

A420R and A520R Round Bale Accumulator Operator's (North America)



JOHN DEERE

OPERATOR'S MANUAL

A420R and A520R Round Bale Accumulator (North America)

OMFH338764 ISSUE H9 (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.

Additional Proposition 65 Warnings can be found in this manual.

John Deere Mexico

North America Edition
PRINTED IN U.S.A.

Introduction

Foreword

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

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

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

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

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

WARRANTY is provided as part of John Deere's support

program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate or statement which you should have received from your dealer

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

THE TIRE MANUFACTURER'S warranty applicable to your machine may not apply outside the U.S.

If you are not the original owner of this machine, it is in your interest to contact your local John Deere dealer to inform them of this unit's serial number. This will help John Deere notify you of any issues or product improvements.

DX,IFC2-19-03APR09

Machine Identification



4 ft Round Bale Accumulator

APY00351—UN—12MAR18

AL61114,000043F-19-12MAR18

Trademarks

Trademarks	
Grease-Gard™	Trademark of Deere & Company
SERVICEGARD™	Trademark of Deere & Company
Extreme-Gard™	Trademark of Deere & Company
Teflon®	Trademark of Du Pont Co.
Torq-Gard™	Trademark of Deere & Company
BaleTrak™	Trademark of Deere & Company
ComfortGard™	Trademark of Deere & Company
Sound-Gard™	Trademark of Deere & Company
MegaWide™	Trademark of Deere & Company

AL61114,0000438-19-12MAR18

Glossary of Terms

ITEM	ABBREVIATION	DESCRIPTION
Performance Classification	GC-LB	Express high-quality, multipurpose grease
National Lubricating Grease Institute	NLGI	Expresses a measure of the relative hardness of a grease used for lubrication
Gallons per Minute	gpm	Amount of fluid displaced over a period of one minute
Right-Hand	RH or R-H	Abbreviation
Left-Hand	LH or L-H	Abbreviation
Gear Lubricant	GL	Abbreviation
Inch	in	Abbreviation
Pounds-inch	lb.-in.	Abbreviation
Pound-foot	lb.-ft.	Abbreviation
Newton-metre	N-m	Abbreviation
US gallon	US gal	Abbreviation
Liter	L	Abbreviation
Millimeter	mm	Abbreviation
US quart	U.S. qt	Abbreviation
Kilowatt	kW	Abbreviation
Outside Diameter	OD	Abbreviation
Revolutions per Minute	rpm	Abbreviation
Kilometer per Hour	km/h	Abbreviation
Miles per Hour	mph	Abbreviation
American Petroleum Institute	API	Automotive Motor Oils Classification
Horse Power	hp	Abbreviation
Power Take-Off	PTO	Abbreviation
Revolutions per Minute	rpm	Abbreviation
Slow Moving Vehicle	SMV	Warning sign on the rear of the tractor
Society of Automotive Engineers	SAE	Engineering Standards Organization
American Society of Agricultural and Biological Engineers	ASABE	Engineering Standards Organization
Without	W/O	Abbreviation
Heavy Duty	HD	Abbreviation
Selective Control Valve	SCV	Abbreviation
Pre-Delivery Inspection	PDI	Abbreviation
Fahrenheit	F	Abbreviation
Volts Direct Current	VDC	Abbreviation
Kilograms	kg	Abbreviation

Introduction

ITEM	ABBREVIATION	DESCRIPTION
Pounds per Square Inch	psi	Abbreviation
Centimeter	cm	Abbreviation
Celsius	C	Abbreviation
Meter	m	Abbreviation

AL61114,0000439-19-12MAR18

Preliminary Checks

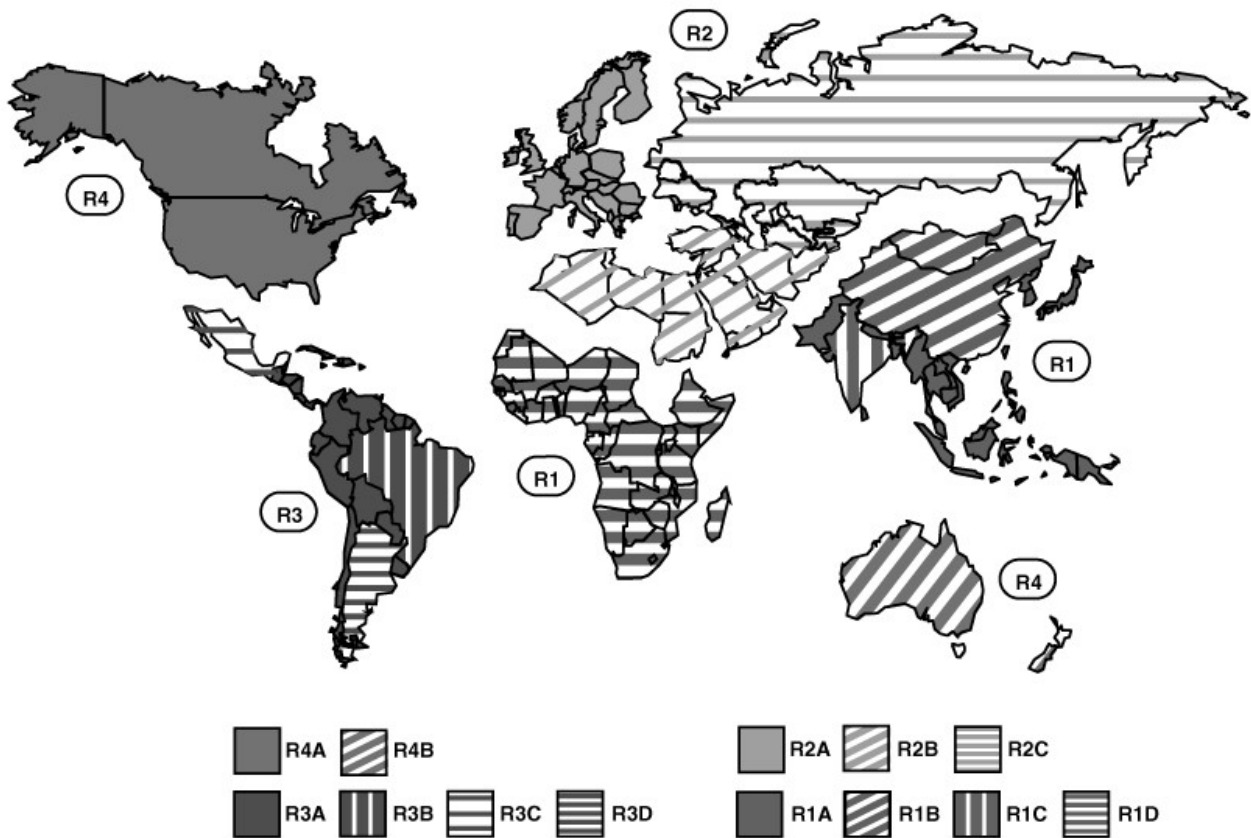
Use the following list as a reminder to inspect items

before operation. Detailed operation and service information is available in other sections.

Check and Inspect Equipment		OK / Not OK
After final assembly, adjustment, lubrication, and before machine use; conduct inspections.	Review manual and machine for safety signs.	
	Review manual for proper operation, adjustment, and service.	
	Review manual for regular lubrication points and intervals.	
	Review manual for lighting and devices available when transporting machine.	
	Review manual for attachment / connection process to tractor, baler and control devices (hitch, hydraulic, and electrical).	
	Review additional documentation (instructions, warranty, serial numbers).	
	Machine is assembled according to instructions (nuts and bolts tightened properly).	
	Equipment is lubricated, rotates or moves freely (without dragging or interference).	
	Paint all unpainted bolts and nuts or any parts scratched in shipment.	
	Properly connect machine to baler.	
During first season of operation; inspect proper operating conditions.	All grease fittings are installed.	
	Check entire machine for loose or missing hardware (replace or re-torque as necessary).	
	Check entire machine for broken, damaged, or missing parts (repair as necessary).	
	If possible; operate machine to check for proper functionality.	
	Review manual for proper safety, operation, lubrication, and service of machine.	
Daily inspect machine lubrication and operation.	Contact John Dealer for assistance (checks, inspections, operation, lubrication, service, or additional equipment).	
	Lubricate machine according to service intervals.	
	Check for loose or missing hardware or damaged parts.	
	Check machine connections to tractor and baler. (hitch, hydraulic, and electrical).	
	Check machine and tractor operating controls.	

CN80434,0000425-19-21OCT16

Regions and Country Versions



RXA0150915—UN—01FEB16

R1—Asia and Sub-Saharan Africa
R1A—Far East, Sri Lanka and Pakistan
R1B—China
R1C—India
R1D—Sub-Saharan Africa
R2—Europe, North Africa, Mid East, CIS
R2A—European Union (EU 28+)
R2B—North Africa and North Middle East (NANME)
R2C—Common Wealth of Independent States (CIS)

R3—Central and South America
R3A—Latin America (JDLA)
R3B—Brazil
R3C—Mexico
R3D—Argentina
R4—North America
R4A—USA and Canada
R4B—Oceania (Australia and New Zealand)

Regions 1, 2 and 3 equipment is traditionally manufactured with Economic Commission for Europe (ECE) features or systems.

Region 4 equipment is traditionally manufactured with Society of Automotive Engineers (SAE) features or systems.

Drive and signal lighting, traffic signs, safety signs, and braking features are some of the systems that differ between ECE and SAE. For example, Text-Free (pictorial only) safety signs are used for ECE while Text with Picture safety signs are used on SAE.

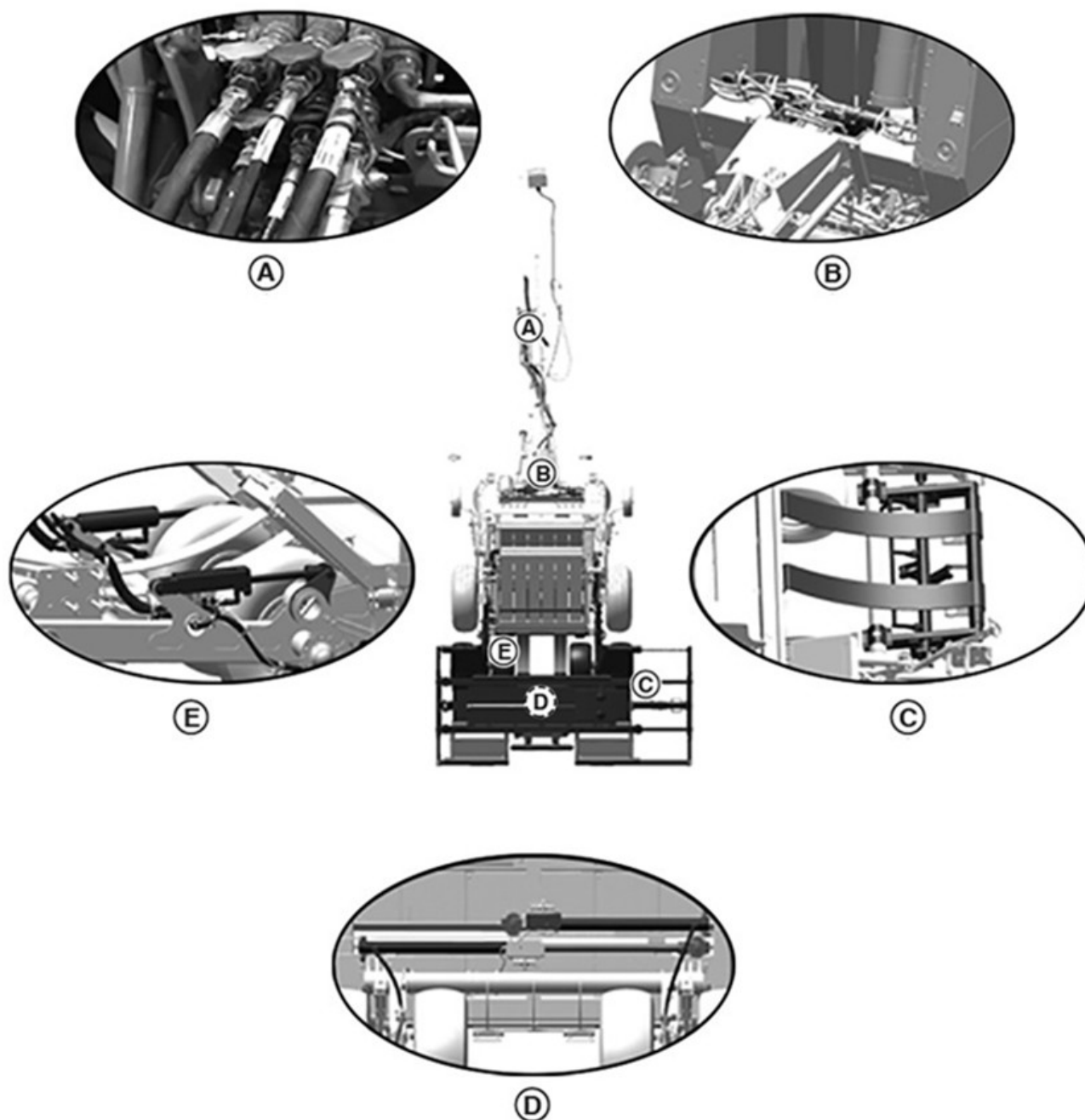
Use information above, if equipment information is identified by regions, countries, trade federations, industry standards, or governmental regulations.

NOTE: Australia and New Zealand (R4B) are available as either region 4 and/or region 2 configurations, only using text-free safety signs.

Machine Overview

IMPORTANT: 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 be available in other languages. See your John Deere dealer for specific language requirements and to place an order.

Review manual Controls and Transporting sections before operation.



A—Hydraulic Connections
B—Control Valves
C—Transfer Arm

D—Slider Cylinders
E—Dump Cylinders

Operating the Machine Introduction:

See relevant section in the operator manual for operating procedures.

- Controls
- Transporting
- Operating Round Bale Accumulator
- Specifications

Preliminary Overview

Inspect the machine before operation, use the following list as a reminder. Detailed operation and service information is available in this operator manual.

- Review manual and machine for safety information and safety signs.
- Review manual for proper operation, adjustment, and service.
- Review manual for control devices (hydraulic and electrical).
- Review manual for regular lubrication points and intervals.
- Check machine mechanical, hydraulic, and electrical connection points.
- Check for visual signs of leaks, damage, and failures.
- Perform machine daily maintenance.

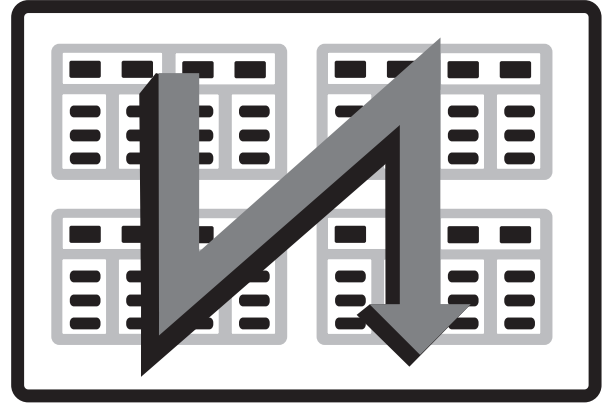
Using this Manual:

The information provided in this manual is divided into sections. The sections are organized with the typical machine features or functional systems together. These sections are identified at the top of each page. Specific information within each section is organized into modules. These modules are enclosed in boxes and the main modules are identified with a heading at the top left. Page numbers identify the section as well as the number of the page in the section.

By reviewing this manual frequently you learn which section to turn to for specific information. For example, the safety information is covered at the beginning, the operation of all features and systems is covered in the first half of the manual. Maintenance intervals are in the middle of the manual, the maintenance of all the features and systems is covered in the second half of the manual. The specifications are covered at the end.

A detailed table of contents appears before safety information and there is an alphabetical index at the very end of the manual.

The Operator's Manual content flows as sequential reading down one column of text and graphic then over to the top of the next column as shown.



W28329—UN—18OCT17
AL61114,00003F2-19-05NOV18

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

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Safety

Recognize Safety Information



T81389—UN—28JUN13

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.

DX,ALERT-19-29SEP98

Understand Signal Words



⚠ WARNING

⚠ CAUTION

TS187—19—30SEP88

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

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

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

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

DX,SIGNAL-19-05OCT16

Follow Safety Instructions



TS201—UN—15APR13

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

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

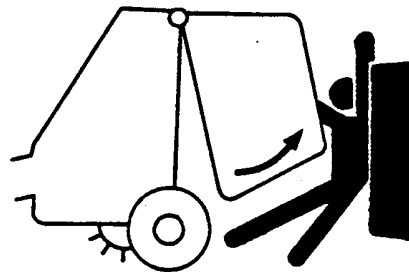
Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

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

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

DX,READ-19-16JUN09

Protect Bystanders

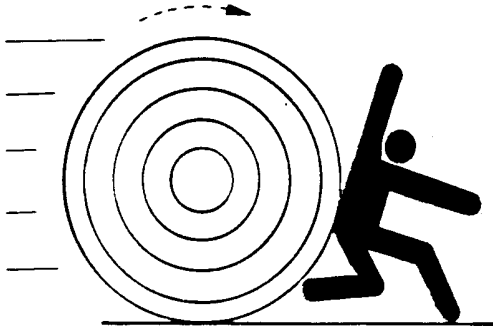


E32162—UN—12SEP88

To prevent crushing injury be sure bystanders stand clear before operating gate and unloading bale.

EX,435C,A-19-01SEP88

Operate Safely on Slopes



E36866—UN—30APR92

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

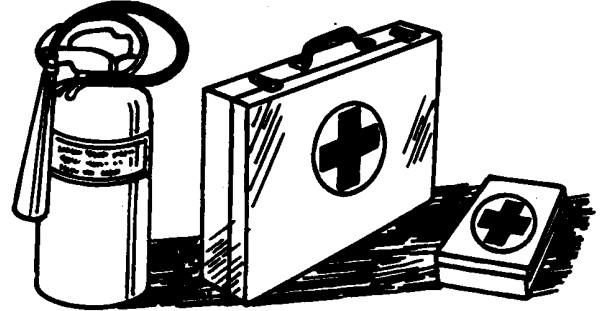
To prevent injury or damage from a rolling bale, discharge bales on level ground or in such a manner that the bale will not roll.

EX,435C,C-19-14JUL92

- Never use the tractor/loader to stop a rolling bale.

EX,435C,D-19-12JUN06

Prepare for Emergencies



TS291—UN—15APR13

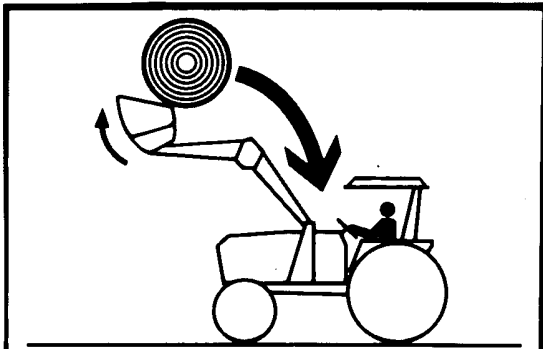
Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

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

DX,FIRE2-19-03MAR93

Handle Round Bales Safely



W00226—UN—04DEC91

To help prevent personal injury, do not handle round bales without approved John Deere Round Bale Handling attachments.

Improper use of loaders to handle round bales can result in serious injury or death to the tractor/loader operator. This could be caused by the bale rolling back down the loader into the operator's station.

To attain optimum stability and visibility:

- Do not handle bales that exceed the bale weight limitations of the loader.
- Carry the bale slowly and as low as possible to the ground.
- Operate the loader controls smoothly, avoiding jerky operation.
- When handling round bales on a slope, always approach the bale with the tractor facing uphill.

In Case of Fire



TS227—UN—15APR13

CAUTION: Avoid personal injury.

Stop machine immediately at the first sign of fire. Fire may be identified by the smell of smoke or sight of flames. Because fire grows and spreads rapidly, get off the machine immediately and move safely away from the fire. Do not return to the machine! The number one priority is safety.

Call the fire department. A portable fire extinguisher can put out a small fire or contain it until the fire department arrives; but portable extinguishers have limitations. Always put the safety of the operator and bystanders first. If attempting to extinguish a fire, keep your back to

the wind with an unobstructed escape path so you can move away quickly if the fire cannot be extinguished.

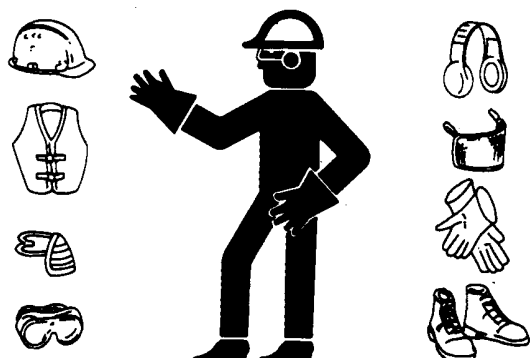
Read the fire extinguisher instructions and become familiar with their location, parts, and operation before a fire starts. Local fire departments or fire equipment distributors may offer fire extinguisher training and recommendations.

If your extinguisher does not have instructions, follow these general guidelines:

1. Pull the pin. Hold the extinguisher with the nozzle pointing away from you, and release the locking mechanism.
2. Aim low. Point the extinguisher at the base of the fire.
3. Squeeze the lever slowly and evenly.
4. Sweep the nozzle from side-to-side.

DX,FIRE4-19-22AUG13

Wear Protective Clothing



TS206—UN—15APR13

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.

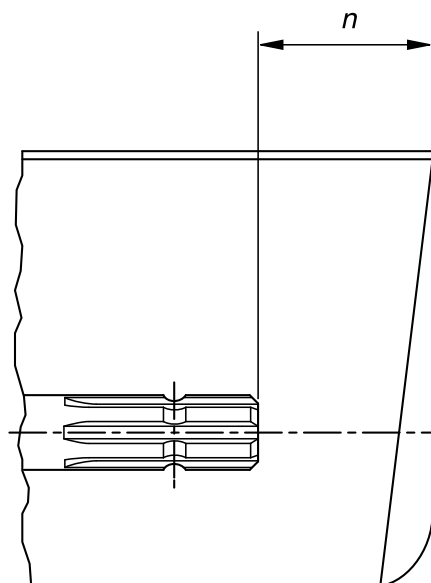
Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

DX,WEAR-19-10SEP90

Stay Clear of Rotating Drivelines



TS1644—UN—22AUG95



H96219—UN—29APR10

Entanglement in rotating driveline can cause serious injury or death.

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

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

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

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

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

The angle at which the primary implement PTO driveshaft can be inclined may be reduced depending on

the shape and size of the tractor master shield and the shape and size of the guard of the primary implement PTO driveshaft.

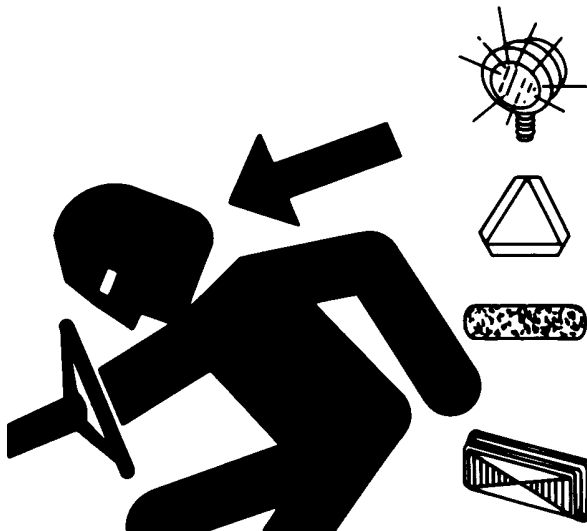
Do not raise implements high enough to damage the tractor master shield or guard of primary implement PTO driveshaft. Detach the PTO driveline shaft if it is necessary to increase implement height. (See Attaching/ Detaching PTO Driveline)

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

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

DX,PTO-19-28FEB17

Use Safety Lights and Devices



TS951—UN—12APR90

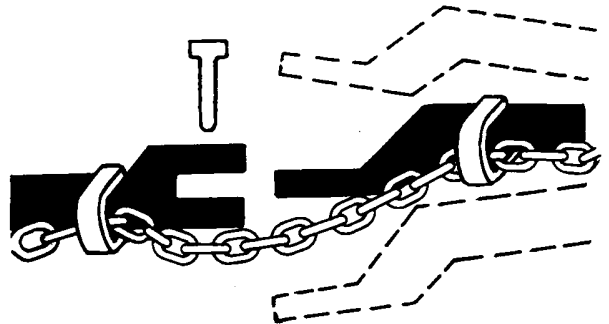
Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use turn signal lights.

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.

DX,FLASH-19-07JUL99

Use a Safety Chain



TS217—UN—23AUG88

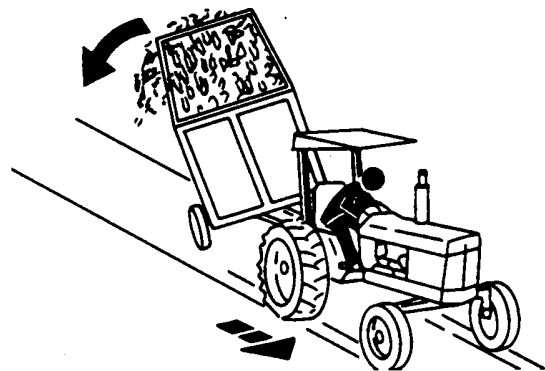
A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

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.

DX,CHAIN-19-03MAR93

Tow Loads Safely



TS216—UN—23AUG88

Stopping distance increases with speed and weight of towed loads, and on slopes. Towed loads with or without brakes that are too heavy for the tractor or are towed too fast can cause loss of control. Consider the total weight of the equipment and its load.

Observe these recommended maximum road speeds, or local speed limits which may be lower:

- If towed equipment does not have brakes, do not travel more than 32 km/h (20 mph) and do not tow loads more than 1.5 times the tractor weight.

- If towed equipment has brakes, do not travel more than 40 km/h (25 mph) and do not tow loads more than 4.5 times the tractor weight.

Ensure the load does not exceed the recommended weight ratio. Add ballast to recommended maximum for tractor, lighten the load, or get a heavier towing unit. The tractor must be heavy and powerful enough with adequate braking power for the towed load. Use additional caution when towing loads under adverse surface conditions, when turning, and on inclines.

DX,TOW-19-02OCT95

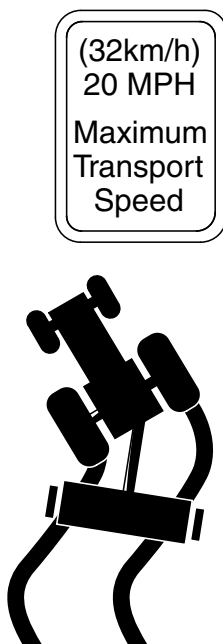
Do not attempt transport if the fully loaded implement weighs more than 1.5 t (3 300 lb) and more than 1.5 times the weight of the tractor.

Never tow this implement with a motor vehicle. Tow only with a properly ballasted tractor.

DX,TOW2-19-11APR07

Practice Safe Maintenance

Observe Maximum Transport Speed



A46805—19—16JUL10

The maximum transport speed for this implement is 32 km/h (20 mph).

Some tractors are capable of operating at speeds that exceed the maximum transport speed 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 ability to stop during braking
- 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.



TS218—UN—23AUG88

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

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

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

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

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

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

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

DX,SERV-19-28FEB17

Follow Safe Transport Procedures

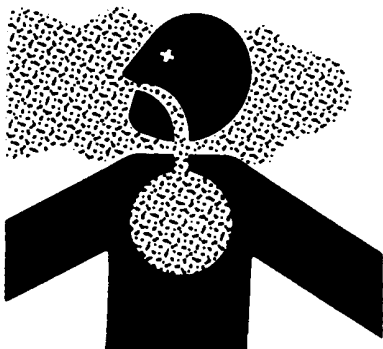
CAUTION: To help prevent severe injury or death to you or someone else, follow recommended transport procedures:

- Transport with bale chamber empty.
- Transport with bale accumulator empty.
- Raise pickup fully.
- Transport only with accumulator wings retracted.
- Transport Speed: Road speed maximum limit (unloaded) – 32 km/h (20 mph).
- Transport only with accumulator cart in fully raised position.
- Stop slowly.
- Avoid possible loss of control or tractor overturn. Tow only with correctly ballasted tractor.
- Check baler lighting, Reflectors, and SMV emblem.
- Tow only with correctly rated safety chain.

If necessary, add ballast as described in your tractor operator's manual. Add ballast to tractor as required to maintain stability.

CN80434,000047E-19-15MAY17

Remove Paint Before Welding or Heating



TS220—UN—15APR13

Avoid potentially toxic fumes and dust.

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

Remove paint before heating:

- Remove paint a minimum of 100 mm (4 in.) from area

to be affected by heating. If paint cannot be removed, wear an approved respirator before heating or welding.

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

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

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

Dispose of paint and solvent properly.

DX,PAINT-19-24JUL02

Avoid Heating Near Pressurized Fluid Lines

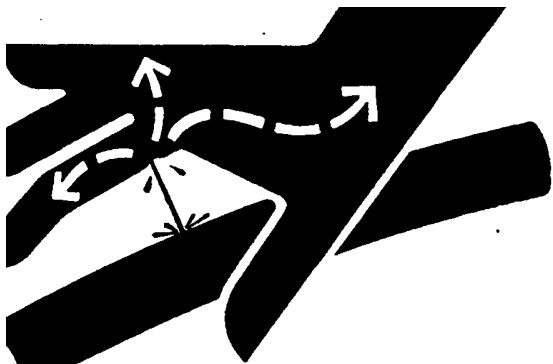


TS953—UN—15MAY90

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

DX,TORCH-19-10DEC04

Avoid High-Pressure Fluids



X9811—UN—23AUG88

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

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

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

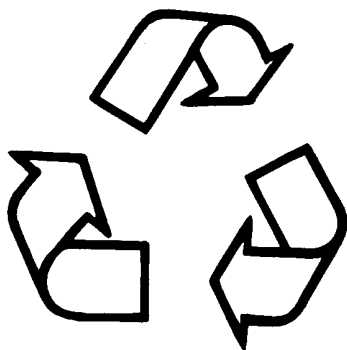
Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

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

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available in English from Deere & Company Medical Department in Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.

DX,FLUID-19-12OCT11

Decommissioning — Proper Recycling and Disposal of Fluids and Components



TS1133—UN—15APR13

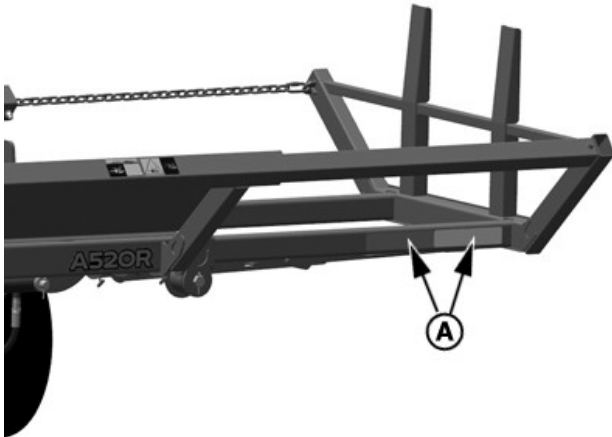
Safety and environmental stewardship measures must

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

- Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or glasses, during the removal or handling of objects and materials.
- Follow instructions for specialized components.
- Release stored energy by lowering suspended machine elements, relaxing springs, disconnecting the battery or other electrical power, and releasing pressure in hydraulic components, accumulators, and other similar systems.
- Minimize exposure to components which may have residue from agricultural chemicals, such as fertilizers and pesticides. Handle and dispose of these components appropriately.
- Carefully drain engines, fuel tanks, radiators, hydraulic cylinders, reservoirs, and lines before recycling components. Use leak-proof containers when draining fluids. Do not use food or beverage containers.
- Do not pour waste fluids onto the ground, down a drain, or into any water source.
- Observe all national, state, and local laws, regulations, or ordinances governing the handling or disposal of waste fluids (example: oil, fuel, coolant, brake fluid); filters; batteries; and, other substances or parts. Burning of flammable fluids or components in other than specially designed incinerators may be prohibited by law and could result in exposure to harmful fumes or ashes.
- Service and dispose of air conditioning systems appropriately. Government regulations may require a certified service center to recover and recycle air conditioning refrigerants which could damage the atmosphere if allowed to escape.
- Evaluate recycling options for tires, metal, plastic, glass, rubber, and electronic components which may be recyclable, in part or completely.
- Contact your local environmental or recycling center, or your John Deere dealer for information on the proper way to recycle or dispose of waste.

DX,DRAIN-19-01JUN15

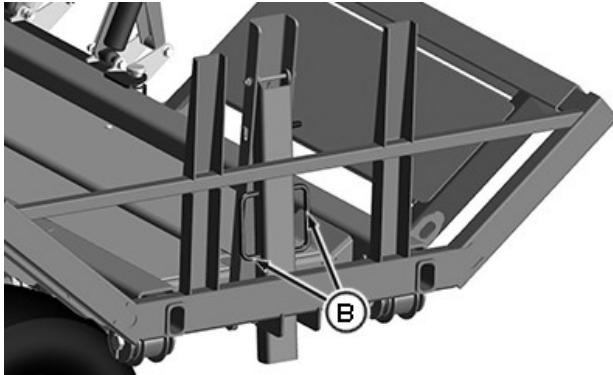
Round Bale Accumulator Safety Features



PY39557—UN—28MAR17

A—Reflector

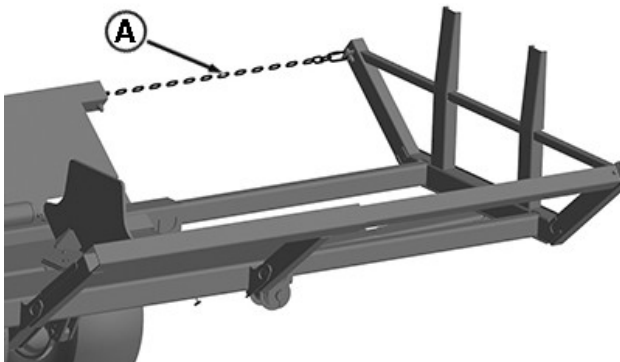
1. Reflectors (A) are on cart extensions.



PY30959—UN—23MAY17

B—Handle

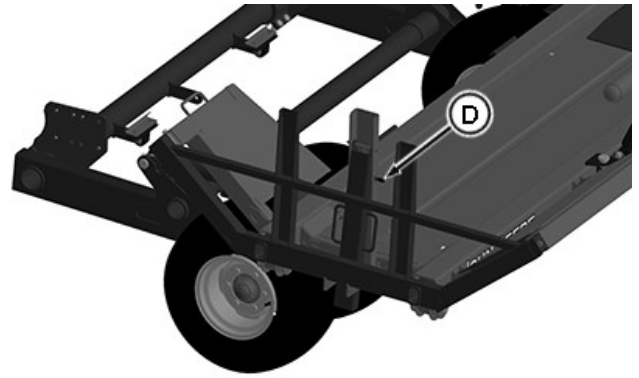
2. Wing locking linkage handles (B).



PY30960—UN—29OCT18

C—Chain

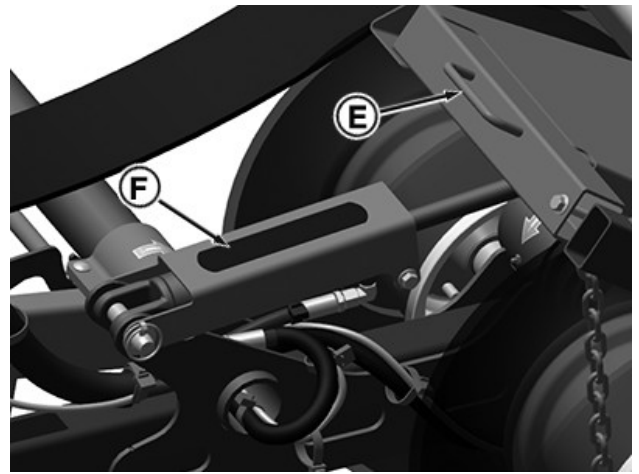
3. Wing chain (C).



PY30961—UN—15NOV16

D—Latch

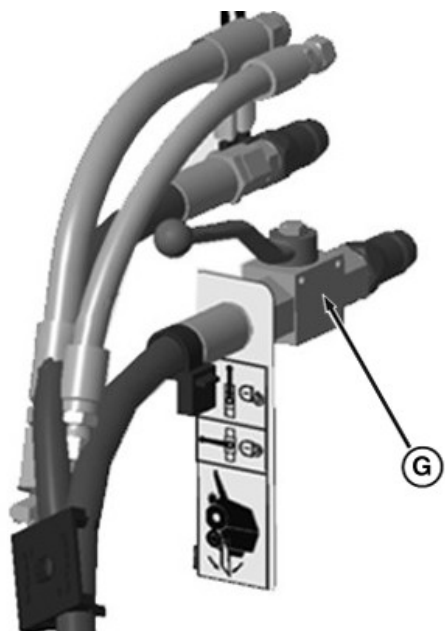
4. Cross member self-locking latch (D).
5. Left-hand side handle (E) for maintenance access.



PY45200—UN—22OCT18

E—Handle F—Tape

6. Anti-slipping tape (F) on left-hand side dump cylinder shield for safe access.



P18521—UN—10NOV18

G—Cart Lockout Valve

7. Cart lockout valve (G): Open/close valve for dump cart cylinders.

HL70592,0000B29-19-15AUG19

Safety Chain Routing

Routing safety chain through the baler tongue as shown.



PY40953—UN—18MAY17

Safety Chain Routing

RD91939,0000138-19-18MAY17

Safety Signs

Replace Safety Signs



TS201—UN—15APR13

Replace missing or damaged safety signs. Use this operator's manual for correct safety sign placement.

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

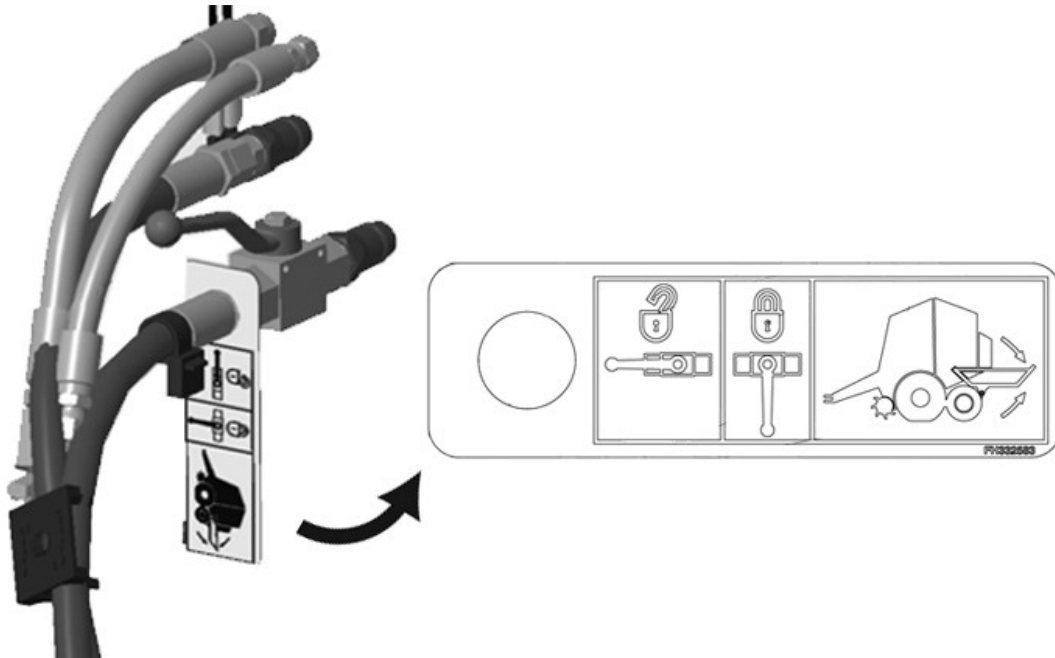
DX,SIGNS-19-18AUG09

Round Bale Accumulator Safety Sign



Warning Decal Bale Accumulator

PY39590—UN—25APR17



Cart Lock Valve Safety Tag

PY45201—UN—22OCT18

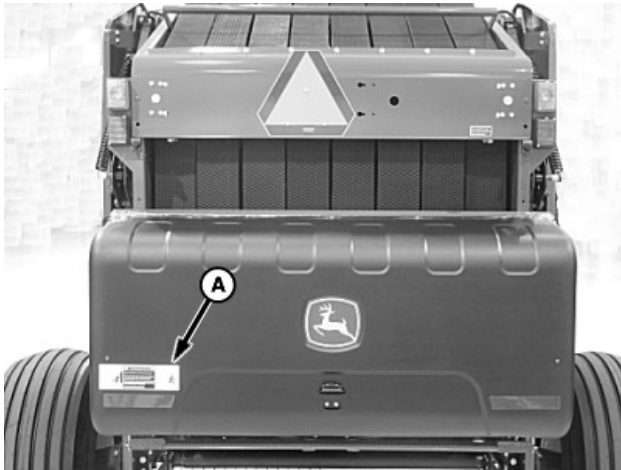
⚠ CAUTION: Tilting of cart can cause crushing or serious injury.

ENGAGE CART LOCK VALVE before working on or around accumulator.

STAND CLEAR before unlocking cart lock valve.

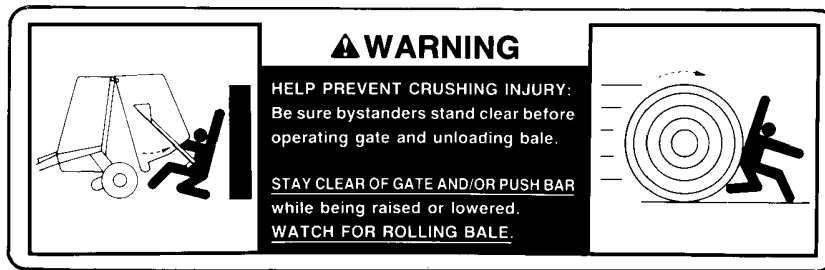
RD91939,00006DD-19-05NOV18

Rear of Baler Decal



E83527—UN—21JUN17

Rear of Baler



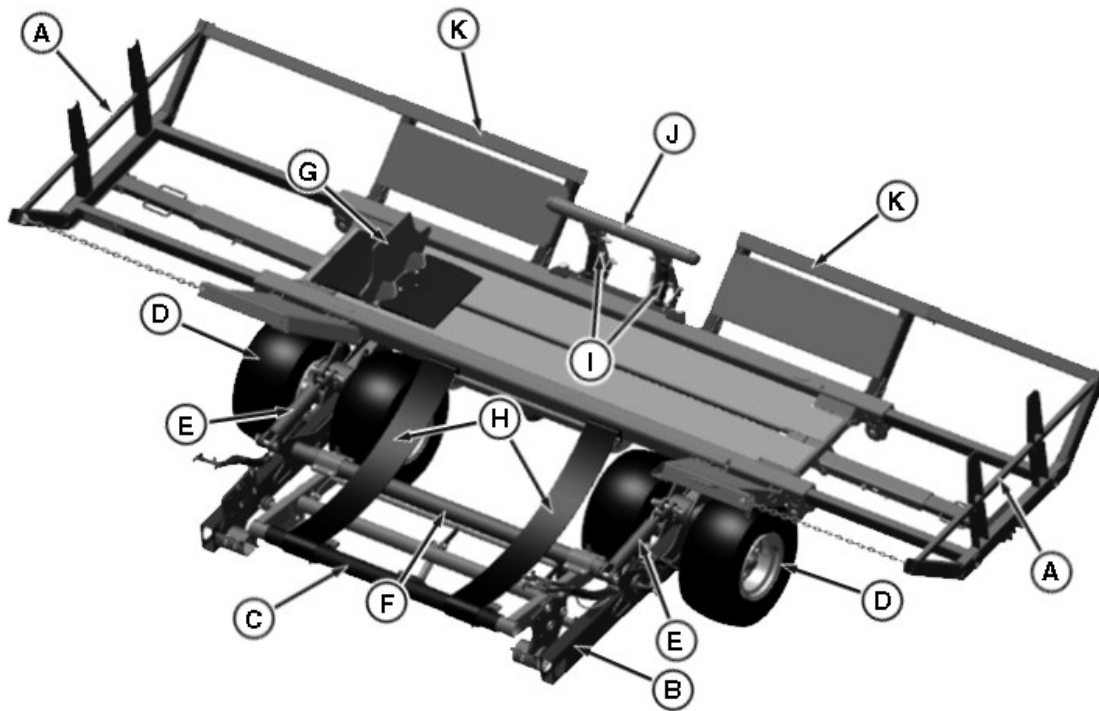
Decal A

E39576—19—14NOV95

RD91939,00006DE-19-23OCT18

Bale Accumulator Components

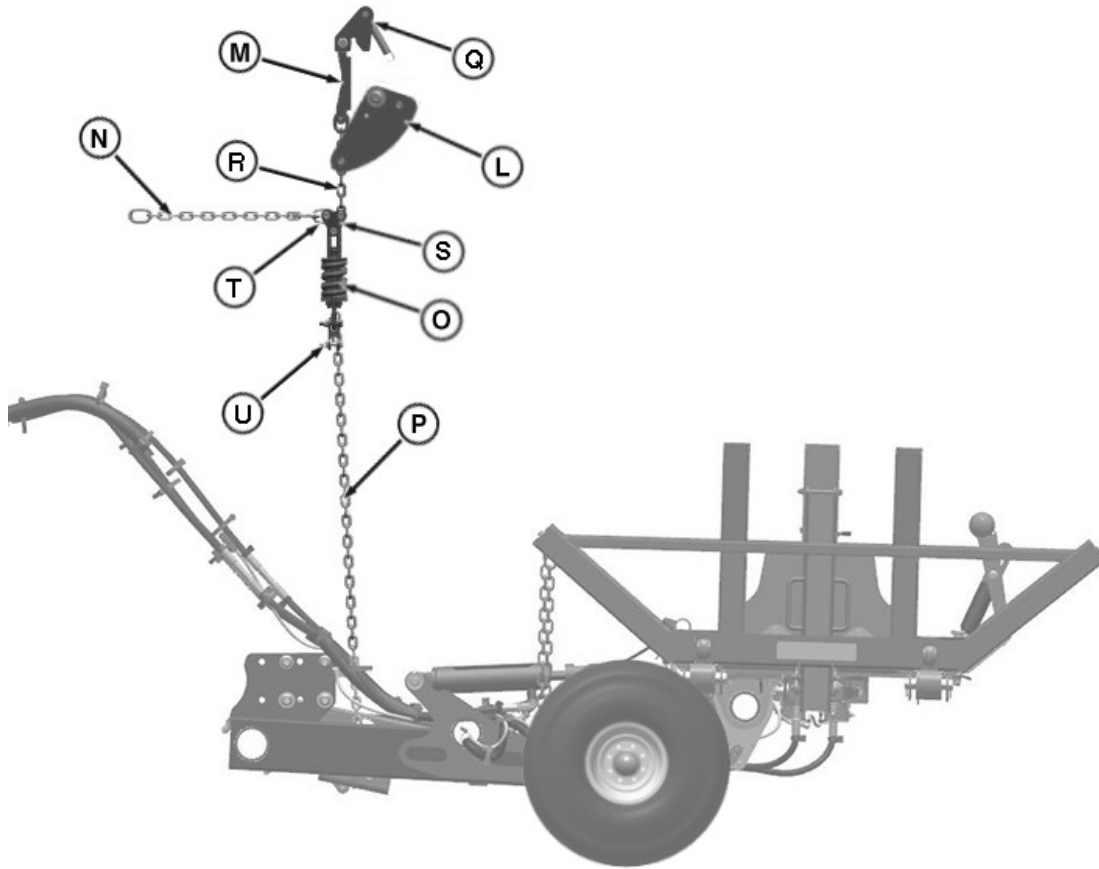
Component Identification and Location



A—Cart Wing
B—Main Frame
C—Transfer Arm
D—Tires
E—Cart Dump Cylinder
F—Bale Sensing Arm

G—Slider
H—Transfer Arm Belts
I—Damper Shock
J—Damper Arm and Access Gate
K—Cart Frame

PY39593—UN—30MAY17



PY40943—UN—13JUN17

L—Chain Idler
M—Chain Drop Link Extension
N—Gate Chain
O—Chain Compression Spring
P—Lower (Long) Transfer Arm Chain

Q—Upper Idler Tension Spring And Mount
R—Upper (Short) Ejection Chain
S—Chain Connection Junction Plates
T—Chain Swivel Clevis
U—Chain H-Link Connector

CN80434,0000437-19-13JUN17

Preparing Baler

Confirm Round Baler Meets Requirements

Verify that the round baler meets the following requirements before attaching the accumulator.

- 7, 8, 9, 0 Series
- 6' Diameter Bale Chamber (567, 468, 569, etc.)
- 21.5L x 16.1 Jumbo Tires
- MegaWide™ Plus or MegaWide™ HC² Feed System.

RD91939,00006EE-19-30OCT18

NOTE: If gate open time is less than 5 seconds, the transfer of the bale to accumulator may be compromised.

NOTE: When lowering the baler gate, avoid putting hydraulics into float position. SCV lever must return to neutral position.

RD91939,00006F1-19-30OCT18

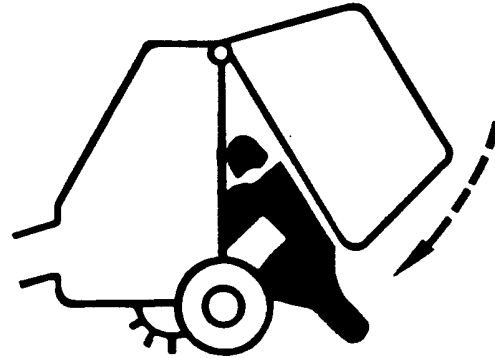
Confirm Customer Requirements

Ensure that the following items are taken into the account during the accumulator pre-delivery to the customer:

- Tractor drawbar height and baler hitch position
- Desired baling speed, which affects dump speed setting
- Desired bale size, which affects auxiliary takeup arm setting

RD91939,00006EF-19-30OCT18

Lock Baler Gate



TS698—UN—21SEP89

Prepare Round Baler

For baler preparation, refer to your round baler operator's manual. Pay close attention to "CAUTION" and "IMPORTANT" statements as they address your safety, the safety of others, and safe operation of the machine.

Verify using your round baler operator's manual, that the following items have been performed before starting operation:

- Adjust baler tongue height according to desired bale size. Refer baler hitch setting according to bale size section for the chart on what position to have tongue
- Set baler gate open and close speed.
- Check bale size sensor calibration.
- Check bale shape sensor calibration.

RD91939,00006F0-19-30OCT18



PY30972—UN—22NOV16

A—Gate Lock Lever

CAUTION: While working inside or around the baler with an open gate, the gate lock lever must be moved to locked position. Use this safety feature any time gate is open. Close gate any time the baler must be left unattended.

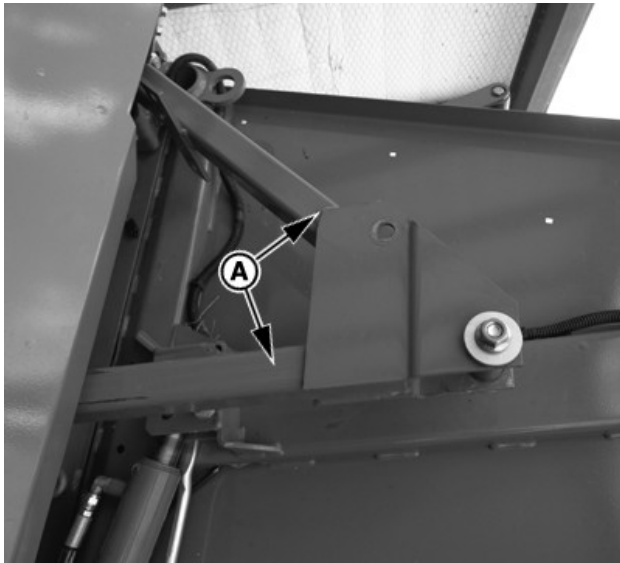
The gate lock valve locks each gate lift cylinder independently with gate in any position. If the hydraulic lift system failed on one side of machine, the gate would still be held open by the other side.

RD91939,00006F2-19-30OCT18

Set up Raise Time for Baler Gate

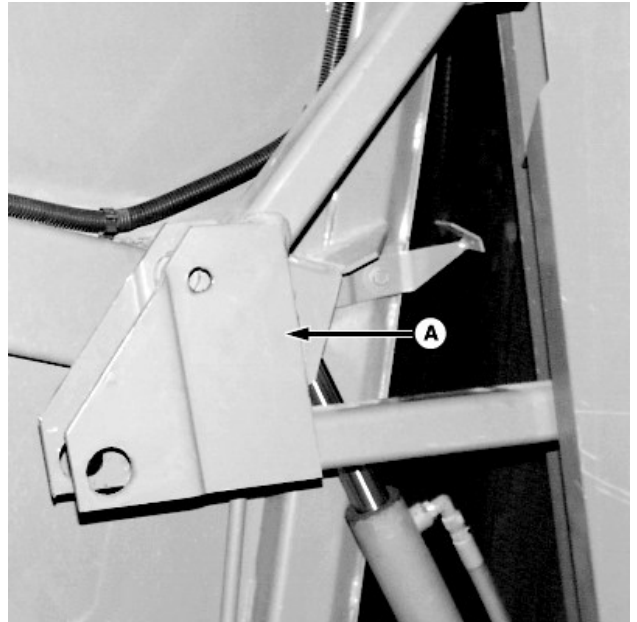
To ensure proper hydraulic function and to avoid possible damage to the baler, adjust tractor flow control valve to provide gate opening time of **5 seconds or longer**. See hydraulics and selective control valves in tractor operator's manual.

Baler A-Arms Required



PY39584—UN—20APR17

Left Hand Side A-Arm shown



E48831—UN—24AUG00

A—A-Arm

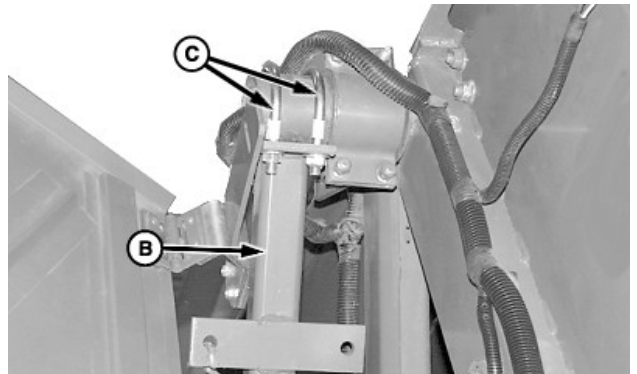
If the baler did not come with push bar legs and cross-tube, A-Arms (A), then order and install A-arms.

If your baler was ordered with the accumulator ready parts, install the A-Arms (A) using the following procedure:

Baler A-Arms Installation Procedure

CAUTION: Be sure that bystanders stand clear before operating gate. Stay clear of gate.

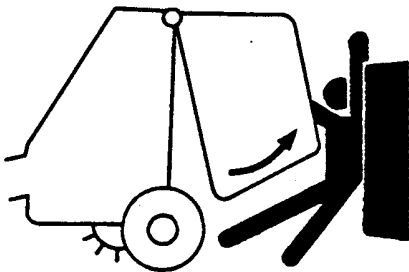
NOTE: Right-hand and left-hand sides are the same. Right-hand side shown throughout procedure unless noted otherwise.



E48820—UN—21AUG00

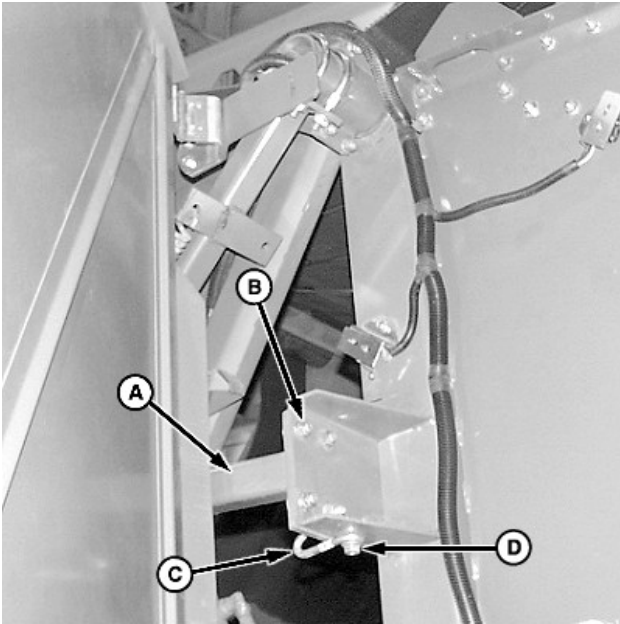
A—Plate
B—A-frame
C—U-Bolts (1/2" UNC2A) and Nuts (1/2")

3. Attach A-frame (B) to the top frame tube with two U-bolts and nuts (C).



E32162—UN—12SEP88

1. Open and lock gate.
2. Open left and right-hand side doors.



E48821—UN—21AUG00

- A—A-frame
B—Round-Head Bolts, M12 x 30 (4 used)
C—Chain Lock
D—Cap Screw and Flange Nut, M12 x 25

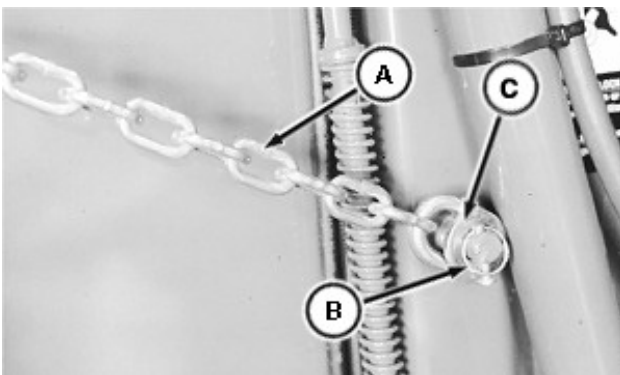
4. Fasten A-frame (A) to the channel with four M12 x 30 round-head bolts (B) and M12 flange nuts.
5. Repeat Steps 3—4 on the opposite side.

RD91939,00006F3-19-30OCT18

Remove Baler Push Bar Legs and Cross Tube (If Equipped)

CAUTION: Use proper tools and lifting equipment. Lifting heavy components incorrectly can cause severe injury or machine damage.

NOTE: Baler A-arms required. Do not remove the baler push bar assembly completely.



PY30979—UN—27JUN17

- A—Chain
B—Pin
C—Washer

1. Remove chain (A) from the gate pin (B) on each side of machine.

NOTE: Retain pin, washer and locking ring for reuse with accumulator ejection chains.



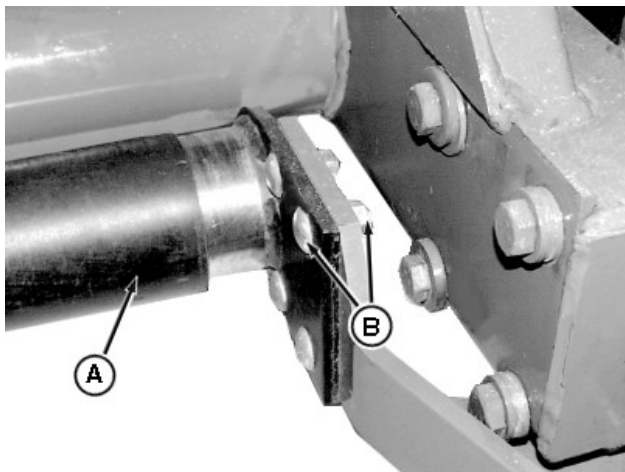
PY32259—UN—11APR17

- A—Cross-Tube
B—Push Bar Legs

2. Swing push bar rearward to resting steady state as shown.

NOTE: If push bar legs are not fully raised some stored energy is present and when cross-tube is removed push bar legs swing up or down until equalized depending on position.

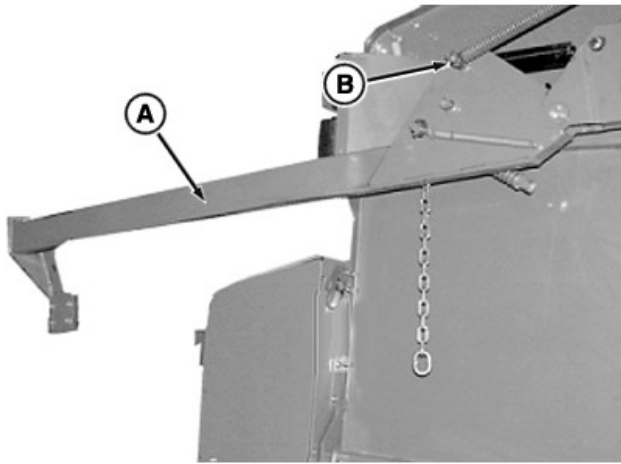
Support cross-tube (A) with strap and hoist or support jackstand. Removal of cross-tube (A), and push bar legs (B) from the baler is shown in following procedures.



PY30973—UN—22NOV16

- A—Cross-Tube
B—Round Head Bolt and Flange Nut

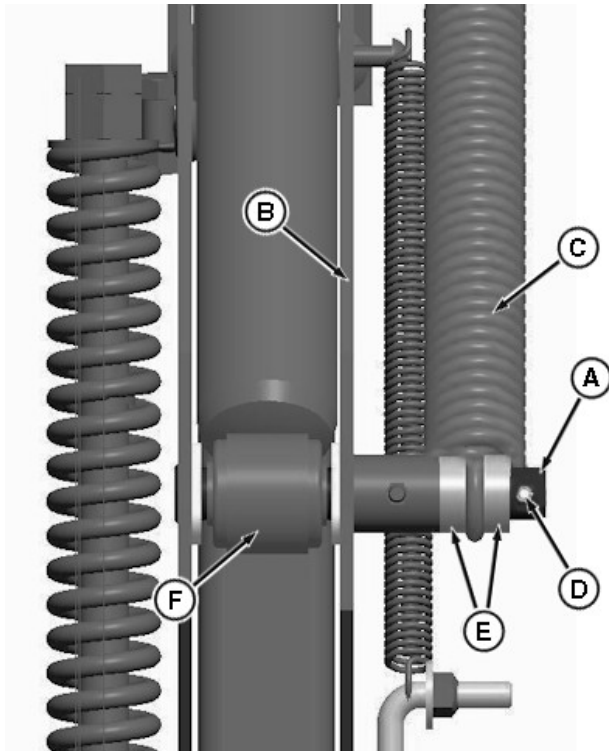
3. To remove the cross-tube (A) from the push bar leg, loosen eight round-head bolts, and flange nuts (B) as shown. Remove washer and pin (13/16 x 1-1/2 x 0.134 in). Repeat on the opposite side.



PY35121—UN—22NOV16

A—Push Bar Leg
B—Spring

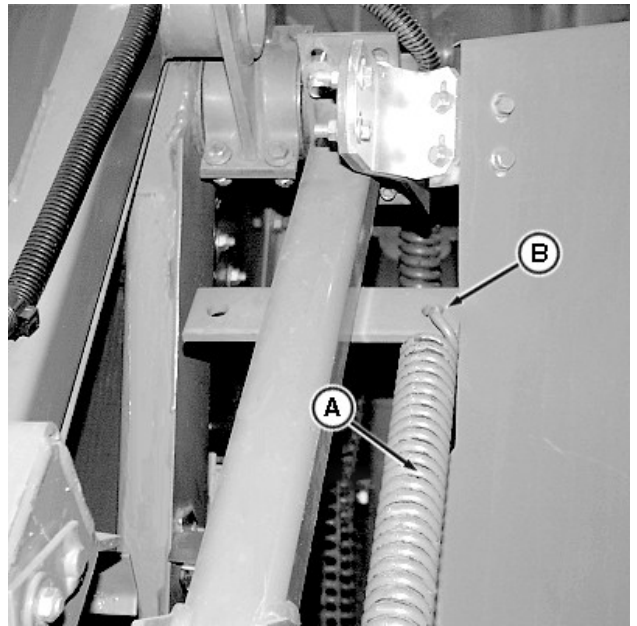
4. To remove push bar leg (A), raise the push bar leg high enough to retract the spring (B). Repeat on the opposite side.



PY30974—UN—22NOV16

A—Clevis Pin
B—Arm
C—Spring
D—Roll Pin
E—Washers
F—Shock Absorber

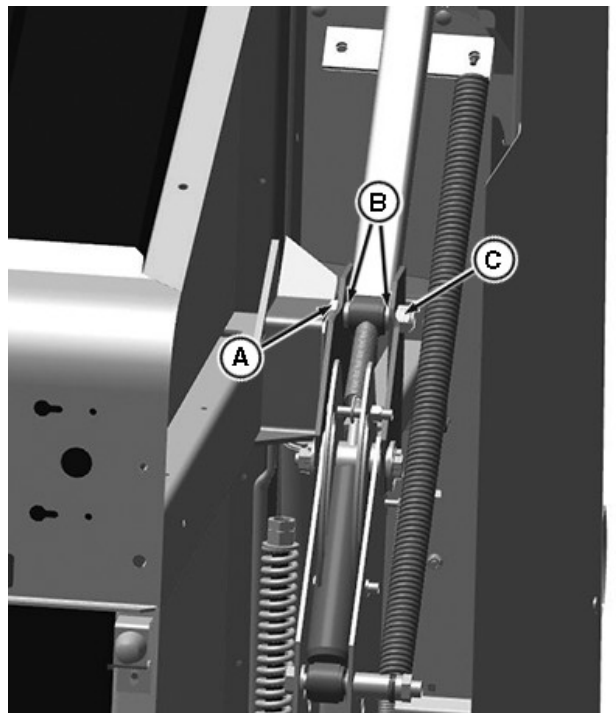
5. Remove roll pin (D), outer washers (E), spring (C), clevis pin (A) from arm (B).



PY30978—UN—23NOV16

A—Spring
B—Tab

6. Remove spring (A) from tab (B).
7. Repeat on the opposite side.
8. Lower the hoist or support and remove the strap.



PY30975—UN—23NOV16

A—Cap Screw
B—Washer
C—Lock Nut

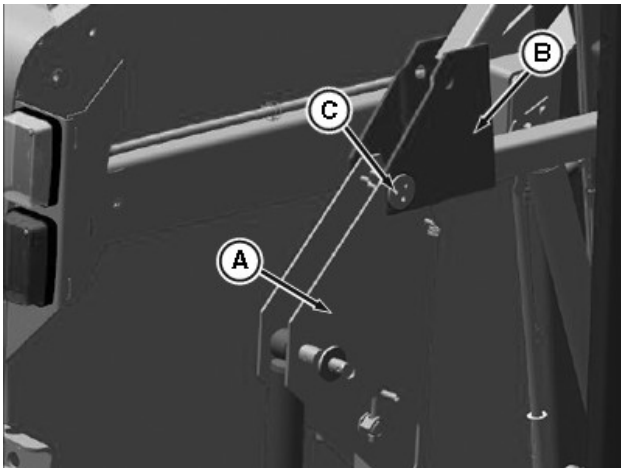
9. Remove cap screw (A) through A-arm and washers (B). Remove lock nut (C).

10. Remove shock absorber from A-arm and swing it back allowing to hang down.
11. Place floor jack under the push bar leg to support for removal as shown



PY40962—UN—31MAY17

Left Hand Side shown



APY08646—UN—29OCT18

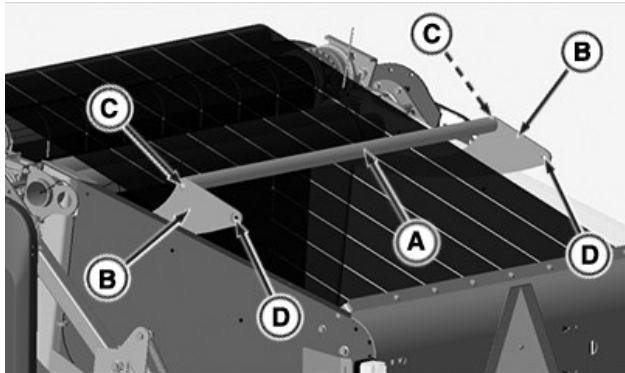
A—Arm
B—A-Arm
C—Bushing

12. Remove right-hand push bar leg (A). Remove push bar leg (A) from A-arm (B) by loosening six cap screws (M8 x 30), two bushings (C), and nylon lock nuts (M8).
13. Remove inner pivot bushing and then outer. When removing outer, steady push bar leg on jack
14. Remove push bar leg assembly.
15. Repeat the entire push bar leg assembly removal for the opposite side.

NOTE: Return removed components to customer if installing on customer baler.

RD91939,00006F4-19-30OCT18

Auxiliary Take-Up Roller Required



PY45014—UN—19SEP17

A—Auxiliary Take-up Roller
B—Auxiliary Take-up Arms
C—Hole position for bales less than 69" diameter
D—Hole position for bales 69" diameter and larger

Auxiliary take-up roller is included with the bale accumulator. In order for baler and accumulator to operate correctly, the auxiliary take-up arms provided with the accumulator must be used.

IMPORTANT: 7, 8, 9 and 0 series auxiliary take-up arms are not compatible with accumulator. Performance of machine will be compromised if supplied arms are not installed.

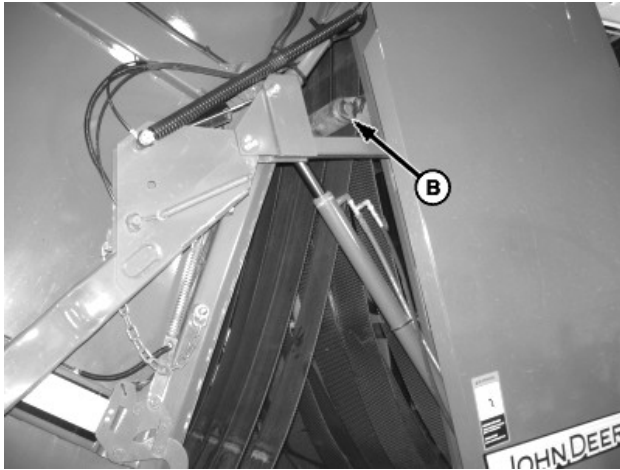
HL70592,0000B2F-19-15AUG19

Install Auxiliary Take-Up Roller

IMPORTANT: 7, 8, 9 and 0 series auxiliary take-up arms are not compatible with accumulator. Performance of machine will be compromised if supplied arms are not installed.



E55827—UN—13JUN08



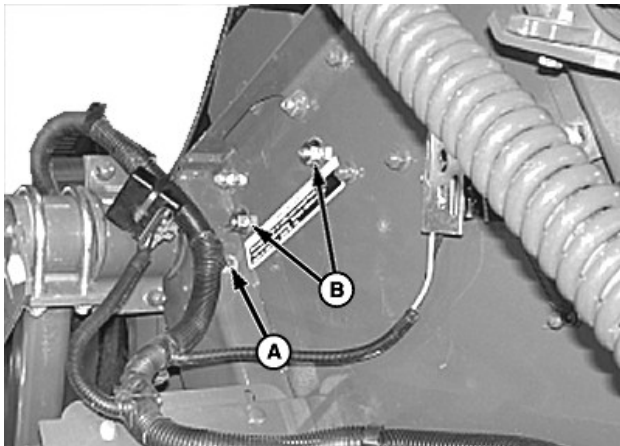
E55828—UN—13JUN08

A—Gate Lock
B—Tension Arm

1. Turn tractor key to ON and start tractor engine.
2. Open gate approximately 1/2 way. Shut off engine and remove ignition key.

IMPORTANT: Do not tension belts, it makes access to mounting bolts difficult.

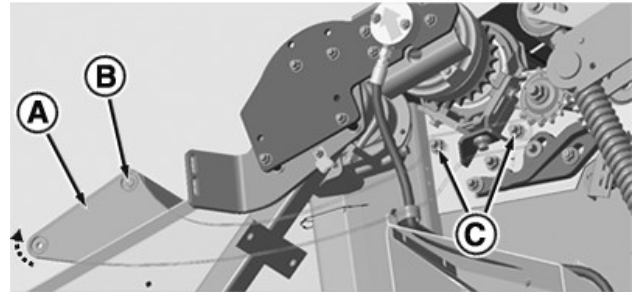
3. Place Gate lock in locked position (A).
4. Turn tractor key to ON position and start the engine.
5. Lower tension arm (B) approximately 12 in. Shut off the engine and remove ignition key.



E55829—UN—13JUN08

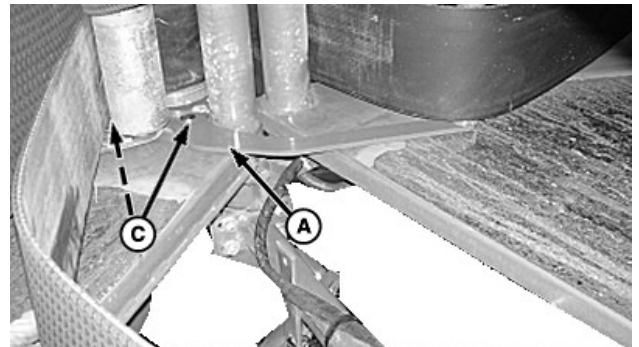
A—Bolt and Clamp
B—Round-Head Bolts and Nuts

6. Remove bolt (A) holding wire harness clamp. Move wire harness to allow access to rear nut on the roller bracket
7. Remove two round-head bolts and nuts (B). 0 series and newer machines can reuse the hardware.

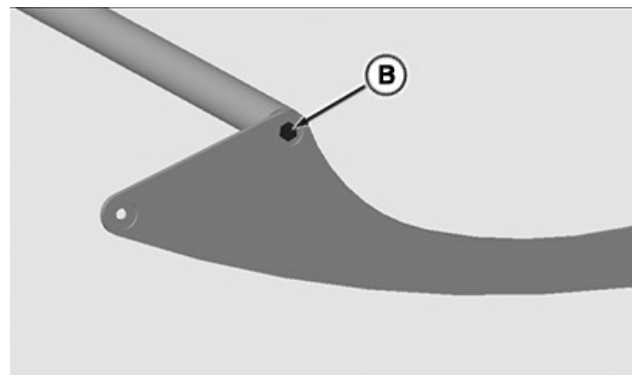


PY44027—UN—23OCT18

Bracket, Nuts, and Counter-Sink on Right Hand Side Shown



E55831—UN—13JUN08



PY45015—UN—19SEP17

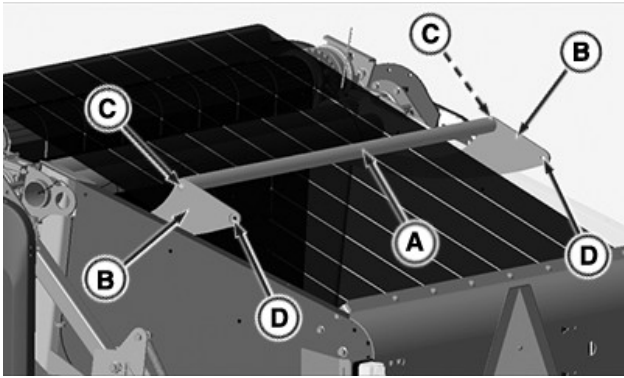
A—Roller Mounting Bracket
B—Countersink
C—Bolts and Nuts

8. Install right-hand bracket (A) to inside of the baler frame with offset down (under roll) and countersunk hole (B) toward outside.
9. Install two M12 x 35 round-head bolts and existing nuts (C).
10. **Lift up on the rear end of bracket and tighten nuts (C). Bracket is in position to install roller.**

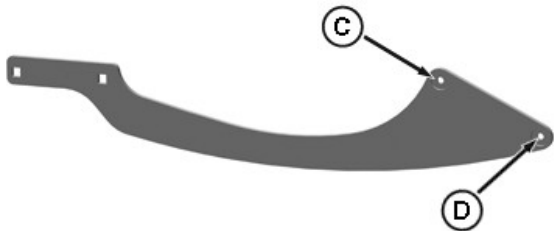
IMPORTANT: To limit or diminish belt indexing/movement check setting squareness to the top edge of the gate.

Arms should be adjusted within ± 5 mm (0.197 in) on both sides.

11. Repeat Steps 5—8 on the opposite side.



PY45014—UN—19SEP17



APY08647—UN—29OCT18

- A—Auxiliary take-up Roller**
B—Auxiliary take-up Arm
C—Hole position for bales less than 69" diameter
D—Hole position for bales 69" diameter and larger

12. Remove two M10 x 20 cap screws from end of roller (A).
13. Install roller (A) between brackets (B) in same set of holes. Fasten with existing cap screws. Hole location must be set up according to specification.

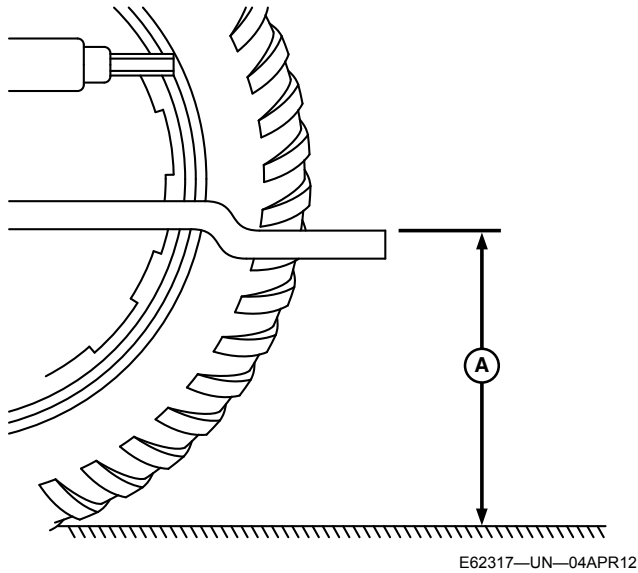
Specification

Auxiliary Takeup Arm

- Position**—Bale size less than 69" diameter. Front position (C)
Bale size greater than 69" diameter. Rear position (D)

HL70592,0000B30-19-15AUG19

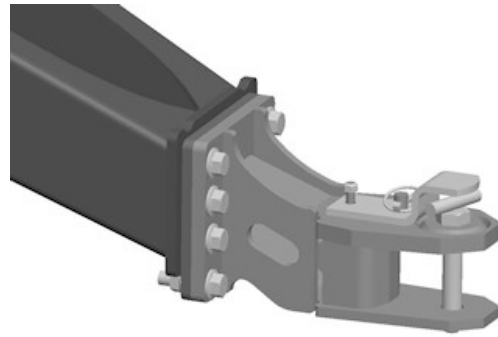
Adjust Baler Hitch



A—Dimension

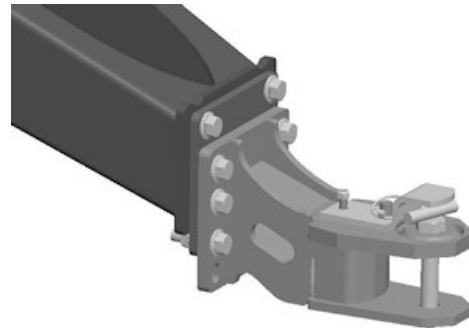
1. Measure from the top of the tractor drawbar to the ground. Measure on level ground.

NOTE: All baler hitches are factory installed in position 3.



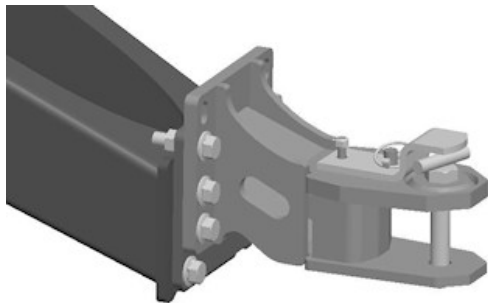
Position 3 (Factory Setting)

E60311—UN—13JUL11



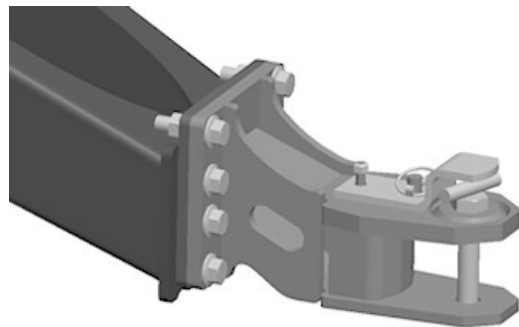
Position 4

E60312—UN—13JUL11



Position 1

E60309—UN—13JUL11



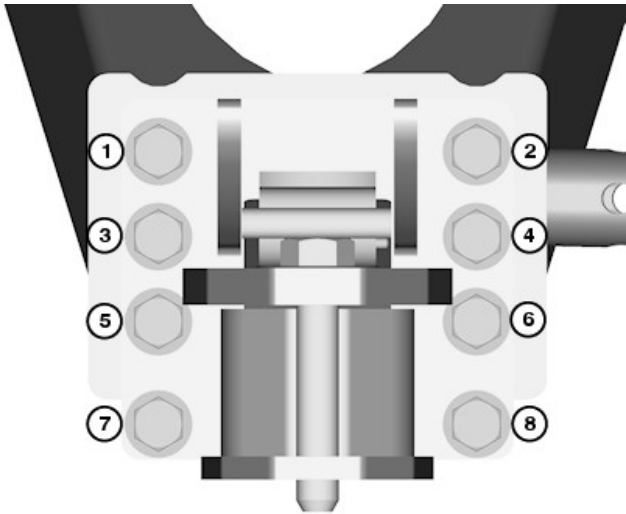
Position 2

E60310—UN—13JUL11

2. Adjust baler hitch according to the desired bale size.

NOTE: Factory baler-only recommended hitch settings for reference only. See following chart for hitch settings with accumulator.

MegaWide™ Plus Pickup	Drawbar Dimension (A)
Position 1	533—559 mm (21—22 in)
Position 2	483—508 mm (19—20 in)
Position 3	406—457 mm (16—18 in)
Position 4	330—381 mm (13—15 in)
MegaWide™ HC ² Feed System	Drawbar Dimension (A)
Position 1	Not Recommended
Position 2	533—559 mm (21—22 in)
Position 3	432—533 mm (17—21 in)
Position 4	330—432 mm (13—17 in)



E62321—UN—04APR12

- 3. Tighten hardware using sequence 1—8 as shown.
- 4. Tighten hardware to specification.

Specification

Adjustable Hitch	
Hardware—Torque.	350 N·m (258 lb·ft)

HL70592,0000B39-19-20AUG19

Adjust Baler Hitch according to Bale Size

Bale Size Vs. Hitch Setting Chart						
Drawbar Height	7 and 8 Series Bale Size		9 Series and Newer Bale Size		0 Series HC ² Feed System Bale Size	
	Up to 68 in	68-72 in	Up to 68 in	68-72 in	Up to 68 in	68-72 in
13-17 in	Yes ^a	Yes ^a	Position 3	Position 3	Position 4	Position 3
17-21 in	Yes ^a	NOT Recommended	Position 3	Position 2	Position 3	Position 2
21-22 in	NOT Recommended	NOT Recommended	Position 2	Position 1	Position 2	NOT Recommended

^a7 and 8 Series hitches are non-adjustable

NOTE: These settings are recommended and can vary depending on conditions.

Confirm that drawbar shield is with baler. If tongue is adjusted to position different from the factory setting, crop flow can be affected if the drawbar shield is not in place.

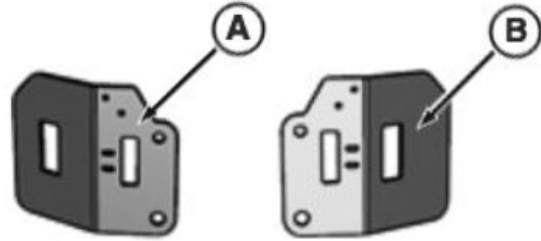
HL70592,0000B3A-19-15AUG19

Safety Chain Installation

Install safety chain provided in kit. Route safety chain through the baler tongue as shown.

IMPORTANT: Safety chain must have a strength rating equal to or greater than the gross weight of the towed machine.

IMPORTANT: Retain removed chain and store with baler for future use.



P18621—UN—14AUG19



Safety Chain Routing

PY40953—UN—18MAY17

HL70592,0000B3B-19-15AUG19



PY40929—UN—11MAY17



PY40930—UN—11MAY17

A—Right-hand Gate Latch Bracket
B—Left-hand Gate Latch Bracket

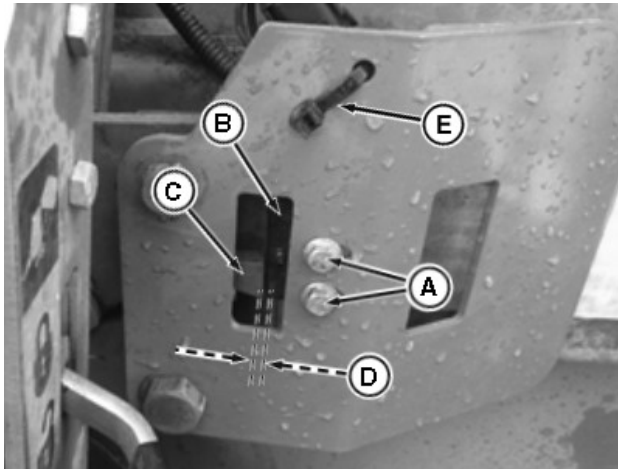
HL70592,0000B33-19-15AUG19

Install Gate Latch Brackets

Remove gate latch bracket and install new bracket with bend.

IMPORTANT: Not having these brackets could result in damage to gate latch sensors on baler.

Adjust Gate Latch Proximity Switches



PY40949—UN—29AUG17

- A—Bolts
- B—Proximity Switch
- C—Latch Bar
- D—Dimension, 3.0 mm (1/8 in)
- E—Zip tie (1 per side)

1. Close and latch gate.

NOTE: Ensure that gate cylinders are fully retracted.

2. Loosen bolts (A) and move the switch so it is parallel with mounting window edge and correct distance (D) from latch bar (C).
3. Ensure proximity switch (B) is even distance from top and bottom of latch bar (C). Set distance to specification.

Specification

Proximity Switch—Distance. 3.0 mm
(1/8 in)

4. Tighten Bolts (A) to specification. Switch mounting bushings are plastic.

Specification

Switch Mounting Bolts—Torque. 5 N·m
(44 lb·in)

5. Ensure zip tie (F) is installed.
6. Repeat on the opposite side.
7. To confirm switch operation, see your baler operator's manual

HL70592,00009E1-19-09NOV18

Preparing Bale Accumulator

Prepare Bale Accumulator

Verify that the following items have been performed before starting the Baler Accumulator Operation:

- ☐ Check hydraulic hoses and connections for oil leaks.
- ☐ Check slider cylinders and tilt cylinders are operating properly.
- ☐ Check electrical harnesses and connections.
- ☐ Accumulator belts are installed properly.
- ☐ Accumulator is being lubricated accordingly (See Lubrication and Maintenance section.)
- ☐ Chains have been adjusted and lubricated correctly.
- ☐ All hardware tight.
- ☐ Tire pressures checked(See Lubrication and Maintenance section.)
- ☐ Decals and reflective labels intact and legible.
- ☐ Check accumulator cart wings are fully extended and locked.
- ☐ Check operating functions of any optional equipment installed.

AL61114,00003C2-19-20FEB18

A—Latch
B—Linkage

3. Over center linkage (B) keeps the wing in extended position during operation.
4. Repeat same other side of the wing.

RD91939,00006BF-19-11SEP18

Tractor Convenience Outlet

Plug harness into the tractor convenience outlet. Confirm if power is on by checking if the override switch light is on. If light is not on check the connections on wiring harness.



PY40951—UN—18MAY17



E66075—UN—19JUN12

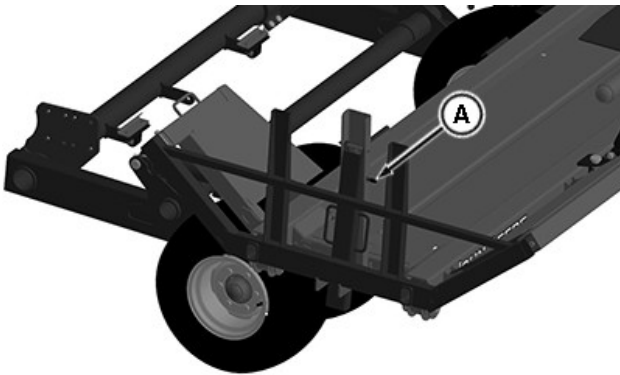
A—Convenience Outlet

Convenience outlet (A) is used to power BaleTrak™ Pro monitor-controller.

IMPORTANT: Tractor convenience outlet must be wired to keyed power. If convenience outlet is wired directly to the battery, harness must be disconnected from outlet after each use.

RD91939,00006C0-19-10SEP18

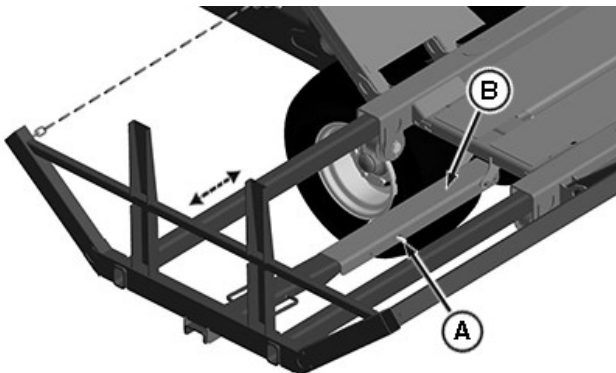
Extend Bale Accumulator Cart Wings



PY40960—UN—23MAY17

A—Latch

1. Press the self-locking latch (A) of linkage and extend the cart wing.
2. Pull out the wings fully.



PY30965—UN—15NOV16

Operating Bale Accumulator

How the Bale Accumulator Works

NOTE: Slider position alternates between left-hand and right-hand side, depending on position during previous cycle.



PY39594—UN—26APR17

A—Left-hand slider position (Bale in middle of cart)

1. After the baler has completed the tie or net wrap cycle, the operator opens the gate and the bale will fall onto the bale sensing bar, which depresses the bale sensing switch. This allows the gate valve to be powered so that the gate can open fully.

If the bale gets stuck in the chamber, it does not depress the bale sensing bar and the gate lock solenoid is energized. This stops the gate from opening fully and prevents the bale from getting lodged in front of the transfer arm.



APY00353—UN—12MAR18

A—Right-hand slider position (Bale on right-hand wing)

2. When the operator activates the tractor SCV to close gate, the slider pushes bale from center to the wing of the cart.

When slider reaches the end of its travel, bale is clear of gate and the slider switch is depressed, which alternates the direction of the slider for the next cycle. When the bale is slid to the side, the gate is able to close. This is accomplished by interrupting the power to the gate solenoid installed with the accumulator.

3. Once a bale is placed on the accumulator, it can be dropped to the ground by activating the cart dump SCV from tractor. This can be done while the machine is moving forward (**never backwards**) This machine is intended to drop bales on-the-go.

IMPORTANT: The gate must be opened fully each time in order for the slider to alternate properly.



APY00354—UN—12MAR18

A—Third Position of the Slider (When baler gate closed)

4. This procedure repeats to load the second bale on the cart. The slider always moves the opposite direction of the last move due to the alternating switch mounted near the baler gate pivot.

Every time gate reaches fully open the alternating switch is depressed, energizing or de-energizing the slider valve to change oil flow direction into the slider cylinder circuit.

CAUTION: Do not attempt to operate or transport with gate open and three bales on the accumulator.

When dropping three bales in the field, it is recommended to drive to the preferred location with the third bale in the chamber, then eject and drop all three

NOTE: The cart can be dumped with one, two or three bales on it, depending on operator preference, or a bale can be dumped straight through without sliding to the side. The cart can be dumped at any time on-the-go by activating the tractor SCV hooked to the dump cylinders.

5. If a third bale is transferred to the accumulator, the cart must be dumped before the gate can close.



PY30515—UN—03OCT16

6. Operate tractor SCV lever to drop the three bales on the ground. Once the bales are dropped on the ground the baler gate cycle is competed as normal by the operator. The cycle is ready to start again.

NOTE: Slider moves opposite side during this cycle.

IMPORTANT: Do not operate the baler in reverse when the accumulator cart is tipped back for dumping.

HL70592,0000B2C-19-20AUG19

Operating in Hilly Conditions

If operating the baler in hilly conditions the following guidelines help to optimize the performance of the bale accumulator:

NOTE: 4' wide bales are more prone to tipping in an extreme side hill condition, both during transfer to the cart and from the cart to the ground.

- Do not eject bales onto the cart when the baler is in an extreme nose-down position. Bales may not transfer properly to cart. Back baler perpendicular to slope and eject onto cart.
- Do not eject bales onto the cart if the baler and accumulator are in the bottom of a steep ditch. The narrow clearance can cause bale sliding difficulties.
- Use the ability to carry bales on the cart and dump on-the-go to place them in optimum field position to prevent rolling and aid retrieval.

AL61114,00003C6-19-20FEB18

Operating on Pivots

If operating the baler on pivot irrigated fields the

following guidelines help optimize the performance of the bale accumulator:

- Do not eject bales onto the cart if the accumulator wheels are down in deep pivot tracks. Pull the baler ahead or back out so the baler and accumulator wheels are on level ground relative to each other.
- Use the ability to carry bales on the cart and dump on-the-go to align bales in rows around the pivot, like spokes of a wheel. This reduces travel of the retrieval equipment across pivot tracks and promote regrowth.

AL61114,00003C7-19-20FEB18

Operating in Irregular Shape Fields

When operating the baler in irregular or small fields, or if there are many obstructions in the field, follow these guidelines to get the most out of the bale accumulator:

- Carry two bales and dump on-the-go at an optimum loading location in the field.
- Use the ability to dump 3 bales in a line to reduce stops of the retrieval equipment and prevent it from going through difficult parts of the field.

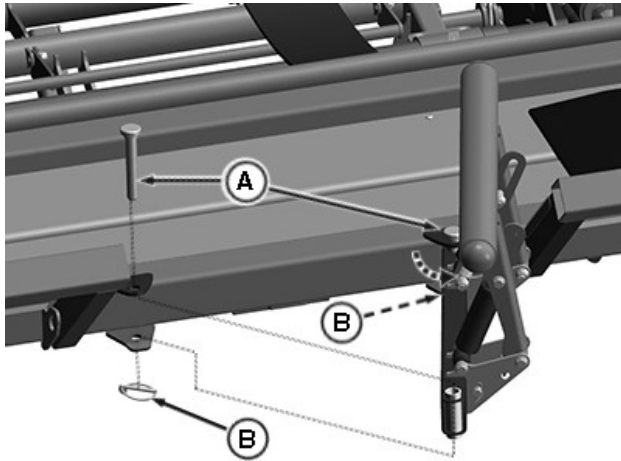
AL61114,00003C8-19-20FEB18

Handling Round Bales

See the loader and/or tractor Operator's Manual on proper procedures for lifting and handling round bales.

AL61114,00003C9-19-20FEB18

Replacing Net Wrap



PY40946—UN—17MAY17

A—Pin
B—Quick Lock Pin

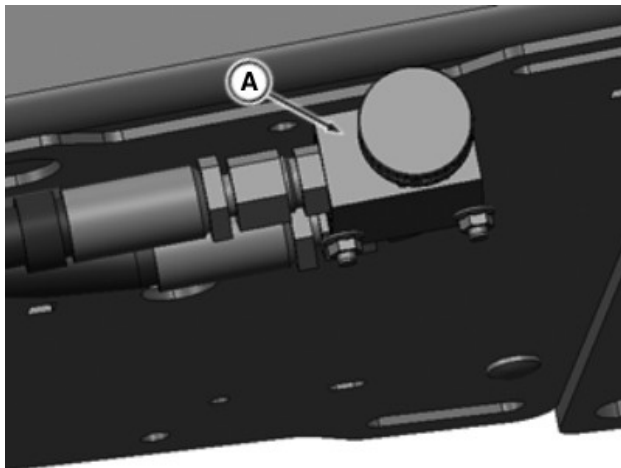
1. Remove quick lock pin (B) along with pin (A) as shown to get access to the rear of baler.
2. Replace net wrap following your baler operator's manual.
3. Reinstall pin (A) and secure with the quick lock pin (B) after closing the damper arm.

IMPORTANT: Failure to close damper arm and replace pin can result in significant machine damage.

HL70592,0000B42-19-16AUG19

Adjust Bale Dump Speed

Inform the customer that the dump speed of the cart is controlled by adjusting the bale dump speed valve mounted beneath the tongue at the front of the baler.



PY40944—UN—16JUN17

A—Dump Speed Valve

- To increase the dump speed the cart, turn the knob counterclockwise.
- To decrease the dump speed of the cart, turn the knob clockwise.

NOTE: Bale dump speed must be set according to desired travel speed of tractor and baler to minimize movement of the bale when dumped. Refer to chart for approximate settings.

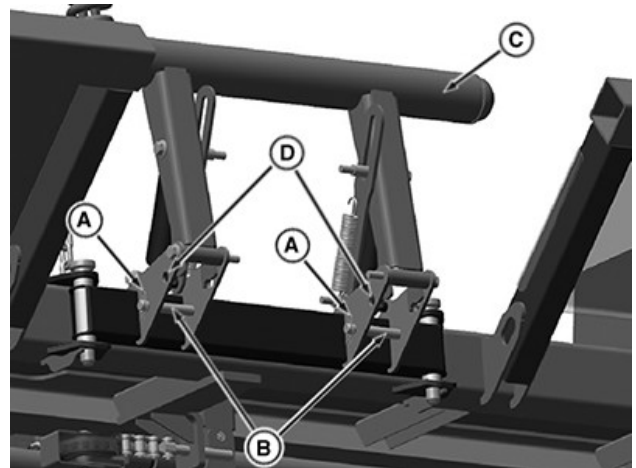
NOTE: Use this chart as a reference, actual valve settings can vary. The bale must not roll forward or rearward when dropped to the ground while tractor and baler are moving forward.

Ground Speed (mph)	Valve Setting (Turns Out)
3	1.0
4	1.5
5	2.0
6	2.5
7	3.0
8	3.0

RD91939,00006C4-19-13SEP18

Adjust Bale Damper Arm for Lighter Bales

When making lighter full size 60"-72" diameter bales, the damper arm should be adjusted so the bale can successfully be transferred to the cart.



APY00323—UN—23FEB18

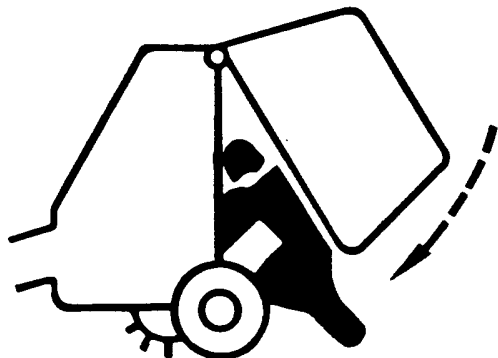
A—Retaining Clip
B—Pin
C—Damper Arm
D—Light Bale Configuration Holes

1. Remove retaining clips (A) from the pin in the storage location hole.
2. Remove pins (B) from storage location.
3. Pull damper arm (C) rearward and insert pins (B) into the light bale configuration holes (D).

4. Reinstall retaining clip (A) to pin (B).

RD91939,00006DF-19-23OCT18

Transfer Area Access

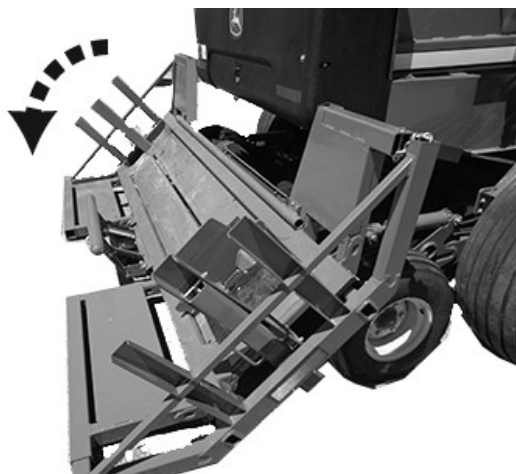


TS698—UN—21SEP89

CAUTION: To avoid injury or death caused by unexpected movement:

- Move the tractor and baler to level ground.
- Stop the tractor and remove key.

CAUTION: To avoid injury or death caused by unexpected movement lowering the gate, engage gate lock before working on, around or under the gate in raised position.

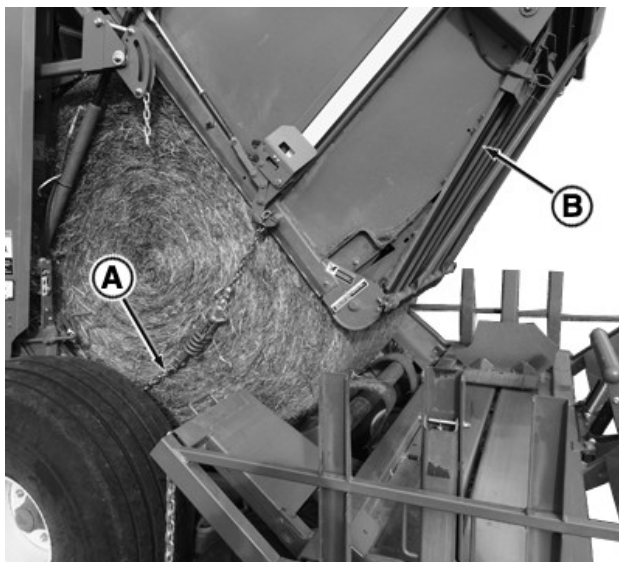


PY40955—UN—25OCT18

To access the transfer area for service or cleanout, tilt the cart into the dumped position as shown.

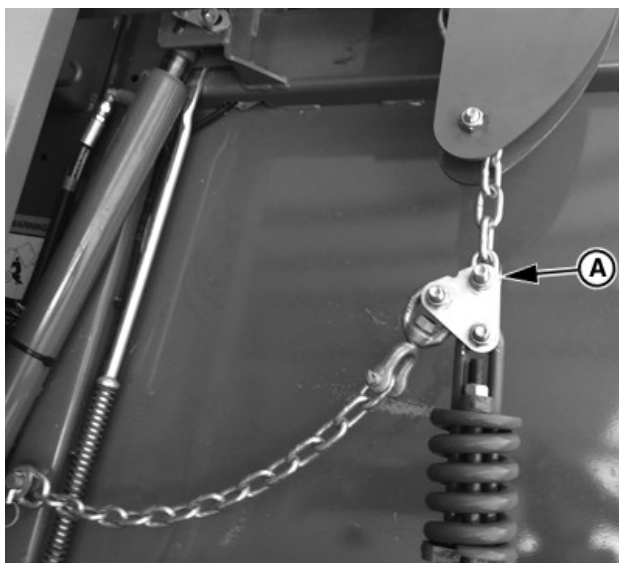
AL61114,00003CD-19-22FEB18

Removing a Bale Behind the Transfer Arm



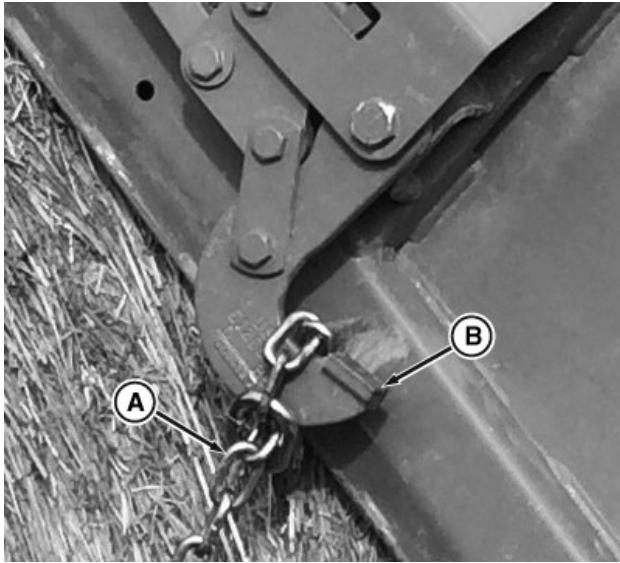
APY00329—UN—25OCT18

1. Lower baler gate (B) onto a bale to relieve tension on the transfer arm chains (A).



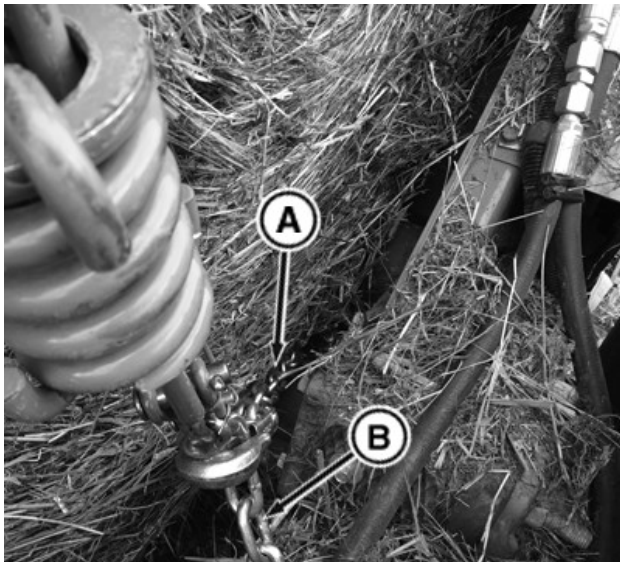
APY00330—UN—23FEB18

2. Disconnect link plate (A) from the a-arm chain.



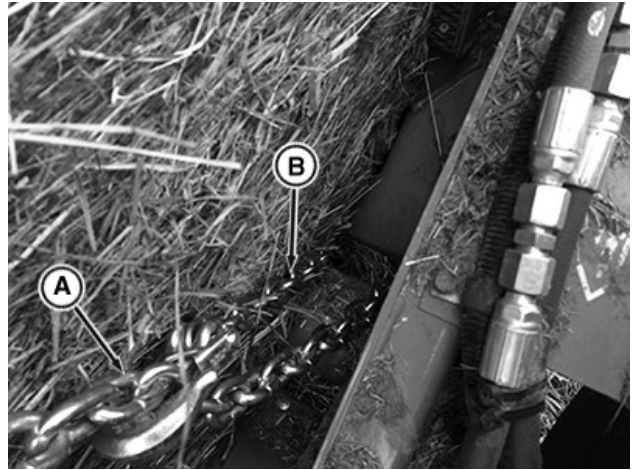
APY00331—UN—23FEB18

3. Disconnect chains (A) from the baler gate and wrap around the gate latch hooks (B) as shown.
4. Disconnect lower transfer arm chain from the transfer arm pin.



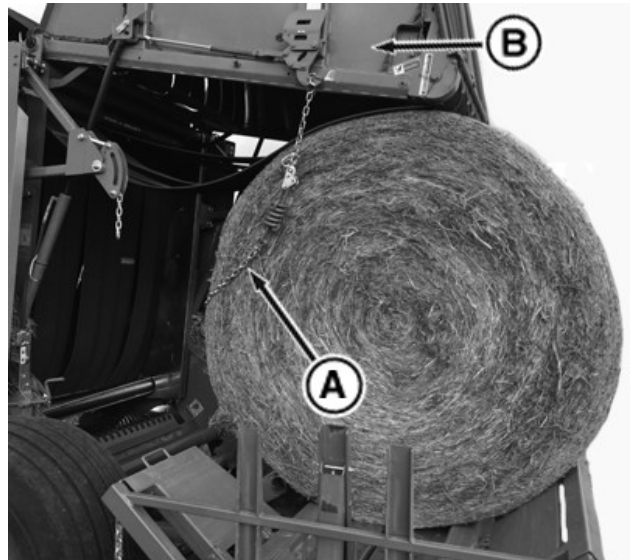
APY00332—UN—23FEB18

5. Using a 2700 lb minimum working load capacity chain (A), thread through a loop on end of the left-hand transfer arm chain (B).
6. Run chain across the front end of bale by passing it down between frame and pickup and back up other side.



APY00333—UN—23FEB18

7. Fasten chain (B) as tight as possible to loop on end of the right-hand transfer arm chain (A).



APY00334—UN—23FEB18

8. Open gate (B) slowly to pull bale up and over the transfer arm onto cart.
9. Reattach transfer arm chains (A) in reverse order.

⚠ CAUTION: Always follow all safety procedures posted on the machine and included in this manual.

AL61114,00003CE-19-26FEB18

Transporting

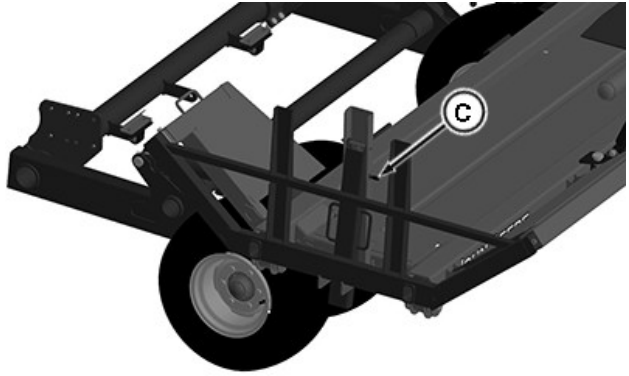
Follow Safe Transport Procedures

CAUTION: Follow recommended transport procedures for safety of operator and bystanders. Non adherence causes severe injuries or even death.

- Transport with bale chamber empty.
- Transport with the bale accumulator empty.
- Raise pickup fully.
- Transport only with accumulator wings retracted.
- **Transport Speed:** Road speed maximum limit (unloaded) – 32 km/h (20 mph).
- Transport only with accumulator cart in fully raised position.
- **Stop slowly.**
- **Avoid possible loss of control or tractor overturn. Tow only with correctly ballasted tractor.**
- **Check baler lighting, Reflectors, and SMV emblem.**
- **Tow only with correctly rated safety chain.**

If necessary, add ballast as described in your tractor operator's manual. Add ballast to tractor as required to maintain stability.

AL61114,00003CF-19-12MAR18



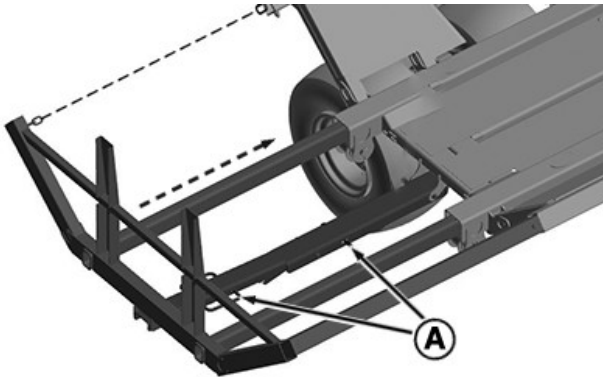
PY30964—UN—16MAY17

C—Latch

2. Check self-locking latch (C) is locked to linkage for transporting mode.
3. Ensure cart is fully tilted forward and damper arm is locked in closed position.

RD91939,00006C5-19-26OCT18

Retract the Wing



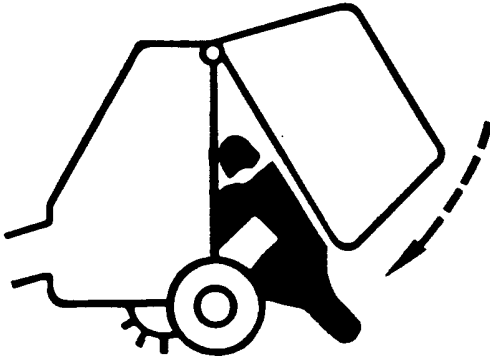
PY45202—UN—25OCT18

A—Linkage

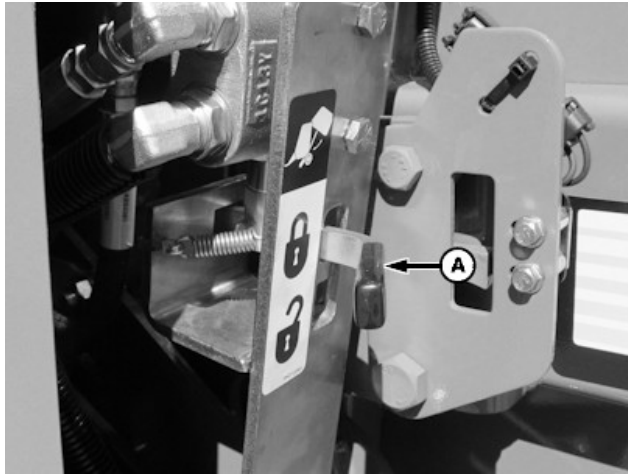
1. Lift handle on over-center linkage (A) to retract the cart wing. Push the wing towards inside the cart until fully retracted. Repeat on the opposite side.

Service

Practice Safe Service Procedures



TS698—UN—21SEP89



E69961—UN—17MAY13

A—Locked Position

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

If machine is connected to a tractor, engage tractor park brake and place transmission in Park, shut off engine and remove key.

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

Engage gate lock lever when working inside or around the baler with an open gate. Failure to do so can result in serious personal injury or death.

Before servicing or adjusting baler:

1. Disengage all power.
2. Shut off tractor engine.
3. Wait until all moving parts have stopped.
4. Let all components cool.

IMPORTANT: Disconnect monitor-controller wire harnesses from baler when servicing electrical systems or when welding on baler. Over-voltage can damage the electronic controls.

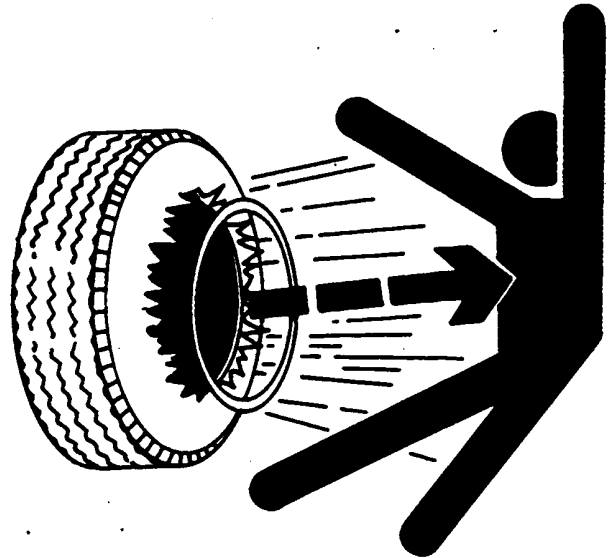
While working inside or around the baler with an open gate, the gate lock lever must be moved to locked position (A). Use this safety feature any time gate is open. Close gate anytime the baler must be left unattended.

If bale push bar is installed, be sure that bystanders are clear and there is sufficient clearance behind baler when opening gate for service.

If gate is partially raised, push bar can remain in the home position held only by slight spring force. If arms are pushed backwards, they spring upward slowly under spring force. When servicing machine with gate open, raise gate fully and lock the gate, or lock out push bar.

AL61114,00003D1-19-20FEB18

Service Tires Safely



TS211—UN—15APR13

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

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

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.

Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire

explosion. Welding can structurally weaken or deform the wheel.

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

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

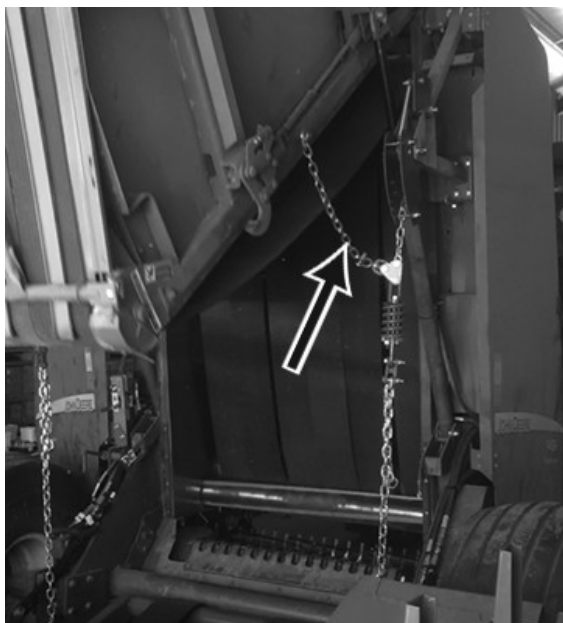
DX,RIM1-19-27OCT08

Adjust Gate Position Switch

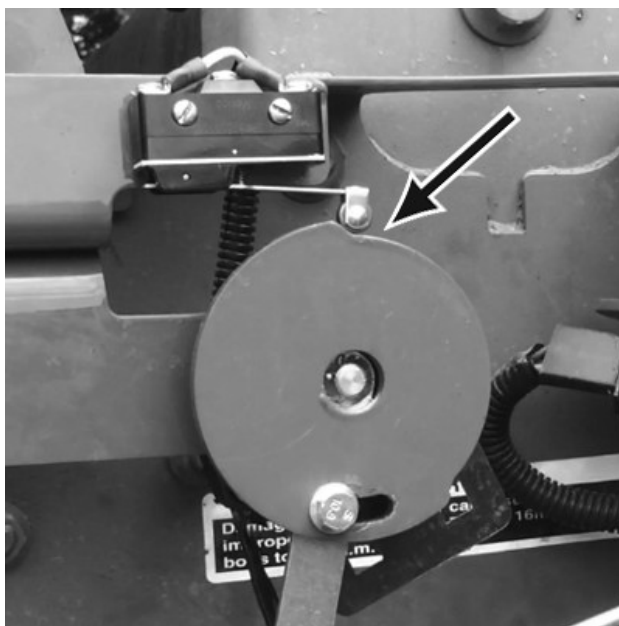
Rotation Adjustment: Inside the switch wheel plate, follow the procedure below.

IMPORTANT: Before operating gate, confirm all hydraulics have been tightened.

IMPORTANT: Set proper tongue height before adjusting gate position switch. Anytime the tongue height is changed, the gate position switch adjustment procedure will need to be completed.



PY40984—UN—14JUN17

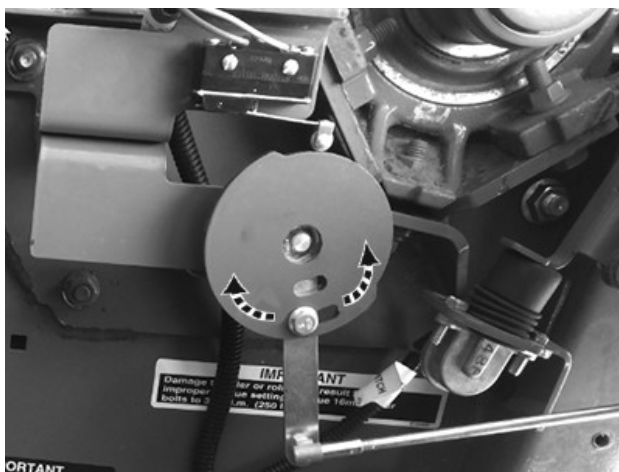


P18236—UN—30AUG17

1. Verify the switch unclicks when the door is about to raise the transfer arm with the chains, and not after (use slot on wheel). Use the adjustment between switch mounting bracket and the gate position sensor bracket for depth and the one between the gate position sensor bracket and micro switch assembly for height.

NOTE: Verify that there are no paint runs on the surface of the wheel. Verify that the wheel is centered around the sensor lever pivot.

IMPORTANT: When properly adjusted, some slack will be present in gate chain (see arrow in image).



PY40985—UN—14JUN17

2. For correct cam plate orientation, smaller diameter section is towards the rear of the baler as shown.

Rotate the cam plate clockwise for more gate opening, and counterclockwise for less gate opening.

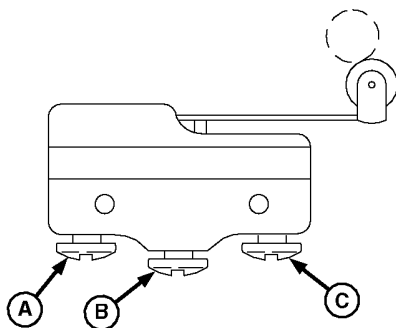
IMPORTANT: For R spec/Premium Balers, gate position sensor potentiometer must be calibrated. Refer to “Calibrate Gate Position Sensor (Premium/R Spec ISOBUS Machines ONLY)” at the end of this section.

RD91939,00006C6-19-10SEP18

Check Microswitches

NOTE: Label wires before disconnecting from switch to ensure proper connection to switch terminals.

Only terminals (A) and (C) are used



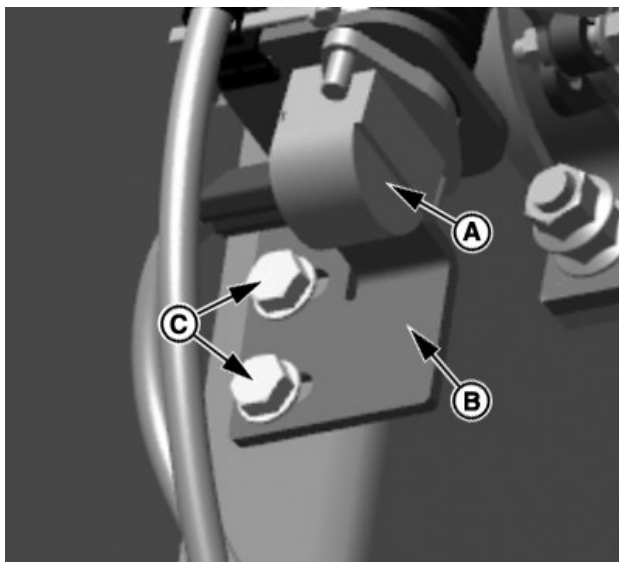
E38432—UN—21FEB95

A—Common Terminal
B—Normally Open Terminal
C—Normally Closed Terminal

1. Disconnect all wires from the switch
2. Attach multimeter leads to the common terminal (A) and normally open terminal (B).
 - When the switch lever is released, there must be no continuity through the switch.
 - When the lever is depressed (click is heard), there must be continuity through the switch.
3. Move lead from normally open (B) to normally closed (C) terminal.
 - When the switch lever is released, there must be continuity through the switch.
 - When the lever is depressed (click is heard), there must be no continuity through the switch
4. If continuity test results are not as described, replace switch.

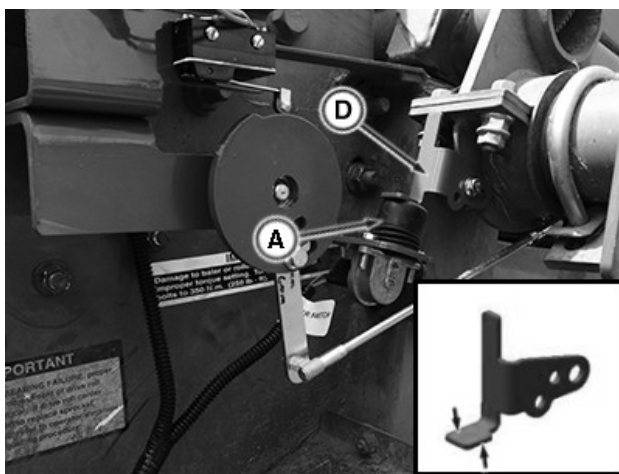
AL61114,00003D3-19-22FEB18

Adjust Alternating Switch



PY39596—UN—27APR17

Gate Position Switch



PY40947—UN—18MAY17

A—Switch
B—Bracket
C—Bolt
D—Target Plate

1. Adjust alternating switch (A) alignment with target by loosening bolts (C) and moving side-to-side. Switch should be positioned to the center of target plate (D).
2. Tighten the bolts (C) of the switch bracket (B).
3. Operate the gate fully to check position of the target plate (D).
4. Loosen bolts (C) and slide switch assembly side to side so that the target plate (D) depress the alternating switch (A) when gate is fully opened as shown.

NOTE: Target plate should only engage the switch enough to make the switch click, too much engagement could bottom the mechanism inside the switch and damage it.

NOTE: Operate the gate through two complete cycles without a bale using the override switch to verify that the slider is alternating correctly.

5. Bend target plate (D) so the switch (A) just clicks at fully open gate position.

AL61114,00003D4-19-20FEB18

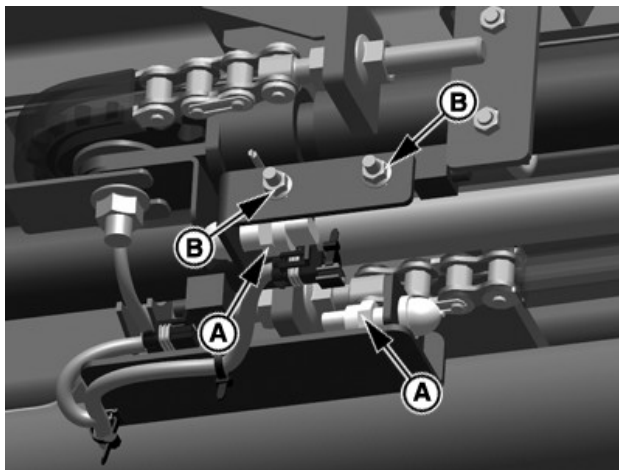
Adjust Slider Position Switch

CAUTION: ENGAGE CART LOCK VALVE before working on or around accumulator. STAND CLEAR before unlocking cart lock valve.



PY40948—UN—18MAY17

Engage Cart Lock Valve



PY39546—UN—27APR17

Slider Position Switch

A—Nut
B—Nut

1. Operate the gate through one complete cycle without a bale using the override switch. This ensures the slider is at the end of travel before adjusting the switch.

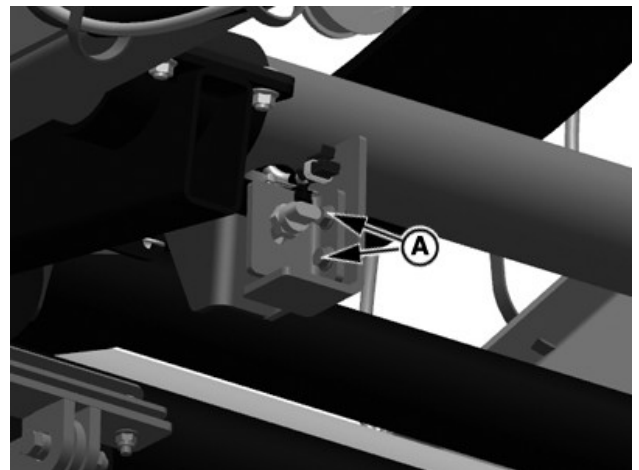
2. The switch should be adjusted to close when the slider is at full travel. Use the nuts (A) on the switch body to adjust the amount of engagement with the target plate nuts (B).
3. Operate the gate through one complete cycle without a bale using the override switch. This ensures that the slider is at the end of travel before adjusting the other switch.
4. Adjust opposite slider switch as described in step 2.

NOTE: If the switch is not engaged far enough with the target plate the gate will not close after the slider stops moving.

NOTE: Switch should only engage the target plate enough to be activated. Too much engagement could bottom the mechanism inside the switch and damage it.

AL61114,00003D5-19-20FEB18

Adjust Transfer Arm Switch



PY39547—UN—27APR17

Transfer Arm Switch (viewed from below the cart)

A—Nut

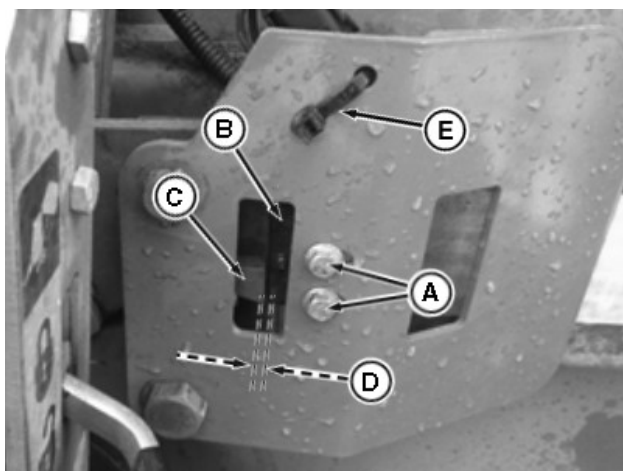
1. Remove push-bar chains from the baler gate. Fully open and lock the baler gate. Use override switch in cab so that gate opens completely and transfer arm stays in home position.
2. Depress bale sensing bar fully to mechanical stops.
3. Adjust sensor using nuts (A) on the switch mounting bracket so it is activated with the bale sensing arm in the resting position, and ensure that it is angled so the hitting plate is contacting the switch on a perpendicular way.
4. Release bale sensing arm and ensure switch returns to open position.
5. Close gate and reattach chains to stud on the gate

frame, then open gate without a bale in the chamber and DO NOT use override switch. The gate stops traveling up after a short distance. If it continues all the way open, check that the transfer arm switch and gate position switch are properly adjusted.

IMPORTANT: Do not start working if the gate opens completely without activating the override switch.

AL61114,00003D6-19-25OCT18

Adjust Gate Latch Proximity Switches



PY40949—UN—29AUG17

- A—Bolts
B—Proximity Switch
C—Latch Bar
D—Dimension, 3.0 mm (1/8 in)

1. Close and latch gate.

NOTE: Ensure that gate cylinders are fully retracted.

2. Loosen bolts (A) and move the switch so it is parallel with mounting window edge and correct distance (D) from latch bar (C).
3. Ensure proximity switch (B) is even distance from top and bottom of latch bar (C). Set distance to specification.

Specification

Proximity Switch—Distance. 3.0 mm
(1/8 in)

4. Tighten Bolts (A) specification it switch mounting bushings are Plastic.

Specification

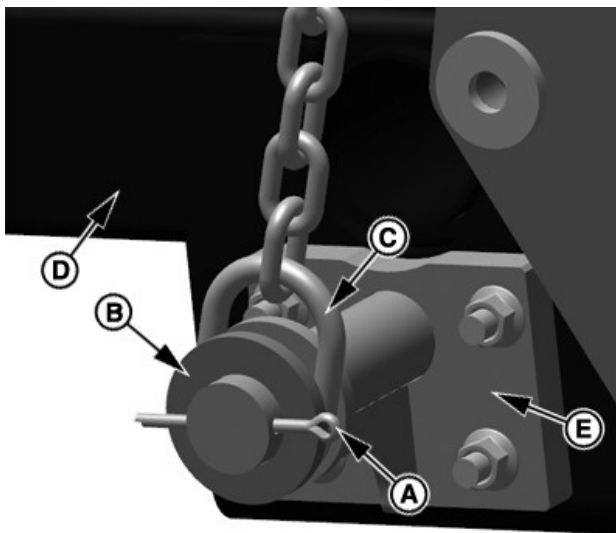
Switch Mounting Bolts—Torque. 5 N·m
(44 lb·in)

5. Repeat on the opposite side.

6. To confirm switch operation, see your baler operator's manual

AL61114,00003D7-19-20FEB18

Remove and Install Transfer Arm

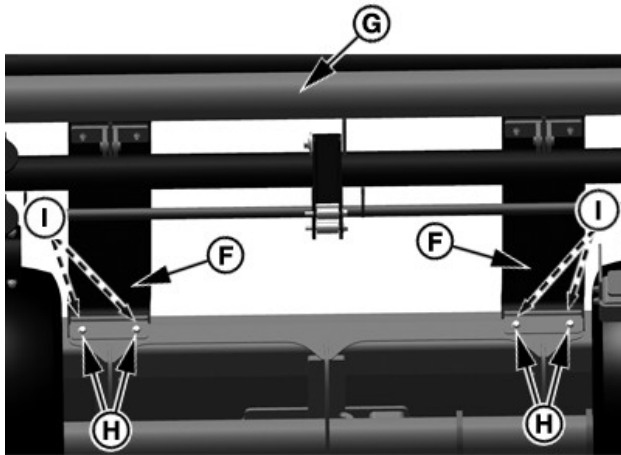


PY39548—UN—23MAR17

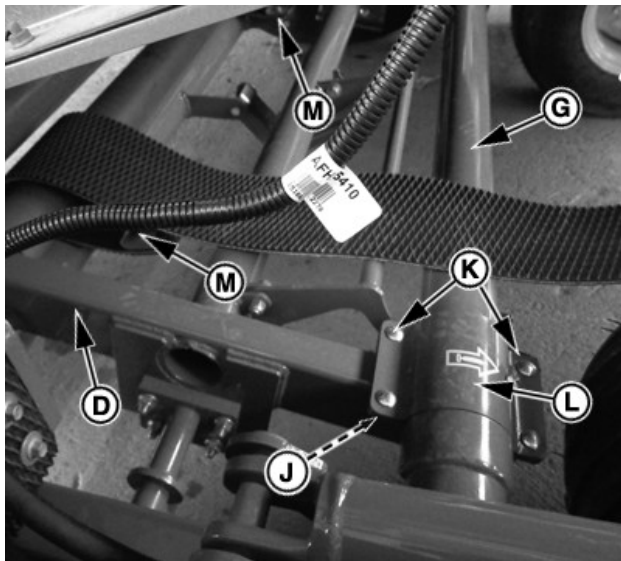
Remove Transfer Arm Chain

- A—Cotter Pin
B—Washer
C—Chain
D—Frame, Transfer Arm
E—Bracket

1. Remove cotter pin (A) and washer (B). Remove transfer arm chain (C) from chain mounting bracket (E). Repeat for the other side.
2. Disconnecting the bale sensing switch and move the harness out of the way.
3. Disconnect the return spring in the center by removing one of the nuts & bolts.
4. Remove belts from front part of the main frame.
5. Remove spring from the front of the main frame.
6. Rotate transfer arm into the up position and rest on the tires.



PY39550—UN—25APR17
Belt Bale Accumulator



PY39551—UN—27APR17
Disconnect Accumulator Cross-Bar from Transfer Arm

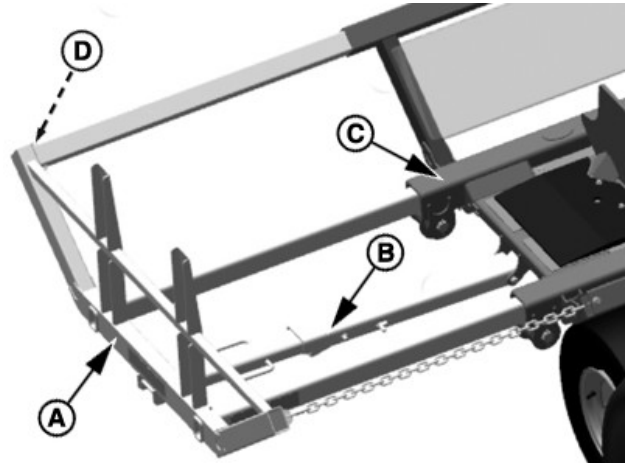
- D—Frame, Transfer Arm
- E—Bracket
- F—Belt
- G—Accumulator Cross-Bar
- H—Bolt
- I—Nut
- J—Nut
- K—Bolt
- L—Plate
- M—Bolt

7. Remove bolts (K) and plate (L).
8. Remove belts (F) by unscrewing bolts (H) and nuts (I) from the front of machine.
9. Remove plate (L) by unscrewing bolts (K) and nuts (J). Lift the transfer arm (D) out of frame.

10. To install the transfer arm follow the reverse order. Use recommended torque for all the hardware.

AL61114,00003D8-19-22FEB18

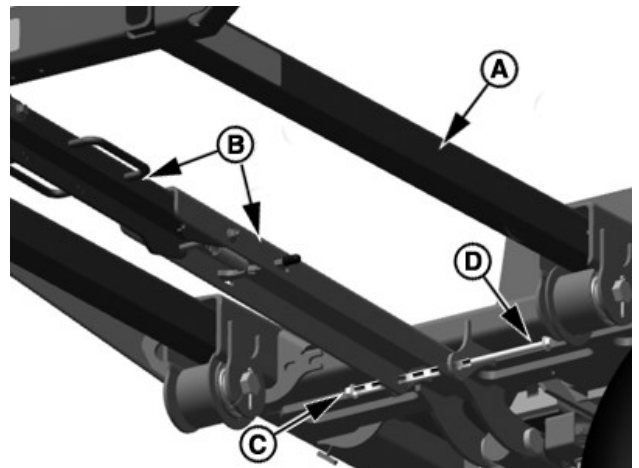
Remove and Install Cart Wing



PY39577—UN—27APR17
Bale Accumulator, Wing Frame

- A—Wing Frame
- B—Cart Frame
- C—Linkage, Wing Frame
- D—Bolt

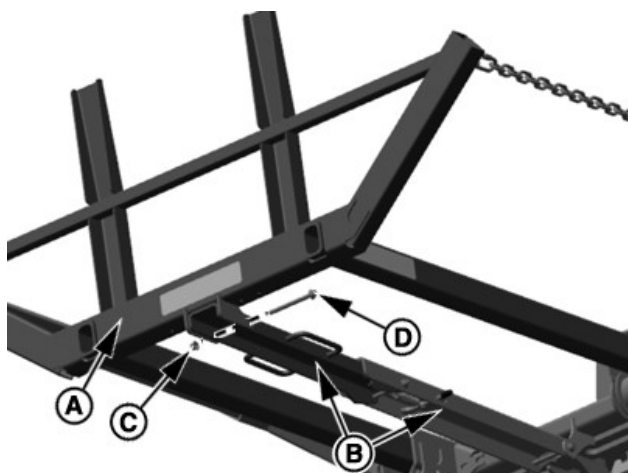
1. Use appropriate lifting chains or straps to support the wing frame (A) during removal.
2. Remove bolt (D) from the telescopic tube.



PY39576—UN—18APR17
Cart Extension Hardware

- A—Wing Frame
- B—Linkage, Wing Frame
- C—Nut
- D—Bolt

3. Remove bolt (C), and nut (D).

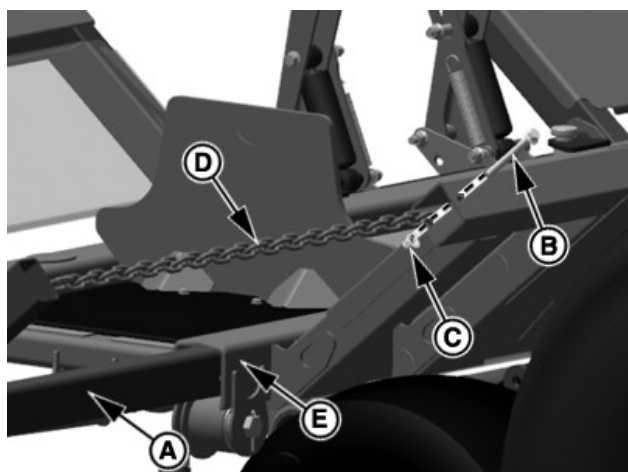


PY39580—UN—18APR17

Wing Frame Linkage

- A—Wing Frame
- B—Linkage, Wing Frame
- C—Nut
- D—Bolt

4. Remove wing latch linkage by removing bolt (D) and nut (C). Repeat the procedure on the other side of the bale accumulator cart.

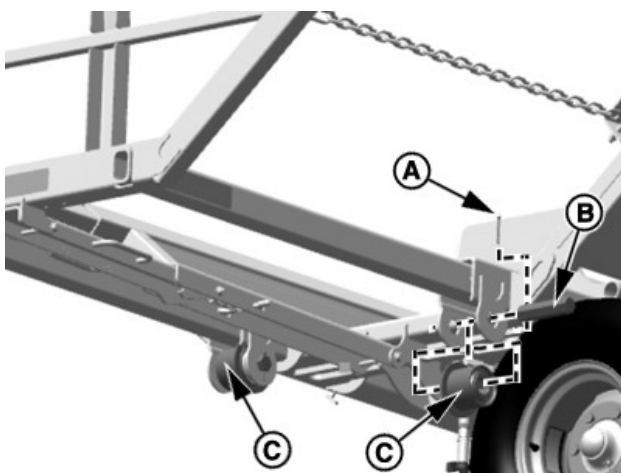


PY39575—UN—10APR17

Remove Cart Extension

- A—Wing Frame
- B—Bolt
- C—Nut
- D—Chain
- E—Cart Frame

5. Remove bolt (B), and nut (C) from the wing chain.



PY39581—UN—27APR17

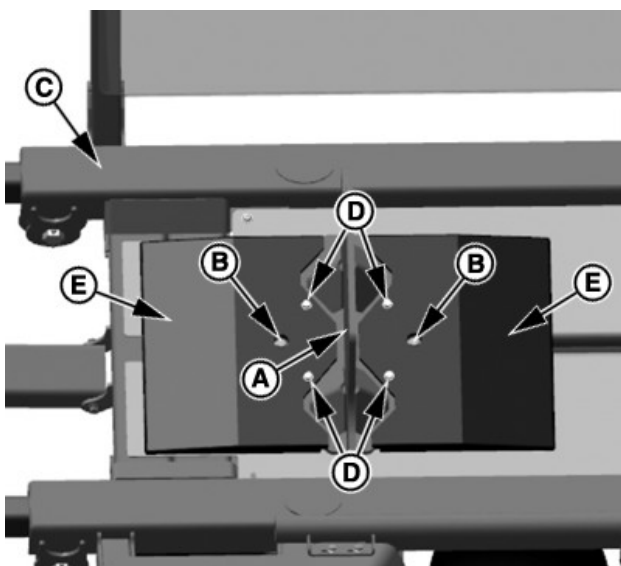
Remove Wing Roller

- A—Cotter Pin
- B—Hex Pin
- C—Wing Roller

6. Remove wing rollers (C) by removing cotter pin (A) and hex pin (B).
7. With wing, supported by lifting device slowly slide out of the cart mainframe.

AL61114,00003D9-19-20FEB18

Remove and Install Slider Paddle



PY39586—UN—24APR17

Slider

- A—Slider
- B—Bolt
- C—Cart Frame
- D—Bolts
- E—Plastic Deflector

1. Remove two black plastic deflectors on slider (A) by removing two self-tapping bolts (D).

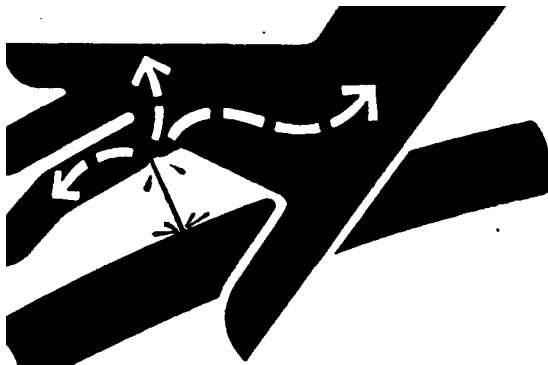
2. Unscrew the two bolts (B) of slider (A) remove the slider from the bale accumulator frame (C).
3. To install the slider follow the reverse order. Use recommended torque for all the hardware.

AL61114,00003DA-19-20FEB18

Remove and Install Slider Cylinders

Remove Slider Cylinders

NOTE: Use a suitable lifting mechanism to tilt the accumulator so that the underside of the accumulator is easily accessible.

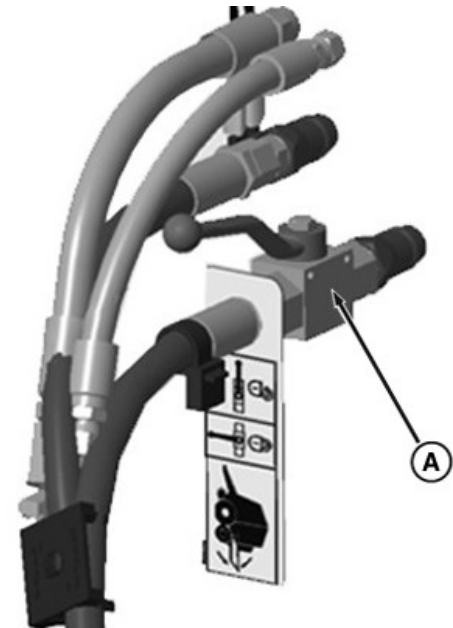


X9811—UN—23AUG88

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.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene can result. Doctors unfamiliar with this type of injury must reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.

IMPORTANT: To relieve any trapped pressure in the slider cylinder circuit, open bleeder valves in base end of slider cylinders.



P18522—UN—10NOV18

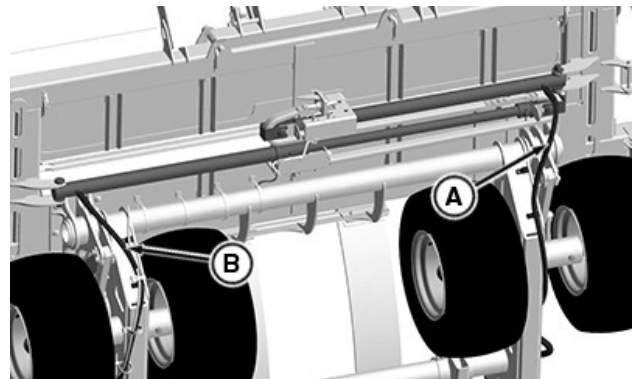
Cart Lockout Valve

A—Valve

1. Before working under the cart be sure to engage the cart lockout valve at the tractor connection.

CAUTION: Before working under the cart be sure to engage the cart lockout valve at the tractor connection.

2. Disconnect the right-hand hydraulic hose (A) and the left-hand hydraulic hose (B) from both the slider cylinders.

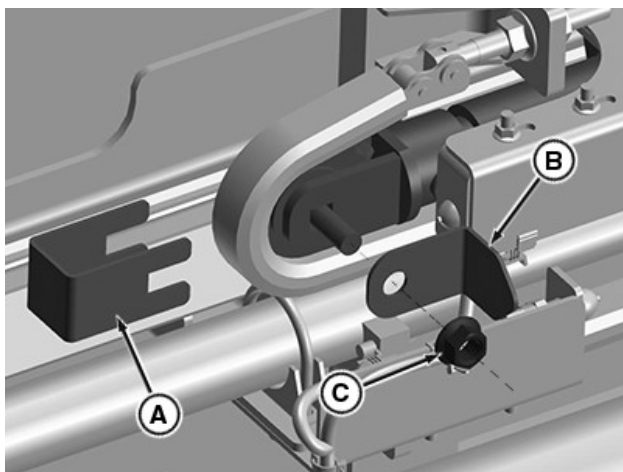


PY30992—UN—22MAR17

A—Right-hand Hydraulic Hose
B—Left-hand Hydraulic Hose

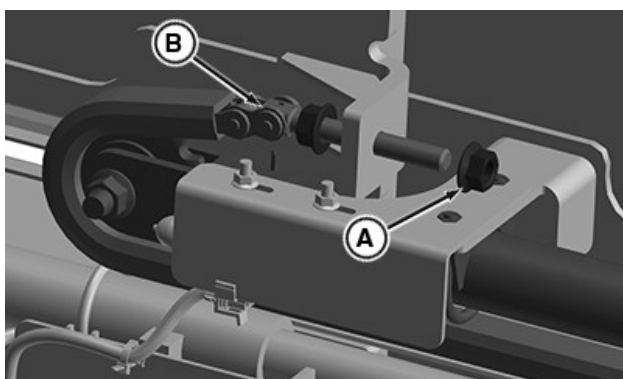
NOTE: With the cylinders in the position shown, oil leaks out of cylinder if not plugged.

3. Remove chain guard (A) and slider switch sensing plate (B) by removing nut (C).



PY30993—UN—21MAR17

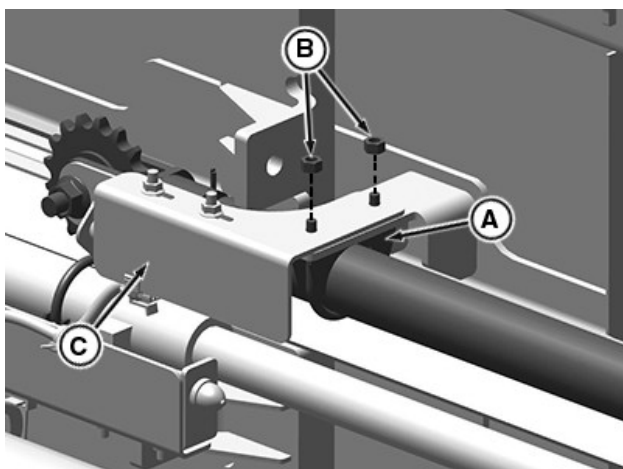
A—Chain Guard
B—Slider Switch Sensing Plate
C—Nut



PY30994—UN—25OCT18

A—Nut
B—Roller Chain

4. To uninstall roller chain (B), loosen and remove jam nut (A) as shown.
5. Remove clamp (A) by removing two hex nut (B). Place slider sensor bracket (C) safely free from the slider shaft as shown.

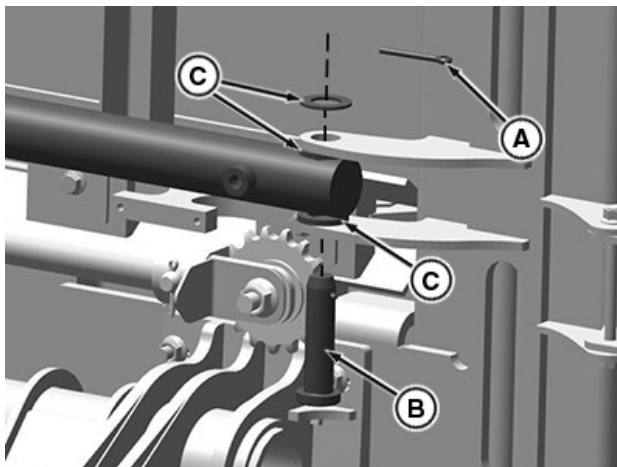


PY30996—UN—22MAR17

A—Clamp
B—Hex Nut (2)
C—Slider Sensor Bracket

CAUTION: Use a suitable support for the slider cylinder to hold in place during disassembly

6. Starting from the rear right-hand slider cylinder remove cotter pin (A), pin fastener (B) and five washers (C).



PY30995—UN—17MAR17

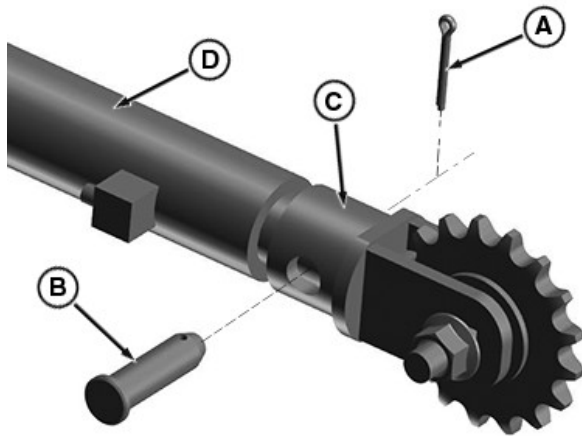
A—Cotter Pin
B—Pin Fastener
C—Washer (5) (two on each side of the cylinder)

7. Now the base end of the cylinder is free and can be removed along with its sprocket assembly attached.



PY30997—UN—22MAR17

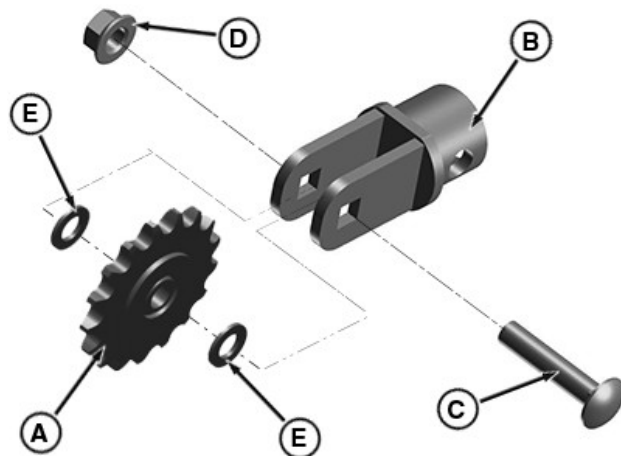
8. Remove cotter pin (A), pin (B) and uninstall slider chain sprocket (C) from the slider cylinder (D) as shown.



PY30998—UN—22MAR17

- A—Cotter Pin
- B—Pin
- C—Slider Chain Sprocket
- D—Slider Cylinder

9. Remove slider chain sprocket (A) from the cylinder clevis (B) by removing bolt (C), nut (D), and two washers (E) as shown.



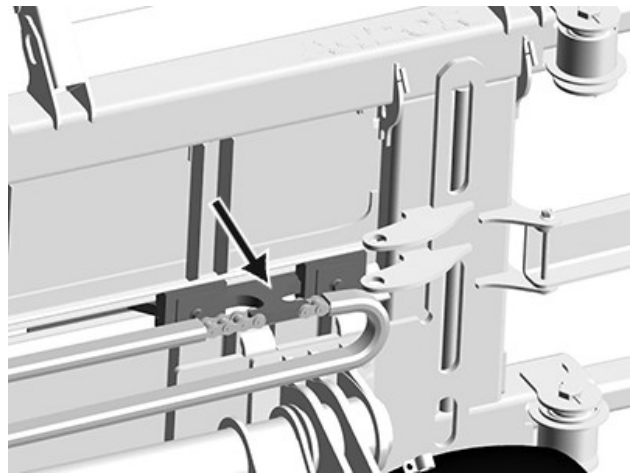
PY30999—UN—13APR17

- A—Chain Sprocket
- B—Cylinder Clevis
- C—Bolt
- D—Nut
- E—Washer (2)

10. Repeat step 2 to step 8 for the other cylinder also.

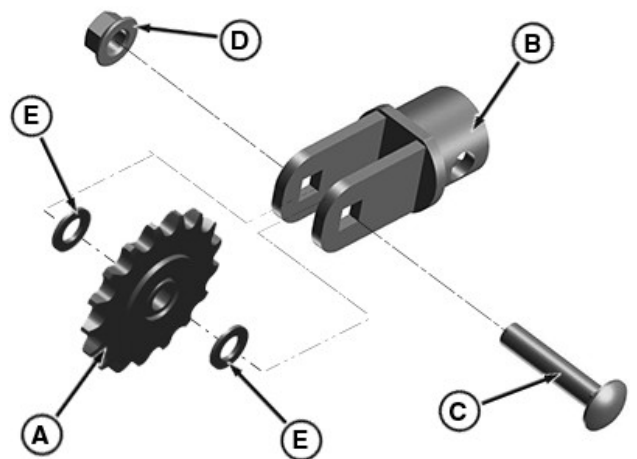
Install Slider Cylinders

1. Assemble slider paddle assembly in the frame as shown along with the chain.



PY31000—UN—22MAR17

2. Assemble slider chain sprocket (A) with the cylinder clevis (B) using bolt (C), nut (D), and two washers (E) as shown



PY30999—UN—13APR17

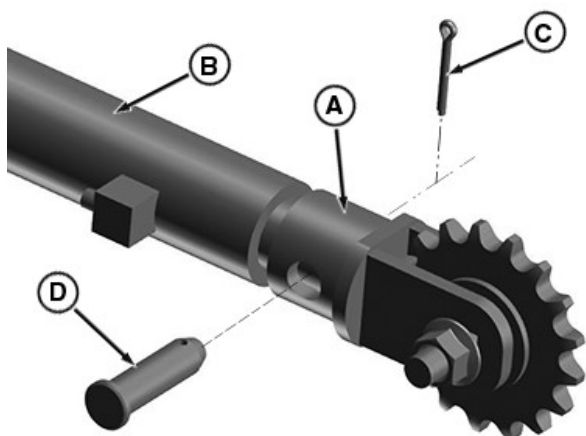
- A—Chain Sprocket
- B—Cylinder Clevis
- C—Bolt
- D—Nut
- E—Washer (2)

NOTE: Check visually that gear rotates freely

NOTE: Hand tighten the nut

NOTE: Assure pin head is facing down after cylinder is installed.

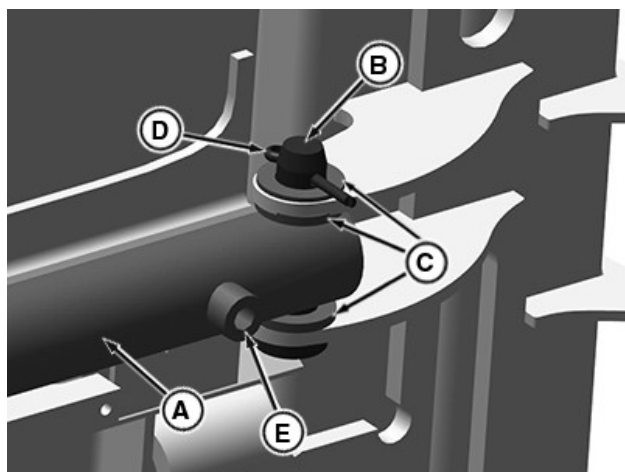
3. Assemble slider chain sprocket (A) and slider cylinder (B) using cotter pin (C) and pin (D) as shown.



PY40901—UN—22MAR17

- A—Slider Chain Sprocket
B—Slider Cylinder
C—Cotter Pin
D—Pin

4. Assemble slider cylinder (A) to the accumulator frame using pin fastener (B), five washers (C), and cotter pin (D).



PY40902—UN—13APR17

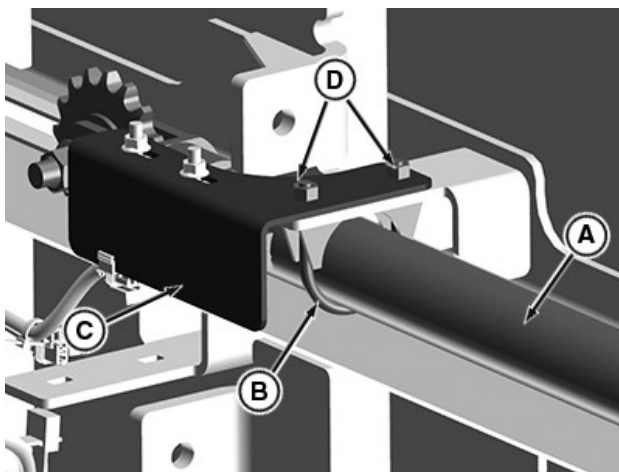
Right-Hand Slider Cylinder Shown

- A—Slider Cylinder
B—Pin Fastener
C—Washer (5)
D—Cotter Pin
E—Port

NOTE: Confirm orientation of the cylinder with port E facing down

NOTE: Pin head must be on side closest to the slider.

5. Secure slider cylinder (A) to the accumulator frame by installing clamp (B) along with plate (C) using two nuts (D) as shown.

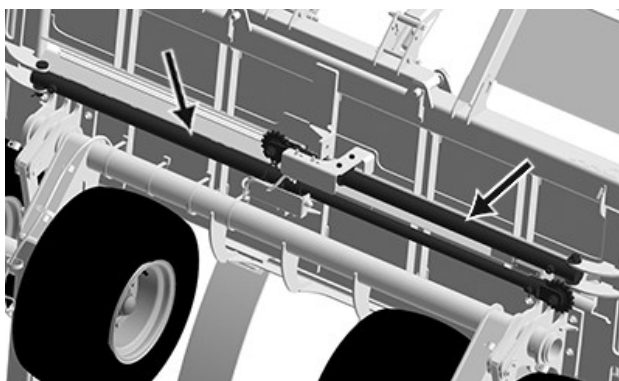


PY40903—UN—22MAR17

- A—Slider Cylinder
B—U Clamp
C—Plate
D—Nut (2)

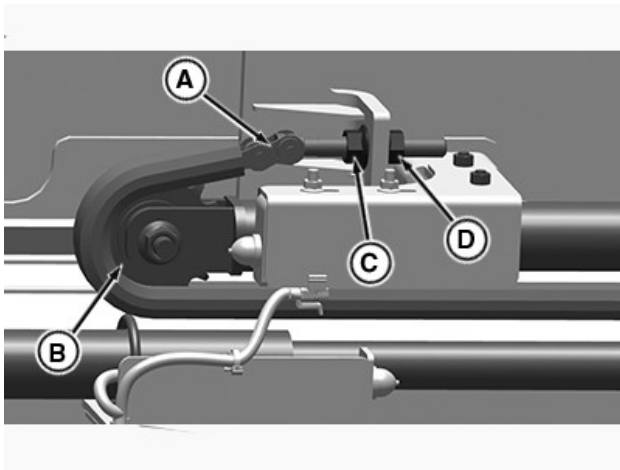
NOTE: Do not overtighten the clamp. Assure alignment by comparing gap between the cart frame channels at the base end of the cylinder and at rod end of the cylinder.

6. Now with cylinder securely assembled to the frame as shown, repeat step 2 to step 5 for other cylinder.



PY40904—UN—22MAR17

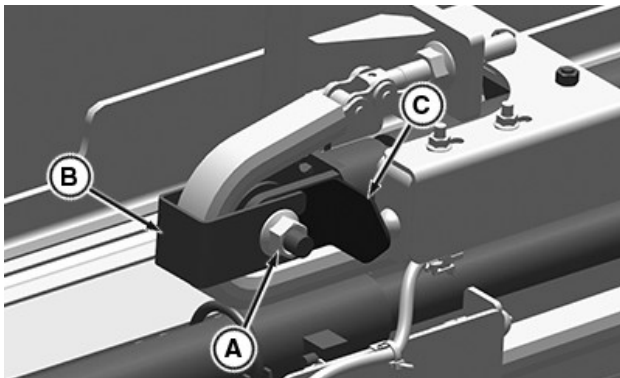
7. Route and assemble roller chain (A) over gear (B) on the slider shaft to the frame using lock nuts (C) and nut (D) as shown.



APY00335—UN—23FEB18

A—Roller Chain
B—Gear assembly
C—Jam Nut
D—Nut

8. Loosen nut (A) and install chain guard (B) along with slider switch sensing plate (C) as shown.



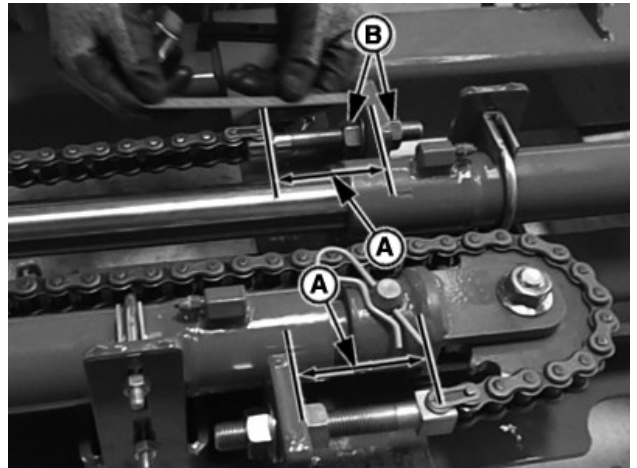
PY40906—UN—22MAR17

A—Nut
B—Chain Guard
C—Slider Switch Sensing Plate

9. Repeat steps 2 through 7 for other cylinder.

RD91939,00006E1-19-13NOV18

Check Slider Chain



PY30600—UN—16MAR17

A—Bolt End
B—Nut

Adjust chain tension using nuts (B). Chain must be set to have 1" side to side slack at the center of the accumulator.

NOTE: Maintain dimension (A):

for A420R = 55 mm

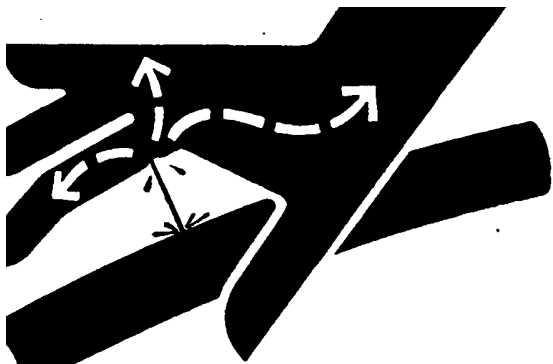
for A520R = 75 mm

RD91939,00006E3-19-26OCT18

Remove and Install Cart Dump Cylinders

Remove Cart Dump Cylinders

NOTE: Use a suitable lifting or supporting mechanism to secure the accumulator in place.

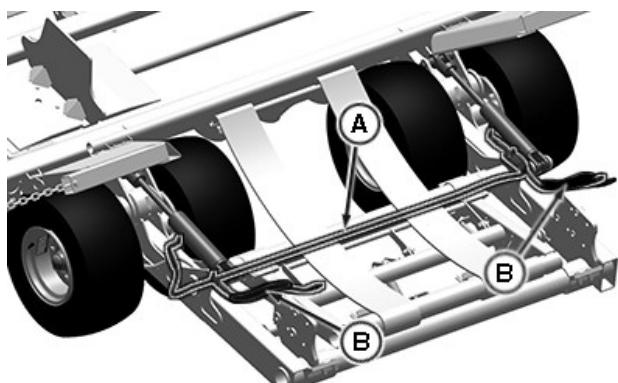


X9811—UN—23AUG88

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.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene can result. Doctors unfamiliar with this type of injury must reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.

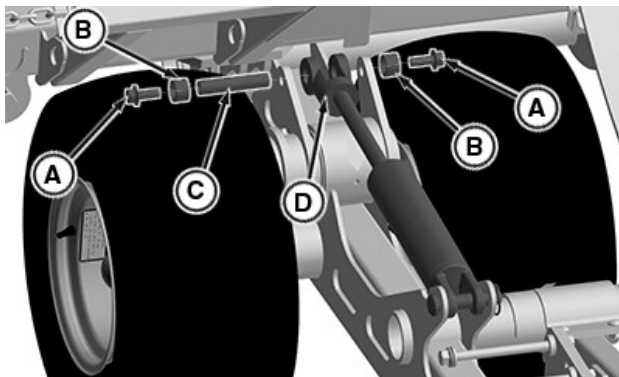
NOTE: Protective sleeves have been provided and are required in corner areas to avoid hose rubbing with sharp edges. Ensure that sleeves are installed at correct location after any hydraulic hose replacement or service.



A—Hydraulic Hose
B—Sleeve

PY40907—UN—18MAY17

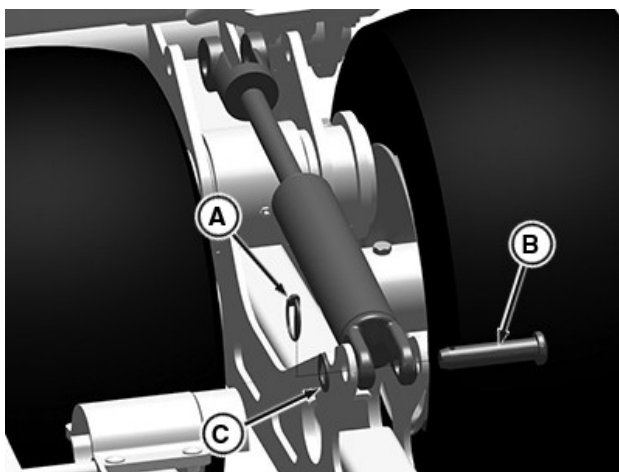
1. Disconnect all hydraulic hoses (A) along with sleeves (B) connected to both the dump cylinders (right-hand and (left-hand)



PY40908—UN—24MAR17

A—Bolt (2)
B—Bushing (2)
C—Pin
D—Rod End

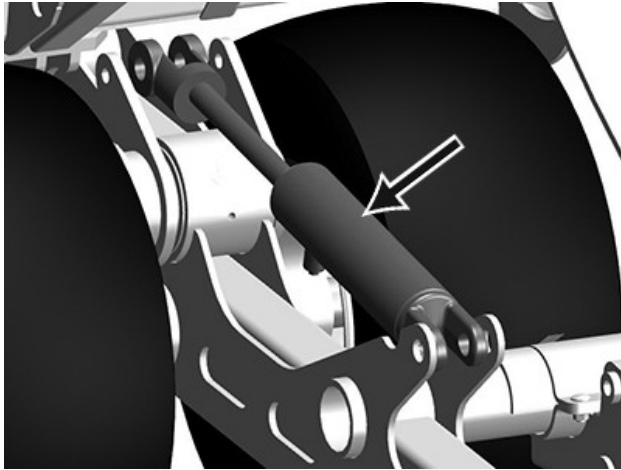
2. Remove two bolts (A), two bushings (B), pin (C) from the rod end (D) as shown.



PY40909—UN—25APR17

A—Quick Lock Pin
B—Pin
C—Washer

3. Remove quick lock pin (A), and pin (B) and washer (C) from the cylinder base end as shown.

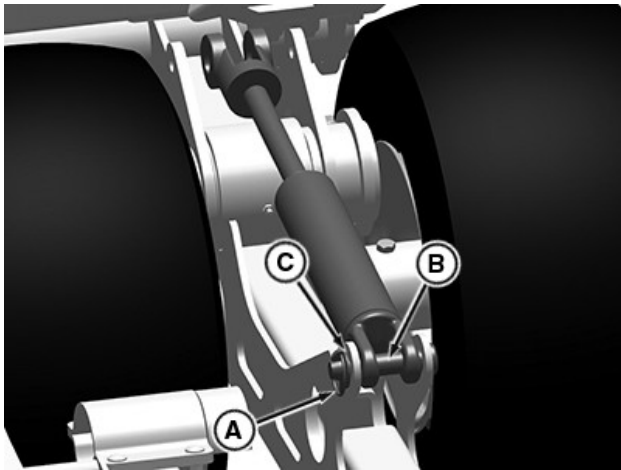


PY40910—UN—24MAR17

4. The cylinder assembly can be easily removed from the machine.
5. Repeat step 2 to step 4 for the left-hand side dump cylinder

Install Cart Dump Cylinders

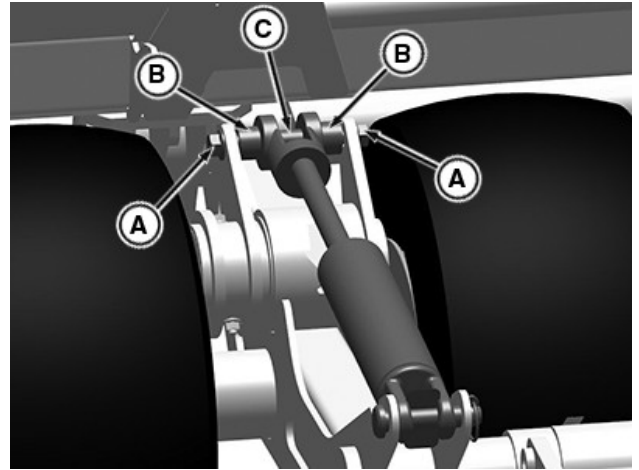
NOTE: Use a suitable lifting or supporting mechanism to secure the dump cylinder in place.



PY40911—UN—25APR17

A—Quick Lock Pin
B—Pin
C—Washer

1. Secure cylinder to frame using quick lock pin (A), and pin (B) and washer (C) as shown.



PY40912—UN—24MAR17

A—Bolt (2)
B—Bushing (2)
C—Pin

2. Secure and install the cylinder to the frame using two bolts (A), two bushings (B), and pin (C) as shown.

Specification

Bolt—Torque. 128 N·m
96 (lb·ft)

3. Repeat step 1 to step 2 for the left-hand side dump cylinder.

RD91939,00006E2-19-09NOV18

Phase Cart Dump Cylinders

Hydraulic Cylinder Bleed Procedure

CAUTION: Prevent injury from unexpected machine movement. Perform this procedure when repairs or maintenance is done on the hydraulic system, or when machine has been stored for a long period.

IMPORTANT: Trapped air suddenly compressed in a cylinder is heated and ignites the oil used for assembly causing cap seal and ring damage. Procedure eliminates most of the air and reduces the possibility of damage.

NOTE: Phase cart dump cylinders at the beginning of every season or after long periods of storage. Circuit must also be phased after any repairs are made to hoses, couplers, valves, or cylinders in the circuit.

1. Operate engine at low idle rpm.
2. Hold tractor SCV in extend position (cart in raised position) for one minute.
3. Operate cylinders several times to the full stroke

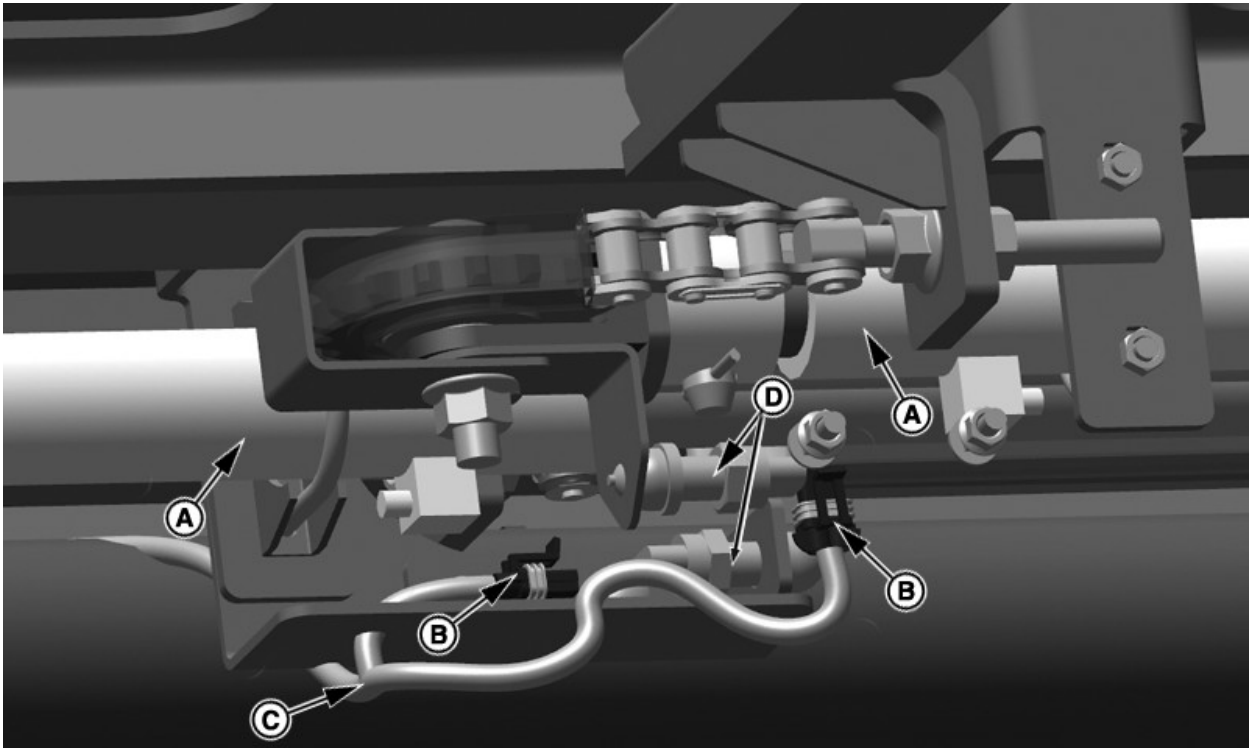
holding for ten seconds at the end of stroke in each direction

AL61114,00003DD-19-20FEB18

Remove/Install Cart from Frame

1. Before start disassembling the cart, use a suitable

lifting or support mechanism to secure the accumulator in place.



PY39570—UN—07APR17

Electrical Connector

A—Hydraulic Cylinder
B—Connector

C—Wiring Harness
D—Switch

2. Disconnect electrical connectors (B) from the slider switch (D). Separate the wiring harness (C) from cart.



PY39564—UN—07APR17

Slider Hydraulic Hose

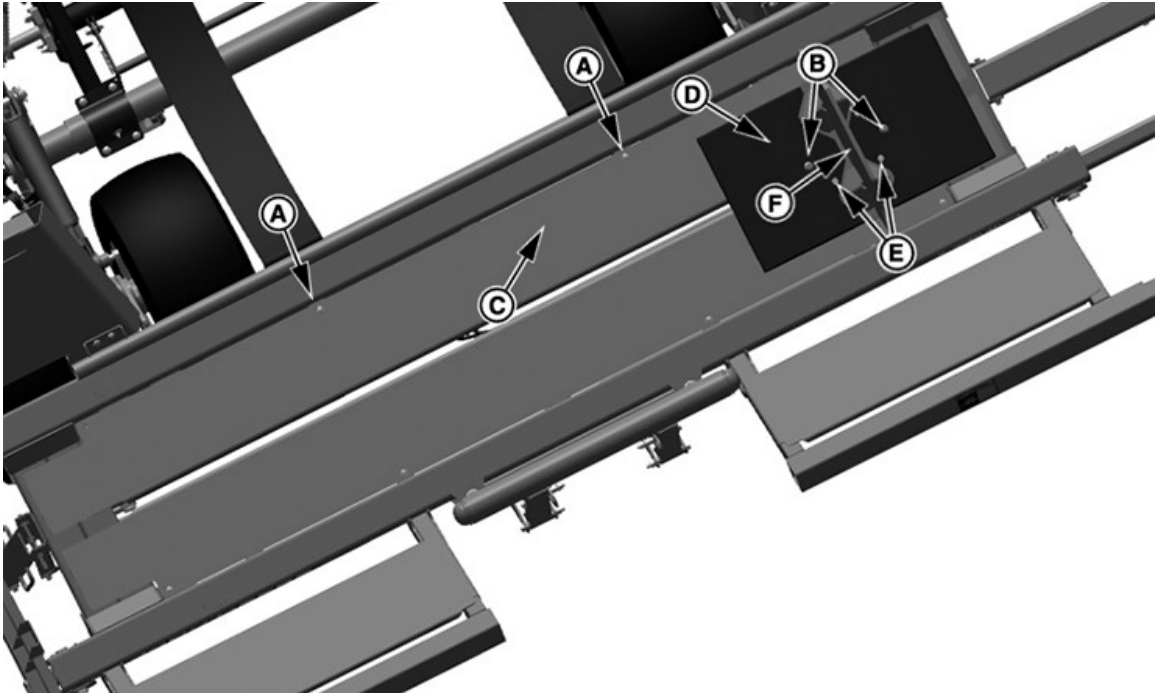
A—Hydraulic Hose

3. Remove hydraulic hose (A) connections from the slider hydraulic cylinder (B).

B—Hydraulic Cylinder



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.



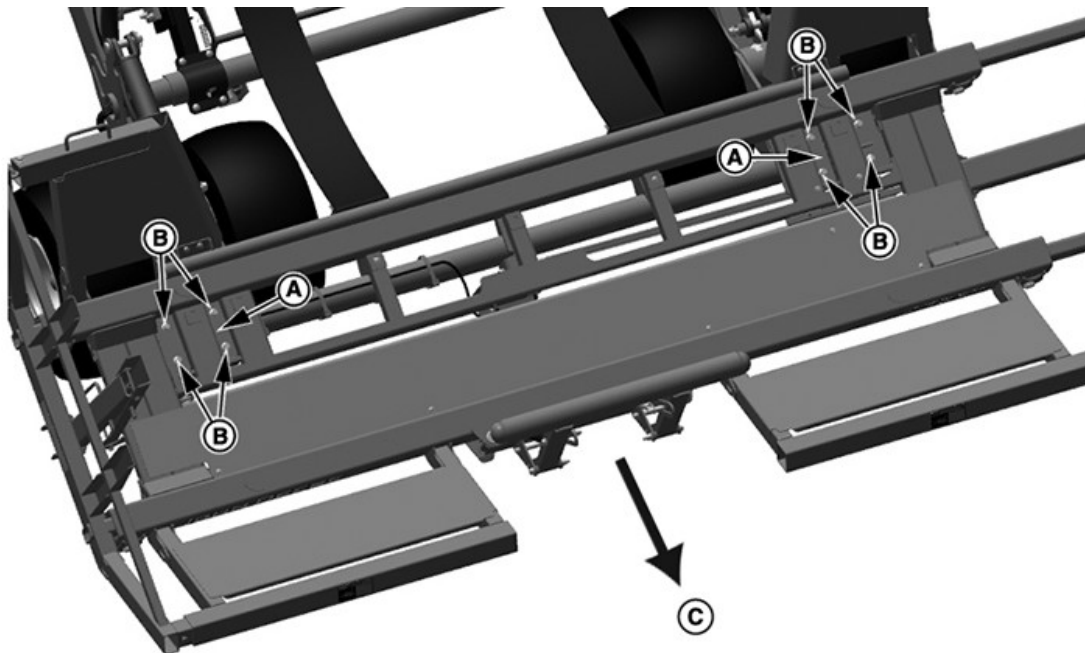
APY00338—UN—26FEB18

A—Bolt
B—Bolt
C—Cart Platform

D—Deflector
E—Bolt
F—Slider

Remove all bolts (A) from the cart platform (C) and access the pivot support bolts.

4. Refer “remove and install slider paddle” step.

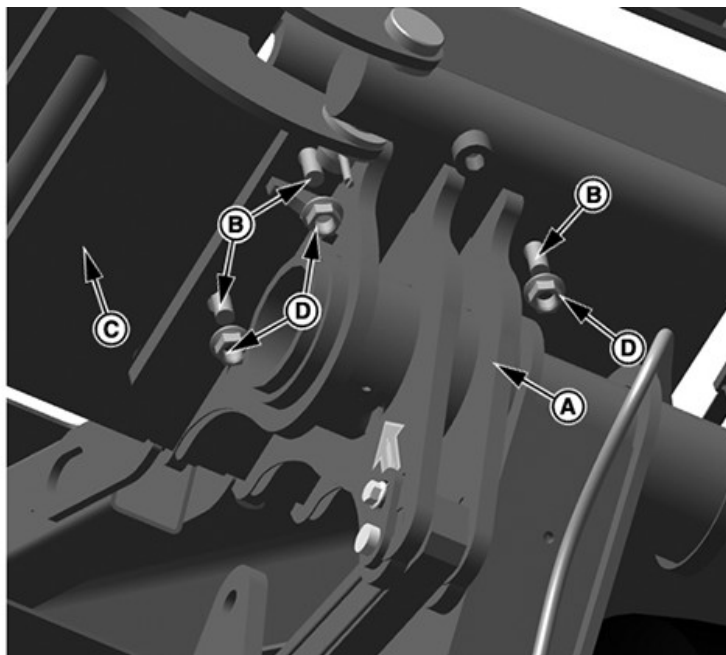


APY00336—UN—26FEB18

A—Support
B—Bolt

C—Damper Arm and Access Gate

5. Remove four bolts (B) from pivot support (A).



APY00337—UN—26FEB18

A—Support Pivot
B—Bolt

C—Cart Main Frame
D—Nut

6. To separate the support pivot (A) remove nuts (D), & bolts (B) from the cart main frame (C).

Remove/Install Cart Dump Linkage

Configurations for Overcenter Link and Cart Pivot Support

The overcenter link and cart pivot support come in two configurations:



Cart Frame

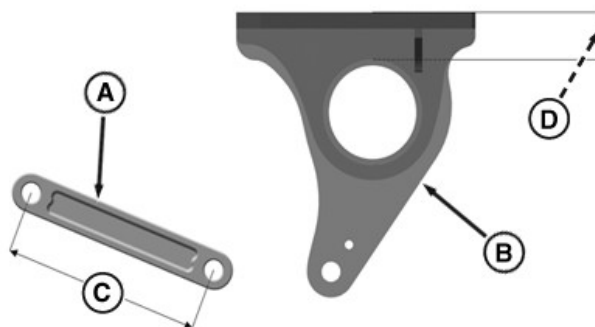
PY39582—UN—23MAY17

A—Cart Frame
B—Strap
C—Chain
D—Baler
E—Jackstand

7. Support the cart frame (A) with strap (B), and chains (C) properly before lifting the cart frame (A).

8. To install cart frame follow reverse order.

AL61114,00003DE-19-12MAR18



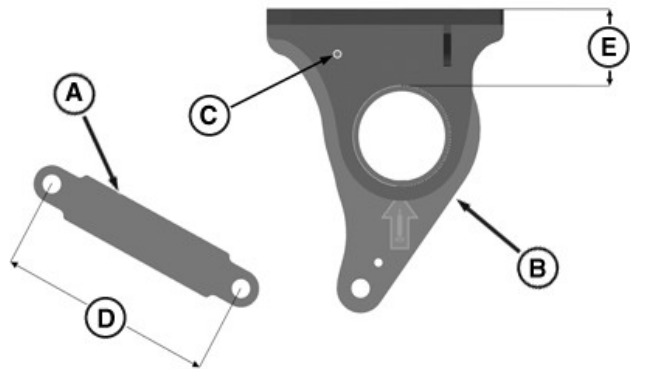
MegaWide Configuration

P18178—UN—01JUN17

A—Overcenter link
B—Cart pivot support
C—Link length: 203 mm (8 in)
D—Distance: 45.9 mm (1.8 in)

1. Compatibility with balers having the MegaWide™ feed system.

MegaWide is a trademark of Deere & Company



HC² Configuration

P18177—UN—01JUN17

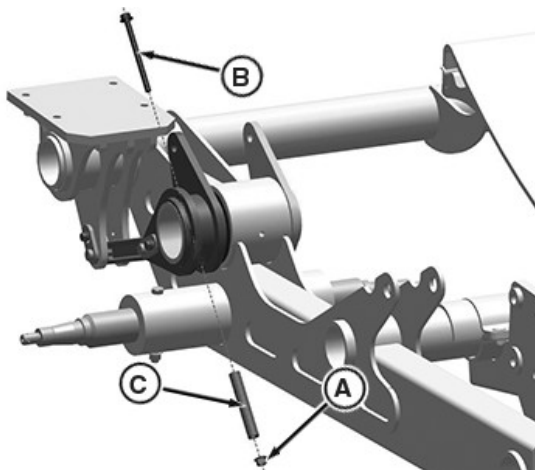
- A—Overcenter link
- B—Cart pivot support
- C—Identifier hole
- D—Link length: 224 mm (8.8 in)
- E—Distance: 77.5 mm (3.0 in)

2. Compatibility with balers having the HC² feed system.

IMPORTANT: The overcenter links and cart pivot supports must be installed together on both sides. Do not mix configurations.

Remove Cart Dump Linkage

CAUTION: If the linkage is removed from the system a crushing hazard can occur. Avoid the hazard by supporting the cart frame with a proper lifting device.

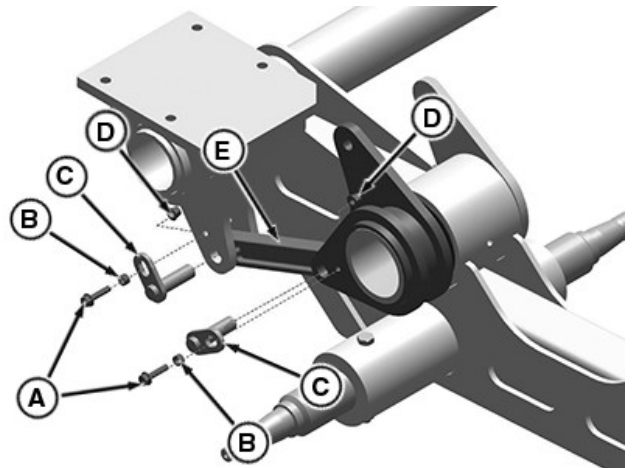


PY40913—UN—29MAR17

- A—Nut
- B—Bolt
- C—Bushings

1. Remove cart outer wheel by referring the wheel removal recommended procedure.
2. Remove nut (A), bolt (B), and bushing (C) as shown.

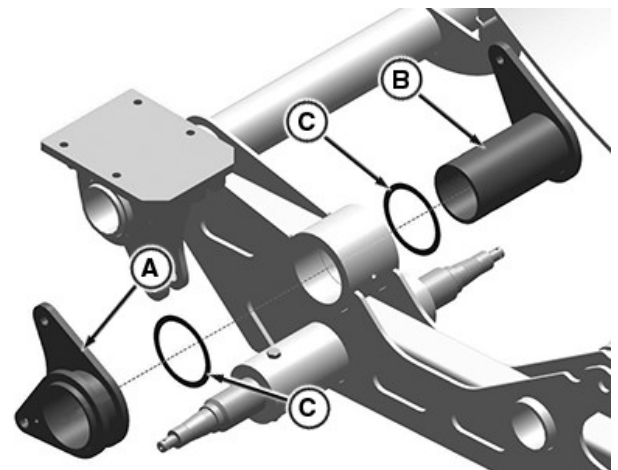
3. Remove bolt (A), bushing (B), pin fastener (C), and nut (D) as shown and remove overcenter link (E).



PY40914—UN—29MAR17

- A—Bolt
- B—Bushings
- C—Pin Fastener
- D—Nut
- E—Overcenter Link

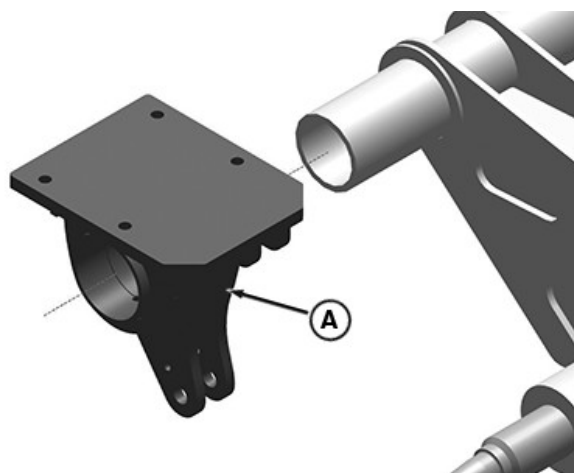
4. Remove tilt mechanism arm (A) and arm (B) along with washer (C) as shown.



PY40915—UN—29MAR17

- A—Tilt Mechanism Arm
- B—Tilt Mechanism Arm
- C—Washer

5. Remove cart pivot support (A) from the main frame as shown.



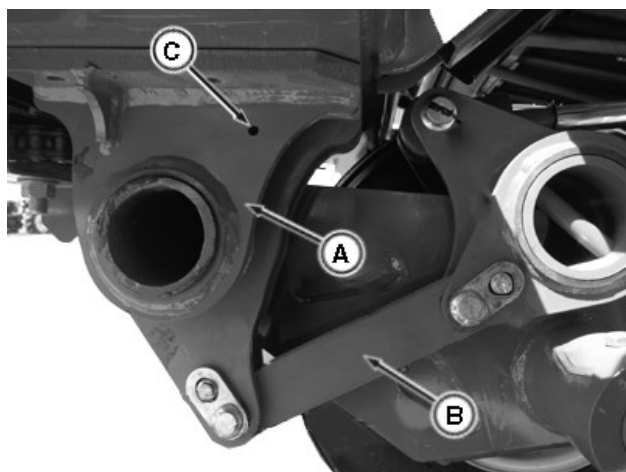
PY40916—UN—29MAR17

A—Cart Pivot Support

6. Repeat step 1 to step 4 for right-hand side linkage

Install Cart Dump Linkage

1. Install cart pivot support (A) onto the main frame as shown.

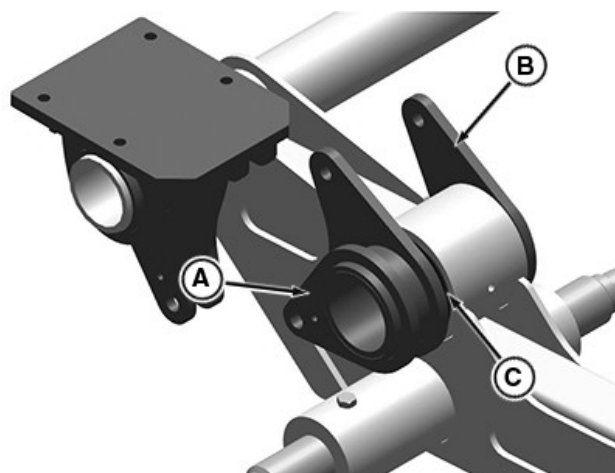


PY40917—UN—28JUN17

A—Cart Pivot Support

IMPORTANT: Coat outside of the cart pivot tube and inside of pivot with Moly grease before assembly

2. Install tilt mechanism arm (A) and arm (B) along with washer (C) as shown.

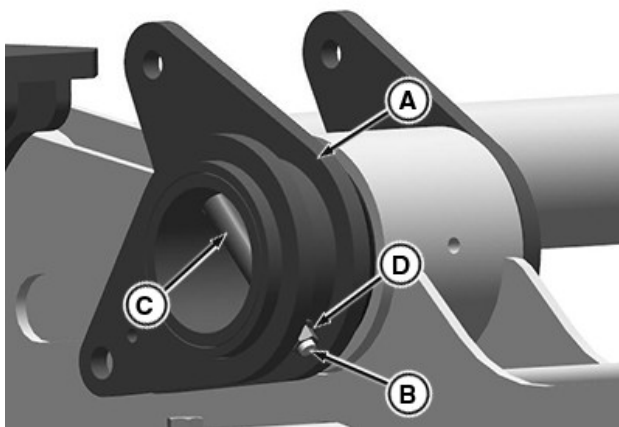


PY40918—UN—29MAR17

A—Tilt Mechanism Arm
B—Tilt Mechanism Arm
C—Washer

IMPORTANT: Coat outside of the tilt mechanism tube and inside of pivot with Moly grease before assembly

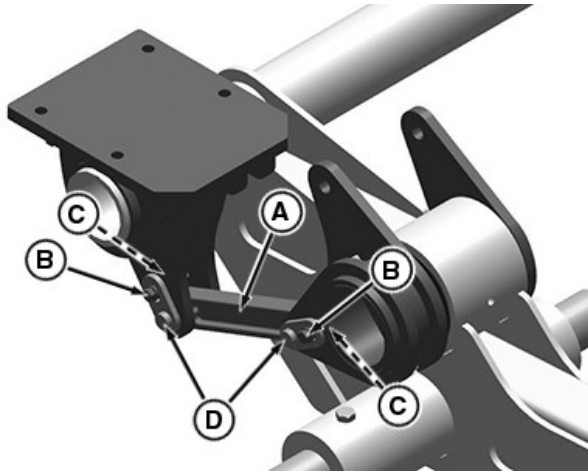
3. Secure tilt mechanism arm assembly (A) using bolt (B), bushing (C), and nut (D).



PY40919—UN—29MAR17

A—Tilt Mechanism Arm Assembly
B—Bolt
C—Bushing
D—Nut

4. Install over-center link (A) using two bolts (B), two bushings (C), and pin fastener (D) and nut (E) as shown.



PY40920—UN—29MAR17

A—Overcenter Link
B—Bolt (2)
C—Bushing (2)
D—Flag Pin
E—Nut

IMPORTANT: Coat flag pins with moly grease before assembly to avoid wear and friction in these joints.

5. Repeat step 1 to step 4 for right-hand side linkage.

RD91939,00006AF-19-10SEP18

Accumulator Wheel Installation Recommended Procedure

IMPORTANT: Install wheels with tires so valve stem is facing outwards. Incorrect assembly can cause wheel bolts to loosen.

1. Install and tighten wheel bolts to specifications.

Six Bolt Wheels — Specification

Wheel Bolt—Torque. 115 N·m
(85 lb·ft)

2. Lower machine and remove blocks.

3. Check tire inflation pressure.

26 - 12 X 12 (12 PLY) — Specification

Tires—Inflation Pressure. 207 kPa
(2.1 bar)
(30 psi)

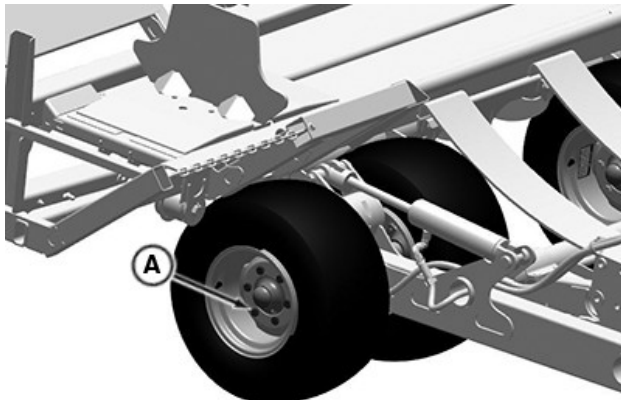
IMPORTANT: Check wheel bolt torque after 1 hour of operation.

AL61114,00003E0-19-10SEP18

Wheel Removal Recommended Procedure

Accumulator Wheel Removal Recommended Procedure

1. Install blocks at the front and back of wheel on the opposite side of accumulator.
2. Raise one side of accumulator using a floor jack. Support accumulator frame near wheel to be removed.
3. Remove six wheel bolts (A) and hub.

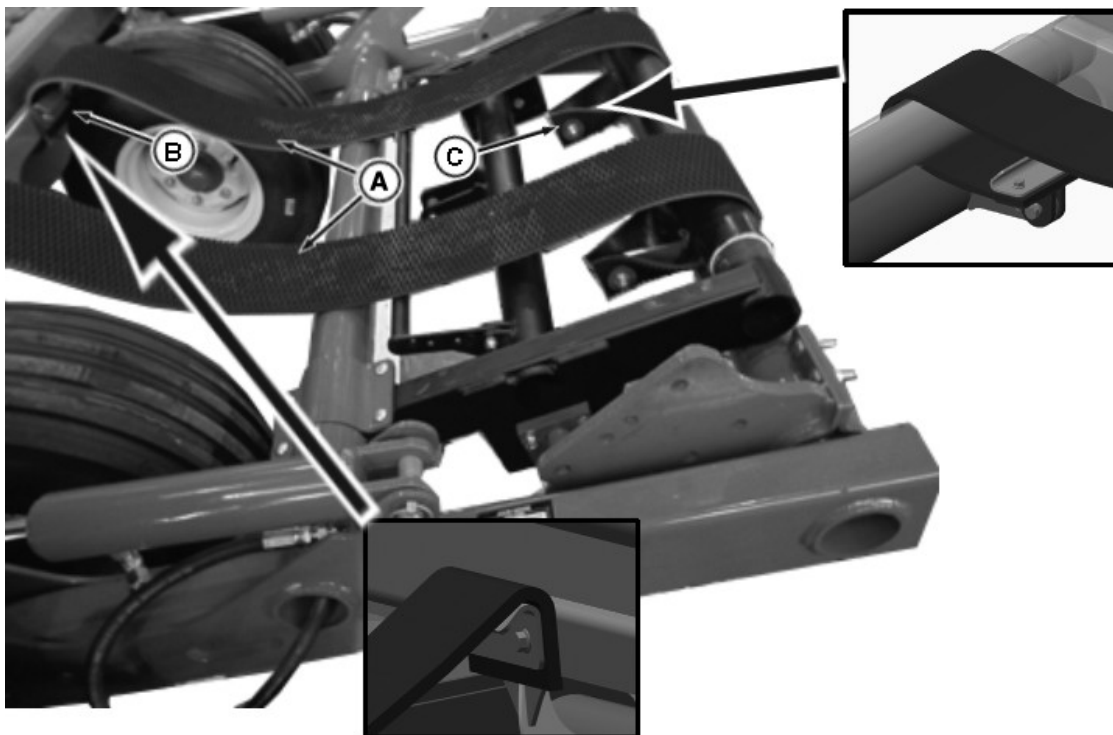


PY40921—UN—23MAY17

A—Wheel Bolts (6)

Transfer Belt Routing

Route transfer belt on the accumulator frame as shown.



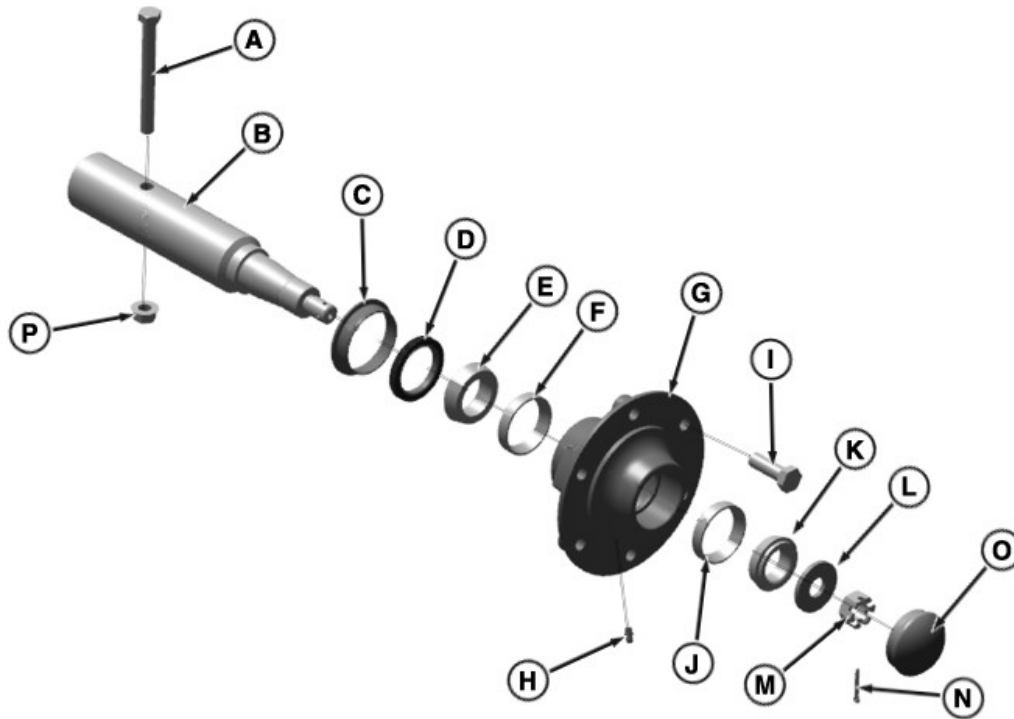
A—Transfer Belt
B—Rear Belt mounting

C—Front Belt Mounting

PY40954—UN—18MAY17

AL61114,00003E1-19-26FEB18

Inspect and Replace Baler Wheel Bearings 26 X 12 X 12 Tires



PY40956—UN—19MAY17

A—Cap Screw
 B—Spindle
 C—Bearing Seal
 D—Seal
 E—Inner Bearing Cone
 F—Inner Bearing Cup
 G—Wheel Hub
 H—Lubrication Fitting

I—Stud (6 used)
 J—Outer Bearing Cup
 K—Outer Bearing Cone
 L—Washer
 M—Castellated Nut
 N—Cotter Pin
 O—Cap
 P—Lock Nut

1. Remove wheel. (See Wheel Removal Recommended Procedure in Section 40)
2. Remove parts (C) to (O) from spindle (B) as shown.

3. Clean all parts in solvent and blow dry with compressed air. Inspect bearing cups, cones, and spindle. Replace any worn or damaged parts.

4. Install parts (C) to (O) in reverse order of removal using the following special instructions:

- Install new bearing cup (F) and cup (J) along with seal (C) if removed earlier.

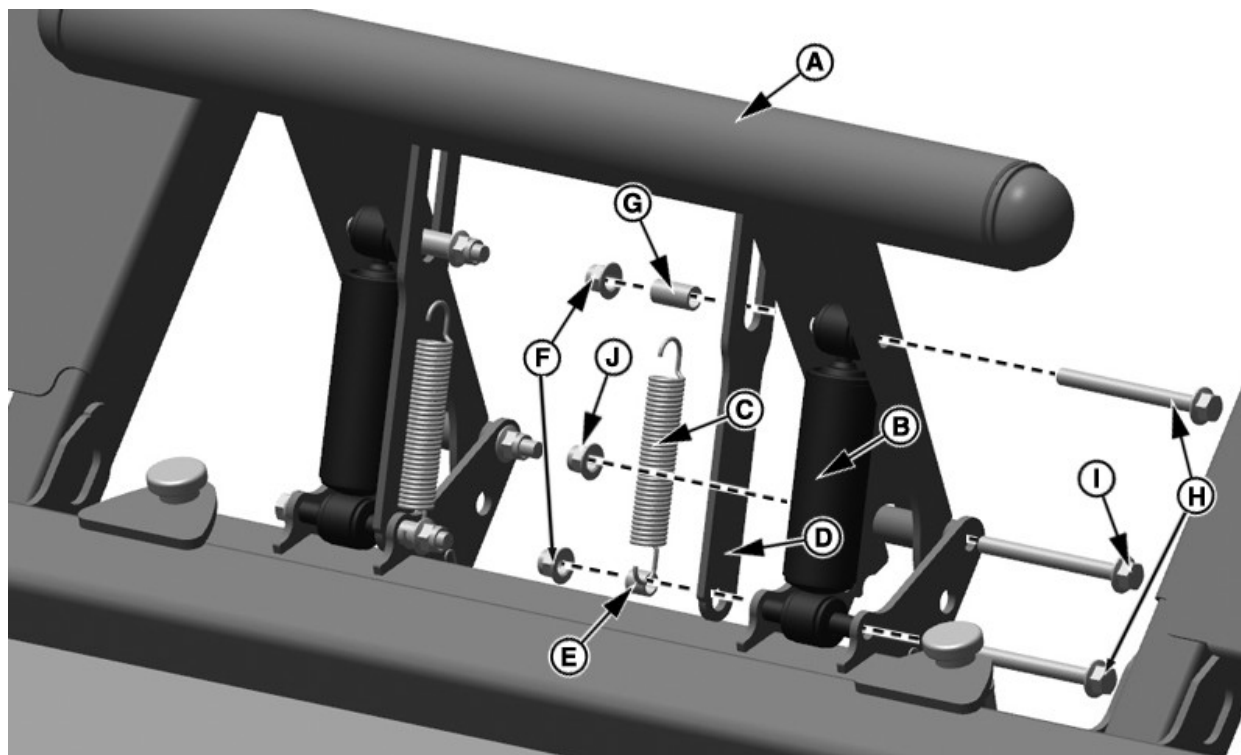
Press new cups into the hub (G) until tight against shoulders of hub bore using a driver kit.

- Pack bearing cone (E), cone (K), and cap (O) with a lithium base EP or an equivalent SAE multipurpose type grease, or wheel bearing grease.

- Apply a thin layer of grease to lips of seal (C).
- Put inner and outer bearing cone (E) and (K) into hub (G). Install bearing seal (C) along with seal (D) into the hub until flush with the hub surface using a driver kit.
- Install washer (L) and tighten castellated nut (M) to 102 N·m (75 lb·ft) while rotating the hub. Loosen castellated nut (M) and retighten to 61 N·m (45 lb·ft) while rotating hub.
 Back off the castellated nut (M) to align slot in nut with hole. Install new cotter pin (N) and bend both legs.
- Do not clamp cap screw (A). Back off the lock nut (P) so there is 2 mm of end play.

AL61114,00003E2-19-12MAR18

Damper Arm Assembly/Disassembly



PY39562—UN—04APR17

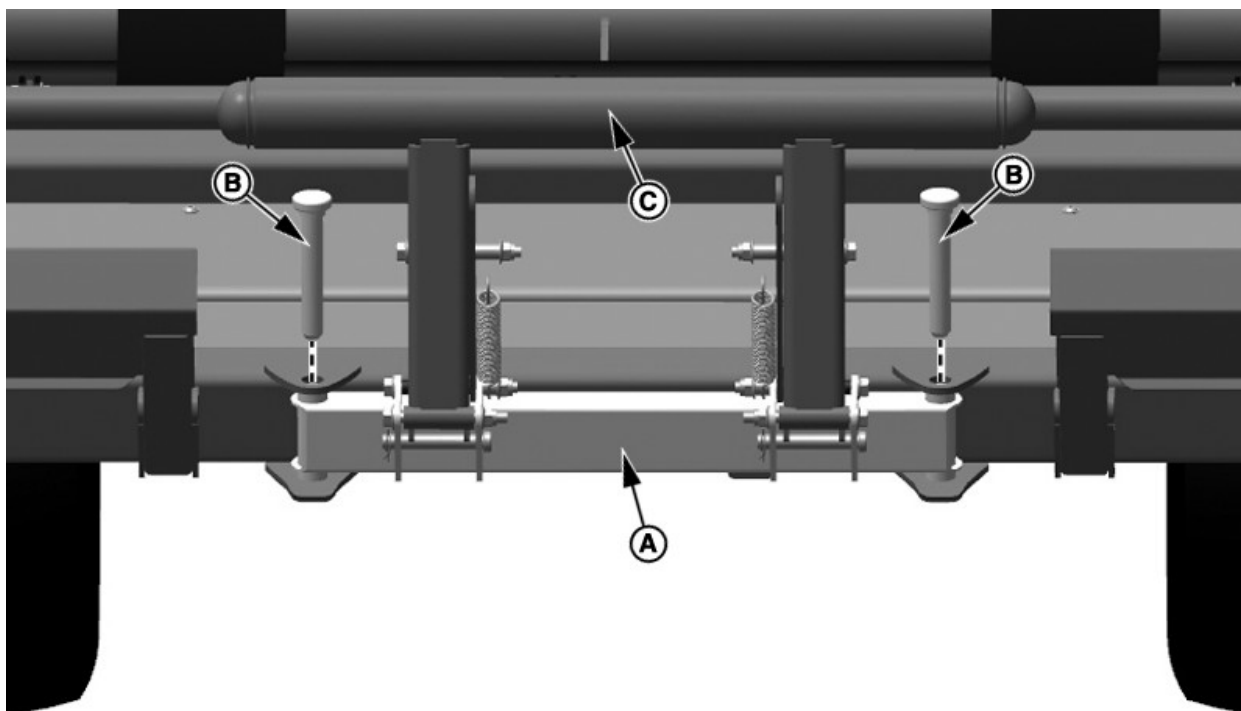
Damper Arm

A—Damper Arm
B—Shock Absorber
C—Spring
D—Stopper
E—Spacer

F—Nut
G—Spacer
H—Bolt
I—Bolt
J—Nut

1. Remove nut (F) from bolt (H).
2. Remove spring (C) from spacer (E) & (G).
3. Remove bushing (E), (G), and damper arm stopper (D) from bolt (H).

4. Support damper arm (A) while loosening the damper arm shock absorber bolts.
5. Remove cylinder (B) by removing two bolts (H).
6. Remove nut (J) and bolt (I) from the damper arm bracket and separate the damper arm (A) from the damper arm bracket.



Damper Arm Bracket

PY39561—UN—04APR17

A—Bracket, Damper Arm

B—Pin

7. Remove damper arm bracket (A) by removing the two pins (B) with proper support.

NOTE: Do not operate accumulator without the damper arm installed. It can result in net damage to the bale.

IMPORTANT: Operating the machine with only one pin in place and dumping the cart can damage the damper arm. Always ensure that both pins are properly installed after servicing net wrap or other areas.

HL70592,0000B2D-19-15AUG19

Calibrate Gate Position Sensor (Premium/R Spec ISOBUS Machines ONLY)



E64641—UN—11MAY12

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



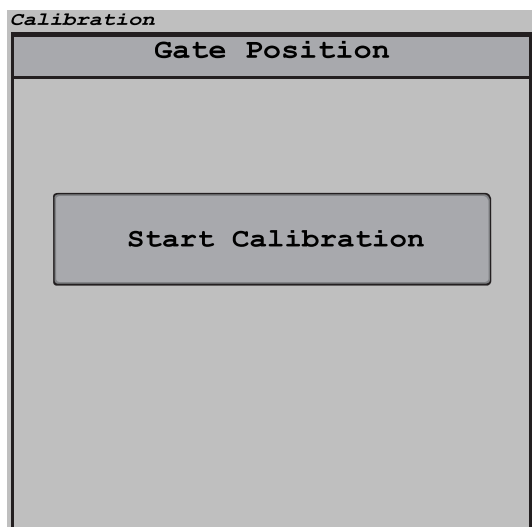
E64646—UN—11MAY12

2. Select Calibration softkey.



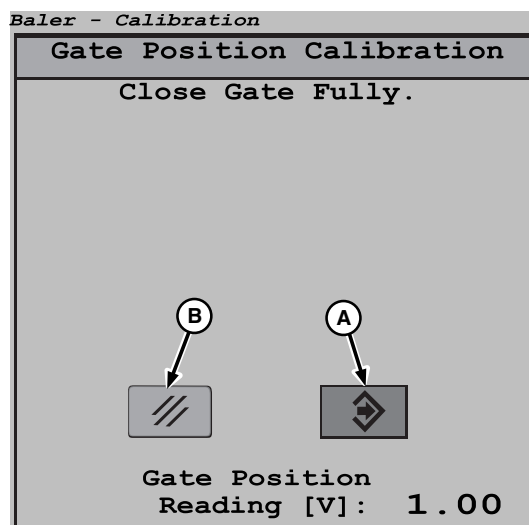
E66969—UN—09AUG12

3. Select Calibrate Gate Position Sensor softkey.



E67533—UN—27AUG12

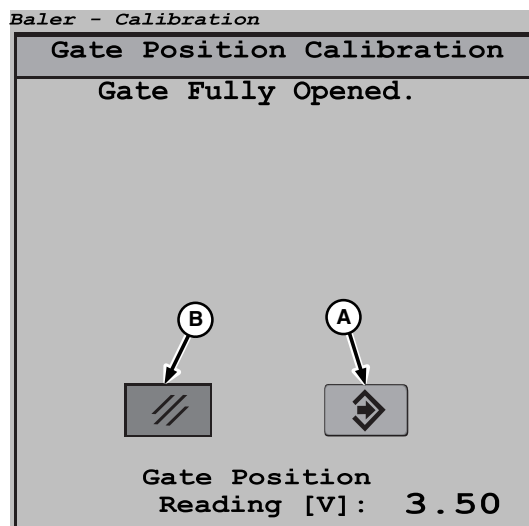
4. Select Start Calibration on the monitor.



E67330—UN—16AUG12

A—Task Completion Box
B—Cancel Calibration Box

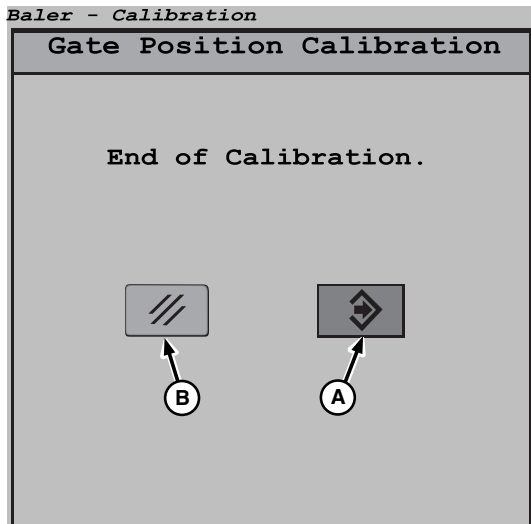
5. Using the tractor SCV, close rear gate fully. Select task completion box (A) or cancel calibration box (B).



E67331—UN—16AUG12

A—Task Completion Box
B—Cancel Calibration Box

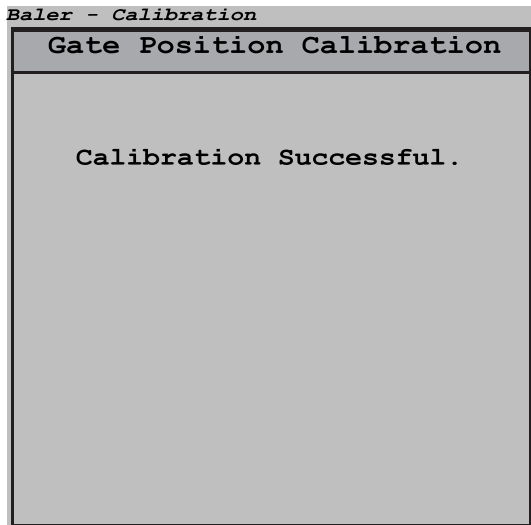
6. Using the tractor SCV, open gate fully. Select task completion box (A) or cancel calibration box (B).



E67332—UN—16AUG12

A—Task Completion Box
B—Cancel Calibration Box

7. End of calibration screen will be displayed on monitor. Select task completion box (A) or cancel calibration box (B).



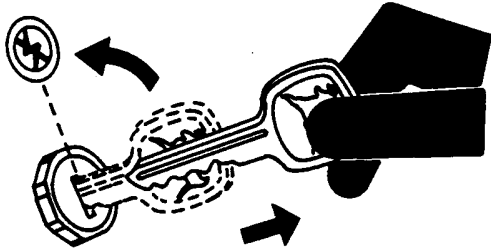
E67333—UN—16AUG12

8. Calibration Successful screen will be displayed on monitor.

RD91939,00006BE-19-11SEP18

Lubrication and Maintenance

Lubricating and Maintaining Machine Safely



TS230—UN—24MAY89

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 park brake and place transmission in Park, shut off engine and remove key.

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

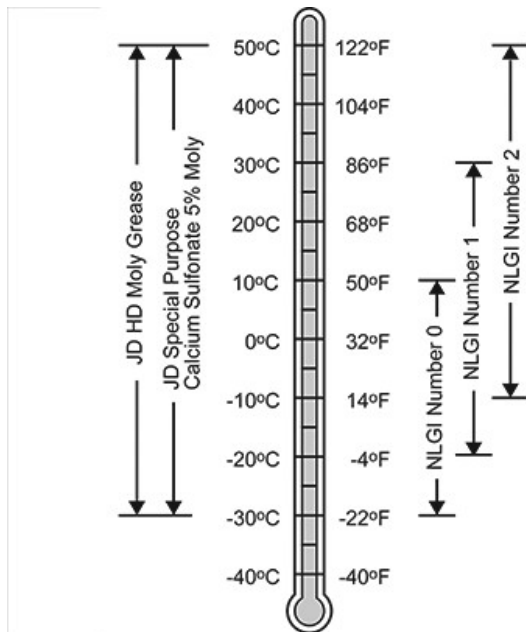
AL61114,00003E4-19-20FEB18

Service Intervals Chart

Item	10 Hours/Daily	50 Hours/Weekly	100 Hours/Monthly	1000 Hours/Annually	As Required
Check Bale Accumulator Tire Inflation	X				
Check Eject Chains	X				
Check Wing Chains	X				
Grease Transfer Arm		X			
Grease Cart Pivot			X		
Grease Bellcrank Pivot			X		
Adjust Slider Poly Blocks				X	
Oil Slider Chain				X	
Check Bale Accumulator Wheel torque					X
Check Slider Poly Blocks					X
Inspect Transfer Belts					X

AL61114,00003E5-19-20FEB18

Grease with Molybdenum Disulfide



RG30201—UN—08MAR18

Greases for Air Temperature Ranges

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

John Deere HD Moly Grease is preferred.

Also recommended for wet or extreme conditions:

JD Special Purpose Calcium Sulfonate 5% Moly Grease

Other greases may be used if they meet the following:

- NLGI Performance Classification GC-LB with 3% to 5% molybdenum disulfide
- ISO-L-X-BDHB 2 (per ISO 6743-9) or DIN KPF 2 N-10 (per DIN 51825) Lithium Complex, Non-Synthetic Base Oil (100 to 220 mm²/s @40°C) with 3% to 5% molybdenum disulfide

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

DX, GRE44-19-13JAN18

Alternative and Synthetic Lubricants

Conditions in certain geographical areas may require lubricant recommendations different from those printed in this manual.

Some John Deere brand coolants and lubricants may not be available in your location.

Consult your John Deere dealer to obtain information and recommendations.

Synthetic lubricants may be used if they meet the performance requirements as shown in this manual.

The temperature limits and service intervals shown in this manual apply to John Deere branded fluids or fluids that have been tested and/or approved for use in John Deere equipment.

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

DX, ALTER-19-13JAN18

Keep Service Area Clean



TS218—UN—23AUG88

CAUTION: 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.

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.

Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

1N4,610P,A1-19-17MAY06

Perform Lubrication and Maintenance

⚠ CAUTION: Do not clean, lubricate, or adjust machine while it is in motion.

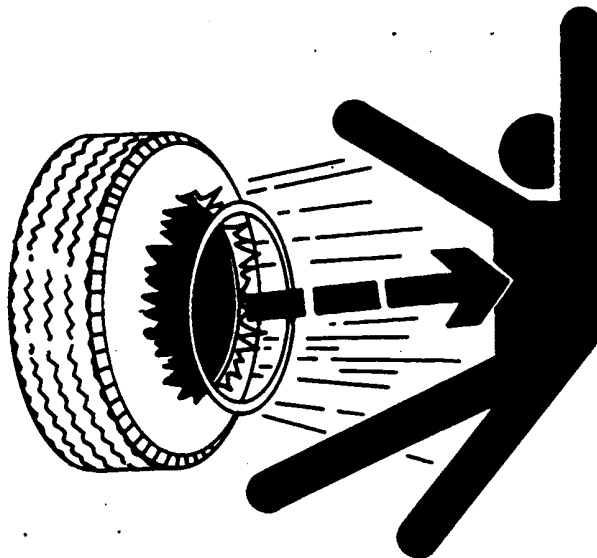
IMPORTANT: The maintenance intervals recommended are based on normal conditions. Severe or unusual conditions may require more frequent lubrication.

Perform each lubrication and service illustrated in this section at the beginning of the season and at the end of the season.

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

AG,OUO6017,1311-19-24SEP99

Service Tires Safely



TS211—UN—15APR13

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

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

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.

Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

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

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

DX,RIM1-19-27OCT08

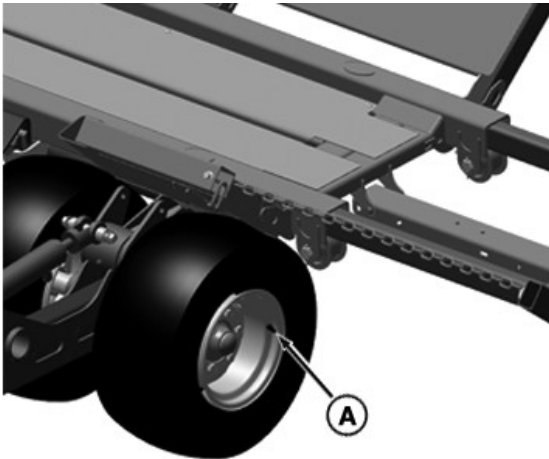
Fire Prevention

Keep foreign material (crop, chaff, twine, etc.) from building up on the machine near potentially hot areas, such as bearings. Remove this buildup as part of the regular service operations.

Avoid high-pressure power-washing adjacent to the bearings to prevent damaging seals.

AL61114,00003E6-19-22FEB18

Check Tire Inflation Pressure



A—Valve Stem

PY30579—UN—12OCT16

Maintain required tire Inflation pressure.

Specification

Tire Inflation—Pressure. 30 psi (207 kPa) (2.1 bar)

NOTE: For heavier bales or on the steep side hill slopes, maintain a tire inflation pressure of 40 psi (275.79 kPa) (2.75 bar).

AL61114,00003E7-19-20FEB18

Adjust Ejection Chains



PY45199—UN—11OCT18

A—Transfer Arm
X—Angle

1. Locate chain from the spring to the transfer arm

IMPORTANT: Set proper tongue height before adjusting the chains. Anytime the tongue height is changed, the chain adjustment procedure must be redone.

NOTE: Machines are sent from the factory with the transfer arm chain attached at the fourth link. This is an initial setting and needs to be verified during transfer arm adjustment.

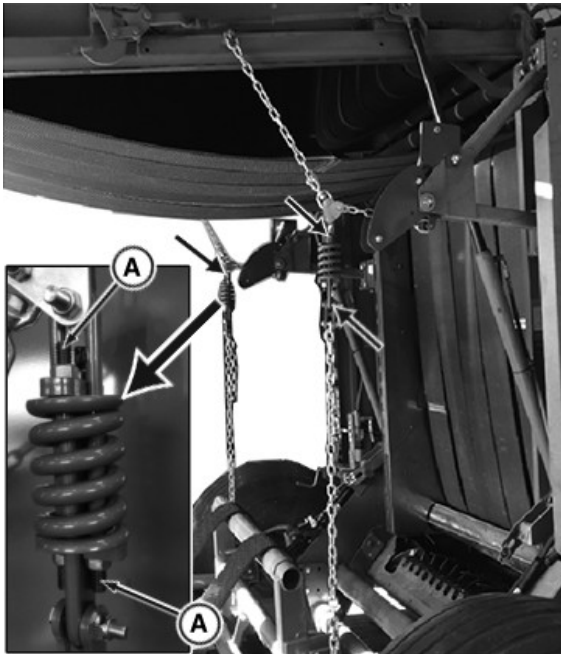
- a. Fully open and lock baler gate, observe the transfer arm (A) angle relative to level ground. Override switch will need to be depressed since no bale is in the chamber.

CAUTION: While working inside or around the baler with an open gate, the gate lock lever must be moved to locked position. Use this safety feature any time gate is open. Close gate any time the baler must be left unattended.

- b. Manually push transfer arm (A) to angle X (between 60° and 75°) as shown in the picture.
- c. Set one chain to be tight in this position, count links, and set opposite side chain to that length. Setting is changed at the H-Link lower bolt

- d. Secure any excess chain with zip ties,

NOTE: Do not cut off excess links.



PY40991—UN—15JUN17

A—Compression Spring Bolts

- e. Check chain tension with the transfer arm in the raised position and adjust loosest chain with compression spring bolts (adjust bolts equally on each side of spring). Ensure that both chains are equally tensioned in gate fully raised position.

CAUTION: DO NOT enter front side of the transfer arm area with both the lower ejection chains disconnected from the transfer arm.

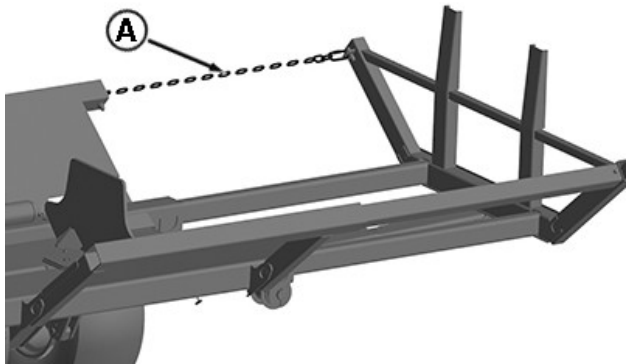
2. Close the gate and confirm that transfer arm is down in home position. If transfer arm is not in home position confirm proper setting for upper and lower chains or check for obstructions.

Some amount of slack is seen in the chains with the transfer arm in the home position. However it will not affect the performance as the upper chain idlers take up slack during the gate open and close cycle.

IMPORTANT: If transfer arm is not in the home position, the bale sensing switch gives a false reading and can result in a bale being stuck in the front of the transfer arm.

RD91939,00006BD-19-26OCT18

Check Wing Chains



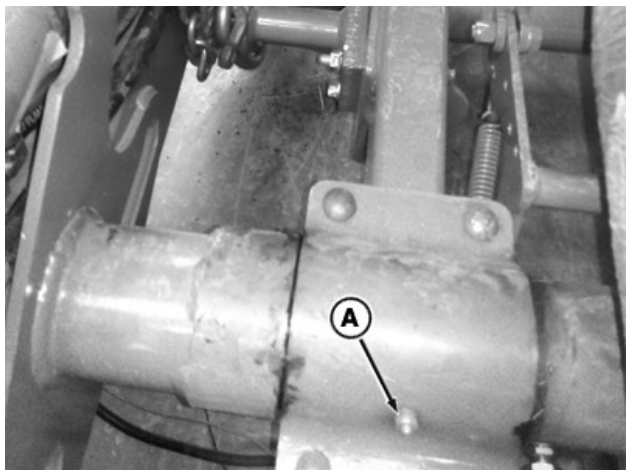
PY30960—UN—29OCT18

A—Chain

Check chains (A) for any damage or wear.

AL61114,00003E9-19-20FEB18

Grease Transfer Arm



PY30591—UN—20OCT16

A—Grease point

Apply grease to Transfer Arm.

AL61114,00003EA-19-20FEB18

Grease Overcenter Pivot



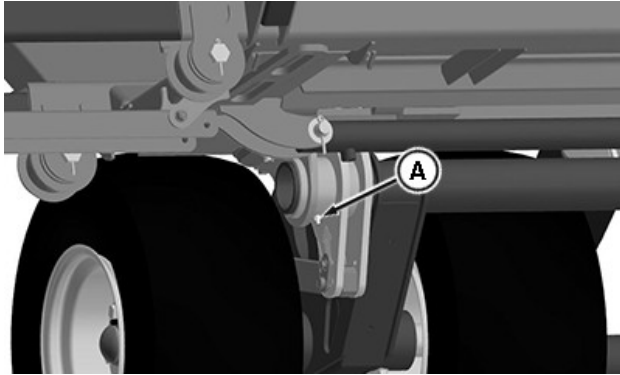
PY30968—UN—15NOV16

A—Grease point

Apply grease to overcenter pivots (A).

AL61114,00003EB-19-20FEB18

Grease Cart Pivot



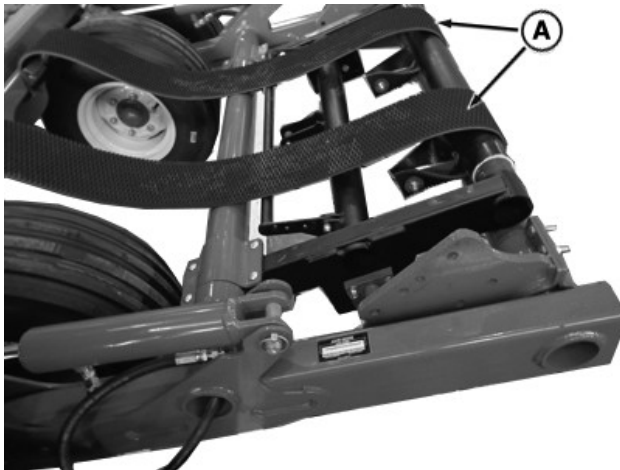
PY30957—UN—15NOV16

A—Grease Point

Apply grease to cart pivot points (A).

AL61114,00003EC-19-20FEB18

Inspect Transfer Belts



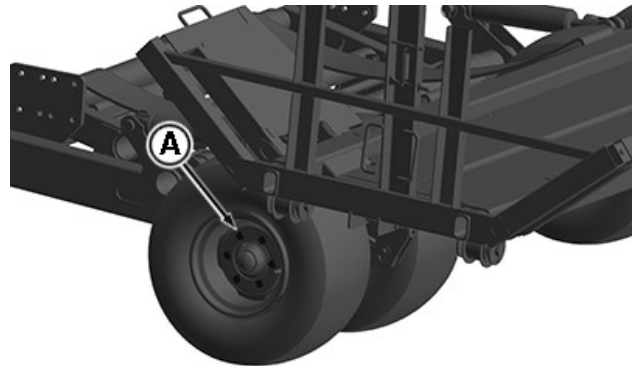
PY30598—UN—20OCT16

A—Belts

Inspect transfer arm belts (A) for any rips, tears, or damages.

AL61114,00003ED-19-20FEB18

Bale Accumulator Wheel Torque



PY30966—UN—29OCT18

A—Wheel Bolt (6 Used on each wheel)

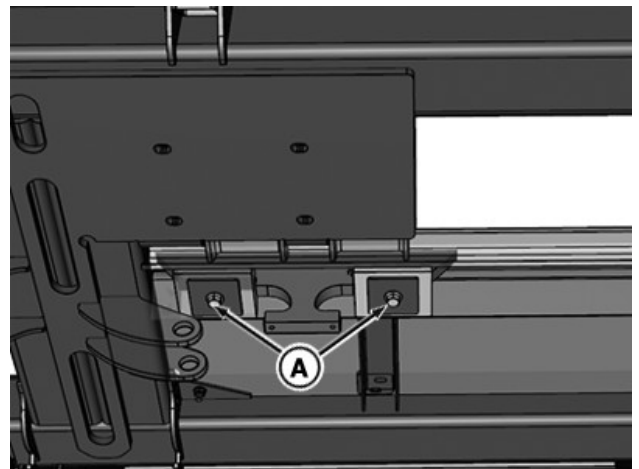
Wheel bolts (A) must be tightened to specification.

Specification

Bolt (A)—Torque. 176 N·m (130 lb·ft)

AL61114,00003EE-19-20FEB18

Check Slider Poly Block



PY30596—UN—20OCT16

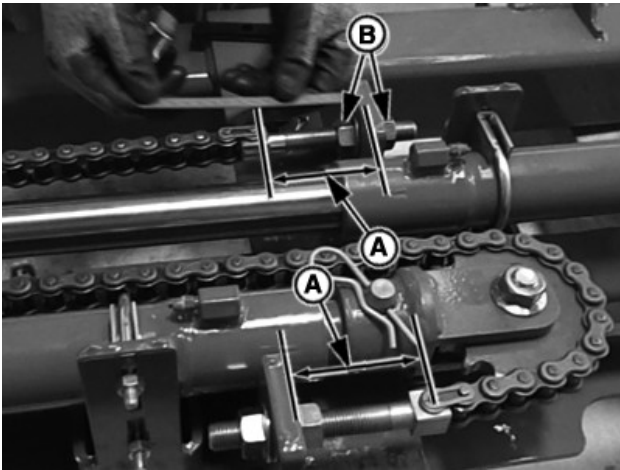
View from Below the Cart

A—Screw

Slider must be free to move but without excessive play in the joint near screw (A).

AL61114,00003EF-19-05NOV18

Check Slider Chain



PY30600—UN—16MAR17

A—Bolt End
B—Nut

Adjust chain tension using nuts (B). Chain must be set to have 1" side to side slack at the center of the accumulator.

NOTE: Maintain dimension (A):

for A420R = 55 mm

for A520R = 75 mm

HL70592,00009D7-19-05NOV18

Troubleshooting

Diagnosing Bale Accumulator

Symptom	Problem	Solution
Gate does not fully open - Eject Bale	Bale sensing arm switch not activating.	Check sensing arm switch air gap. Check wiring harness, pins, and connector.
	Gate position switch malfunction.	Check gate position switch mounting and linkage. Check wiring harness, pins, and connector. Adjust gate position sensor on cam plate.
	Bale stuck in chamber.	To polish side sheets of baler, run several bales at lower density . Refer to the baler operator's manual for additional troubleshooting guidelines.
	Slider switch malfunction / adjusted	Check Slider switch for any damage. Replace as necessary.
		Adjust Slider switch properly.
	Bale sensing arm switch not activating.	Use override switch to cycle the empty baler for setting and diagnostics.
Gate does not fully open - Empty Baler	Failed gate pause valve.	Check relay, connectors, pins, and wiring harness to the gate pause valve. Check valve coil. Clean and inspect cartridge valve.
Gate fully opens without the bale on the transfer arm	No power to accumulator harness.	Check accumulator harness junctions at the baler tongue and baler wheeldrop. Assure solid connection. Check accumulator harness is plugged properly into the tractor convenience outlet.
	Override switch always activated.	Inspect the override switch for physical damage.
		Secure override switch in cab so it cannot be pinched, crushed, or activated during normal operation.
		Check relay, connectors, pins, and wiring harness to the gate pause valve.
	Bale sensing arm switch not adjusted properly.	Check sensor to sensing arm adjustment with no bale on the transfer arm. Check sensing arm for damage or deformation.
		Replace if damaged or broken.
	Bale sensing arm spring failed.	Replace if damaged or broken.
	Debris under the transfer arm holding sensing arm down.	Clear debris with gate open, close gate and verify that the transfer arm is in the home position.

Symptom	Problem	Solution
Bale does not transfer to cart	Transfer chain broken.	Check chains, connecting links, and pins for proper operation and good condition. Replace any that are failed or worn.
	Gate speed too slow.	Increase SCV flow on the circuit that runs the gate. See round baler Operator's Manual for adjustment procedure.
	Transfer arm chains improperly adjusted.	Refer to Preparing Accumulator section for the proper chain setting.
	Baler to the accumulator angle too great. Baler is positioned in ditch or bottom of the steep hill so a significant "V" is made between the two.	Move baler out of ditch so the accumulator sits more level with respect to the baler attitude.
	Transfer belt failed.	Inspect and replace if belt is torn, stretched, or otherwise damaged.
	Tractor-baler on too great of a downhill.	Move baler to a shallower hill when ejecting or orient the baler so more of the slope is side-to-side rather than front-to-back.
		Change damper arm setting for light bales. See Operating Bale Accumulator section.

Troubleshooting

Symptom	Problem	Solution
	Transfer arm plastic tube does not rotate under belts during transfer.	Check tube for damage or cracks. Check for debris buildup between plastic and steel tube. Wash debris out if necessary with compressed air or high-pressure water - DO NOT LUBRICATE with oil or grease.
	Damper Arm not set properly for light bales.	Refer adjust damper arm section in operating machine section for proper setting.
	Bale behind the transfer arm.	Refer to Removing a Bale behind the Transfer Arm within Operating Bale Accumulator section.
Slider direction not automatically changing	Alternating switch problem.	Check alternating switch for damage.
		Raise gate fully to check alternating switch adjustment to the gate tab.
	Slider switch malfunction.	Move slider to each end of travel and check slider switch adjustment.
		Check flag on cylinder sprocket for bending or being missing.
Bale does not slide on cart	Oversize bale.	Reduce bale size (Refer to your Round Baler Operator's Manual).
	Belts catch bale with gate fully open.	Install auxiliary take-up arm roller. Adjust baler tongue height. Reduce bale size. (Refer to your Round Baler Operator's Manual). Verify auxiliary take-up roller installed. Move auxiliary take-up roller to rear hole position in arm. (See section 15-7). Adjust baler tongue height. Reduce bale size. (Refer to your Round Baler Operator's Manual).
	Slider paddle binding.	Check poly V - blocks and adjust to prevent binding in the channel.
		Check slider chain adjustment. See Lubrication and Maintenance section.
	Bale catching transfer arm chains.	Check downhill stop bar for broken springs, pivots, or bending.
		Check A-arms and transfer chain adjustment.
		Check transfer arm chains for damage or yielding.
Belts cross and flip on rolls with gate opened and PTO engaged	Not enough belt slack.	To allow more belt slack, move auxiliary take-up arm roller to front position.
	Belts sticky and grabbing drive rolls.	Disengage PTO before ejecting bale. Apply oil dry or talcum powder to round baler drive rolls.
	Incorrect set up for bale size.	Adjust auxiliary take up arms according to the desired bale size.

Symptom	Problem	Solution
Net damage to bales when sliding	Belts catch the bale with the gate fully open.	Install auxiliary take-up arm roller. Adjust baler tongue height. Reduce bale size. (Refer to your Round Baler Operator's Manual) Verify auxiliary take-up roller installed. Move auxiliary take-up roller to rear hole position in arm. (See section 15-7). Adjust baler tongue height. Reduce bale size. (Refer to your Round Baler Operator's Manual).
	Net catching on frame tubes.	Check cart frame and cradle for rough spots, burrs, weld spatter, or anything else that may catch net. Grind or file areas smooth to allow net to pass freely.
	Bale caught by slider paddle.	Check slider switches & adjust if necessary.

Troubleshooting

Symptom	Problem	Solution
		Check slider hydraulics.
		Check slider plate for bent up edges or sharp corners.
		Check slider chain adjustment. See Lubrication and Maintenance section.
	Bale catching cart frame transition.	Check downhill stop bar for broken springs, pivots, or bending.
	Oversize bale.	Check A-arms and transfer chain adjustment.
		Reduce bale size.
Net damage to bale when dumping cart	Dumping bales while turning quickly.	Calibrate bale size sensor on baler.
		Reduce speed during dumping while in a sharp turn.
		Verify auxiliary take-up roller installed.
		Move auxiliary take-up roller to rear hole position in arm. See section 15-7.
		Adjust baler tongue height.
		Reduce bale size (Refer to baler OM).
	Soft sided bales.	Dump bales when traveling straight instead.
		Turn less aggressively while dumping bales on the go.
		Refer to Round Baler Operator's Manual for proper windrow preparation and baler weaving techniques to produce hard sided bales.
	Net catching on frame tubes.	Check cart frame and cradle for rough spots, burrs, weld spatter, or anything else that may catch net. Grind or file areas smooth to allow net to pass freely.
Cart does not dump bales	Dump cylinders out of phase.	Operate Tractor SCV for the cart dump in the "raise" direction for 60 seconds to rephase the cylinders and force air out of the circuit.
	Dump linkage binding.	Lubricate toggle pivots. See Lubrication and Maintenance section.
		Check drag links for binding or failed pins.
Cart Does not Raise	Needle valve setting incorrect.	Adjust needle valve on the baler tongue to control the dump speed. Turn counterclockwise to increase speed, clockwise to decrease speed.
		Adjust tractor SCV flow to control raise speed of bale cart. Higher flow increases speed of raise. Refer to your Tractor Operator's Manual.
	Needle valve incorrectly plumbed to dump cylinders.	Verify hose routing a hookup. Refer to the Pre-Delivery Instructions.
	Needle valve clogged with debris.	Remove and clean needle valve or replace as necessary.

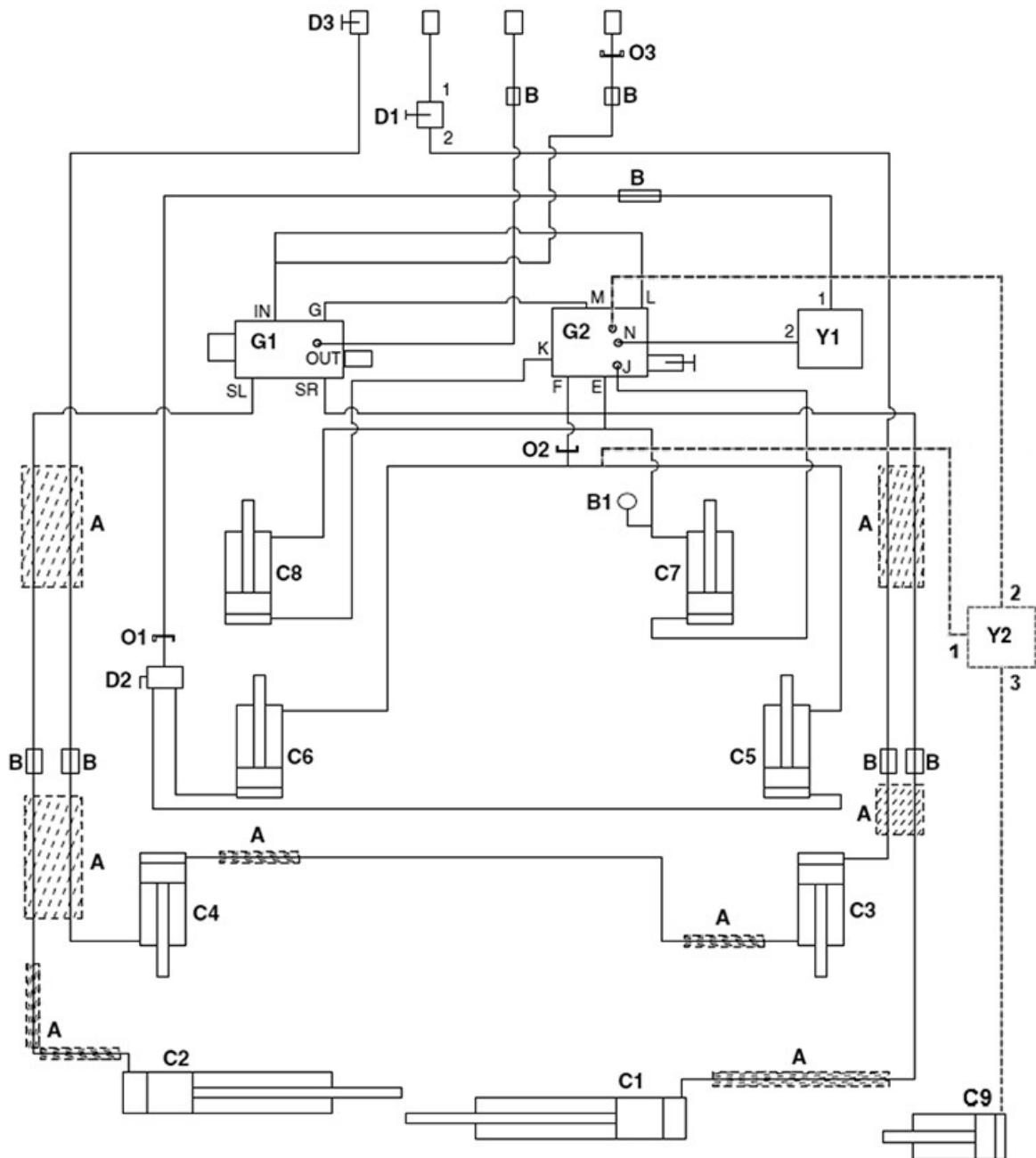
Symptom	Problem	Solution
Slider moves during baling or gate close	Alternating switch problem.	Check alternating switch mounting and wiring harness.
		Check adjustment of alternating switch contact plate on gate.
	Slider switch problem.	Check slider switches mounting and wiring harness/connections.
		To contact plate at both full-left and full-right, check adjustment of slider switch .
Transfer arm does not return home	Debris under the transfer arm holding transfer arm up.	Clear debris with gate open, close gate and verify that the transfer arm is in the initial position.
	Return spring broken.	Inspect and replace springs as necessary.
	Pivots inadequately lubricated.	Pump full of grease. See lubrication and maintenance sections.
		If necessary, disassemble the clamshell and apply

Troubleshooting

Symptom	Problem	Solution
		a thick layer of Moly grease on tube and clamshell halves, reassemble.
Bale lodges between the transfer arm and bale chamber	Bale diameter too large.	Reduce bale size.
	Baler hitch not adjusted properly.	Refer to your Round Baler Operator's Manual.
	Transfer arm chains improperly adjusted.	Check for the proper chain setting.
	Bale sensing arm switch not adjusted properly.	Check sensor to sensing arm adjustment with no bale on the transfer arm.
		Check sensing arm for damage or deformation.
Wings difficult to extend or retract	Bent wing frame tubes.	Check straightness of upper-rear telescoping tube. Straighten or replace as necessary.
		Check straightness of the wing carrier tubes. Straighten or replace if necessary.
	Failed wing tube carrier bearings.	Inspect bearings and replace as necessary.
	Tubes filled with debris.	Remove wing and clean tube with compressed air or high-pressure water. DO NOT lubricate with oil.
	Wing lock linkage bent or binding.	Inspect wing lock linkage for wear or damage. Repair or replace components as necessary.
		Inspect wing latch mechanism.

HL70592,0000859-19-11SEP18

Baler with Accumulator Hydraulic Diagram (MegaWide™ Plus Pickup)



P18622—UN—14AUG19

A—Protective Hose Covering

B—Union Fitting (7 Qty)

B1—Pressure Gauge

C1—Right-hand Accumulator Slider Cylinder

C2—Left-hand Accumulator Slider Cylinder

C3—Right-hand Accumulator Dump Cylinder

C4—Left-hand Accumulator Dump Cylinder

C5—Right-hand Baler Gate Cylinder

C6—Left-hand Baler Gate Cylinder

C7—Right-hand Baler Tension Cylinder

C8—Left-hand Baler Tension Cylinder

C9—3rd Drive Roll Clutch Cylinder (HC² only)

D1—Needle Valve

D2—Gate Lock Valve

D3—Cart Lock Valve

G1—Slider & Gate Valve

G2—Baler Manifold Valve

O1—Gate Lock Valve Orifice

O2—Manifold Valve Orifice

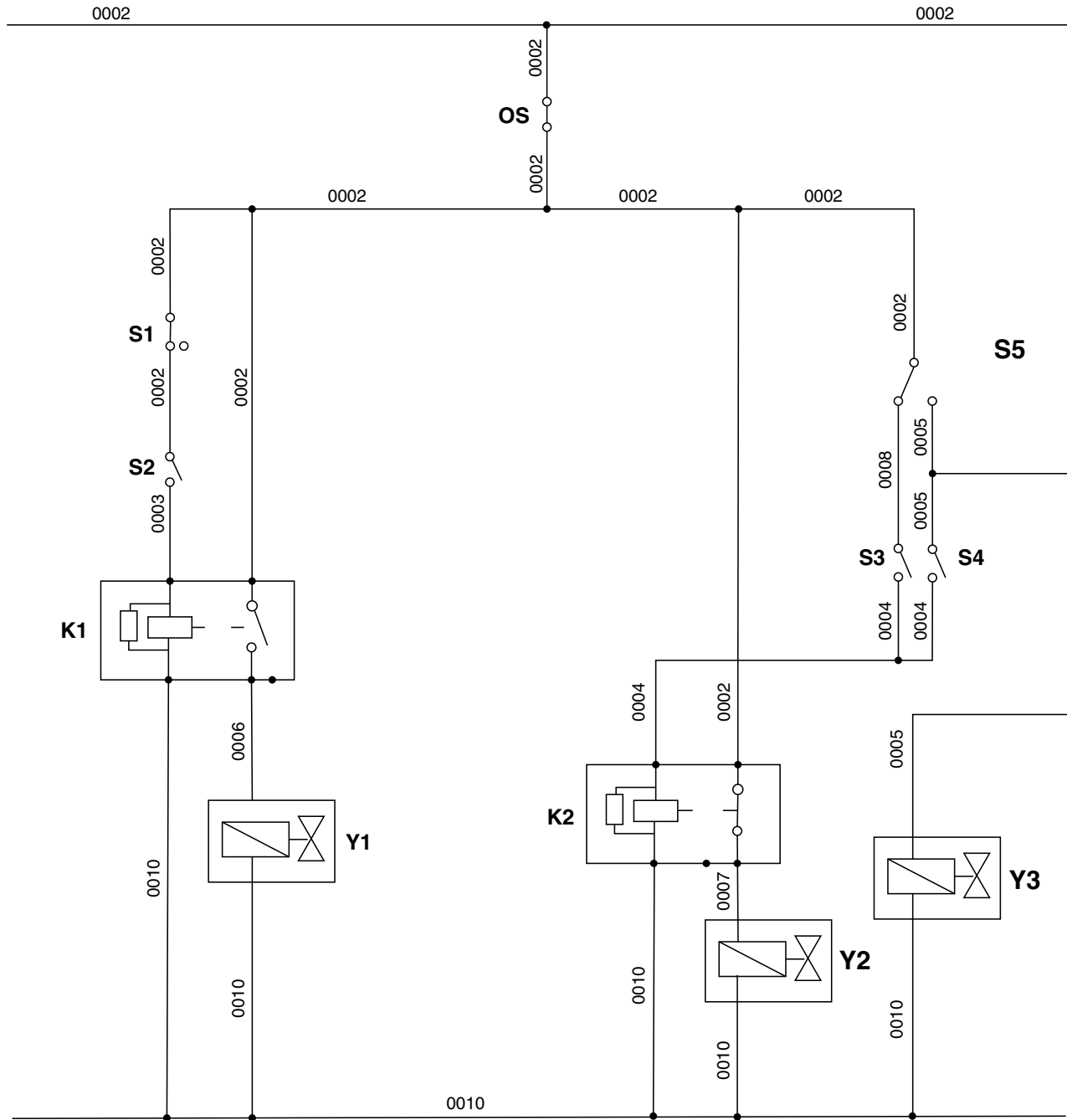
O3—Orifice

Y1—Ejection Valve

Y2—3rd Drive Roll Valve (HC² only)

HL70592,0000B20-19-15AUG19

Electrical Wiring Harness Diagram



APY11545—UN—08OCT18

OS—Override Switch
 S1—Gate Switch, Normally Closed
 S2—Ejection Switch, Normally Open
 S3—Left-hand Slider Switch, Normally Open
 S4—Right-hand Slider Switch, Normally Open
 S5—Dimmer Switch

K1—Ejection Relay
 K2—Gate Relay
 Y1—Ejection Solenoid
 Y2—Gate Solenoid
 Y3—Slider Solenoid

RD91939,00006C9-19-08OCT18

Storage

Storing Bale Accumulator after End of Season

1. Move bale accumulator to a dry place. If the bale accumulator must be stored outside, belt life can be prolonged by covering or removing belts to protect from sunlight and ozone exposure.
2. Clean bale accumulator. Trash and dirt draw moisture and cause rust.
3. Apply a few drops of oil to all pivot points and linkages.
4. Thoroughly lubricate the bale accumulator. (See Lubrication and Maintenance section.)
5. Paint all parts from which paint has been worn.
6. Clean all roller chains by washing them with diesel fuel. Dry well and coat with a heavy oil.
7. To take off load from the tires, put blocking under the bale accumulator frame. DO NOT DEFLATE TIRES. If exposed, put cover over tires to protect them from light, grease, and oil.
8. List the replacement parts that are needed and order them.

AL61114,000043B-19-12MAR18

Reusing Stored Bale Accumulator at Beginning of Season

1. Lubricate complete machine. (See Lubrication and Maintenance section.)
2. Check tires for correct air pressure.
3. Tighten all hardware.
4. Review operator's manual and check adjustments.
5. Hook baler and accumulator hydraulics to tractor and pressurize cart dump circuit in the raise direction to rephase cylinders after off-season.

Operate Tractor SCV for the cart dump in the RAISE direction for 60 seconds to rephase the cylinders.
6. Cycle all functions of baler and accumulator several times to ensure proper function before going to the field. Hold pressure on end of stroke for all functions for several seconds to bleed any air from the system.

AL61114,000043C-19-12MAR18

Specifications

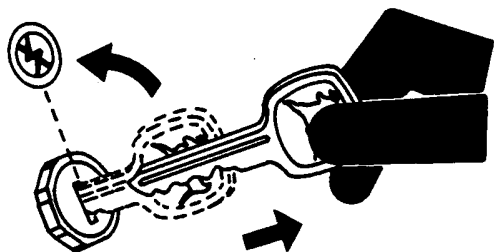
Bale Accumulator Specifications

Specification	Model	
Model Identification	A420R {4 ft (1.21 m)}	A520R {5 ft (1.52 m)}
Baler Compatibility	467, 468SS, 468, 469, 469P, 469SS models	567, 568SS, 568, 569, 569P, 569SS models
	MegaWide™ pickup, 21.5L x 16.1 Tires, A-Arms required	
Tractor Compatibility	For 4' Baler 75 hp Tractor / 5' Baler 85 hp Tractor, 3 rear SCV	
Bale Handling	23 in (584.2 mm) to 72 in (1828.8 mm) bales	
Bale Weight	2500 lb max (1133.98 kg)	
Spacing between bales (Max)	228 mm (8.97 in)	
Dimensions		
Length (accumulator + baler from hitch)	5500 mm (216.53 in)	
Height	1250 mm (49.21 in)	
Width (Working)	4.18 m (13.71 ft)	5.4 m (17.71 ft)
Width (Transport)	2.93 m (9.61 ft)	3.35 m (10.99 ft)
Ground Clearance	250 mm (9.84 in)	
Weight Capacities		
Cart weight capacity	6000 lb (2500 lb max on wing); 2721.55 kg (1133.98 kg max on wing)	
Weight (Shipping)	1025 kg (2259.73 lb)	1170 kg (2579.40 lb)
Weight (Fully loaded)	1135 kg (2502.24 lb)	1229 kg (2709.48 lb)
Electrical System		
Electrical System Voltage	12 VDC	
Hydraulic System		
Hydraulic flow (Minimum)	22.7-24.6 L/min (5.99-6.49 gal/min)	
Hydraulic Pressure (Max)	2750 psi (193.34 kg/cm2)	
Operational Hydraulic Temperature Range	0 C - 100 C (32 F - 212 F)	
Minimal Storage Temperature	- 40 C (-40 F)	
Wheel and Tires		
Tires	12 ply; 26 x 12 x 12; low profile agriculture tire	
Tire Pressure (operational)	30 psi (2.10 kg/cm2)	

MegaWide is a trademark of Deere & Company

RD91939,00006E5-19-29OCT18

Keep Machines Secure



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.

DX,SECURE2-19-18NOV03

TS230—UN—24MAY89

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

Keep Proof of Ownership



TS1680—UN—09DEC03

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

Record Accumulator Serial Number

The serial number plate (A) is on the left-hand side of the accumulator main frame. Record serial number and purchase date.



PY30568—UN—19MAY17

Bale Accumulator Serial Number Plate

A—Serial Number Plate

Serial Number												
S/N:												

Purchase Date	
Date:	

AL61114,00003B3-19-20FEB18

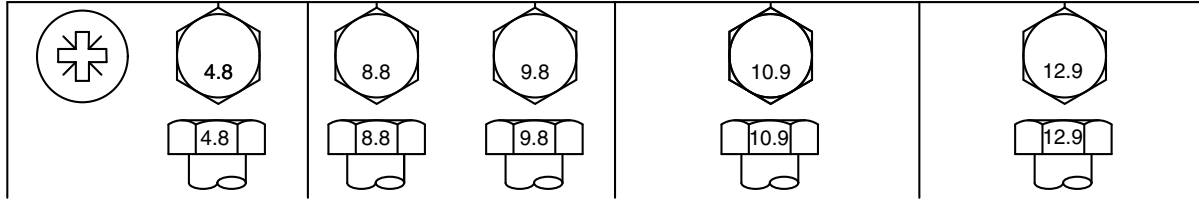
Serial Number Plate Description

Position	Use	Example
1 - 3	Factory Code	1P0
4 - 8	Model	A520R
9	Configuration	X
10	Year of Manufacture	H
11	Model Year	H
12 - 17	Sequential Manufacturing Number	000001



P18451—UN—19SEP18
RD91939,00006E7-19-09NOV18

Metric Bolt and Screw Torque Values



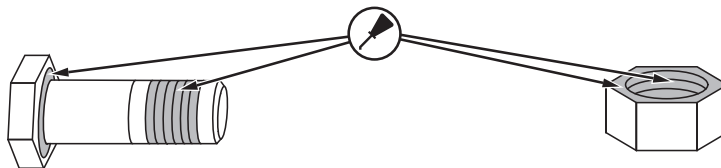
TS1742—UN—31MAY18

Bolt or Screw Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Hex Head ^a		Flange Head ^b		Hex Head ^a		Flange Head ^b		Hex Head ^a		Flange Head ^b		Hex Head ^a		Flange Head ^b	
	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in
M6	3.6	31.9	3.9	34.5	6.7	59.3	7.3	64.6	9.8	86.7	10.8	95.6	11.5	102	12.6	112
									N·m	lb·ft	N·m	lb·ft	N·m	lb·ft	N·m	lb·ft
M8	8.6	76.1	9.4	83.2	16.2	143	17.6	156	23.8	17.6	25.9	19.1	27.8	20.5	30.3	22.3
			N·m	lb·ft	N·m	lb·ft	N·m	lb·ft								
M10	16.9	150	18.4	13.6	31.9	23.5	34.7	25.6	46.8	34.5	51	37.6	55	40.6	60	44.3
	N·m	lb·ft														
M12	—	—	—	—	55	40.6	61	45	81	59.7	89	65.6	95	70.1	105	77.4
M14	—	—	—	—	87	64.2	96	70.8	128	94.4	141	104	150	111	165	122
M16	—	—	—	—	135	99.6	149	110	198	146	219	162	232	171	257	190
M18	—	—	—	—	193	142	214	158	275	203	304	224	322	245	356	263
M20	—	—	—	—	272	201	301	222	387	285	428	316	453	334	501	370
M22	—	—	—	—	365	263	405	299	520	384	576	425	608	448	674	497
M24	—	—	—	—	468	345	518	382	666	491	738	544	780	575	864	637
M27	—	—	—	—	683	504	758	559	973	718	1080	797	1139	840	1263	932
M30	—	—	—	—	932	687	1029	759	1327	979	1466	1081	1553	1145	1715	1265
M33	—	—	—	—	1258	928	1398	1031	1788	1319	1986	1465	2092	1543	2324	1714
M36	—	—	—	—	1617	1193	1789	1319	2303	1699	2548	1879	2695	1988	2982	2199

The nominal torque values listed are for general use only with the assumed wrenching accuracy of 20%, such as a manual torque wrench. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application.

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 that fastener threads are clean.
- Apply a thin coat of Hy-Gard™ or equivalent oil under the head and on the threads of the fastener, as shown in the following image.
- Be conservative with the amount of oil to reduce the potential for hydraulic lockup in blind holes due to excessive oil.
- Properly start thread engagement.



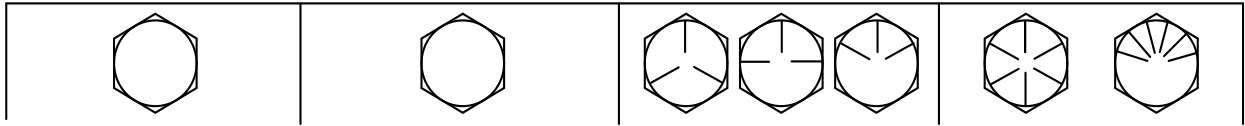
TS1741—UN—22MAY18

^aHex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.

^bHex flange column values are valid for ASME B18.2.3.9M, ISO 4161, or EN 1665 hex flange products.

DX,TORQ2-19-30MAY18

Unified Inch Bolt and Screw Torque Values



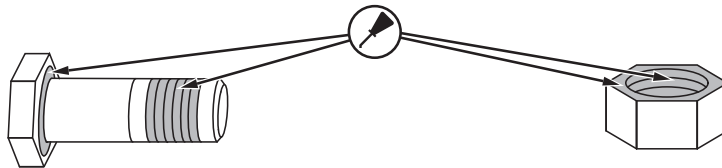
TS1671—UN—01MAY03

Bolt or Screw Size	SAE Grade 1 ^a				SAE Grade 2 ^b				SAE Grade 5, 5.1 or 5.2				SAE Grade 8 or 8.2			
	Hex Head ^c		Flange Head ^d		Hex Head ^c		Flange Head ^d		Hex Head ^c		Flange Head ^d		Hex Head ^c		Flange Head ^d	
	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
1/4	3.1	27.3	3.2	28.4	5.1	45.5	5.3	47.3	7.9	70.2	8.3	73.1	11.2	99.2	11.6	103
													N·m	lb·ft	N·m	lb·ft
5/16	6.1	54.1	6.5	57.7	10.2	90.2	10.9	96.2	15.7	139	16.8	149	22.2	16.4	23.7	17.5
									N·m	lb·ft	N·m	lb·ft				
3/8	10.5	93.6	11.5	102	17.6	156	19.2	170	27.3	20.1	29.7	21.9	38.5	28.4	41.9	30.9
					N·m	lb·ft	N·m	lb·ft								
7/16	16.7	148	18.4	163	27.8	20.5	30.6	22.6	43	31.7	47.3	34.9	60.6	44.7	66.8	49.3
	N·m	lb·ft	N·m	lb·ft												
1/2	25.9	19.1	28.2	20.8	43.1	31.8	47	34.7	66.6	49.1	72.8	53.7	94	69.3	103	75.8
9/16	36.7	27.1	40.5	29.9	61.1	45.1	67.5	49.8	94.6	69.8	104	77	134	98.5	148	109
5/8	51	37.6	55.9	41.2	85	62.7	93.1	68.7	131	96.9	144	106	186	137	203	150
3/4	89.5	66	98	72.3	149	110	164	121	230	170	252	186	325	240	357	263
7/8	144	106	157	116	144	106	157	116	370	273	405	299	522	385	572	422
1	216	159	236	174	216	159	236	174	556	410	609	449	785	579	860	634
1-1/8	305	225	335	247	305	225	335	247	685	505	751	554	1110	819	1218	898
1-1/4	427	315	469	346	427	315	469	346	957	706	1051	775	1552	1145	1703	1256
1-3/8	564	416	618	456	564	416	618	456	1264	932	1386	1022	2050	1512	2248	1658
1-1/2	743	548	815	601	743	548	815	601	1665	1228	1826	1347	2699	1991	2962	2185

The nominal torque values listed are for general use only with the assumed wrenching accuracy of 20%, such as a manual torque wrench.
DO NOT use these values if a different torque value or tightening procedure is given for a specific application.
For lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application.

Replace fasteners with the same or higher property class. If higher property class fasteners are used, tighten these to the strength of the original.

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- Apply a thin coat of Hy-Gard™ or equivalent oil under the head and on the threads of the fastener, as shown in the following image.
- Be conservative with the amount of oil to reduce the potential for hydraulic lockup in blind holes due to excessive oil.
- Properly start thread engagement.



TS1741—UN—22MAY18

^aGrade 1 applies for hex cap screws over 6 in (152 mm) long, and for all other types of bolts and screws of any length.

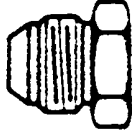
^bGrade 2 applies for hex cap screws (not hex bolts) up to 6 in (152 mm) long.

^cHex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.

^dHex flange column values are valid for ASME B18.2.3.9M, ISO 4161, or EN 1665 hex flange products.

DX.TORQ1-19-30MAY18

Service Recommendations For 37° Flare and 30° Cone Seat Connectors



T6234AC—UN—15APR13

1. Inspect flare and flare seat. They must be free of dirt or obvious defects.
2. Defects in tube flare cannot be repaired. Over-tightening a defective flared fitting will not stop leaks.
3. Align tube with fitting before attempting to start nut.
4. Lubricate male threads with hydraulic fluid or petroleum jelly.
5. Index angle fittings and tighten by hand.
6. Tighten fitting or nut to torque value shown on chart. Do not allow hoses to twist when tightening fittings.

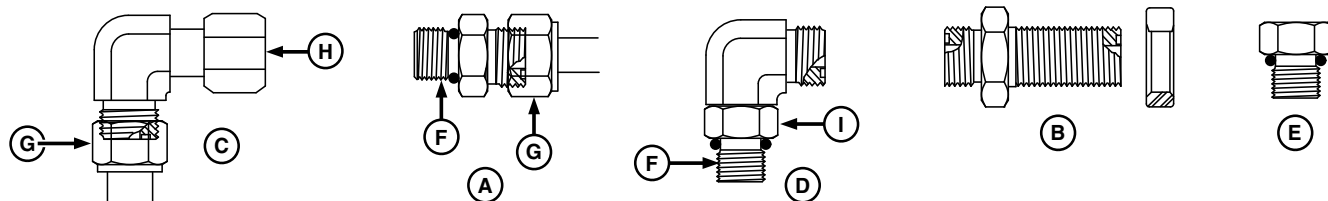
37° Flare Hose/Tube Swivel Nut			
Thread Size	Swivel Nut Hex Size ^a	Swivel Nut Torque ^b	
in	in	N·m	lbf·ft
3/8-24	1/2	11	8
7/16-20	9/16	15	11
1/2-20	5/8	19	14
9/16-18	11/16	24	18
3/4-16	7/8	49	36
7/8-14	1	77	57
1-1/16-12	1 –1/4	107	79
1-3/16-12	1-3/8	127	94
1-5/16-12	1-1/2	147	108
1-5/8-12	2	172	127
1-7/8-12	2-1/4	215	159
2-1/2-12	2-7/8	245	181

^aSwivel Nut hex sizes may vary by manufacturer.

^bThe achieved assembly torque tolerance is +25%, minus 0% of mean tightening torque unless otherwise specified.

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O-Ring Boss Fitting Torque Chart



N79757—UN—13FEB08

A—Stud Straight and Tube Nut
 B—Bulkhead Union and Bulkhead Lock Nut
 C—90° Swivel Elbow and Tube Nut
 D—90° Adjustable Stud Elbow
 E—Port Plug

F—Stud End
 G—Tube Nut
 H—Swivel Nut
 I—Lock Nut

SAE Face Seal and O-Ring Stud End Fitting Torque Chart—Standard Pressure—Below 27.6 MPA (4,000 PSI)													
Nominal Tube OD Hose ID				O-Ring Face Seal/ Tube Swivel Nut			Bulkhead Jam Nut Torque ^a		O-Ring Straight, Adjustable, and External Port Plug Stud Ends ^a				
Met- ric Tube OD	Inch Tube OD			Thread Size	Swivel Nut Hex Size ^b	Tube Nut Swivel Nut Torque ^a	Jam Nut Hex Size	Jam Nut Torque	Thread Size	Straight Hex Size ^c	Adj Lock Nut Hex Size	Steel or Gray Iron Torque	Alumi- num or Brass Torque ^d
mm	Da- sh Size	in.	mm	in.	in.	N·m (lb.-ft.)	in.	N·m (lb.-ft.)	in.	in.	in.	N·m (lb.-ft.)	N·m (lb.-ft.)
5	-3	0.188	4.78	3/8-24	1/2	11 (8)	1/2	16 (12)	3/8-24	5/8	9/16	12 (9)	8 (6)
6	-4	0.250	6.35	7/16-20	9/16	15 (11)	9/16	23 (17)	7/16-20	5/8	5/8	16 (12)	11 (8)
8	-5	0.312	7.92	1/2-20	5/8	19 (14)	5/8	23 (17)	1/2-20	3/4	11/16	24 (18)	16 (12)
10	-6	0.375	9.53	9/16-18	11/16	31 (23)	11/16	31 (23)	9/16-18	3/4	3/4	37 (27)	25 (18)
12	-8	0.500	12.70	3/4-16	7/8	49 (36)	7/8	59 (43)	3/4-16	7/8	15/16	50 (37)	33 (25)
16	-10	0.625	15.88	7/8-14	1	77 (57)	1	125 (92)	7/8-14	1-1/16	1-1/16	69 (51)	46 (34)
20	-12	0.750	19.05	1-1/16-12	1-1/4	107 (79)	1-1/4	156 (115)	1-1/16-12	1-1/4	1-3/8	102 (75)	68 (50)
22	-14	0.875	22.23	1-3/16-12	1-3/8	127 (94)	1-3/8	171 (126)	1-3/16-12	1-3/8	1-1/2	122 (90)	81 (60)
25	-16	1.000	25.40	1-5/16-12	1-1/2	147 (108)	1-1/2	174 (128)	1-5/16-12	1-1/2	1-5/8	142 (105)	95 (70)
32	-20	1.25	31.75	1-5/8-12	2	172 (127)	2	204 (151)	1-5/8-12	1-3/4	1-7/8	190 (140)	127 (93)
38	-24	1.50	38.10	1-7/8-12	2-1/4	215 (159)	2-1/4	255 (188)	1-7/8-12	2-1/8	2-1/8	217 (160)	145 (107)
50.8	-32	2.000	50.80	2-1/2-12	2-7/8	245 (181)	2-7/8	394 (291)	2-1/2-12	2-3/4	2-3/4	311 (229)	207 (153)

^aThe achieved assembly torque tolerance is +25%, minus 0% of mean tightening torque unless otherwise specified

^bSwivel Nut hex sizes may vary by manufacturer

^cThe straight hex wrench sizes listed apply to connectors only and may not be the same as the corresponding plug of the same thread size.

^dThese torques were established using steel plated connectors in aluminum and brass. See section 6.1 for other applications.

NOTE: Torque tolerance is $\pm 10\%$.

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