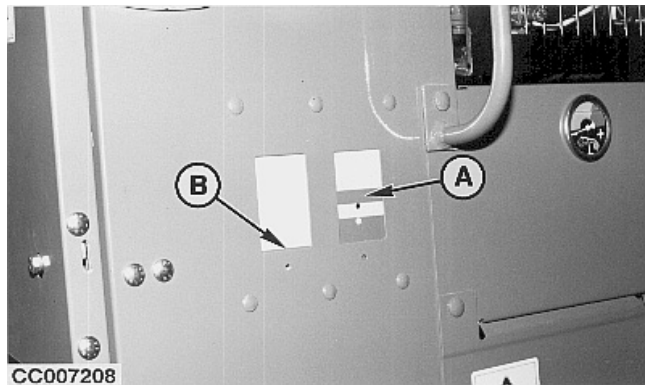
Weaving to the left:

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 tying cycle is starting.

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.

NOTE: If tying cycle must be started before that desired bale full-size is reached, tie the bale as described in "Starting Manually an Automatic Tying Cycle" or "Tying a Bale Manually" in this section.



- A—Left-hand bale shape indicator
- B—Right-hand bale shape indicator

OUCC006,0000738 -19-01AUG02-3/3

Automatic Start of Tying Cycle

IMPORTANT: When bale reaches the preset size for the start of the tying cycle, a sound alarm is emitted. If a second sound alarm is heard, this means that the bale is now oversized and that tractor forward travel should be stopped immediately as baler damage could occur.

In automatic tying, the tying cycle starts automatically when the adjusted bale diameter is reached.

When the tying cycle starts, 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).

Twine Tying

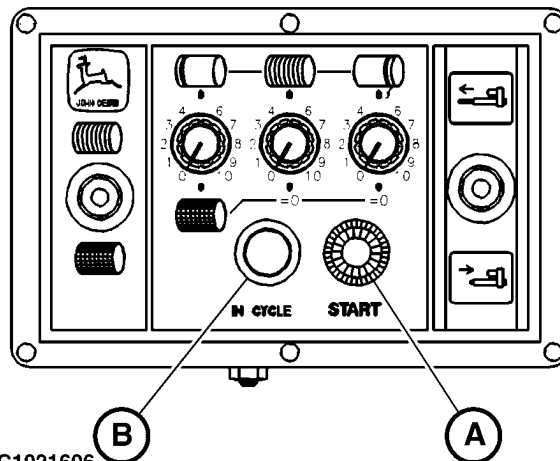
Operator should glance back and check that pulleys (C) are rotating to make sure that twines have been caught.

During tying 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.

Net Tying

During tying 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 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 tying cycle using "START" button (A) or check net roll.



CC1021606

CC1021606 -UN-10JUL02



CC007505

CC007505 -UN-25APR96

- A—"START" button
- B—"IN CYCLE" light
- C—Pulleys

Starting Manually an Automatic Tying Cycle

NOTE: Tying cycle cannot be automatically re-started as long as light (B) "IN CYCLE" is flashing, but it can be manually re-started at any time.

If the desired bale diameter is below the preset diameter, push "START" button (A) to start manually an automatic tying cycle.

When the tying cycle starts, 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).

Twine Tying

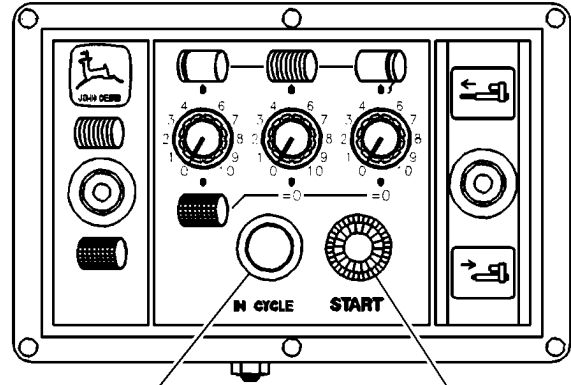
Operator should glance back and check that pulleys (C) are rotating to make sure that twines have been caught.

During tying 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.

Net Tying

During tying 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 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 tying cycle using "START" button (A) or check net roll.



CC1021606

CC1021606 -UN-10JUL02



- A—"START" button
- B—"IN CYCLE" light
- C—Pulleys

OUC006,0000724 -19-18JUL02-1/1

Tying a Bale Manually

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 after thermic fuse resets.

Twine Tying

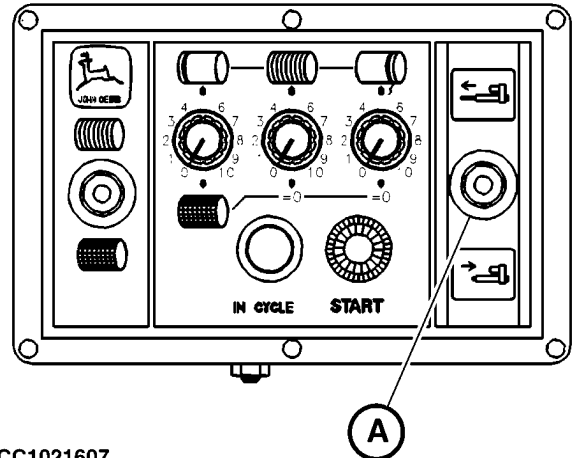
1. With single arm

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. If not, drive forward slightly to feed some crop that will pull the twines. Hold the twine arm in this position for some seconds to ensure a sufficient number of twine coils at the right end of the bale. This will ensure a stronger tying.

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.



CC1021607



CC007211

A—Manual control switch
B—Pulleys

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CC03745,0000429 -19-15OCT02-1/3

CC1021607 -UN-18JUL02

CC007211 -UN-25APR96

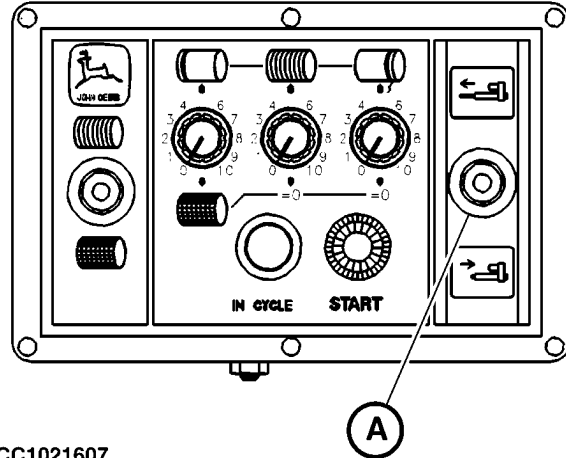
2. With double arm

Move twine arms by means of manual control switch (A) to the end of the bale. Check pulleys (B) to make sure twines have been caught. If not, drive forward slightly to feed some crop that will pull the twines. Hold the twine arm in this position for some seconds to ensure a sufficient number of twine coils at the end of the bale. This will ensure a stronger tying.

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.

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

A—Manual control switch
B—Pulleys



CC1021607



CC007211

CC1021607 -UN-18JUL02

CC007211 -UN-25APR96

CC03745,0000429 -19-15OCT02-2/3

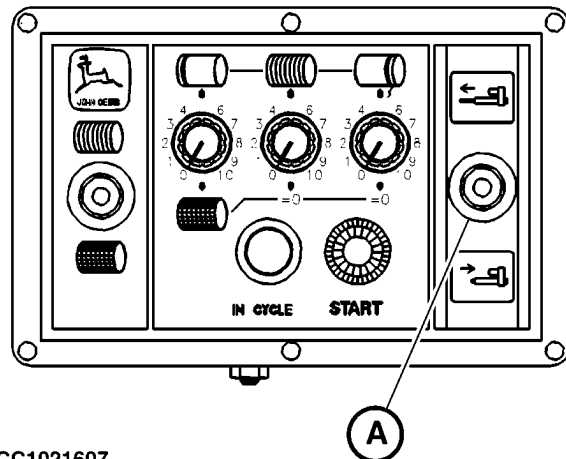
Net Tying

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 turns.

NOTE: Holding the actuator extended between 3 and 10 seconds provides between 1.5 and 4 net turns.

Fully retract net actuator to cut the net.

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



CC1021607

A—Manual control switch

CC1021607 -UN-18JUL02

CC03745,0000429 -19-15OCT02-3/3

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.

Back up 2 to 3 m (8 to 10 ft) (not necessary if baler is equipped with discharging ramp).

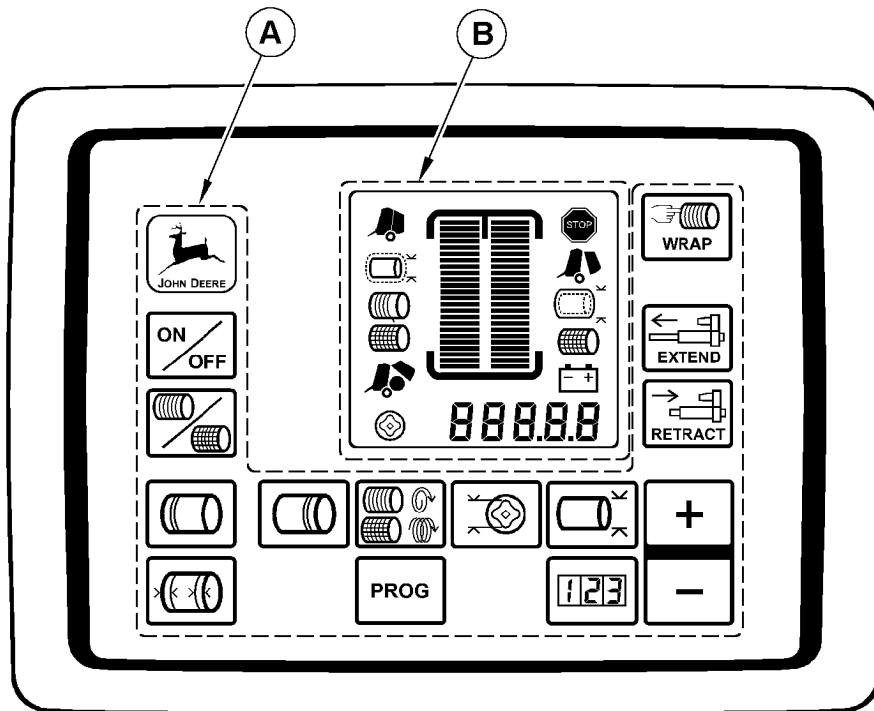
Raise gate.

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



Operating BaleTrak Control

BaleTrak Monitor



CC-1018839

CC-1018839 -UN-18/JAN01

A—Keyboard

B—LCD screen

The BALETRAK monitor provides the operator with information to help making well-shaped bales and automatically operates the tying system.

The monitor settings can be tailored to suit specific requirements. In most cases, adjustments can be made from the tractor seat.

The system is preset, functional, and ready to use. It is recommended to operate the baler briefly with the factory settings, to be familiar with programmed settings before tailoring the settings.

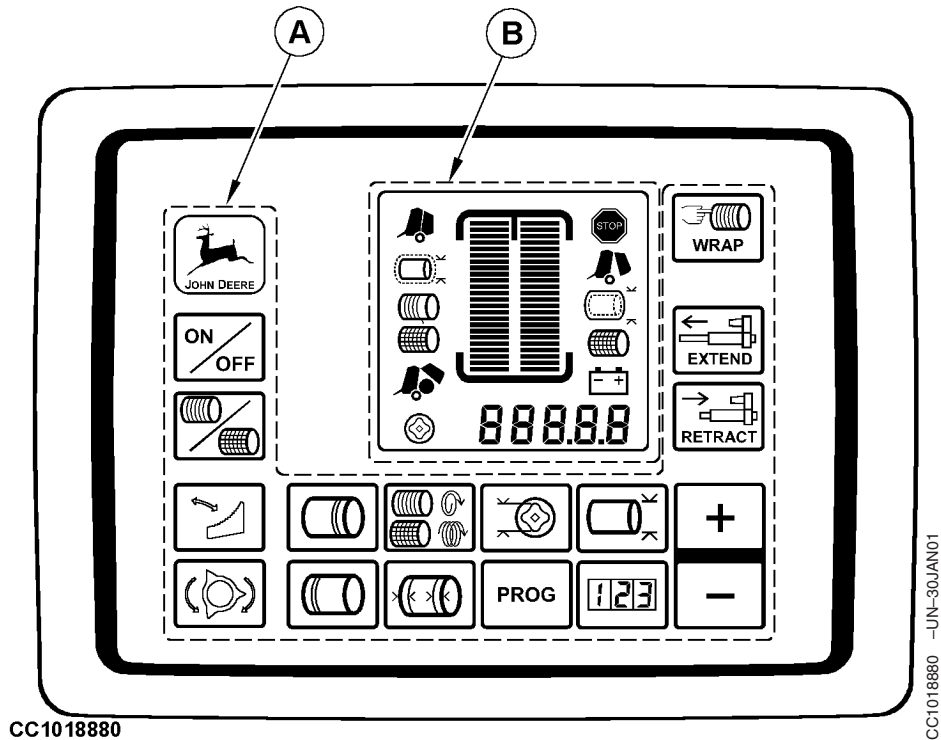
The BALETRAK monitor also reports alarms or malfunctions. The monitor allows to check and calibrate baler electrical components.

The BALETRAK monitor includes:

- A function keyboard (A) with sensitive keys (See “BaleTrak Monitor Keyboard Description” in this section).
- A Liquid Crystal Display (LCD) screen (B) (See “LCD Screen Description” in this section).

OUC006,000073B -19-01AUG02-1/1

BaleTrak Plus Monitor



A—Keyboard

B—LCD screen

The BaleTrak Plus monitor provides the operator with information to help making well-shaped bales and automatically operates the tying system, the rotary feeder and the precutter device (if equipped).

The monitor settings can be tailored to suit specific requirements. In most cases, adjustments can be made from the tractor seat.

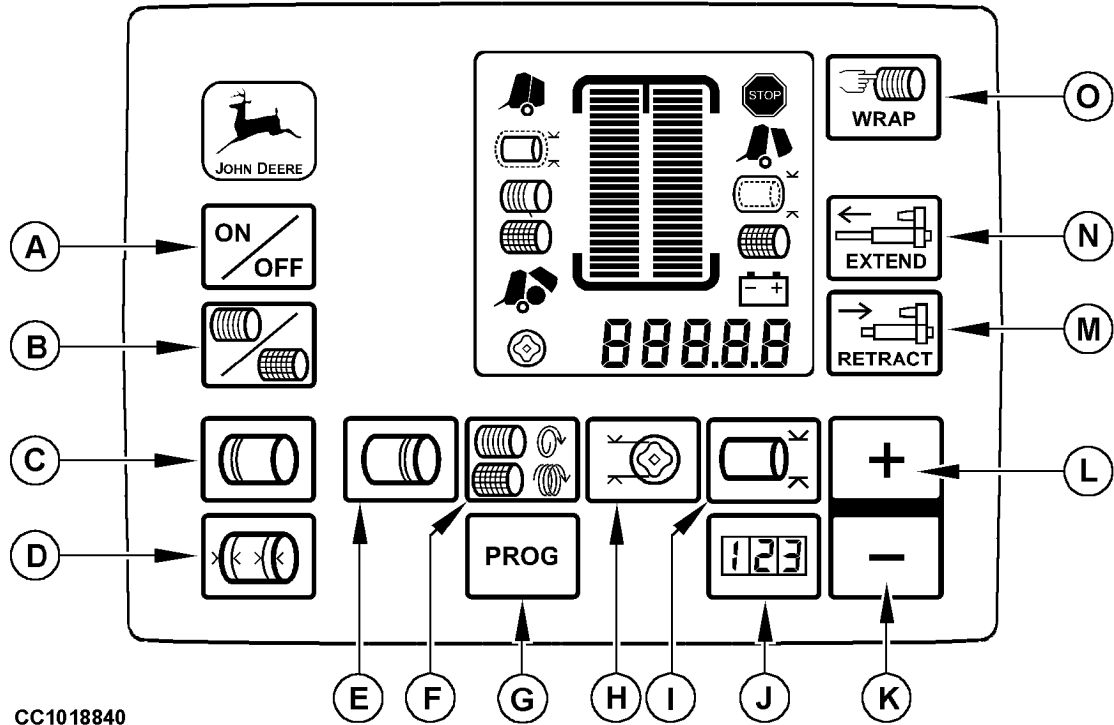
The system is preset, functional, and ready to use. It is recommended to operate the baler briefly with the factory settings, to be familiar with programmed settings before tailoring the settings.

The BaleTrak Plus monitor also reports alarms or malfunctions. The monitor allows to check and calibrate baler electrical components.

The BaleTrak Plus monitor includes:

- A function keyboard (A) with sensitive keys (See "BaleTrak Plus Monitor Keyboard Description" in this section).
- A Liquid Crystal Display (LCD) screen (B) (See "LCD Screen Description" in this section).

BaleTrak Monitor Keyboard Description



CC1018840

CC1018840 -UN-19/JAN01

- | | | | |
|--|--------------------------------------|-----------------|-------------------------------|
| A—ON/OFF key | E—Number of twine coils at tying end | H—Not activated | L—Plus key |
| B—Twine or net tying key | F—Twine spacing/Number of net turns | I—Not activated | M—Retract key |
| C—Number of twine coils at tying start | G—Program key | J—Bale counters | N—Extend key |
| D—End tying distance | | K—Minus key | O—Manual start of tying cycle |

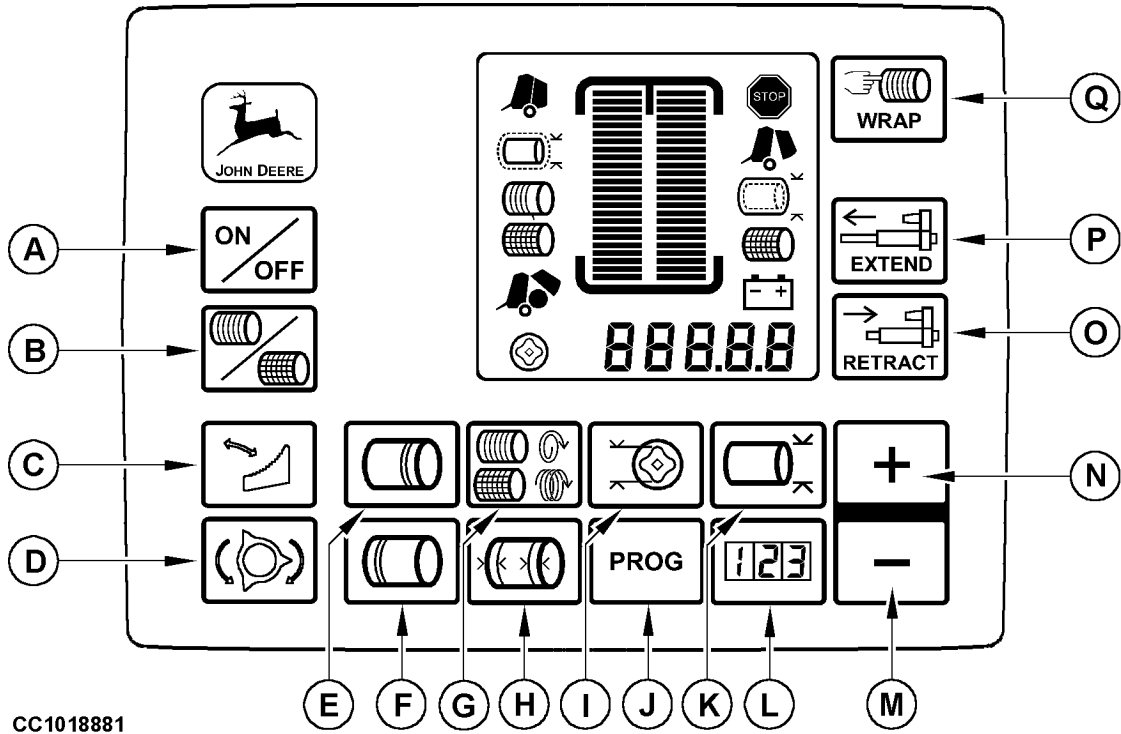
NOTE: When any key is pressed, buzzer will beep.

A long pressure on "PLUS" or "MINUS" key accelerates value change.

A short pressure on "PLUS" or "MINUS" key will increase or decrease selected value.

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BaleTrak Plus Monitor Keyboard Description



CC1018881

CC1018881 -UN-30JAN01

- | | | | |
|--------------------------------------|--|-----------------|-------------------------------|
| A—ON/OFF key | F—Number of twine coils at tying start | I—Not activated | N—Plus key |
| B—Twine or net tying key | G—Twine spacing/Number of net turns | J—Program key | O—Retract key |
| C—Precutter knife key (if equipped) | H—Tying end distance | K—Not activated | P—Extend key |
| D—Rotary feeder reverse key | | L—Bale counters | Q—Manual start of tying cycle |
| E—Number of twine coils at tying end | | M—Minus key | |

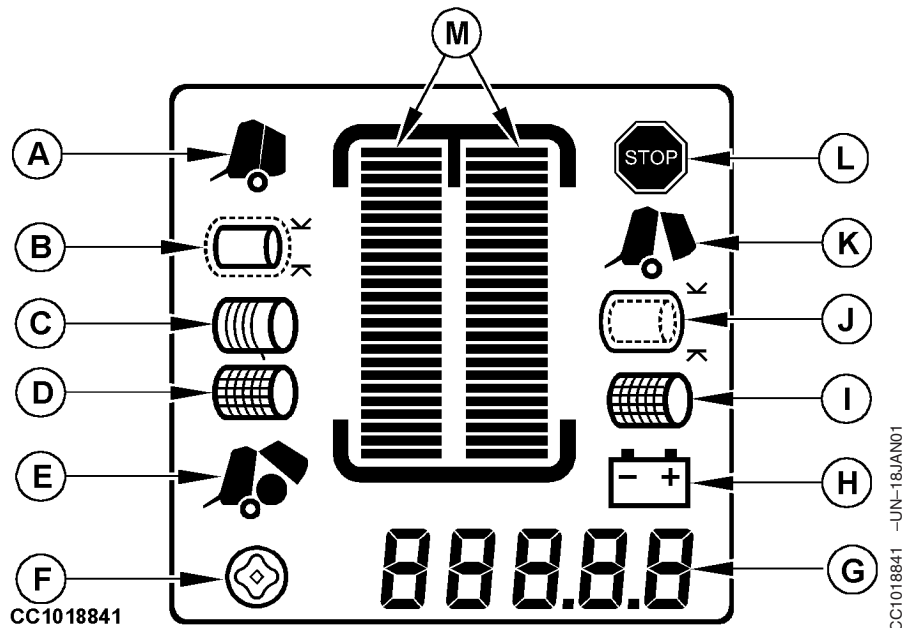
NOTE: When any key is pressed, buzzer will beep.

A short pressure on "PLUS" or "MINUS" key will increase or decrease selected value.

A long pressure on "PLUS" or "MINUS" key accelerates value change.

OUC006,0001236 -19-04DEC06-1/1

LCD Screen Description



A—Gate closed
 B—Near full
 C—Twine tying
 D—Net tying

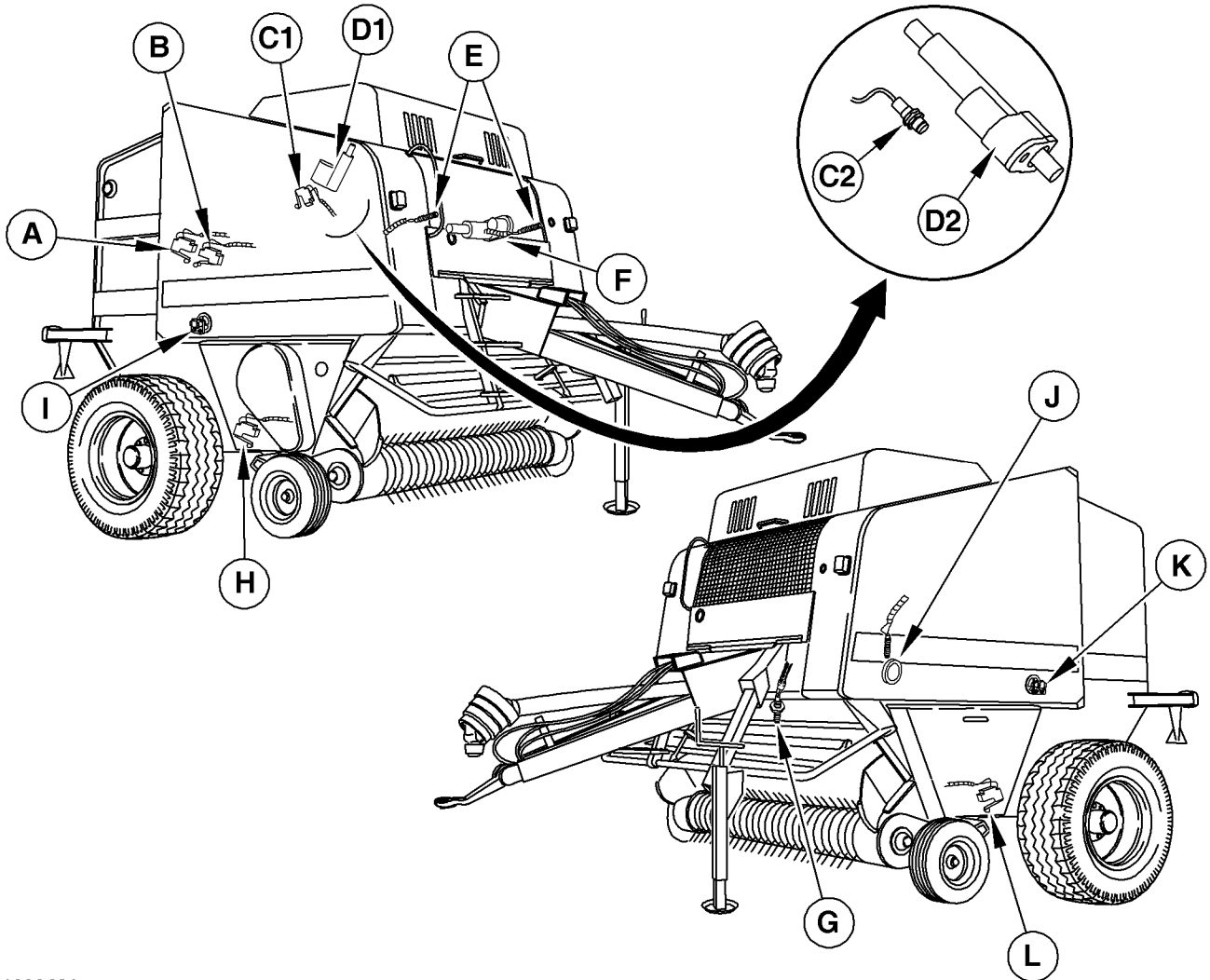
E—Ejecting bale
 F—Soft core ON
 G—Digital display (bale size,
 bale counter...)

H—Battery alarm
 I—Net tying alarm
 J—Oversize alarm
 K—Open gate alarm

L—Stop indicator
 M—Bale shape indicators (if
 equipped)

OUCC006,00010E6 -19-04JUL06-1/1

Components Locations



CC1028461

A—Full size bale switch
 B—Oversize/gate switch
 C1—Net cut switch (baler with standard net tying)
 C2—Net cut sensor (baler with CoverEdge net tying)

D1—Net actuator (baler with standard net tying)
 D2—Net actuator (baler with CoverEdge net tying)
 E—Twine pulley sensors

F—Twine actuator
 G—Rotary feeder reverse sensor
 H—Right knife sensor
 I—Right bale shape potentiometer

J—Baler rotation speed sensor
 K—Left bale shape potentiometer
 L—Left knife sensor

CC1028461 -UN-22DEC06

OUCC006.0001259 -19-25SEP07-1/1

Switching On or Off the Monitor

Press "ON/OFF" key (A) to switch on the monitor.

During the power-up:

- All the pictograms are displayed.
- The buzzer beeps for one second.
- Then, the baler model (B) is displayed for one second.

NOTE: The baler model is followed by a "C" if the baler is equipped with a precutter device.

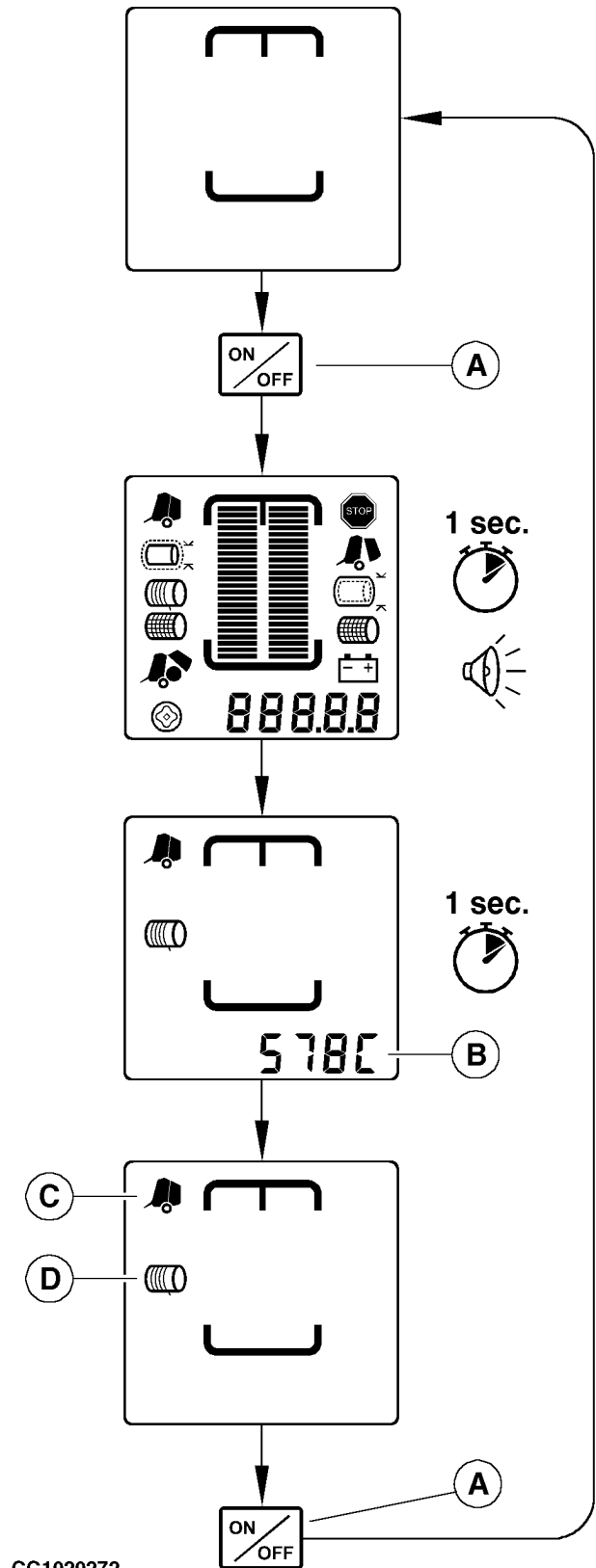
After the power-up sequence, the monitor enters in normal display mode and the closed gate pictogram (C) and the net or twine tying pictogram (D) are displayed.

To switch off the monitor, press and release "ON/OFF" key (A), OFF is displayed for one second then the monitor is off.

NOTE: After 30 minutes without any operation, the monitor will power off by itself.

If the voltage is higher than 16 V during 5 seconds, the monitor will automatically power off.

- A—On/off key
- B—Baler model
- C—Closed gate pictogram
- D—Twine tying pictogram



CC1020272

CC1020272 -UN-30JUL01

Selecting Tying System

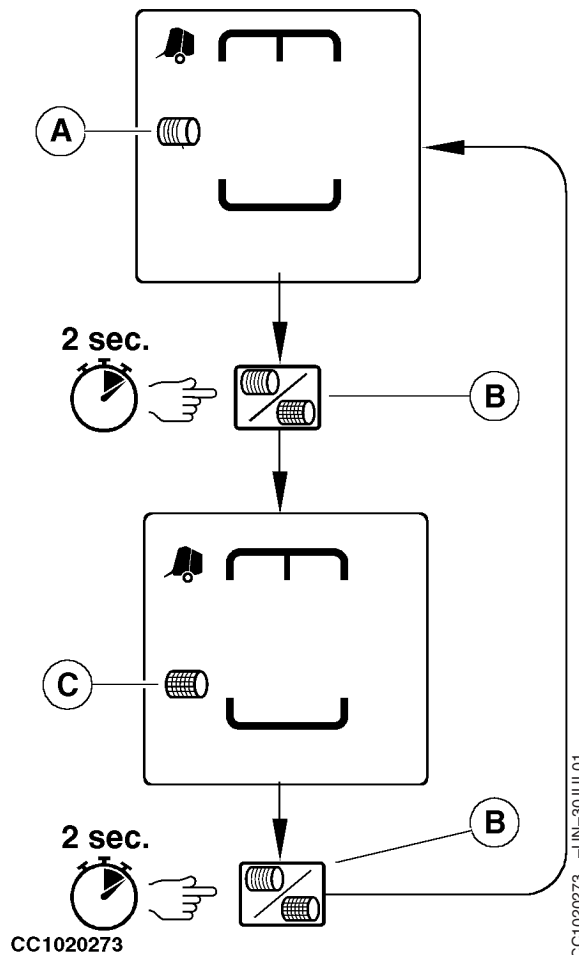
Press and hold "TWINE OR NET TYING" key (B) for about 2 seconds to switch from net to twine tying or from twine to net tying.

When the twine tying is selected, the twine tying pictogram (A) is displayed.

When the net tying is selected, the net tying pictogram (C) is displayed.

NOTE: If a pressure on "TWINE OR NET TYING" key does not select the desired tying system, see your John Deere dealer.

- A—Twine tying pictogram
- B—Twine/net tying key
- C—Net tying pictogram



OUCC006,0000741 -19-01AUG02-1/1

Selecting Tying Program

The BaleTrak monitor includes five automatic tying programs depending on crop conditions:

- Program 1 is for unchopped silage.
- Program 2 is for straw.
- Program 3 is for hay.
- Program 4 is for chopped silage.
- Program 5 called "Eco" allows to reduce tying cost.

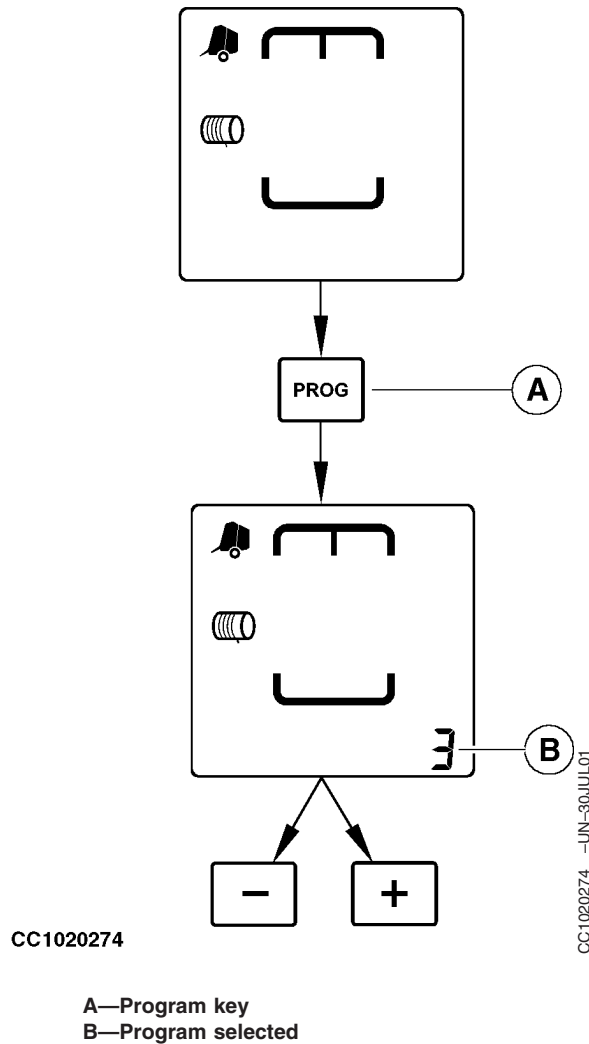
Press "PROGRAM" key (A). The number of the last program selected (B) is displayed for five seconds.

While the program number is displayed, press "PLUS" or "MINUS" key to select the desired program from 1 to 5.

The last program displayed is stored after five seconds.

Tying Programs

The following tables show the factory settings of each tying program.



A—Program key
B—Program selected

Net Tying Programs					
	Program 1 (Silage)	Program 2 (Straw)	Program 3 (Hay)	Program 4 (Chopped silage)	Program 5 ("Eco")
Net Density	2	3	2.5	3	2
Number of Turns	2	3	2.5	3	2

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OUCC006.0000742 -19-01AUG02-1/2

Operating BaleTrak Control

Twine Tying Programs					
	Program 1 (Silage)	Program 2 (Straw)	Program 3 (Hay)	Program 4 (Chopped silage)	Program 5 ("Eco")
Number of Twine Turns on Right-Hand Side	4 turns	3 turns	2 turns	3 turns	2 turns
Number of Twine Turns on Left-Hand Side	4 turns	3 turns	2 turns	3 turns	2 turns
Twine Spacing	5 cm (2 in.)	10 cm (4 in.)	5 cm (2 in.)	2 cm (0.8 in.)	15 cm (6 in.)
Distance of Tying Ends	8 cm (3 in.)	10 cm (4 in.)	8 cm (3 in.)	8 cm (3 in.)	8 cm (3 in.)

Each program can be customized depending on the crop condition. See “Setting Twine Tying” in this section.

Modifications made in program 5 are permanently saved in the monitor memory.

Modifications made in programs 1, 2, 3 or 4 are stored as long as the program is selected.

Switching the monitor on and off will not affect customized setting in the selected program.

When switching from program “X” to another program, the customized setting in program “X” is lost and the program “X” will return to factory parameters.

To reset all programs to factory parameters, see “Channel 001: Reset to Factory Default Settings” in “BaleTrak Monitor Service” section.

IMPORTANT: Three other specific twine tying programs are available in diagnostic mode:

- **Dry straw twine tying program. Channel 002.**
- **Re-extension twine tying program. Channel 003.**
- **Cinch Tying. Channel 004.**

See “BaleTrak Monitor Service” section.

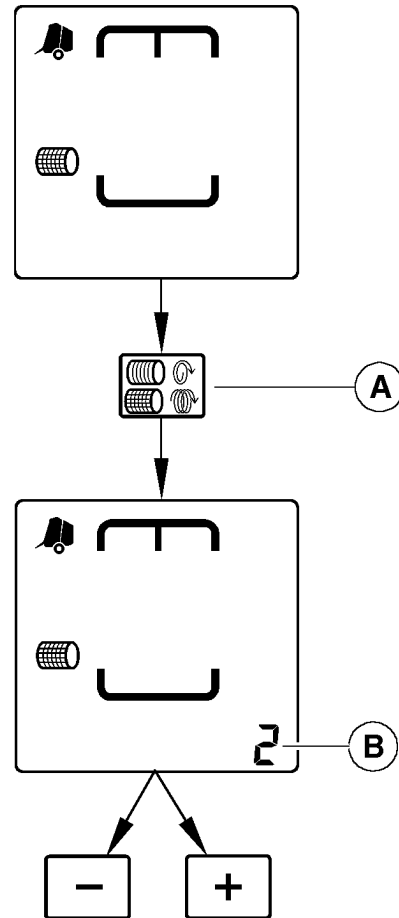
Setting Net Tying Density

Press “TWINE SPACING/NUMBER OF NET TURNS” key (A). The number of net turns (B) is displayed for five seconds.

While the number of net turns is displayed, press “PLUS” or “MINUS” key to increase or decrease the number of turns from 1.5 to 5.

The net turn number displayed is stored after five seconds.

- A—Twine/net density key
- B—Number of net turns



CC1020275

CC1020275 -JUN-30JUL01

OUC006,0000743 -19-01AUG02-1/1

Setting Twine Tying

Setting Twine spacing

Press "TWINE SPACING/NUMBER OF NET TURNS" key (A). The space between coils (B) is displayed for five seconds.

While the space between coils is displayed, press "PLUS" or "MINUS" key to increase or decrease the space from 1 to 15 cm (0.5 to 6 in.).

The twine spacing displayed is stored after five seconds.

1. With double arm twine tying

The twine spacing displayed on the monitor corresponds to the space between coils on the bale.

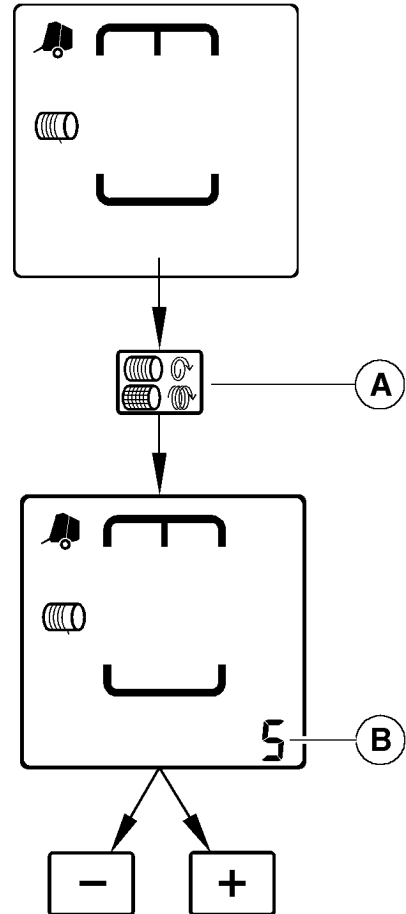
2. With single arm and two twines

The twine spacing displayed on the monitor must be the same as the space (D) between the two tubes of the twine arm (C) (see "Adjusting Twine Arm Tube Spacing" in "Operating the Baler - General Purposes" Section).

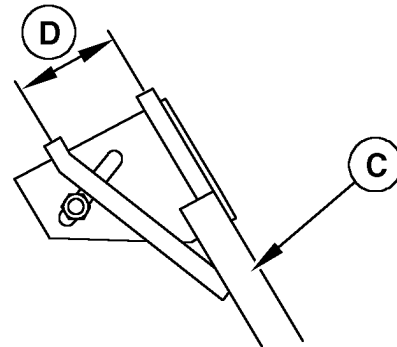
3. With single arm and one twine

The twine spacing displayed on the monitor is given for tying with two twines. When using only one twine, real twine spacing will be the double of the value displayed.

- A—Twine/net density key
- B—Space between coils
- C—Twine arm
- D—Space



CC1020276



CC1020356

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OUCC006,00010F3 -19-28JUL06-1/7

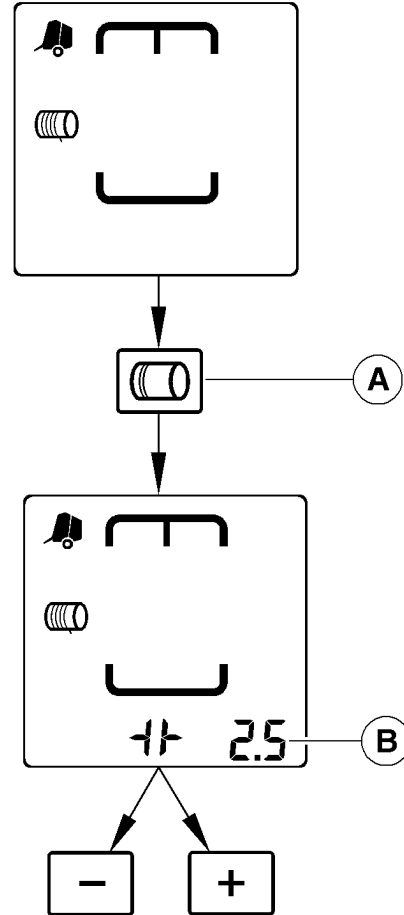
Setting Number of Twine Coils at Tying Start with Double Arm Twine Tying

Press "NUMBER OF COILS AT TYING START" key (A). The number of twine coils at tying start (B) is displayed for five seconds.

While the number of twine coils at tying start is displayed, press "PLUS" or "MINUS" key to increase or decrease the number of coils from 0 to 5.

The number of twine coils at tying start displayed is stored after five seconds.

- A—Tying start key
- B—Number of twine coils at tying start



CC1028466

CC1028466 -UN-21SEP06

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OUC006,00010F3 -19-28JUL06-2/7

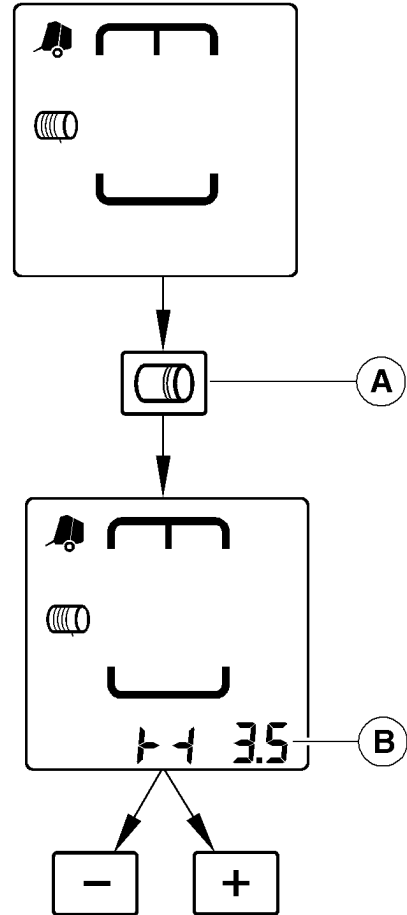
Setting Number of Twine Coils at Tying End with Double Arm Twine Tying

Press "NUMBER OF COILS AT TYING END" key (A). The number of twine coils at tying end (B) is displayed for five seconds.

While the number of twine coils at tying end is displayed, press "PLUS" or "MINUS" key to increase or decrease the number of coils from 0.5 to 5.

The number of twine coils at tying end displayed is stored after five seconds.

- A—Tying end key
- B—Number of twine coils at tying end



CC1028467

CC1028467 -JUN-21SEP06

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OUCC006,00010F3 -19-28JUL06-3/7

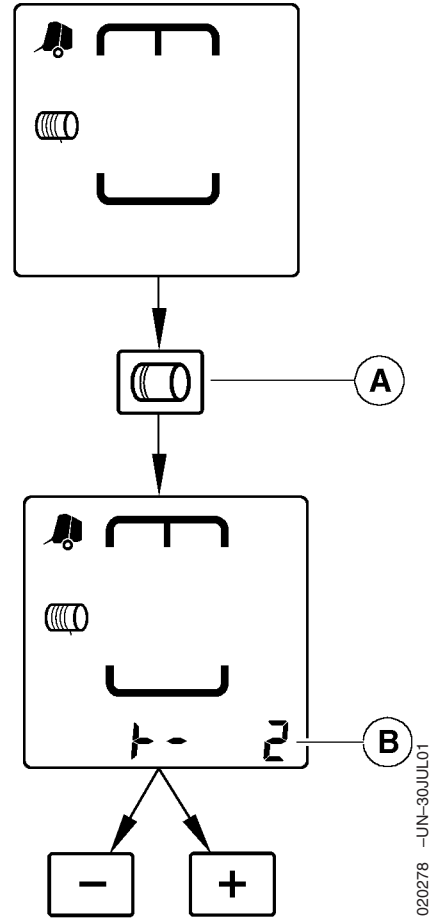
Setting Number of Twine Coils at Tying Start with Single Arm Twine Tying

Press "NUMBER OF COILS AT TYING START" key (A). The number of twine coils at tying start (B) is displayed for five seconds.

While the number of twine coils at tying start is displayed, press "PLUS" or "MINUS" key to increase or decrease the number of coils from 0 to 5.

The number of twine coils at tying start displayed is stored after five seconds.

- A—Tying start key
- B—Number of twine coils at tying start



CC1020278

CC1020278 -UN-30JUL01

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OUC006,00010F3 -19-28JUL06-4/7

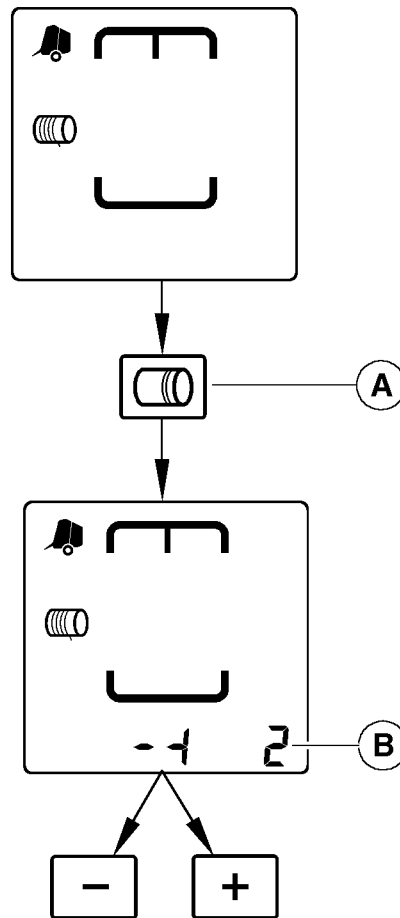
Setting Number of Twine Coils at Tying End with Single Arm Twine Tying

Press "NUMBER OF COILS AT TYING END" key (A). The number of twine coils at tying end (B) is displayed for five seconds.

While the number of twine coils at tying end is displayed, press "PLUS" or "MINUS" key to increase or decrease the number of coils from 0.5 to 5.

The number of twine coils at tying end displayed is stored after five seconds.

- A—Tying end key
- B—Number of twine coils at tying end



CC1020277

CC1020277 -UN-30JUL01

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OUCC006,00010F3 -19-28JUL06-5/7

Setting Distance of Tying Ends with Double Arm Twine Tying

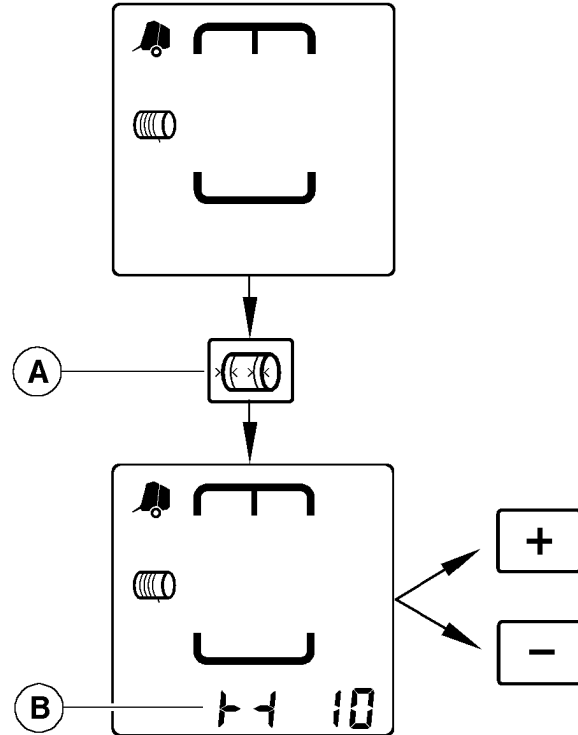
The distance from tying ends to the edges of bale can be adjusted from 8 to 25 cm (3 to 10 in.).

Press "TYING END DISTANCE" key (A). The distance (B) from tying ends to the edges of bale is displayed for five seconds.

While the distance is displayed, press "PLUS" or "MINUS" key to increase or decrease the distance.

The distance displayed is stored after five seconds.

- A—Tying end distance key
- B—Distance of tying ends



CC1020293

CC1020293 -UN-02AUG01

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OUC006,00010F3 -19-28JUL06-6/7

Setting Distance of Tying Ends with Single Arm Twine Tying

The distance from tying ends to the edges of bale can be adjusted from 8 to 25 cm (3 to 10 in.).

Press "TYING END DISTANCE" key (A). The right-hand distance (B) from tying end to the edge of bale is displayed for five seconds. Press "PLUS" or "MINUS" key to increase or decrease this distance.

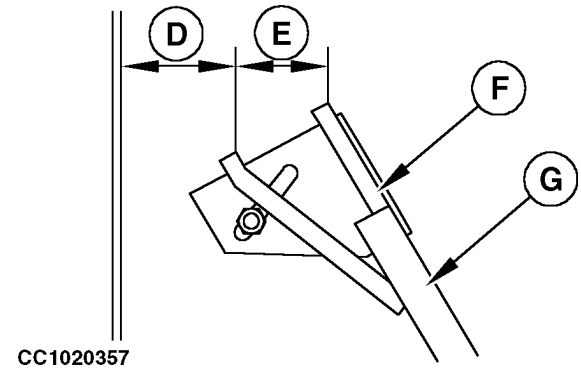
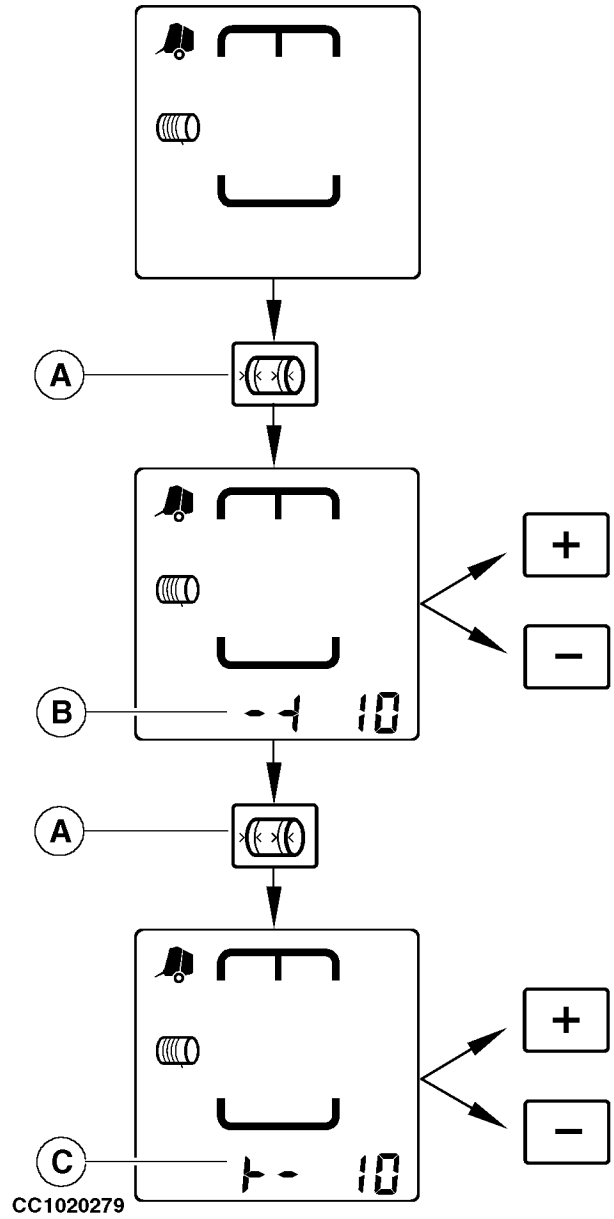
While right-hand distance (B) is displayed, press "TYING END DISTANCE" key (A) a second time to display the left-hand distance (C) from tying end to the edge of bale. Press "PLUS" or "MINUS" key to increase or decrease this distance.

The distances displayed are stored after five seconds.

CAUTION: The adjustment of right-hand distance displayed is given for the fixed twine tube (F). To obtain the actual right-hand distance, subtract space (E) from the distance (B) displayed on the monitor.

Twine guide adjustment must match desired left-hand distance. See "Adjusting Twine Guide" in "Operating the Baler—General Purposes" Section.

- A—Tying end distance key
- B—Right-hand distance
- C—Left-hand distance
- D—Distance
- E—Distance
- F—Fixed twine tube
- G—Twine arm



Manual Start of an Automatic Tying Cycle

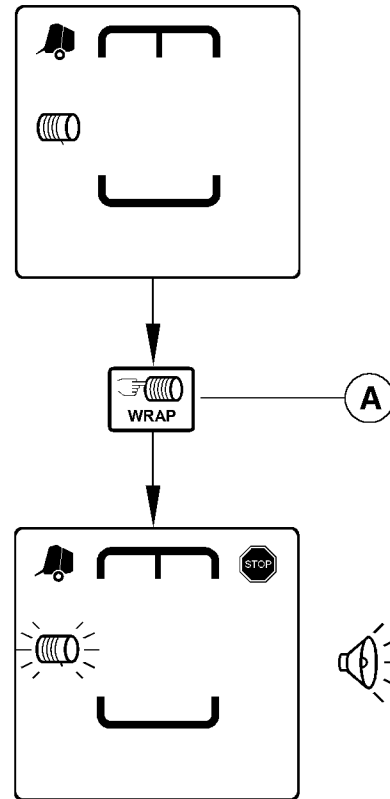
An automatic net or twine tying cycle can be manually started at any time.

Once started, the bale tying cycle uses the settings used to tie the previous bale (tying density, number of twine turns on bale ends, and distance of tying ends).

To start an automatic tying cycle, press “MANUAL START OF TYING CYCLE” key (A). The monitor beeps, the tying system pictogram flashes and the stop pictogram is displayed. The tying cycle begins (see “Automatic Start of Tying Cycle” in this section).

NOTE: If channel 032 is “ON”, the tying cycle starts automatically when the adjusted bale diameter is reached. See “Channel 032: Automatic Start of Tying Cycle” in “BaleTrak Monitor Service” Section.

A—Manual start of tying cycle key



CC1020280

CC1020280 -UN-30JUL101

OUCC006.00009F0 -19-15SEP03-1/1

Automatic Start of Tying Cycle (Mechanical Bale Shape Indicators)

IMPORTANT: Channel 032 must be "ON" to allow automatic start of tying cycle. See "Channel 032: Automatic Start of Tying Cycle" in "BaleTrak Monitor Service" section.

I — When the adjusted bale diameter is reached, the monitor beeps continuously for 3 seconds and the stop indicator (B) is displayed. Immediately stop the tractor. The net or twine pictogram (A) flashes (depending on which tying mode has been selected) and the tying cycle starts.

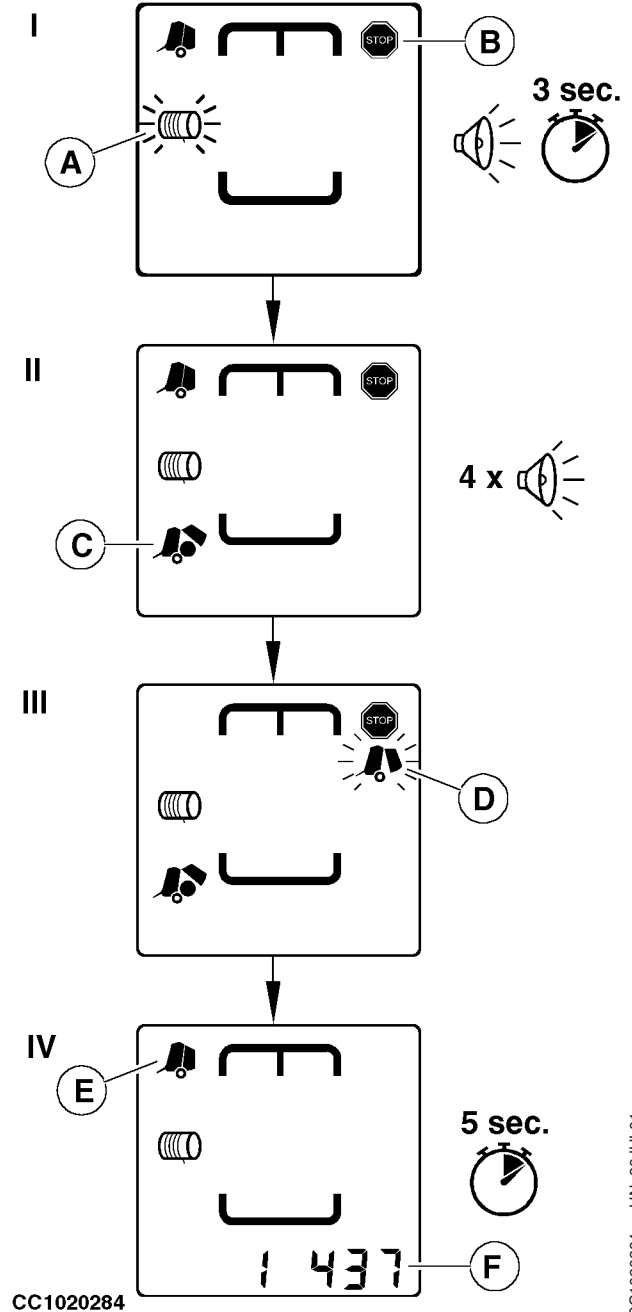
NOTE: For baler equipped with twine pulley sensor, if twine balls are empty, the stop indicator (B) will flash, a continuous beep will be emitted and the diagnostic trouble code "E321" will be displayed. Replace twine balls and press on "MINUS" key to clear the diagnostic trouble code.

II — When the tying cycle is completed, the bale ejection pictogram (C) is displayed and the monitor beeps four times.

III — Open the gate of the baler with the tractor selective control valve lever to dump the bale. The open gate pictogram (D) flashes while the gate is opened.

IV — When the gate is closed, the closed gate pictogram (E) is displayed and the current bale counter (F) is displayed for 5 seconds, then the baler is ready to make a new bale.

- A—Twine pictogram
- B—Stop indicator
- C—Bale ejection pictogram
- D—Open gate pictogram
- E—Closed gate pictogram
- F—Daily counter



CC1020284 -UN-30JUL01

Automatic Start of Tying Cycle (Electronic Bale Shape Indicators)

IMPORTANT: Channel 032 must be "ON" to allow automatic start of tying cycle. See "Channel 032: Automatic Start of Tying Cycle" in "BaleTrak Monitor Service" section.

I — Just before the end of bale formation, the near full pictogram (A) flashes and the monitor beeps twice.

II — When the bale diameter is reached, the monitor beeps continuously for 3 seconds and the stop indicator (C) is displayed. Immediately stop the tractor. The net or twine pictogram (B) flashes (depending on which tying mode has been selected) and the tying cycle starts.

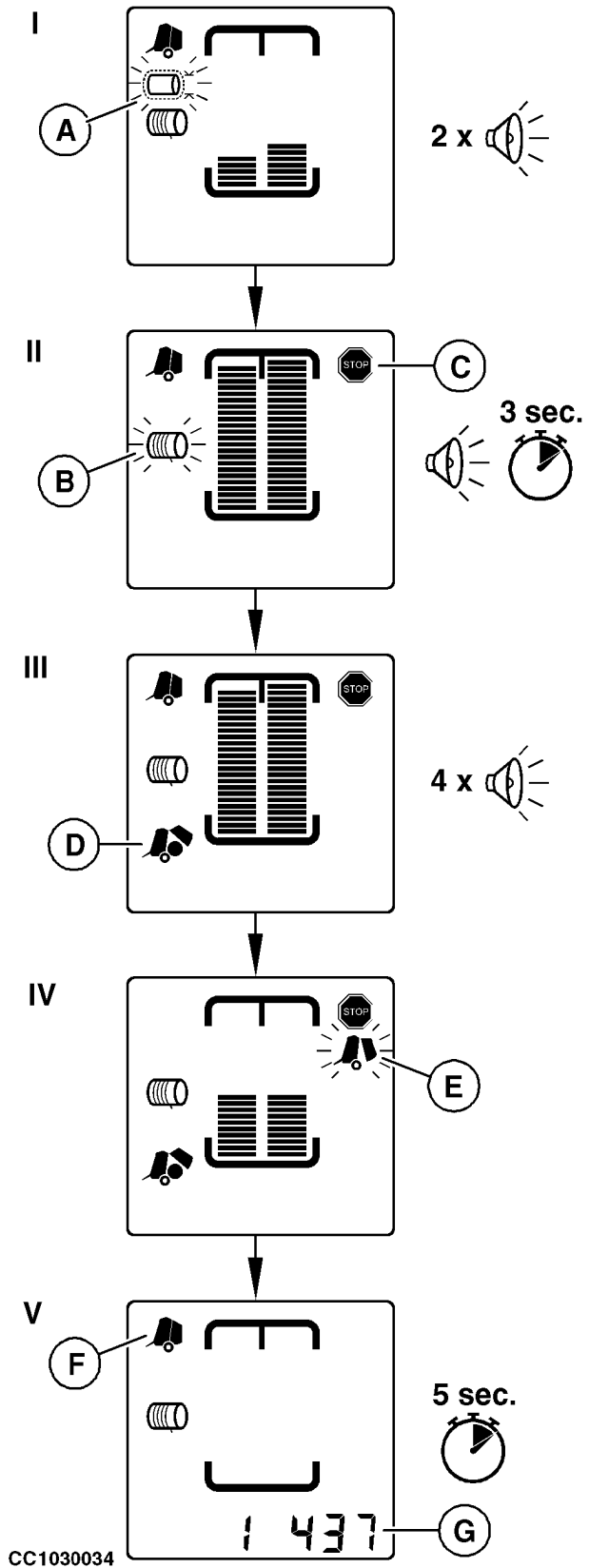
NOTE: For baler equipped with twine pulley sensor, if twine balls are empty, the stop indicator (C) will flash, a continuous beep will be emitted and the diagnostic trouble code "E321" will be displayed. Replace twine balls and press on "MINUS" key to clear the diagnostic trouble code.

III — When the tying cycle is completed, the bale ejection pictogram (D) is displayed and the monitor beeps four times.

IV — Open the gate of the baler with the tractor selective control valve lever to dump the bale. The open gate pictogram (E) flashes while the gate is opened.

V — When the gate is closed, the closed gate pictogram (F) is displayed and the current bale counter (G) is displayed for 5 seconds, then the monitor is ready to make another bale.

- A—Near full pictogram
- B—Twine pictogram
- C—Stop indicator
- D—Bale ejection pictogram
- E—Open gate pictogram
- F—Closed gate pictogram
- G—Daily counter



CC1030034

CC1030034 -UN-05SEP07

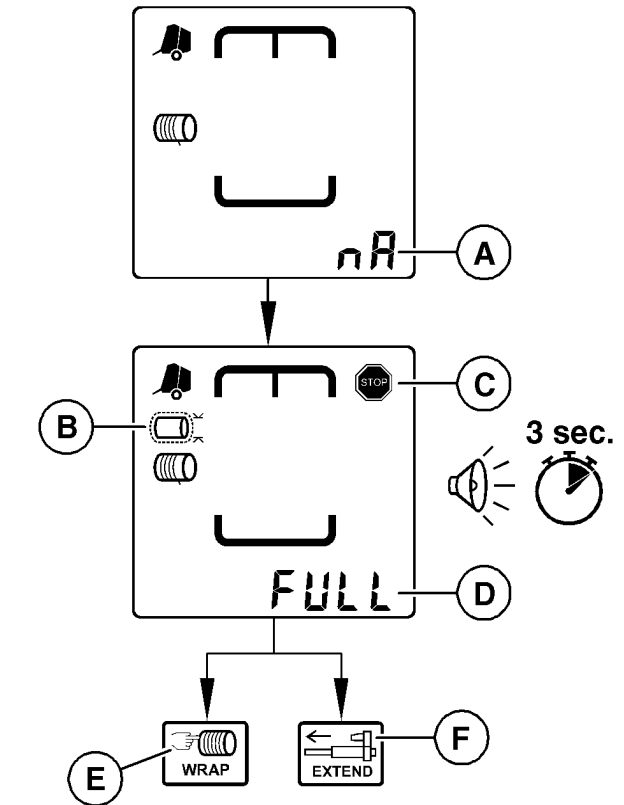
Manual Start of Tying Cycle (Mechanical Bale Shape Indicators)

IMPORTANT: Channel 032 must be "OFF" to start a tying cycle manually, "nA" (A) flashes while this mode is selected. See "Channel 032: Automatic Start of Tying Cycle" in "BaleTrak Monitor Service" section.

When the adjusted bale diameter is reached, the monitor beeps continuously for 3 seconds, near full (B), "FULL" (D) and stop indicator (C) are displayed. Immediately stop the tractor.

Manually start an automatic tying cycle (E) or tie bale manually (F). See "Manual Start of an Automatic Tying Cycle" and "Tying a Bale Manually" in this section.

- A—No automatic start of tying
- B—Near full pictogram
- C—Stop indicator
- D—Full-size bale
- E—Manually start an automatic tying cycle key
- F—Extend key



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Manual Start of Tying Cycle (Electronic Bale Shape Indicators)

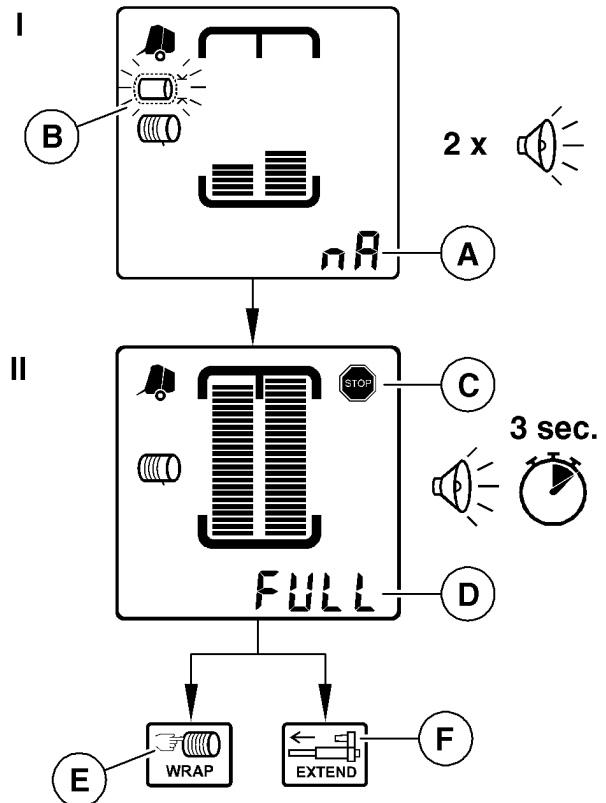
IMPORTANT: Channel 032 must be deactivated to start a tying cycle manually, "nA" (A) flashes while this mode is selected. See "Channel 032: Automatic Start of Tying Cycle" in "BaleTrak Monitor Service" section.

I — Just before the adjusted bale diameter is reached, near full pictogram (B) flashes and the monitor beeps twice.

II — When the adjusted bale diameter is reached, the monitor beeps continuously for 3 seconds, "FULL" (D) and stop indicator (C) are displayed. Immediately stop the tractor.

Manually start an automatic tying cycle (E) or tie bale manually (F). See "Manual Start of an Automatic Tying Cycle" and "Tying a Bale Manually" in this section.

- A—No automatic start of tying
- B—Near full pictogram
- C—Stop indicator
- D—Full-size bale
- E—Manually start an automatic tying cycle key
- F—Extend key



CC1030213

CC1030213 -UN-05SEP07

OUCC006,000130B -19-05SEP07-1/1

Tying a Bale Manually

Twine Tying

Move twine arm actuator with “EXTEND” (A) and “RETRACT” (B) keys. The actuator motion stops when the “EXTEND” (A) or “RETRACT” (B) keys are released. The twine tying pictogram flashes until the actuator is fully retracted.

Fully retract actuator to cut twine.

NOTE: Pressing either key during an automatic tying cycle will cancel the automatic tying cycle.

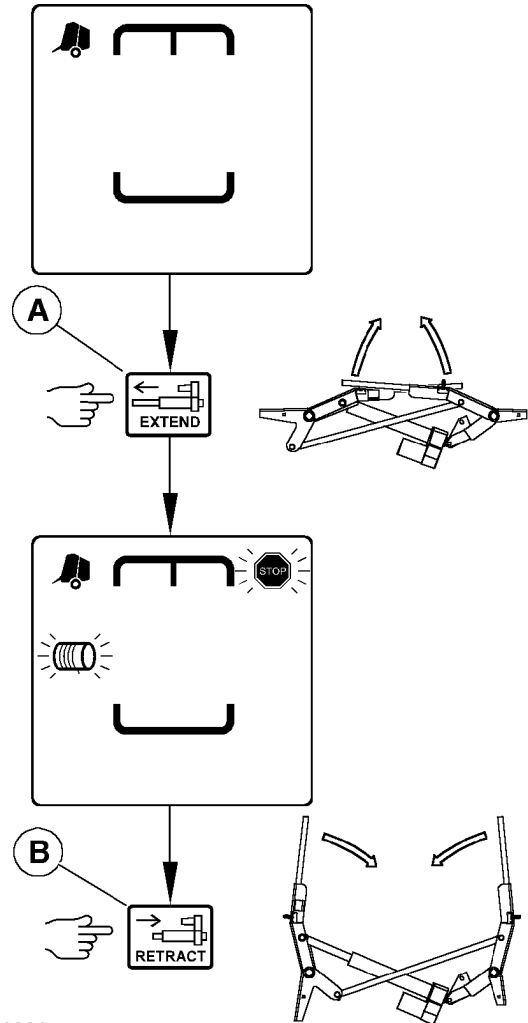
IMPORTANT: Make sure that the twine arm actuator is completely retracted and the twine cut before opening the gate of the baler.

Net Tying

Press “EXTEND” key (A) to start feeding net to the bale. When desired number of net revolutions on the bale is achieved, press “RETRACT” key (B) until the actuator is in home position and the net is cut. The net tying pictogram flashes until the actuator is fully retracted.

IMPORTANT: Make sure that the net actuator is fully retracted and the net cut before opening the gate of the baler.

A—Extend key
B—Retract key



CC1020281

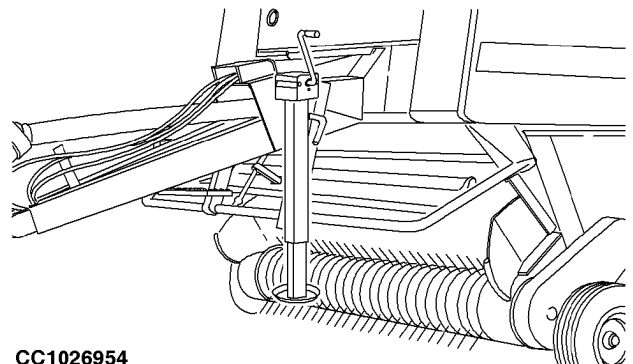
CC1020281 -UN-30JUL01

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Raising/Lowering the Pickup

When the control monitor is switched on, the pickup raising/lowering function is automatically selected. In this case, there is no special LCD screen display.

Act on selective control valve lever of the tractor to raise or lower the pickup.



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Retracting/Engaging Precutter Knives

NOTE: "Retracting/engaging knives" function uses the same selective control valve as the pickup raise/lower control.

The precutter device allows to chop the crop.

In normal operating mode, the symbol "C" (A) is displayed if the knives are engaged and not displayed if the knives are retracted.

Press and hold "PRECUTTER KNIFE" key (B) for about 3 seconds to select "knives retracting/engaging" function. The buzzer beeps to confirm that the "knives retracting/engaging" function is selected.

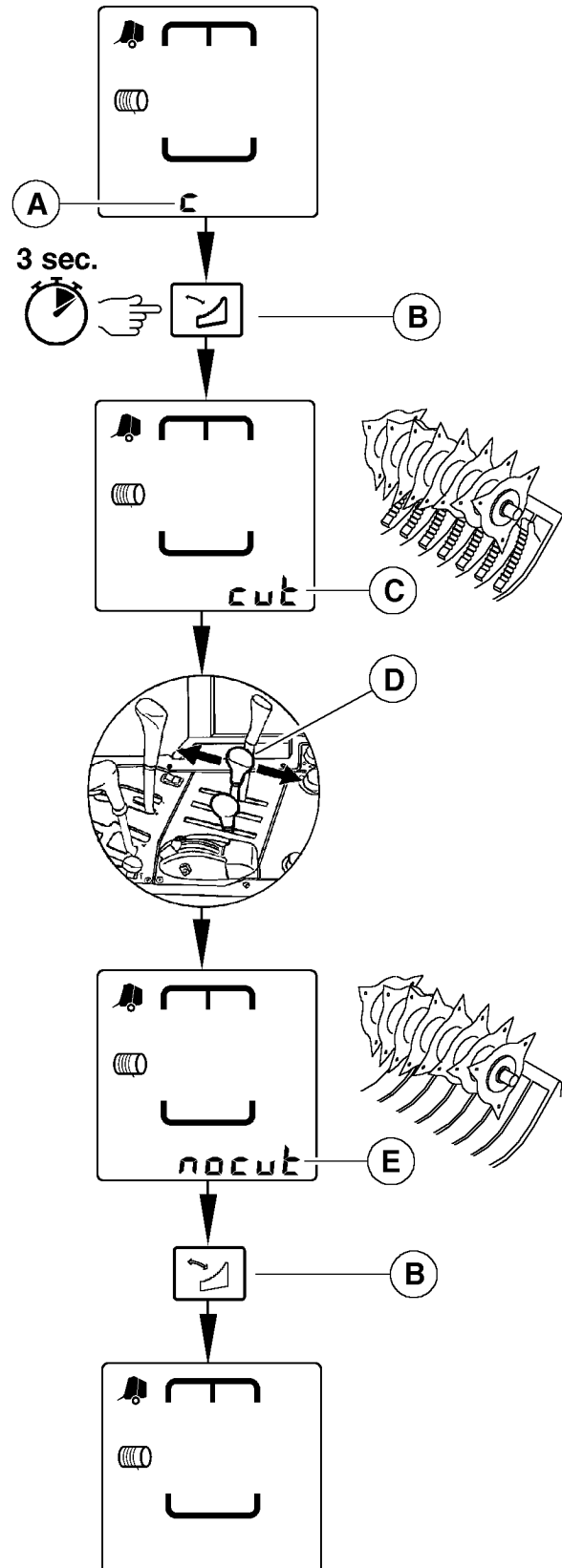
"cut" (C) is displayed if the knives are engaged or "nocut" if the knives are retracted.

Act on selective control valve lever of the tractor (D) to retract or engage the knives.

"nocut" (E) (knives retracted) or "cut" (knives engaged) is displayed according to knife position.

Press "PRECUTTER KNIFE" key (B) or another key to leave the "knives retracting/engaging" function. The buzzer beeps to confirm that the monitor is back to normal operating mode.

- A—Precutter symbol
- B—Precutter knife key
- C—Knives engaged
- D—Control valve lever
- E—Knives retracted



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IMPORTANT: During baler operation with precutter knives engaged, if some knives are disengaged during more than 2 seconds, the symbol "C" flashes and the monitor beeps.

Retract and engage precutter knives several time after each working day to prevent knives jamming.

NOTE: When using baler with knives retracted for a long period of time, it is recommended to remove them all (see "Replacing Precutter Knives" in "Service" section) or to install fillers to plug the knife slot (See "Knife Slot Filler Kit" in "Attachment" section).

OUCC006,00011EB -19-02FEB07-2/2

Unplugging Baler with Rotary Feeder

NOTE: Reversing rotary feeder function uses the same selective control valve as the pickup raise/lower control.

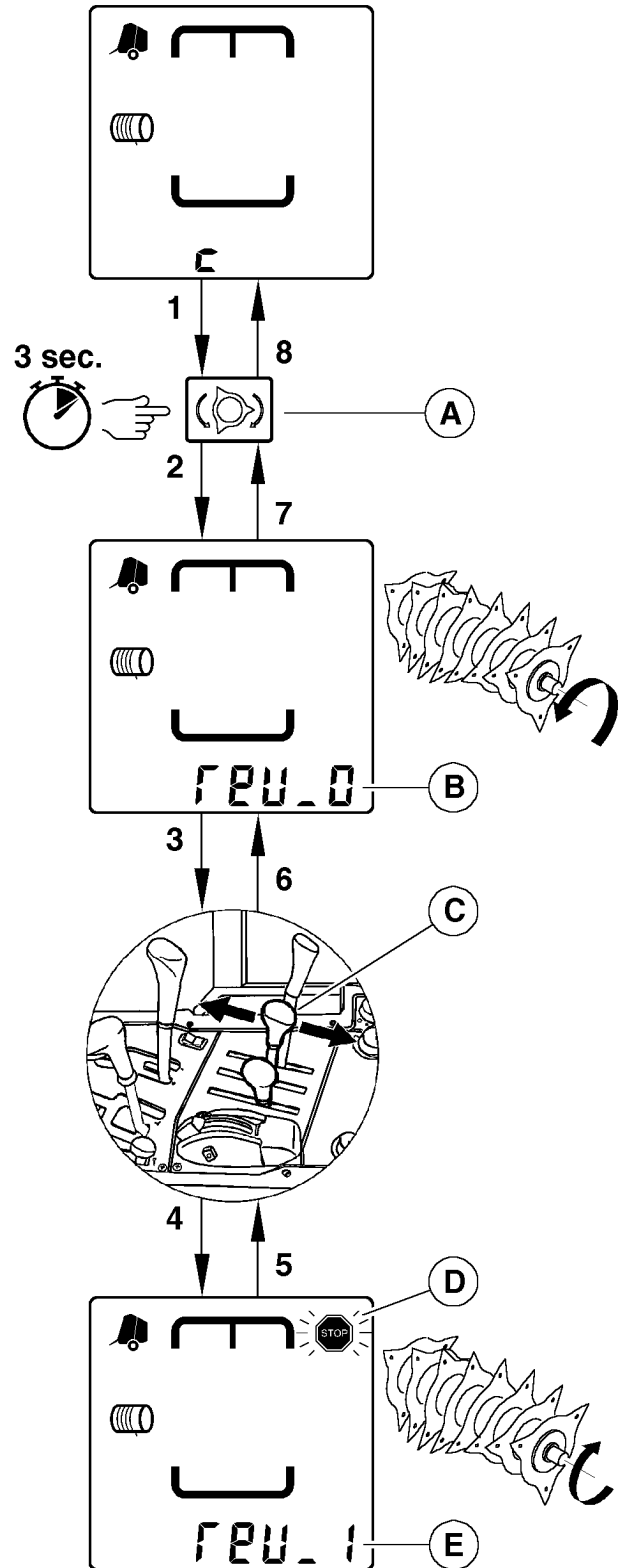
Whenever necessary to unplug the baler, reverse the rotary feeder drive.

1. Stop tractor.
2. Disengage the PTO. Press and hold "ROTARY FEEDER REVERSE" key (A) for about 3 seconds.
3. The monitor enters "Reversing Rotary feeder" function and a slow intermittent sound alarm is emitted while this function is selected. "REV 0" (B) is displayed to indicate that rotary feeder drive is not reversed.
4. Act on selective control valve lever (C) to reverse the baler gear box.
5. When the baler gear box is reversed, the stop indicator (D) flashes, "REV 1" (E) is displayed and a quick intermittent sound alarm is emitted.

Slowly engage the PTO at slow tractor idle in such a way that the rotary feeder will receive only one impulsive rotation movement. Impulsive movement means, NOT MORE THAN A HALF TURN OF ROTARY FEEDER PER IMPULSE. Failure to do so could result in material wraps and rotary feeder plugging.

6. When the baler is unplugged, disengage the PTO and act on selective control valve lever (C) to move the baler gear box in the normal operation.
7. "REV 0" (B) is displayed to indicate that the gear box is in normal operation. Put the selective control valve lever to neutral position.

- A—Rotary feeder reverse key
- B—Rotary feeder not reversed
- C—Control valve lever
- D—Stop indicator
- E—Rotary feeder reversed



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8. Press "ROTARY FEEDER REVERSE" key (A) or another key to leave the "Reversing Rotary Feeder" function.
9. The monitor is back to normal operating mode.

IMPORTANT: The PTO must be disengaged to change the direction of the rotary feeder.

The baler gear box must be in normal operation to leave the "Reversing Rotary Feeder" function.

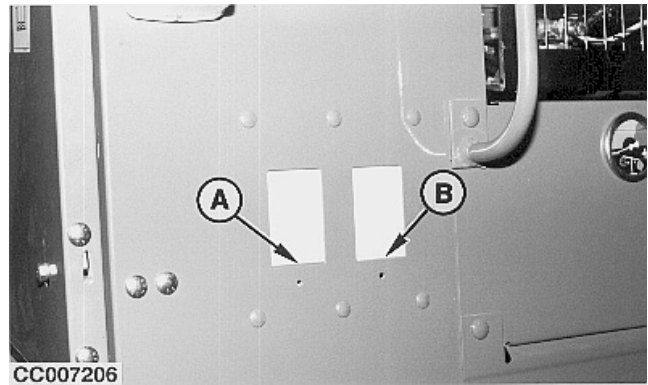
Guideline to Form a Good Bale (Mechanical Bale Shape Indicators)

1. Start feeding windrow in the center of baler.
2. Weave quickly to one side of the windrow and feed the baler for several meters as close as possible to the sidesheet, without leaving hay in the field.

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

3. Weave quickly to the other side of the windrow and feed the baler for several meters as close as possible to the sidesheet, without leaving hay in the field.
4. Weave quickly back to the other side and feed the baler as close as possible to the sidesheet. Continue feeding this side until the bale shape indicator (A) or (B) corresponding to feeding side rises.
5. Then quickly drive to the other side and continue feeding this side until the bale shape indicator (A) or (B) corresponding to feeding side rises.
6. Continue to feed in this manner. Then finish up the bale by getting the bale shape indicators on both sides as high and as even as possible before reaching full size.

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 possible with the baler.**



Mechanical Bale Shape Indicator Shown

A—Right Bale Shape Indicator
B—Left Bale Shape Indicator

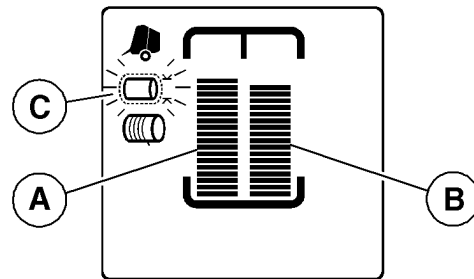
Guideline to Form a Good Bale (Electronic Bale Shape Indicators)

1. Start feeding windrow in the center of baler.
2. Weave quickly to one side of the windrow and feed the baler for several meters as close as possible to the sidesheet, without leaving hay in the field.

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

3. Weave quickly to the other side of the windrow and feed the baler for several meters as close as possible to the sidesheet, without leaving hay in the field.
4. Weave quickly back to the other side and feed the baler as close as possible to the sidesheet. Continue feeding this side until the bale shape indicator (A) or (B) corresponding to feeding side rises.
5. Then quickly drive to the other side and continue feeding this side until the bale shape indicator (A) or (B) corresponding to feeding side rises.
6. Continue to feed in this manner until near full pictogram (C) is flashing. Then finish up the bale by getting the bale shape indicators on both sides as high and as even as possible before reaching full size.

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



CC1030214

Electronic Bale Shape Indicator Shown

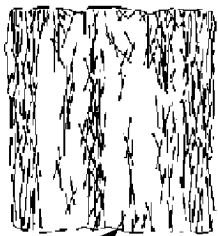
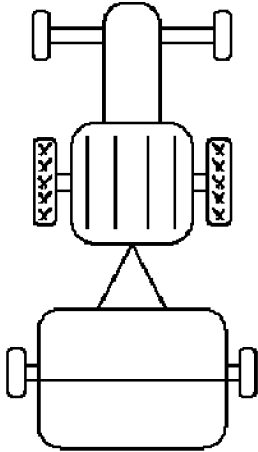
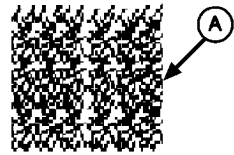
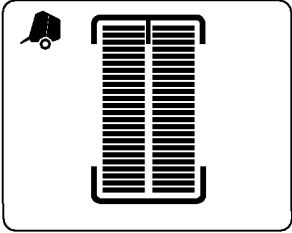
- A—Left bale shape indicator
- B—Right bale shape indicator
- C—Near full pictogram

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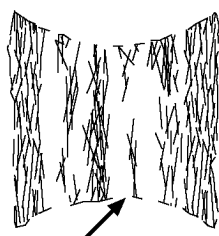
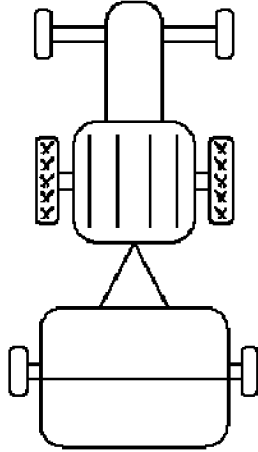
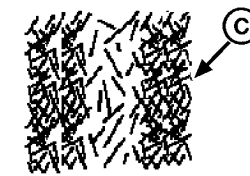
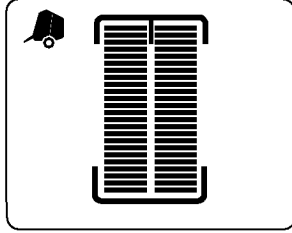
OUCC006,000130C -19-03OCT07-1/1

Making a Bale (Electronic Bale Shape Indicators)

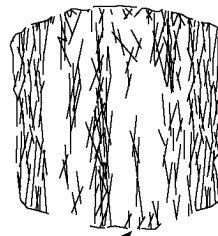
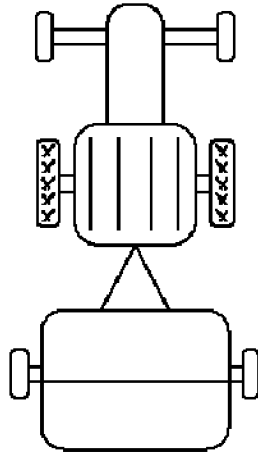
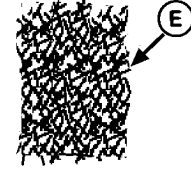
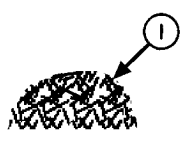
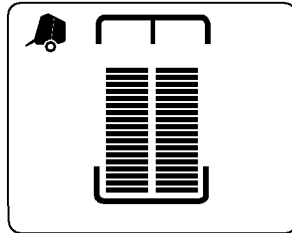
I



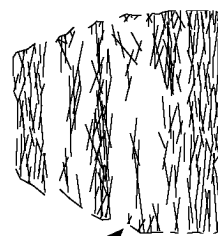
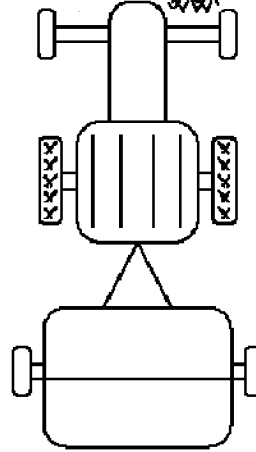
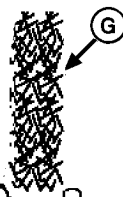
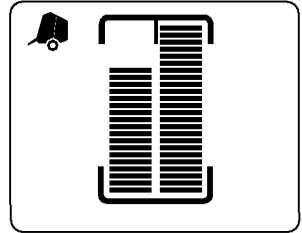
II



III



IV



Continued on next page

OUCC006,00010EE -19-23NOV06-1/2

The illustration on the facing page and the following information describe the relationship between the monitor-controller display, windrow variations and actual bale shape.

To ensure optimum bale shape and maximum bale density, the top bar should be shown on BOTH sides of the bale shape indicator display as shown in Example I. The top bars should be displayed when bale is being tied. Refer to "Guideline to Form a Good Bale" in this section.

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

If this is not practical, create windrows up to one-half the width of the bale chamber and follow the bale shape bars. (Refer to "Guideline to Form a Good Bale" in this section.)

II— If full-width windrow (C) is heavy on the outside edges and light at the center, an hourglass shaped bale (D) will be formed even though bale shape bars are balanced and all lit.

If possible, weaving back and forth across windrow will help fill the middle of the bale. Otherwise, proper windrow formation (raking, etc.) may be needed.

III— Bale shape bars will not reach maximum height and a barrel shaped bale (F) is formed if any of the following conditions exist:

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

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

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

Bale shape bars may not reach maximum height when operating at reduced bale density. This is also true when operating in certain crops such as third cut grass or short wheat straw, because ends of bale are soft.

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

- Operator feeding one side more than other.

Weave back and forth across narrow windrow to keep bale shape bars as high as possible.

Using Bale Counters

The monitor is equipped with six bale counters: one total counter (D) and five resettable current counters (B) which can be used to store daily number of bales or number of bales per field.

Two conditions must be met to add a bale to the current and total counters: the bale must be tied and the gate must be opened and closed.

In normal operating mode, the selected current counter is displayed for five seconds following bale ejection.

Selecting a Current Counter

To select a current counter (B), press several times on "COUNTER" key (A) until the desired counter (C) is displayed. After five seconds without pressing any key, the monitor returns to normal display mode and the last displayed current counter is selected. The new bales will be added in the selected counter.

If the last counter displayed is the total counter (D) the current counter selected (B) is the current counter from the last selection (for example 3).

Viewing Current Bale Counters

Press "COUNTER" key (A). The last selected current counter (B) is displayed for five seconds.

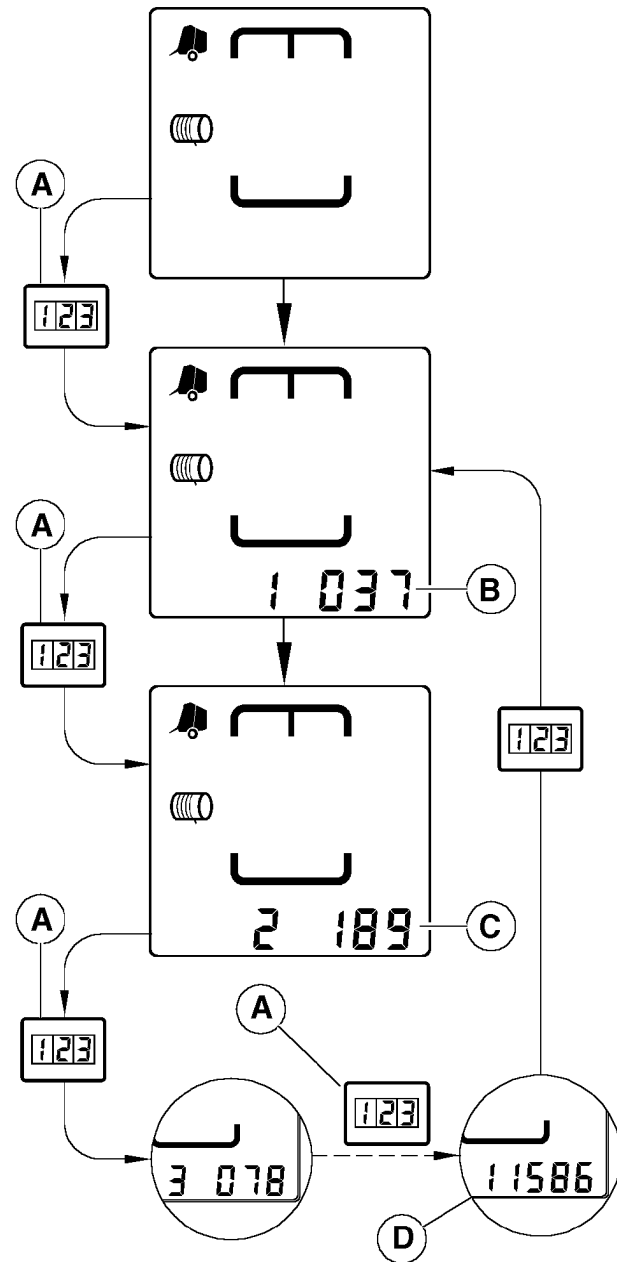
Viewing Total Bale Counter

While a current counter (B) is displayed, press several times "COUNTER" key (A) until the monitor displays the total counter. (Total counter will be displayed after the fifth counter.)

Adding or Removing Bales in Current Counters

Current counters can be increased to add bales or decreased to subtract bales.

While the desired current counter is displayed, press "PLUS" or "MINUS" key to increase or decrease number of bales.



CC1020285

- A—Counter key
- B—Current counter
- C—Current counter
- D—Total counter

NOTE: A continuous pressure on "MINUS" key will reset the counter displayed.

The last number of bales displayed is stored after five seconds.

NOTE: Adding or removing bales from current counter will not affect the total counter.

Resetting Current Bale Counters

To reset a current bale counter, press and hold "MINUS" key while a current counter (B) is displayed. The counter displayed will begin to decrease then reset.

NOTE: Total bale counter can not be changed or erased.

OUCC006,0000749 -19-02AUG02-2/2

Warning Pictograms

Stop Indicator

The Stop indicator (A) is displayed when:

- The bale reaches the preset diameter.
- The Open Gate pictogram is displayed.
- The Oversize Bale pictogram is displayed.
- The Net Tying warning pictogram is displayed.
- A diagnostic trouble code is displayed.
- The monitor is switched on with a bale inside the baler.

Stop the tractor when the stop indicator (A) is displayed.

NOTE: The Stop indicator is displayed at start up if the net or twine actuator is disconnected or does not work.

Open Gate Pictogram

The Open Gate Pictogram (B) is displayed when the gate of the baler is opened while ejecting the bale.

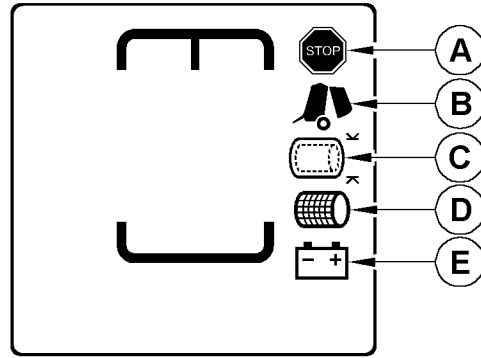
Activate the tractor selective control valve lever to close the gate of the baler and switch off this pictogram.

NOTE: If the Open Gate Pictogram is displayed when the gate is correctly closed, adjust the gate switch. (See "Adjusting Gate Switch" in "Service" section).

Oversize Bale Pictogram

The Oversize Bale pictogram (C) is displayed when the bale exceeds the maximum bale diameter of the baler model. Continuing to operate with oversized bale in chamber can cause severe gate damage, bearing breakage and roll damage.

When the Oversize Bale pictogram is displayed, immediately stop the tractor. Start the tying cycle with Manual Tying Start key (see "Starting manually an automatic tying cycle" in this section), and eject the bale.



CC1018857

- A—Stop indicator
- B—Open gate warning
- C—Oversized Bale warning
- D—Net tying warning
- E—Battery warning

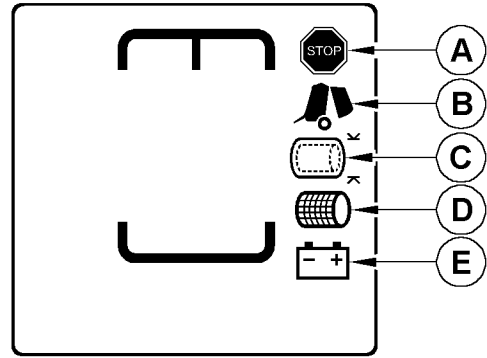
CC1018857 -UN-22DEC00

Net Pictogram

The Net pictogram (D) is displayed when the net is not cut or when the net roll is empty. Correct the net cut problem or replace the net roll to switch off this pictogram.

Battery Pictogram

The Battery pictogram (E) and the voltage are displayed when the battery voltage is below 11.2 V or over 16 V.



CC1018857

- A—Stop indicator
- B—Open gate warning
- C—Oversized Bale warning
- D—Net tying warning
- E—Battery warning

CC1018857 -JUN-22DEC00

OUCC006.0000AA1 -19-19JAN04-2/2

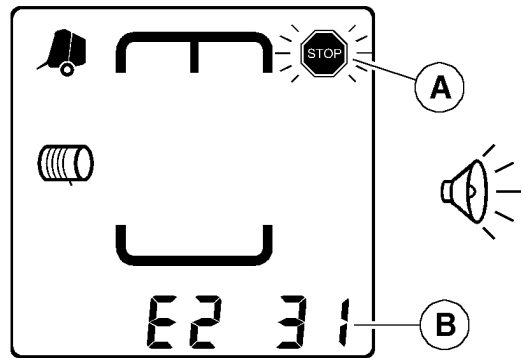
Diagnostic Trouble Code

When an error occurs on the round baler, the monitor displays the Stop indicator (A), a sound alarm is emitted and a diagnostic trouble code (B) is displayed.

Some of the diagnostic trouble codes are displayed for 5 seconds then disappear.

It is possible to clear some of the diagnostic trouble codes from the LCD screen by pressing the “MINUS” key.

To clear some other of the diagnostic trouble codes, it is necessary to correct the malfunction. Press the “MINUS” key to stop the buzzer then correct the problem corresponding to the diagnostic trouble code. (See “Diagnostic Trouble Code List” in “BaleTrak Monitor Service” section).



CC1020287

- A—Stop indicator
- B—Diagnostic trouble code

CC1020287 -JUN-30JUL01

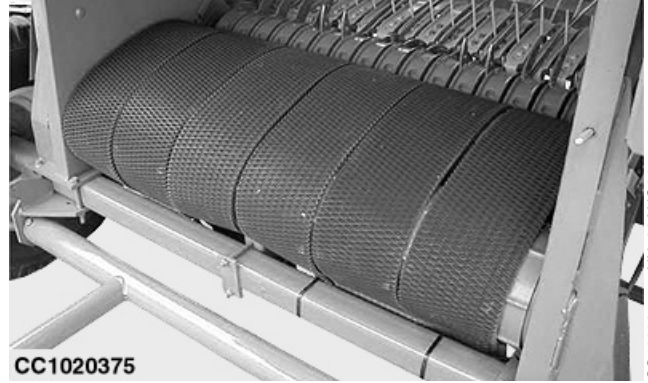
OUCC006.0000450 -19-26JUL01-1/1

Attachments

Belt Kit

A belt kit is available as an attachment to improve baler efficiency when baling slippery straw.

The belt kit also helps in discharging bales when working in silage.



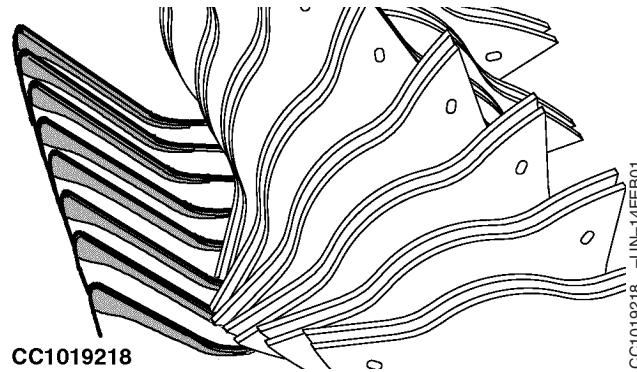
CC1020375

CC1020375 -UN-30AUG01

CC03745,0000299 -19-27AUG01-1/1

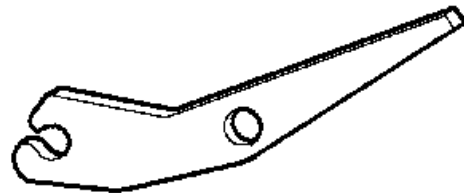
Knife Slot Filler Kit (For Precutter Device Only)

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



CC1019218

CC1019218 -UN-14FEB01



CC1026079

Knife Slot Filler

CC1026079 -UN-13JUL04

OUC006,0000BA7 -19-10AUG04-1/1

Lubrication and Maintenance

Lubricating and Maintaining Machine Safely

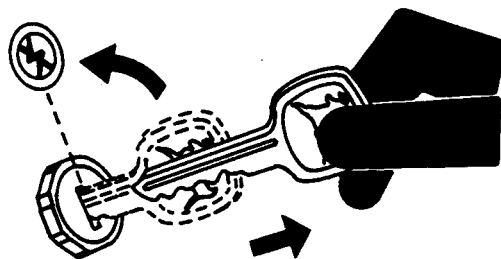


CAUTION: To help prevent personal injury caused by unexpected movement, be sure to service machine on a level surface.

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

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

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



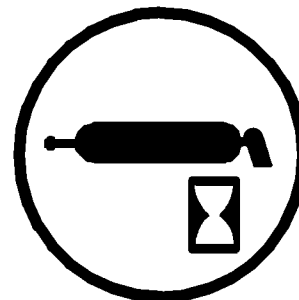
TS230 -UN-24MAY89

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

Observe Service Intervals

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

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



CC 000934

CC000934 -UN-05APR95

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

Performing Lubrication and Maintenance

Clean lubrication fittings before using grease gun. Replace any lost or broken fittings immediately. If a

new fitting fails to take grease, remove and check for failure of adjoining parts.

CC03745.00002AA -19-27AUG01-1/1

Grease

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

John Deere SD POLYUREA GREASE is preferred.

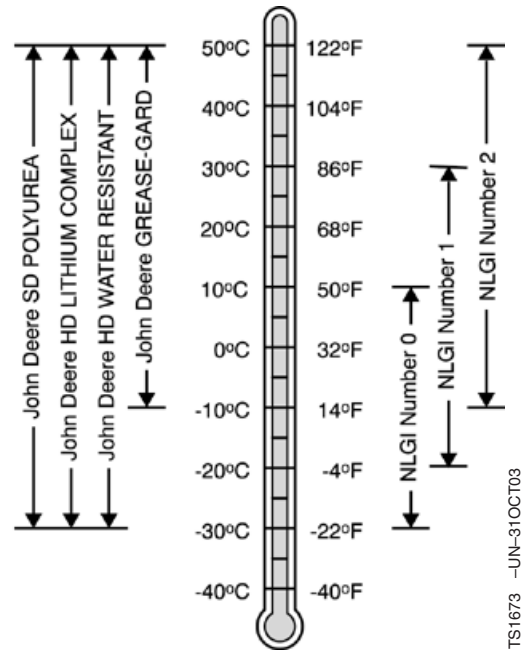
The following greases are also recommended

- John Deere HD LITHIUM COMPLEX GREASE
- John Deere 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 thickeners are not compatible with others. Consult your grease supplier before mixing different types of grease.



GREASE-GARD is a trademark of Deere & Company

DX.GREA1 -19-07NOV03-1/1

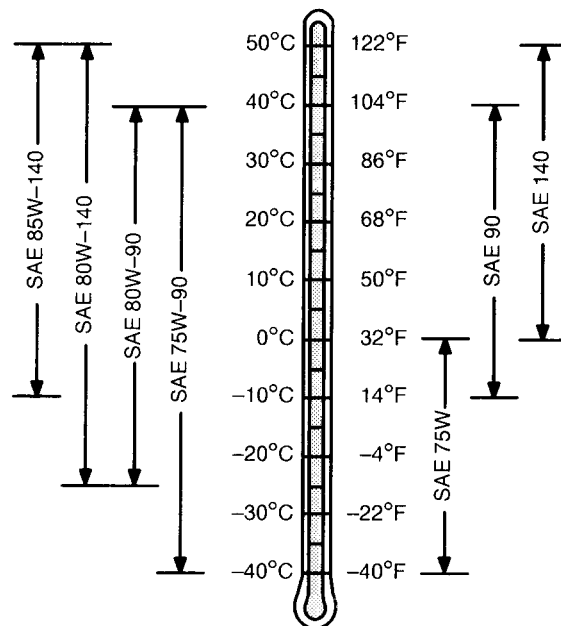
Gear Oil

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

The following oils are preferred:

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

Other oils may be used if they meet API Service Classification GL-5.



EXTREME-GARD is a trademark of Deere & Company.

DX.GEOIL -19-07JUL99-1/1

Multiluber Chain Oil

Use the following oil for the multiluber chain oiling system:

John Deere BIO-MULTILUBER-OIL¹

Other equivalent biodegradable oils may also be used.

IMPORTANT: Never use mineral oil for this application.

NOTE: John Deere BIO-MULTILUBER-OIL is available at your John Deere dealer.

- DC43300: BIO-MULTILUBER-OIL 5 liters
- DC44063: BIO-MULTILUBER-OIL 25 liters

¹John 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.

CC.CHAINOIL -19-04OCT01-1/1

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 -19-18MAR96-1/1

Alternative and Synthetic Lubricants

Conditions in certain geographical areas may require lubricant recommendations different from those printed in this manual.

Some John Deere brand coolants and lubricants may not be available in your location.

Consult your John Deere dealer to obtain information and recommendations.

Synthetic lubricants may be used if they meet the performance requirements as shown in this manual.

The temperature limits and service intervals shown in this manual apply to both conventional and synthetic oils.

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

DX,ALTER -19-15JUN00-1/1

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 -19-18MAR96-1/1

Mixing of Lubricants

In general, avoid mixing different brands or types of oil. Oil manufacturers blend additives in their oils to meet certain specifications and performance requirements.

Mixing different oils can interfere with the proper functioning of these additives and degrade lubricant performance.

Consult your John Deere dealer to obtain specific information and recommendations.

DX,LUBMIX -19-18MAR96-1/1

Adjusting Chain Oiling System Pump (up to S.N. 49999)

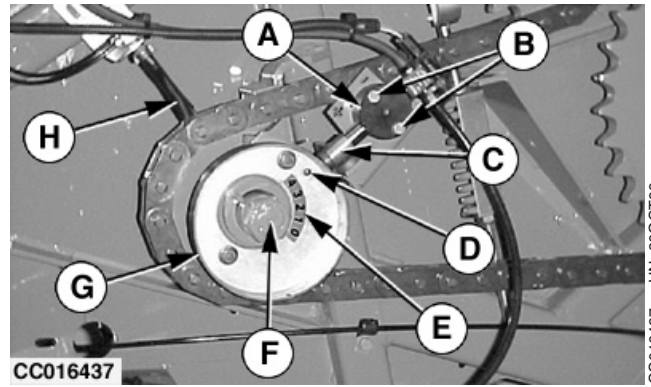
Lubrication pump (A) stroke can be adjusted to furnish more or less oil at the lubrication brushes (H) (the greater the piston stroke the greater the oil flow).

Pump stroke graduation (E) reaches from 0 (minimum oil flow) to 4 (maximum oil flow), do not adjust beyond maximum adjustment index (D).

Adjust pump stroke as follows:

1. Loosen the two pump bolts (B).
2. Rotate gear case output shaft (F) to align the desired pump stroke graduation with pump.
3. Taking care that pump piston is fully extended (as shown) adjust piston flush with the pump cam (G) then tighten pump bolts (B).
4. Turn gear case output shaft (F) one complete revolution to check that pump piston collar (C) will not interfere with the pump (A). Readjust pump position if necessary.

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



A—Pump
 B—Pump bolts
 C—Pump piston collar
 D—Maximum adjustment index
 E—Pump flow graduation
 F—Gear case output shaft
 G—Pump cam
 H—Brushes

Adjusting Chain Oiling System Brush Flow (up to S.N. 49999)

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

Five valve types are available:

- IM22 10 cc/hour
- IM23 20 cc/hour
- IM24 40 cc/hour
- IM25 80 cc/hour
- IM26 160 cc/hour

NOTE: Valve output is given at 700 kPa (7 bar; 102 psi) with John Deere BIO-MULTILUBER-OIL at 25° C (77° F).

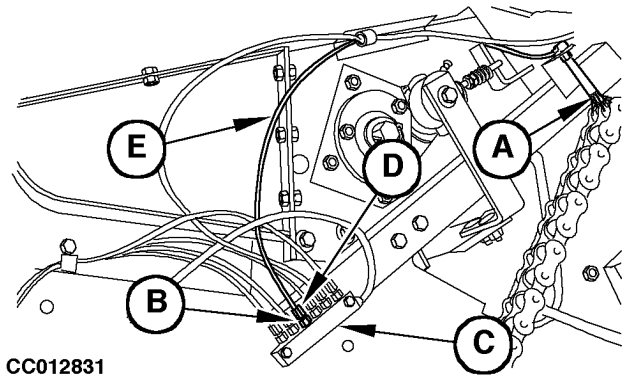
The different metering valve types are available through regular parts channels and can be installed at any port of the manifold (C) to regulate oil flow of the relevant brush.

Proceed as follows:

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

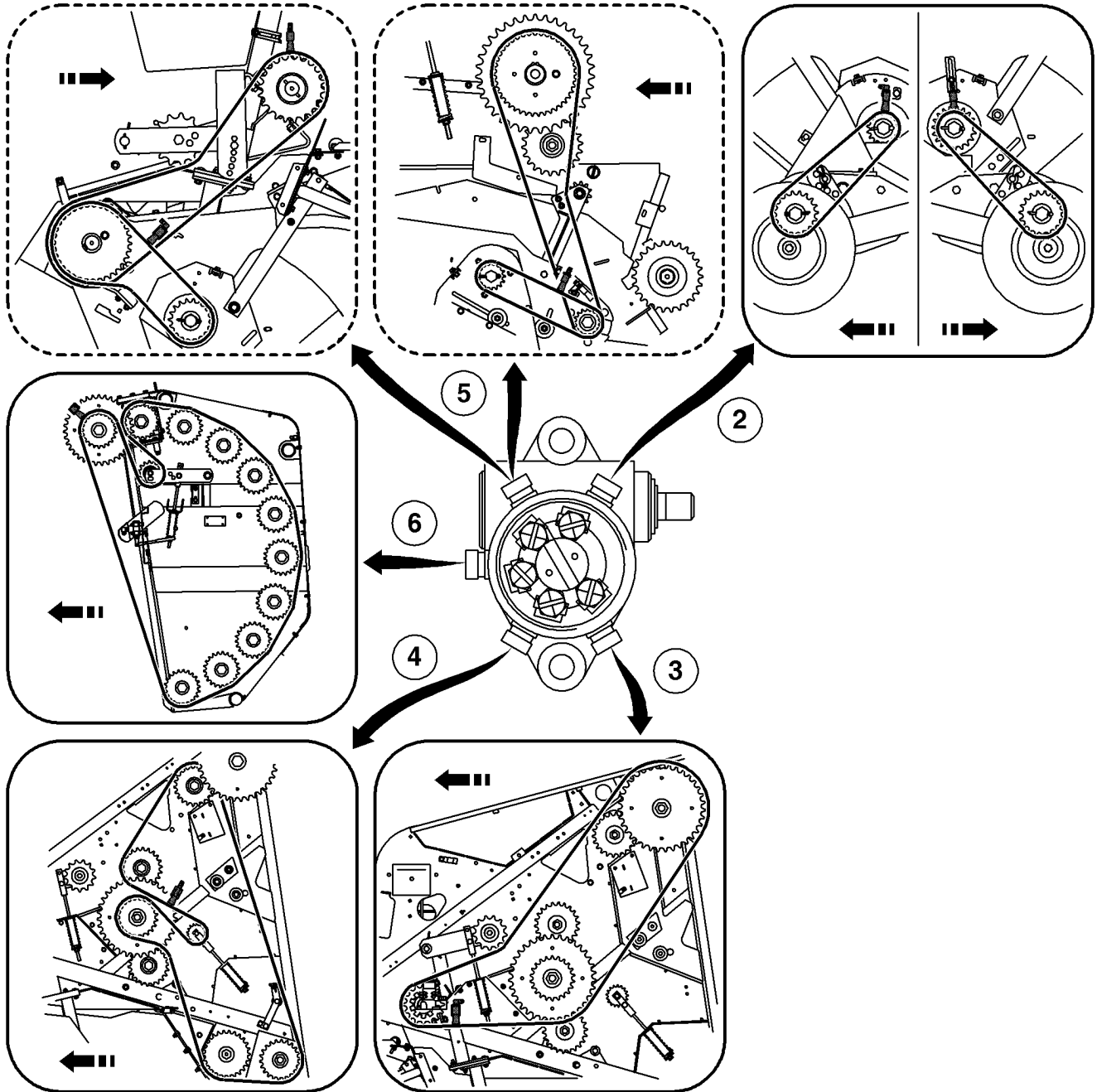
NOTE: If plastic hose has been marked by the metering valve sealing components, cut the hose just above this mark so that no oil leakage will occur when installing hose into a new valve.

2. 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.



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

Adjusting Chain Oiling System (from S.N. 50000)



CC1027641

Component identification (except for MultiCrop baler)

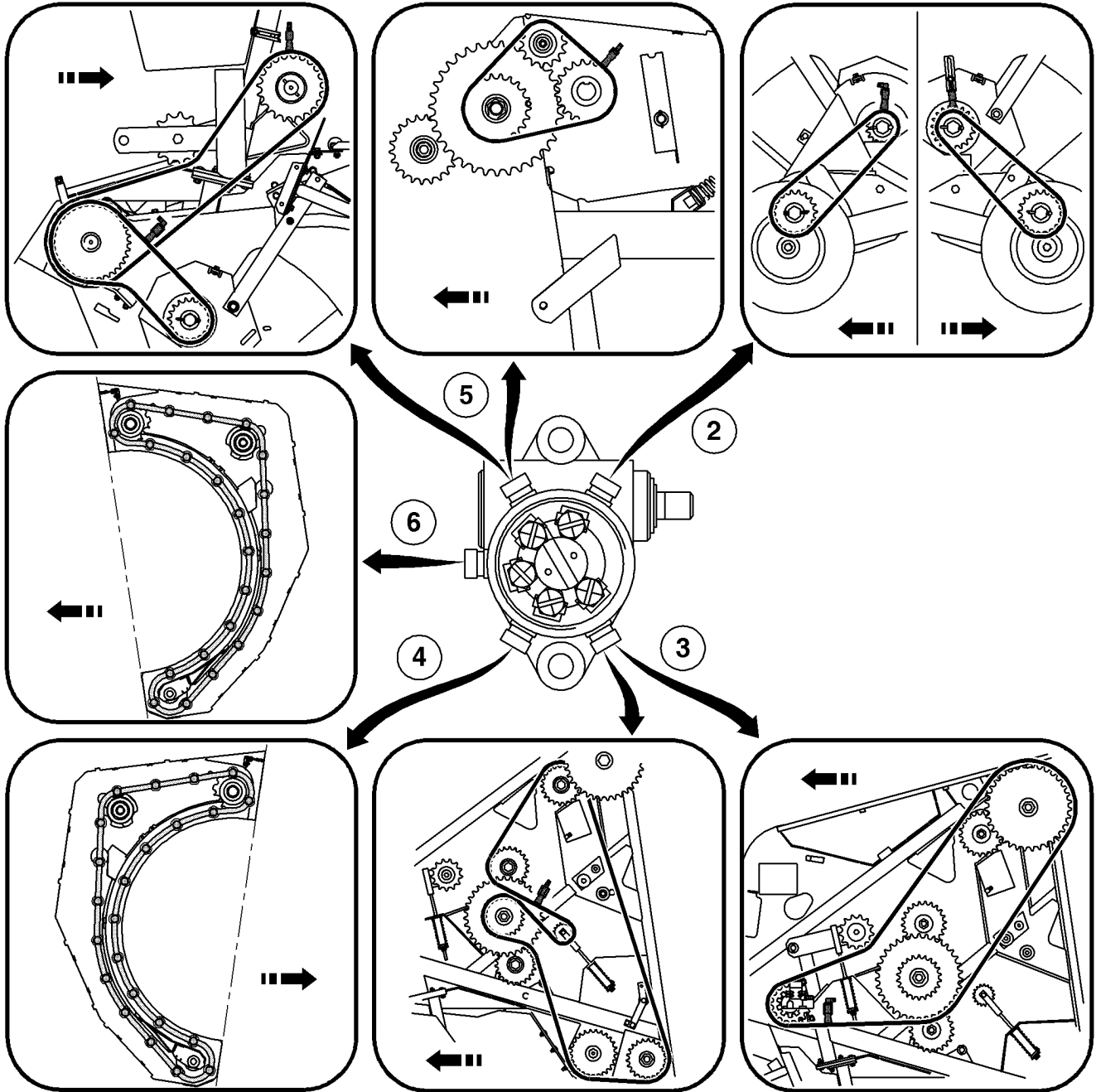
2—Pickup and left-hand side auger drive chains (red ring)

3—Main drive chain (orange ring)
4—Frame roll drive chain (yellow ring)

5—Rotary feeder and right-hand side auger drive chains (green ring)

6—Gate roll drive chain (blue ring)

NOTE: Each hose is identified to pump and brush side with a number on a color ring.



CC1028459

Component identification (for MultiCrop balers)

- 2—Pickup and left-hand side auger drive chains (red ring)
- 3—Main drive chain and frame roll drive chain (orange ring)
- 4—Right-hand side conveyor chain (yellow ring)
- 5—Rotary feeder, right-hand side auger and conveyor drive chains (green ring)
- 6—Left-hand side conveyor chain (blue ring)

NOTE: Each hose is identified to pump and brush side with a number on a color ring.

CC1028459 -UN-22DEC06

Adjusting Oil Flow

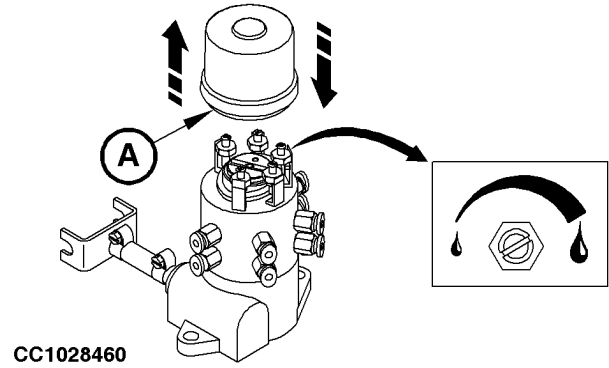
The oil flow at each chain can be adjusted.

1. Remove cover (A).
2. Identify the screw allowing to adjust the oil flow of the relevant brush(es).
3. Turn the screw clockwise to increase oil flow and counterclockwise to decrease oil flow.

NOTE: *The pump is very precise. Turn screw 1/4 turn by 1/4 turn to adjust oil flow.*

When the screw is totally screwed in (maximum flow), unscrewing four turns allows to obtain the minimum flow.

4. Install cover (A).



CC1028460

A—Pump cover

CC1028460 -UN-21SEP06

OUCC006,00010EC -19-10JAN07-3/3

As Required - Refilling Multiluber Chain Oiling System Reservoir

Depending on the pump flow adjustment, refill reservoir as required.

Specification

Oil Reservoir (up to S.N. 48999)—Capacity	4 l (1 US gal)
Oil Reservoir (from S.N. 50000 to S.N. 58999)—Capacity	2 l (0.5 US gal)
Oil Reservoir (from S.N. 60000)—Capacity	4 l (1 US gal)

Use oil specified under "Multiluber Chain Oil" in this Section.

IMPORTANT: Never use any other type of oil.



CC1028454

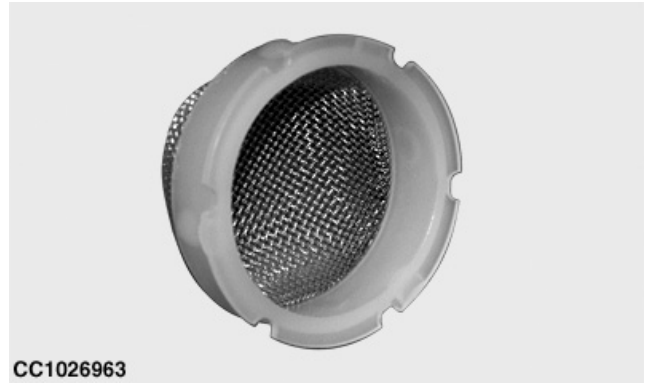
4 L (1 US gal) Oil Reservoir Shown

CC1028454 -UN-21SEP06

OUCC006,00010E0 -19-23NOV06-1/1

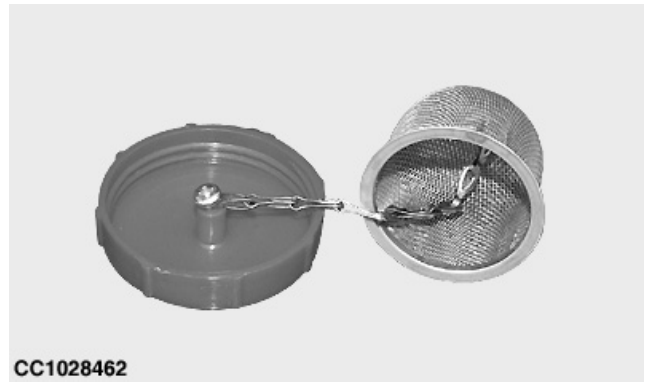
**As Required - Cleaning Oil Reservoir Filter
(from S.N. 50000)**

Clean oil reservoir filter as necessary.



CC1026963 -UN-27JAN05

Oil Reservoir Filter 2 l



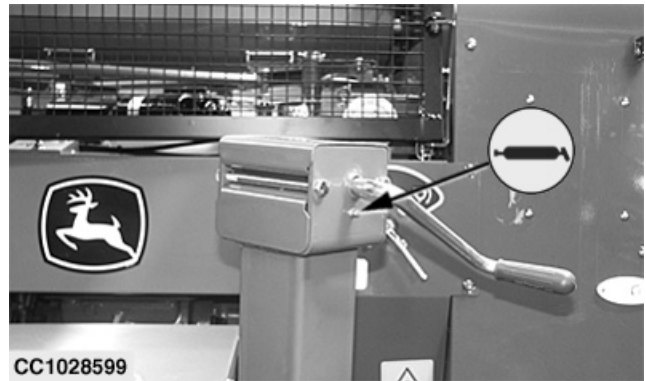
CC1028462 -UN-21SEP06

Oil Reservoir Filter 4 l

OUCC006,00010F1 -19-23NOV06-1/1

As Required - Jackstand (from S.N 60000)

Lubricate with John Deere GREASE-GARD.



CC1028599 -UN-19SEP06

OUCC006,0001155 -19-27OCT06-1/1

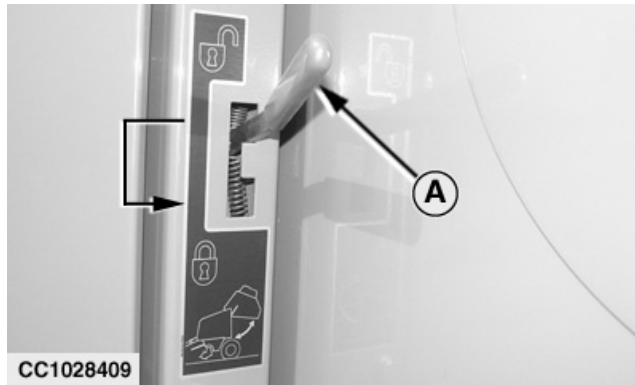
Every 10 Hours - Checking Precutter Knives

1. Open the gate.
2. Engage tractor parking lock, shut off tractor engine, remove key.
3. Place gate lock lever (A) in "LOCK" position.

Keep each precutter knife very sharp. Knives must have regular, daily attention or should be checked at least every 200 bales.

Refer to "Replacing Precutter Knives" in "Service" Section to remove the knives and to sharpen them as desired.

A—Gate lock lever



Every 10 Hours - Pickup Drum Drive Chain Without Automatic Chain Oiling System

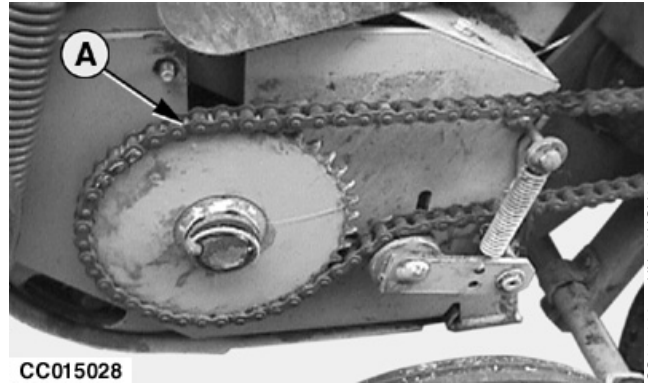
⚠ CAUTION: To help prevent injury, do not lubricate chain with machine running.

Remove shielding.

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

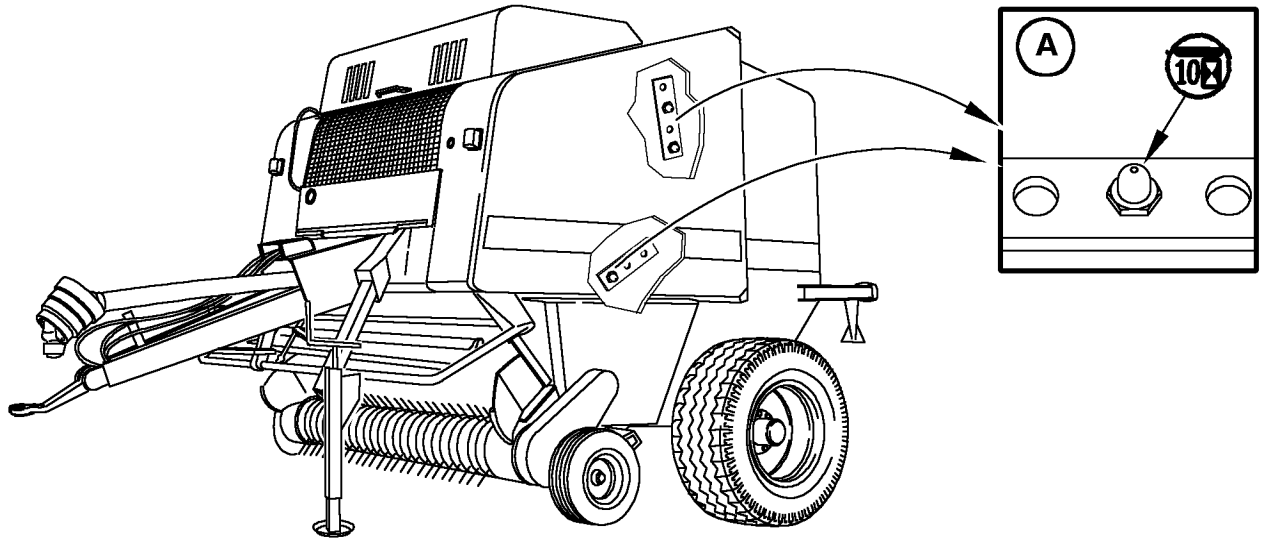
Lubricate chain (A) immediately after operation when the chain is still warm. Let the machine stand idle for a short period of time to ensure effective oil penetration, resulting in longer chain life.

Reinstall shielding.



OUCC006.000122F -19-02FEB07-1/1

Every 10 Hours - Rolls on 568 Baler



CC015019

A—Grease nipples

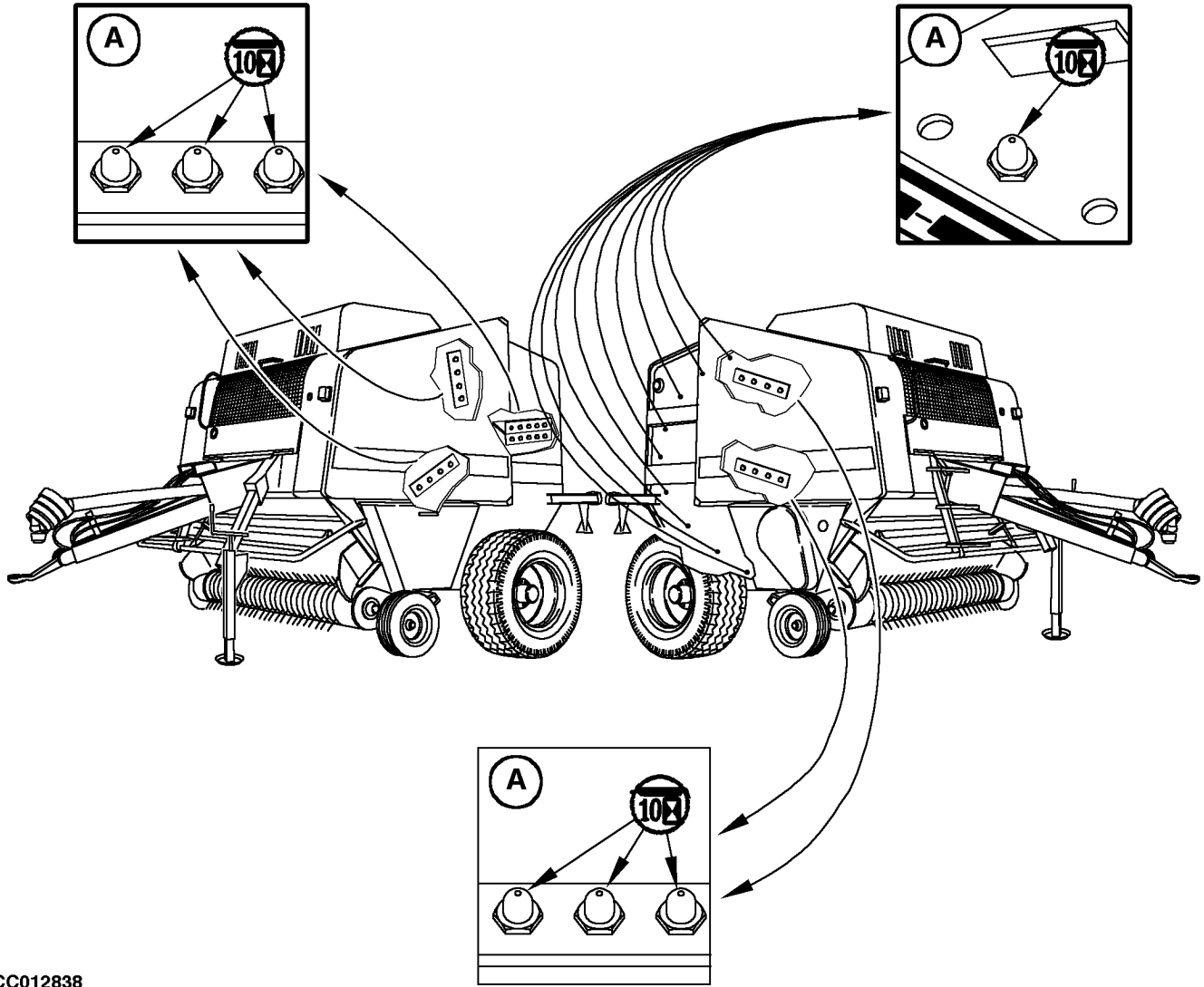
Lubricate with John Deere GREASE-GARD.

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

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

CC015019 -UN-30NOV98

Every 10 Hours - Rolls on 578 Baler



CC012838

A—Grease nipples

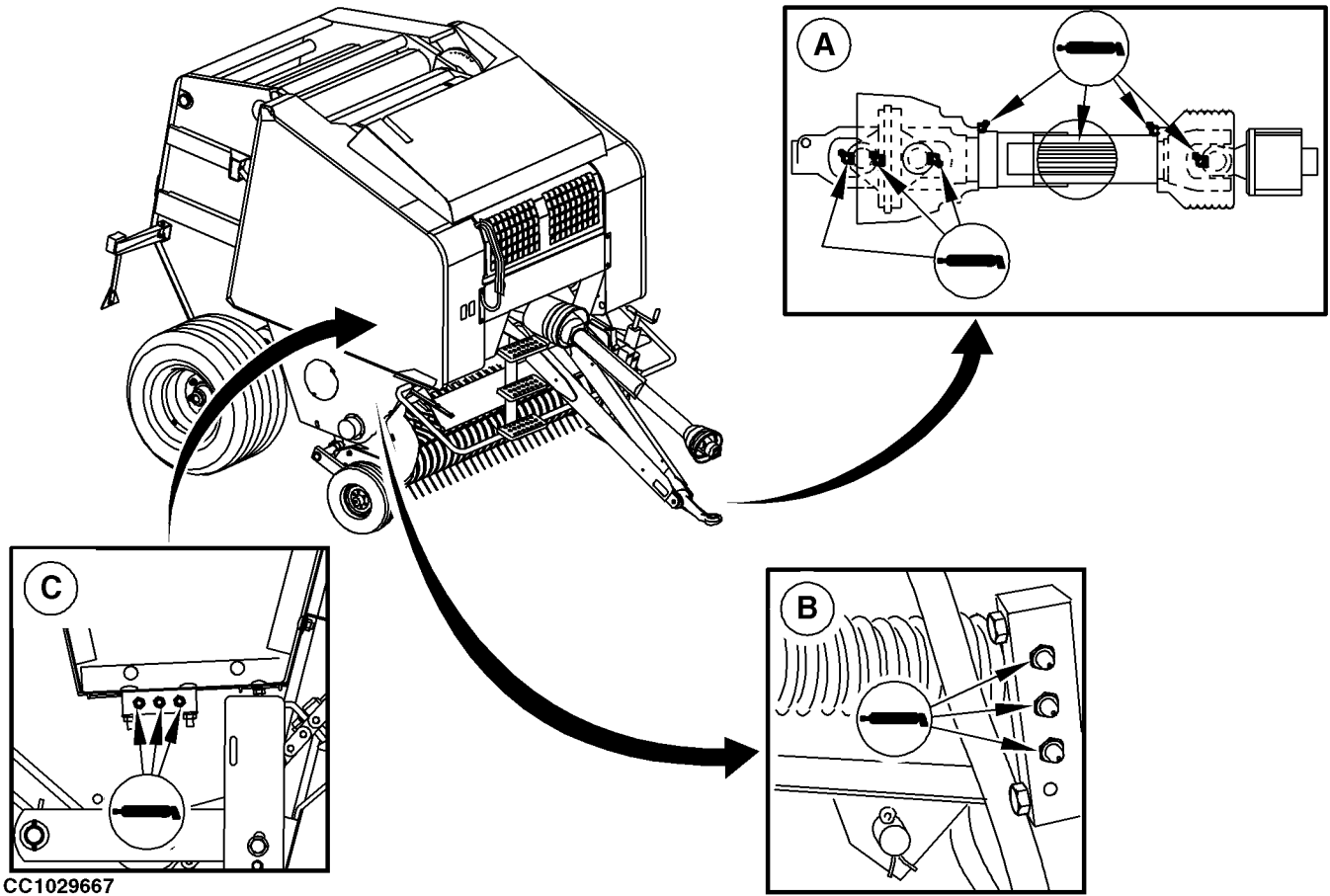
Lubricate with John Deere GREASE-GARD.

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

CC012838 -UN-06DEC97

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

Every 10 Hours - Powerline (without Extended Greasing Interval) and Rotary Feeder Pickup



A—Powerline

B—2.00 m rotary feeder pickup
up to S.N. 78999

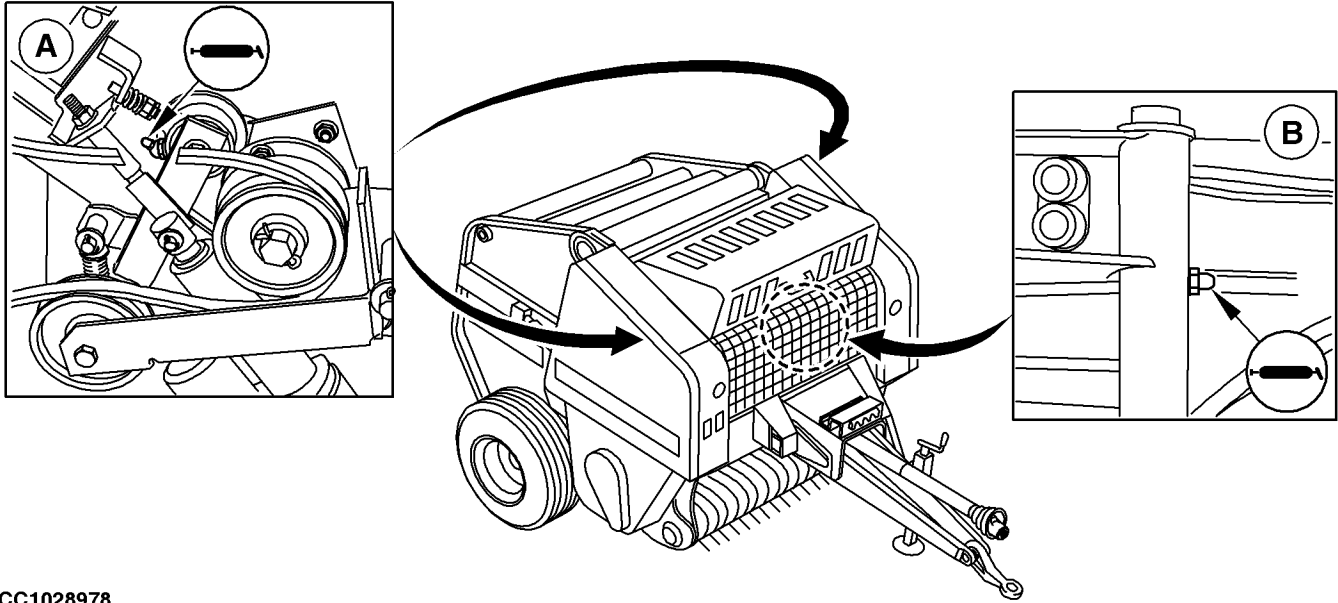
C—2.00 m rotary feeder pickup
from S.N. 80000 and 2.20 m
rotary feeder pickup

Lubricate with John Deere GREASE-GARD.

OUCC006,00012FF -19-05SEP07-1/1

CC1029667 -UN-05SEP07

Every 30 Hours - Standard Net Tying Device and Single Arm Twine Tying (If Equipped)



CC1028978

A—Net drive rolls

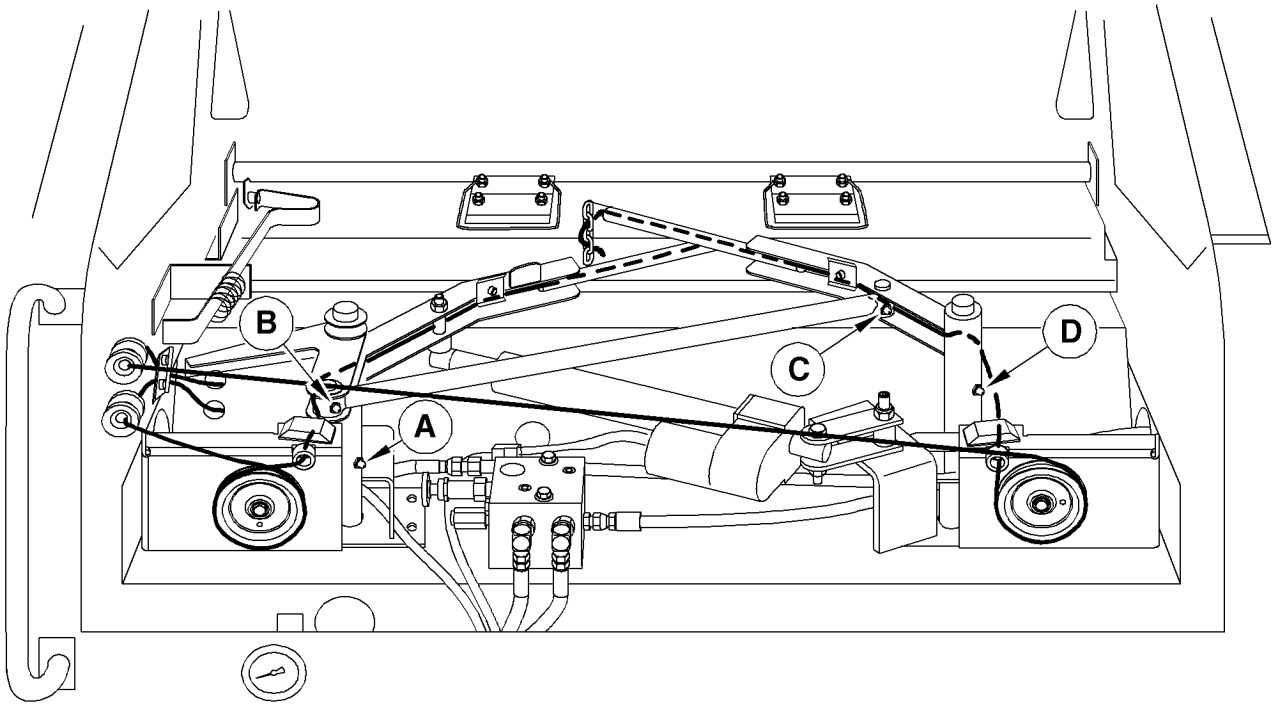
B—Single arm twine tying

Lubricate with John Deere GREASE-GARD.

CC1028978 -JUN-22DEC06

OUCC006,0001221 -19-15DEC06-1/1

Every 30 Hours - Double Arm Twine Tying



CC1023449

CC1023449 -UN-30SEP03

A—Twine arm pivot

B—Twine arm link pin

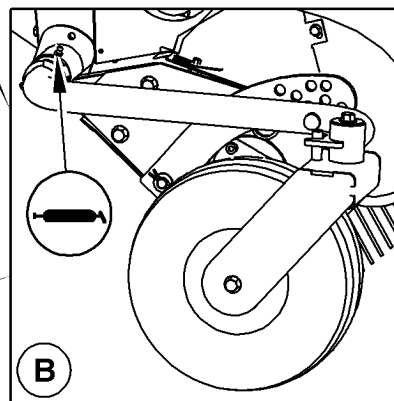
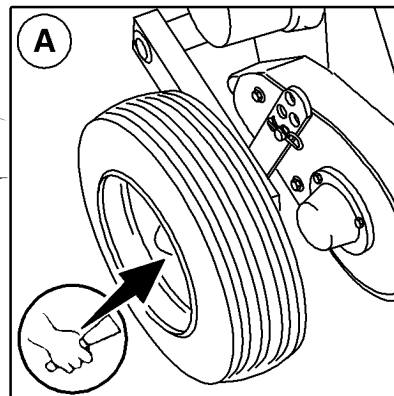
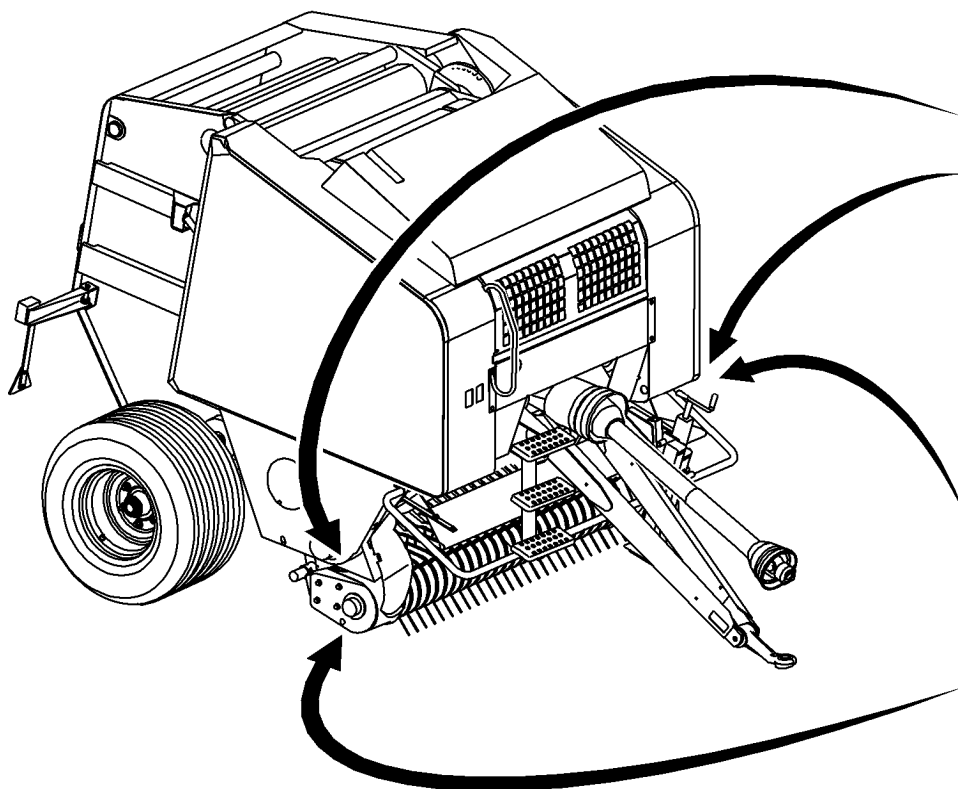
C—Twine arm link pin

D—Twine arm pivot

Lubricate with John Deere GREASE-GARD.

OUCC006.00009FD -19-26SEP03-1/1

Every 30 Hours - Gauge Wheel



CC1028979

A—Gauge wheel

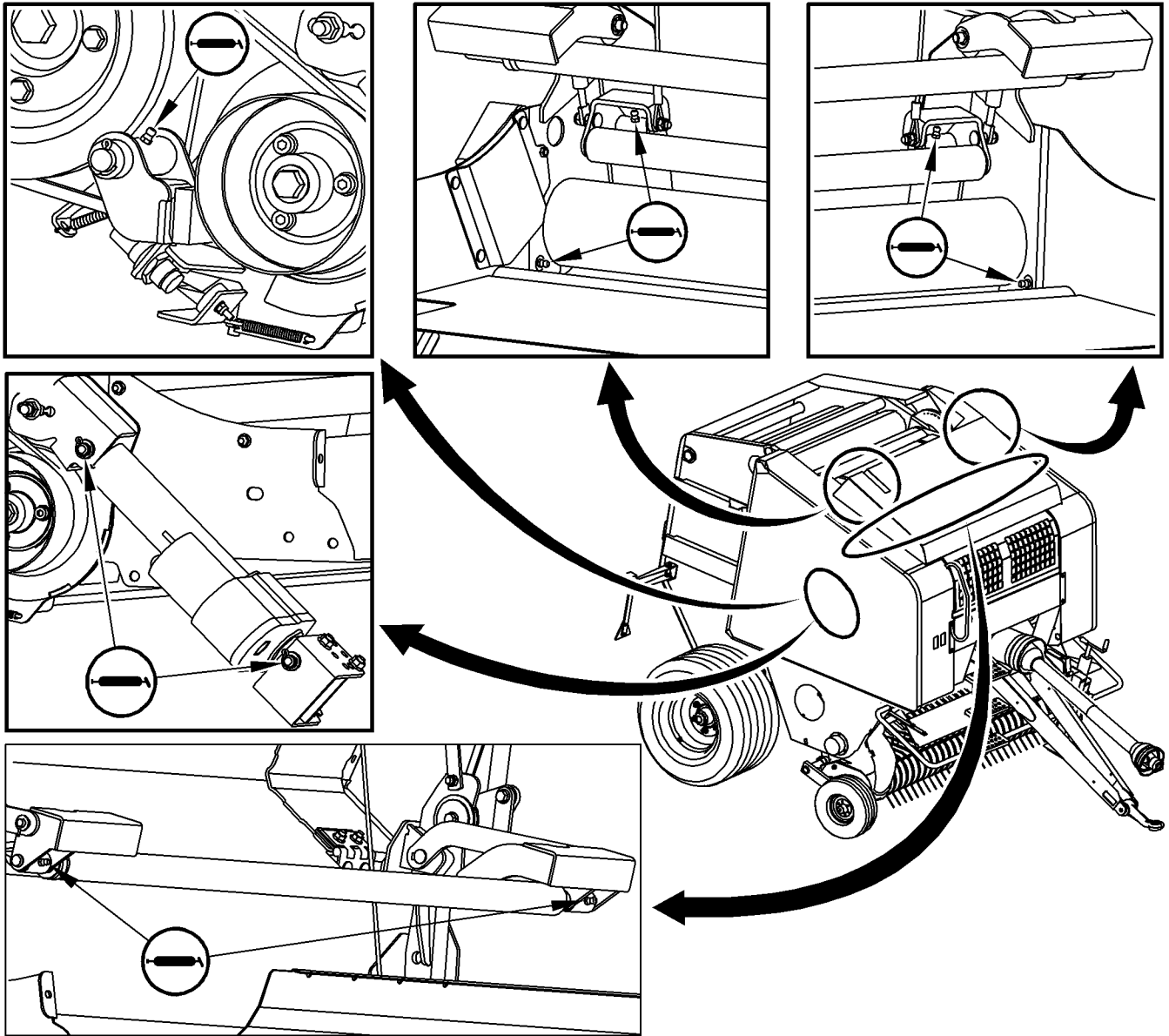
B—Caster gauge wheel

Lubricate with John Deere GREASE-GARD.

CC1028979 -UN-22DEC06

OUCC006,0001222 -19-11JAN07-1/1

Every 1000 Bales - CoverEdge™ Net Tying Device (up to S.N. 78999)



CC1029668

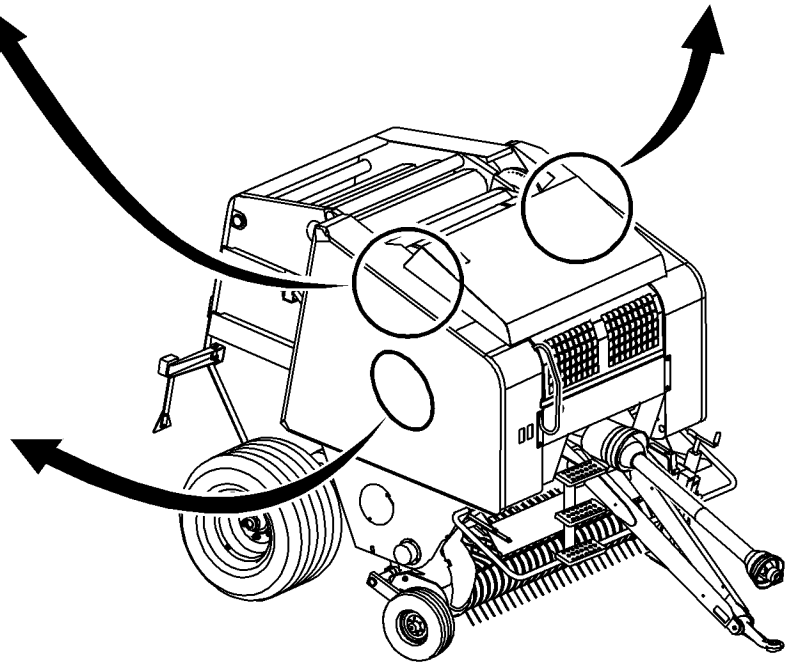
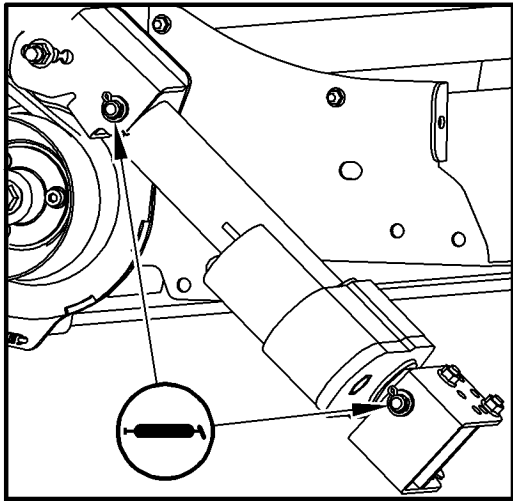
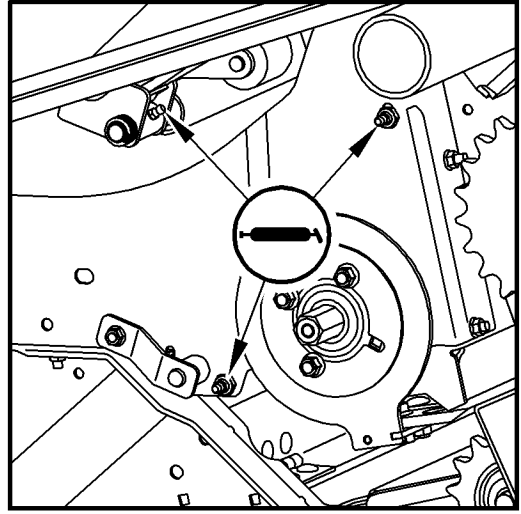
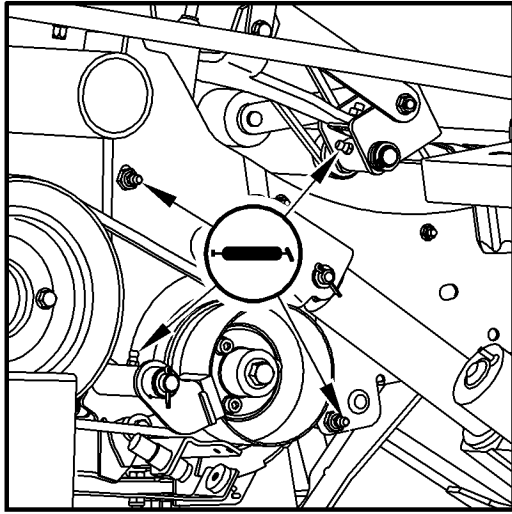
CC1029668 -UN-05SEP07

Lubricate with John Deere GREASE-GARD.

CoverEdge is a trademark of Deere & Company

OUC006,0001300 -19-25SEP07-1/1

Every 1000 Bales - CoverEdge™ Net Tying Device (from S.N. 80000)



CC1030025

Lubricate with John Deere GREASE-GARD.

CoverEdge is a trademark of Deere & Company

OUC006,0001301 -19-25SEP07-1/1

CC1030025 -UN-05SEP07

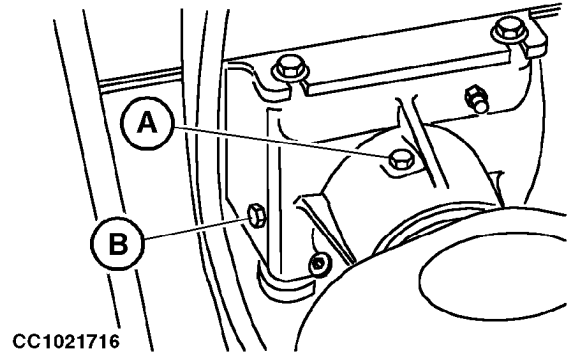
Every 1000 Bales - Gear Case Oil Level (Baler with Rotary Feeder Mounted Below Feeding Channel or Double Rotary Feeder)

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

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

Use a type of oil specified under "Gear Oil" in this section.

- A—Refill plug
- B—Level plug



CC1021716

CC1021716 -UN-29JUL02

OUCC006.0001237 -19-02FEB07-1/1

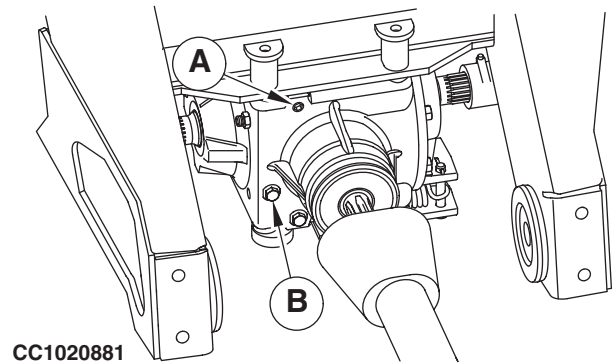
Every 1000 Bales - Gear Case Oil Level (Baler with Rotary Feeder)

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

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

Use a type of oil specified under "Gear Oil" in this section.

- A—Refill plug
- B—Level plug

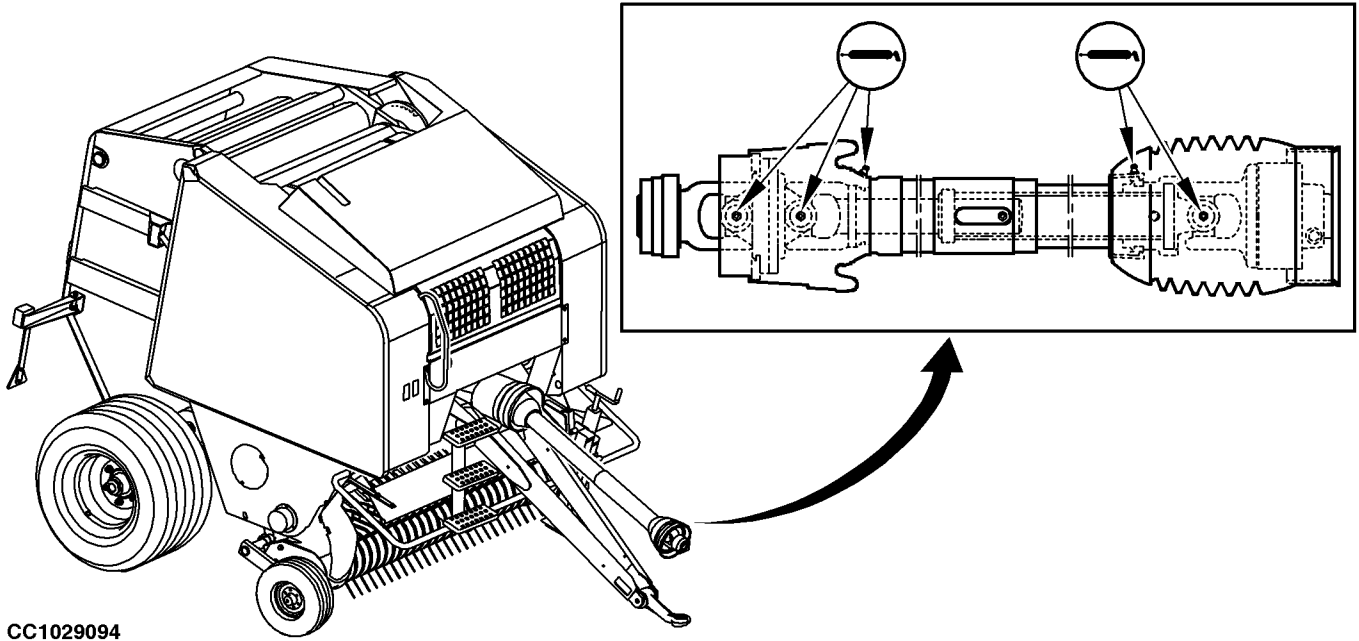


CC1020881

CC1020881 -UN-11DEC01

OUCC006.0000BD9 -19-11JAN07-1/1

Every 50 Hours - Powerline with Extended Greasing Interval (if Equipped)



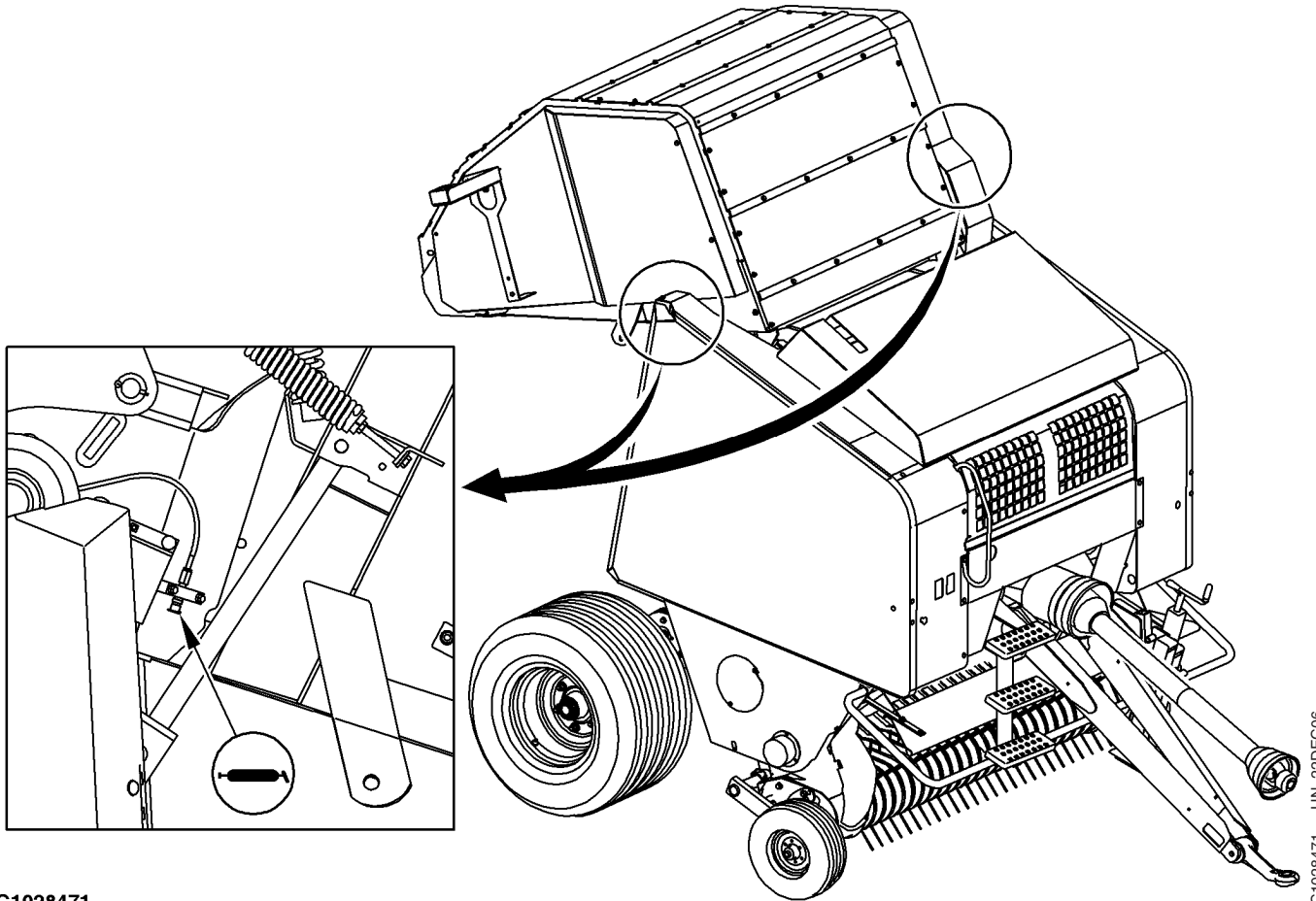
CC1029094

Lubricate with John Deere GREASE-GARD.

CC1029094 -UN-22DEC06

OUCC006,0001246 -19-15DEC06-1/1

Every 50 Hours - Bearings (MultiCrop Baler)



CC1028471

Open rear gate and shut off tractor.

Lubricate with John Deere GREASE-GARD.

Position gate lock valve in locked position. Refer to "Gate Lock Valve" in "Operating the Baler - General Purposes" section.

OUC006,0001104 -19-18DEC06-1/1

CC1028471 -JUN-22DEC06

Weekly - Checking and Draining Air Brake Tank

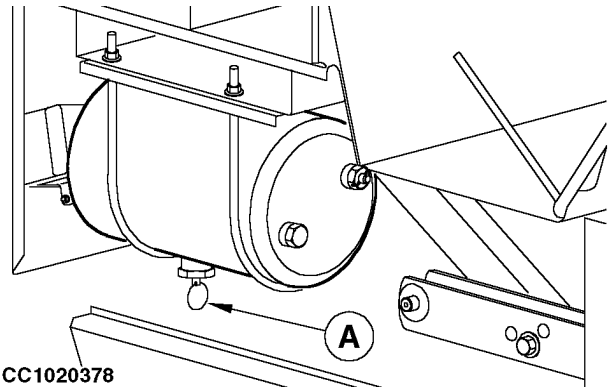


CAUTION: Before draining condensed water from the compressed air tank, make sure that the machine is secured against rolling away. Apply the parking brake and place wheel chocks under the wheels.

Pull ring (A) to drain water from the air tank.

Condensation in braking system may cause malfunctions.

A—Ring



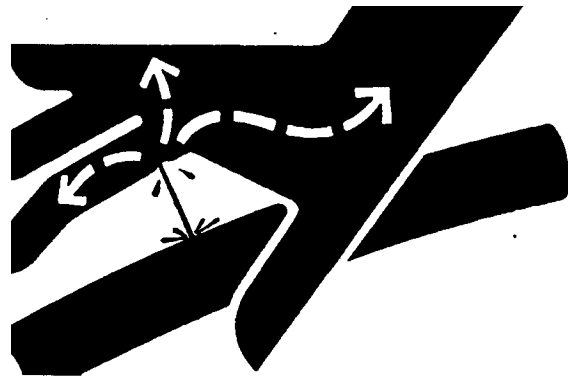
CC1020378 -JUN-30AUG01

CC03745,00002B3 -19-27AUG01-1/1

Every 100 Hours - Hydraulic Hoses

Check condition of hydraulic hoses every 100 hours or monthly, whichever comes first.

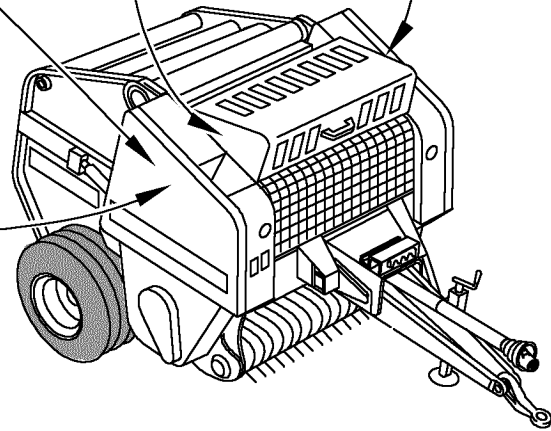
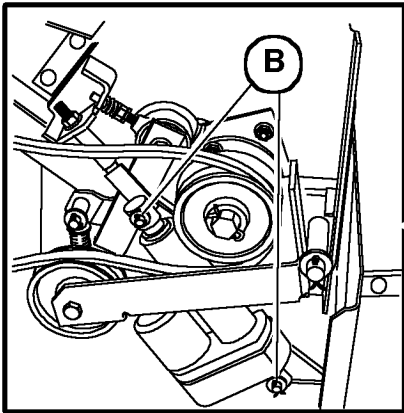
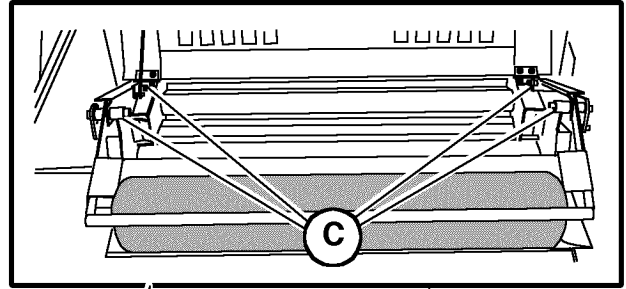
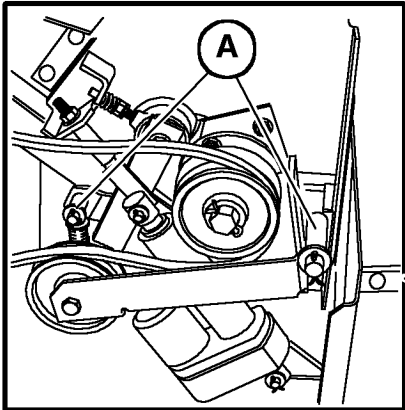
Check more often if working in rough conditions.



X9811 -JUN-23AUG88

CC03745,00002B4 -19-27AUG01-1/1

Every 2000 Bales or Yearly - Standard Net Tying Device (If Equipped)



ZX007274

A—Idler pivots

B—Cylinder pins

C—Net box brake pivots

Lubricate with John Deere GREASE-GARD.

CC007274 -UN-06MAY96

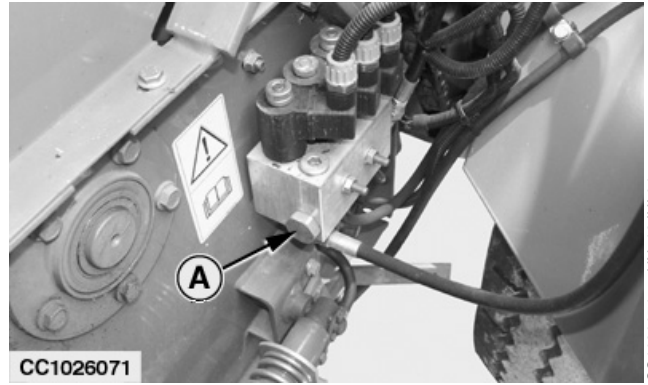
OUC006.00011EF -19-13DEC06-1/1

Every 2000 Bales or Yearly - Changing Hydraulic Valve Filter (Baler with BaleTrak Plus Control)

Change hydraulic valve filter (A) every 2000 bales or yearly whichever come first.

See your John Deere dealer to obtain a new filter.

A—Filter



OUCC006,0000BEC -19-11JAN07-1/1

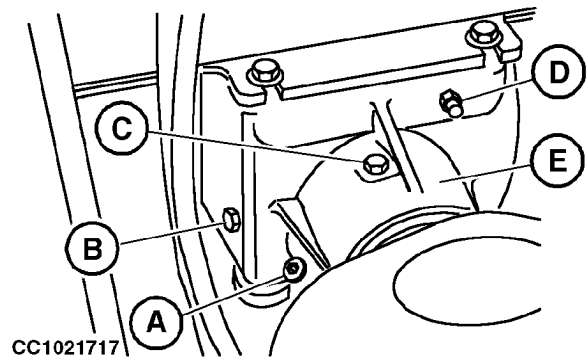
Every 4000 Bales or Yearly - Draining and Refilling Gear Case (Baler with Rotary Feeder Mounted Below Feeding Channel or Double Rotary Feeder)

Drain and refill gear case (E) every 4000 bales or yearly whichever come first.

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

Clean drain plug (A) before reinstalling it, then add 1.7 l (0.45 US gal) of oil. This amount corresponds to the level plug (B) bore.

Use a type of oil specified under "Gear Oil" in this section.



- A—Drain plug
- B—Level plug
- C—Refill plug
- D—Breather
- E—Gear case

OUCC006,0001238 -19-02FEB07-1/1

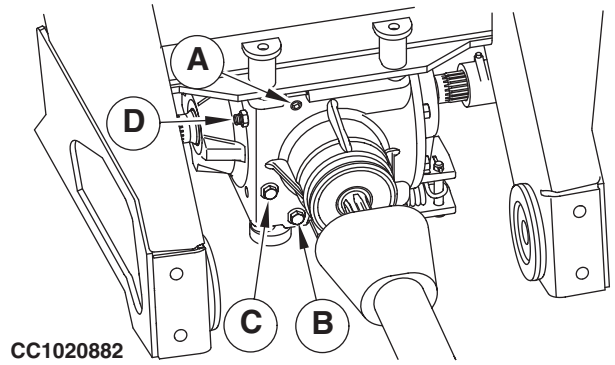
Every 4000 Bales or Yearly - Draining and Refilling Gear Case (Baler with Rotary Feeder)

Drain and refill gear case every 4000 bales or yearly whichever come first.

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

Clean drain plug (B) before reinstalling it, then add 2 l (0.53 US gal) of oil. This amount corresponds to the level plug (C) bore.

Use a type of oil specified under "Gear Oil" in this section.

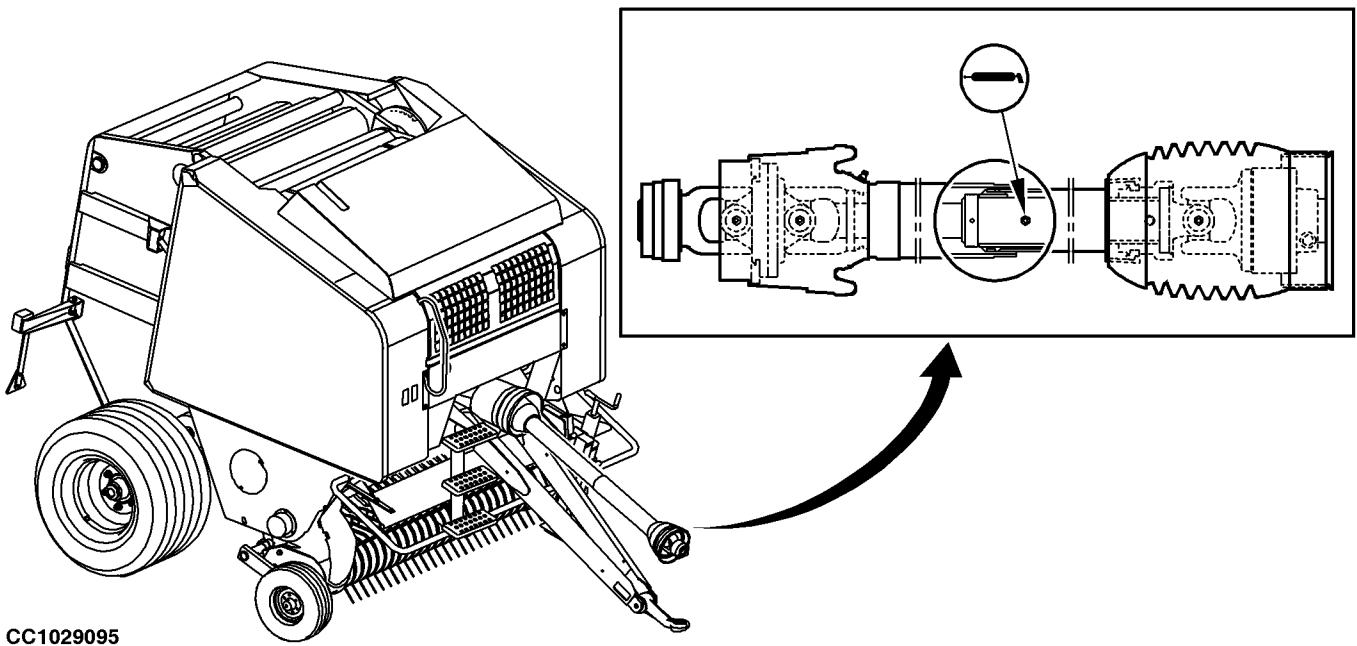


- A—Refill plug
- B—Drain plug
- C—Level plug
- D—Breather

CC1020882 -UN-11DEC01

OUCC006,0000BEF -19-02FEB07-1/1

Every 250 Hours or Yearly - Powerline with Extended Greasing Interval (if Equipped)



Lubricate with John Deere GREASE-GARD.

CC1029095 -UN-22DEC06

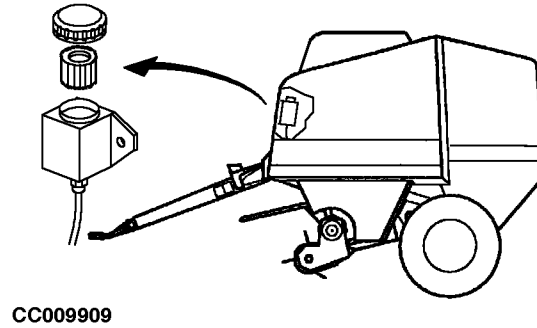
OUCC006,000124A -19-15DEC06-1/1

Yearly - Changing Lubrication System Oil Filter (up to S.N. 49999)

Change chain lubrication oil filter each year.

To change oil filter:

1. Drain oil tank.
2. Remove tank from its support.
3. Turn tank upside down to change oil filter.

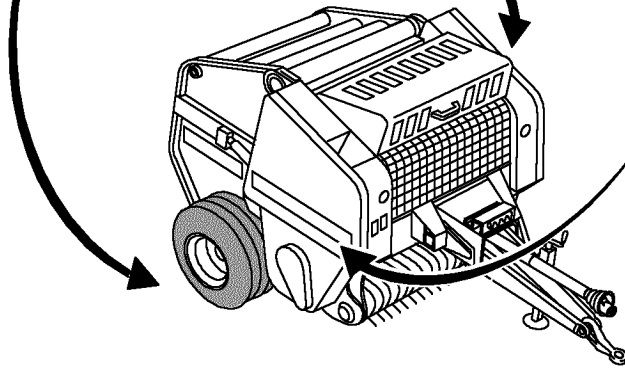
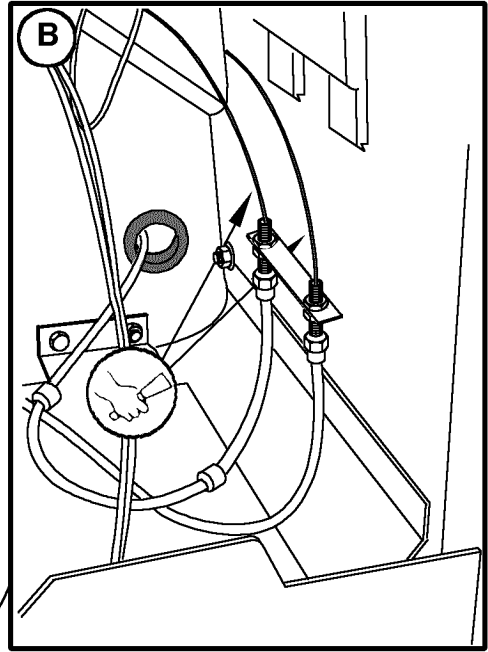
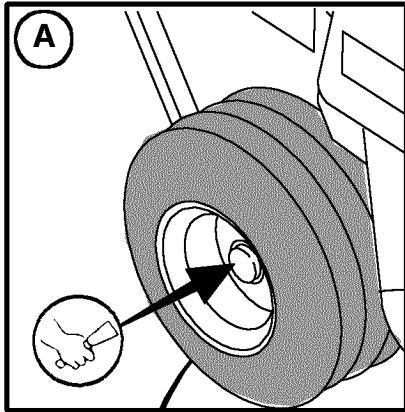


CC009909

CC009909 -JUN-17FEB97

OUCC006,00010F2 -19-11JAN07-1/1

Yearly - Wheels and Bale Shape Indicator



CC007273

CC007273 -UN-07MAY96

A—Wheel Bearings

B—Bale shape indicator bowden cables

Remove wheels. Clean bearings.

Lubricate with John Deere GREASE-GARD.

Repack and adjust bearings.

Tighten nuts to the following specification:

	Specification
Wheel Nut (Baler without Brake)—Torque	115 N•m (85 lb-ft)

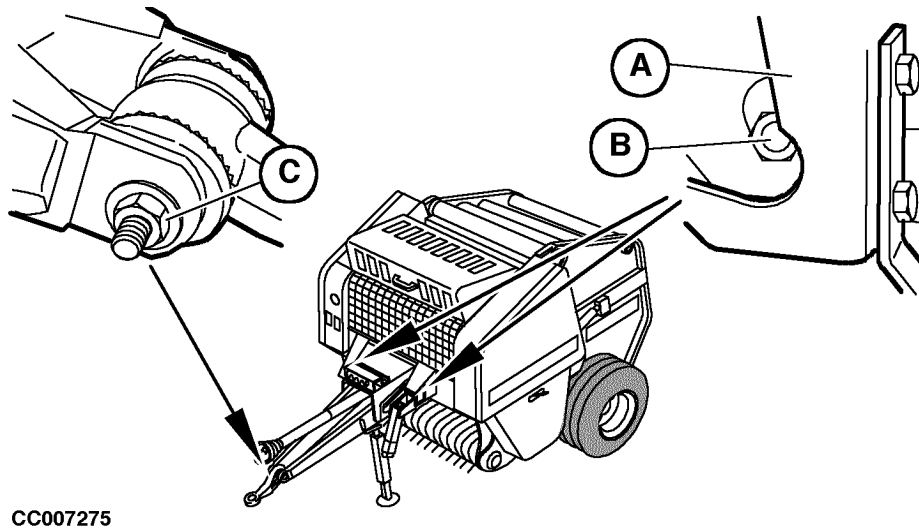
Wheel Nut (Baler with Brake)—Torque.....	210 N•m (155 lb-ft)
--	------------------------

Remove cables. Clean, lubricate and adjust cables.

Lubricate with John Deere GREASE-GARD.

OUCC006.00010F4 -19-11JAN07-1/1

Yearly - Baler Tongue



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).

NOTE: Shielding removed for illustration purposes.

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

CC03745,00002A7 -19-27AUG01-1/1

Every 6 Years - Hydraulic Hoses

Due to rubber lifetime, we advise you to change hydraulic hoses every 6 years.



OUCC006,0000EF8 -19-18JUL05-1/1

Troubleshooting

BaleTrak Control Monitor

Symptom	Problem	Solution
No pictogram displayed at LCD screen when switching ON.	Monitor not connected.	Connect monitor.
	Battery wiring harness not correctly connected.	Reconnect properly. See "Preparing the Tractor" Section.
Erratic monitor functions.	Battery charge level too low.	Battery should deliver at least 20 A.
	Battery voltage level below 7 V.	Monitor requires at least 12 V to function properly. Check or replace tractor battery.
	Battery wiring harness not correctly connected.	Reconnect properly. See "Preparing the Tractor" Section.
Oversize alarm at smaller bale size than the maximum.	Oversize switch not correctly adjusted	Adjust oversize switch. See "Service" section.
	Monitor not set for baler model.	See your John Deere dealer.

OUCC006.00010E1 -19-03JUL06-1/1

Twine Tying

Symptom	Problem	Solution
Twine too tight or twine breaks while tying.	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 engine 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 Tying".
	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 straighten rod.
	On left-hand side: Support of twine arm actuator misadjusted.	Readjust.
	Wrong Baletrak control setting.	Adjust to correct values.
	Barrel shaped bales.	Fill ends of bale by crowding windrow. See "Feeding the Material" in "Operating the Baler - General Purposes" Section.

Troubleshooting

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.	Straighten 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 slowly from right to left.	Battery charge level too low.	Check battery charge (at least 20 A).
Twine arm will not move.	Wrong connection on electric cylinder.	Repair.
	Defective bale tying monitor.	Repair or replace as necessary.
	Malfunction of bale tying monitor.	Check battery charge (at least 20 A).

OUCC006,000074C -19-02AUG02-2/2

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 - General Purposes" 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.
	Rotary feeder pickup cam clutch worn out.	See your John Deere Dealer.
	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.	

Continued on next page

OUCC006,0001239 -19-04DEC06-1/2

Troubleshooting

Symptom	Problem	Solution
Baler will not bale short, dry, slick crops.	Short and brittle straw.	Install the straw bar. See "Operating the Baler - General Purposes" Section. Install belt kit. See "Attachments" 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.
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.

OUCC006,0001239 -19-04DEC06-2/2

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.
	Rotary feeder pickup cam clutch damaged.	Replace cam clutch. See your John Deere dealer.
	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

OUCC006,000123A -19-04DEC06-1/2

Troubleshooting

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.

OUC006.000123A -19-04DEC06-2/2

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.

OUC006.00010E2 -19-05JAN07-1/1

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.
Bale sticks in chamber.	New baler.	Reduce density until baler has made several bales to polish side sheets.
	Gate deflectors not installed.	Install gate deflectors. See your John Deere dealer.
	Bale density too high.	Lower bale density at control valve. See "Operating the Baler - General Purposes" Section.

Troubleshooting

Symptom	Problem	Solution
Excessive shear bolt breakage.	Tractor PTO engaged too fast.	Engage PTO slowly.
	Wrong size or grade of shear bolt.	Replace with recommended shear bolt.

OUCC006.00010E3 -19-13DEC06-2/2

Silage Difficulties

Symptom	Problem	Solution
Plugging the baler by feeding a too large bunch of silage.	Irregular windrows.	Adapt drive speed to windrow size. Re-engage PTO at lowest engine rpm. If unsuccessful, then discharge bale and clean inside of baler. See "Unplugging Baler" in "Operating the Baler - General Purposes" Section.
	Straw bar reducing feed opening.	Reverse rotary feeder drive. See "Operating BaleTrak Monitor" section. Remove the straw bar. See "Operating The Baler - General Purposes" Section.

OUCC006.00010E4 -19-04DEC06-1/1

Standard Net Tying Device Difficulties (If Equipped)

Symptom	Problem	Solution
Bale not tied (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 and Installing 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 "Adjusting Roll Scrapers" in "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 (1 ft 0.6 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.	

Troubleshooting

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 tied (with "end of cycle" beep).	Net around sticky rolls of baler.	Clean the relevant rolls.
Bale tied (no "end of cycle" beep).	Net microswitch broken, bent or not adjusted.	Check and/or replace microswitch. See "Service" section.
Bale not uniformly tied or not tied.	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 and Installing Net Feed Roll Drive Belt" in "Service" section.
	Net idler roll (NR 20) not correctly installed.	See your John Deere dealer.
	Net tying cover not closed.	Cover must be closed and latched for best results.
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.

Continued on next page

OUCC006.00010E5 -19-17JAN07-2/3

Troubleshooting

Symptom	Problem	Solution
	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.
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.	Small net roll behind braking bar.	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 and Installing Net Feed Roll Drive Belt" in "Service" section.
	The strength is not sufficient to brake the net roll.	Adjust the strength applied on the net roll. See "Adjusting Net Tying Strength" in "Service" section.

OUCC006.00010E5 -19-17JAN07-3/3

CoverEdge Net Tying Device Difficulties (If Equipped)

Symptom	Problem	Solution	
Bale not tied (no "end of cycle" beep).	No good contact between galvanized roll and rubber roll.	See "Checking Galvanized Roll Flatness" in "Service" section.	
	Net roll empty.	Install a new net roll.	
	Net drive rolls not engaged.	Check net roll rotation using net indicator and check belt tension. See "Adjusting Net Tying Drive Belt Tension" in "Service" section. Replace drive belt. See "Removing and Installing Net Tying Drive Belt" in "Service" section.	
	Net rolled up around rubber roll.		See "Removing Net Wrapped Around Feed Rolls" in "Service" section.
			Adjust counter-knife and rubber pad position. See "Adjusting Counter-Knife Position" in "Service" section.
			Clean feed rolls. See "Care of Net Tying Device" in "Preparing the Baler" section.
			Check that net roll diameter is not greater than 300 mm (11.8 in.).
	Net rolled up around rubber roll after the first bale of the day.		Disengage net from net feed rolls if baler must stand over night or more than 10 hours without operation.
	Net not engaged properly (new roll).		Restart net installation. See "Loading Net Roll" in "Preparing the Baler" section.
	Feed rolls sticky or damaged.		Clean feed rolls. See "Care of Net Tying Device" in "Preparing the Baler" section.
See your John Deere dealer.			

Troubleshooting

Symptom	Problem	Solution
	Net sticky from packaging.	Cut off sticky area.
Bale not tied (with "end of cycle" beep).	Net around sticky rolls of baler.	Clean the relevant rolls.
Bale tied (no "end of cycle" beep).	Net sensor broken or not adjusted.	Adjust and/or replace sensor. See "Adjusting Net Cut Sensor" in "Service" section.
Bale not uniformly tied or not tied.	Net tying cover gas spring(s) defective.	Check springs on both sides of the net tying cover. Replace if necessary.
	Net tying cover not closed.	Cover must be closed for best results.
	Net drive belt too long.	Replace drive belt. See "Removing and Installing Net Tying Drive Belt" in "Service" section.
Net not cut.	Specified net quality not used.	Use recommended net quality.
	Electrical components defective.	Check and/or replace parts.
	Dull knife.	Sharpen knife. See "Service" section.
	Rubber roll brake not correctly adjusted.	Adjust net feed roll brake. See "Adjusting Rubber Roll Brake" in "Service" section.
	Counter-knife not all across the width in contact with net knife.	Adjust counter-knife position. See "Adjusting Counter-Knife Position" in "Service" section.
Buzzer stays on after net is cut.	Spring missing on net cut detection plate.	Replace spring.
Net not tight around bale.	Net tying cover gas spring(s) defective.	Check springs on both sides of the net tying cover. Replace if necessary.
	Small net roll behind press roll.	Check that roll of net (when small) is not behind press roll. See "Preparing the Baler" section.

Continued on next page

OUCC006,0001248 -19-19JAN07-2/3

Troubleshooting

Symptom	Problem	Solution
	Net drive belt too long.	Adjust stretch. See "Adjusting Net Tying Stretch" in "Operating the Baler - General Purposes" section. Replace drive belt. See "Removing and Installing Net Tying Drive Belt" in "Service" section.
Cover does not stay open.	Weak gas spring(s).	Replace gas spring(s).

OUCC006.0001248 -19-19JAN07-3/3

Chain Oiling System (up to S.N. 49999)

Symptom	Problem	Solution
Oil consumption too 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 - 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.

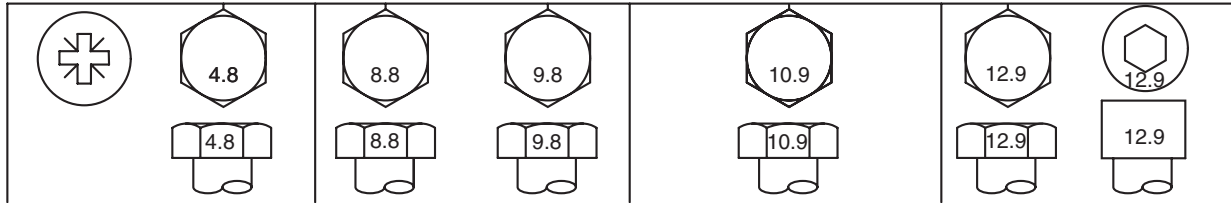
Chain Oiling System (from S.N. 50000)

Symptom	Problem	Solution
Oil consumption too high.	Main line interrupted.	Repair or replace.
	Oil too light.	Use a type of oil specified in "Lubrication and Maintenance" section. Reduce oil flow. See "Adjusting Chain Oiling System" and "Adjusting Oil Flow" in "Lubrication and Maintenance" section.
Oil consumption too low.	Oil too heavy.	Use a type of oil specified in "Lubrication and Maintenance" Section. Increase oil flow. See "Adjusting Chain Oiling System" and "Adjusting Oil Flow" in "Lubrication and Maintenance" section.
	Machine dry.	Pump inoperative resulting in no pressure. Main line interrupted. No oil in system. Air lock or pump empty. Heavy contamination resulting in blocked system. Line trapped.

OUCC006.000124B -19-11JAN07-1/1

Service

Metric Bolt and Screw Torque Values



TS1670 -UN-01MAY03

Bolt or Screw	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b	
Size	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in
M6	4.7	42	6	53	8.9	79	11.3	100	13	115	16.5	146	15.5	137	19.5	172
									N•m	lb-ft	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft
M8	11.5	102	14.5	128	22	194	27.5	243	32	23.5	40	29.5	37	27.5	47	35
			N•m	lb-ft	N•m	lb-ft	N•m	lb-ft								
M10	23	204	29	21	43	32	55	40	63	46	80	59	75	55	95	70
	N•m	lb-ft														
M12	40	29.5	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	46	80	59	120	88	150	110	175	130	220	165	205	150	260	190
M16	100	74	125	92	190	140	240	175	275	200	350	255	320	235	400	300
M18	135	100	170	125	265	195	330	245	375	275	475	350	440	325	560	410
M20	190	140	245	180	375	275	475	350	530	390	675	500	625	460	790	580
M22	265	195	330	245	510	375	650	480	725	535	920	680	850	625	1080	800
M24	330	245	425	315	650	480	820	600	920	680	1150	850	1080	800	1350	1000
M27	490	360	625	460	950	700	1200	885	1350	1000	1700	1250	1580	1160	2000	1475
M30	660	490	850	625	1290	950	1630	1200	1850	1350	2300	1700	2140	1580	2700	2000
M33	900	665	1150	850	1750	1300	2200	1625	2500	1850	3150	2325	2900	2150	3700	2730
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2770	4750	3500

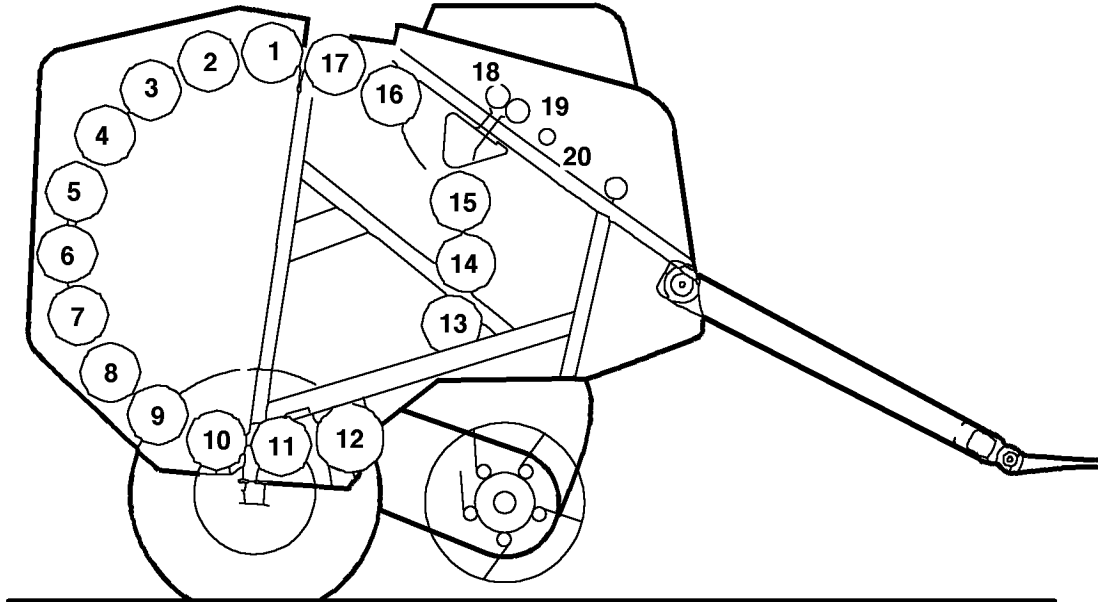
Torque values listed are for general use only, based on the strength of the bolt or screw. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For stainless steel fasteners or for nuts on U-bolts, see the tightening instructions for the specific application. Tighten plastic insert or crimped steel type lock nuts by turning the nut to the dry torque shown in the chart, unless different instructions are given for the specific application.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class. Replace fasteners with the same or higher property class. If higher property class fasteners are used, tighten these to the strength of the original. Make sure fastener threads are clean and that you properly start thread engagement. When possible, lubricate plain or zinc plated fasteners other than lock nuts, wheel bolts or wheel nuts, unless different instructions are given for the specific application.

^a“Lubricated” means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or M20 and larger fasteners with JDM F13C zinc flake coating.

^b“Dry” means plain or zinc plated without any lubrication, or M6 to M18 fasteners with JDM F13B zinc flake coating.

Baler Roll Numbering



CC015021

Baler with Roll Gate Shown

- | | | | |
|-------------------|----------------------------------|--|---------------------------------|
| 1—Upper gate roll | 2-9—Intermediate gate rolls | 14—Intermediate front frame drive roll | 17—Upper front frame drive roll |
| | 10—Lower gate roll | 15—Intermediate front frame roll | 18—Galvanized net feed roll |
| | 11—Lower front frame roll | 16—Intermediate front frame roll | 19—Rubber coated net feed roll |
| | 12—Starter roll | | 20—Net idler roll ¹ |
| | 13—Intermediate front frame roll | | |

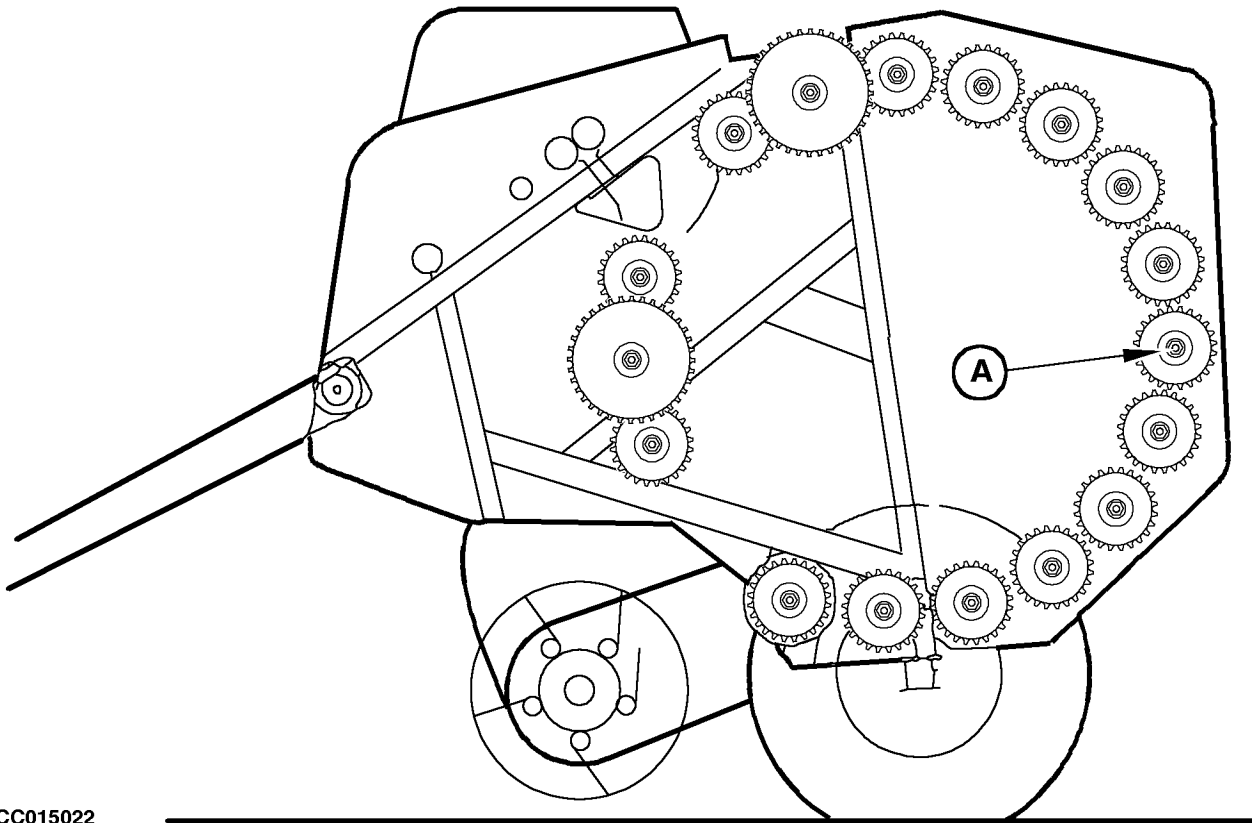
NOTE: Numbers shown above must not be used when ordering roll replacement parts. Always refer to relevant parts catalog.

¹Except for baler with CoverEdge net tying device

OUC006,00010D8 -19-02FEB07-1/1

CC015021 -UN-30NOV98

Tightening Roll Sprocket Fixing Nuts



CC015022

Rear Gate with Rolls Shown

A—Fixing nut

Roll sprocket fixing nuts (A) require specific torques.

Tighten all M30 nuts (A) to 850 N•m (616 lb-ft).

Tighten all M24 nuts (A) to 550 N•m (398 lb-ft).

CC015022 -JUN-30NOV98

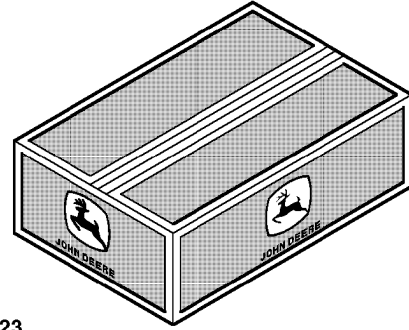
OUCC006,00010D9 -19-02FEB07-1/1

Use Genuine John Deere Parts

Genuine John Deere parts have been specifically designed for John Deere machines.

Other parts are neither examined nor released by John Deere. Installation and use of such products could have negative effects upon the design characteristics of the machine and thereby affect its safety.

Avoid this risk by using only genuine John Deere parts.



CC1020723

CC1020723 -UN-25OCT01

CC03745.0000C2E -19-22NOV06-1/1

Replacing Hydraulic Components

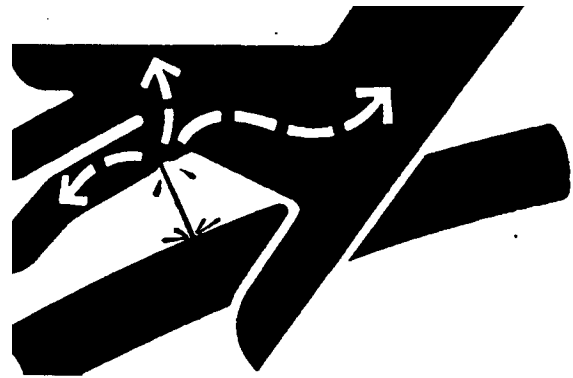


CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

Always relieve hydraulic pressure before servicing hydraulic components.

To prevent twisting the hydraulic tubes, use two wrenches when removing or connecting hoses to tubes.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.



X9811 -UN-23AUG88

CC03745.0000286 -19-23AUG01-1/1

Replacing Precutter Knives

CAUTION: DO NOT TAKE RISKS! To avoid injury or death by being cut by a knife, always close shut-off valve (B) before removing or replacing knives.

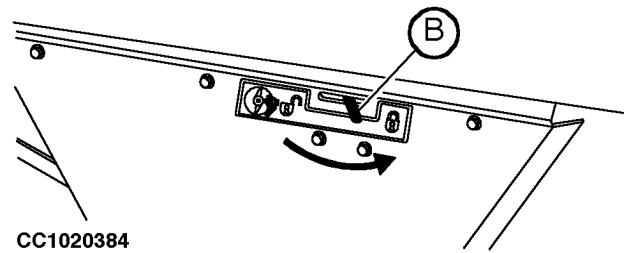
Each knife (A) can be separately removed and replaced. Proceed as follows:

1. Retract knives. (See "Retracting/Engaging Precutter knives" in "Operating the baler - General Purposes" and "Operating BaleTrak Control" Sections.)
2. Fully open the gate and secure it.
3. Pull the lever (C) out of its locking pin and lower it.
4. Knives can now easily be removed from the inside of the baler. Pull on knife (A) to remove it from bar (D) and nylon guide (E).

IMPORTANT: When a knife is no longer required, it is recommended to install the knife slot filler (F) instead. This will avoid crop accumulation at the hole provided by the missing knife.

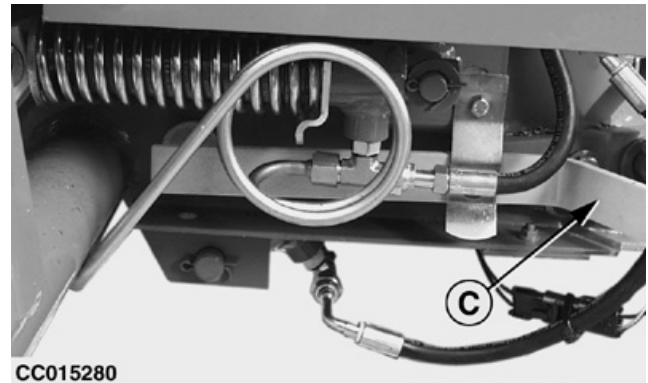
5. To install a knife, simply insert knife (A) first in nylon guide (E), then place it on the bar (D).
6. Raise and secure lever (C) in its locking pin.
7. Lower the gate.
8. Open shut-off valve (B).

- A—Knife
- B—Shut-off valve
- C—Lever
- D—Bar
- E—Guide
- F—Knife slot filler



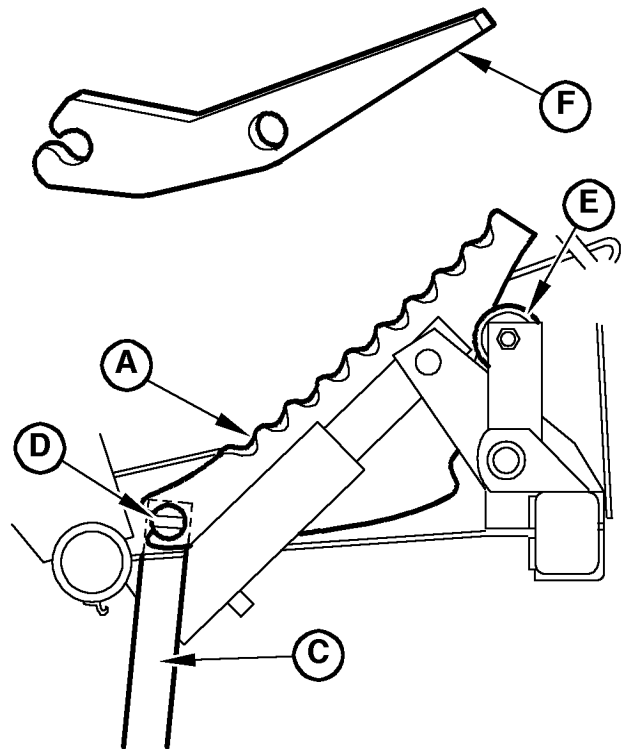
CC1020384

CC1020384 -UN-31AUG01



CC015280

CC015280 -UN-26AUG99



CC1020385

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Sharpening Precutter Knives

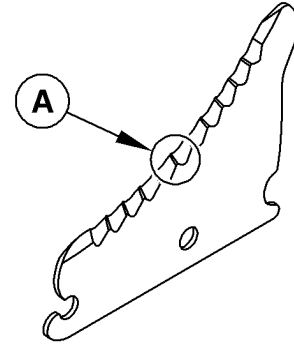
CAUTION: Prevent personal injury by wearing gloves to handle knives.

Remove knives from the machine. See "Replacing Precutter Knives" in this section.

Clamp knife to a bench or table.

Draw-file the smooth bevelled edge maintaining a 12° angle.

IMPORTANT: If teeth profile (A) disappears, replace knife.



CC1029106

A—Teeth profile

CC1029106 -UN-08JAN07

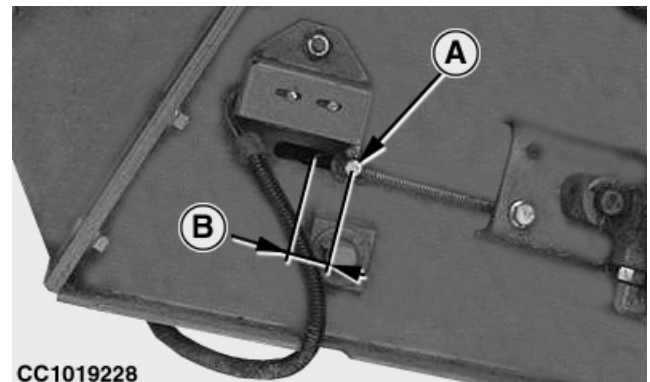
OUCC006,0001253 -19-11JAN07-1/1

Adjusting Precutter Knives Switch

Engage knives. (See Retracting/Engaging Precutter Knives in Operating BaleTrak Monitor section.)

Adjust switch so that a click is heard when the rod (A) is back of 1 cm (0.4 in.) (B) from home position.

- A—Rod
- B—1 cm (0.4 in.)



CC1019228

CC1019228 -UN-16FEB01

OUCC006,0000BE7 -19-17AUG04-1/1

Adjusting Baler Rotation Speed Sensor (Baler with BaleTrak™ Monitor)

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.

Rotate baler by hand so that the gear (A) is in position shown. See "Rotating Baler by Hand" in "Operating the Baler - General Purposes" section.

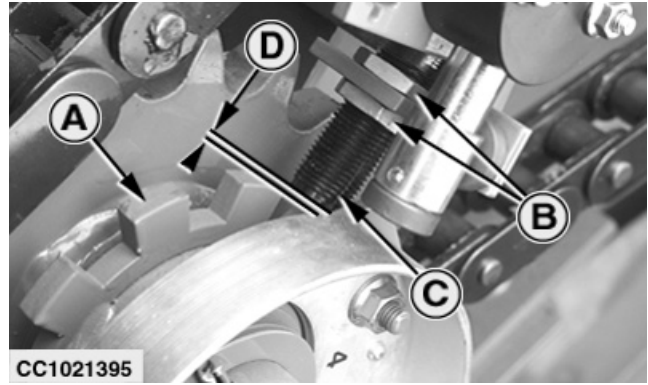
Loosen lock nuts (B) and slide sensor (C) to obtain specified distance (D) between sensor (C) and gear (A).

Specification

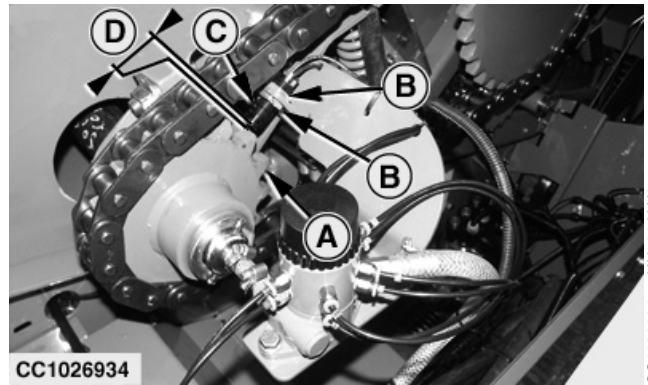
Sensor to Gear—Distance 2 ± 0.5 mm
(0.08 ± 0.02 in.)

Check that center line of sensor (C) is aligned with center line of gear (A).

Check sensor detection with monitor. See "Channel 017: Test of Baler Rotation Speed Sensor" in "BaleTrak Monitor Service" section.



Adjusting Baler Rotation Speed Sensor (up to S.N. 49999)



Adjusting Baler Rotation Speed Sensor (from S.N. 50000)

- A—Gear
- B—Lock nuts
- C—Sensor
- D—Distance

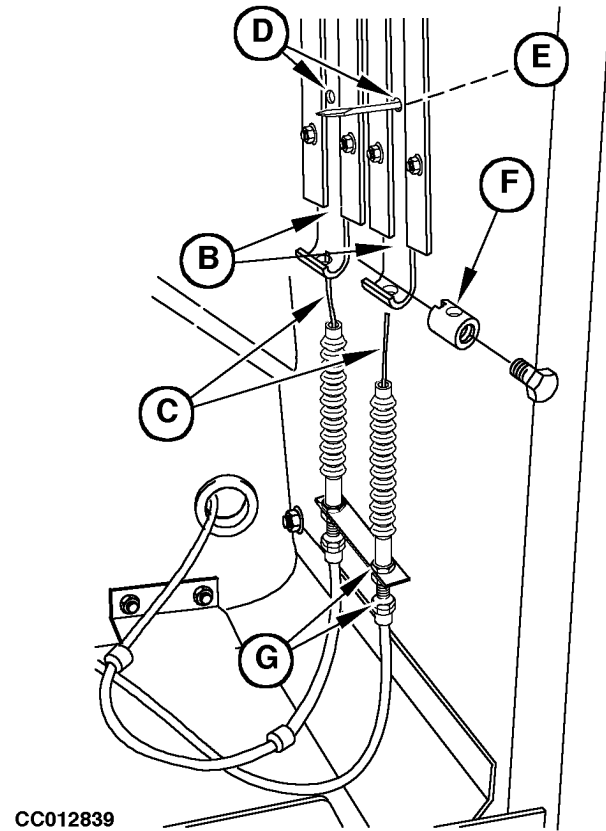
Adjusting Bale Shape Indicator Straps

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:

1. Align relevant strap hole (D) with the front sheet hole (E) by inserting a small screwdriver as shown.
2. Adjust cable clamp (F) until there is no play between clamp and strap (B) and tighten clamp.
3. 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

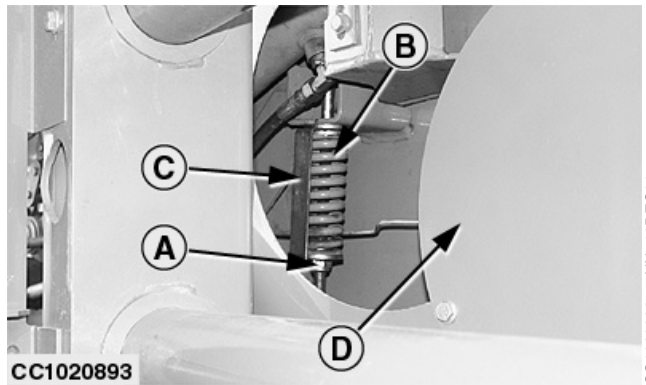
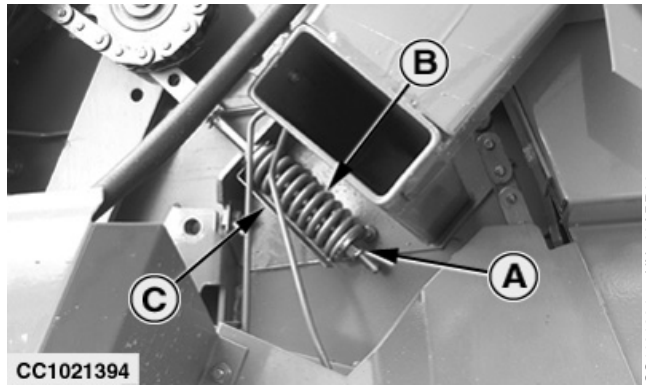
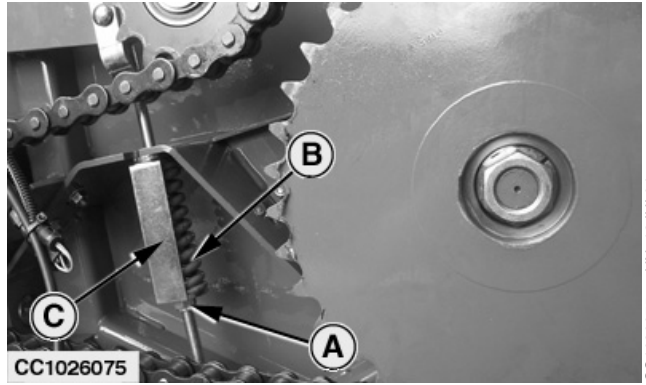


OUC006.000049F -19-06SEP01-1/1

Adjusting Main Drive Chains (Except for MultiCrop Baler)

Adjust tension on all roll 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



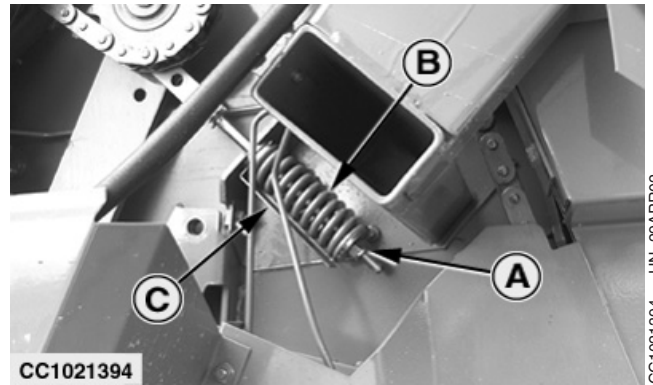
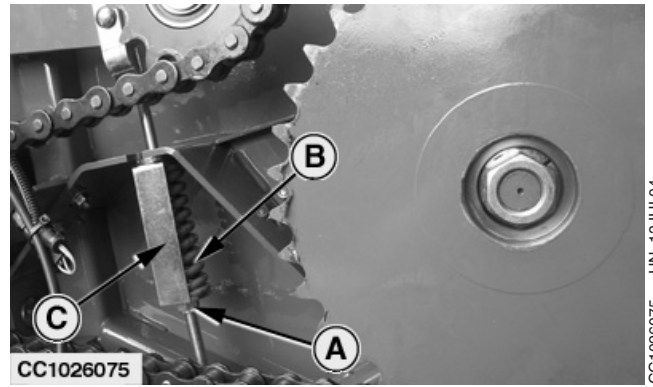
OUCC006.00010F9 -19-10JAN07-1/1

Adjusting Main Drive Chains (MultiCrop Baler)

1. Adjusting roll drive chains:

Adjust tension on all roll 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



Continued on next page

OUCC006.00010FA -19-02FEB07-1/2

2. Adjusting conveyor drive chains:

- a. Remove rear gate shields on both side.
- b. Check that distance (A) is within specifications.

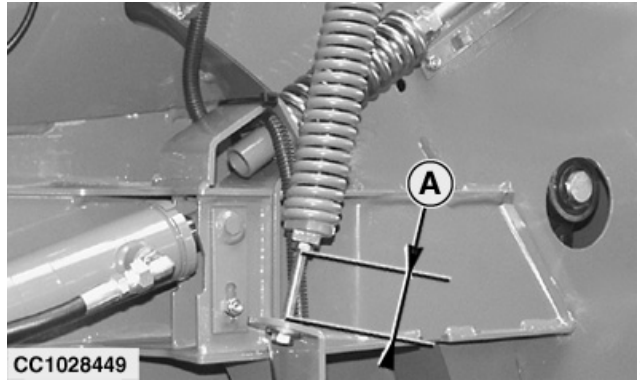
	Specification	
A—Distance.....		59 mm 2.32 in.

- c. If necessary, adjust distance (A).
- d. Check that distance (B) is within specifications on both side.

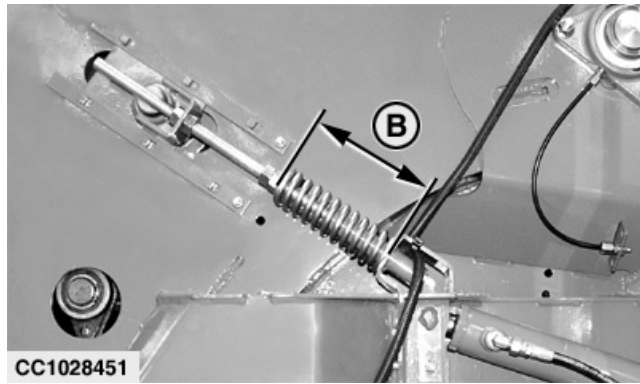
	Specification	
B—Distance.....		150 mm 5.91 in.

- e. If necessary, adjust spring length (B).
- f. Reinstall rear gate shields on both side.

A—Distance
B—Distance



Conveyor Drive Chain



Conveyor Chain

OUCC006,00010FA -19-02FEB07-2/2

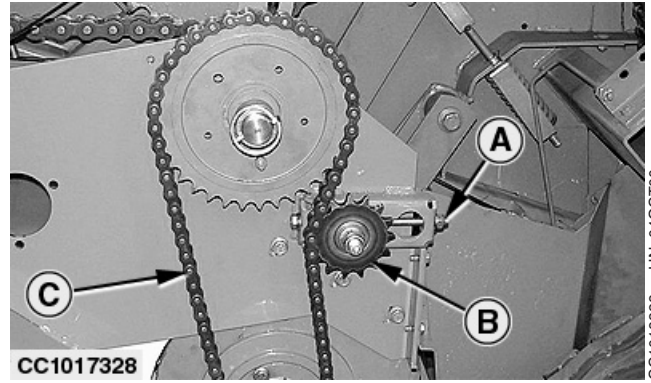
Adjusting 2.00 m (6 ft 6.7 in.) Pickup Drive Chains (Baler with Rotary Feeder Mounted Below Feeding Channel or Double Rotary Feeder)

Adjusting main drive chain

1. Baler with rotary feeder mounted below feeding channel

Adjust tension of main drive chain as follows:

- a. To ensure that all slack is removed from chain, close gate and engage PTO a few seconds. Shut off tractor engine.
- b. Loosen nut (A).
- c. Adjust tensioner (B) so that chain deflection at (C) is about 12 mm (0.47 in.).
- d. Tighten nut (A).
- e. Engage PTO a few seconds. Shut off tractor engine.
- f. Check the chain deflection and adjust if necessary.



A—Nut
B—Tensioner
C—Deflection check point

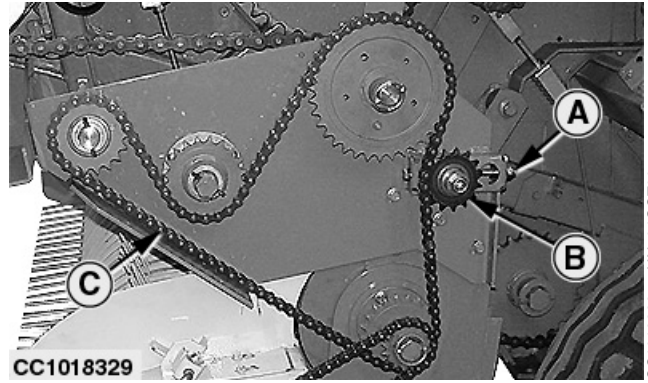
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OUCC006,000112B -19-02FEB07-1/3

2. Baler with double rotary feeder

Adjust tension of main drive chain as follows:

- a. To ensure that all slack is removed from chain, close gate and engage PTO a few seconds. Shut off tractor engine.
- b. Loosen nut (A).
- c. Adjust tensioner (B) so that chain deflection to (C) is about 18 mm (0.7 in.).
- d. Tighten nut (A).
- e. Engage PTO a few seconds. Shut off tractor engine.
- f. Check the chain deflection and adjust if necessary.



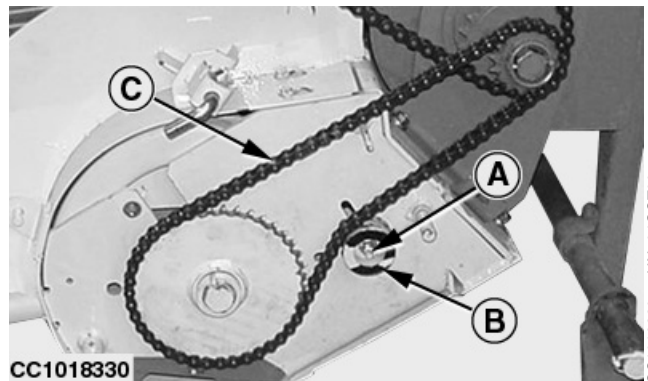
A—Nut
B—Tensioner
C—Deflection check point

OUCC006.000112B -19-02FEB07-2/3

Adjusting pickup drum drive chain

Adjust tension of pickup drum drive chain as follows:

1. To ensure that all slack is removed from chain, close gate and engage PTO a few seconds. Shut off tractor engine.
2. Loosen idler mounting screw (A).
3. Push idler (B) against chain so that chain deflection at (C) is about 12 mm (0.47 in.).
4. Tighten idler mounting screw (A).
5. Engage PTO a few seconds. Shut off tractor engine.
6. Check the chain deflection and adjust if necessary.



A—Idler mounting screw
B—Idler
C—Deflection check point

OUCC006.000112B -19-02FEB07-3/3

Adjusting 2.00 m (6 ft 6.7 in.) and 2.20 m (7 ft 2.6 in.) Pickup Drive Chains (Baler with Rotary Feeder)

NOTE: To ensure that all slack is removed from chain, close gate and engage PTO a few seconds. Shut off tractor engine.

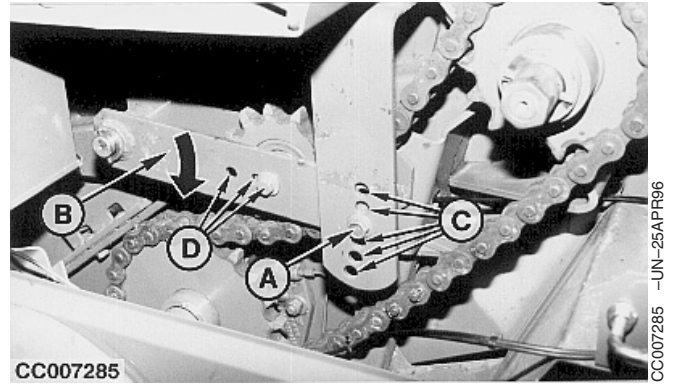
Adjusting main drive chain

Adjust tension of main drive chain as follows:

1. Fully loosen fixing screw (A) then press idler support (B) downward so that fixing screw (A) can be installed in one of the holes (C) which will allow the chain to be properly tightened.

IMPORTANT: Chain tension is correctly adjusted when chain deflection is 20 to 50 mm (0.8 to 2 in.).

2. If necessary, choose one of the three idler holes (D) positions so that the idler support can be fixed in one of the hole (C).
3. Firmly tighten fixing screw (A).



A—Fixing screw
B—Idler support
C—Holes
D—Idler hole

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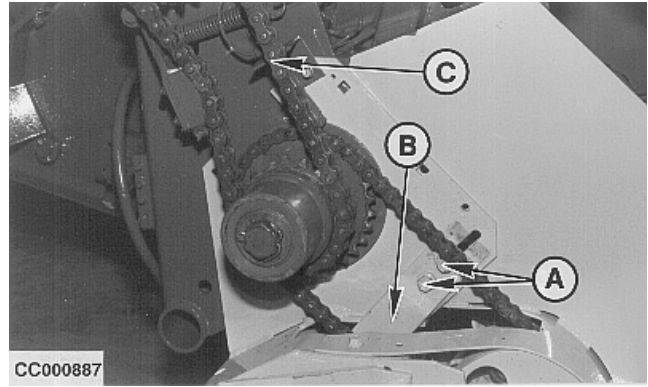
OUCC006.000112E -19-29NOV06-1/2

Adjusting pickup drive chains

Adjust tension of pickup drive chain as follows:

1. Loosen the two idler support mounting screws (A).
2. Press idler support (B) against chain so that chain deflection to the opposite strand of idler is about 10 mm (0.39 in.).
3. Tighten the two mounting screws (A).

NOTE: Intermediate drive chain (C) tension does not require adjustment.



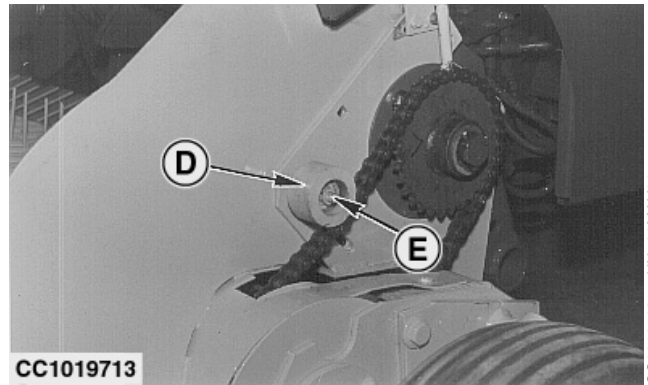
Adjusting left-hand auger drive chain

Adjust tension of left-hand auger drive chain as follows:

1. Loosen the idler support mounting screw (E).
2. Press idler (D) against chain so that chain deflection to the opposite strand of idler is about 10 mm (0.39 in.).
3. Tighten mounting screw (E) to 81 N•m (120 lb-ft).

Engage PTO a few seconds.

Check deflection of the chains. Repeat adjustments if necessary.



- A—Mounting screw
- B—Idler support
- C—Intermediate drive chain
- D—Idler
- E—Mounting screw

OUC006,000112E -19-29NOV06-2/2

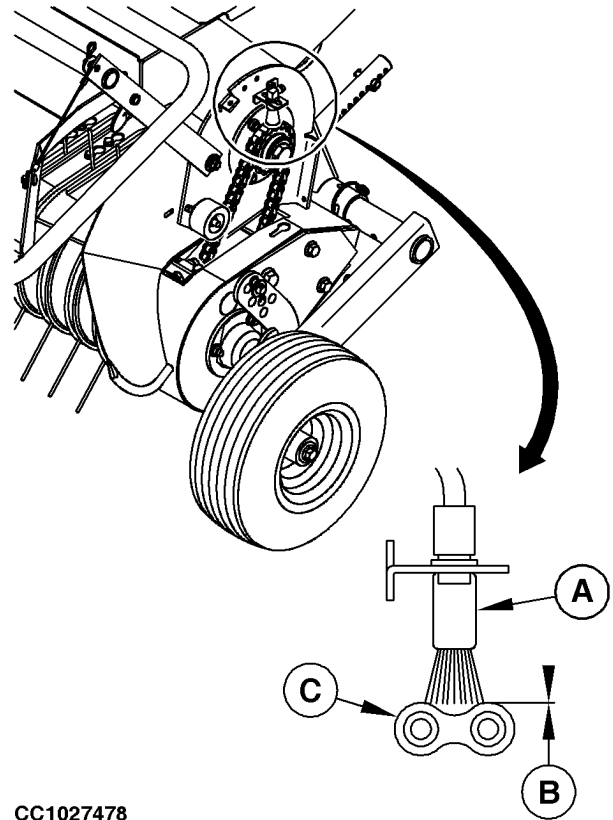
Adjusting Brushes

Adjust each brush (A) to obtain a contact (B) with chain (C).

This adjustment allows to clean and lubricate the drive chain correctly.

Other adjustments may lead to chain premature wear.

- A—Brush
- B—0 mm (0 in.)
- C—Chain



CC1027478

OUCC006.0000EF7 -19-19JUL05-1/1

CC1027478 -UN-11JUL05

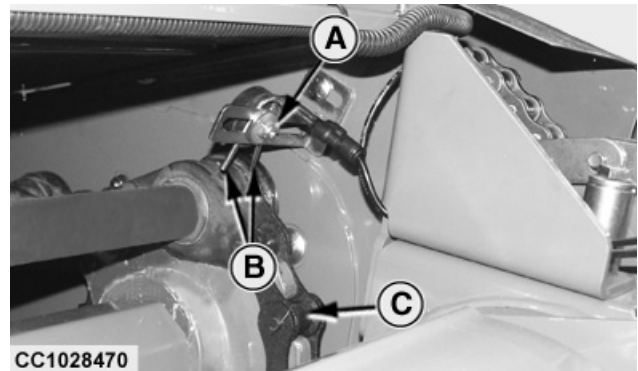
Adjusting Chain Oil Pipe (MultiCrop Baler)

1. Loosen nut (A).
2. Align each oil pipe (B) with chain (C) as shown.
3. Tighten nut (A).

This adjustment allows to lubricate chain (C) correctly.

IMPORTANT: Oil pipes (B) should not touch chain (C). Other adjustments may cause premature chain wear.

4. Repeat procedure on opposite side.



CC1028470

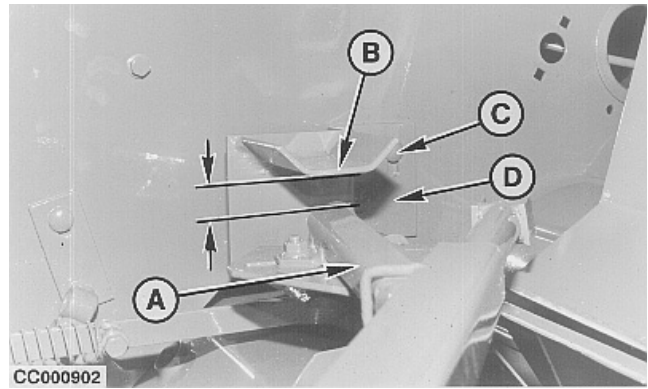
- A—Nut
- B—Oil pipe
- C—Chain

OUCC006.00010FB -19-19DEC06-1/1

CC1028470 -UN-21SEP06

Adjusting Single Arm Twine Cutter Anvil

1. Move twine arm (A) by means of control monitor until it is centered below knife anvil (B).
2. Loosen nuts (C).
3. 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.).
4. Retighten nuts (C).
5. Move twine arm to home position.



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

OUCC006.00004A6 -19-06SEP01-1/1

Adjusting Single Arm Twine Tying Starting Point (Baler without BaleTrak Control)

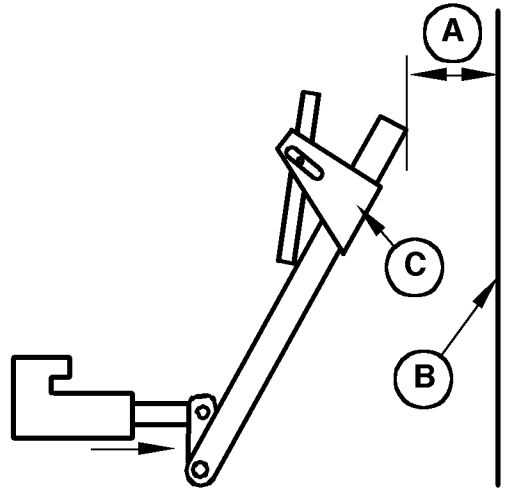
There must be a distance (A) of 80 to 150 mm (3.15 to 5.90 in.) between left-hand panel of bale chamber (B) and tip of twine arm (C). The twine arm must also exert a positive action on twine cutter linkage (D) on its way back to “home” position, otherwise twine will not be cut.

Adjust as follows:

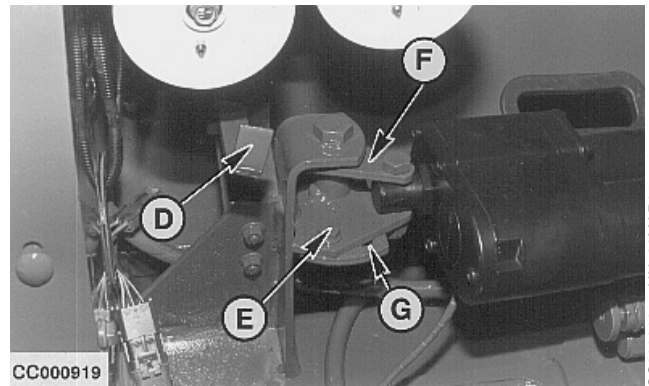
1. Move twine arm to the extreme left-hand position by means of the control monitor. The actuator is now fully extended.
2. Loosen cap screw (E).
3. Move actuator support (F) in slot (G) to obtain distance (A) from 80 to 150 mm (3.15 to 5.90 in.) and to obtain positive action of twine arm on twine cutter linkage.
4. Retighten cap screw (E).
5. Move twine arm to home position and check that positive action of twine arm on twine cutter linkage is obtained.

NOTE: This adjustment directly influences the twine arm re-extension point when using the baler with the ELC monitor. See “Operating ELC Monitor” 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

CC000906 -UN-21MAR95

CC000919 -UN-22MAR95

OUC006,000074E -19-02AUG02-1/1

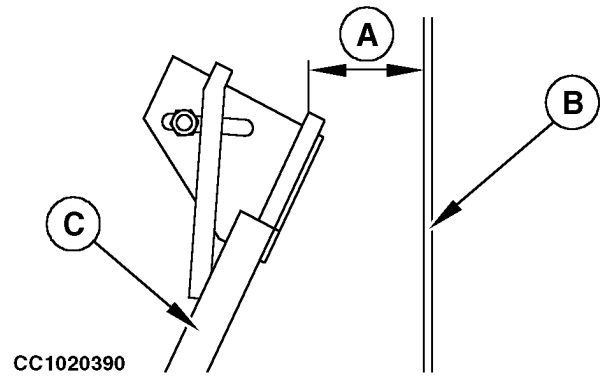
Adjusting Single Arm Twine Tying Starting Point (Baler with BaleTrak Control)

After having replaced or serviced the twine arm or the twine arm actuator, the twine arm starting point must be adjusted.

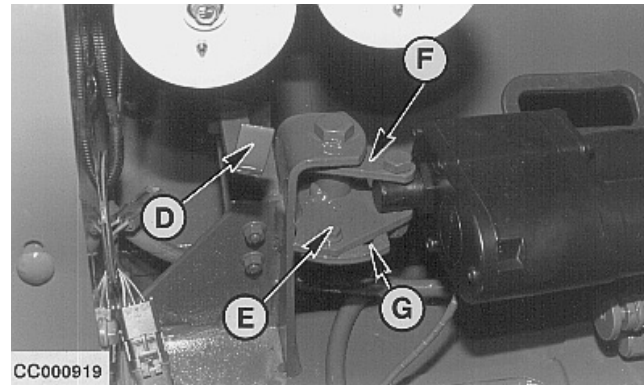
There must be a distance (A) of 80 mm (3.15 in.) between left-hand panel of bale chamber (B) and twine arm (C) when twine arm actuator is fully extended.

Adjust as follows:

1. Move twine arm to the extreme left-hand position by pressing "EXTEND" key. The actuator is now fully extended.
2. Loosen cap screw (E).
3. Move actuator support (F) in slot (G) to obtain specified distance (A).
4. Retighten cap screw (E).
5. Move twine arm to home position and check that twine arm has a positive action on twine cutter linkage.
6. Calibrate twine arm actuator. (See "Channel 029: Calibration of Twine Actuator" in "BaleTrak Monitor Service" section.)



CC1020390 -JUN-31AUG01



CC000919 -UN-22MAR95

- A—80 mm (3.15 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

OUCC006,000046F -19-29AUG01-1/1

Adjusting Twine Cutters (Double Arm Twine Tying)



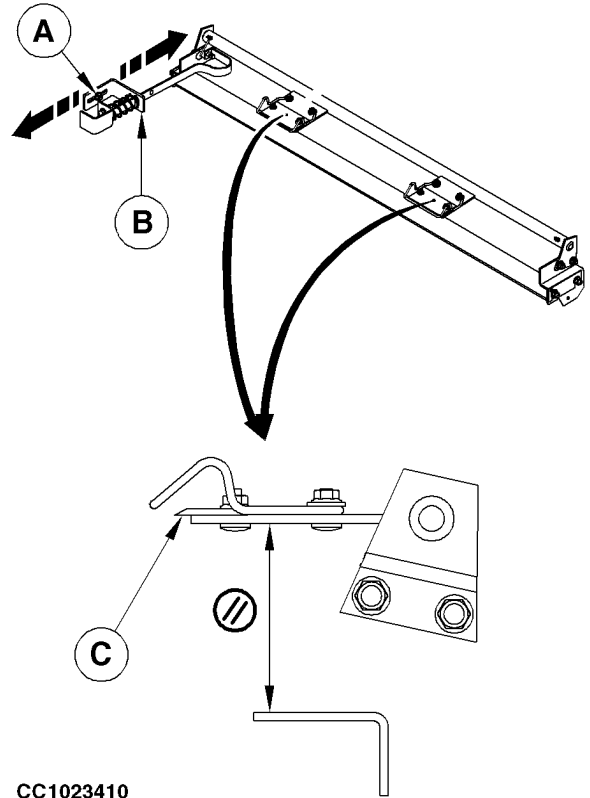
CAUTION: Keep clear of the machine while operating twine arms.

IMPORTANT: Be sure that the cutting face of cutters (C) is oriented in forward direction.

To adjust cutter high position, proceed as follows:

1. Slightly extend twine arms.
2. Switch off monitor.
3. Loosen nut (A).
4. Slide support (B) so that the cutters (C) are horizontal.
5. Tighten nut (A).

A—Nut
B—Support
C—Cutters



CC1023410

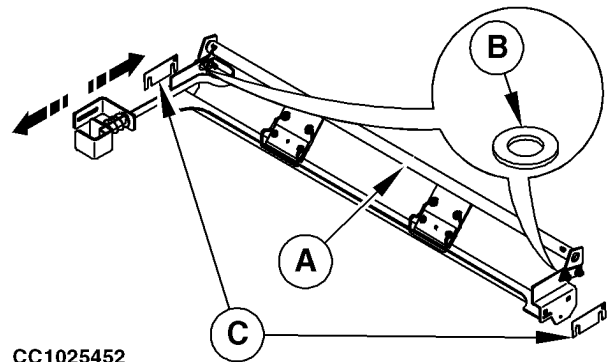
CC1023410 -UN-30SEP03

OUCC006,0000BC6 -19-02FEB07-1/5

6. Check that cutter bracket (A) turns freely.

- If not:
 - a. Add washer(s) (B) between anvil and cutter brackets.
 - b. Remove shim(s) (C) between anvil bracket and side panels.

A—Cutter bracket
B—Washer(s)
C—Shim(s)



CC1025452

CC1025452 -UN-15MAR04

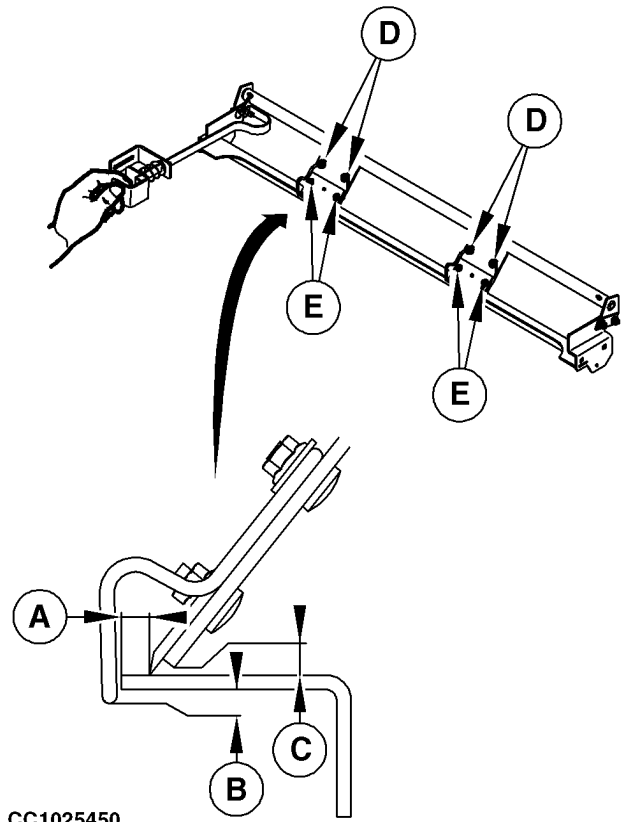
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OUCC006,0000BC6 -19-02FEB07-2/5

To adjust cutter low position and springs, proceed as follows:

1. Loosen bolts (D) and (E).
2. Right cutter adjustment:
 - a. Slide cutter to obtain a clearance (A) of 3.5 ± 0.5 mm (0.14 ± 0.02 in.) and a distance (C) above 1 mm (0.04 in.). The cutter edges must be in contact with the anvil.
 - b. Tighten bolts (E) of right cutter.
 - c. Slide spring to obtain a clearance (B) of 2.5 ± 0.5 mm (0.06 ± 0.02 in.).
 - d. Tighten bolts (D) of right spring.

A—Cutter clearance
 B—Spring clearance
 C—Distance
 D—Spring bolts
 E—Cutter bolts



CC1025450

CC1025450 -UN-15MAR04

Continued on next page

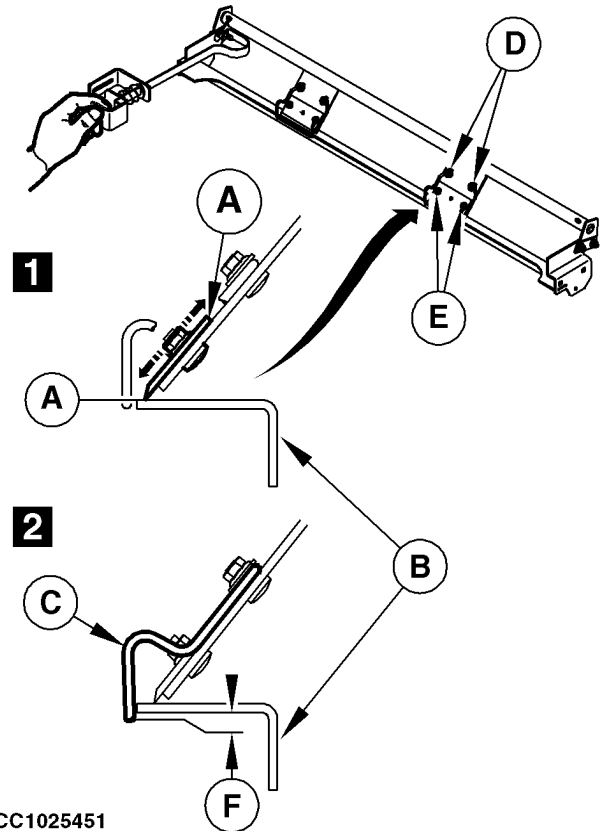
OUCC006,0000BC6 -19-02FEB07-3/5

3. Left cutter adjustment:

IMPORTANT: Always start by adjusting the right cutter.

- a. Slide cutter (A) to be in contact with anvil (B).
- b. Tighten bolts (E).
- c. Slide spring to obtain a clearance (F) of 2.5 ± 0.5 mm (0.06 ± 0.02 in.).
- d. Tighten bolts (D).

- A—Cutter
- B—Anvil
- C—Spring
- D—Spring bolts
- E—Cutter bolts
- F—Spring clearance



CC1025451

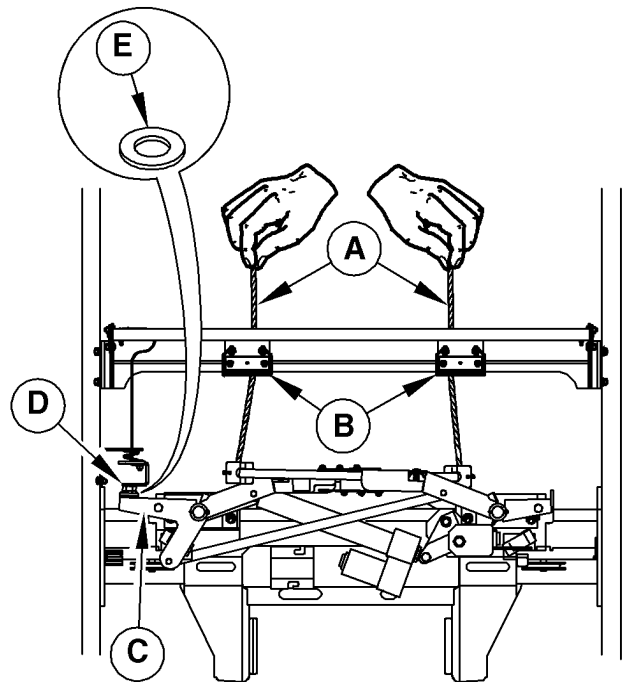
OUCC006.0000BC6 -19-02FEB07-4/5

CC1025451 -UN-15MAR04

Checking the cutting action:

1. Place twines (A) under cutters (B).
 2. Fully retract the arms.
 3. Pull on the twines (A). The twines should be cut.
- If not, add washer(s) (E) between right arm (C) and twine cutter linkage (D).

- A—Twines
- B—Cutters
- C—Right arm
- D—Twine cutter linkage
- E—Washer(s)

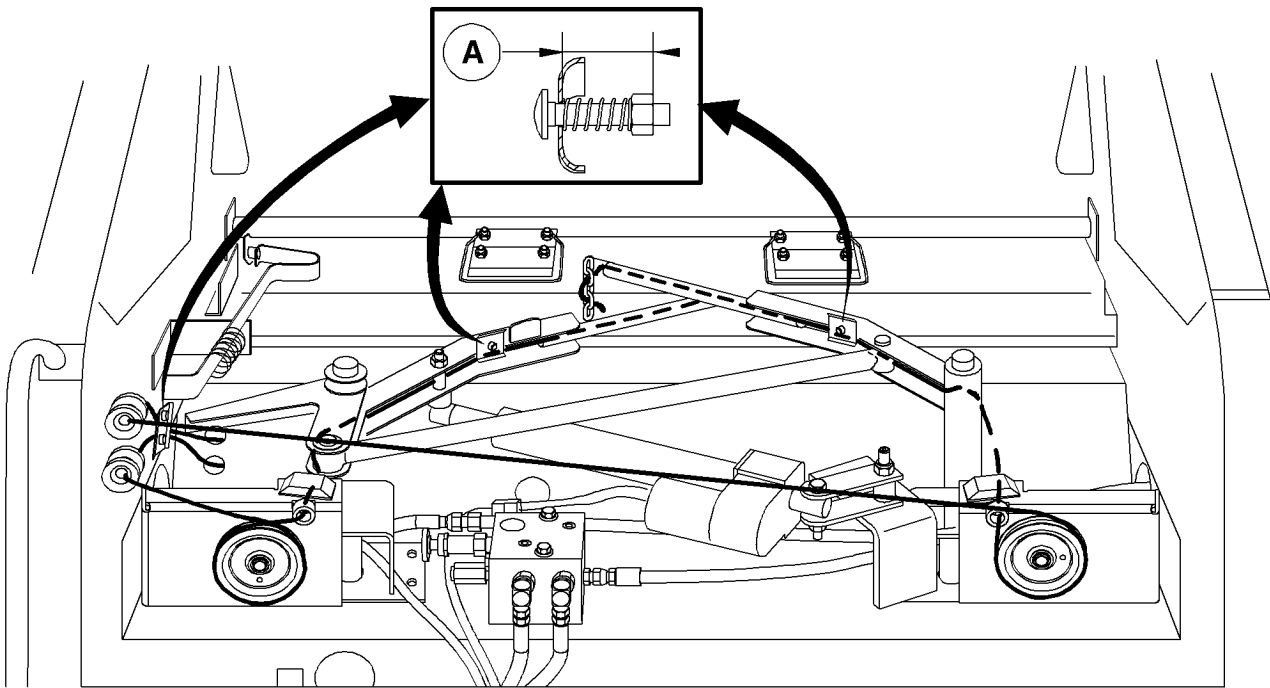


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CC1025453 -UN-16MAR04

Adjusting Tension Plates (Double Arm Twine Tying)



CC1023409

CC1023409 -UN-30SEP03

A—Spring length adjustment

Adjust spring length (A) to 35 ± 1 mm (1.4 ± 0.03 in.) by loosening or tightening nut.

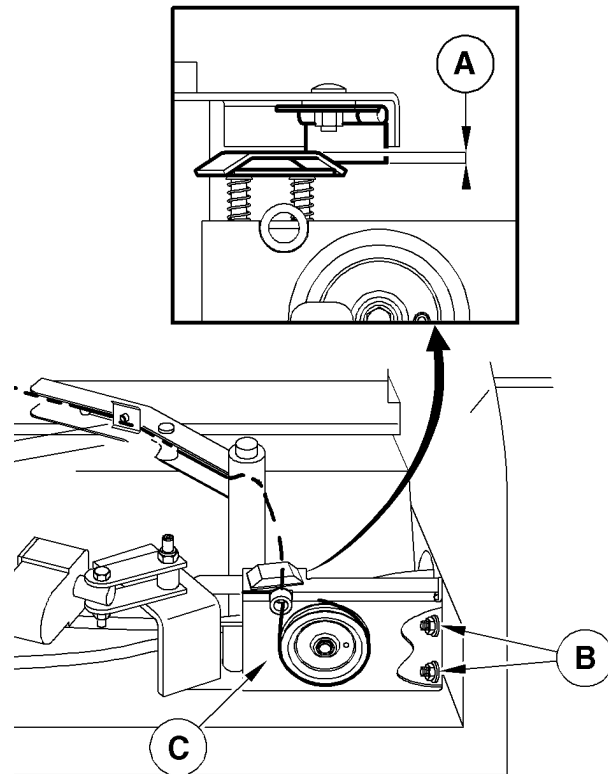
Repeat adjustment on the two other tension plates.

OUCC006,00009F6 -19-18SEP03-1/1

Adjusting Pulley Supports (Double Arm Twine Tying)

1. Loosen nuts (B).
2. Slide pulley support (C) to obtain a clearance (A) of 5 ± 1 mm (0.2 ± 0.04 in.).
3. Tighten nuts (B).
4. Repeat adjustment on the other pulley support.

A—Clearance
B—Nuts
C—Pulley support



CC1023471

OUCC006.00009FC -19-24SEP03-1/1

CC1023471 -UN-30SEP03

Adjusting Twine Tying Starting Point (Double Arm Twine Tying)

After having replaced or serviced the twine arm or the twine arm actuator, the twine arm starting point must be adjusted.

There must be a distance of 100 ± 5 mm (4 ± 0.2 in.) between left and right-hand panels of bale chamber and twine arms when twine arm actuator is fully extended.

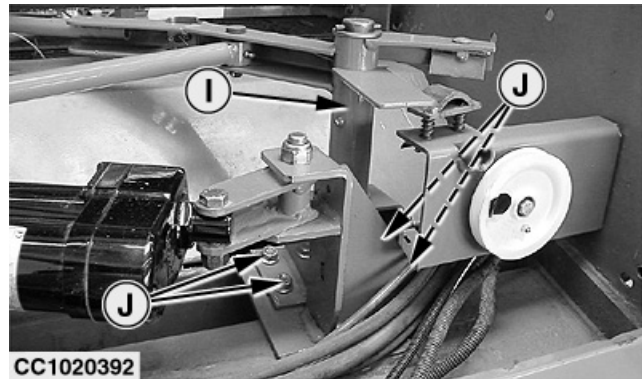
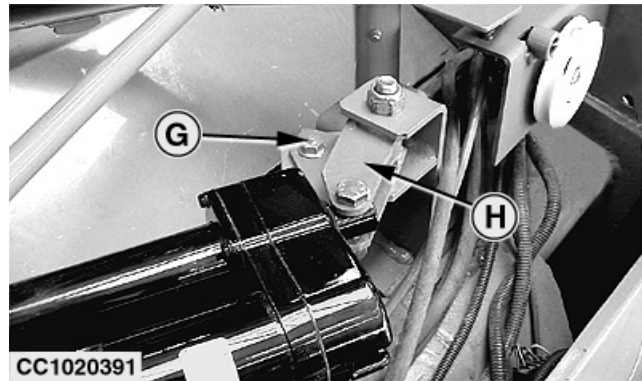
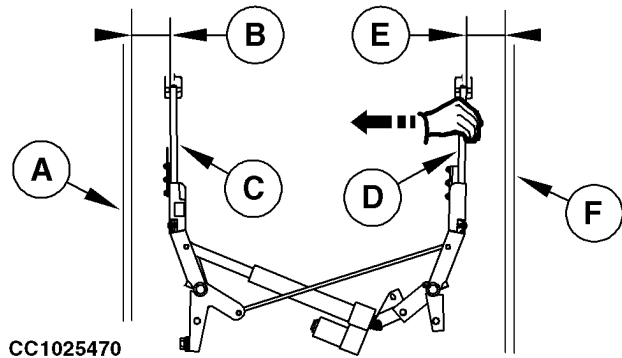
Specification

Twine Arm Travel—Distance between tip of twine arms and side panels 100 ± 5 mm (4 ± 0.2 in.)

IMPORTANT: Check or adjust distance (E), by pulling right arm inside, to eliminate backlash in the linkages.

Adjust as follows:

1. Fully extend twine arm actuator by pressing "EXTEND" key.
2. Loosen cap screw (G).
3. Move actuator support (H) in slot to obtain specified distance (B) between right-hand side panel (A) and right twine arm (C) and to obtain positive action of twine arm on twine cutter linkage.
4. Retighten cap screw (G).
5. Loosen cap screws (J).
6. Move left twine arm axle (I) to obtain specified distance (E) between left-hand side panel (F) and left twine arm (D).
7. Retighten cap screws (J).
8. Move twine arm to home position and check that twine arm has a positive action on twine cutter linkage.
9. Calibrate twine arm actuator. (See Channel 029: Calibration of Twine Actuator in BaleTrak Monitor Service section.)



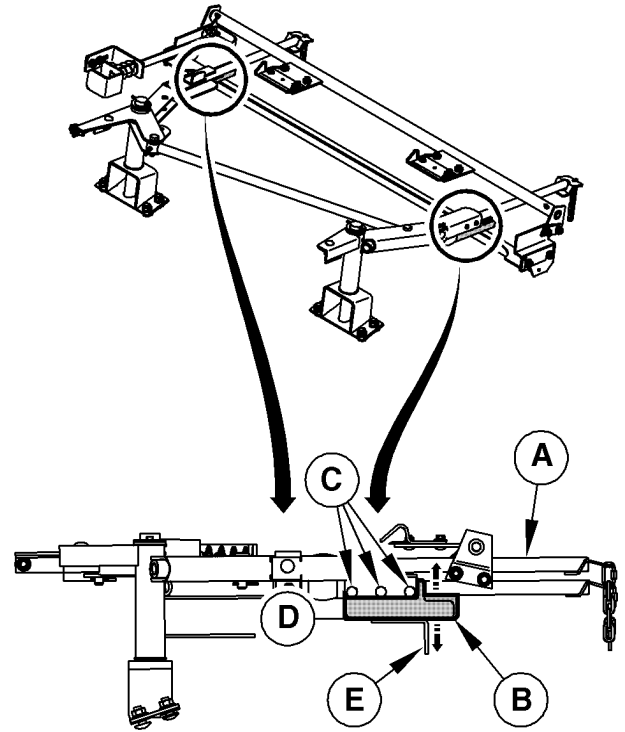
- A—Right-hand side panel
- B— 100 ± 5 mm (4 ± 0.2 in.)
- C—Right twine arm
- D—Left twine arm
- E— 100 ± 5 mm (4 ± 0.2 in.)
- F—Left-hand side panel
- G—Cap screw
- H—Actuator support
- I—Left twine arm axle
- J—Cap screws

Adjusting Flaps (Double Arm Twine Tying)

CAUTION: Keep clear of the machine while operating twine arms.

1. Extend twine arm (A) to place flap (B) in front of anvil (E).
2. Switch off monitor.
3. Loosen bolts (C).
4. Slide flap (B) until it contacts anvil (E).
5. Tighten bolts (C).
6. Repeat adjustment on the other twine arm.

A—Twine arm
 B—Flap
 C—Bolts
 D—0 mm (0 in.)
 E—Anvil



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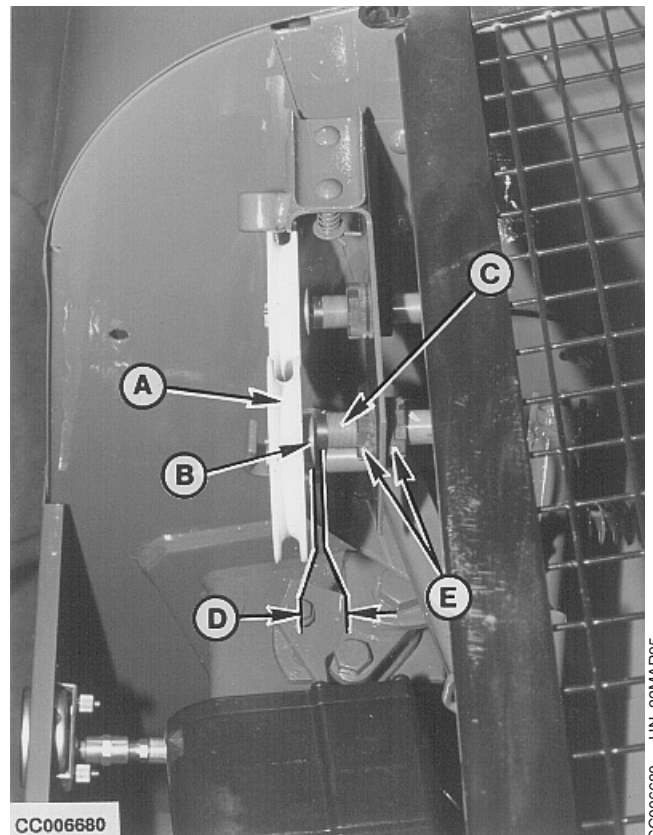
Adjusting Twine Pulley Sensors (Baler With BaleTrak Control Monitor)

Rotate pulley (A) so that the magnet (B) is just aligned with sensor (C).

Distance (D) should be 2 to 4 mm (0.08 to 0.16 in.). If not, loosen lock nuts (E), then slide sensor (C) until specified distance (D) is achieved.

Slightly tighten lock nuts (E) and rotate the pulley several times to check that there is no interference between sensor and magnet.

A—Pulleys
 B—Magnet
 C—Sensor
 D—2 to 4 mm (0.08 to 0.16 in.)
 E—Lock nuts



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OUCC006,00004BB -19-06SEP01-1/1

Adjusting Oversize/Gate Switch and Full-Size Bale Switch (Baler up to S.N. 78999)

Adjusting oversize/gate switch:

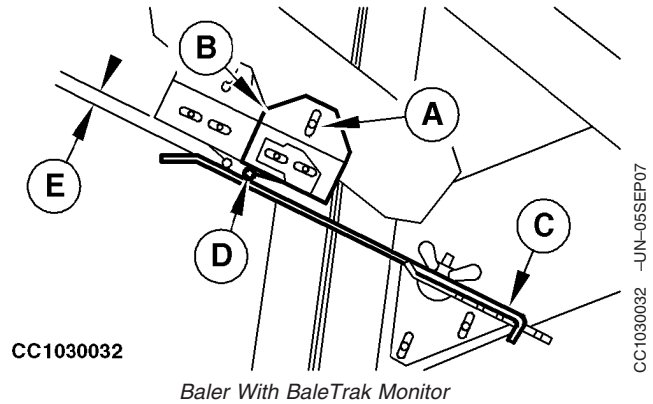
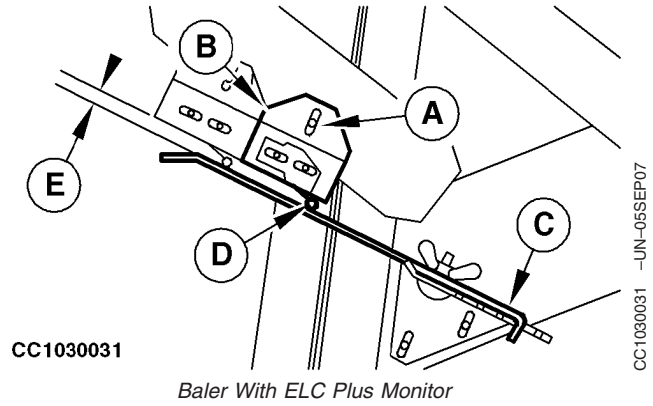
1. Close the gate.
2. Loosen screw (A).
3. Adjust switch bracket (B) so that ramp (C) contacts switch roller (D) and specified distance (E) between bottom of switch and ramp (C) is within specification:

Specification

Switch to Ramp—Distance..... 7 ± 1 mm
(0.27 ± 0.04 in.)

4. Retighten screw (A).

- A—Cap screw
- B—Switch bracket
- C—Ramp
- D—Switch roller
- E—Distance



OUCC006,0001304 -19-05SEP07-1/2

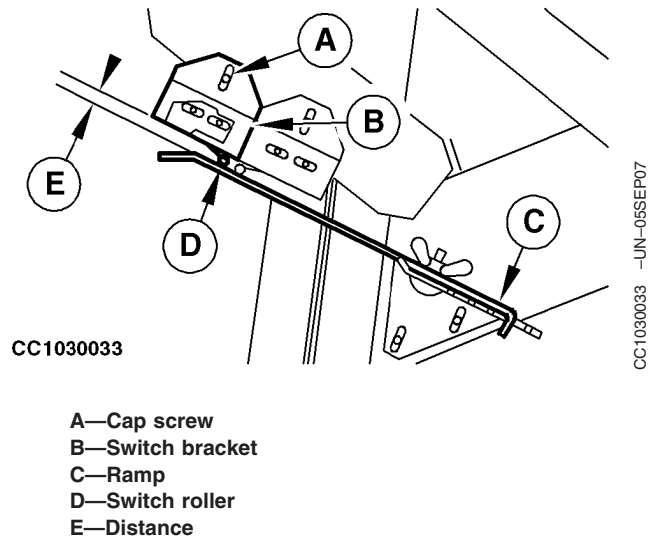
Adjusting full-size bale switch:

1. Close the gate.
2. Loosen screw (A).
3. Adjust switch bracket (B) so that ramp (C) contacts switch roller (D) and specified distance (E) between bottom of switch and ramp (C) is within specification:

Specification

Switch to Ramp—Distance..... 7 ± 1 mm
(0.27 ± 0.04 in.)

4. Retighten screw (A).

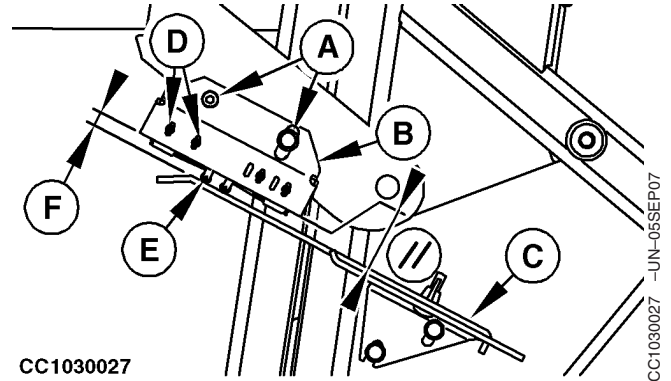


OUCC006,0001304 -19-05SEP07-2/2

Adjusting Oversize/Gate Switch and Full-Size Bale Switch (Baler from S.N. 80000)

Adjusting switch bracket and full-size bale switch:

1. Close the gate.
2. Loosen screws (A).
3. Position and maintain bracket (B) parallel to the ramp (C) as shown.
4. Retighten screws (A).
5. Loosen screws (D).
6. Adjust switch so that ramp (C) contacts switch roller (E) and specified distance (F) between bottom of switch and ramp (C) is within specification:



- A—Cap screws
- B—Switch bracket
- C—Ramp
- D—Cap screws
- E—Switch roller
- F—Distance

Specification

Switch to Ramp—Distance..... 7 ± 1 mm
 (0.27 \pm 0.04 in.)

7. Retighten screws (D).

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OUCC006.0001305 -19-05SEP07-1/2

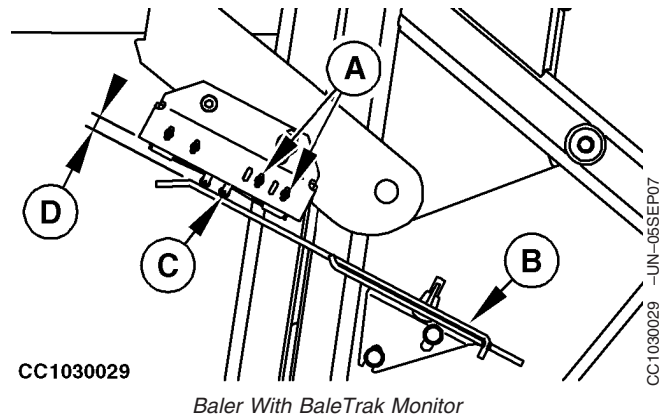
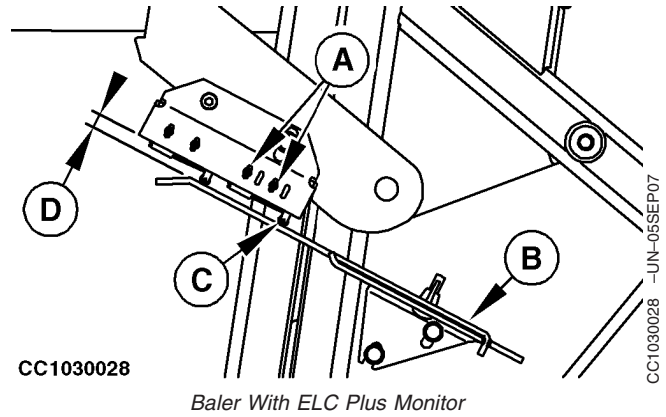
Adjusting oversize/gate switch:

1. Close the gate.
2. Loosen screws (A).
3. Adjust switch so that ramp (B) contacts switch roller (C) and specified distance (D) between bottom of switch and ramp (B) is within specification:

Specification	
Switch to Ramp—Distance.....	7 ± 1 mm (0.27 ± 0.04 in.)

4. Retighten screws (A).

- A—Cap screws
- B—Ramp
- C—Switch roller
- D—Distance



OUCC006.0001305 -19-05SEP07-2/2

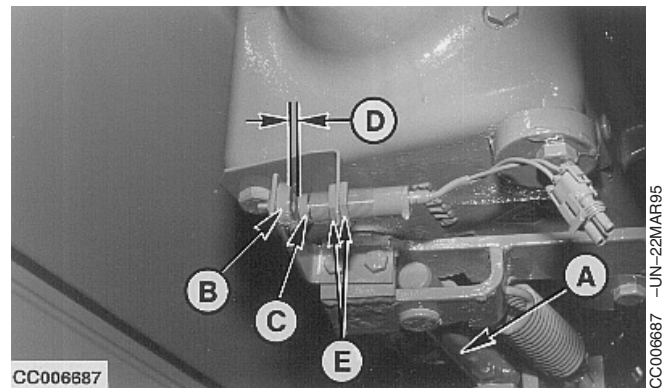
**Adjusting Rotary Feeder Reverse Sensor
(Baler with BaleTrak Plus Control Only)**

Check that rotary feeder is not in reverse operating mode. See "Unplugging Baler with Rotary Feeder" in "Operating the Baler - General purposes" section.

With hydraulic cylinder (A) fully retracted, check that magnet (B) is aligned with sensor (C).

Distance (D) should be 10 ± 1 mm (0.4 ± 0.04 in.). If not, loosen lock nuts (E), then slide sensor (C) until specified distance (D) is achieved.

Slightly tighten lock nuts (E).



- A—Hydraulic cylinder
- B—Magnet
- C—Sensor
- D— 10 ± 1 mm (0.4 ± 0.04 in.)
- E—Lock nuts

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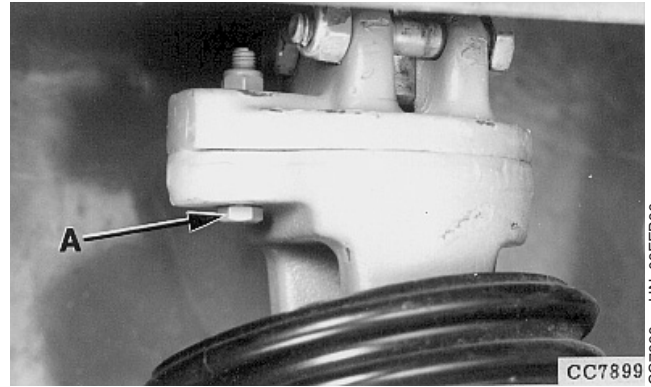
Replacing Powerline Shear Bolt (If Equipped)

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

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

Reinstall powerline shield on baler tongue.

A—Cap screw



CC7899 -UN-09FEB96

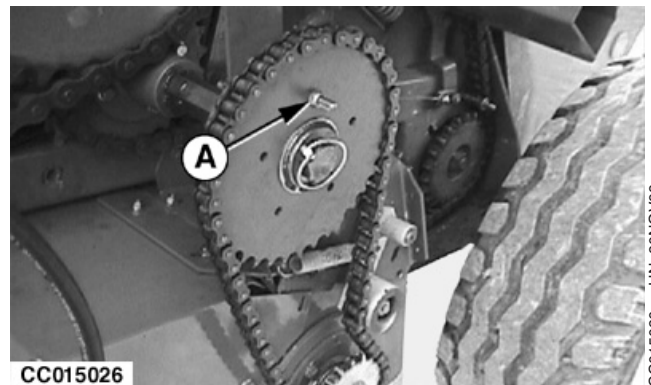
OUCC006,00004AB -19-06SEP01-1/1

Replacing Pickup Drive Shear Bolt (Baler with Rotary Feeder Mounted Below Feeding Channel or Double Rotary Feeder)

Line up hub and sprocket holes, then install a 10 x 35 mm grade 8.8 cap screw (A) and lock nut.

Reinstall all shields previously removed.

A—Cap screw



CC015026 -UN-30NOV98

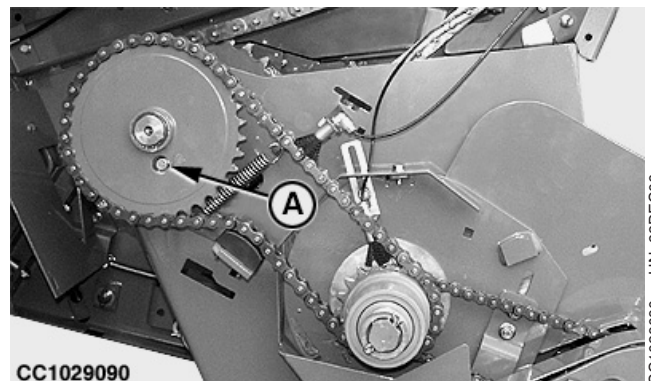
OUCC006,000123B -19-02FEB07-1/1

Replacing Rotary Feeder Pickup Drive Shear Bolt

Line up holes in shear bolt hub and install a 8 x 35 mm grade 10.9 cap screw (A) and lock nut.

Reinstall all shields previously removed.

A—Cap screw



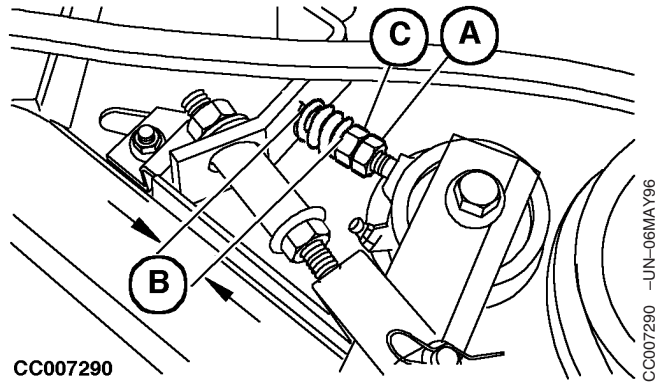
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OUCC006,000123C -19-04DEC06-1/1

Adjusting Net Feed Roll Pressure (Baler with Standard Net Tying Device)

IMPORTANT: Adjustment must be done without belt. See "Removing and Installing Net Feed Roll Drive Belt" in this section.

1. Open side doors.
2. Extend the cylinder to middle position.
3. Loosen lock nut (A) and adjust the spring length until specified dimension (B) is obtained by loosening or tightening spring adjusting nut (C).



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

Specification

Pressure Spring Length—
 Distance..... 20 mm (0.78 in.)

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

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

4. Repeat step 3, on the other side.
5. Remove any foreign material or net from between the feed rolls.

OUCC006,0000BC0 -19-12JAN07-1/1

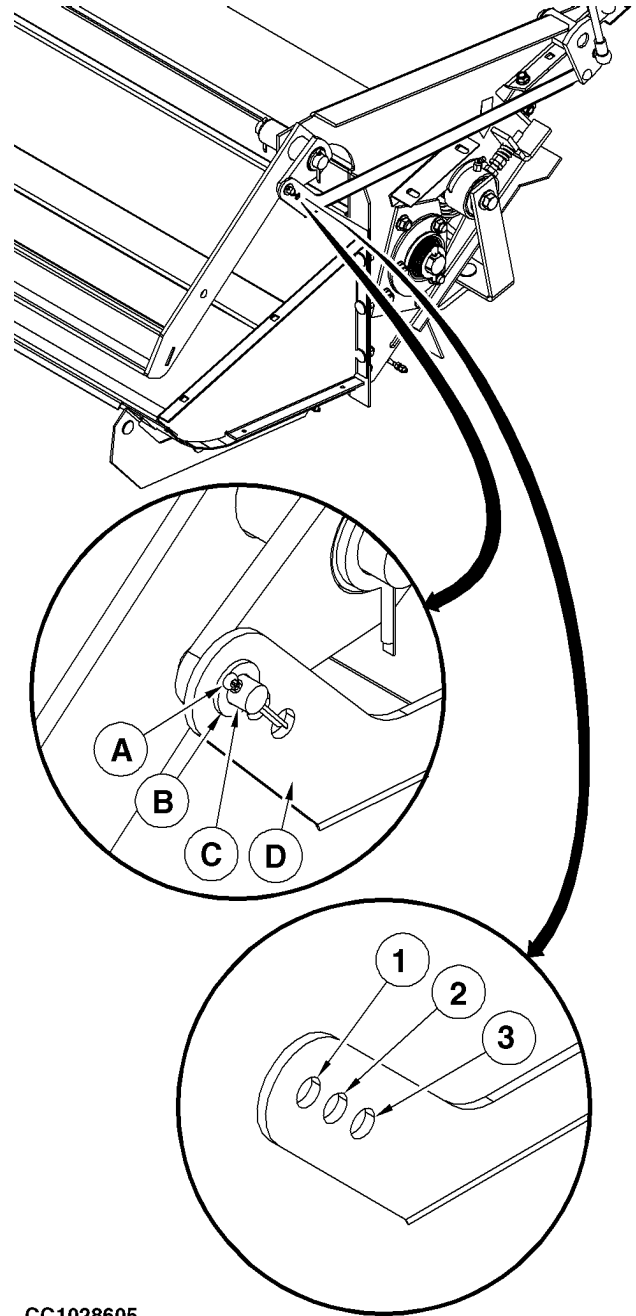
Adjusting Net Tying Strength (Baler with Standard Net Tying Device)

1. Open upper cover.
2. Remove cotter pin (A) and washer (B).

NOTE: The link (D) is factory set in position (1).

3. Position pin (C) in one of the three positions (1, 2 or 3) according to the desired net tying strength.
4. Install washer (B) and cotter pin (A).
5. Repeat procedure on opposite side.

- A—Cotter pin
- B—Washer
- C—Fastener pin
- D—Link
- 1—Standard strength position
- 2—Medium strength position
- 3—High strength position



CC1028605

CC1028605 -UN-25SEP06

OUC006.00011E8 -19-02FEB07-1/1

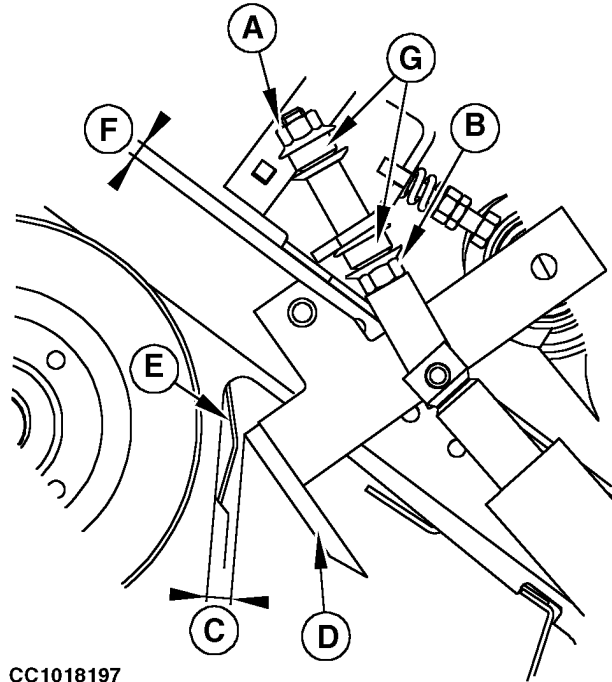
Adjusting Net Knife Arm Stop (Baler with Standard Net Tying Device)

Remove the net feed roll drive belt. See "Removing and Installing Net Feed Roll Drive Belt" in this section.

Adjust upper knife position:

1. Extend actuator.
2. Loosen stop nut (A).
3. Adjust stop nut (B) to obtain a distance (C) between 2—15 mm (0.08—0.6 in.).
4. Check for no interference between knife (D) and roll shield (E). If there is interference, adjust the shield and restart with step 3.
5. Check that distance (F) is above 1 mm (0.04 in.). If necessary readjust stop nut (B).
6. Tighten stop nut (A).

NOTE: For baler with the rubber shock absorbers (G), tighten the stop nut (A) manually, then tighten additional 1.5 turns with a wrench. The rubber shock absorbers should not be pressed too much.



- CC1018197
- A—Stop nut
 - B—Stop nut
 - C—2 to 15 mm (0.08 to 0.6 in.)
 - D—Knife
 - E—Roll shield
 - F—1 mm (0.04 in.)
 - G—Rubber shock absorbers

CC1018197 -JUN-30MAY01

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OUCC006,0000BC1 -19-12JAN07-1/2

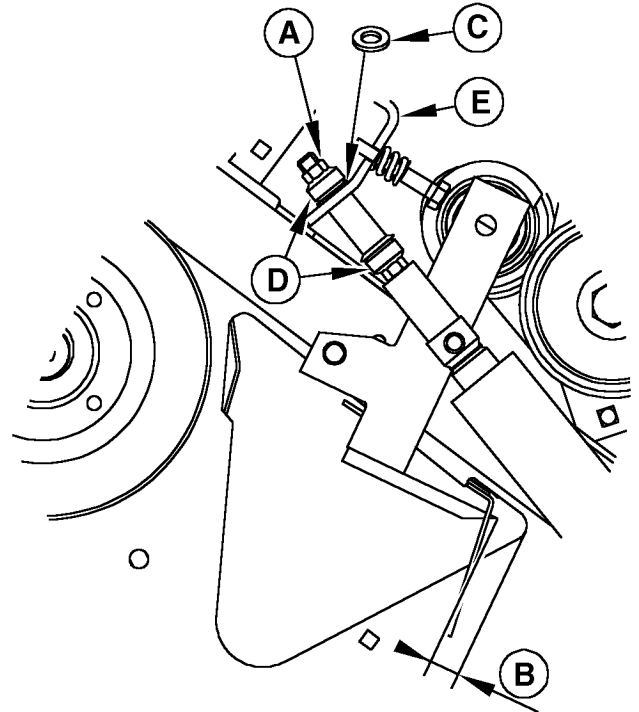
Adjust lower knife position:

1. Retract actuator.
2. Check that distance (B) between edge of the knife and side sheet is 1—5 mm (0.04—0.2 in.). If necessary, adjust stop nut (A) and add or remove shim (C) between conic washer and bracket (E).
3. Tighten stop nut (A).

NOTE: For baler with the rubber shock absorbers (D), tighten the stop nut (A) manually, then tighten additional 1.5 turns with a wrench. The rubber shock absorbers should not be pressed too much.

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

- A—Stop nut
- B—Distance
- C—Shim
- D—Rubber shock absorber
- E—Bracket



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OUC006,0000BC1 -19-12JAN07-2/2

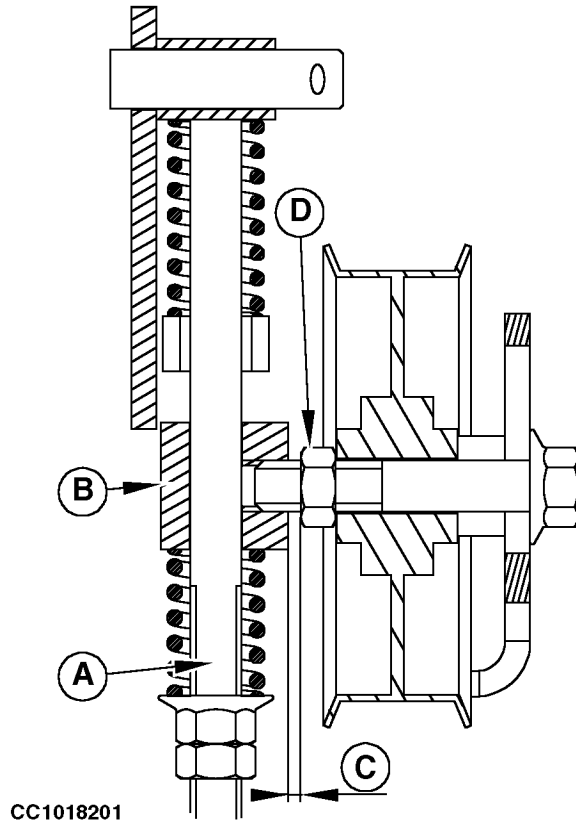
Adjusting Net Feed Roll Drive Belt Tension (Baler with Standard Net Tying Device)

1. Check that the tie bar (A) slides freely inside the guide (B).
2. Make sure to leave a gap (C) of 1 to 2 mm (0.04 to 0.08 in.) between guide (B) and nut (D).

IMPORTANT: Check that net knife arm stop adjustment is correct prior to adjusting the net feed roll drive belt tension. See "Adjusting Net Knife Arm Stop" in this section.

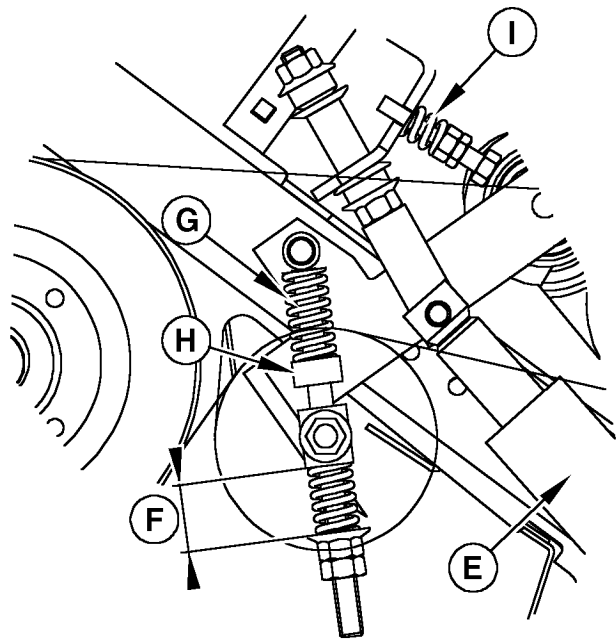
3. Fully extend the actuator (E).
4. Adjust the spring length (F) to 34,5 mm (1.36 in.) for a new belt, or 35 mm (1.38 in.) for a used one.
5. Check that the upper spring (G) is not prestressed. If necessary, take out the spacer (H).
6. Retract/extend the actuator and readjust spring length (F) if necessary.
7. Run belt drive for 15 sec. at full rpm, activate actuator several times. Readjust the belt tension.
8. Extend actuator and check that there is no gap between the two rolls. If necessary, adjust the spring (I) of net feed roll pressure (see "Adjusting Net Feed Roll Pressure" in this section.)

- A—Tie bar
- B—Guide
- C—Gap
- D—Nut
- E—Actuator
- F—Length
- G—Upper spring
- H—Spacer
- I—Spring



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CC1020399

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Checking Net Feed Roll Brake (Baler with Standard Net Tying Device)

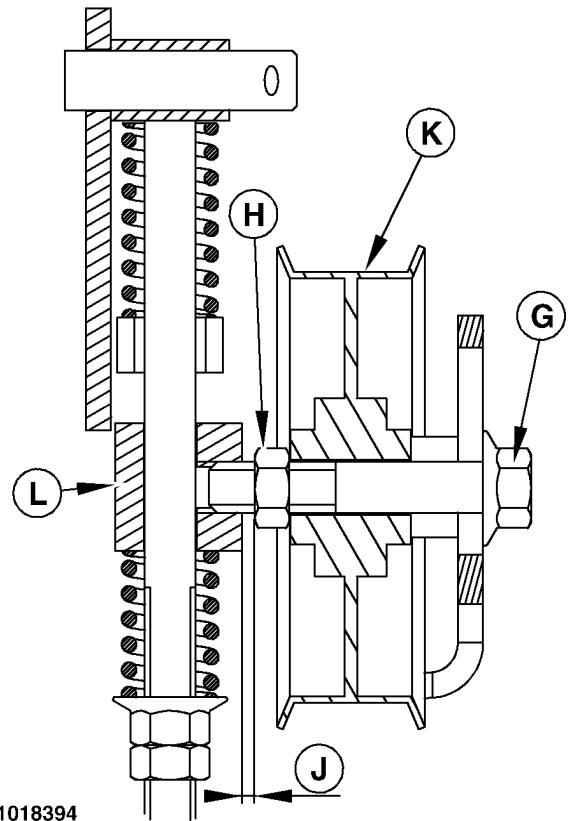
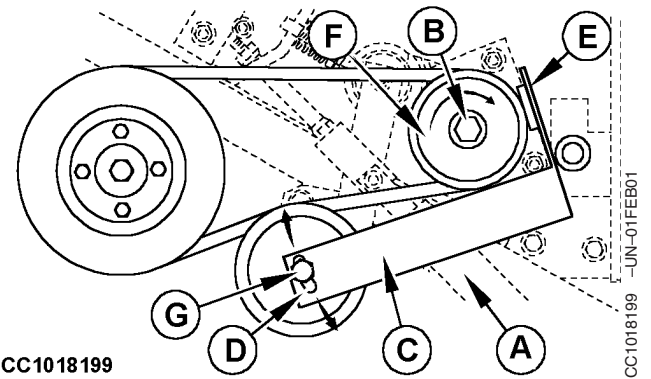
IMPORTANT: Check that net knife arm stop and net feed roll drive belt adjustments are correct prior to checking the net feed roll brake. See "Adjusting Net Knife Arm Stop" and "Adjusting Net Feed Roll Drive Belt Tension" in this section.

1. Retract actuator (A).
2. Check that the torque required to turn net feed roll (B) is between 40 and 50 N•m (30 and 37 lb-ft).

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

3. If necessary, adjust as follows:
 - a. Extend the actuator to middle position.
 - b. Block the screw (G) and loosen nut (H) to maintain the distance (J) between pulley (K) and tension system (L) and adjust screw position in the slot (D).
 - c. Tighten nut (H).

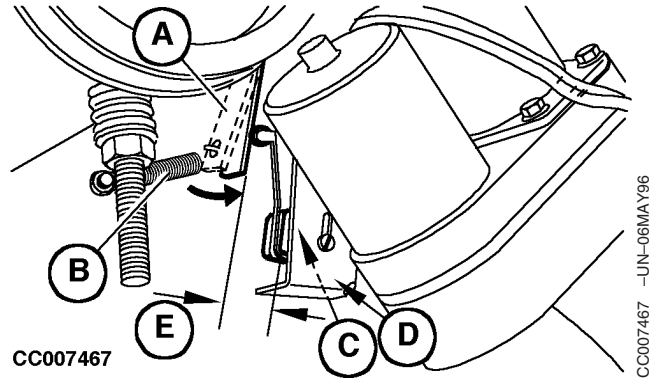
- A—Actuator
- B—Net feed roll
- C—Arm
- D—Slot
- E—Rubber stop
- F—Pulley
- G—Screw
- H—Nut
- J— 1.5 ± 0.5 mm (0.06 ± 0.02 in.)
- K—Pulley
- L—Tension system



OUC006,0000BC3 -19-31OCT06-1/1

Adjusting Net Cut Switch (Baler with Standard Net Tying Device)

1. Open right-hand door.
2. Check if plate (A) is moving freely. Check tension of spring (B).
3. Fully push on plate (A) in the direction indicated by the arrow, then adjust switch (C) and/or switch support (D) so that specified distance (E) between bottom of switch and plate (A) is achieved.

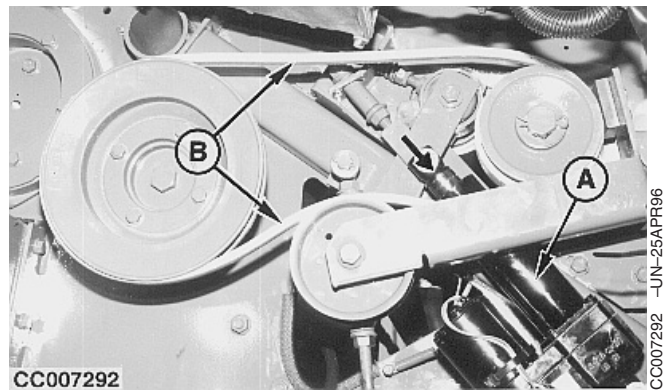


- A—Plate
- B—Spring
- C—Switch
- D—Switch support
- E— 7 ± 1 mm (0.27 ± 0.04 in.)

OUCC006,00011F2 -19-31OCT06-1/1

Removing and Installing Net Feed Roll Drive Belt (Baler with Standard Net Tying Device)

1. Open right-hand door.
2. Retract net actuator (A) to release belt tension.
3. Remove belt (B) from sheaves.
4. Install a new belt as shown.
5. Adjust belt tension. See "Adjusting Net Feed Roll Drive Belt Tension" in this section.



- A—Actuator
- B—Belt

OUCC006,0000BBF -19-31OCT06-1/1

Removing and Installing Net Knife (Baler with Standard Net Tying Device)

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

1. Note position of knife cutting edge for reinstallation.
2. Slowly extend actuator (A) so that knife bolts (B) are fully accessible from the side opening (C), then **disconnect actuator plug (D)**.
3. Remove bolts (B) on each side of knife (E), then remove knife (E) from bracket (F).
4. Install knife (E) on bracket (F) in the same position as before removal, i.e. with beveled surface down and knife under the bracket (F).

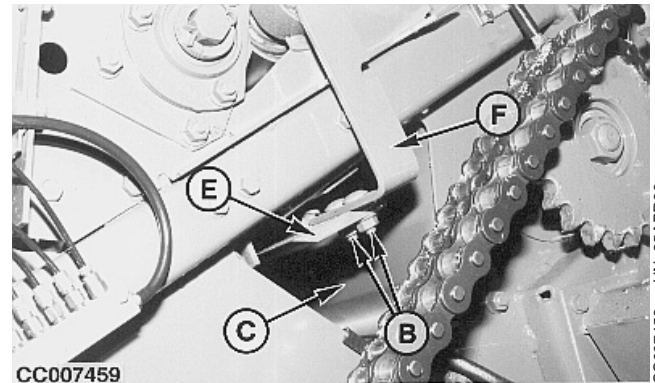
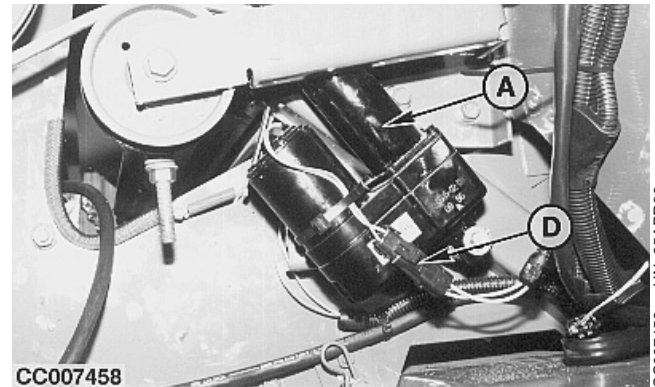
IMPORTANT: Round heads of bolts must be up. This will prevent the hardware from tearing the net tying material.

5. Secure knife (E) by means of bolts (B).
6. Tighten the knife fitting bolts to specified torque:

Specification	
Knife Fitting Bolts—Torque	55 N•m (40 lb-ft)

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

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



TS268 -UN-23AUG88

CC007458 -UN-25APR96

CC007459 -UN-25APR96

Removing Net Wrapped Around Feed Rolls (Baler with Standard Net Tying Device)

IMPORTANT: Do not cut net material from rubber roll. Any knife cuts in the rubber roll covering may result in more frequent wrapping around the rolls and may require roll replacement.

If net wraps around the rubber roll:

1. Disengage PTO. Shut off tractor engine.
2. Extend actuator to just release the feed roll brake.
3. Open the net box.
4. Cut the net material between the net roll and the spiral idler roll.
5. Pull the surface wrap, rotating the rubber feed roll in reverse.
6. 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.
7. Apply talcum powder to rubber feed roll.



OUCC006,000123F -19-04DEC06-1/1

Net Tying Device Adjustment List (Baler with CoverEdge Net Tying Device)

The following adjustments should be carried out when net cut or net tying problems occur during field operation.

The following list includes different tests and adjustments to carry out in this order:

1. Checking galvanized roll flatness.
2. Adjusting counter-knife position.

3. Adjusting press roll and plastic rollers.
4. Adjusting net actuator position.
5. Adjusting rubber roll brake.
6. Adjusting net cut sensor.
7. Adjusting net tying drive belt tension.

NOTE: When all test results are OK, the net tying device is then optimized for good field operation.

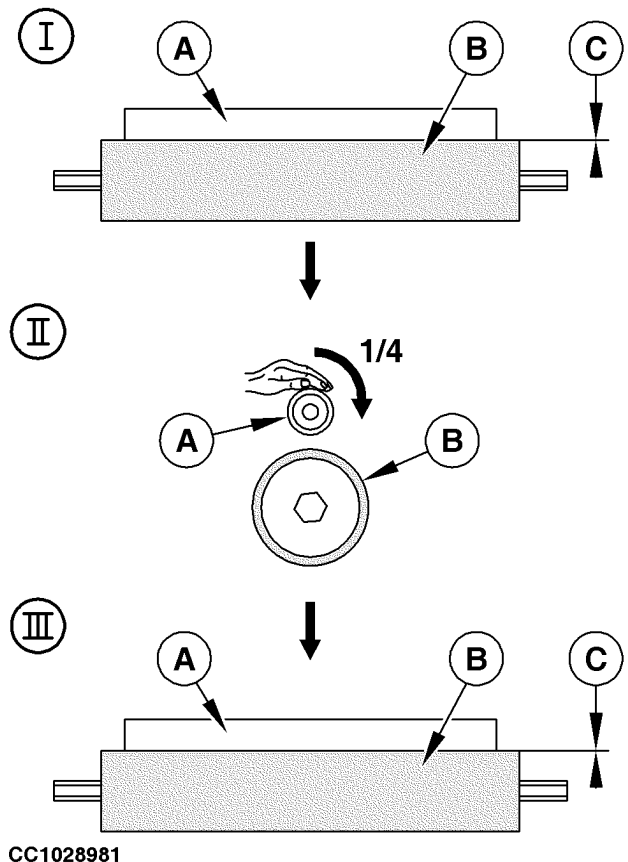
OUCC006.00011F5 -19-10JAN07-1/1

Checking Galvanized Roll Flatness (Baler with CoverEdge Net Tying Device)

1. Remove net roll.
2. Slightly close net tying cover to allow galvanized roll (A) to contact rubber roll (B).
3. Check contact (C) between galvanized roll (A) and rubber roll (B).
4. Open net tying cover.
5. Turn galvanized roll (A) a quarter turn by hand.
6. Slightly close net tying cover to allow galvanized roll (A) to contact rubber roll (B) and check contact (C) again.

If test is not OK, see your John Deere dealer.

A—Galvanized roll
B—Rubber roll
C—0 mm (0 in.)



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OUCC006.0001229 -19-02FEB07-1/1

Adjusting Counter-Knife Position (Baler with CoverEdge Net Tying Device)

IMPORTANT: A bad adjustment may result in net cut problems.

1. Retract net actuator.
2. Check contact (C) between counter-knife (B) and knife (D):
 - If OK, go to step 3.
 - If not OK, continue.
 - a. Loosen nut (F) on both sides, to move rubber pad (E) forward.
 - b. Slightly tighten nut (F) to maintain rubber pad (E) in forward position.
 - c. Extend and retract net actuator and check contact (C) between knife (D) and counter-knife (B).
 - If OK, go to step 3.
 - If not OK, continue.
 - a. Loosen nut (A) on both sides.
 - b. Position counter-knife (B) in contact with knife (D), as shown.

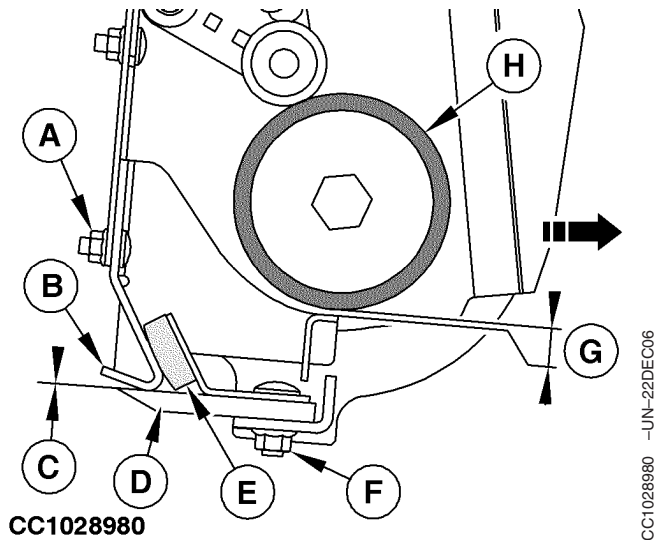
If needed, adjust net actuator position. See "Adjusting Net Actuator Position" in this section and repeat procedure.
 - c. Tighten nut (A) on both sides.
 - d. Extend and retract net actuator and check contact (C) between knife (D) and counter-knife (B).

3. Check that gap (G) is within specification:

Specification

Rubber Roll to Scraper—Gap 3 ± 1 mm
 (0.12 ± 0.04 in.)

If needed, adjust gap (G) by modifying counter-knife (B) position. Go to step 2.



- A—Nut
- B—Counter-knife
- C—0 mm (0 in.)
- D—Knife
- E—Rubber pad
- F—Nut
- G—Gap
- H—Rubber roll

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4. Check that rubber pad (E) is against counter-knife (B):

If needed, adjust rubber pad (E) as follow:

- a. Retract net actuator.
- b. Loosen nut (F).
- c. Position rubber pad (E) in contact with counter-knife (B).
- d. Tighten nut (F).

IMPORTANT: After adjusting counter-knife position, always adjust rubber roll brake. See "Adjusting Rubber Roll Brake" in this section.

OUC006,0001223 -19-01FEB07-2/2

Adjusting Plastic Rollers (Baler with CoverEdge Net Tying Device)

1. Position net roll (A) under plastic roller brackets (B), as shown. See "Loading Net Roll" in "Preparing the Baler" section.
2. Check that gap (D) between net roll (A) and plastic rollers (C) is within specification:

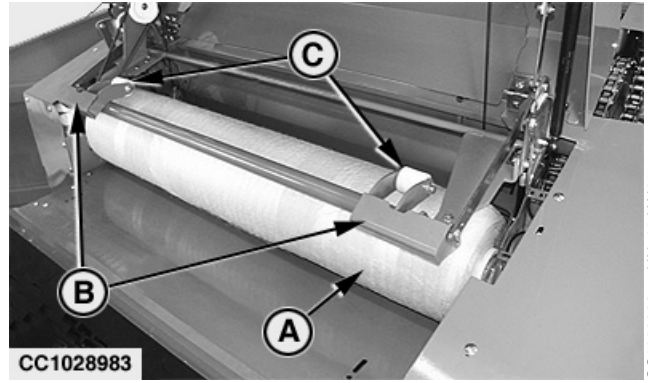
Specification

Net Roll to Plastic Rollers—Gap..... 4 ± 2 mm
(0.16 ± 0.08 in.)

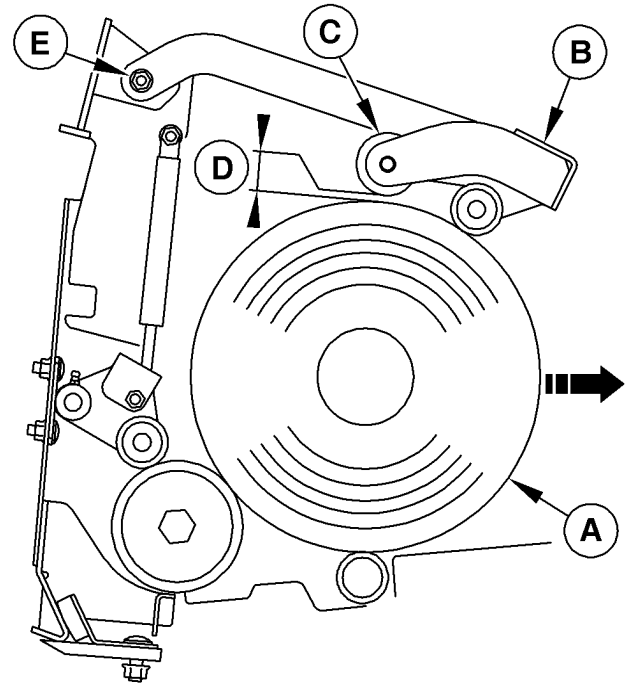
If necessary adjust gap (D) as follow:

- a. Loosen nut (E) on both sides.
- b. Adjust plastic roller bracket (B) to obtain gap (D).
- c. Tighten nut (E) on both sides.

- A—Net roll
- B—Plastic rollers bracket
- C—Plastic roller
- D—Gap
- E—Nut



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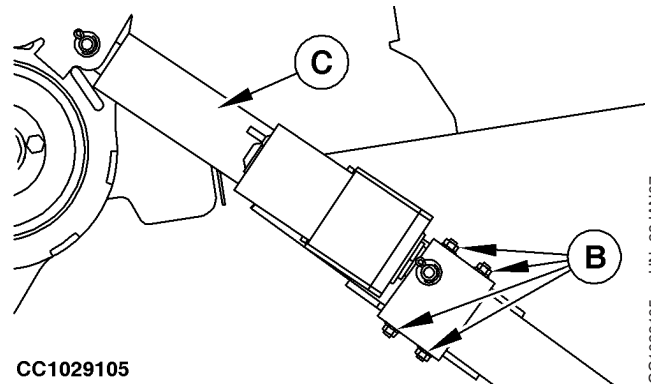
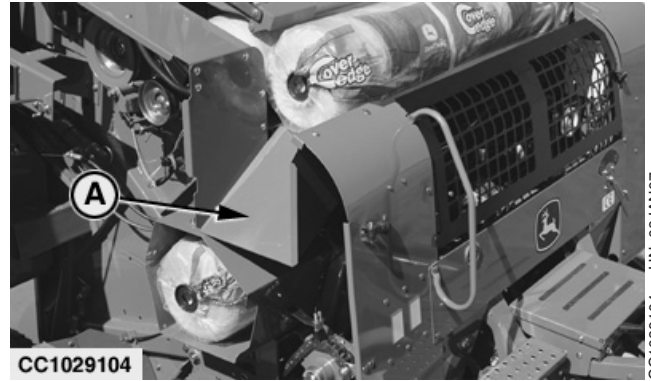
OUC006,0001231 -19-31JAN07-1/1

Adjusting Net Actuator Position (Baler with CoverEdge Net Tying Device)

IMPORTANT: Before adjusting net actuator position, be sure that counter-knife position is correctly adjusted. See "Adjusting Counter-Knife Position" in this section.

1. Remove spout (A).
2. Slightly extend net actuator (C).
3. Remove fixing screws (B).
4. Fully retract net actuator (C).

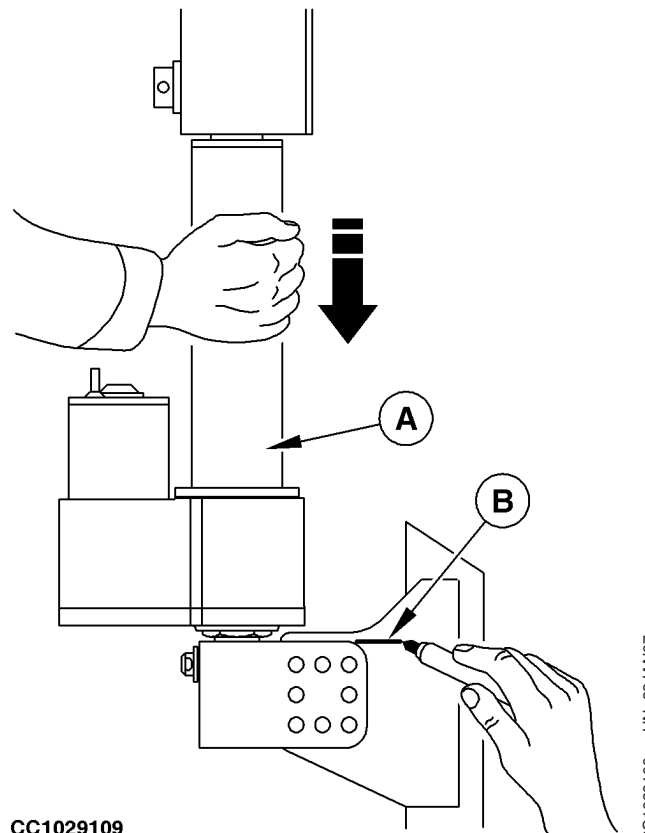
A—Spout
B—Fixing screws
C—Net actuator



OUCC006.0001250 -19-02FEB07-1/4

5. Manually pull net actuator (A) forward to position knife in contact with counter-knife.
6. Make a mark (B) as shown.

A—Net actuator
B—Mark

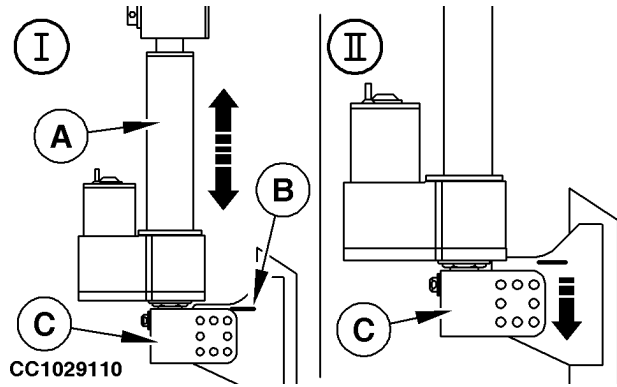


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OUCC006.0001250 -19-02FEB07-2/4

7. Slightly extend net actuator (A).
8. Align actuator bracket (C) with mark (B) as shown in step (I).
9. Slide actuator bracket (C) forward, so that two holes are aligned as close as possible to the mark (B). See step (II).

A—Net actuator
 B—Mark
 C—Actuator bracket

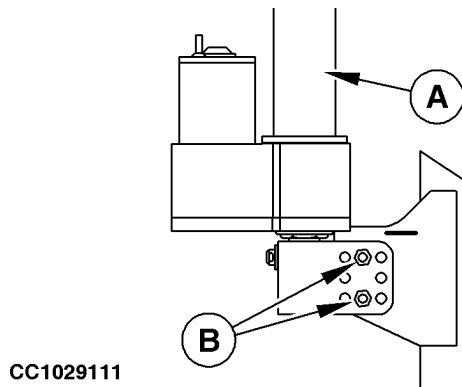


OUCC006,0001250 -19-02FEB07-3/4

10. Reinstall and tighten fixing screws (B).
11. Fully retract net actuator (A).
12. Reinstall spout.

IMPORTANT: After adjusting net actuator position, always adjust belt tension. See "Adjusting Net Tying Drive Belt Tension" in this section.

A—Net actuator
 B—Fixing screws



OUCC006,0001250 -19-02FEB07-4/4

Adjusting Rubber Roll Brake (Baler with CoverEdge Net Tying Device)

IMPORTANT: Before adjusting rubber roll brake, be sure that:

- Counter-knife position is correctly adjusted. See "Adjusting Counter-Knife Position" in this section.
- Net actuator position is correctly adjusted. See "Adjusting Net Actuator Position" in this section.

1. Check brake pad (B) adjustment as follow:

- Fully retract net actuator (A).

NOTE: Rubber roll brake pad (B) is engaged when net actuator (A) is fully retracted.

- Place suitable tool on rubber roll hexagonal shaft (D).
- Check that resisting torque to turn shaft (D) clockwise is within specification:

Specification

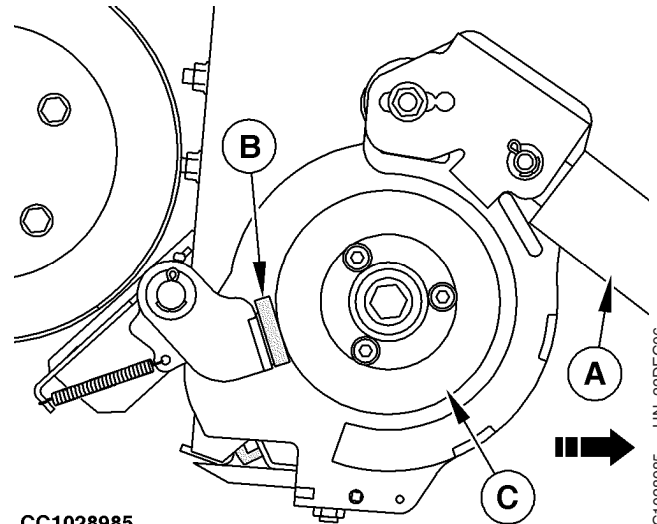
Sheave—Torque Turn $70 \pm 10 \text{ N}\cdot\text{m}$
 $51 \pm 7 \text{ lb}\cdot\text{ft}$

2. Adjust brake pad (B) as follow:

- Extend actuator (A) to middle position.
- Loosen nuts (E).
- Transfer one or two shims (F) from position (G) to position (H).

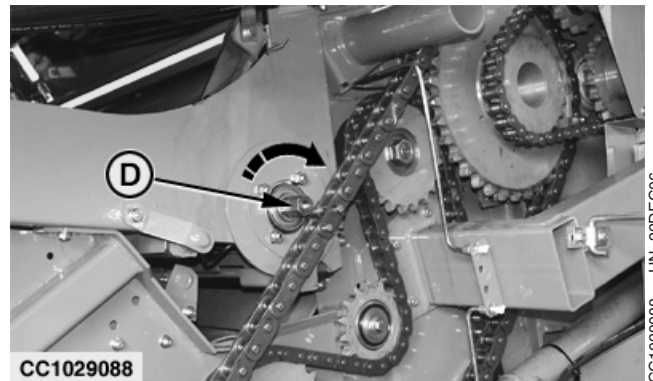
NOTE: Factory setting for rubber roll brake, is two shims (F) in position (H).

- Tighten nuts (E) and check torque again. Go to step 1.



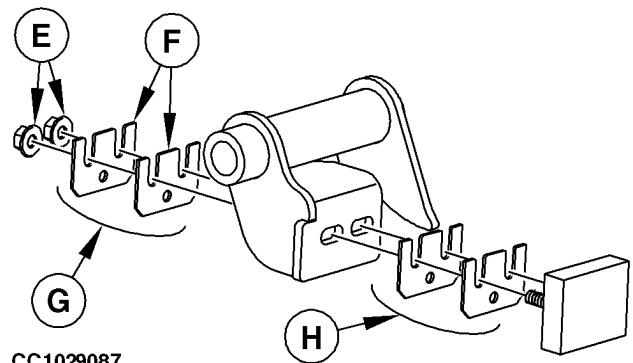
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- A—Net actuator
- B—Brake pad
- C—Rubber roll drive sheave
- D—Rubber roll hex. shaft
- E—Nuts
- F—Shims
- G—Storage position
- H—Adjustment position

If necessary, replace brake pad (B) and repeat procedure.

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Adjusting Net Cut Sensor (Baler with CoverEdge™ Net Tying Device)

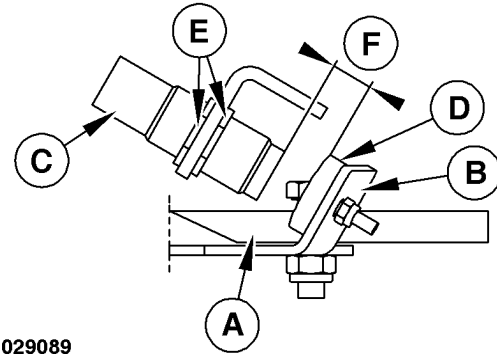
To adjust net cut sensor (C), proceed as follows:

1. Align net knife (A) and magnet support (B).
2. Check that distance (F) between sensor (C) and magnet (D) is within specification:

Specification	
Net Cut Sensor to Magnet—	
Distance.....	12 mm (0.5 in.)

If necessary adjust sensor (C) as follows:

- a. Loosen nuts (E) and slide sensor (C) until distance (F) is obtained.
- b. Tighten nuts (E).
- c. With BaleTrak™ monitor, check sensor detection. See "Channel 012: Test of Net Cut Sensor" in "BaleTrak Monitor Service" section.



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- A—Knife
- B—Magnet support
- C—Sensor
- D—Magnet
- E—Nuts
- F—Distance

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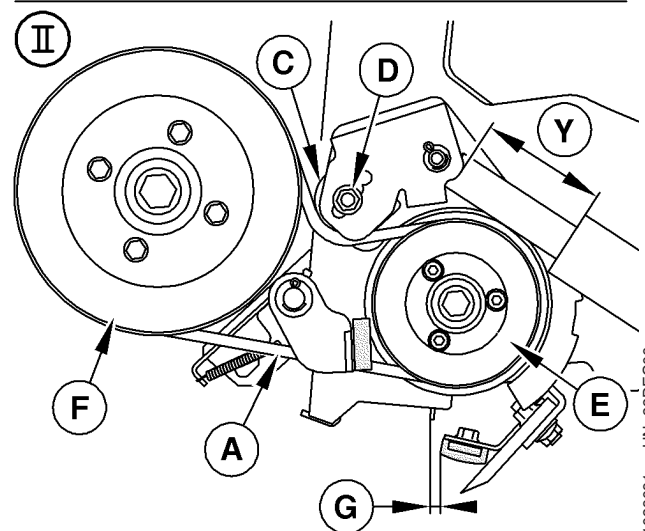
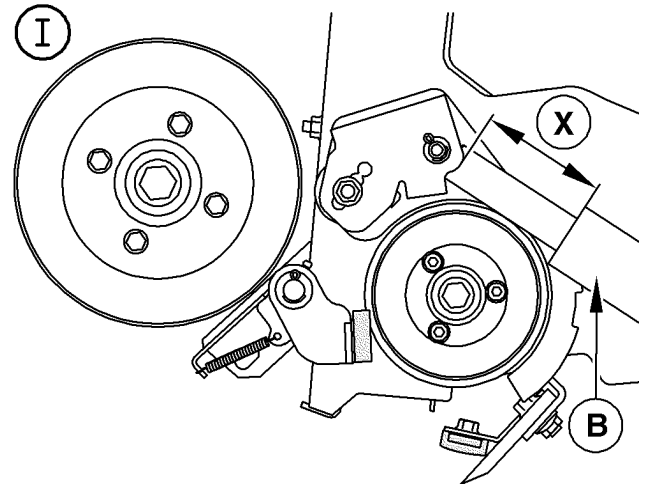
CoverEdge is a trademark of Deere & Company
BaleTrak is a trademark of Deere & Company

OUCC006,00012F8 -19-26SEP07-1/1

Adjusting Net Tying Drive Belt Tension (Baler with CoverEdge Net Tying Device)

IMPORTANT: Before adjusting drive belt tension, be sure that net actuator position is correctly adjusted. See "Adjusting Net Actuator Position" in this section.

1. Check net actuator (B) stroke:
 - a. Remove belt (A). See "Removing and Installing Rubber Roll Drive Belt" in this section.
 - b. Fully extend net actuator (B) using monitor.
 - c. Measure and record distance (X).
 - d. Retract net actuator (B) and reinstall belt (A).
 - e. Fully extend net actuator (B).
 - f. Measure and record distance (Y).
 - g. Calculate $(X) - (Y)$.
 - $(X) - (Y) > 2 \text{ mm (0.08 in.)}$, go to step 3.
 - $(X) - (Y) \leq 2 \text{ mm (0.08 in.)}$, continue.
2. Adjust roller (C):
 - a. Retract net actuator (B).
 - b. Remove fixing screw (D).
 - c. Move roller (C) toward left.
 - d. Reinstall and tighten fixing screw (D).
 - e. Fully extend net actuator (B).
 - f. Check net actuator stroke again; go to step 1.
3. Check net actuator (B) position:
 - a. Check that there is no contact between roller (C) and main drive sheave (F).
 - b. Check that there is no contact between net actuator (B) and rubber roll drive sheave (E).



CC1029091

- A—Belt
- B—Net actuator
- C—Roller
- D—Fixing screw
- E—Rubber roll drive sheave
- F—Main drive sheave
- G—Gap
- X—Distance
- Y—Distance

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4. Check that gap (G) is within specification:

	Specification
Rubber Pad to Counter-Knife—	
Gap	1 mm minimum (0.04 in. minimum)

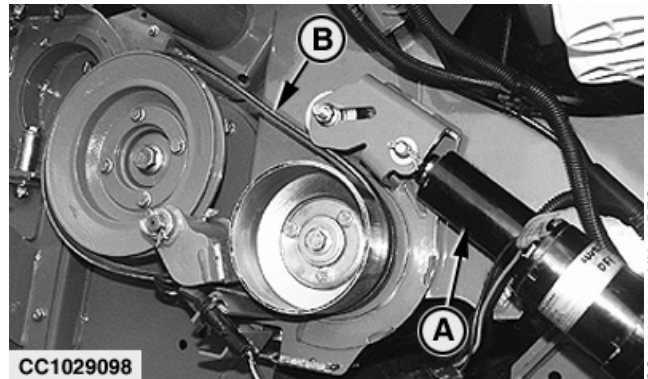
If necessary, adjust roller (C) as follow:

- a. Retract net actuator (B).
- b. Remove fixing screw (D).
- c. Move roller (C) toward right.
- d. Reinstall and tighten fixing screw (D).
- e. Fully extend net actuator (B).
- f. Check net actuator stroke again, go to step 1.

OUCC006,0001234 -19-31JAN07-2/2

**Removing and Installing Net Tying Drive Belt
(Baler with CoverEdge Net Tying Device)**

1. Open right-hand side door.
2. Retract net actuator (A) to release belt tension.
3. Remove belt (B) from sheaves.
4. Install a new belt as shown.
5. Adjust belt tension. See "Adjusting Net Tying Drive Belt Tension" in this section.



A—Net actuator
B—Belt

OUCC006,0001240 -19-12JAN07-1/1

Removing and Installing Net Knife (Baler with CoverEdge Net Tying Device)



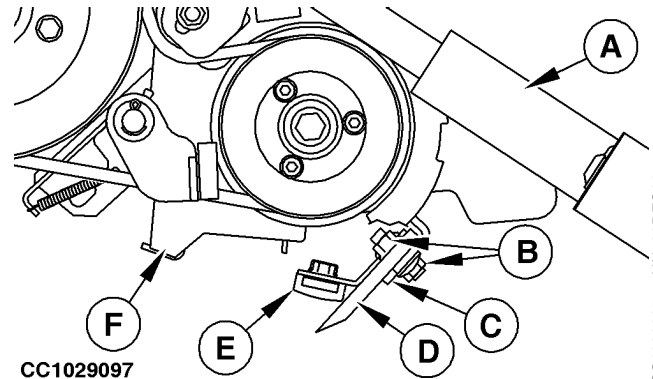
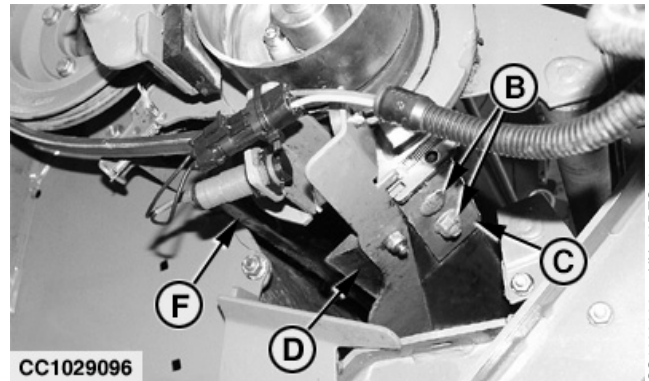
CAUTION: Prevent personal injury by wearing gloves to handle net knife.

1. Note position of knife (D) cutting edge and fixing screws (B) for reinstallation.
2. Extend net actuator (A) so that fixing screws (B) are fully accessible, then disconnect actuator plug.
3. Remove fixing screws (B) on each side of knife (D).
4. Remove knife (D) and rubber pad (E) from bracket (C).
5. Install knife (D) and rubber pad (E) on bracket (C), in the same position as before removal.

IMPORTANT: Take care that knife (D) and rubber pad (E) are correctly centered in relation to counter-knife (F).

6. Tighten fixing screws (B) on both sides.
7. Reconnect actuator plug and retract actuator (A).
8. Adjust rubber pad (E). See "Adjusting Counter-Knife Position" in this section.

A—Net actuator
 B—Fixing screws
 C—Bracket
 D—Knife
 E—Rubber pad
 F—Counter-knife



Removing Net Wrapped Around Feed Rolls (Baler with CoverEdge Net Tying Device)



CAUTION: Avoid injury from entanglement in moving rolls. Disengage PTO and shut off tractor before servicing.

If net wraps around feed rolls:

1. Extend net actuator to just release the rubber roll brake.
2. Shut off tractor engine.
3. Open the net tying cover and place security device in lock position.
4. Gather the free end of the net.
5. Cut the net material.

IMPORTANT: Do not cut net material from rubber roll. Any knife cuts in the rubber roll covering may result in more frequent wrapping around the rolls and may require roll replacement.

6. Pull the surface wrap, rotating the feed rolls in reverse.
7. Wipe off feed rolls and check for any sticky material. If necessary, rubber roll may be washed with soap and water.

IMPORTANT: Never use solvents to clean rubber roll and never apply talcum to rubber roll.



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CC1029103 -UN-22DEC06

Sharpening Net Knife

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

1. Remove any residue from beveled edge.
2. Clamp knife to a bench or table.
3. Draw-file the beveled edge maintaining a 25° angle.
4. Keep the sharpened edge straight, within 1 mm (0.04 in.).



OUCC006,0000BBE -19-17AUG04-1/1

BaleTrak Monitor Service

Diagnostic Trouble Code List

The diagnostic trouble codes are given in the following table:

Battery			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E001	Voltage drop while actuator is on	Check wires and connectors. Check battery. Check alternator. See "Channel 019" in this section.	Press "Minus" key when actuator is off
E002	Battery voltage below 11.2 V	Check wires and connectors. Check battery. Check alternator. See "Channel 019" in this section.	Disappears when fault is removed
E003	Battery voltage above 16 V	Check alternator. See "Channel 019" in this section.	Disappears when fault is removed
Right bale shape potentiometer			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E112	Open circuit or grounded circuit	Check wires and connectors. Check potentiometer.	Disappears after 5 seconds
E113	Shorted circuit	Check wires and connectors. Check potentiometer.	Disappears after 5 seconds
E114	Right bale shape below minimum value	Check potentiometer adjustment. See "Channel 006" in this section.	Disappears after 5 seconds
E115	Right bale shape above maximum value	Check potentiometer adjustment. See "Channel 006" in this section.	Disappears after 5 seconds
Left bale shape potentiometer			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E122	Open circuit or grounded circuit	Check wires and connectors. Check potentiometer.	Disappears after 5 seconds
E123	Shorted circuit	Check wires and connectors. Check potentiometer.	Disappears after 5 seconds
E124	Left bale shape below minimum value	Check potentiometer adjustment. See "Channel 007" in this section.	Disappears after 5 seconds
E125	Left bale shape above maximum value	Check potentiometer adjustment. See "Channel 007" in this section.	Disappears after 5 seconds

Continued on next page

OUC006,00012FE -19-26SEP07-1/5

BaleTrak Monitor Service

Twine actuator			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E201	Twine actuator disconnected	Check wires and connectors.	Press "Minus" key when actuator is off
E202	Twine actuator faulty or jammed	Check twine actuator.	Press "Minus" key when actuator is off
E203	Twine actuator wiring harness resistance too high	Check wires and connectors. Check twine actuator.	Press "Minus" key when actuator is off
E204	Shorted circuit	Check wires and connectors.	Press "Minus" key when fault is removed
E205	Actuator wire shorted to ground	Check wires and connectors.	Press "Minus" key when fault is removed
Net actuator			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E211	Net actuator disconnected	Check wires and connectors.	Press "Minus" key when actuator is off
E212	Net actuator faulty	Check net actuator.	Press "Minus" key when actuator is off
E213	Net actuator wiring harness resistance too high	Check wires and connectors. Check net actuator.	Press "Minus" key when actuator is off
E214	Shorted circuit	Check wires and connectors.	Press "Minus" key when fault is removed
E215	Actuator wire shorted to ground	Check wires and connectors.	Press "Minus" key when fault is removed
Pickup valve			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E231	Pickup valve disconnected	Check wires and connectors.	Press "Minus" key when fault is removed
E232	Pickup valve shorted to ground	Check wires and connectors. Check pickup valve.	Press "Minus" key when fault is removed
E233	Shorted circuit	Check wires and connectors. Check pickup valve.	Press "Minus" key when fault is removed
Knife valve			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E241	Knife valve disconnected	Check wires and connectors.	Press "Minus" key when fault is removed
E242	Knife valve shorted to ground	Check wires and connectors. Check knife valve.	Press "Minus" key when fault is removed
E243	Shorted circuit	Check wires and connectors. Check knife valve.	Press "Minus" key when fault is removed

Continued on next page

OUCC006,00012FE -19-26SEP07-2/5

BaleTrak Monitor Service

Reverser valve			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E251	Reverser valve disconnected	Check wires and connectors.	Press "Minus" key when fault is removed
E252	Reverser valve shorted to ground	Check wires and connectors. Check reverser valve.	Press "Minus" key when fault is removed
E253	Shorted circuit	Check wires and connectors. Check reverser valve.	Press "Minus" key when fault is removed
Baler rotation speed sensor			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E311	Baler rotation speed sensor disconnected	Check wires and connectors.	Disappears after 5 seconds
E312	Baler rotation speed below minimum	Check sensor adjustment. See "Adjusting Baler Rotation Speed Sensor" in "Service" section. Check sensor. See "Channel 017" in this section.	Disappears after 5 seconds
E313	Baler rotation speed above maximum	Check sensor adjustment. See "Adjusting Baler Rotation Speed Sensor" in "Service" section. Check sensor. See "Channel 017" in this section.	Disappears after 5 seconds
Twine pulley sensor			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E321	Twine ball is empty or twine is not tied around the bale	Replace twine ball. Check twine routing. See "Routing Twine Through Guides" in "Preparing the Baler" section. Check twine pulley sensor adjustment. See "Adjusting Twine Pulley Sensor" in "Service" section.	Press "Minus" key when fault is removed
E322	Twine not cut	Check cutter anvil adjustment. See "Adjusting Single Arm Twine Cutter Anvil" in "Service" section.	Press "Minus" key when fault is removed

Continued on next page

OUC006,00012FE -19-26SEP07-3/5

BaleTrak Monitor Service

Net cut switch (baler with standard net tying device)			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E401	Net cut switch always open	Check wires and connectors. Check net cut switch adjustment. See "Adjusting Net Cut Switch" in "Service" section. Check net cut switch. See "Channel 012" in this section.	Disappears when fault is removed
E402	Net cut switch always closed	Check wires and connectors. Check net cut switch adjustment. See "Adjusting Net Cut Switch" in "Service" section. Check net cut switch. See "Channel 012" in this section.	Disappears when fault is removed
Net cut sensor (baler with CoverEdge™ net tying device)			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E401	No net on bale	Check wires and connectors. Check net cut sensor adjustment. See "Adjusting Net Cut Sensor" in "Service" section. Check net cut sensor. See "Channel 012" in this section.	Disappears when fault is removed
E402	Net not cut	Check wires and connectors. Check net cut sensor adjustment. See "Adjusting Net Cut Sensor" in "Service" section. Check net cut sensor. See "Channel 012" in this section.	Disappears when fault is removed
Oversize/gate switch			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E411	Oversize/gate switch always open	Check wires and connectors. Check oversize/gate switch adjustment. See "Adjusting Oversize/Gate Switch and Full-Size Bale Switch" in "Service" section. Check oversize/gate switch. See "Channel 014" in this section.	Disappears after 5 seconds
E412	Oversize/gate switch always closed	Check wires and connectors. Check oversize/gate switch adjustment. See "Adjusting Oversize/Gate Switch and Full-Size Bale Switch" in "Service" section. Check oversize/gate switch. See "Channel 014" in this section.	Disappears after 5 seconds

BaleTrak Monitor Service

Full-size bale switch			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E431	Full-size bale switch always open	Check wires and connectors. Check full-size bale switch adjustment. See "Adjusting Oversize/Gate Switch and Full-Size Bale Switch" in "Service" section. Check full-size bale switch. See "Channel 013" in this section.	Press "Minus" key when fault is removed
E432	Full-size bale switch always closed	Check wires and connectors. Check full-size bale switch adjustment. See "Adjusting Oversize/Gate Switch and Full-Size Bale Switch" in "Service" section. Check full-size bale switch. See "Channel 013" in this section.	Press "Minus" key when fault is removed
EPROM			
Diagnostic trouble code	Description	Solution	How to clear the code displayed
E601	Memory corrupt	Do your personal settings again.	Disappears after 5 seconds
E602	Memory corrupt	Check your personal settings.	Disappears after 5 seconds
E603	Memory corrupt	See your John Deere dealer.	Disappears when fault is removed
E604	Memory corrupt	Check your personal settings.	Disappears after 5 seconds
E605	Memory corrupt	See your John Deere dealer.	Disappears when fault is removed

OUCC006,00012FE -19-26SEP07-5/5

Diagnostic Mode: User Parameters

The user parameters allow the operator to reset all settings to factory default settings, to select special twine tying programs, to set user parameters and to check and adjust electrical components which are connected to the monitor.

The user parameters are stored in several "Channels" from "CH001" to "CH032".

Switching On the Monitor in Diagnostic Mode

Monitor off, press and hold the COUNTER key (A), then switch ON the monitor by pressing the ON/OFF key (B).

During the power-up, all the LCD screen pictograms are displayed and the buzzer beeps for one second.

Then, "CH001" is displayed on the LCD screen, the monitor is switched in diagnostic mode and the setting of channel 1 is displayed if the counter key is released.

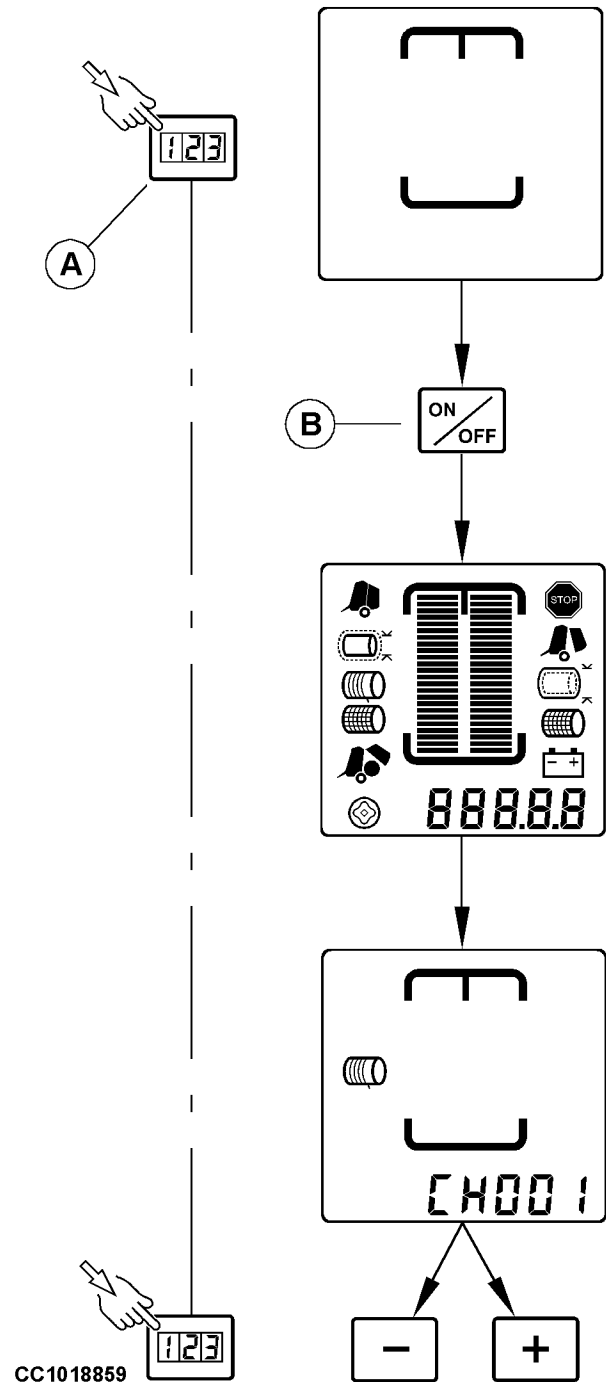
NOTE: To switch ON the monitor in diagnostic mode, do not release the COUNTER key (A) before the LCD screen displays "CH001".

Selecting User Channel

When the monitor is switched in diagnostic mode, press and hold "COUNTER" key (A) and press "PLUS" or "MINUS" key to change the channel.

To return in normal mode and save the user parameters settings, switch OFF the monitor by pressing the ON/OFF key.

A—Counter key
B—ON/OFF key

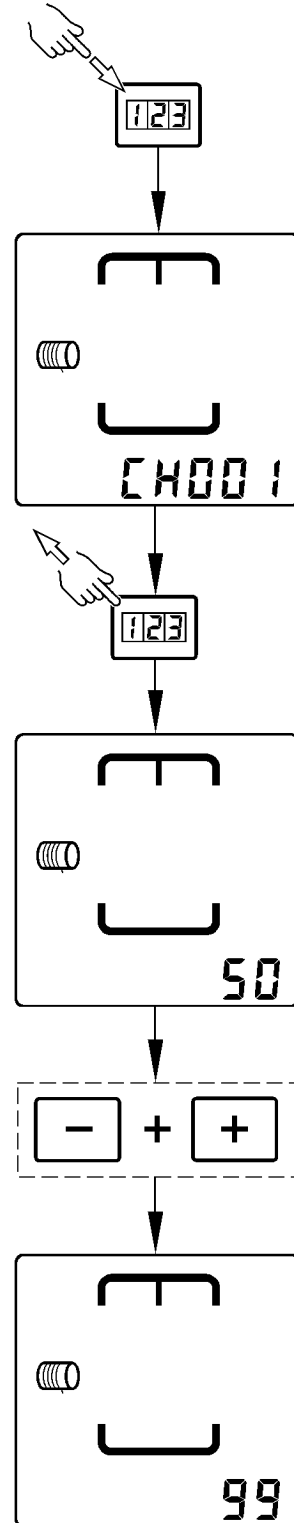


CC1018859

CC1018859 -UN-22DEC00

Channel 001: Reset to Factory Default Settings

When "CH001" is selected "50" is displayed. To reset all twine tying programs to factory default settings, press "PLUS" and "MINUS" keys simultaneously. The LCD screen displays "99".



CC1018860

CC1018860 -UN-22DEC00

Channel 002: Dry Straw Twine Tying Program

When baling dry straw, it may be desirable to quickly place twine across full width of bale to prevent straw from flaking off in the baler.

In "CH002", press "PLUS" key to activate the program. The LCD screen displays "ON".

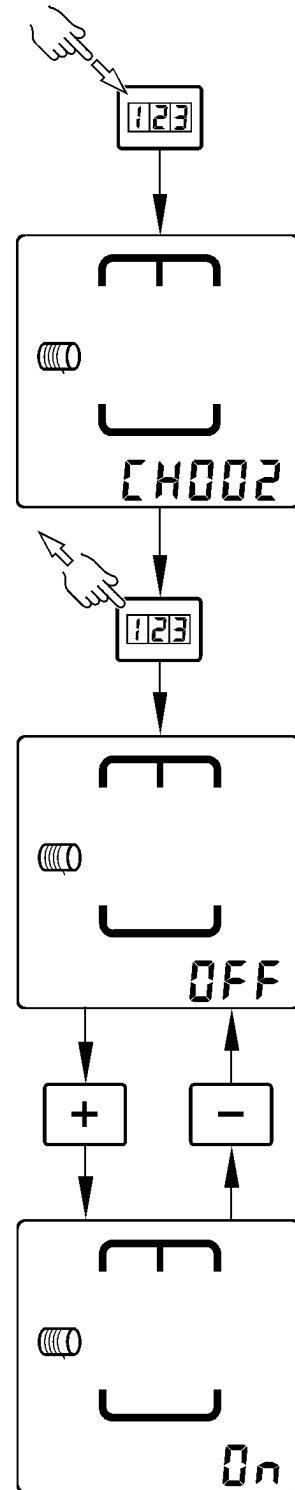
Press "MINUS" key to switch off the program. The LCD screen displays "OFF".

With Double Twine Arm

The dry straw twine program provides full speed twine arm movement from center to edge, then from edge to center. Then, the twine arm comes backs to the edge, pauses to place the set number at tying start, and continues to apply twines as set in the monitor.

With Single Twine Arm

The dry straw twine program provides full speed twine arm movement from right to left, then from left to right. Then, the twine arm comes backs to the left, pauses to place the set number at tying start, and continues to apply twines as set in the monitor.



CC1018861

CC1018861 -UN-22DEC00

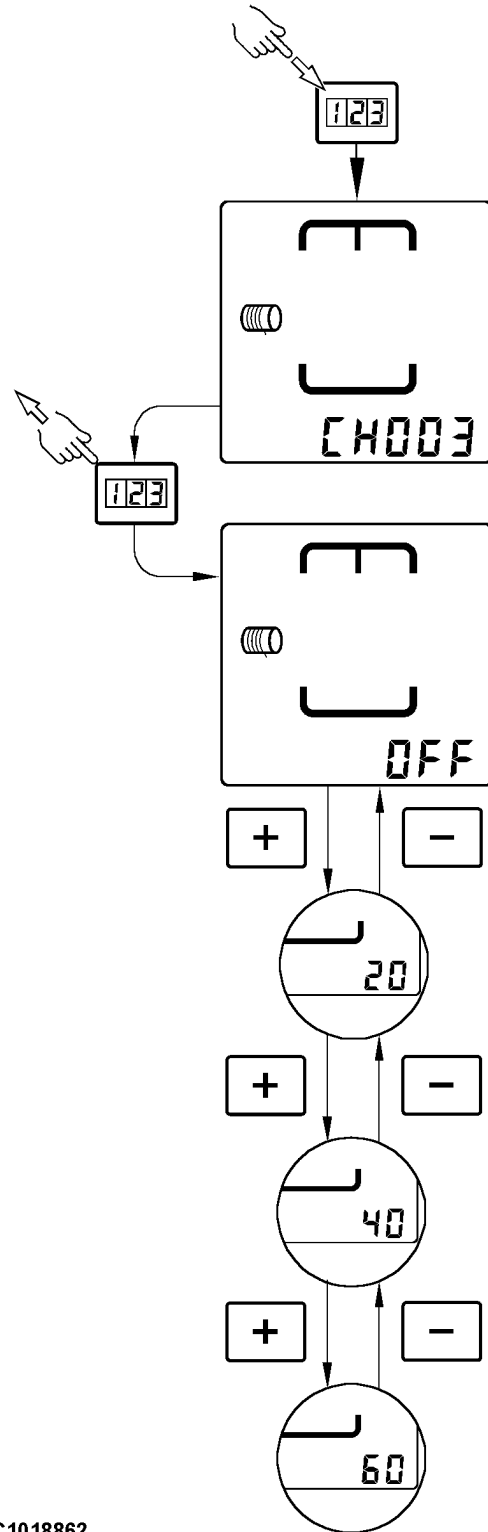
Channel 003: Re-extension Twine Tying Program

This program allows to have more twine coils at the end of the bale tying and may help prevent twine unrolling.

After the set number at tying end has been applied, the twine arm is extended again towards the center of the bale to the set distance and then, it is completely retracted.

In "CH003", press "PLUS" key to activate this program and adjust the re-extension distance to 20, 40 or 60 cm (8, 16 or 24 in.).

Press "MINUS" key to decrease the re-extension distance from 60 cm to 40 or 20 cm (from 24 in. to 16 or 8 in.) and switch off this program. When the re-extension twine tying program is switched off, the LCD screen displays "OFF".



CC1018862

CC1018862 -UN-07FEB01

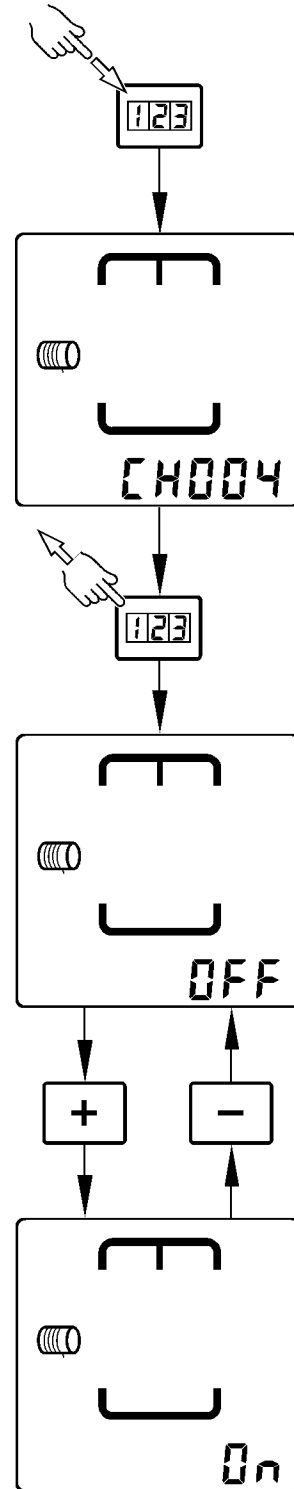
Channel 004: Cinch Tying

This program may decrease loose twine and improve twine spacing at the end of tying.

It places a coil of twine approximately 25 cm (10 in.) away from the end of tying prior to applying the set number at tying end.

In "CH004", press "PLUS" key to activate the cinch tying program. The LCD screen displays "ON".

Press "MINUS" key to switch off the cinch tying program. The LCD screen displays "OFF".



CC1018863

CC1018863 -UN-22DEC00

Channel 005: Not Activated

OUCC006,00010E8 -19-04JUL06-1/1

Channels 006 and 007: Calibration of Bale Shape Potentiometer (if equipped)

"CH006" allows to set the position of right bale shape potentiometer and "CH007" the left bale shape potentiometer.

The adjusting procedure is the same for both sides. Use the appropriate channel for each side.

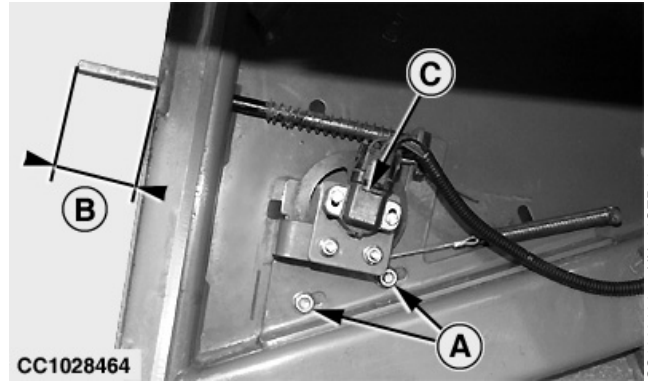
To adjust the potentiometer on the left side, remove shield.

Open the rear gate.

Lock gate in "open" position. (See "Gate Lock Valve" in "Operating - General Purposes" section).

Loosen attaching screws (A) to obtain a distance (B) of 55 mm (2.16 in.).

Tighten attaching screws (A).



A—Attaching screws
B—55 mm (2.16 in.)
C—Right Bale Shape Potentiometer

Continued on next page

OUCC006,00010E7 -19-23NOV06-1/2

Press "PLUS" key to display the corresponding setting value.

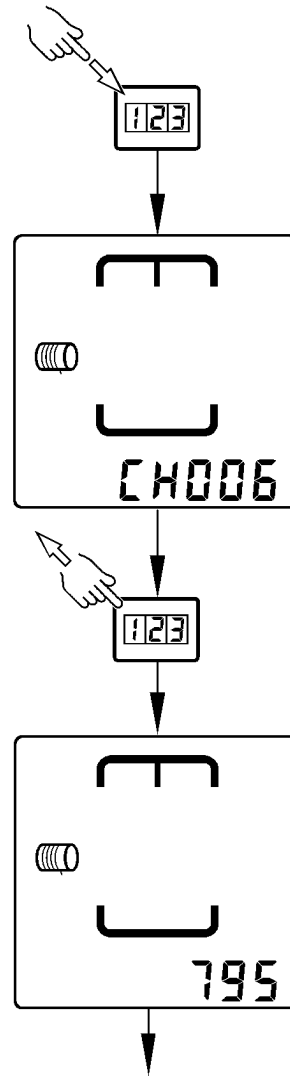
Loosen the two mounting screws (B), then rotate the potentiometer (A) so that monitor beeps continuously and LCD screen displays the value 795.

Tighten mounting screws (B).

Repeat procedure for the other side.

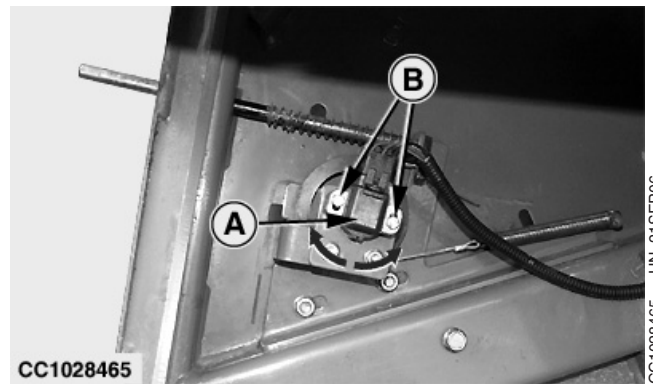
Reinstall shield.

- A—Right bale shape potentiometer
- B—Mounting screws



CC1028574

CC1028574 -UN-21SEP06



CC1028465

CC1028465 -UN-21SEP06

OUCC006,00010E7 -19-23NOV06-2/2

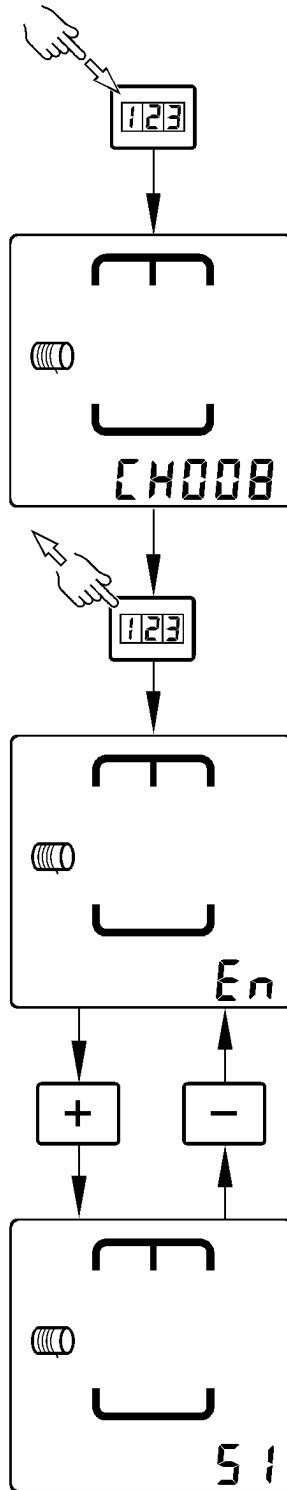
Channel 008: Measurement units

The monitor is factory set to the metric measurement units.

"CH008" allows to switch the measurement units from metric to non-metric.

Press "MINUS" key to select the non-metric units, "En" (English) is displayed. The display will be in inches.

Press "PLUS" key to select the metric units, "SI" (International System) is displayed. The display will be in centimeters.



CC1026735

CC1026735 -JUN-28JAN05

OUCC006,0000F23 -19-11JUL05-1/1

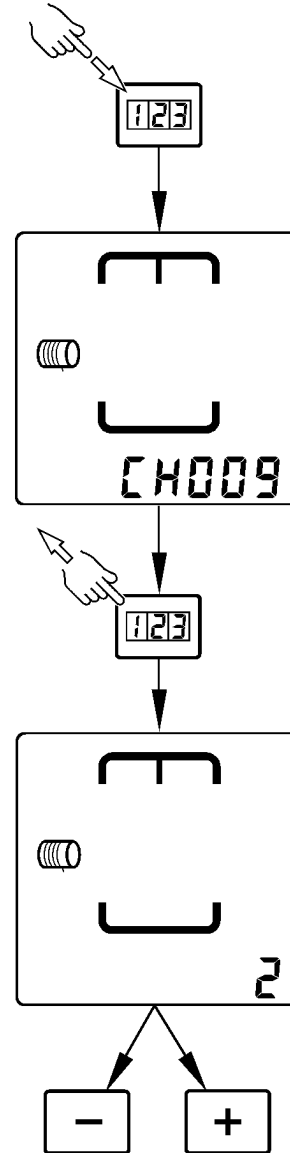
Channel 009: Net Tying Delay

The net tying delay is the time between the tying start indication on the monitor and the activation of net actuator.

The net tying delay provides time to stop tractor forward travel and to avoid crop getting trapped between net layers.

"CH009" allows to set the net tying delay from 0 to 15 seconds. The initial factory setting is 2 seconds.

Press "PLUS" or "MINUS" key to increase or decrease the net tying delay.



CC1018868

CC1018868 -UN-22DEC00

OUC006,0001133 -19-03AUG06-1/1

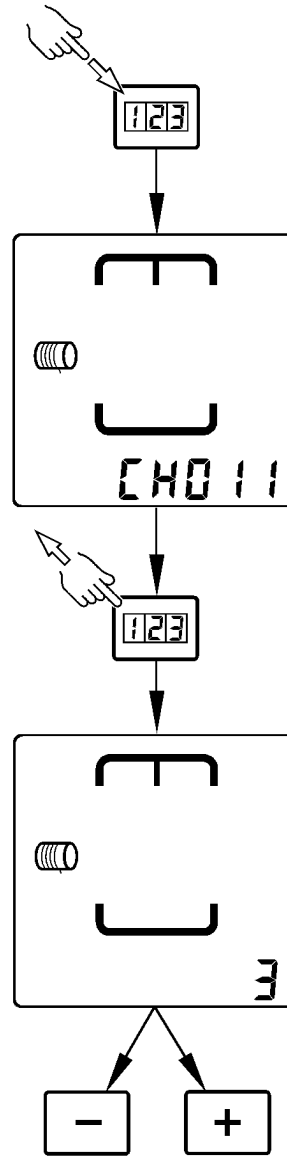
Channel 010: Not Activated

OUC006,00010E9 -19-04JUL06-1/1

Channel 011: Bale Shape Sensitivity

“CH011” allows to set the bale shape sensitivity from 1 (slowest sensitivity) to 5 (fastest sensitivity). The initial factory setting is 3.

Press “PLUS” or “MINUS” key to increase or decrease the bale shape sensitivity.



CC1018870

CC1018870 -UN-22DEC00

OUC006,00006AC -19-22MAY02-1/1

Channel 012: Test of Net Cut Switch (Baler with Standard Net Tying Device)

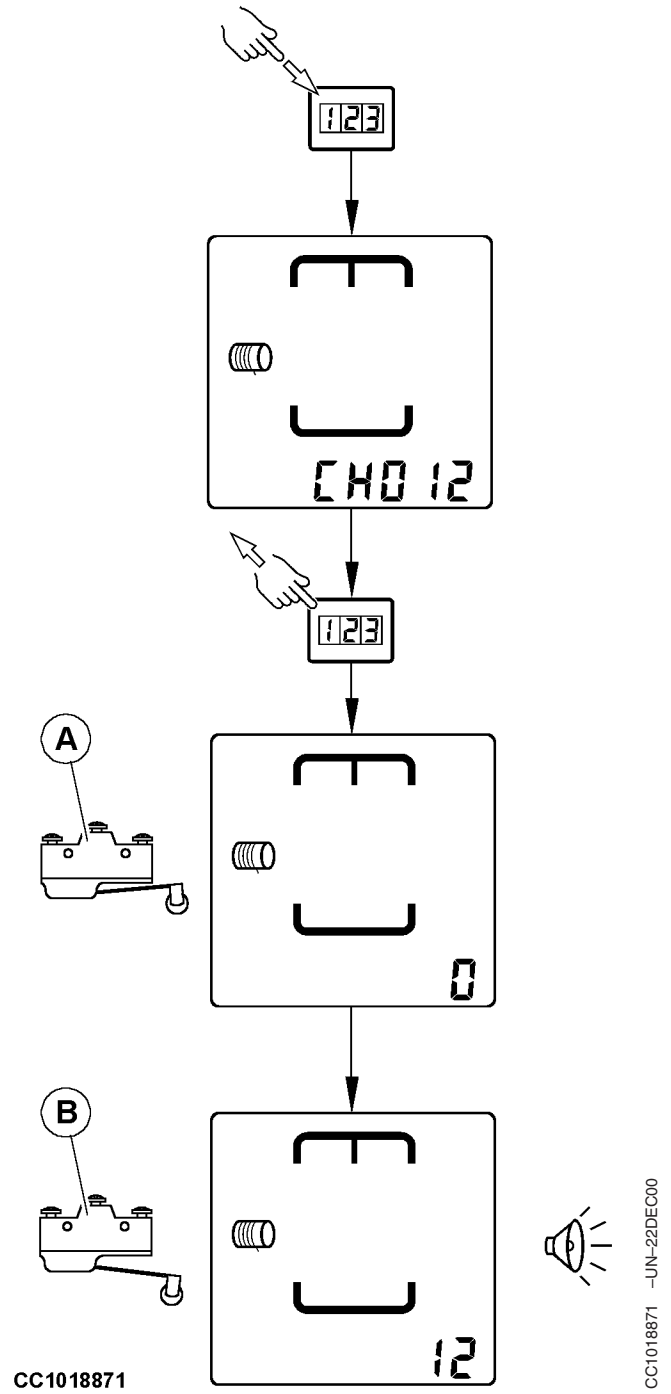
"CH012" allows to test the net cut switch.

The monitor displays "0" when the switch is closed (A) and "12" with a continuous beep when the switch is open (B).

If this test is NOT OK, see your John Deere dealer.

NOTE: See "Adjusting Net Cut Switch" in "Service" section to check the switch adjustment.

- A—Net cut switch closed
- B—Net cut switch opened



Channel 012: Test of Net Cut Sensor (Baler with CoverEdge™ Net Tying Device)

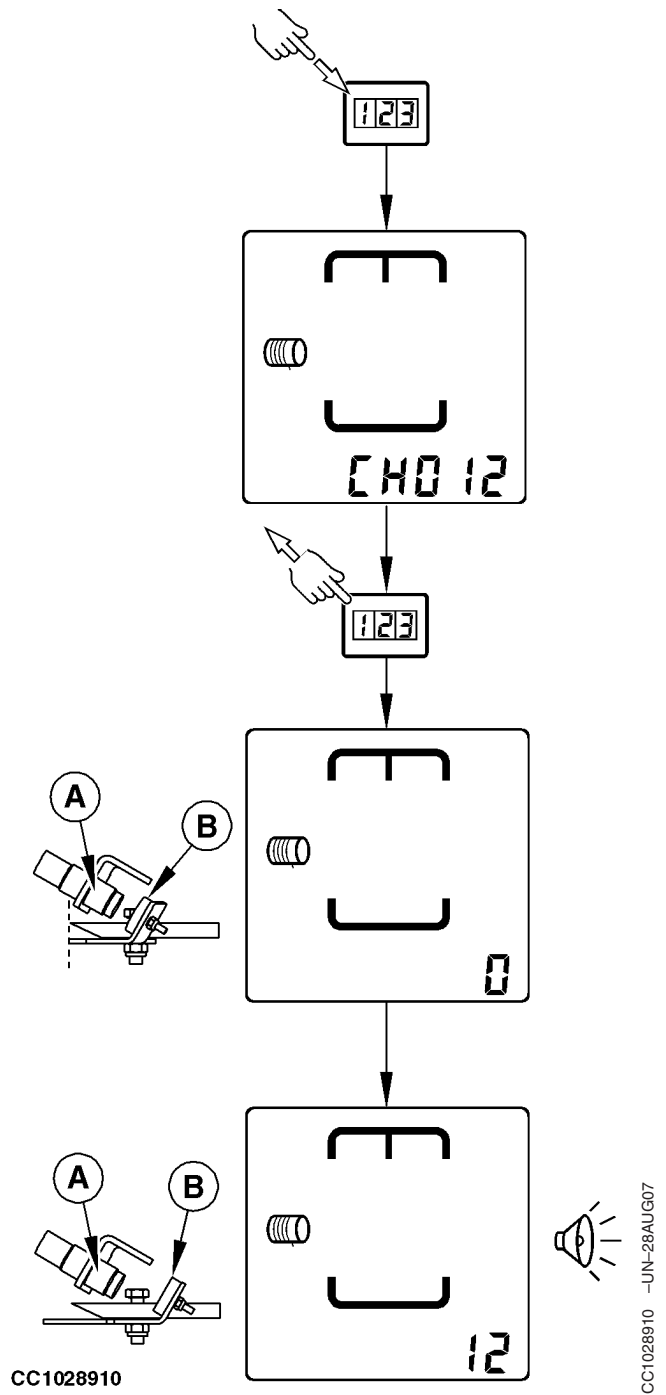
"CH012" allows to test the net cut sensor.

The monitor displays "0" when sensor (A) detect magnet (B).

The monitor displays "12" with a continuous beep when sensor (A) does not detect magnet (B).

NOTE: See "Adjusting Net Cut Sensor" in "Service" section to adjust sensor.

A—Sensor
B—Magnet



Channel 013: Test of Full-Size Bale Switch

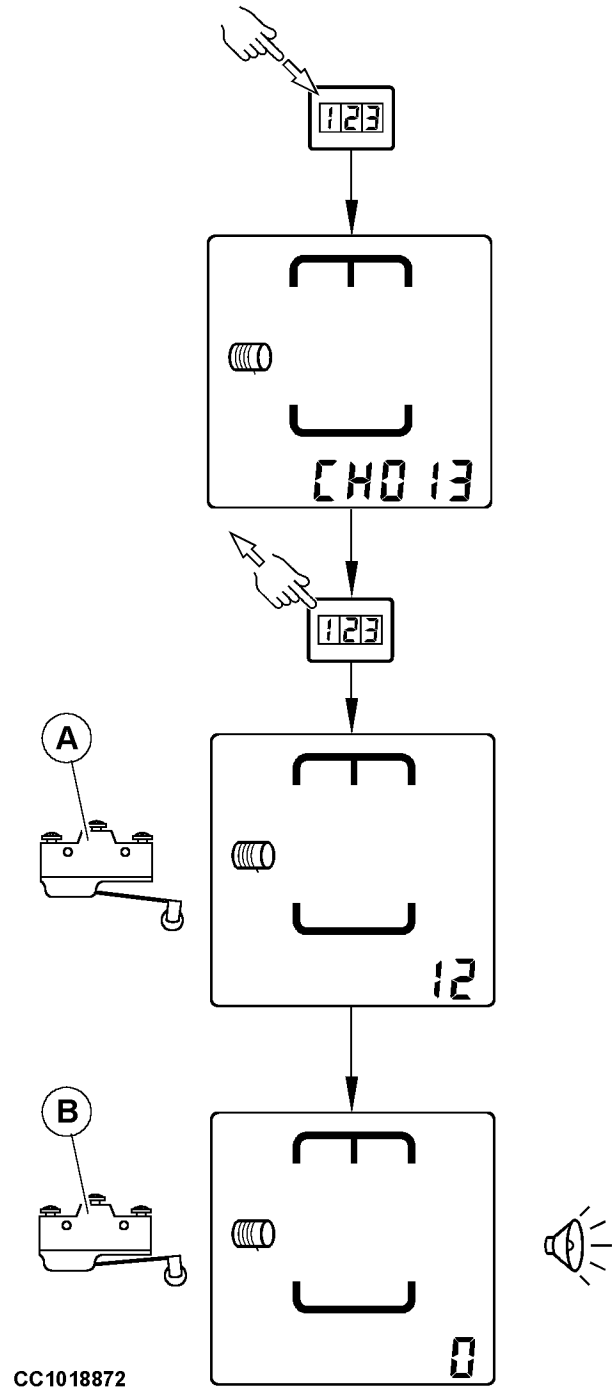
"CH013" allows to test the full-size bale switch.

The monitor displays "12" when the switch is open (A) and "0" with a continuous beep when the switch is closed (B).

If this test is NOT OK, see your John Deere dealer.

NOTE: See "Adjusting Oversize/Gate Switch and Full-Size Bale Switch" in "Service" section to check the switch adjustment.

- A—Full-size bale switch opened
- B—Full-size bale switch closed



CC1018872 -UN-22DEC00

OUC006,0001306 -19-04OCT07-1/1

Channel 014: Test of Oversize/Gate Switch

"CH014" allows to test the oversize/gate switch.

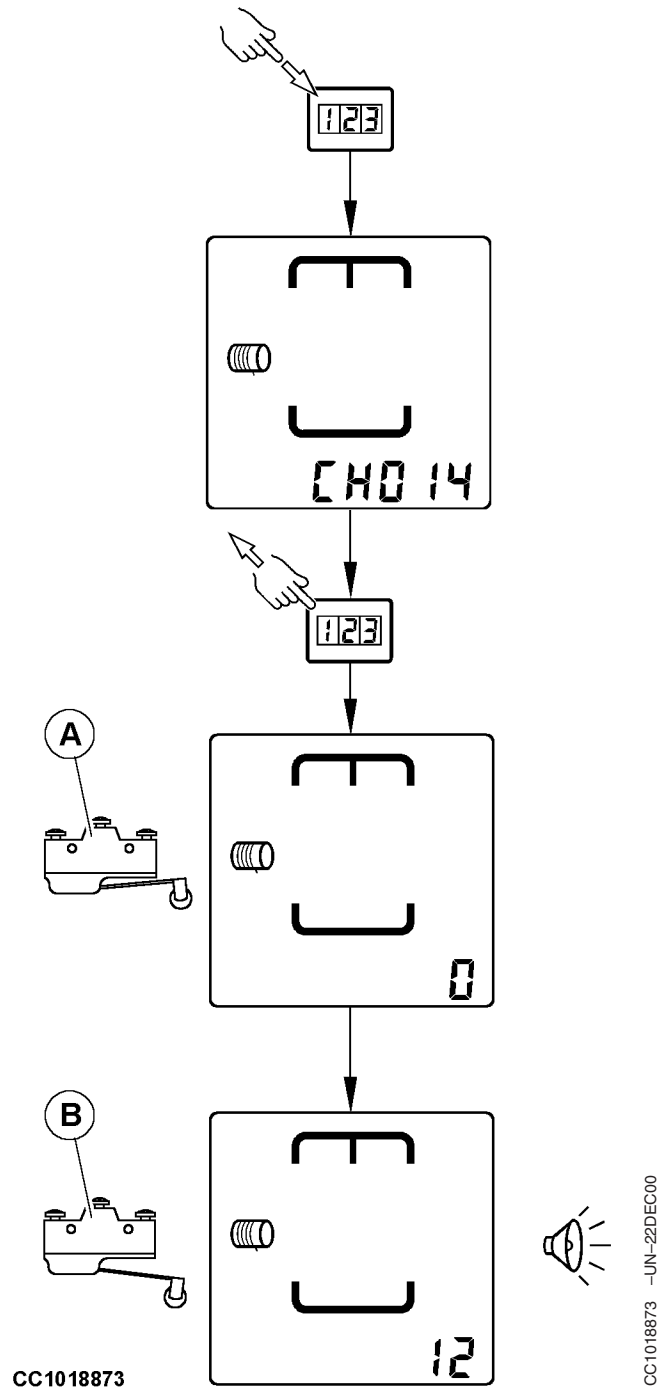
Slightly open the gate of the baler then manually activate the switch.

The monitor displays "0" when the switch is closed (A) and "12" with a continuous beep when the switch is opened (B).

If this test is NOT OK, see your John Deere dealer.

NOTE: See "Adjusting Oversize/Gate Switch and Full-Size Bale Switch" in "Service" section to check the switch adjustment.

- A—Oversize/gate switch closed
- B—Oversize/gate switch opened



OUCC006,0001307 -19-04OCT07-1/1

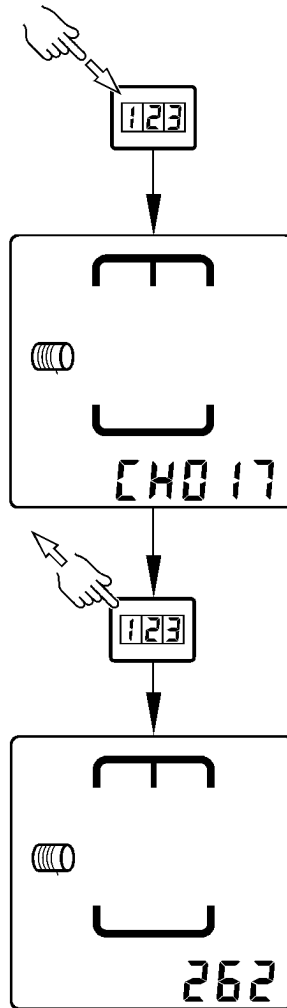
Channel 015 and 016: Not Activated

OUCC006,0000464 -19-22AUG01-1/1

Channel 017: Test of Baler Rotation Speed Sensor

"CH017" allows to check the speed of baler rotation. When the baler is running with a 540 rpm PTO speed, the speed of baler rotation should be 262 rpm.

If this test is NOT OK, check the baler rotation speed sensor adjustment. See "Adjusting Baler Rotation Speed Sensor" in "Service" section or your John Deere dealer.



CC1020288

CC1020288 -UN-30JUL01

OUCC006,00012FD -19-04OCT07-1/1

Channel 018: Test of Actuator Current Consumption

“CH018” allows to display the current consumption of either the twine or net actuator.

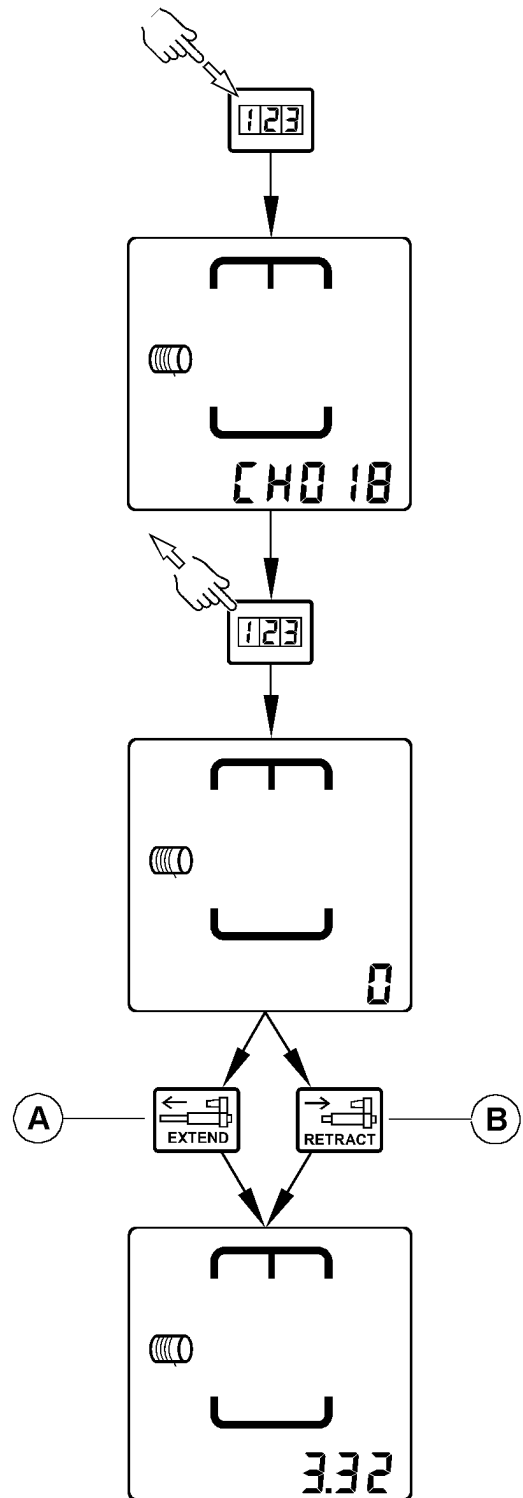
Press “EXTEND” (A) or “RETRACT” (B) key to move the actuator of the selected tying system. While the actuator moves, the current consumption in ampere is displayed on the LCD screen.

Display should show a current flow reading between 2 and 8 amperes while actuator motor is operating during mid stroke (no load).

Continue to activate the actuator to full stroke position. When twine actuator is fully extended or retracted, display should show stall current between 18 and 27 amperes. When net actuator is fully extended or retracted, display should show stall current between 12 and 20 amperes.

- Readings below normal indicate low tractor voltage, or poor or corroded harness connections.
- Readings above normal indicate tying mechanical problem, faulty harness or faulty actuator.
- Current spike reading indicates tying mechanical obstruction.

A—Extend key
B—Retract key



CC1018876

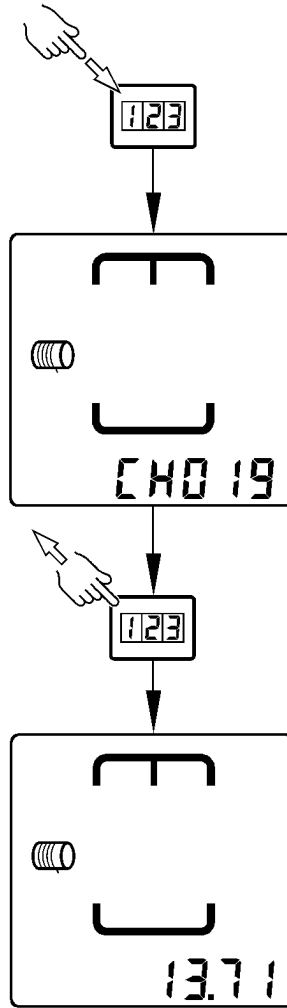
OUC006,00009D3 -19-31JUL03-1/1

CC1018876 -JUN-30JAN01

Channel 019: Voltmeter

“CH019” allows to display the voltage in the electrical circuit.

When this channel is selected, the voltage during the twine or net actuator motion can be checked to detect a resistive line. Press “EXTEND” or “RETRACT” key to move the actuator of the selected tying system. The voltage during the actuator motion is displayed on the LCD screen.



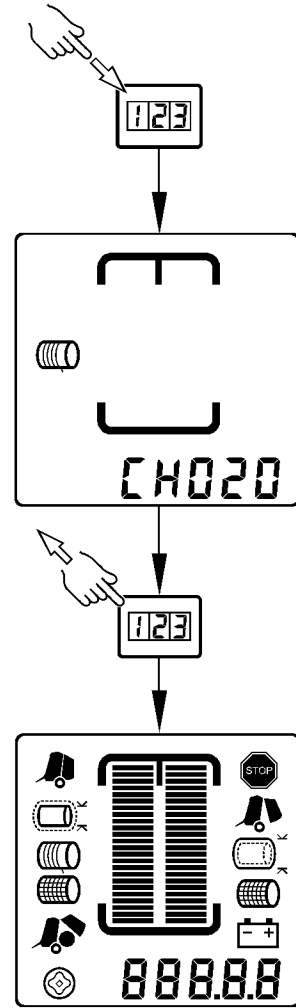
CC1018877

CC1018877 -UN-22DEC00

OUC006,0000561 -19-13NOV01-1/1

Channel 020: Test of LCD Screen

“CH020” allows to test all the LCD screen pictograms.



CC1018878

CC1018878 -UN-22DEC00

OUC006,0000467 -19-22AUG01-1/1

Channel 021: Maximum Actuator Current Consumption

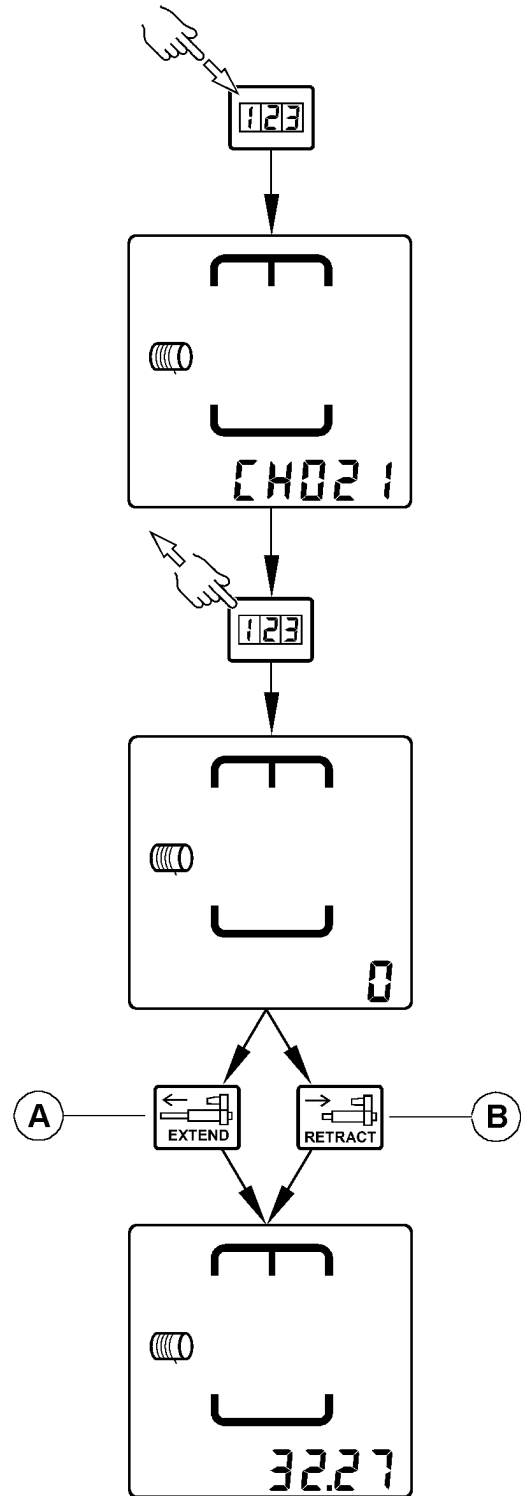
“CH021” allows to display the maximum value of actuator current consumption in either twine or net actuator.

Press “EXTEND” (A) or “RETRACT” (B) key to move the actuator of the selected tying system.

The maximum current consumption measured during the actuator motion is displayed.

To reset the display, extend or retract actuator by pressing on “EXTEND” (A) or “RETRACT” (B) key to full stroke position then press again on the same key.

- A—Extend key
- B—Retract key



CC1018884

CC1018884 -UN-30JAN01

Channel 022: Test of Twine Pulley Sensor 1

Select "CH022" to test the twine pulley sensor 1 (right pulley).

The pulley sensor number 1 informs the monitor about pulley rotation which confirms that the twine has been caught by the bale during the tying cycle.

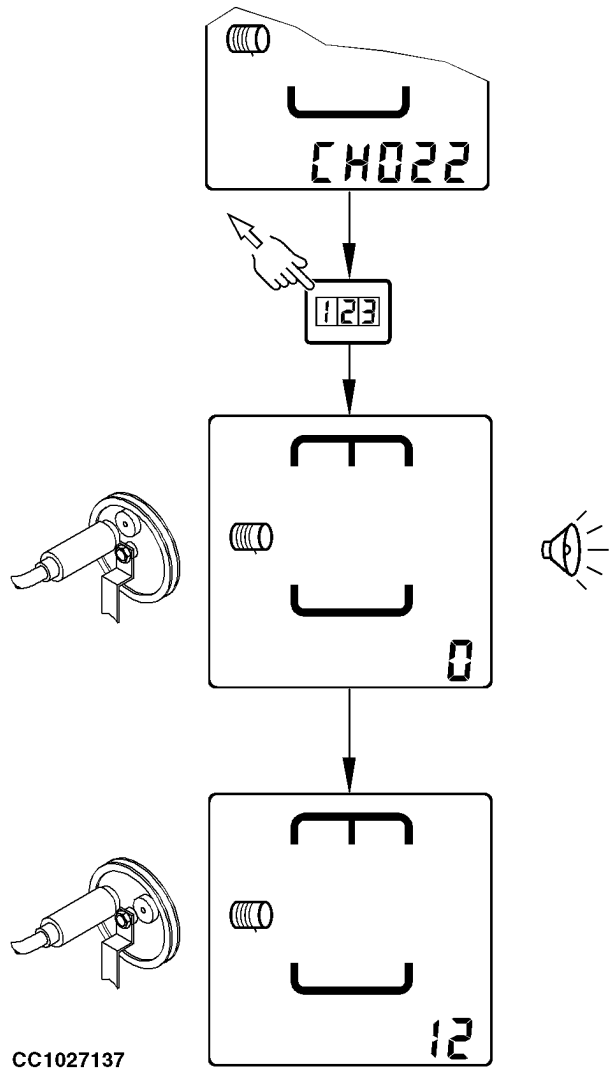
Rotate pulley by hand.

The monitor displays "0" with a continuous beep when the sensor is aligned with the magnet.

The monitor displays "12" when the sensor is not aligned with the magnet.

NOTE: When channel 22 is selected, the speed of pulley 1 is displayed as number of turns per second.

If this test is not OK, check the sensor adjustment. See "Adjusting Twine Pulley Sensor" in "Service" section or your John Deere dealer.



CC1027137

OUCC006.0001105 -19-17JUL06-1/1

CC1027137 -UN-10FEB05

Channel 023: Test of Twine Pulley Sensor 2

Select "CH023" to test the twine pulley sensor 2 (left pulley).

The pulley sensor number 2 informs the monitor about pulley rotation which confirms that the twine has been caught by the bale during the tying cycle.

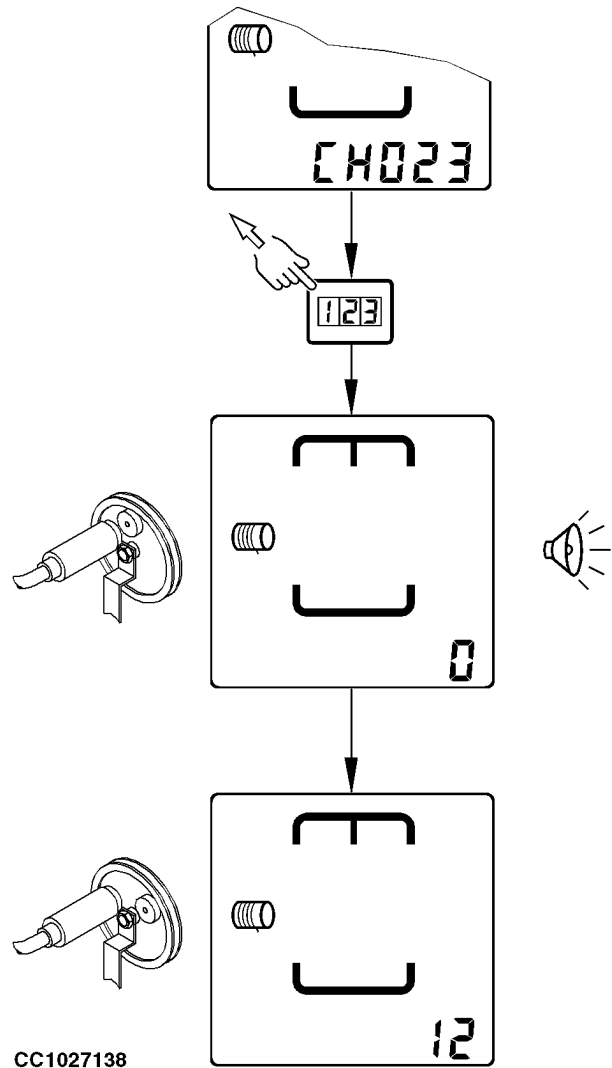
Rotate pulley by hand.

The monitor displays "0" with a continuous beep when the sensor is aligned with the magnet.

The monitor displays "12" when the sensor is not aligned with the magnet.

NOTE: When channel 23 is selected, the speed of pulley 2 is displayed as number of turns per second.

If this test is not OK, check the sensor adjustment. See "Adjusting Twine Pulley Sensor" in "Service" section or your John Deere dealer.



OUCC006.0001106 -19-17JUL06-1/1

CC1027138 -UN-10FEB05

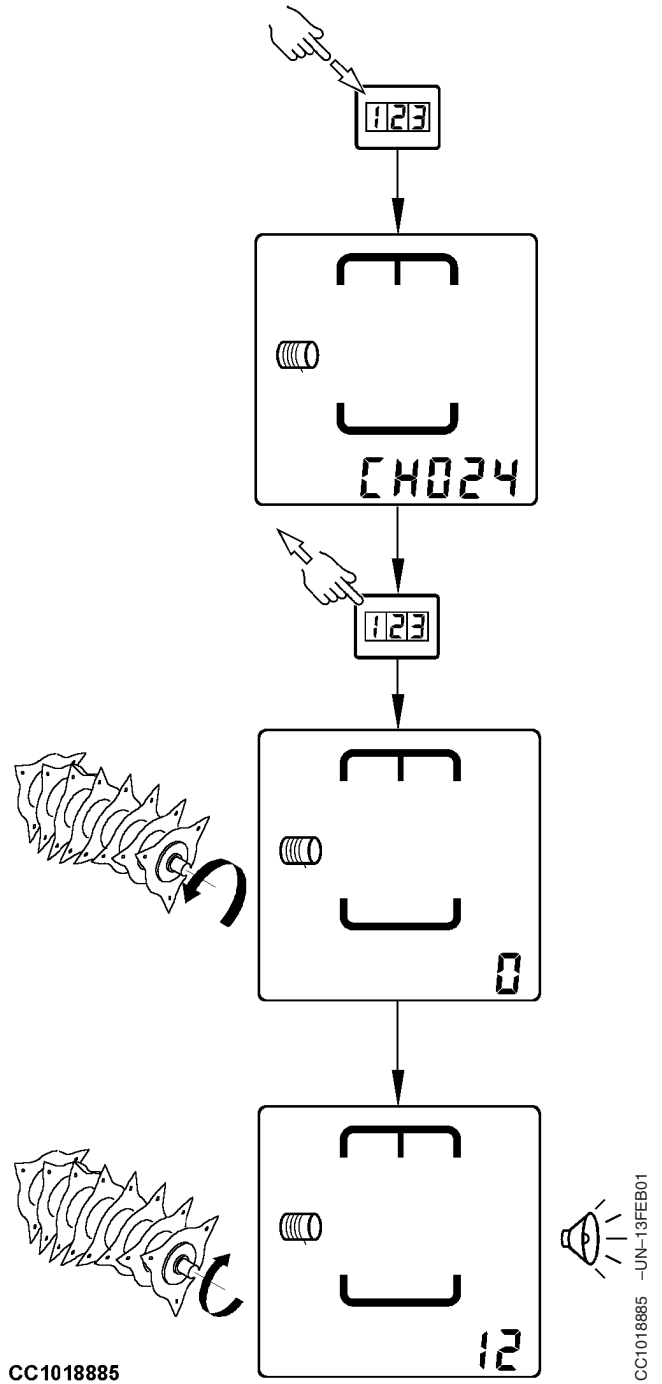
Channel 024: Test of Rotary Feeder Reverse Sensor (BaleTrak Plus Only)

"CH024" allows to test the rotary feeder reverse sensor.

The monitor displays "0" when the gear box is in normal operating mode.

The monitor displays "12" with a continuous beep when the gear box is in reverse mode.

If this test is not OK, check the sensor adjustment. See "Adjusting Rotary Feeder Reverse Sensor" in "Service" section or your John Deere dealer.



OUC006,000123D -19-04DEC06-1/1

Channel 025: Test of Precutter Knives Switches

“CH025” allows to test the knives switches.

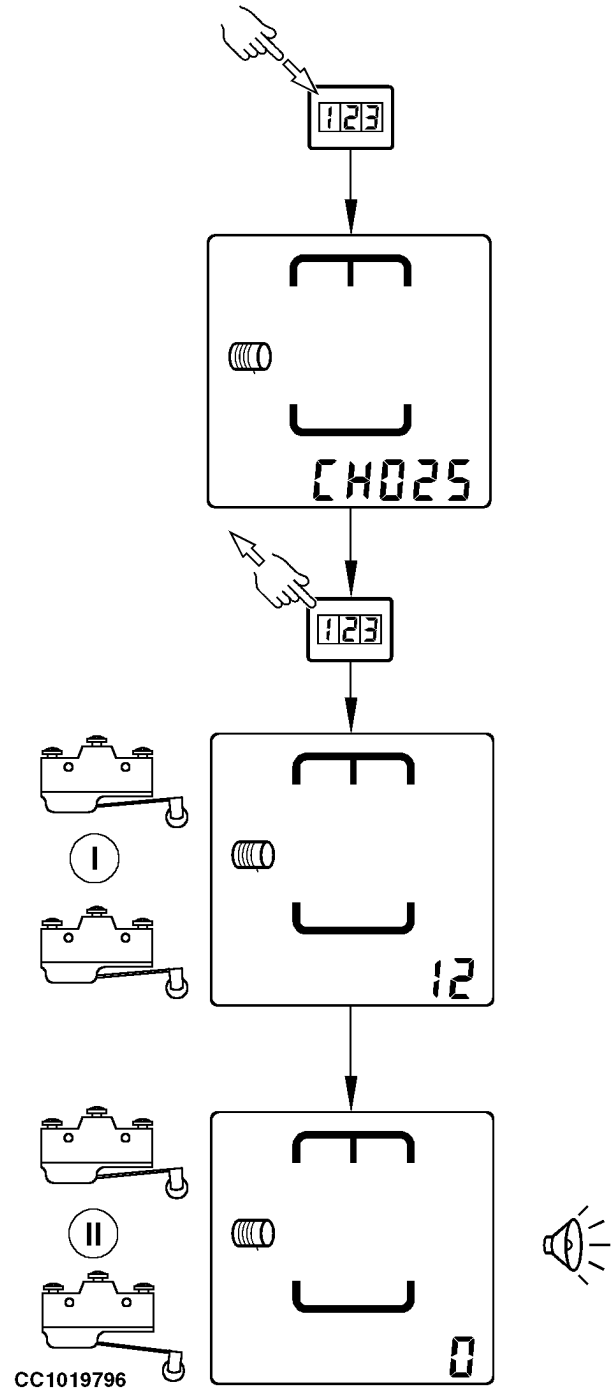
The two knives switches are pressed when the knives are engaged and released when the knives are retracted.

Engage precutter knives (see “Retracting/Engaging Precutter Knives” in “Operating BaleTrak Monitor” section).

- I— The monitor displays “12” when both switches are pressed.
 - II— Manually release one switch then the other: the monitor displays “0” with a continuous beep when one or two switches are released.
- If this test is not OK, see your John Deere dealer.

NOTE: See “Adjusting Precutter knife switches” in “Service” section to check the knives switches adjustment.

- I—Both switches pressed
- II—One or both switches released



OUC006,0000469 -19-22AUG01-1/1

Channel 026, 027 and 028: Not Activated

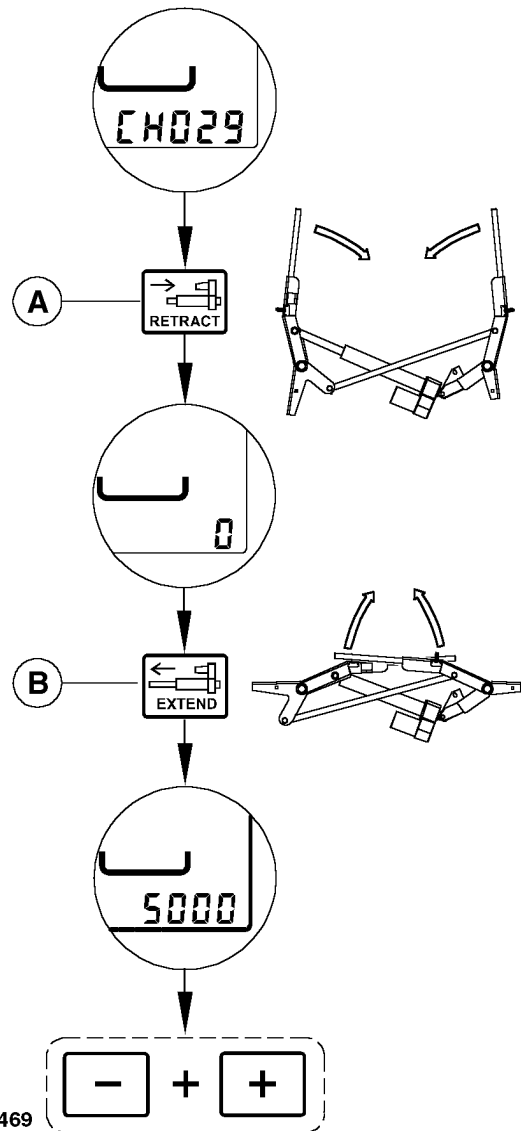
OUC006,000046A -19-22AUG01-1/1

Channel 029: Calibration of Twine Actuator

"CH029" allows to calibrate the twine actuator.

1. Open the baler gate with tractor selective control valve lever and secure its position.
2. Press "EXTEND" key (B) until the twine actuator is fully extended.
3. Adjust twine arm starting point. See "Adjusting Single Arm Twine Tying Starting Point" and "Adjusting Tying Starting Point (for double arm twine tying)" in "Service" section.
4. Select channel 29.
5. Press "RETRACT" key (A) until the actuator is fully retracted and the monitor displays "0".
6. Press "EXTEND" key (B) until the twine actuator is fully extended. Press "EXTEND" key a second time to make sure the actuator is fully extended. The value corresponding to the twine arm position is displayed.
7. Press simultaneously "PLUS" and "MINUS" keys to record the value of twine arm position.
8. Switch OFF monitor.

A—Retract key
B—Extend key



CC1023469

CC1023469 -JUN-30SEP03

Continued on next page

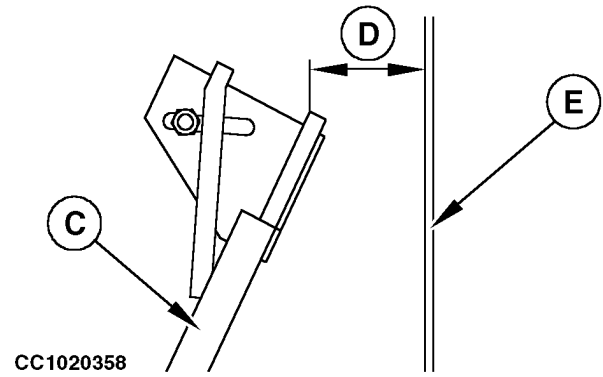
OUCC006,000130F -19-04OCT07-1/2

9. Switch ON monitor in normal operating mode.
10. Adjust the desired distance from tying end to the edge of bale with the monitor.
11. Press "MANUAL START OF TYING CYCLE" key. The tying cycle starts. Switch off the monitor when the actuator is fully extended.
12. Check that distance (D) between the twine arm (C) and the panel of bale chamber (E) is the same as the distance adjusted with monitor.

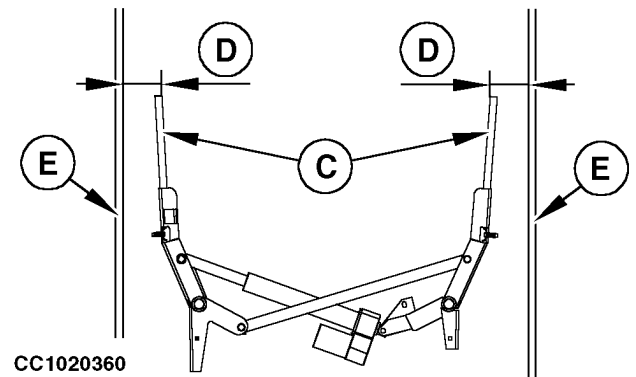
If the twine arm (C) is too close to baler panel (E), decrease the value stored in Channel 29 with two pulses on "MINUS" key.

If the twine arm (C) is too far away from baler panel (E), increase the value stored in Channel 29 with two pulses on "PLUS" key.

Repeat adjustment if necessary, until the distance (D) between the twine arm (C) and the panel of bale chamber (E) is the same as the distance adjusted with monitor (accuracy ± 1 cm (0.4 in.)).



Single Arm Twine Tying



Double Arm Twine Tying

C—Twine arm
D—Distance
E—Panel of bale chamber

CC1020358 -JUN-23AUG01

CC1020360 -JUN-30AUG01

OUC006,000130F -19-04OCT07-2/2

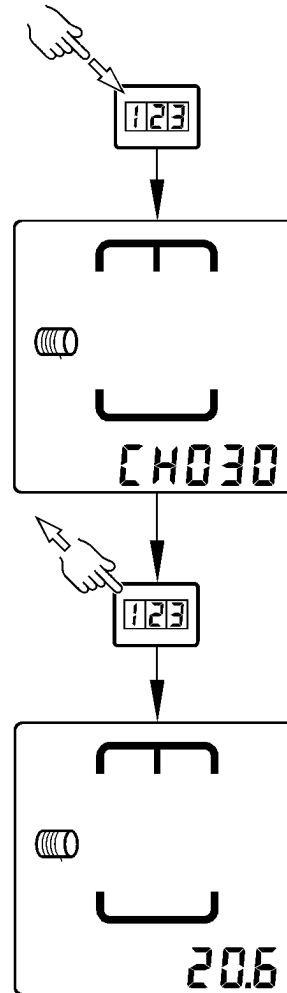
Channel 030: Twine Actuator Stroke

"CH030" displays the total stroke of the twine actuator.

IMPORTANT: Do not change the value.

The value displayed must be 20.6.

If necessary, press "PLUS" or "MINUS" key to reach the specified value.



CC1020068

CC1020068 -UN-10JUL01

OUC006,0000BED -19-03AUG06-1/1

Channel 031: Adjusting Tying End Distance (Single Arm Tying)

“CH031” allows to adjust the tying end distance (B).

IMPORTANT: The twine actuator must be calibrated before the right-hand distance between tying end and edge of bale is adjusted. See “Channel 029: Calibration of Twine Actuator” in this Section.

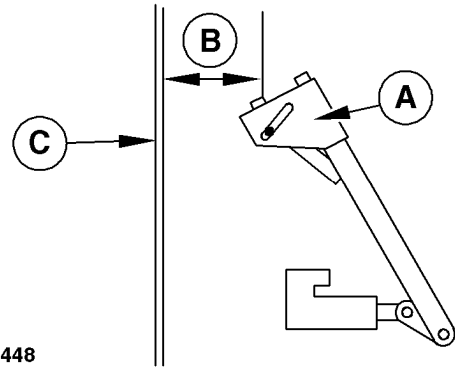
1. Calibrate twine actuator.
2. Press “MANUAL START OF TYING CYCLE” key to start a tying cycle.
3. Switch off the monitor when the twine arm is in tying end position.
4. Check that the actual distance (B) between the twine arm (A) and the right-hand panel (C) of bale chamber is the same as the distance adjusted with monitor.

If the twine arm (A) is too close to the right-hand panel (C), press “MINUS” key to decrease the value stored in Channel 031.

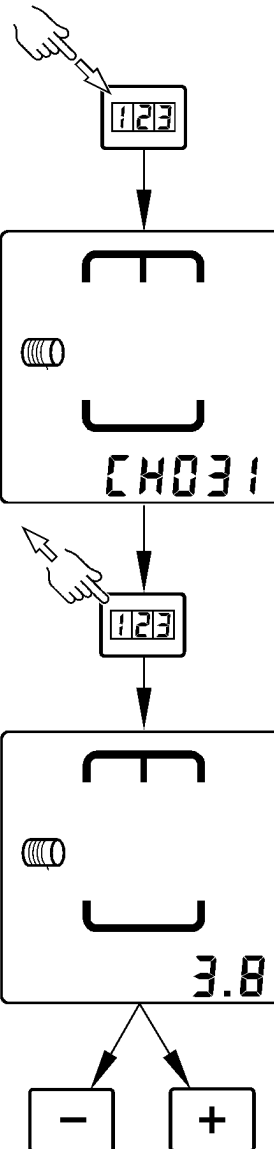
If the twine arm (A) is too far away from the right-hand panel (C), press “PLUS” key to increase the value stored in Channel 031.

A—Single arm
B—Tying end distance
C—Right-hand panel

CC1023448



CC1023448 -JUN-30SEP03



CC1023312

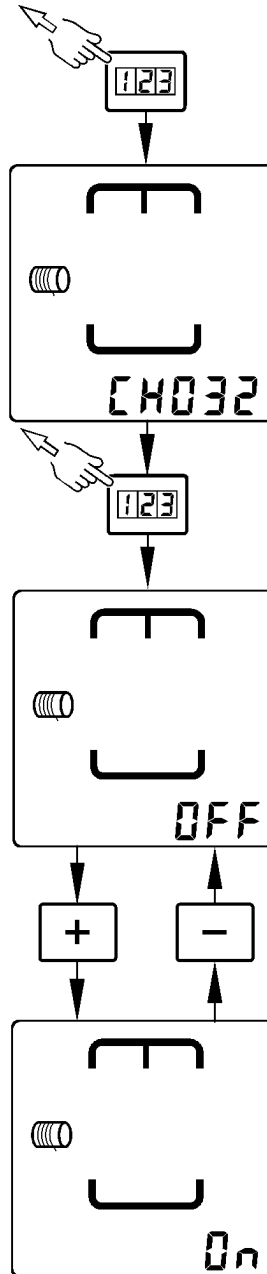
CC1023312 -JUN-30JUL03

Channel 032: Automatic Start of Tying Cycle

"CH032" allows to enable or disable automatic start of tying cycle.

In "CH032" press "PLUS" key to enable automatic start of tying cycle. The LCD screen displays "ON".

Press "MINUS" key to disable automatic start of tying cycle. The LCD screen displays "OFF".



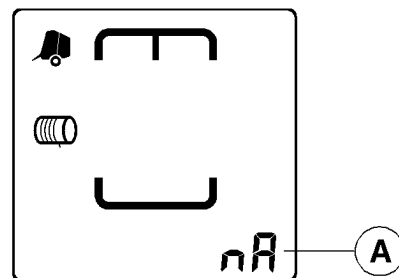
CC1023442

OUC006,00009EF -19-15SEP03-1/2

CC1023442 -UN-18SEP03

NOTE: When the automatic start of tying cycle is disabled, "nA" code (A) flashes in normal mode.

A—"nA" code



CC10234423

OUC006,00009EF -19-15SEP03-2/2

CC1023443 -UN-18SEP03

Storage

Preparing the Baler for Storage

Remove net roll and twine balls. Store in a cool, dry place.

IMPORTANT: If the net tying device is going to be stored for a long period of time, place rubber roll brake in unlock position.

- **For baler with standard net tying device, avoid deformation of rubber roll by releasing feed roll pressure.**
- **For baler with CoverEdge net tying device, place a piece of cardboard between feed rolls, all across their width.**

Release belt tension (if equipped).

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

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

Sharpen and grease knives.

Coat exposed cylinder rods with grease to prevent rusting.

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

All parts from which the paint has been worn should be painted or coated with oil.

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

For MultiCrop baler, clean conveyor chain and rollers. Dry thoroughly and coat with a heavy oil.

Protect electrical connectors against corrosion with adequate fluid.

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

OUCC006,000110B -19-02FEB07-1/1

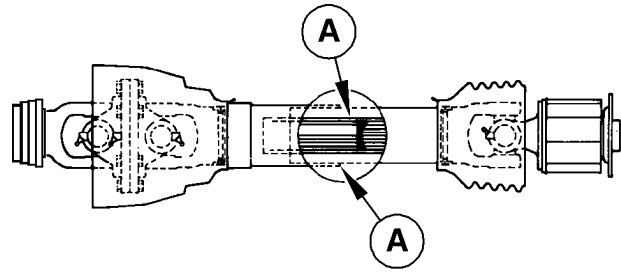
Storing Baler at the End of Season

Store baler in a dry sheltered place. If stored outside, cover with waterproof material.

If baler must be stored outside, belt life (if equipped) can be prolonged by releasing tension, covering or removing belts to protect from sunlight etc. Check hooks and store belts in a cool dry place.

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

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



CC1027011

CC1027011 -JUN-27-JAN05

OUCC006,000110D -19-27JUL06-1/1

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.

On balers equipped with ELC or BaleTrak™ Monitor, check for correct functioning.

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

Only for baler with standard net tying device, apply talcum powder to rubber feed roll.

Check areas which will contact net roll. These areas must be clean and smooth to help prevent net wrapping on rubber coated roll. See "Care of Net Tying Device" in "Preparing the Baler" section.

Check adjustments of net tying and check that net knife is sharp. See "Service" section.

Specifications

Specifications for 568 Baler

Size of Bales

Diameter

MultiCrop baler	1.25 m to 1.30 m (4 ft 1.2 in. to 4 ft 3.2 in.)
Other than MultiCrop baler	1.25 m to 1.35 m (4 ft 1.2 in. to 4 ft 5.1 in.)
Width	1.17 m (3 ft 10 in.)

Baler

Weight of 568 SilageSpecial ^a	2730 kg (6019 lb)
Weight of 568 MultiCrop ^a	2745 kg (6052 lb)
Length, gate closed	4.15 m (13 ft 7.4 in.)
Length, gate open	4.65 m (15 ft 3.1 in.)
Height, gate closed	2.20 m (7 ft 2.6 in.)
Height, gate open	3.40 m (11 ft 1.9 in.)
Width (with 19/45-17 tires)	2.46 m (8 ft 0.8 in.)
^a (depending on configuration)	

2.00 m (6 ft 6.7 in.) MaxiCut Pickup

Width (between flares)	2.00 m (6 ft 6.7 in.)
Width (between outer teeth)	1.65 m (5 ft 5 in.)
Tooth bars	4
Number of teeth	104
Tooth spacing	66 mm (2.5 in.)
Stripper diameter	255 mm (10 in.)
Number of knives	14 (retractable)
Knife spacing	70 mm (2.75 in.)

2.00 m (6 ft 6.7 in.) RotoFlow Pickup

Width (between flares)	2.00 m (6 ft 6.7 in.)
Width (between outer teeth)	1.65 m (5 ft 5 in.)
Tooth bars	4
Number of teeth	104
Tooth spacing	66 mm (2.5 in.)
Stripper diameter	255 mm (10 in.)

Twine/Net Tying

Control	Manual or automatic
Type	Electrically driven
Twine spacing	Manually or automatically controlled
Number of net turns	Manually or automatically controlled
Twine cut	Visual and sound alarm
Net cut	Sound alarm

Miscellaneous

PTO shaft speed	540 rpm
Drive protection	Shear bolt or cam type clutch
Powerline	Constant velocity powerline
Recommended tractor power (minimum)	52 kW (70 hp) at PTO
Tire size	11.5/80 x 15.3 (10 PR)
	19/45 - 17 (10 PR)
	500/50 - 17 (10 PR)
	15/55 - 17 (10 PR)
Tongue	Adjustable

Specifications

Sound Level

Max. sound level in accordance with EN1553; measurement method
in accordance with ISO3744 (average value) 85 dB(A)

OUCC006,000110F -19-21DEC06-2/2

Specifications

Specifications for 578 Baler

Size of Bales

Diameter	1.25 m to 1.35 m (4 ft 1.2 in. to 4 ft 5.1 in.)
Width	1.17 m (3 ft 10 in.)

Baler

Weight of 578 ^a	2760 kg (6084 lb)
Length, gate closed	4.15 m (13 ft 7.4 in.)
Length, gate open	4.65 m (15 ft 3.1 in.)
Height, gate closed	2.20 m (7 ft 2.6 in.)
Height, gate open	3.40 m (11 ft 1.9 in.)
Width (with 19/45-17 tires)	2.46 m (8 ft 0.8 in.)

^a(depending on configuration)

2.00 m (6 ft 6.7 in.) MaxiCut Pickup

Width (between flares)	2.00 m (6 ft 6.7 in.)
Width (between outer teeth)	1.65 m (5 ft 5 in.)
Tooth bars	4
Number of teeth	104
Tooth spacing	66 mm (2.5 in.)
Stripper diameter	255 mm (10 in.)
Number of knives	14 (retractable)
Knife spacing	70 mm (2.75 in.)

2.20 m (7 ft 2.6 in.) MaxiCut Pickup

Width (between flares)	2.20 m (7 ft 2.6 in.)
Width (between outer teeth)	1.93 m (6 ft 4 in.)
Tooth bars	4
Number of teeth	120
Tooth spacing	66 mm (2.5 in.)
Stripper diameter	255 mm (10 in.)
Number of knives	14 (retractable)
Knife spacing	70 mm (2.75 in.)

Twine/Net Tying

Control	Manual or automatic
Type	Electrically driven
Twine spacing	Manually or automatically controlled
Number of net turns	Manually or automatically controlled
Twine cut	Visual and sound alarm
Net cut	Sound alarm

Miscellaneous

PTO shaft speed	540 rpm
Drive protection	Shear bolt or cam type clutch
Powerline	Constant velocity powerline
Recommended tractor power (minimum)	63 kW (85 hp) at PTO
Tire size	11.5/80 x 15.3 (10 PR)
	19/45 - 17 (10 PR)
	500/50 - 17 (10 PR)
	15/55 - 17 (10 PR)
Tongue	Adjustable

Continued on next page

OUC006,0001110 -19-15JAN07-1/2

Specifications

Sound Level

Max. sound level in accordance with EN1553; measurement method
in accordance with ISO3744 (average value) 85 dB(A)

OUCC006,0001110 -19-15JAN07-2/2

Declaration of Conformity

John Deere Arc-Lès-Gray
2, Avenue Jean Jaurès
F-70100 Arc-Lès-Gray

The Round Balers

Models.....568 and 578

comply with the EU provisions:
98/37/EEC Machine Directive
89/336/EEC..... EMC Directive
and EN704..... Pickup Balers

Arc-Lès-Gray, 01 October 2001



Brian A. LANZEN

Manager Product Engineering

CC1018830 -UN-22FEB01

OUCC006,000047B -19-31AUG01-1/1

Serial Numbers

Serial Number Plates

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

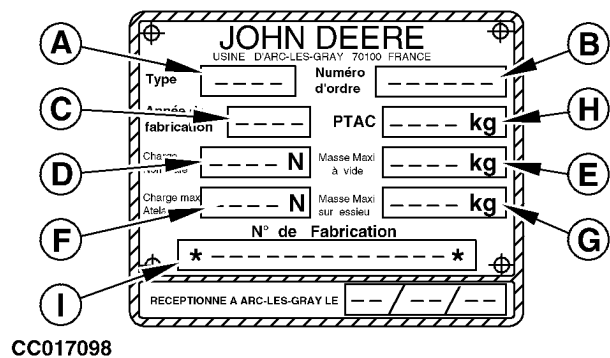
These numbers and letters are required when ordering baler or attachment replacement parts.

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

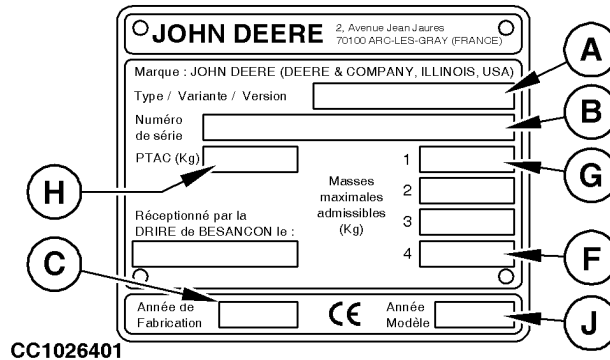
OUC006,00004B4 -19-06SEP01-1/1

Serial Number Plate Description

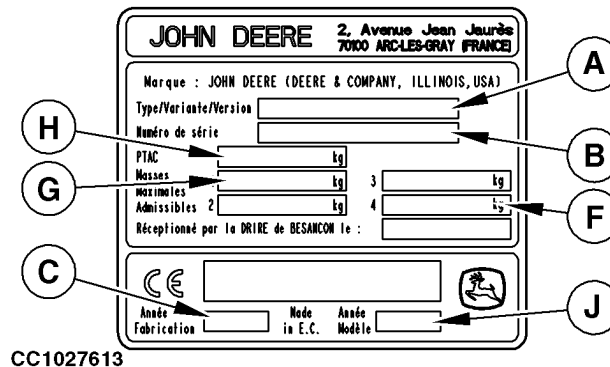
- A—Model designation
- B—Serial number
- C—Year of production
- D—Nominal load
- E—Weight
- F—Maximum load at hitch
- G—Maximum load on axle
- H—Maximum permissible total weight
- I—Product identification number
- J—Model year



Serial Number Plate (up to S.N. 48999)



Serial Number Plate (from S.N. 50000 to S.N. 68999)

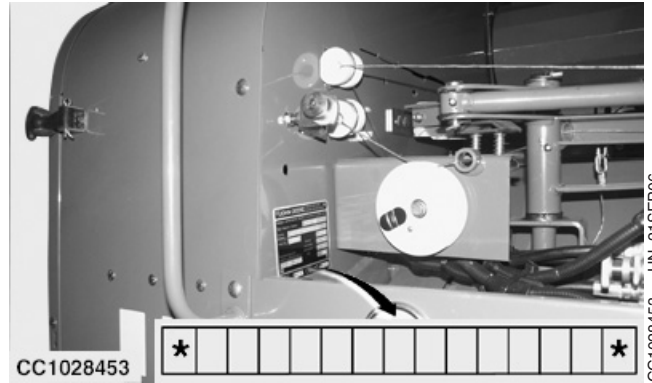


Serial Number Plate (from S.N. 70000)

OUC006,0001159 -19-29AUG06-1/1

Baler Identification Number

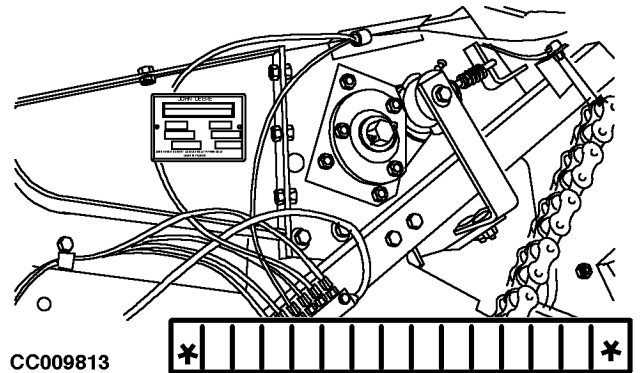
The baler identification number plate is located on the right-hand side of the baler, behind the hinged protection screen.



OUCC006.00010DC -19-29JUN06-1/1

Standard Net Tying Serial Number

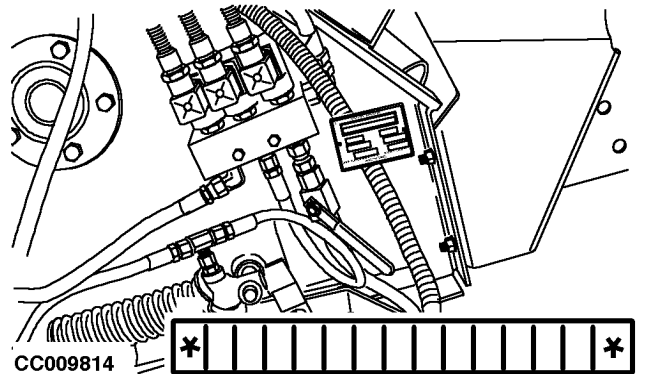
On some balers, there is a serial number plate located on the left-hand side of the standard net tying frame.



OUCC006.0001251 -19-05JAN07-1/1

Rotary Feeder Device Serial Number

On some balers, there is a serial number plate located on the left-hand side of the rotary feeder device frame.



OUCC006.0001252 -19-05JAN07-1/1

Keep Proof of Ownership

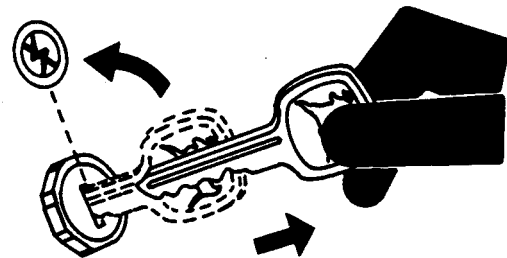
1. Maintain in a secure location an up-to-date inventory of all product and component serial numbers.
2. Regularly verify that identification plates have not been removed. Report any evidence of tampering to law enforcement agencies and order duplicate plates.
3. Other steps you can take:
 - Mark your machine with your own numbering system
 - Take color photographs from several angles of each machine



DX,SECURE1 -19-18NOV03-1/1

Keep Machines Secure

1. Install vandal-proof devices.
2. When machine is in storage:
 - Lower equipment to the ground
 - Set wheels to widest position to make loading more difficult
 - Remove any keys and batteries
3. When parking indoors, put large equipment in front of exits and lock your storage buildings.
4. When parking outdoors, store in a well-lighted and fenced area.
5. Make note of suspicious activity and report any thefts immediately to law enforcement agencies.
6. Notify your John Deere dealer of any losses.



TS230 -UN-24MAY89

DX,SECURE2 -19-18NOV03-1/1

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