

435 and 535 Round Balers

(Serial No. 990001-)

John Deere Ottumwa Works
OME87614 Issue I5
**(Mark old manual OME82417 H2 for
machines up to Serial No. 990000)**

LITHO IN U.S.A.
ENGLISH

Contents

	Page		Page
Safety	05-1	Removing Baler from Tractor Hitch	25-5
Safety Signs	10-1	Transporting	30-1
Preparing the Tractor		Handling Round Bales	35-1
Adjusting the Drawbar	15-1	Operating the Baler	
Adjusting Tractor Wheels	15-1	BALE-TRAK Monitor	40-1
Checking Ballast, Wheel Spacing and Tire Inflation	15-2	How the Baler Forms a Bale	40-2
Setting Hydraulic Outlets	15-2	Crop Preparation	40-3
Tractor Electrical Hookup	15-3	Breaking-In	40-3
Install BALE-TRAK Monitor Console	15-3	Adjusting Bale Size	40-4
Using Heavy-Duty Tractor Drawbar	15-5	Bale Density Gauge	40-5
Using Drawbar Shield	15-5	Adjusting	
Making Drawbar Shield	15-5	Bale Density	40-6
Preparing the Baler		Pickup Height	40-6
Selecting Twine	20-1	Hydraulic Pickup Lift	40-7
Loading Twine Boxes	20-1	Converging Wheel Height	40-7
Tying Sheet Bend Knot—Plastic Twine	20-2	Forming a Bale	40-8
Tying Modified Square Knot—Sisal Twine	20-2	Checking Baler Performance in the Field ...	40-12
Routing Twine From Right-Hand Twine		Gate Lock Valve	40-13
Box (Rear Arm)	20-2	Using Manual Twine-Trip Rope	40-13
Routing Twine From Left-Hand Twine		Twine Arm	
Box (Front Arm)	20-5	Operating With Empty Baler	40-14
Adjusting Twine Spacing	20-8	Avoid Cycling While Servicing Baler	40-15
Selecting Proper Tire Inflation	20-9	Rotating Baler By Hand	40-15
Attaching and Detaching		Unplugging Baler Under Power	40-16
Connecting Baler to Tractor Drawbar	25-1	Unplugging Baler With Hydraulic Pickup Lift	40-17
Connecting PTO Driveline	25-1	Compressor Rack Assembly	
Assembling Splined Telescoping Members	25-2	Removing	40-17
Installing Orifice in Tractors With Low Hydraulic Flow	25-2	Installing	40-17
Connecting Hydraulic Lines	25-3	Adjusting	40-18
Connecting Wiring Harness	25-4	Starting a Bale in Difficult Conditions	40-19
Storing Jackstand	25-4	Baling	
Connecting Twine Wrap Recycle Rope	25-4	Short, Dry, Slick Crops	40-20
Removing PTO Driveline	25-5	Cornstalks	40-22
		Wet Hay	40-23
		Long, Stiff, Cane-Type Crops	40-24
		Extinguishing a Fire	40-24

Continued on next page

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

OME87614 I5-19-19SEP95

COPYRIGHT© 1995
DEERE & COMPANY
Moline, Illinois
All rights reserved
A John Deere ILLUSTRATION™ Manual
Previous Editions
Copyright 1992, 1990, 1988 Deere & Company

Contents

	Page		Page
Bale Push Bar (Optional)		Servicing Upper Chain and Idler	60-7
Operation	40-25	Adjusting Drive Slip Clutch	60-8
Operating	40-26	Checking Belt Tracking	60-9
Engaging	40-28	Adjusting	
Locking Out	40-29	Belt Tracking	60-11
Variable Core Valve (Optional)		Lower Feed Roll Scraper	60-13
Operation	40-30	Starter Roll Scraper	60-13
Operating	40-30	Auger Scrapers (435 With Wide Pickup)	60-14
Adjusting Gauge Wheels—435 With Wide Pickup	40-31	Take-Up Arm Compression Spring	60-14
Adjusting Wheel Spindles—435 With Wide Pickup	40-31	Bale Size Indicator	60-15
Attachments	45-1	Replacing Tension Wear Channel	60-16
Lubrication and Maintenance		Checking Twine Trip Rod and Valve Latch Clearance	60-16
Grease	50-1	Checking Maximum Size Bale Adjustment	60-18
Hydraulic Oil	50-2	Adjusting Twine Trip Rope	60-19
Gear Case Oil	50-3	Checking Knife Register	60-19
Multiluber Grease	50-3	Adjusting Twine Cutter Anvil	60-20
Alternative Lubricants	50-3	Twine Arm Timing	60-21
Observe Lubrication Symbols	50-4	Adjusting Twine Cutter Tension	
Perform Lubrication and Maintenance	50-4	435 Baler	60-21
Chains	50-5	535 Baler	60-23
Lubrication and Maintenance		Adjusting Number of Twine Wraps on RH	
Every 10 Hours	50-6	End of Bale	
Every 30 Hours	50-8	435 Baler	60-24
Every 50 Hours	50-11	535 Baler	60-25
Every 100 Hours	50-13	Adjusting Twine Distance From RH End of Bale (435)	60-25
Annually	50-14	Adjusting Twine Arm Travel To Shift Valve (535)	60-26
Troubleshooting		Adjusting Twine Cylinder Installation	
Automatic Twine Wrap	55-1	Dimensions	
BALE-TRAK Monitor Difficulties	55-10	435 Baler	60-27
Feeding Difficulties	55-14	535 Baler	60-27
Pickup Difficulties	55-16	Adjusting	
Bale Quality	55-18	Gate Latch Stop	60-28
General Baler Difficulties	55-20	Gate Latch Linkage	60-29
Push Bar Difficulties	55-26	Twine Indicator Retaining Strap	60-29
Silage Bundle Difficulties	55-28	Checking Microswitches	60-30
Service		Adjusting	
Practice Safety	60-1	Pump Idler Switch	60-30
Service Tires Safely	60-2	Gate Latch Switch (Green Light)	60-31
BALE-TRAK Monitor and Baler Wiring		Twine Arm Switch (Solid Yellow Light)	60-31
Diagram	60-4	Flashing Yellow Light Switch	60-32
Bale Tension and Gate Hydraulic System		Oversize Bale Switch (Red Light)	60-33
Diagram	60-6	Variable Core Switch	60-33
Adjusting Chains	60-7	Bale Shape Senders	60-34
Adjusting Upper Drive Roll Chain	60-7	Adjusting Pickup Float Springs	
		435 Standard Pickup and 535	60-35
		435 Wide Pickup	60-36

Continued on next page

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>

Contents

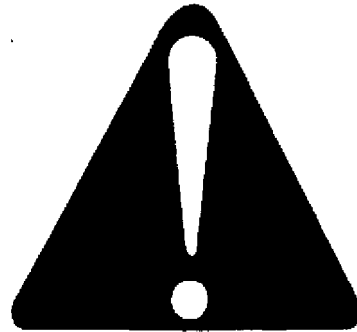
	Page
Adjusting Pickup Belt Idler	60-36
Removing Center and Rear Tension Arm	
Rolls	60-37
Removing Front Tension Arm Roll	60-38
Twine Hydraulic Pump	
Priming	60-38
Cleaning Pump Screen	60-40
Raising Gate With Hoist	60-40
Checking Belt Pins	60-41
Removal of All Belts or Spring Rods	60-41
Installing Belts	60-42
Repairing Belts	60-43
Belts Eligible for Warranty Replacement	60-47
Belts Not Eligible for Warranty	
Replacement	60-48
Storage	65-1
Specifications	
Machine Specifications	
435 Baler	70-1
535 Baler	70-3
Record Product Identification Number	70-4
Bolt and Cap Screw Torque Value Charts	
Metric	70-5
Inch	70-6
Crime Prevention Tips	75-1
Index	

Safety

RECOGNIZE SAFETY INFORMATION

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

Follow recommended precautions and safe operating practices.



DX,ALERT -19-03MAR93

T81389 -UN-07DEC68

UNDERSTAND SIGNAL WORDS

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

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



DX,SIGNAL -19-03MAR93

TS187 -19-30SEP88

FOLLOW SAFETY INSTRUCTIONS

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

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

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

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



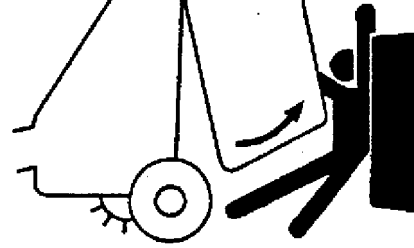
DX,READ -19-03MAR93

TS201 -UN-23AUG88



PROTECT BYSTANDERS

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



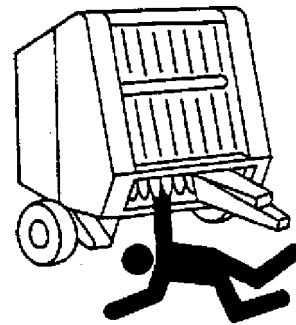
EX,435C,A -19-01SEP88

E32162 -UN-12SEP88

OPERATE BALER SAFELY

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

- DO NOT attempt to feed crop or twine into baler or unplug feed area WHILE BALER IS RUNNING. The baler feeds material faster than you can release it.
- Disengage PTO and shut off engine.
- Stand clear of baler at all times when machine is operating.



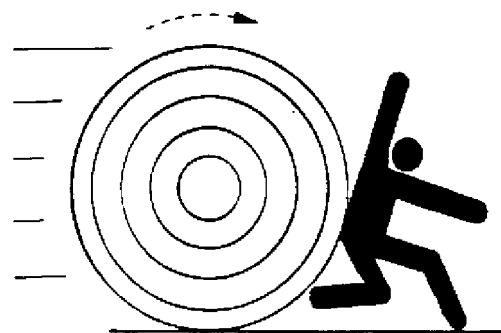
EX,435C,B -19-01SEP88

E32161 -UN-12SEP88

OPERATE SAFELY ON SLOPES

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

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



EX,435C,C -19-14JUL92

E36866 -UN-30APR92



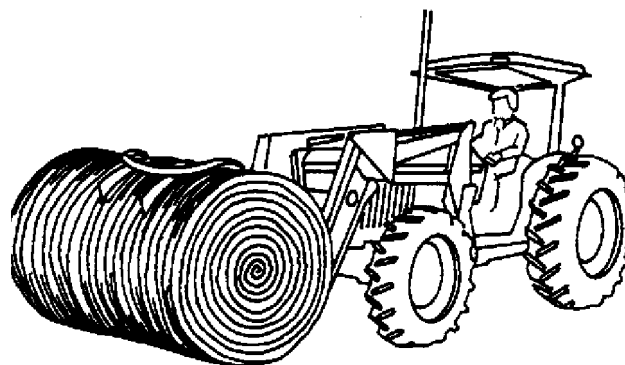
HANDLE ROUND BALES SAFELY

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



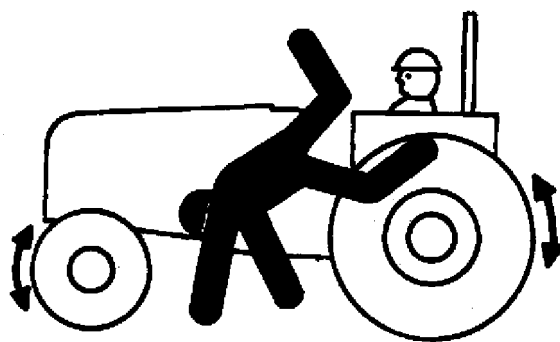
W7718 -UN-06OCT88

EX,435C,D -19-01SEP88

KEEP RIDERS OFF MACHINE

Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.



TS290 -UN-23AUG88

DX,RIDER -19-03MAR93



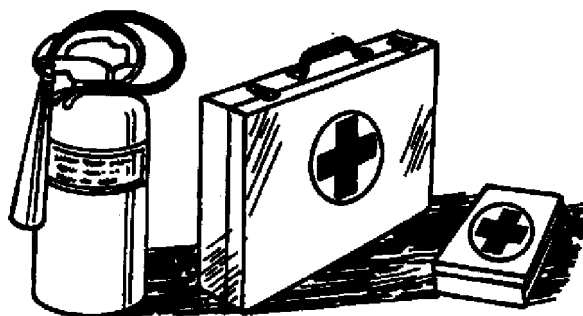
PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

1. Eject bale immediately.
2. Move tractor and baler upwind 9 m (30 ft) away from flammable material.
3. Raise gate and engage gate lock valve.
4. Use fire extinguisher or other water supply to put out fire.

Keep first aid kit handy.

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



-UN-23AUG88

TS291

EX,435C,J -19-01NOV88

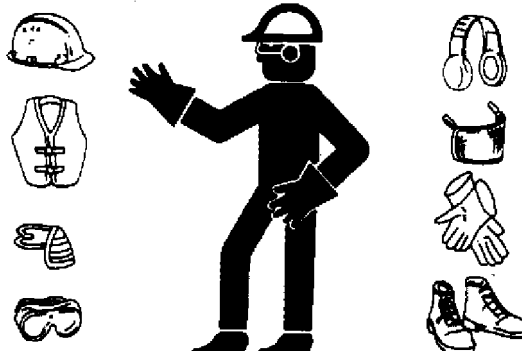
WEAR PROTECTIVE CLOTHING

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

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

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

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



-UN-23AUG88

TS206

DX,WEAR -19-10SEP90



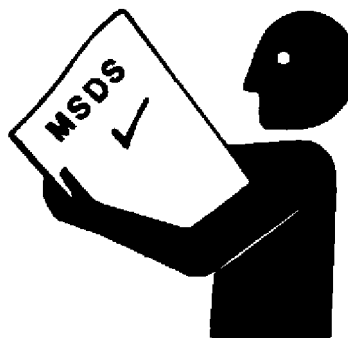
HANDLE CHEMICAL PRODUCTS SAFELY

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)



DX,MSDS,NA -19-03MAR93

TS1132 -UN-26NOV90

STAY CLEAR OF ROTATING DRIVELINES

Entanglement in rotating driveline can cause serious injury or death.

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

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



DX,PTO -19-12SEP95

TS1644 -UN-22AUG95



Suggest:

For more complete manuals. Please go to the home page.

<https://www.ebooklibonline.com>

If the above button click is invalid. Please download this document first, and then click the above link to download the complete manual.

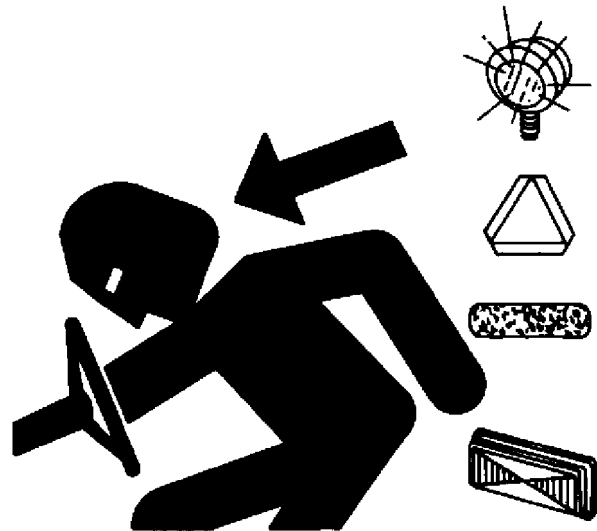
Thank you so much for reading



USE SAFETY LIGHTS AND DEVICES

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

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



DX,FLASH -19-12SEP95

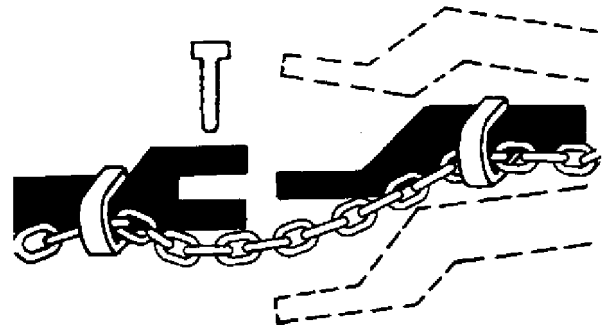
TSS951 -UN-12APR90

USE A SAFETY CHAIN

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

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

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



DX,CHAIN -19-03MAR93

TSS217 -UN-23AUG88



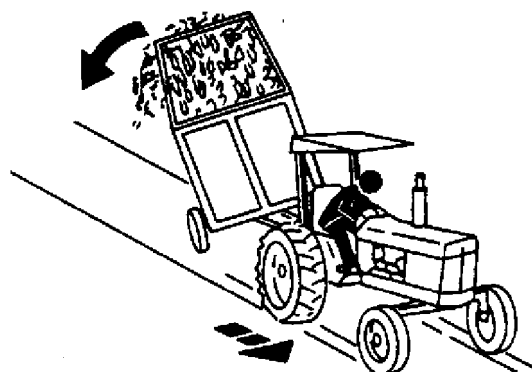
TOW LOADS SAFELY

Towed loads with or without brakes that are too heavy for the tractor or are towed too fast can cause loss of control. Use additional caution when towing loads under adverse surface conditions, when turning, and on inclines.

For tractors towing loads more than 1.5 t (3300 lb):

- 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. Ensure the load does not exceed 1.5 times the tractor weight by adding ballast to tractor, lightening the load, or getting a heavier towing unit.
- 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.

Consider the total weight of the equipment and its load.



DX,TOW -19-27JUL95

TS216 -UN-23AUG88

PRACTICE SAFE MAINTENANCE

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

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

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

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

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



DX,SERV -19-03MAR93

TS216 -UN-23AUG88

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>