

# 88-Inch Belt Pickup



JOHN DEERE

## OPERATORS MANUAL

88-Inch  
Belt Pickup

OMH90837 B2 English

**OMH90837 B2**

LITHO IN U.S.A.  
ENGLISH



## To the purchaser

This manual contains the necessary information to install, operate, lubricate, adjust, and service your new John Deere Belt Pickup attachment on 55 Combine platforms Serial No. PF-35200 and up; and all 65 and 95 Combine platforms.

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 and service of your belt pickup attachment. Your John Deere dealer has trained mechanics who are kept informed on the best John Deere service methods and will render you prompt know-how service if needed.

Should your Belt Pickup attachment require replacement parts, go to your John Deere dealer where you will receive Genuine John Deere parts—accept no substitutes.

"Right-hand" and "left-hand" sides are determined by facing in the direction the Belt Pickup attachment will travel when in use.

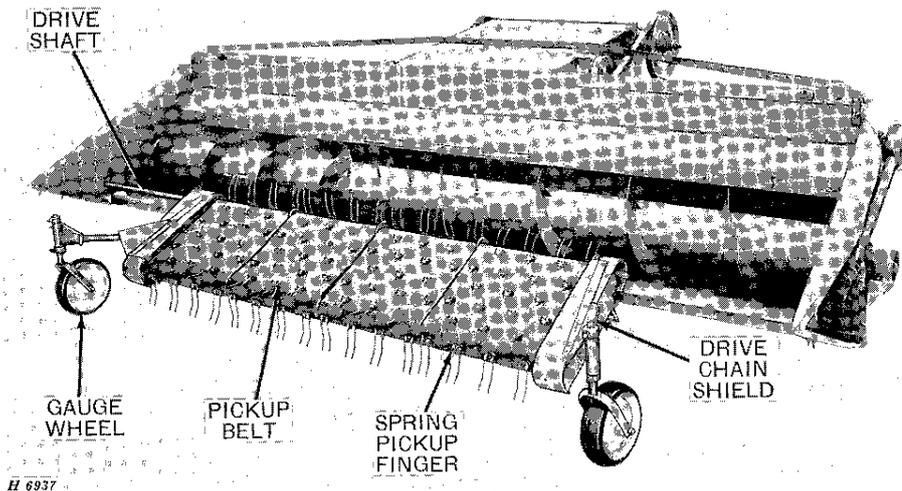
"Clockwise" refers to parts turning to the right like the hands of a clock.

"Counterclockwise" refers to parts turning to the left.

Date of purchase \_\_\_\_\_

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*Belt pickup mounted on 95 Combine platform*

**Operator's Manual Price**

## Specifications

Belt pickup width . . . . .	88 inches	Type of drive . . . . .	V-belt
Number of pickup fingers . . . .	168	Optional equipment . . . . .	Gauge wheels or runner shoes
Type of pickup fingers . . . . .	Spring- tooth		

The 88-inch belt pickup can be installed on all John Deere 55, 65, and 95 Combine platforms.

*(Specifications and design subject to change without notice)*

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## Operation

### Picking up

The belt pickup should be operated just fast enough to elevate the windrow onto the platform without tearing the windrow apart as the combine moves forward. If the crop is pushed ahead of the belt pickup the speed is too slow.

Should the belt pickup gather any foreign material, such as a rock, the operator should immediately disengage the separator and remove the foreign material before any damage can be done to the separator.

Do not overload the combine—overloading always means waste of grain and undue wear on the combine.

Be sure the grain is thoroughly dry before starting to pick up. Don't guess. Test for moisture content.

### Transporting

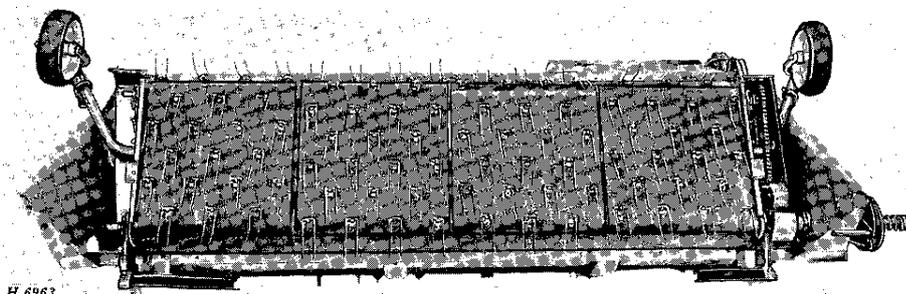
The belt pickup should be raised up off the ground for the purpose of transporting or if allowed to stand idle for a period of time on wet or muddy ground.

### Storage

Remove pickup belts and store in a dry, cool place where they will not be subject to damage by rodents. Do not roll the belts.

Protect rollers and all sheet metal parts from rust by use of paint.

Be sure to lubricate all grease fittings thoroughly before using belt pickup again.



H 6963

*Belt Pickup in transporting position*



## Safety suggestions



The safety of the operator was one of the prime considerations in the minds of John Deere engineers when this belt pickup was designed. Shielding, simple adjustments, and other safety features were built into the belt pickup wherever possible.

However, investigation of thousands of farm 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.

Never clean, oil, or adjust the belt pickup when it is running.

Clothing worn by operator should be fairly tight and belted. Loose jackets, skirts, shirts, or sleeves

should never be worn because of the danger of getting into moving parts.

Make sure everyone is clear of the combine before starting the combine or tractor engine so no one can be struck by moving parts.

Always disengage drive and shut off the combine or tractor engine before working on belt pickup.

Replace badly frayed or worn belts before they break.

Be sure shields and guards are in place and in good condition before starting in the field.

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

Never attempt to clear obstructions off the belt pickup unless the combine is stopped and the combine or tractor engine shut off.

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## Lubrication

The economical and efficient operation of any machine depends on regular and proper lubrication of all moving parts with a quality lubricant. This is especially true of farm equipment which must operate in hot, dusty conditions over rough ground. Neglected lubrication quickly leads to reduced efficiency, heavy draft, wear, breakdown, and replacement of parts.

Use a clean container for storing and handling all lubricants. See that only clean lubricants go into the working parts of your belt pickup.

Wipe dirt from grease fittings and grease gun nozzle before greasing.

Replace all missing or damaged grease fittings immediately.

### Lubrication charts

All lubrication points will be found in the lubrication charts that follow.

For all hourly lubrication points, use SAE multipurpose grease.

### Bearings

Lubricate all grease fittings thoroughly, with SAE multipurpose grease, until grease oozes out of bearing. This assures that the bearing is full, and also flushes out dirt that may have accumulated in the bearing. However, avoid excessive lubrication. Excessive lubricant that has dropped onto belts should be wiped off immediately to avoid belt slippage.

### Lubrication of chains

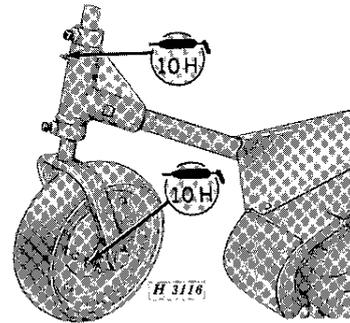
Chains should be lubricated at frequent intervals with SAE 10W oil. A paint brush is a good instrument for applying oil to chains.

**CAUTION:** Do not oil chains when operating in sandy conditions. Sand will stick to the oiled chain and act as an abrasive.

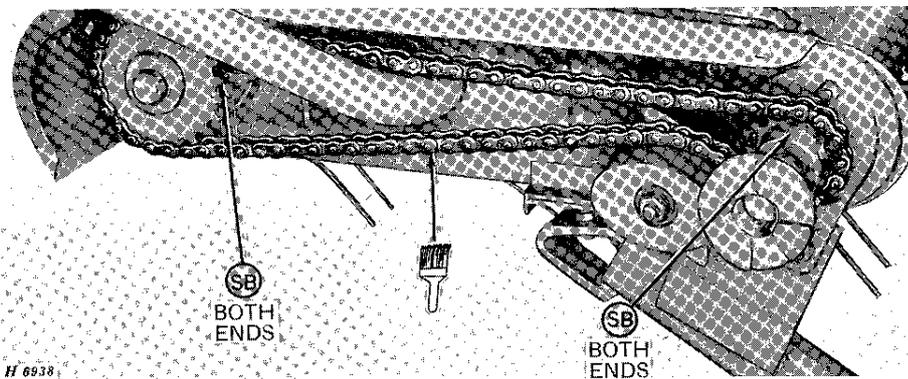


**CAUTION:** Disengage drive and shut off combine or tractor engine before lubricating the belt pickup.

SYMBOLS	
	Grease every 10 hours of operation with SAE multipurpose grease.
	Brush chain periodically with SAE 10W oil. Do not lubricate chain in dusty or sandy conditions.
	Sealed bearing. No lubrication required.



Gauge wheel



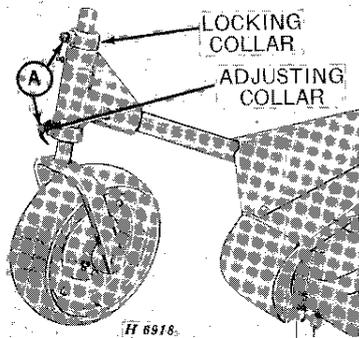
Left-hand end of belt pickup

## Adjustments and service

### Belt pickup height

The height of the belt pickup is regulated through gauge wheels or runner shoes. The belt pickup should be just low enough to allow the pickup fingers to gather in all the grain and high enough so that the fingers do not dig into the ground.

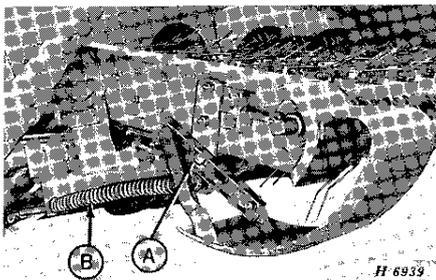
### Gauge wheel adjustment



To adjust gauge wheel height, loosen the set screws "A" in both collars and raise the adjusting collar to the desired height and tighten set screw. Fit locking collar snug against bearing support arm and tighten set screw.

Make certain both sides of belt pickup are adjusted to same height.

### Runner shoe adjustment

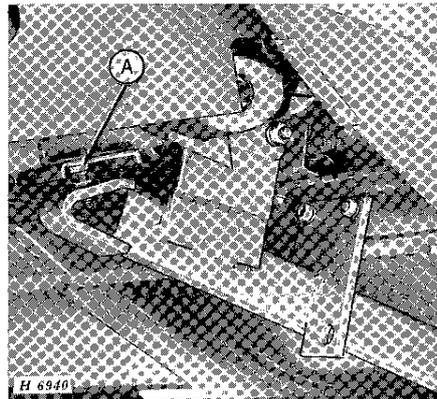


Loosen bolt "A" on runner shoe adjusting bracket and raise or lower shoe as desired; then tighten bolt. Make certain both shoes are adjusted evenly.

### Balance spring rods

Seven holes are provided in the balance spring rod so that the balance spring "B" can be compressed to prevent carrying excessive weight on the runner shoe. Make certain both sides of the belt pickup are adjusted evenly.

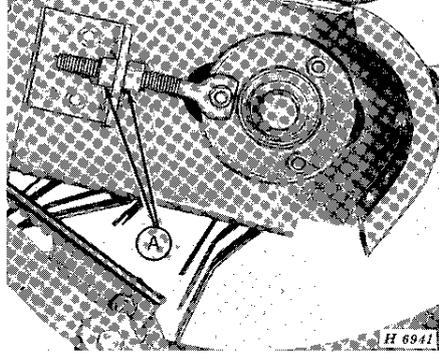
### Pitch of belt pickup



The belt pickup should be carried as level as possible when operating under normal ground conditions. When operating in rocky ground conditions, adjust the pitch of the belt pickup to prevent rocks from being carried into the platform auger.

The pitch of the belt pickup can be regulated by means of an adjustable stop "A" on the support angle. Be sure to adjust both sides of belt pickup evenly.

### Pickup belts



When operating in normal crop conditions the pickup belts should operate without slipping. Adjust tension by adjusting lock nuts "A."

**CAUTION:** Too much tension causes undue wear on pickup belts and component parts. Tighten pickup belts just enough to prevent slippage when belt pickup is operating under normal crop conditions.

It is recommended that pickup belts have approximately 1-1/2-inch free play at center of belt as shown.

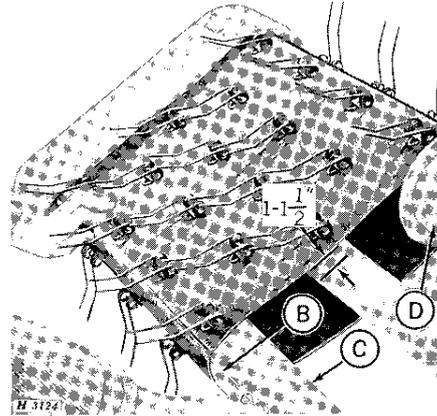
#### Removal

Relieve tension by loosening lock nuts "A." Pull lacing pin "B" out of lacings and remove belts.

#### Installation

Place belts around rollers so that the lacings come together over lower roller "C." Hold lacings together and insert pin "B." When replacing belts, install right-hand and left-hand belts before installing center belt. Obtain proper belt tension by adjusting lock nuts "A."

### Pickup fingers



If the fingers become bent or damaged they should be straightened or replaced immediately. Missing fingers will cause uneven feeding of grain to cylinder.

#### Replacement

To replace fingers, turn belt pickup drive sheave until the finger that is to be replaced is directly over larger roller "D," then remove lock nut securing finger with clips. Insert new finger and clips and secure with lock nut.

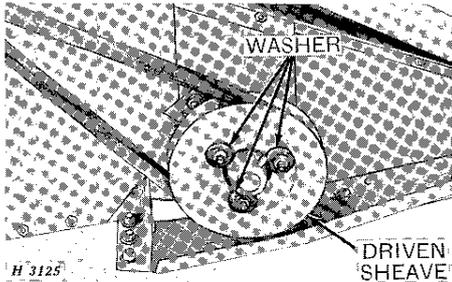
### Stripper bar

If the rubber strippers become worn, they can be turned end-for-end on the support bar by using the other series of holes provided in strippers.

If the complete top area of the rubber strippers become worn, the strippers can be turned bottom side up, also end-for-end to provide two more wearing areas.

6 adjustments and service

**Speed of belt pickup installed on 55 or 95 Combines**



The adjustable drive sheave permits a speed range from 357 to 451 rpm. Four washers are provided on each of the three bolts connecting the sheave halves.

To decrease pickup belt speed, remove washers from between the sheave halves and place them on the outside of the sheave.

To increase pickup belt speed, add washers between the sheave halves—see chart below.

A special slow speed drive sprocket is available as special equipment, and will permit a slow speed range from 255 to 322 rpm.

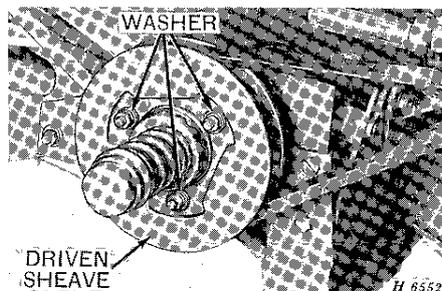
**95 COMBINES PRIOR TO SERIAL NO. PF-15001 AND  
55 COMBINES PRIOR TO SERIAL NO. PF-60001**

Number of washers between driven sheave	Speed of belt pickup with AP23970H regular 21-tooth drive sprocket	Speed of belt pickup with AP23971H special slow speed 15-tooth drive sprocket
12 (4 on each bolt)	451	322
9 (3 on each bolt)	427	305
6 (2 on each bolt)	403	289
3 (1 on each bolt)	380	272
0 (washers on inside)	357	255

**95 COMBINES, SERIAL NO. PF-15001 AND UP, AND  
55 COMBINES, SERIAL NO. PF-60001 AND UP**

Number of washers between driven sheave	Speed of belt pickup with H10984H regular 21-tooth drive sprocket
12 (4 on each bolt)	464
9 (3 on each bolt)	439
6 (2 on each bolt)	412
3 (1 on each bolt)	388
0 (washers on inside)	365

### Speed of belt pickup installed on 65 Combines



To decrease pickup belt speed, remove washers from between the sheave halves and place them on the outside of the sheave.

To increase pickup belt speed, add washers between the sheave halves—see chart below.

A special slow speed drive sheave is available as special equipment and will permit slow speeds from 259 to 316 rpm.

The adjustable drive sheave permits a speed range from 343 to 431 rpm. Four washers are provided on each of the three bolts connecting the sheave halves.

Number of washers between driven sheave	Speed of belt pickup with regular drive sheave PK1922H	Speed of belt pickup with slow speed sheave PK694H
12 (4 on each bolt)	431	316
9 (3 on each bolt)	411	300
6 (2 on each bolt)	392	287
3 (1 on each bolt)	368	270
0 (washers on inside)	353	259

### Belt pickup variable speed adjustment for 55 and 95 Combines

If the 55 or 95 Combine is equipped with a variable speed reel, belt pickup speeds can be greatly increased or decreased over the conventional speed ranges given on page 6. The desired speed may be selected by use of the lever on the operator's platform after doing the following:

Remove all washers between PK1711H and PK1712H adjustable sheave halves, to obtain a speed range of 163 to 445 rpm.

Place four washers between PK1711H and PK1712H adjustable sheave halves, to obtain a speed range of 206 to 562 rpm.

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