

HAY CONDITIONER (FOR USE WITH 540 RPM PTO) (SERIAL NO. 20501 AND UP)



JOHN DEERE

OPERATORS MANUAL

**HAY CONDITIONER (FOR USE WITH 540
RPM PTO) (SERIAL NO. 20501 AND UP)**

OMH601159 K9 English

OMH601159 K9

LITHO IN THE U.S.A.
ENGLISH



TO THE PURCHASER

This Operator's Manual has been carefully written and illustrated to provide the necessary information regarding assembly, hook-up, lubrication, adjustments, and operation so that you may obtain maximum service and satisfaction from your John Deere Hay Conditioner.

If you should find that you require information not covered in this manual, consult your John Deere dealer. He will be glad to answer any question that may arise regarding the operation of your Hay Conditioner. Your John Deere dealer has trained mechanics who are kept informed on the best John Deere service methods and will render you prompt service if needed.

STUDY THIS MANUAL CAREFULLY AND KEEP IT HANDY IN A SAFE PLACE FOR FUTURE REFERENCE.



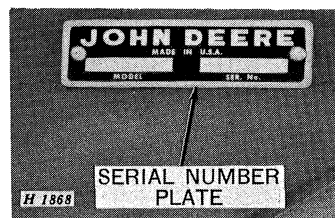
Location Reference: "Right-hand" and "left-hand" sides are determined by facing in the direction the Hay Conditioner will travel when in use.

Should your Hay Conditioner require replacement parts, go to your John Deere dealer where you will receive Genuine John Deere Parts—accept no substitutes.

SERIAL NUMBER

The Hay Conditioner serial number plate is located on the left-hand side of the main frame.

Hay Conditioner Serial No......
Date Purchased.....



SHIPPING PACKAGES

The John Deere Hay Conditioner (For use with 540 rpm PTO) is shipped in the following shipping packages:

BH 50192 H	Hay Conditioner
with	
BH 50059 H	Manual Lift
or	
BH 50060 H	Hydraulic Remote Cylinder Lift
with	
14903 HH	Hydraulic Remote Cylinder Hose Support
BH 50115 H	Shields and Shaft with Miscellaneous Parts
BH 50080 H	Deflector Shield
BH 50022 H	Hitch Tube
BH 50026 H	Gear Case with Rope-Controlled Throw-Out Clutch
BH 50027 H	Gear Case without Throw-Out Clutch

SPECIAL EQUIPMENT

BH 50103 H	Windrower Attachment
BH 50201 H	Roll Guard Extensions
H 25197 H	18-Tooth High-Speed Sprocket

TRACTOR HOOKUP

BH 50116 H	Powershaft and Tubular Shield for 1-3/8-Inch Tractor PTO Spline
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For Tractors with 1-1/8-inch or 1-3/4-inch PTO Spline, remove the 1-3/8-inch Splined Yoke and replace with one of the following:

BH 50116 H	
and	
BH 50118 H	Yoke for 1-1/8-Inch Tractor PTO Spline
or	
BH 50116 H	
and	
BH 50119 H	Yoke for 1-3/4-Inch Tractor PTO Spline

JOHN DEERE HAY CONDITIONER

PREDELIVERY CHECK LIST

After the hay conditioner has been completely assembled and lubricated, inspect to be sure it is in good running order before delivering it to the customer. The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory, or after proper adjustment is made.

- ☐ Tire pressure has been reduced to 28 psi.
- ☐ Hay conditioner has been assembled according to instructions. Nuts on all bolts have been tightened and all cotter pins spread.
- ☐ Sealing tape has been removed from breather hole in top of gear case on hay conditioner not equipped with throw-out clutch gear case.
- ☐ All grease fittings are in place and hay conditioner has been lubricated.
- ☐ Gear case has been checked and is filled with SAE 80 or SAE 90 multi-purpose gear lubricant.
- ☐ Rear roll (small) has been brushed with medium weight transmission oil.
- ☐ Drive chain has been adjusted to proper tension.
- ☐ Roll pressure has been set for normal operation.
- ☐ This hay conditioner has been checked and, to the best of my knowledge, is ready for delivery to the customer.

(Date Set Up)

(Signature of Set - Up Man)

OWNER'S REGISTER

Name.....
Post Office.....
County.....State.....
Operator's Manual No.....
Date Sold.....
Serial No.....

DELIVERY CHECK LIST

The following check list is a reminder of very important information which should be conveyed directly to the customer at the time hay conditioner is delivered. Check off each item as it is fully explained to customer.

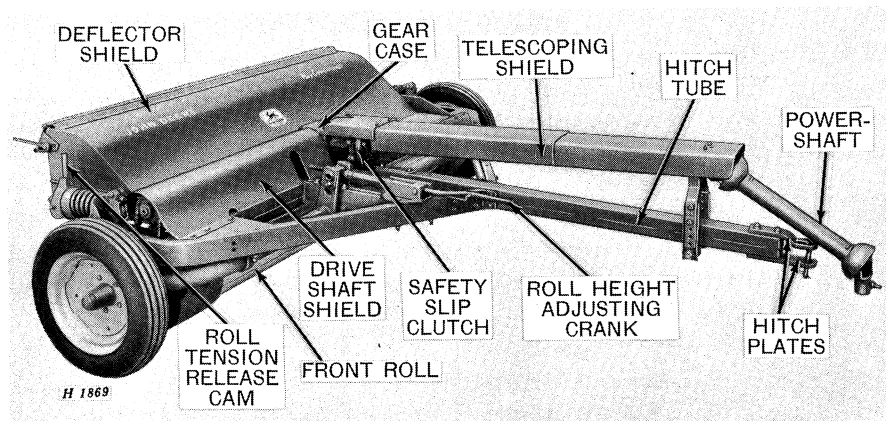
- ☐ The customer has been advised that the life expectancy of this or any other machine is dependent on regular lubrication as directed in Operator's Manual.
- ☐ The customer has been advised of all safety precautions he must observe while using this hay conditioner.
- ☐ The Operator's Manual has been given to the customer. The proper tractor hookup and all operating adjustments have been fully explained to him.
- ☐ To the best of my knowledge, this hay conditioner has been delivered ready for field use and customer has been fully informed as to proper care and operation.

(Date Delivered)

(Signature)

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John Deere Hay Conditioner—540 rpm PTO

SPECIFICATIONS

Width of Roll... 72 Inches	Bearings:
Diameter of Rolls:	Gear Case.... Four Tapered
Large Roll.... 9 Inches	Roller Bearings
Small Roll ... 4 Inches	Wheels..... Four Tapered
Over-All Width. 96 Inches	Roller Bearings
Over-All Length. 92-1/2 Inches	Large Roll.... Two Sealed
Wheels and Tires Standard Drop	Ball Bearings
Center Type	Small Roll.... Two Self-Align-
Tires—4.00-12	ing Ball Bear-
Weight (Approx.) 1,000 Pounds	ings
	Drive Shaft... One Sealed Ball
	Bearing

(Specifications and design subject to change without notice.)

LUBRICATION

GEAR CASE: Keep SAE 80 or 90 Multi-Purpose gear lubricant up to the oil fill plug in the gear case (approximately one pint required). Oil should be drained and replaced with new oil at the beginning of each year's operation. Do not use burned-out oil from automobile or tractor.

To drain oil, remove drain plug at bottom of gear case.

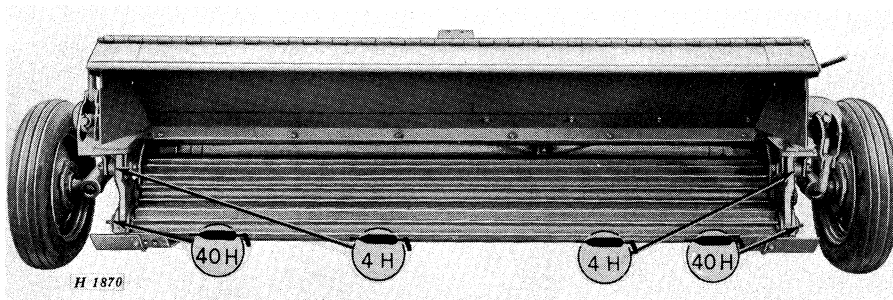
Keep breather hole in gear case free of dirt and grit at all times. *NOTE: The throw-out clutch type gear case breathes around the shifter shaft in the cover.*

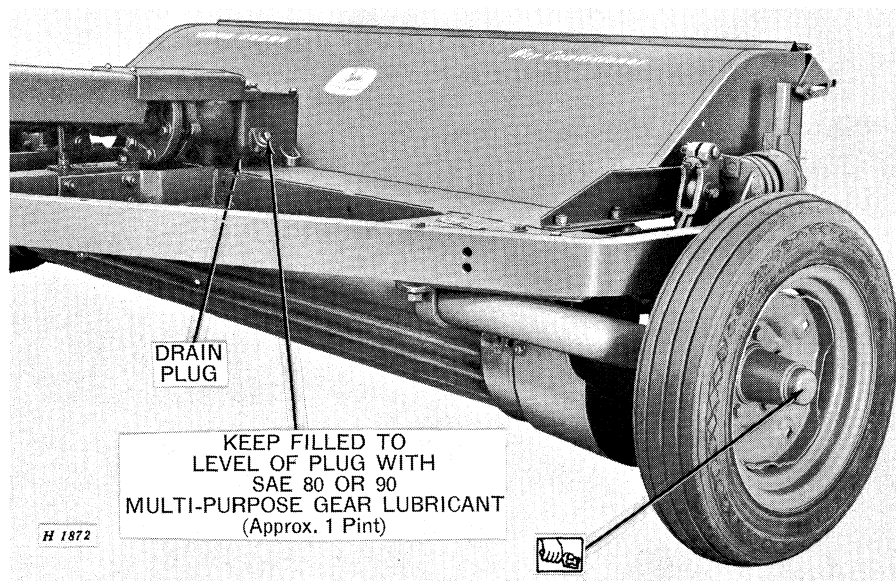
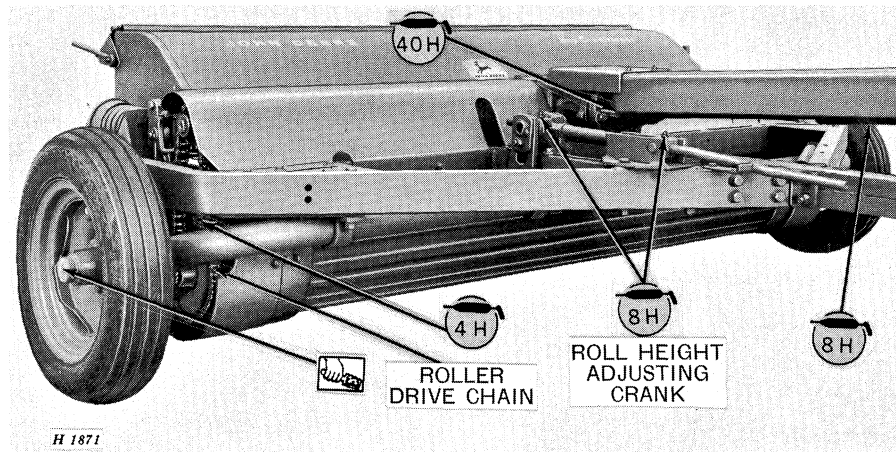
Check gear case oil level at least every 60 hours of operation.

Wipe dirt from grease fittings and nozzle of gun before greasing. Replace missing or damaged grease fittings immediately. Lubricate all grease fittings thoroughly with SAE Multi-Purpose grease, until grease oozes out of bearing. This assures that bearing is full, also flushes out dirt that may have accumulated in the bearing. However, avoid excessive lubrication.

Roller drive chain should be lubricated at frequent intervals. Light machine oil should be used. A clean paint brush is a good instrument for applying oil to chains. **CAUTION: Do not oil chain when operating in sandy conditions. Sand will stick to the oiled chain and act as an abrasive.**

SYMBOLS	
	Grease every 4 hours of operation with SAE Multi-Purpose grease.
	Grease every 8 hours of operation with SAE Multi-Purpose grease.
	Grease every 40 hours of operation with SAE Multi-Purpose grease.
	Hand pack bearing once a year with SAE Multi-Purpose grease.

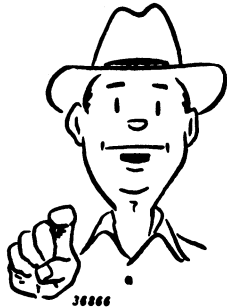




NOTE: When lubricating the hay conditioner, check all bolts and nuts to be sure they are tight. Also check the rolls and other parts for damage or undue wear.



SAFETY SUGGESTIONS



*A Good Operator
Is a Careful
Operator*

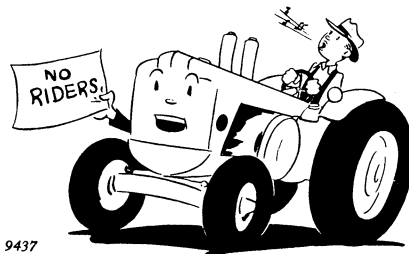
The safety of the operator was one of the prime considerations in the minds of John Deere engineers when the hay conditioner was designed. Shielding, and other safety features were built into the machine wherever possible.

However, investigation of thousands of farm machinery accidents shows that careless use of farm machinery causes nearly 1/3 of all farm accidents. You can make your farm a safer place to live and work if you observe the safety suggestions given below. Study these suggestions carefully and insist that they be followed by those working with you and for you.

All machinery should be operated only by responsible persons who have been delegated to do so.

Don't stand in back of the hay conditioner while it is running. Don't allow others to do so.

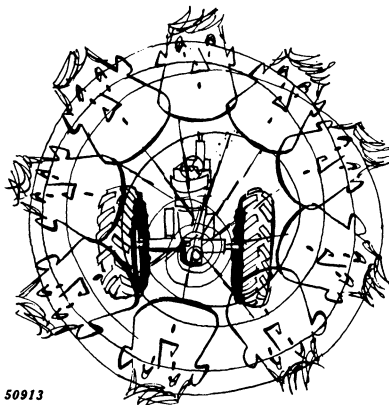
Make it a rule never to dismount from the tractor without first disengaging the powershaft.



*Only One Person—The Operator—
Should be Permitted on the
Tractor Platform When Tractor
Is in Operation*

Never clean, oil, or adjust the hay conditioner with the tractor engine running.

Provide a first-aid kit at the house for use in case of accident. Use proper antiseptics on scratches and cuts without delay, to prevent the possibility of infection.

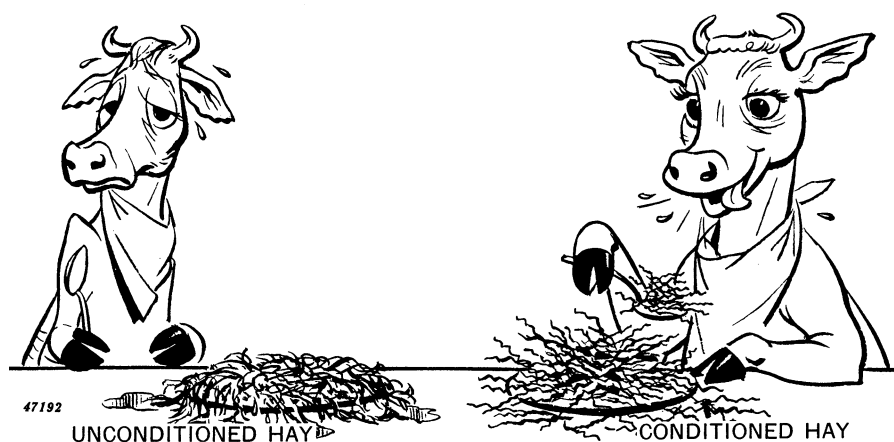


*Never Wear Loose Clothing Around
Powershaft*

OPERATION

The cut hay is picked up from the ground and passed between the corrugated surfaces of the two rolls which kink or split the stems at 1-1/2- to 2-inch intervals. The corrugations of the rolls are spaced for aggressive kinking or splitting action on the heavier stems and stalks, at the same time providing ample space for tender leaves and small stems to pass through the rolls without damage.

The kinking and splitting of the stems permits the moisture to escape from the stems at the same rate as from the leaves, providing a fast, uniform curing of the crop.



Under some conditions, the reaction of the crop to the hay conditioner will not show up immediately, but within an hour or two, the moisture will begin to work out and the results will speak for themselves. This should be kept in mind when operating, so adjustments will not be made unnecessarily.

Hay should be conditioned before it starts to wilt—usually within 20 minutes after it has been mowed.

Direction of travel should be the same as used by the mower.

CAUTION

Do not operate the hay conditioner empty. When empty, the rolls are not cushioned and wear will result.

Do not use the guards under the right-hand and left-hand ends of the hay conditioner as runner shoes.

Be sure tires are not overinflated. Proper operating pressure is 28 psi.

ATTACHING HAY CONDITIONER TO TRACTOR

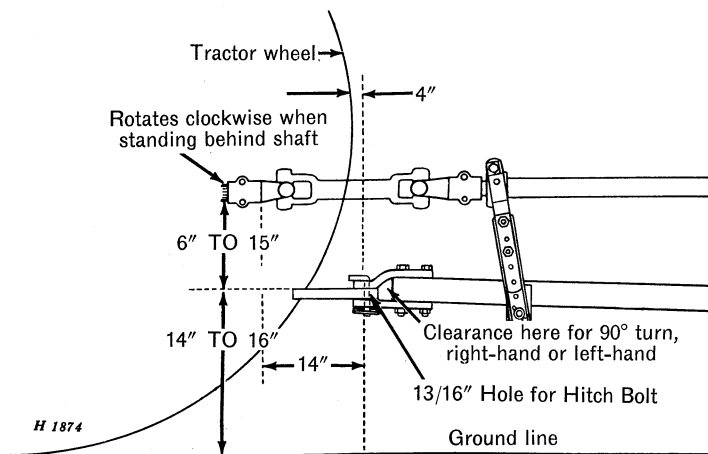
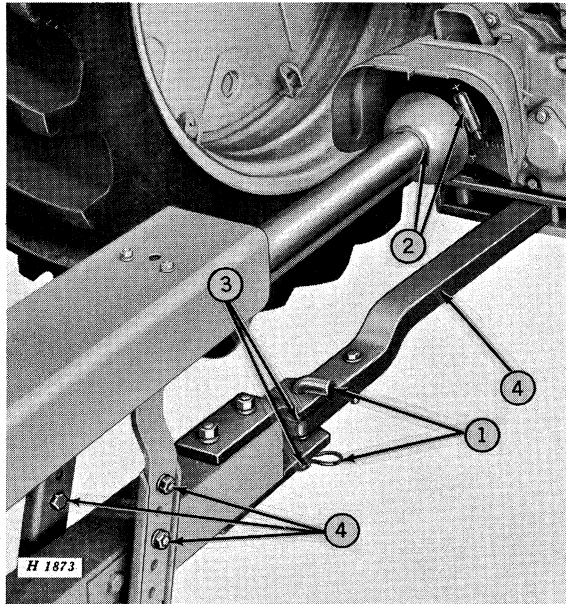
This John Deere Hay Conditioner can be attached to, and used with, any make of tractor equipped with ASAE Standard 540 rpm power take-off.

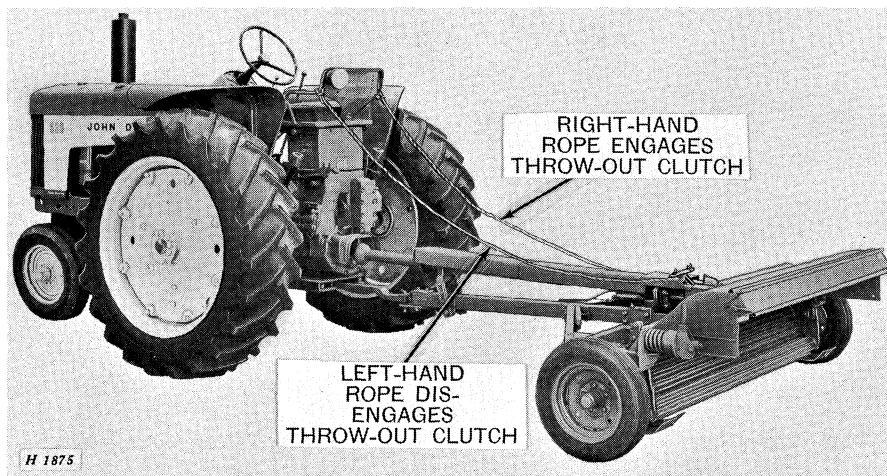
1. Connect hay conditioner to tractor drawbar. **Hitch point must be 14 inches to rear of tractor PTO shaft.**

2. Slide front splined universal joint onto shaft on tractor.

3. Interchange the two hitch plates, or place both at the top or bottom of the hitch, so that powershaft runs in a straight line as seen from the side.

4. Adjust the height of the powershaft up or down so it runs in a straight line. Be sure nuts are always to the outside.



THROW-OUT CLUTCH (OPTIONAL EQUIPMENT)

To engage throw-out clutch, pull right-hand rope. To disengage, pull left-hand rope. *NOTE: Make certain power take-off is disengaged before engaging throw-out clutch.*

GROUND TRAVEL SPEED

Under normal operating conditions, the tractor should be driven at 3 to 5 miles per hour with engine operating at full throttle. When operating in heavy crops or on rough ground, shift into a lower gear.

Be Careful

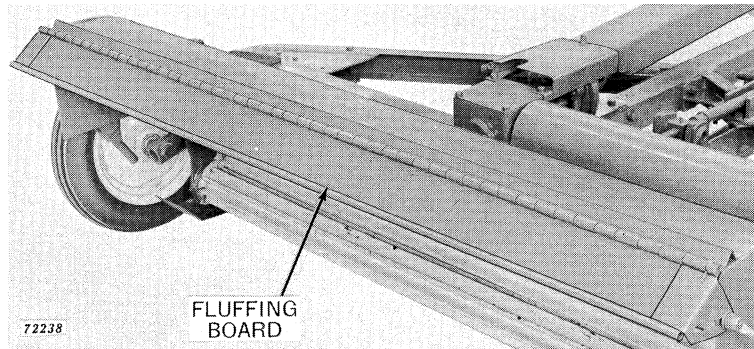


THE LIFE YOU SAVE MAY BE YOUR OWN...

NATIONAL SAFETY COUNCIL

ADJUSTMENTS AND SERVICE

FLUFFING BOARD



The fluffing board is hinged to the deflector shield. It can be adjusted to deflect the hay downward in fluffier, faster-curing swaths.

Adjust the fluffing board downward until maximum fluffing results without bunching.

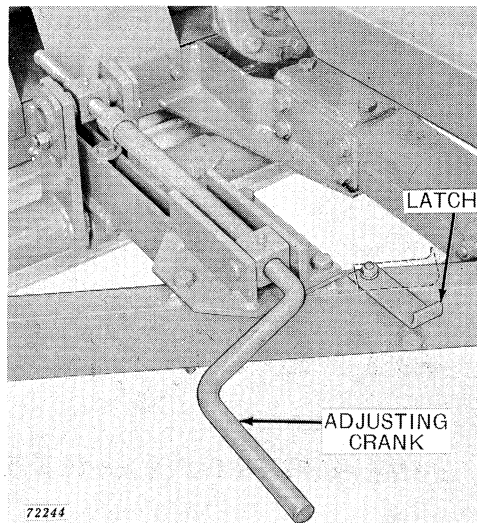
ROLL HEIGHT

Rolls should be set as high as possible (4 to 7 inches) and still pick up the crop.

Operate rolls higher in heavy crops than in light scattered crops.

IMPORTANT: Low roll height is one of the primary causes of material wrapping on rolls.

Raise the rolls when transporting.



HEIGHT ADJUSTMENT

Manual Control

Swing latch back onto frame so it does not interfere with rotating crank.

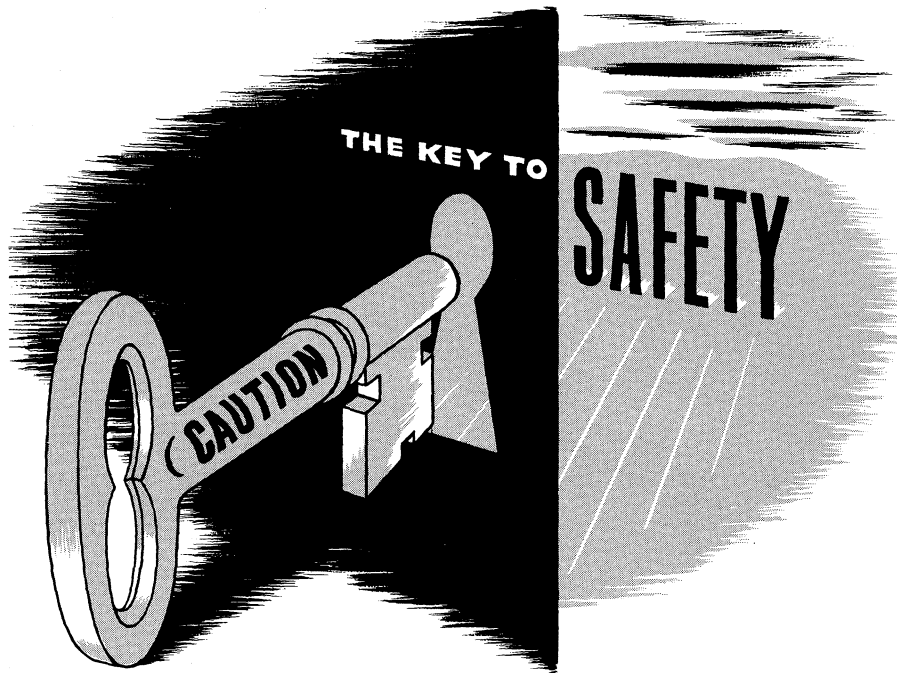
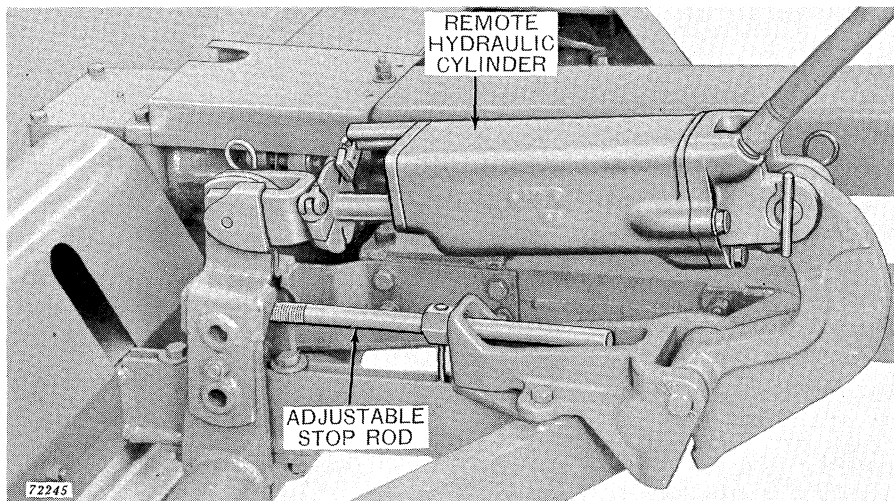
Turn crank counter-clockwise (out) to raise rolls, or clockwise (in) to lower rolls.

Reposition latch to hold crank.

HEIGHT ADJUSTMENT—Continued**Hydraulic Remote Cylinder Control**

An adjustable stop rod can be set so downward travel of rolls will stop at a predetermined height. The stop rod allows free movement of the hydraulic remote cylinder to raise the rolls at any given time.

Turn the stop rod counter-clockwise (out) to increase the minimum height, or clockwise (in) to decrease minimum height of rolls.



ROLL PRESSURE

Heavy, tough crops require more roll pressure than light crops. Both springs should be adjusted to the same length.

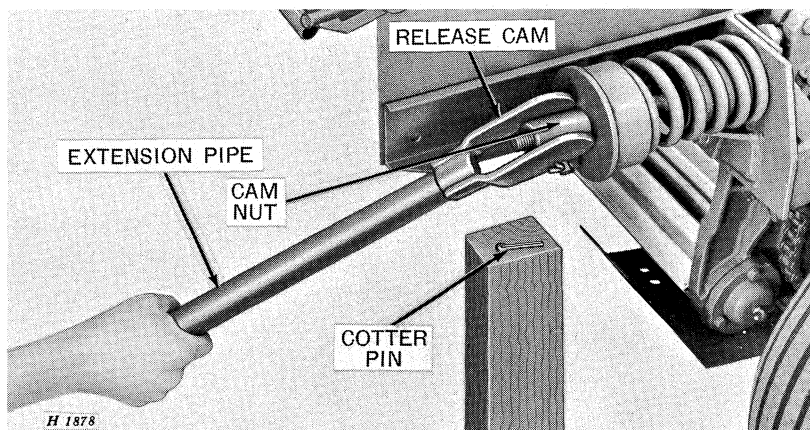
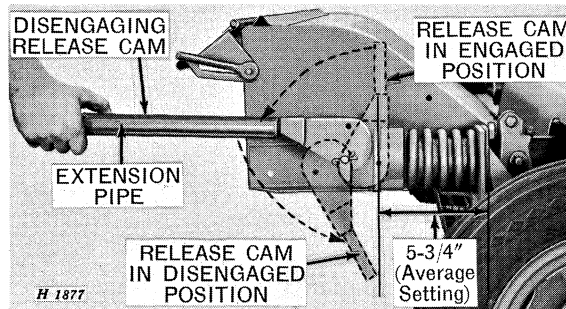
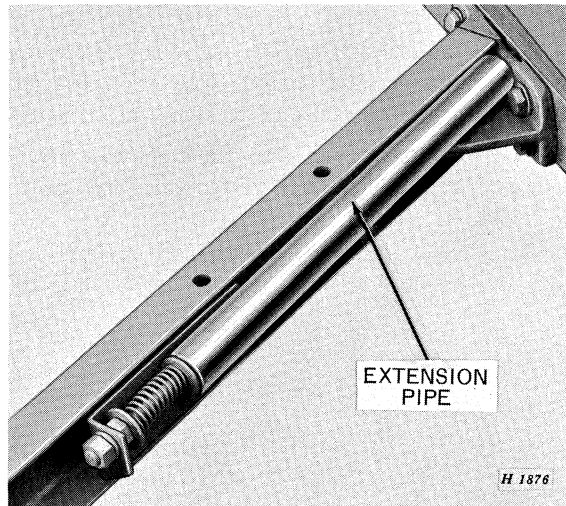
Average setting is 5-3/4 inches, compressed length.

To Adjust:

Remove extension pipe from left-hand main frame. Place pipe over end of cam and pivot down to disengage tension. Remove cotter pin from adjusting bolt. Turn cam nut clockwise to increase tension, or counter-clockwise to decrease tension.

Make certain both springs are adjusted to the same length.

Replace cotter pin. Pivot cam up to re-engage tension. Replace extension pipe.

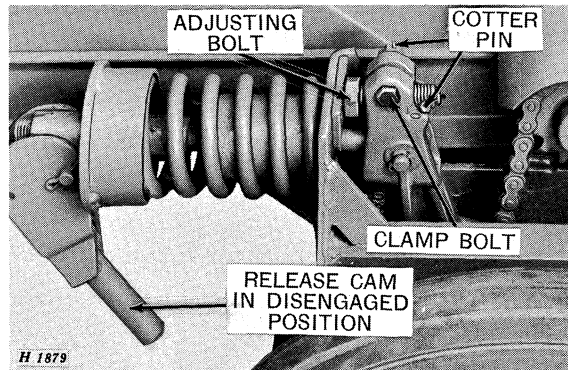


ROLL SPACING

When rolls are too aggressive on tender crops, increase roll spacing by turning the adjusting bolt on each side an equal number of turns.

To Adjust Spacing:

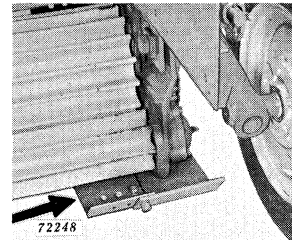
Disengage tension release cams, remove cotter pins, and loosen clamp bolts. Adjust both sides an equal number of turns to maintain uniform spacing (counter-clockwise increases roll spacing). Tighten clamp bolts, reinstall cotter pins, and re-engage tension release cams.



ADJUSTABLE ROLL GUARDS

Material drawn from the adjacent swath may result in wrapping on the ends of the rolls. The effective swath drawn through the rolls can be varied from 1 to 6 inches by adjusting the guards in any one of three positions on each guard.

It may be desirable to remove the adjustable guards in light scattered crops to condition the full width of the swath.



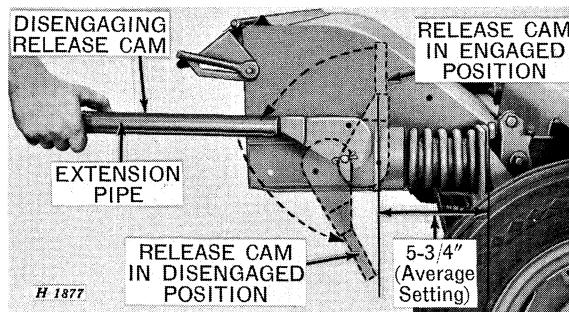
CLEANING ROLLS

If the rolls plug, due to heavy congestion of material, or a foreign object, stop hay conditioner.

Turn off tractor engine.

Disengage the tension release cams.

After cleaning rolls, re-engage roll pressure.



PREVENTION OF MATERIAL WRAPPING ON ROLLS

The problem of material wrapping on the rolls is occasionally encountered when conditioning hay. Following are several recommendations for eliminating this problem:

1. Operate tractor at full throttle. Ground travel speed should be reduced by shifting to a lower gear when conditioning a heavy crop.
2. Condition hay before it starts to wilt, usually within 20 minutes after it has been mowed.
3. Roll height should be set as high as possible and still pick up the hay.
4. Roll spring pressure should be increased for conditioning a heavy crop. Average spring setting—5-3/4 inches, compressed length.
5. If material is drawn from the adjacent swath and results in wrapping or plugging on the ends of the rolls, narrow the roll opening by setting the adjustable roll guard extension in the inner position.

Extreme conditions, or heavy hay mowed with a 6-foot cutter bar, may require additional shielding of the rolls. Order BH50201H Roll Guard Extension.

Also for extreme conditions, the roll speed can be increased by replacing the 15-Tooth Drive Sprocket with an 18-Tooth Drive Sprocket. Order H25197H.

Keeping your equipment in proper adjustment will help to keep it operating efficiently and economically.

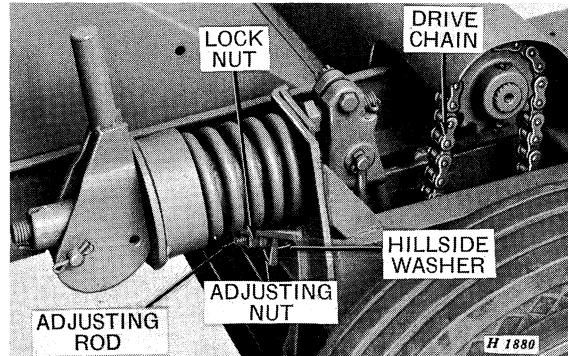
Haste can cause an accident. Take your time when working around machines.

DRIVE CHAIN

Keep the drive chain tight enough so it does not slap or climb sprockets.

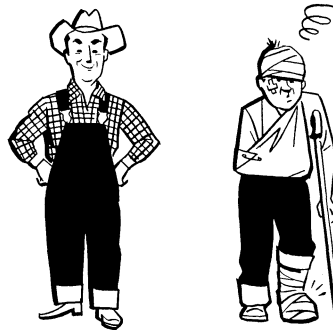
To Adjust Chain Tension:

To increase chain tension: loosen the lock nut and turn the adjusting nut clockwise on the tightener adjusting rod.



To decrease chain tension: turn adjusting nut counter-clockwise.

After adjusting chain tension, be certain to tighten the lock nut on the adjusting rod.



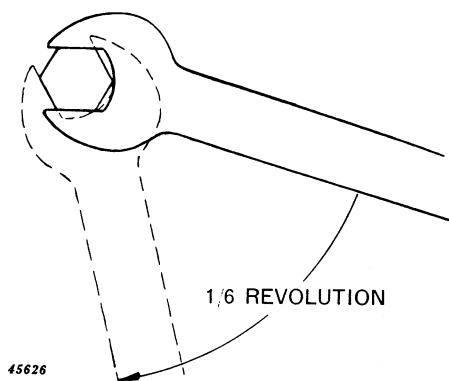
Mr. Careful₅₆₈₇₁ Mr. Careless

It pays to be careful for
your own sake!
Accidents can . . .
Pain
Lame
Maim
and cost you money!

SAFETY SLIP CLUTCH

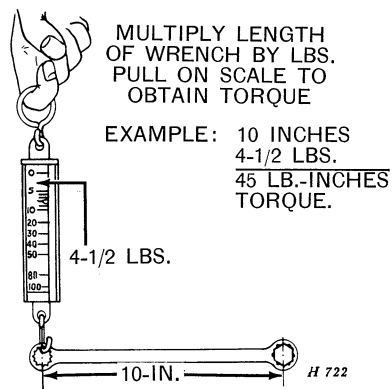
The safety slip clutch has been adjusted at the factory and should require no adjustment, except for normal wear.

CAUTION: If clutch will not slip due to exposure of adverse weather condition, loosen cap screws until clutch is free. Re-adjust to setting given below.



To Adjust:

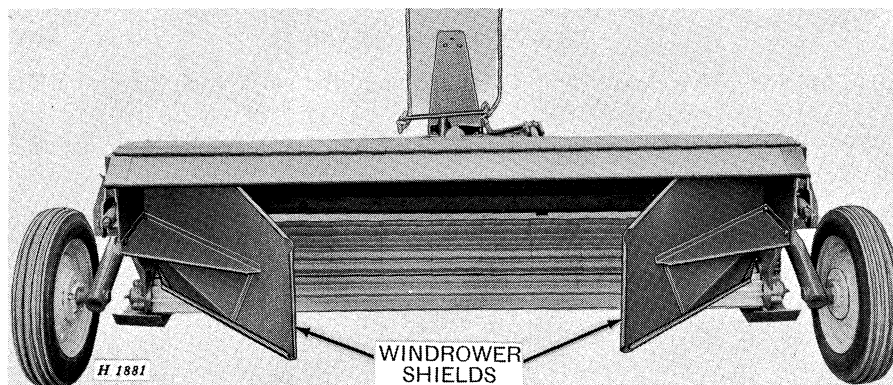
Remove the wire from the cap screw heads and turn each screw $1/6$ revolution as illustrated, then replace wire.



If clutch has been disassembled for repairs, tighten cap screws to 40-50 lb.-inches torque. Use torque wrench, or use a hand scale and wrench as illustrated. **To insure satisfactory operation, follow the above instructions carefully—don't guess.**

SPECIAL EQUIPMENT

WINDROWER ATTACHMENT



The windrower attachment makes it possible to condition and windrow hay in one operation.

When this method is used in conjunction with the special hookup for the John Deere No. 8, No. 9, No. 5, or 20-A Mower and Hay Conditioner, you can cut, condition, and windrow hay in one operation.

The windrower attachment is quickly and easily attached or detached—ready for immediate use in laying light, fluffy 30-inch windrows.

Order BH50103H Windrower Attachment from your John Deere dealer.

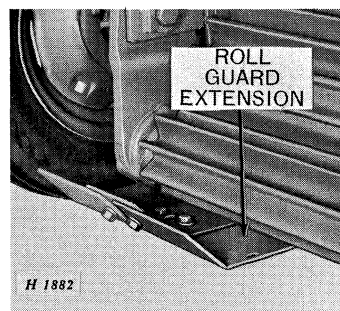
ROLL GUARD EXTENSIONS

To prevent excessive wrapping, due to large amounts of material drawn from the adjacent swath, install roll guard extensions.

Order from your John Deere dealer as follows:

BH 50201 H Roll Guard Extensions

Also order H25197H—18-Tooth High-Speed Drive Shaft Sprocket to increase roll speed and decrease wrapping.



ASSEMBLY

SHIPPING PACKAGES

TRACTOR HOOKUP

BH 50116 H Powershaft and Tubular Shield for 1-3/8-Inch Tractor PTO Spline

For Tractors with 1-1/8-inch or 1-3/4-inch PTO Spline, remove the 1-3/8-inch Splined Yoke and replace with one of the following:

BH 50116 H
and

BH 50118 H Yoke for 1-1/8-Inch Tractor PTO Spline
or

BH 50116 H
and

BH 50119 H Yoke for 1-3/4-Inch Tractor PTO Spline

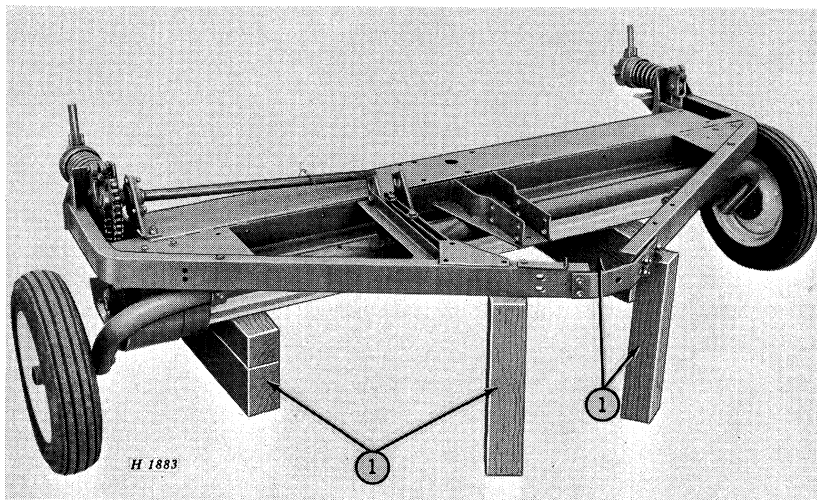
SPECIAL EQUIPMENT

BH 50103 H Windrower Attachment

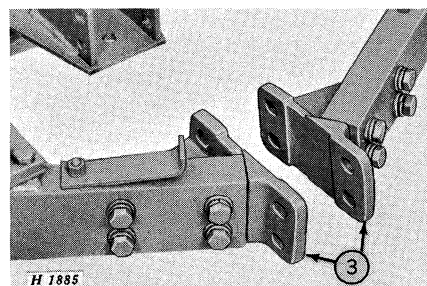
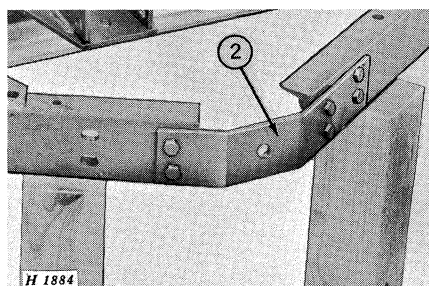
BH 50201 H Roll Guard Extensions

H 25197 H 18-Tooth High-Speed Drive Shaft Sprocket

HITCH TUBE



1. Place blocks snugly under both sides of lower roll and under front of main frame as shown.

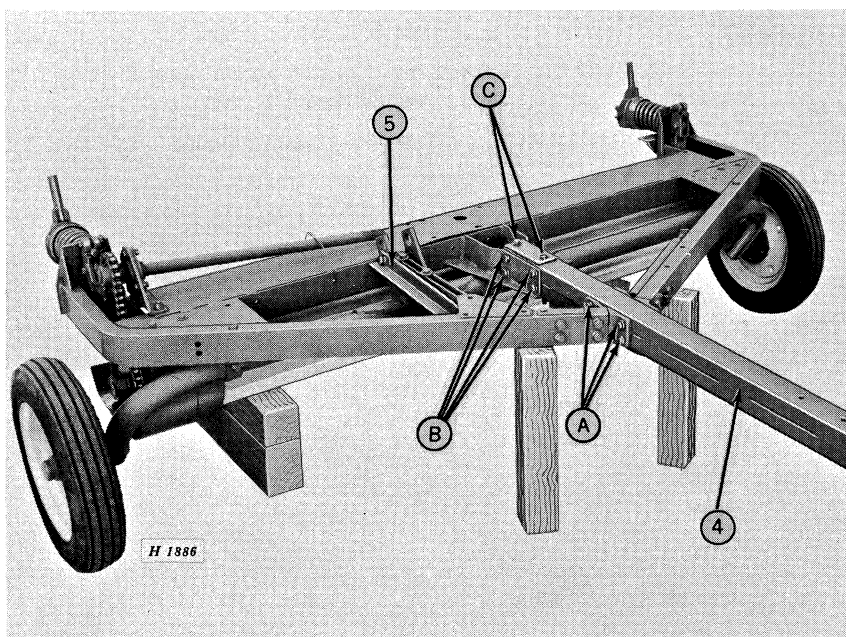
HITCH TUBE—Continued

2. Remove and discard strap securing main frame together. Do not discard the six 1/2- x 1-1/2-inch cap screws as they will be used in the next step.

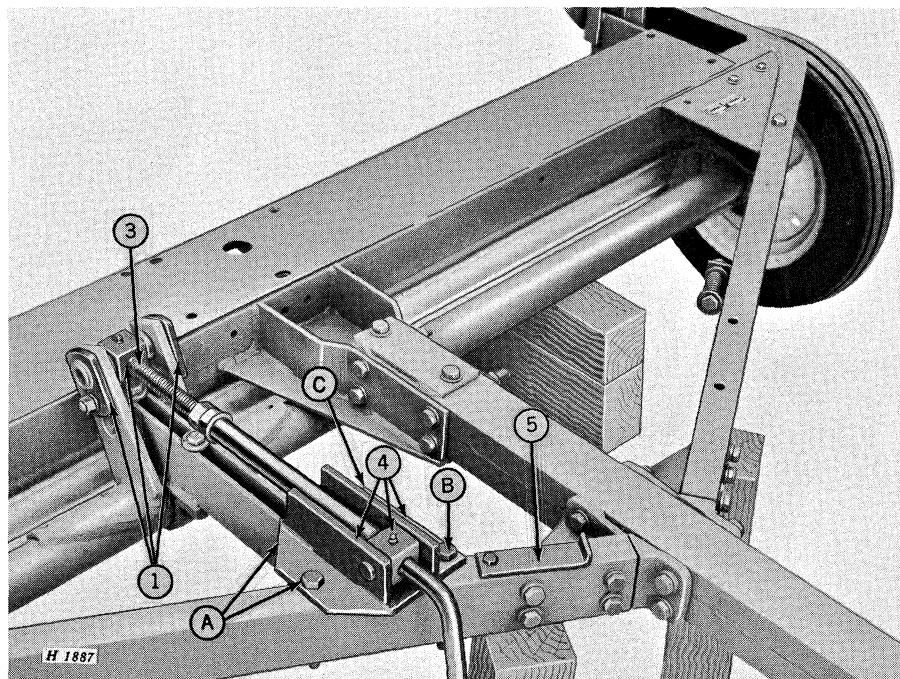
3. Bolt hitch tube support brackets to main frame with eight 1/2- x 1-1/2-inch cap screws.

4. Lay hitch tube in cradle and bolt to support brackets with four 1/2- x 5-inch bolts at "A." Bolt to cradle with four 1/2- x 4-1/2-inch bolts at "B" and two 1/2- x 4-inch bolts at "C."

5. Remove shipping angle from main frame.

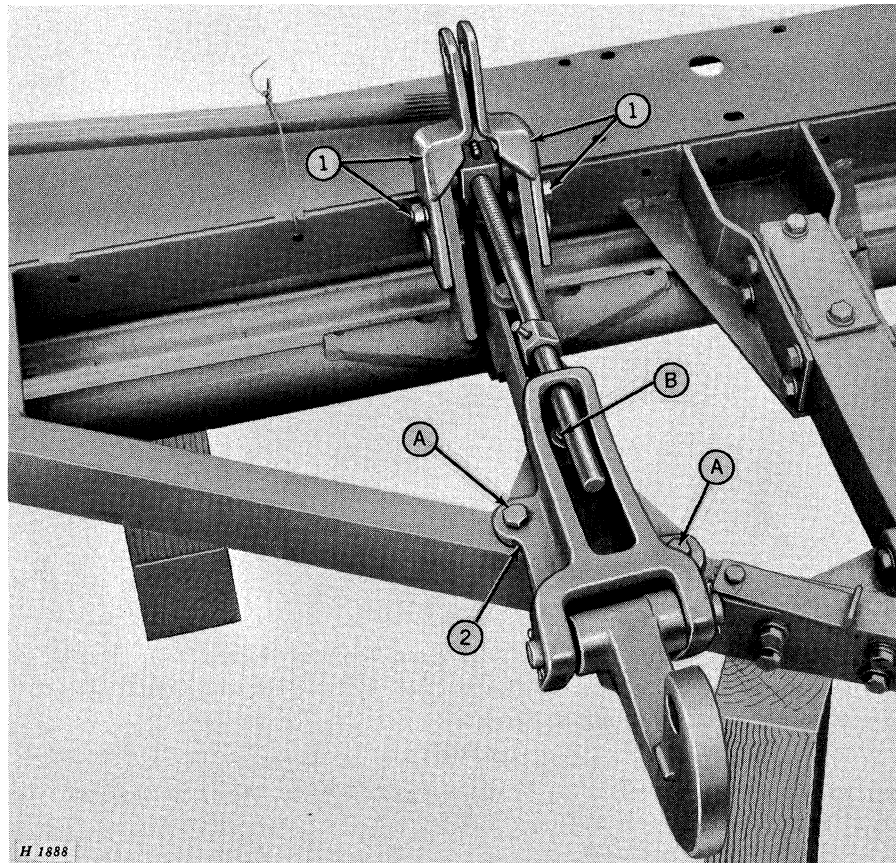


ROLL HEIGHT MANUAL CONTROL



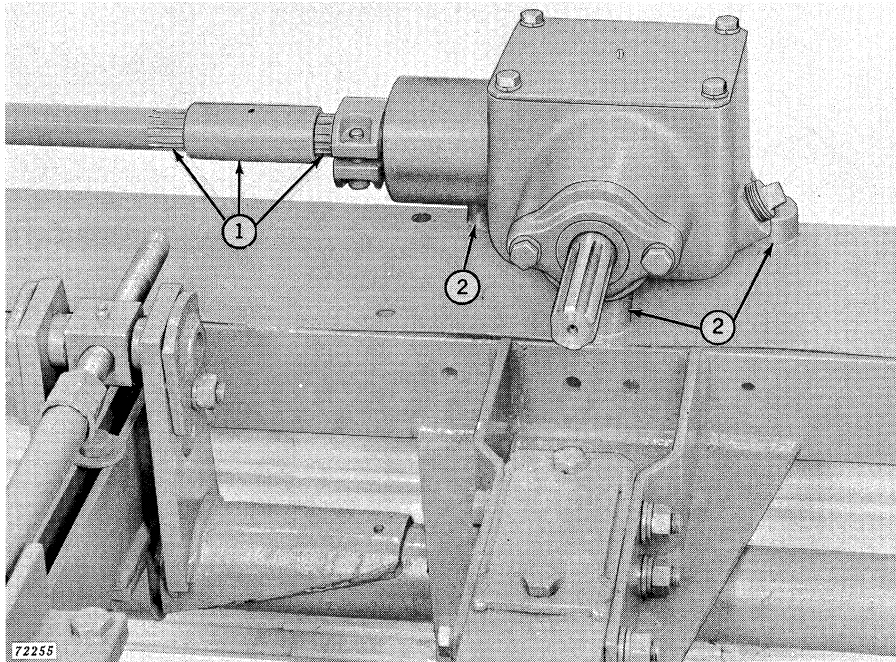
1. Remove rear pivot block from hand crank and assemble it and the two pivot arms to axle with two 1/2- x 1-1/4-inch bolts.
2. Bolt welded support to hay conditioner main frame with two 1/2- x 4-1/2-inch bolts at "A."
3. Screw crank into rear pivot block.
4. Fit front pivot block between welded support and support angle; bolt support angle to welded support with a 1/2- x 4-1/2-inch bolt at "B" and a 1/2- x 1-1/4-inch bolt at "C."
5. Assemble latch to main frame with a 3/8- x 1-1/2-inch bolt.

ROLL HEIGHT HYDRAULIC REMOTE CYLINDER CONTROL



1. Assemble pivot block and two pivot arms to axle with two 1/2- x 1-1/2-inch bolts.
2. Slide pivot arm assembly onto stop rod and bolt to main frame with two 1/2- x 4-1/2-inch bolts at "A," and a 1/2- x 5-inch bolt with a 1-inch flat washer at "B."

GEAR CASE

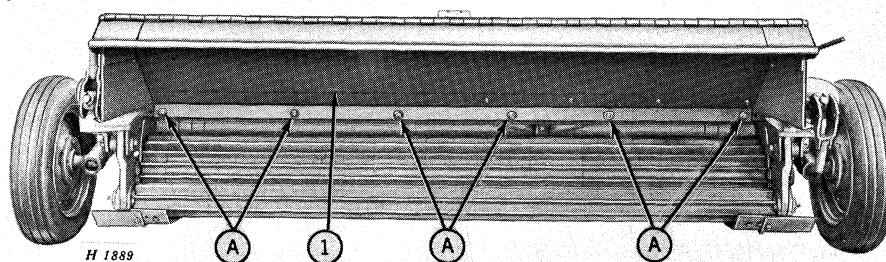


1. Remove masking tape from drive shaft on hay conditioner and from drive shaft on right-hand side of gear case. Couple the shaft and the gear case together with coupling sleeve.
2. Install gear case on hay conditioner, using three 1/2- x 1-1/2-inch cap screws with lock washers. **Important: Do not tighten cap screws until after slip clutch is installed.**

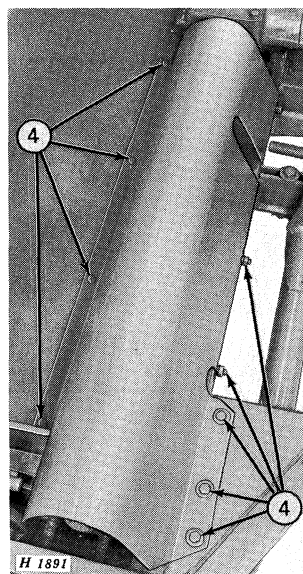
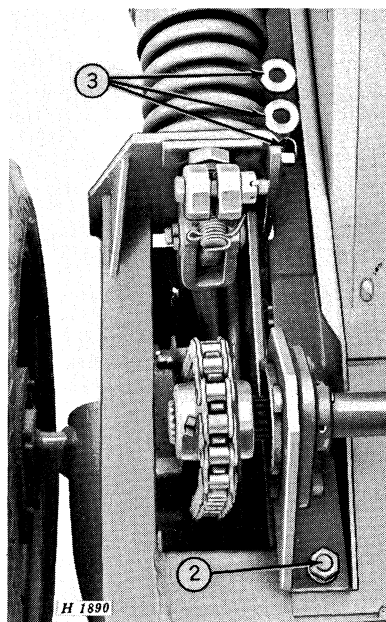
Do not handicap your equipment by using inferior or incorrect oil and grease. Use only quality lubricants at intervals specified in Operator's Manual.

An ounce of care can prevent a pound of cure—service your equipment at recommended intervals, using correct lubricant.

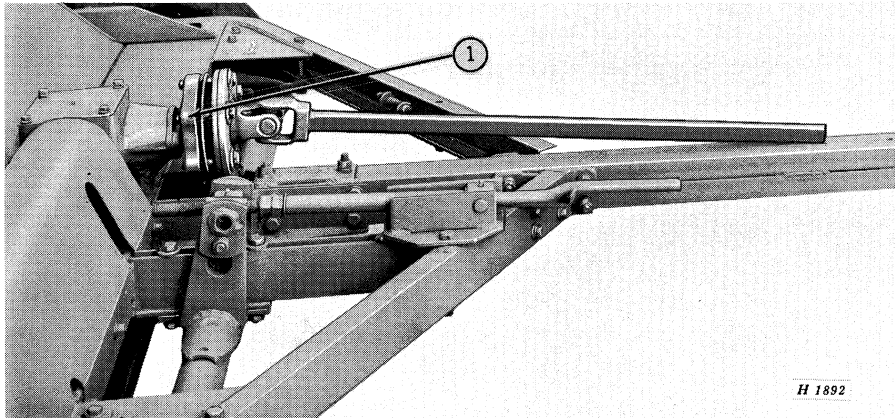
DEFLECTOR SHIELD AND POWERSHAFT SHIELD



1. Attach deflector shield to main frame with six $3/8$ - x 1-inch bolts and six $7/16$ - x 1-inch flat washers at "A."
2. Bolt deflector shield to main frame, making certain drive shaft bearing bracket is on top of shield as illustrated.
3. Bolt shield to main frame, using one or two shims furnished, if necessary, to close gap between shield and main frame support angle.
4. Bolt drive shaft shield to main frame and deflector shield.



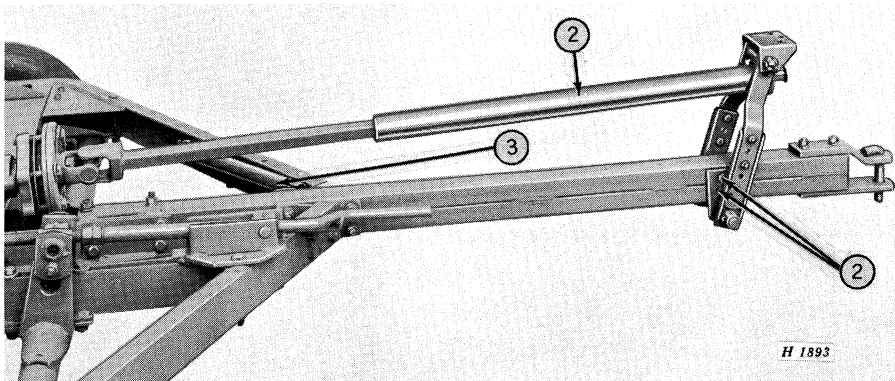
TELESCOPING POWERSHAFT AND SHIELDS



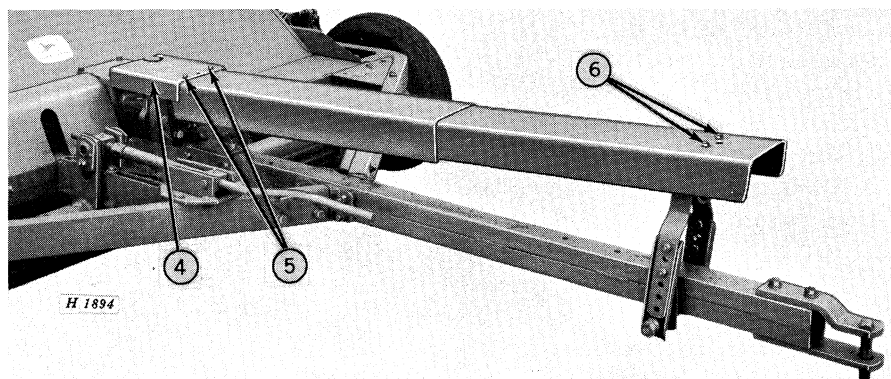
1. Remove tape from splined shaft on gear case. Slide slip clutch onto splined shaft of gear case and hold in place with a 1/4- x 1-3/8-inch roll pin. Tighten the three cap screws holding the gear case in place.

2. Slip front section of telescoping powershaft onto rear section and bolt telescoping powershaft hinge bracket to hitch tube with two 7/16- x 3-3/4-inch bolts.

3. Position extension pipe on left-hand side of main frame.



TELESCOPING POWERSHAFT AND SHIELDS—Continued



4. Bolt the slip clutch shield in place, using the two front cap screws in gear case lid.

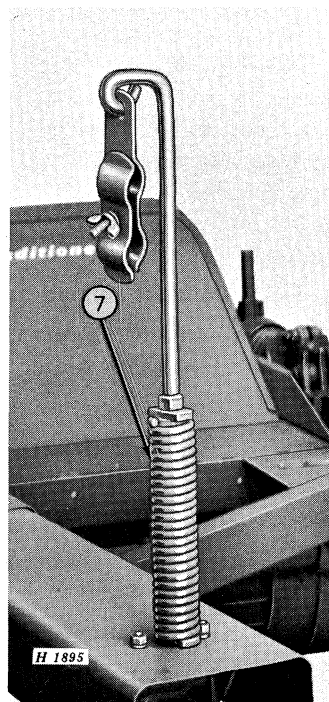
5. Assemble rear powershaft telescoping shield to slip clutch shield with two 3/8- x 5/16-inch bolts, 5/16-inch lock washer, and two 5/16-inch nuts.

6. Slip front section of telescoping powershaft shield into rear section and bolt to plate on front support with two 5/16- x 3/4-inch bolts.

7. (Hydraulic Remote Cylinder Control Only.) Bolt hose support to telescoping shield. (Bolt is inserted from bottom up.)

CAUTION: Before operating hay conditioner, fill gear case with lubricant as instructed on page 3.

8. (Not Illustrated.) Remove blocking from under roll.



TRACTOR HOOK-UP

This John Deere Hay Conditioner can be attached to, and used with, any make of tractor equipped with ASAE Standard 540 rpm power take-off.

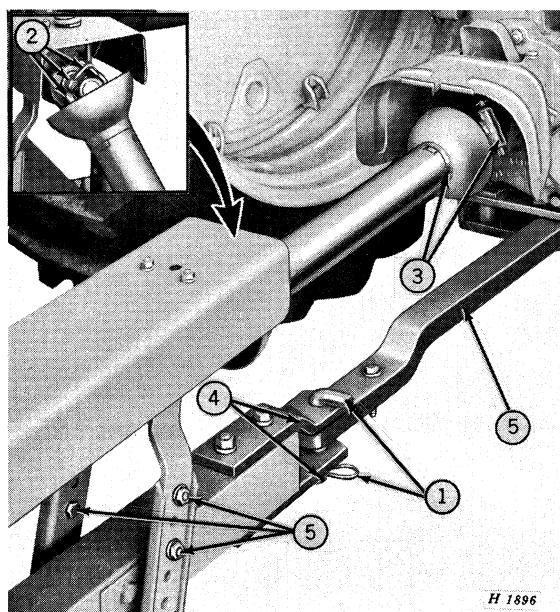
1. Connect hay conditioner to tractor drawbar. Hitch point must be 14 inches to rear of tractor PTO.

2. Remove wire, cap screw, and flat washer from end of power line on hay conditioner and attach rear splined universal joint. Replace flat washer and cap screw. Lock cap screw in place by inserting wire through hole in cap screw and wrapping around universal fork.

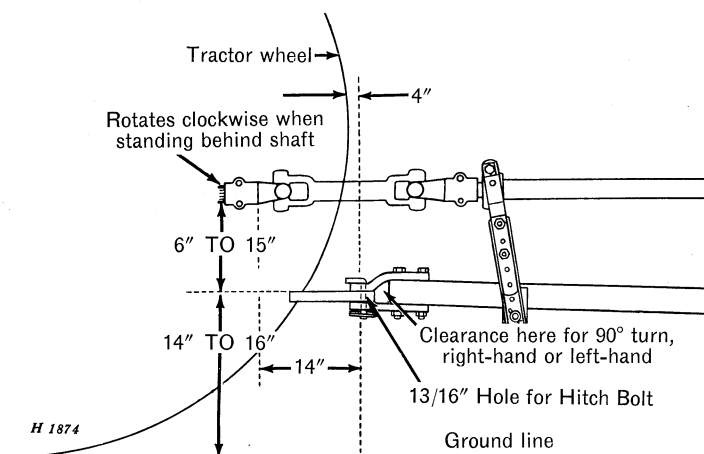
3. Slide front splined universal joint onto tractor PTO shaft.

4. Interchange the two hitch plates, or place both at the top or bottom of the hitch, so that power line runs in a straight line as seen from the side.

5. Adjust the height of the powershaft up or down so it runs in a straight line. Be sure nuts are always to the outside.



H 1896





As a Member of the National Safety Council, we are privileged to use the Green Cross for Safety to designate not only our interest in Farm Safety, but to point out more clearly the safety precautions in this manual.

Farm Accidents Can Be Prevented *with Your Help*

NO accident prevention program can be successful without the whole-hearted cooperation of the person who is directly responsible for the operation of equipment.

To read accident reports from all over the Country is to be convinced that a large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power-driven equipment, whether it be transportation or processing, whether it be on the highway, in the harvest field, or in the industrial plant, can be safer than the man who is at the controls. If farm accidents are to be prevented—and they can be prevented—it will be done by the operators who accept a full measure of their responsibility.

It is true that the designer, the manufacturer, the safety engineer can help; and they will help, but their combined efforts can be wiped out by a single careless act of the operator.

It is said that “*the best kind of a safety device is a careful operator.*” We ask you to be that kind of an operator.

NATIONAL SAFETY COUNCIL

