

JOHN DEERE 88-, 110-, AND 132-INCH THREE-ROLLER BELT PICKUPS



JOHN DEERE

OPERATORS MANUAL JOHN DEERE 88-, 110-, AND 132-INCH THREE-ROLLER BELT PICKUPS

OMH86809 J3 English

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ENGLISH





To the Purchaser

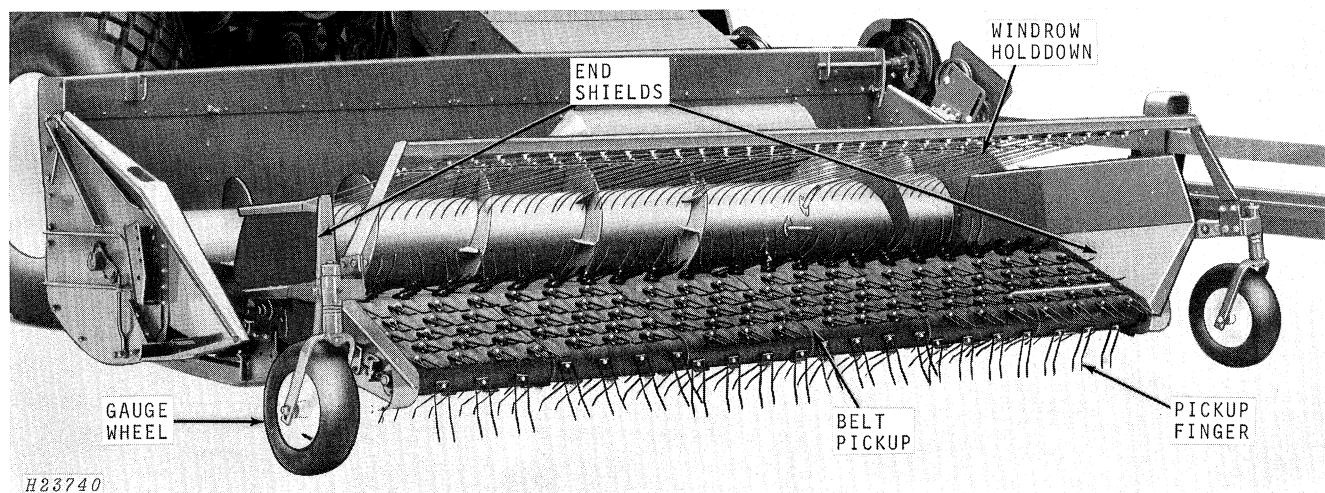
This new belt pickup was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, or adjustments and service. Read the Table of Contents to learn where each section is located.

 This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

“Right-hand” and “left-hand” sides are determined by facing in the direction the belt pickup will travel when in use.

Record the date of purchase in the space provided on page 33. Your dealer needs this information to give you prompt, efficient service when you order parts. If your belt pickup requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

The warranty on this belt pickup appears on your copy of the purchase order which you should have received from your dealer when you purchased the belt pickup.





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Operation

PICKUP SPEED

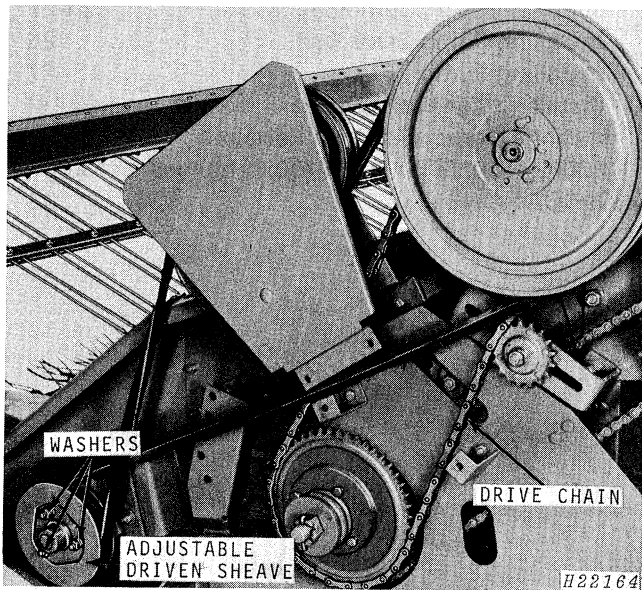
Successful operation depends largely upon the speed and pitch of the belt pickup.

If the crop is pushed ahead of the belt pickup or if it does not release from the stripper, pickup speed is too slow.

If the windrow is torn apart as it is elevated onto the platform, pickup speed is too fast.

Mechanical Drive

Speeds within the range of 387 to 490 rpm on 6601 Combines and 348 to 440 rpm on 3300, 4400, 6600, and 7700 Combines are obtained by changing location of the washers on the adjustable driven sheave.



6601 Combine Illustrated

To decrease speed, remove washers from between sheave halves and place them on the outside as shown above.

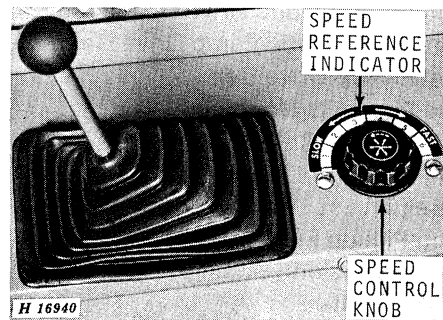
To increase speed, add these washers between the sheave halves.

One set of washers alters the speed approximately 23 rpm.

Hydrostatic Drive

The hydrostatic belt pickup drive attachment on 3300, 4400, 6600, and 7700 Combines enables the operator to vary the speed of the belt pickup without leaving the operator's platform.

The belt pickup speed may be changed from 50 rpm to 450 rpm by turning the control knob on the console.



To increase the speed, turn the knob toward FAST. To decrease the speed, turn the knob toward SLOW.

Use the reference indicator as a guide to return to the belt pickup speed that was previously found best for a particular crop or field condition.

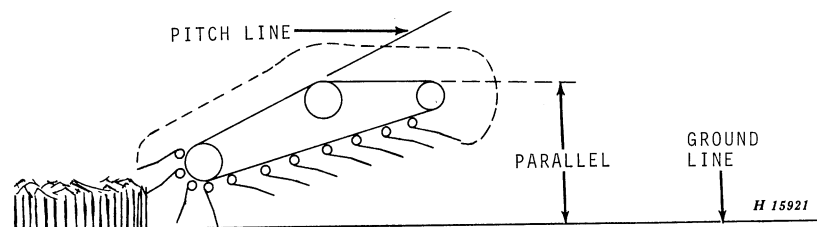
PICKUP PITCH

In addition to proper speed, correct pitch of the belt pickup is important for good pickup operation.

By raising or lowering the platform, pitch can be regulated to accommodate varying field and crop conditions. Raise the platform to increase pitch; lower the platform to decrease pitch.

If the pitch is altered considerably, check the distance between the pickup fingers and the ground. If the fingers are digging into the ground, lower the gauge wheel; if the fingers are not low enough to gather all the grain, raise the gauge wheel. (See Adjusting Gauge Wheels, page 4).

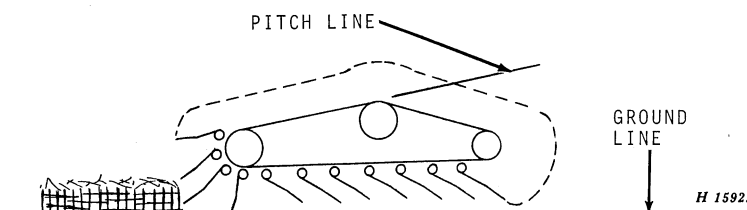
Normal Windrow Condition



If the ground conditions are normal and the windrow is lying on top of the stubble and off the ground, operate the belt pickup as level as possible between the center and drive rollers.

This portion of the belt pickup should be parallel with the ground, to provide good pickup and direct, positive feeding to the platform auger.

Poor Windrow Condition

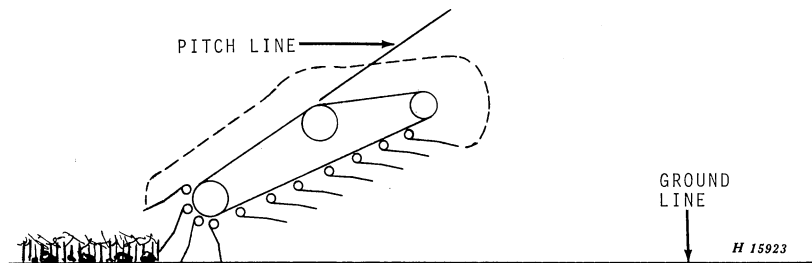


If the windrow is embedded in the stubble, if the stubble is short, or if the windrow is lying on the ground, decrease the pitch of the pickup. This position will allow more fingers to come closer to the ground, providing a better combing action.

When the pitch is decreased, the pickup fingers may pick up dirt. To eliminate this condition, lower the gauge wheels 1/2 inch at a time until the fingers no longer dig into the ground. (See Adjusting Gauge Wheels, page 4).

IMPORTANT: Do not decrease pitch to a point where the pickup bottom is parallel with the ground. This will allow the lower mounting arms to dig into the ground in dips and swales and cause serious damage to the platform.

Rocky Conditions



Increase the pitch of the belt pickup only in rocky conditions to prevent rocks from being carried into the platform auger. Check stone trap daily and clean out any stones.

IMPORTANT: When operating in this position, make certain the gauge wheels are in full contact with the ground to prevent missing strips of the crop.

Because of the increased pitch, windrow delivery to the platform auger may tend to feed higher than normal. To control this condition, adjust the hold-down to its lowest position (page 5) and reduce the speed of the belt pickup (page 2).

PICKUP HEIGHT

If the pitch is altered considerably, check the distance between the pickup fingers and the ground. Operate the belt pickup just low enough to allow the pickup fingers to gather in all the grain, but high enough so fingers do not dig into the ground.

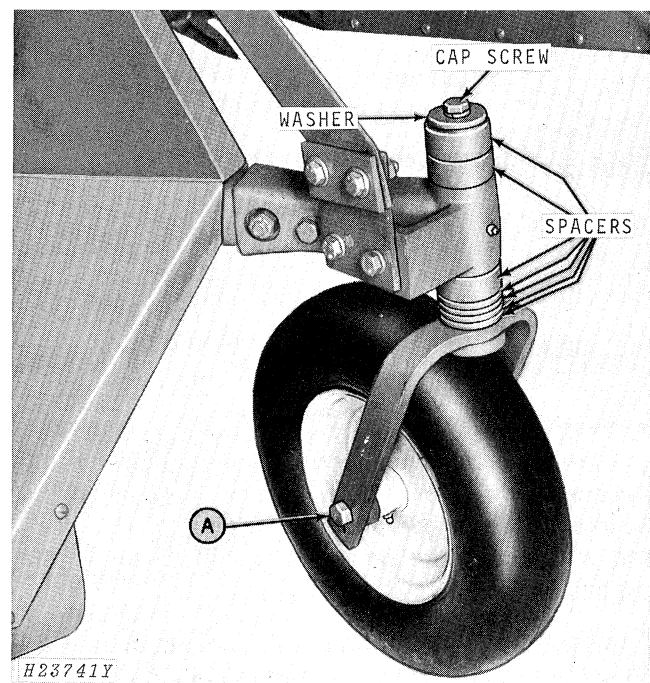
The distance between pickup fingers and the ground is regulated by adjusting the gauge wheels up or down. If fingers are digging into the ground, lower the gauge wheels. If fingers are not low enough to gather all the grain, raise the gauge wheels.

Adjusting Gauge Wheels

To adjust the gauge wheel, first remove the cap screw and washer.

To raise the gauge wheel, position the spacers on top of yoke bearing.

To lower the gauge wheel, position the spacers below the yoke bearing.

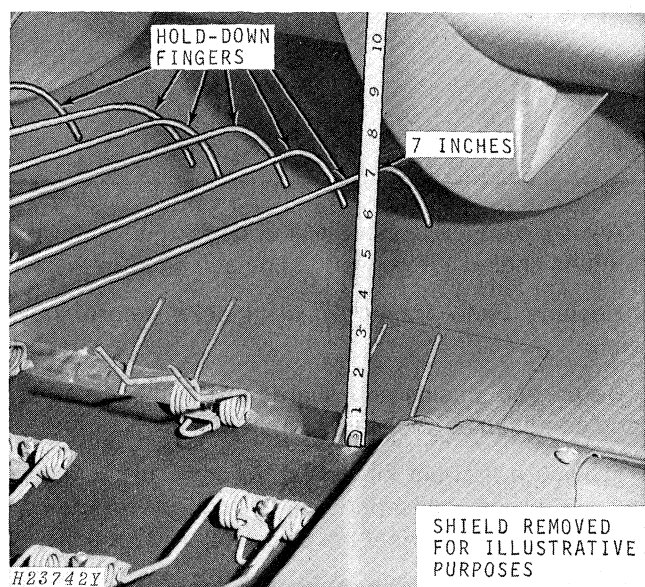


After adjusting gauge wheel, replace washer and cap screw.

Always keep wheel assembly in upper hole "A".

ADJUSTING WINDROW HOLD-DOWN

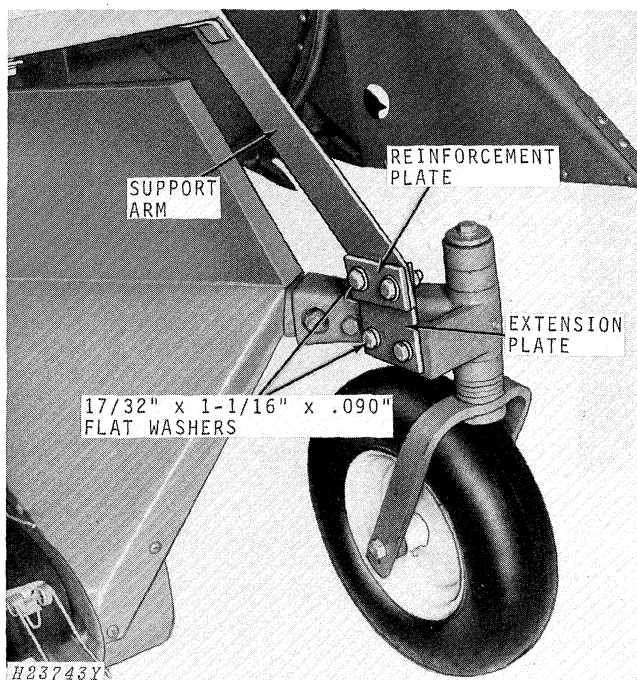
The windrow hold-down eliminates bunching and overriding by deflecting the windrow downward into the platform auger.



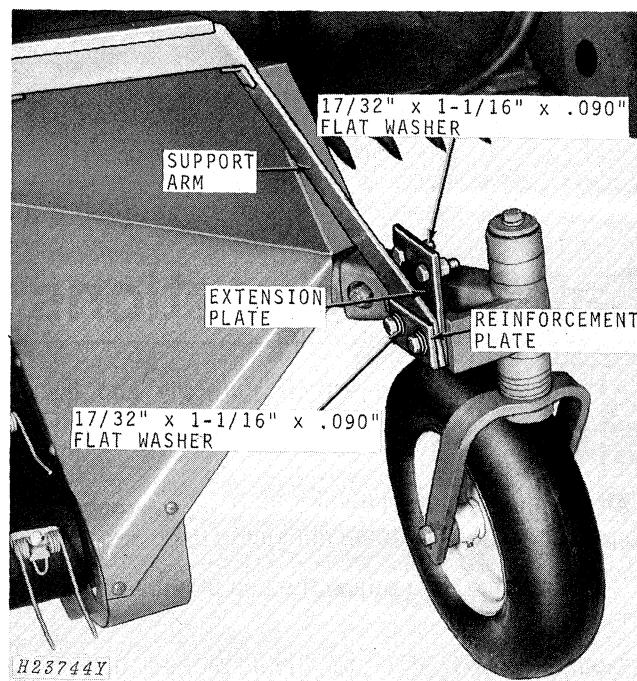
The hold-down must be adjusted so the fingers are 7 inches from the roller as shown. This is important to assure proper feeding under the platform auger.

To adjust hold-down, loosen the upper cap screws and lift or push down on fingers until the desired height is obtained. Tighten cap screws after adjusting.

The hold-down is shipped in HIGH POSITION and in most cases should be left in this position. However,



High Position



Low Position

if the windrow is very light with short straw, the hold-down should be placed in LOW POSITION.

After changing to low position, place the 1/2 x 1-1/2-inch cap screws in the top holes in the extension plate for safe keeping. The 1/2 x 1-3/4-inch cap screws are always used when the reinforcement plate, support arm and the extension plate are bolted together.

Check to be sure there is still a 7-inch dimension from hold-down fingers to roller. Readjust if necessary.

TRANSPORTING

When transporting the belt pickup, raise the platform to its highest position and lower the hydraulic cylinder safety stop.

See combine operator's manual for other transporting instructions and safety precautions when driving on a road or highway.

STORAGE

Do not allow belt pickup to stand idle on wet or muddy ground.

Remove pickup belts and store in a dry cool place where they will not be damaged. Do not roll the belts.

Paint rollers and all sheet metal parts to prevent rust.

Lubricate all grease fittings thoroughly before using belt pickup again.



Safety Suggestions

⚠ 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, shirts, or sleeves should never be worn because of the danger of getting into moving parts.

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

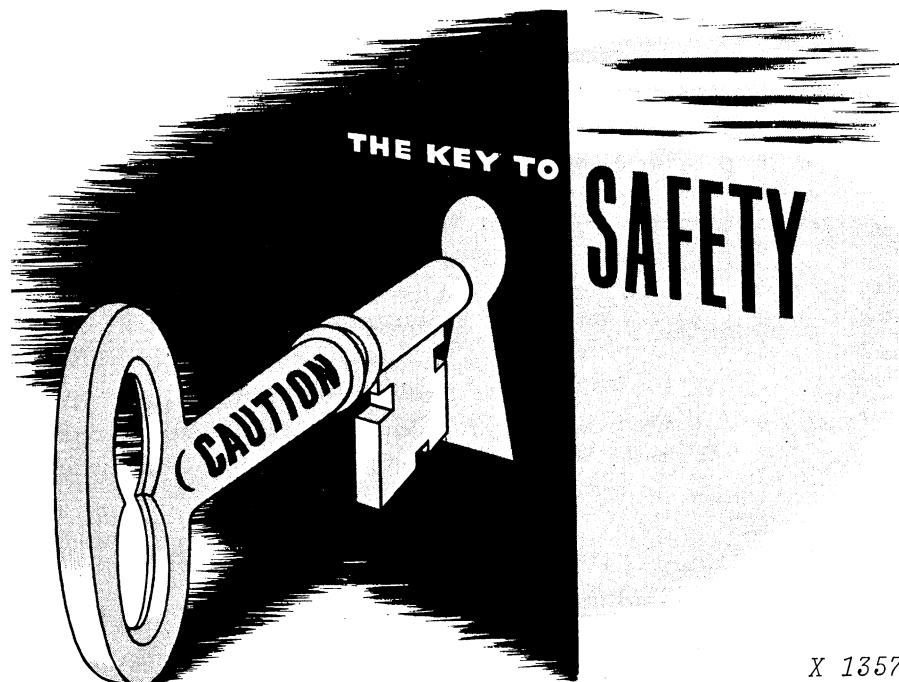
Always disengage drive and shut off the tractor or combine engine before working on belt pickup.

Replace badly frayed or worn belts before they break.

Be certain 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 tractor or combine engine is shut off.



X 1357



Lubrication

SYMBOLS



Lubricate with John Deere Multi-Purpose lubricant or an equivalent SAE multi-purpose type grease at hourly intervals indicated on the symbols.



CAUTION: Never lubricate or service pickup while it is running.

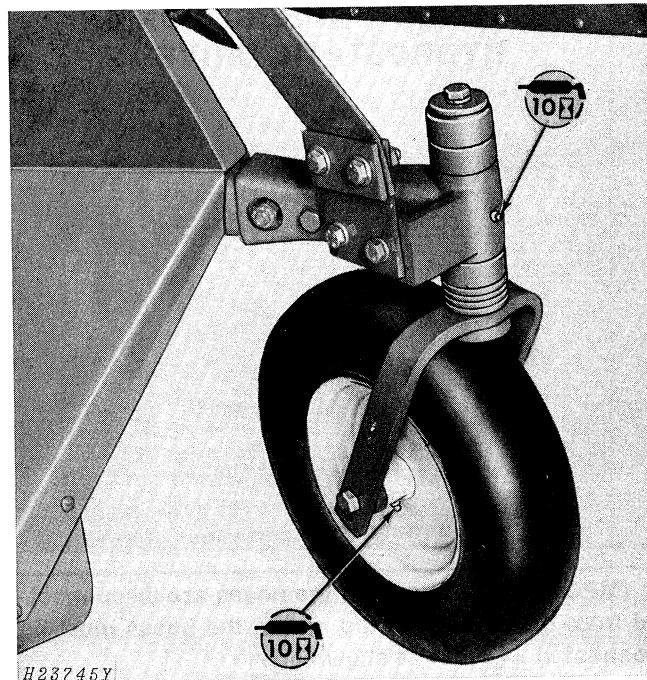
KEEP LUBRICANTS CLEAN

Use only high-grade lubricants which have been stored in clean containers. Wipe grease fittings clean before lubricating.

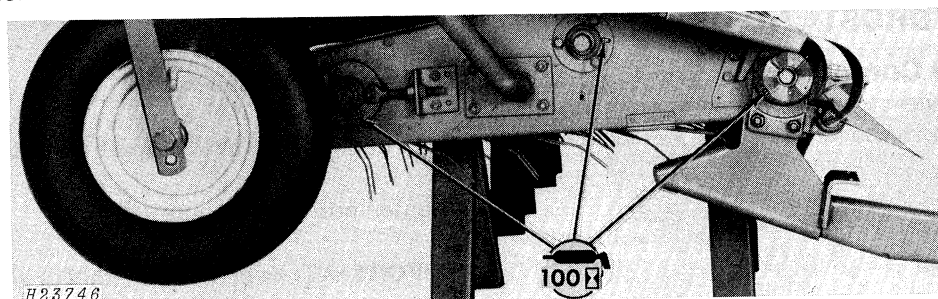
LUBRICATING CHAINS

Lubricate chains at frequent intervals with SAE 30 oil. Operate chains for several minutes so they are warm when oil is applied.

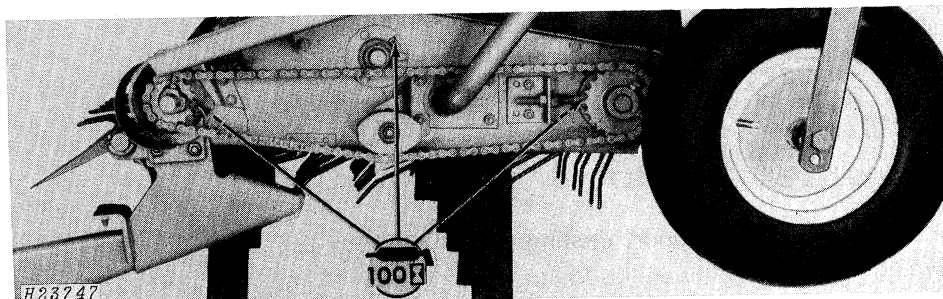
NOTE: Genuine John Deere Chain Lube in an aerosol can (part number PT508) may be obtained from your John Deere dealer. This is an ideal lubricant for roller drive chains.



Lubricating Gauge Wheels



Lubricating Bearings, Left-Hand Side

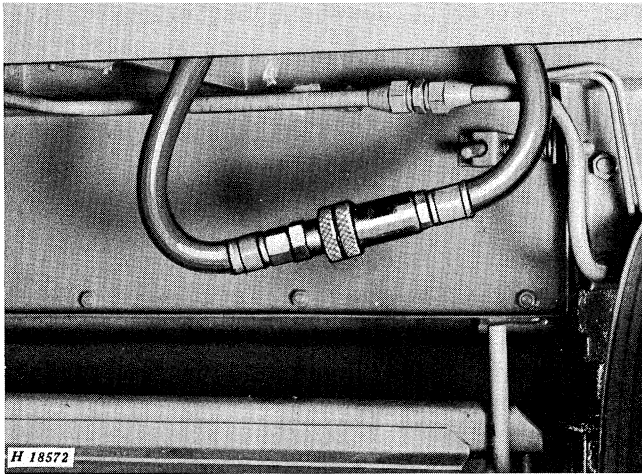


Lubricating Bearings, Right-Hand Side



Service

CONNECTING HOSES ON HYDROSTATIC DRIVE

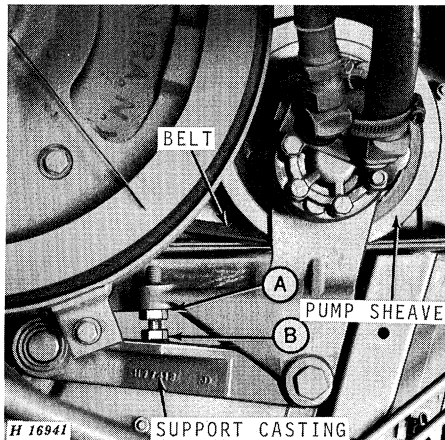


IMPORTANT: Whenever the hoses are disconnected from the oil lines to the motor, the hoses must be connected together as shown above.

If the hoses are not connected when the separator is engaged, extensive damage will result to the pump.

TIGHTENING PUMP DRIVE BELT ON HYDROSTATIC DRIVE

3300 and 4400 Combines



Loosen lock nut "A."

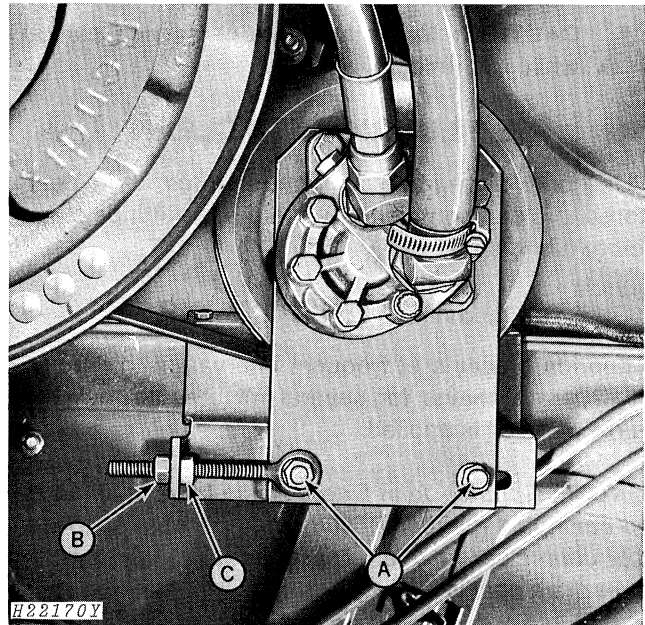
Turn cap screw "B" out against support casting, forcing pump sheave against belt.

Tighten belt until it will operate without slipping.

Tighten lock nut "A."

IMPORTANT: Keep this belt tight at all times.

6600 and 7700 Combines



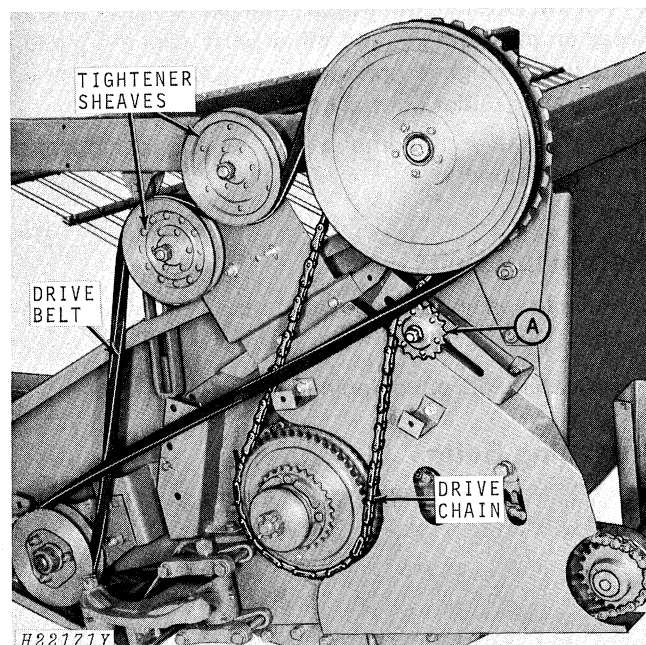
Loosen nuts "A" and nut "B."

Turn nut "C" until belt will operate without slipping.

Tighten nut "B" and nuts "A."

IMPORTANT: Keep this belt tight at all times.

ADJUSTING PICKUP DRIVE BELT



Tighten drive belt just enough so that belt slippage will not occur in normal operation. Loosen nuts on the tightener sheave with the most slot space available and adjust sheave as necessary to obtain proper belt tension.

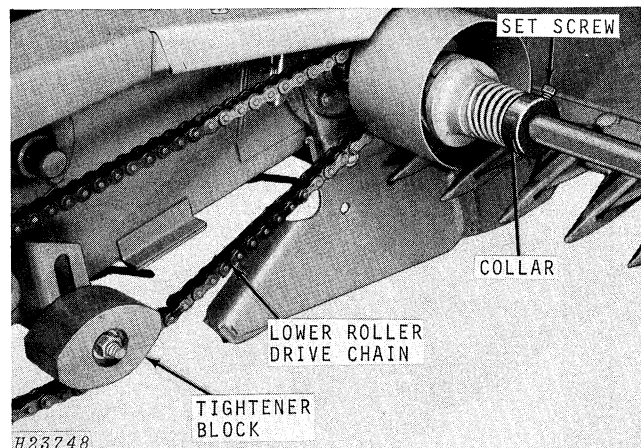
ADJUSTING PICKUP DRIVE CHAIN

Loosen nut "A." See illustration above.

Move tightener against chain. Chain is at proper tension when it will operate without climbing or jumping sprockets.

Tighten nut "A."

ADJUSTING BACKUP CLUTCH



88- and 132-Inch Pickup Illustrated

Pickup drives on the 3300, 4400, 6600, and 7700 Combines are protected by a backup clutch located on the drive shaft. Collar should be set with just enough tension so clutch works without slipping. Do not increase tension to a point where clutch will not slip.

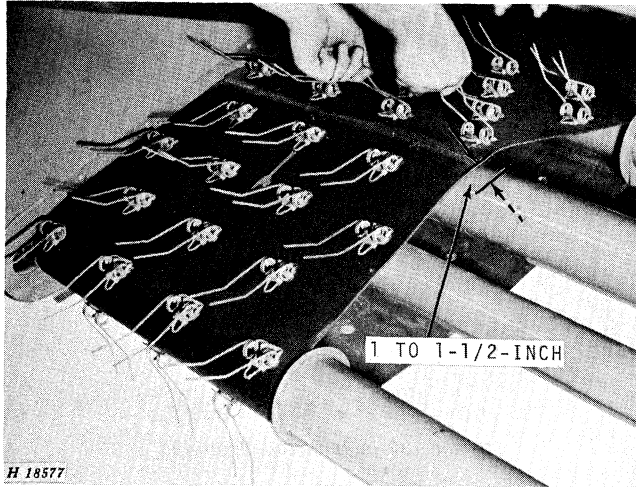
ADJUSTING LOWER ROLLER DRIVE CHAIN

Adjust chain tension so that chain is just tight enough to run without climbing or jumping sprockets. Be certain that all sprockets are properly aligned.

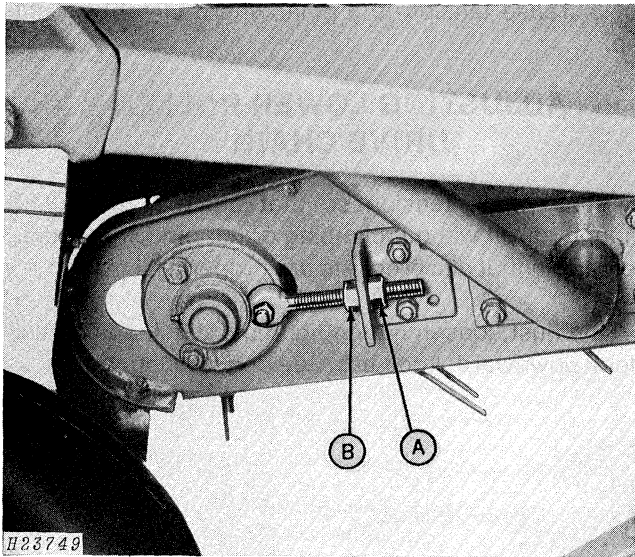
To adjust, loosen nut on tightener block and adjust block downward. Lock nut. See above illustration.

PICKUP BELTS

Adjusting Tension



The pickup belts should have 1 to 1-1/2-inch free play between center of belt and middle roller. Check this dimension by lifting on fingers over center roller.



110-Inch Pickup Illustrated

To tighten belts, loosen nuts "A" and tighten nuts "B." Lock nuts "A."

To loosen belts, loosen nuts "B" and tighten nuts "A." Lock nuts "B."

IMPORTANT: Too much tension causes undue wear on pickup belts and other parts. Tighten pickup belts just enough to prevent slipping when belt pickup is operating under normal crop conditions.

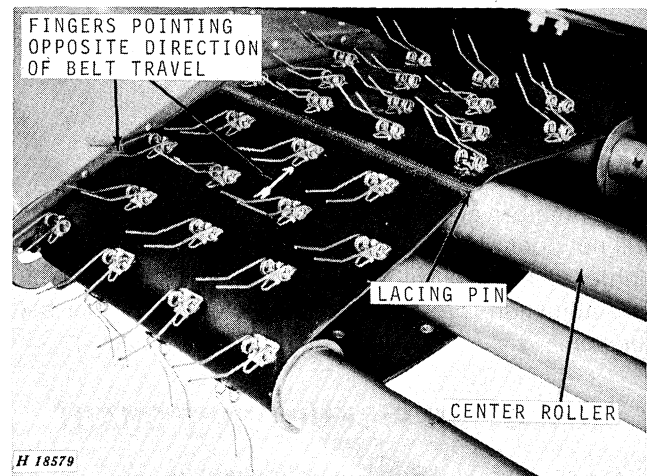
If belts ever become wet, recheck tension after they have dried.

Removing Belts

Relieve tension by loosening nuts "B" and tightening nuts "A."

Pull lacing pin out of lacings and remove belts.

Installing Belts



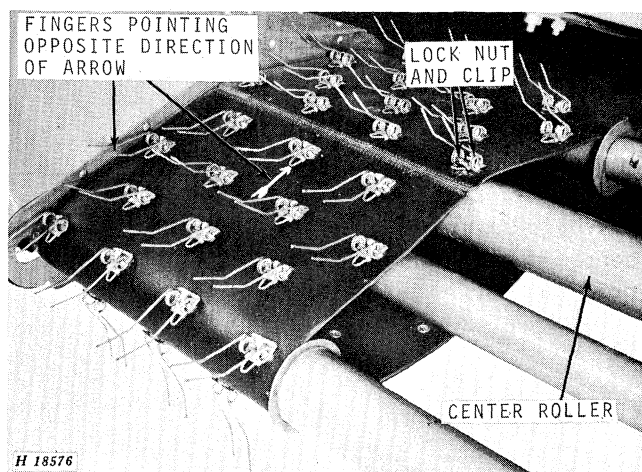
Install right-hand and left-hand belts before installing center belt to keep the ends of the rollers from spreading. Make certain fingers point opposite the direction of belt travel.

Place belts around rollers so that lacings come together over the center roller. Hold lacings together and insert lacing pin. Bend straight end of pin 90 degrees.

Adjust tension of belts.

REPLACING PICKUP FINGERS

If the fingers become worn, bent, or damaged, straighten or replace them immediately.



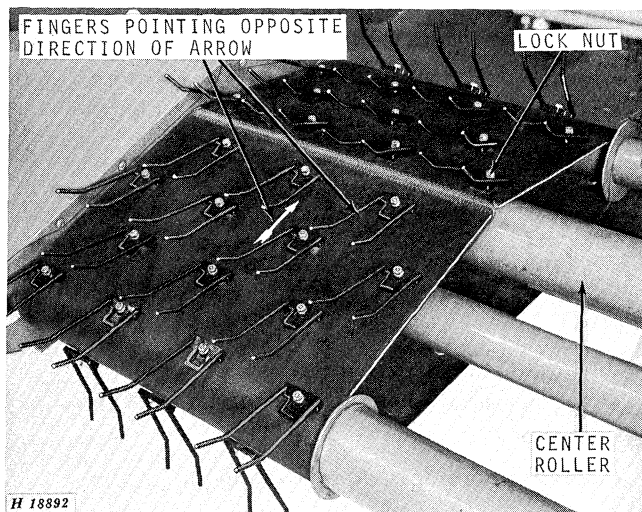
Spring-Tooth Fingers

Turn belt pickup drive sheave until the finger that is to be replaced is directly over the center roller.

Spring Tooth Finger: Remove lock nut, clip, and finger. Install new finger so it points opposite the direction of belt travel. Secure with clip and lock nut.

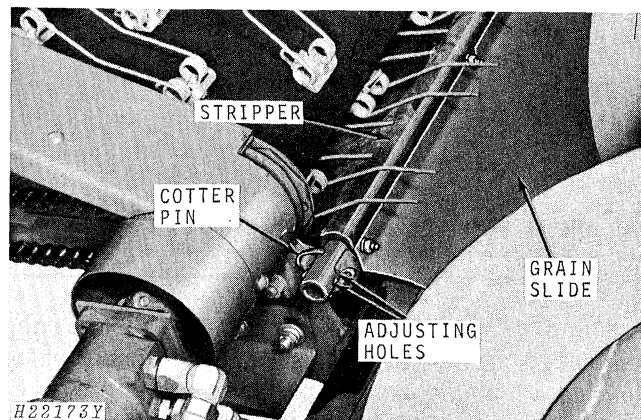
Synthetic Plastic Finger: Remove nut and finger. Install new finger so it points opposite the direction of belt travel. Secure with nut, making sure shoulder of bolt is seated in base of finger. (Tighten to 45-65 in-lbs torque).

NOTE: Be sure the sheared edge of bolt head is leading with direction of belt travel.



Synthetic Plastic Finger

STRIPPER



Shield Removed for Illustrative Purposes

If the rubber stripper becomes worn, remove cotter pins from both ends of the stripper bar, move bar over, and replace cotter pins in the adjacent holes. Be certain to spread cotter pins.

When the platform has a cutter bar, the stripper must remain over the cutter bar as shown to protect the knife guards from damage.

If the platform has no cutter bar and the stripper is worn, turn the stripper on the bar to expose a new surface by punching a new row of holes and replacing the stripper.

TIRE INFLATION

Keep belt pickup tires inflated to 12 psi air pressure.



Trouble Shooting

The majority of belt pickup operating problems can be traced to improper adjustment. The chart which follows will help you when problems develop by suggesting a probable cause and the recommended remedy.

When you are trying to solve a problem, be sure the source is not from some place other than where the problem exists.

Problem	Cause	Remedy	Page
Windrow difficult to pick up on strips of crop not being picked up.	Short crop down in the stubble embedded in drill or wheel furrows.	Raise gauge wheels to allow fingers to run closer to ground.	4
	Gauge wheels not always contacting ground.	Lower platform to allow pickup to operate at less pitch.	--
	Pickup speed too slow.	Increase pickup speed.	2
Picking up dirt.	Improper gauge wheel setting.	Lower gauge wheels to prevent pickup fingers from digging in ground.	4
	Pitch of pickup too flat.	Raise platform so area between center and drive rollers is parallel with ground.	--
	Excessive pickup speed.	Decrease speed of pickup.	2
Picking up stones.	Improper gauge wheel setting.	Lower gauge wheels (1/2-inch increments) to increase finger clearance to ground.	4
	Excessive pickup speed.	Decrease speed of pickup.	2
	Pitch of pickup too flat.	Raise platform to increase pitch.	--
Pickup feeds too high on auger.	Excessive pitch on pickup.	Lower platform so area between center and drive rollers is parallel with ground.	--
	Hold-down fingers not adjusted properly.	Adjust hold-down fingers to provide more compression of crop at rear of pickup.	5
	Excessive pickup speed.	Decrease speed of pickup.	2
Windrow rolls ahead of pickup.	Speed of pickup too slow.	Increase speed of pickup.	2
		Lower hold-down to low position.	5
		Increase speed of pickup.	2
Material builds up at pickup stripper or builds up between pickup stripper and auger.	Speed of pickup too slow.		
	Platform auger not adjusted properly.	Adjust platform auger down. Check auger finger adjustment. See combine operator's manual.	--
Material bunching on pickup.	Improper hold-down adjustment.	Raise hold-down to high position.	5
Platform auger plugging.	Auger not adjusted properly.	Increase auger clearance to platform bottom. Check auger fingers. See combine operator's manual.	--



Assembly and Installation

SHIPPING BUNDLES 88-INCH BELT PICKUP

Description	3300	4400	6600	7700
Sprocket	AH 76718	AH 76718	AH 76718	AH 76718
Stripper	BH 75743	BH 75743	BH 75743	BH 75743
Stripper Support Plate	BH 75753	BH 75753	BH 75753	BH 75753
Frame	BH 75843	BH 75843	BH 75843	BH 75843
Hold-Down	BH 75818	BH 75818	BH 75818	BH 75818
+Arm Assembly Supports or	BH 75022	BH 75022	BH 75022	BH 75022
†Arm Assembly Supports	BH 75751	BH 75751	BH 75751	BH 75751
Bracket Supports	BH 75096	BH 75096	BH 75096	BH 75096
Belts, Spring Finger, (2 Used) or	BH 60589	BH 60589	BH 60589	BH 60589
Belts, Synthetic Plastic Finger				
(2 used)	BH 60591	BH 60591	BH 60591	BH 60591
* Countershaft Parts	BH 75933	BH 75933	BH 75933	BH 75933
Drive Parts	BH 75752	BH 75752	BH 75752	BH 75752
Bracket	BH 75100	BH 75100	BH 75100	BH 75100
Clutch Assembly	H 79704	H 79704		
Drive Shaft 10-ft. Platform	H 35415	H 35415	H 35415	H 35415
Drive Shaft 13-ft. Platform	H 35416	H 35416	H 35416	H 35416
Drive Shaft 14-ft. Platform	H 62946	H 62946	H 62946	H 62946
Drive Shaft 15-ft. Platform		H 35417	H 35417	H 35417
Drive Shaft 16-ft. Platform		H 79705	H 79705	H 79705
Drive Shaft 18-ft. Platform	BH 75932	BH 75932	BH 75932	BH 75932
Hydrostatic Drive	BH 75290	BH 75290	BH 75290	BH 75290
Bracket	H 85042	H 85042	H 85042	H 85042
Bracket	BH 75098	BH 75098	BH 75099	BH 75099
* * Hose Assembly		or		
		BH 75099		
* * Line 10-ft. Platform (2 used)	AH 77474	AH 77474		
* * Line 13-ft. Platform (2 used)	AH 77475	AH 77475	AH 77475	AH 77475
* * Line 14-ft. Platform (2 used)	AH 77476	AH 77476	AH 77476	AH 77476
* * Line 15-ft. Platform (2 used)	AH 77477	AH 77477	AH 77477	AH 77477
* * Line 16-ft. Platform (2 used)		AH 77478	AH 77478	AH 77478
* * Line 18-ft. Platform (2 used)		AH 77479	AH 77479	AH 77479
Hose 10-ft. Platform (2 used)	AH 77860	AH 77860		
Hose 13-ft. Platform (2 used)	AH 77862	AH 77862	AH 77862	AH 77862
Hose 14-ft. Platform (2 used)	AH 77863	AH 77863	AH 77863	AH 77863
Hose 15-ft. Platform (2 used)	AH 77864	AH 77864	AH 77864	AH 77864
Hose 16-ft. Platform (2 used)		AH 77865	AH 77865	AH 77865
Hose 18-ft. Platform (2 used)		AH 77866	AH 77866	AH 77866

* Not required if belt pickup is to be mounted on cutting platform equipped with fixed drive reel.

* * Not required if belt pickup is to be mounted on cutting platform equipped with hydrostatic drive reel.

+ To be used on cutting platform with belt drive only.

† To be used on pickup platform with belt drive or hydrostatic drive and cutting platform with hydrostatic drive only.

110-INCH BELT PICKUP

Description	3300	4400	6600	6601	7700
Coupler				BH 75409	
Sprocket	AH 76718	AH 76718	AH 76718		AH 76718
Stripper	BH 75744	BH 75744	BH 75744	BH 75744	BH 75744
Stripper Support Plate	BH 75753	BH 75753	BH 75753	BH 75753	BH 75753
Frame	BH 75844	BH 75844	BH 75844	BH 75844	BH 75844
Hold-Down	BH 75819	BH 75819	BH 75819	BH 75819	BH 75819
† Arm Assembly Supports or	BH 75022	BH 75022	BH 75022		BH 75022
† Arm Assembly Supports	BH 75751	BH 75751	BH 75751	BH 75751	BH 75751
Bracket	BH 75096	BH 75096	BH 75096	BH 75095	BH 75096
Belts, Spring Finger	BH 60589	BH 60589	BH 60589	BH 60589	BH 60589
Belts, Spring Finger, or	BH 60590	BH 60590	BH 60590	BH 60590	BH 60590
Belts, Synthetic Plastic Finger	BH 60591	BH 60591	BH 60591	BH 60591	BH 60591
Belts, Synthetic Plastic Finger	BH 60592	BH 60592	BH 60592	BH 60592	BH 60592
* Countershaft Parts	BH 75933	BH 75933	BH 75933		BH 75933
Drive Parts	BH 75752	BH 75752	BH 75752	BH 75752	BH 75752
Bracket	BH 75291	BH 75291	BH 75291	BH 75290	BH 75291
Clutch	BH 75100	BH 75100	BH 75100		BH 75100
Drive Shaft 13-ft. Platform	H 79707	H 79707	H 79707	H 64330	H 79707
Drive Shaft 14-ft. Platform	H 79708	H 79708	H 79708		H 79708
Drive Shaft 15-ft. Platform	H 79709	H 79709	H 79709		H 79709
Drive Shaft 16-ft. Platform		H 79710	H 79710		H 79710
Drive Shaft 18-ft. Platform		H 79711	H 79711		H 79711
Drive Shaft 20-ft. Platform		H 79712	H 79712		H 79712
Drive Shaft 22-ft. Platform			H 79713		H 79713
Drive Shaft 24-ft. Platform					H 79714
Hydrostatic Drive	BH 75932	BH 75932	BH 75932		BH 75932
Bracket	BH 75291	BH 75291	BH 75291		BH 75291
Bracket	H 85041	H 85041	H 85041		H 85041
* * Hose Assembly	BH 75098	BH 75099	BH 75099		BH 75099
		or			
		BH 75098			
* * Line 13-ft. Platform (2 used)	AH 77475	AH 77475	AH 77475		AH 77475
* * Line 14-ft. Platform (2 used)	AH 77476	AH 77476	AH 77476		AH 77476
* * Line 15-ft. Platform (2 used)	AH 77477	AH 77477	AH 77477		AH 77477
* * Line 16-ft. Platform (2 used)		AH 77478	AH 77478		AH 77478
* * Line 18-ft. Platform (2 used)		AH 77479	AH 77479		AH 77479
* * Line 20-ft. Platform (2 used)		AH 77480	AH 77480		AH 77480
* * Line 22-ft. Platform (2 used)			AH 77481		AH 77481
* * Line 24-ft. Platform					AH 77482
Hose 13-ft. Platform (2 used)	AH 77861	AH 77861	AH 77861		AH 77861
Hose 14-ft. Platform (2 used)	AH 77862	AH 77862	AH 77862		AH 77862
Hose 15-ft. Platform (2 used)	AH 77863	AH 77863	AH 77863		AH 77863
Hose 16-ft. Platform (2 used)		AH 77864	AH 77864		AH 77864
Hose 18-ft. Platform		AH 77865	AH 77865		AH 77865
Hose 20-ft. Platform (2 used)		AH 77866	AH 77866		AH 77866
Hose 22-ft. Platform (2 used)			AH 77867		AH 77867
Hose 24-ft. Platform (2 used)					AH 77868

* Not required if belt pickup is to be mounted on cutting platform equipped with fixed drive reel.

* * Not required if belt pickup is to be mounted on cutting platform equipped with hydrostatic drive reel.

† To be used on cutting platform with belt drive only.

† To be used on pickup platform with belt drive or hydrostatic drive and cutting platform with hydrostatic drive only.

132-INCH BELT PICKUP

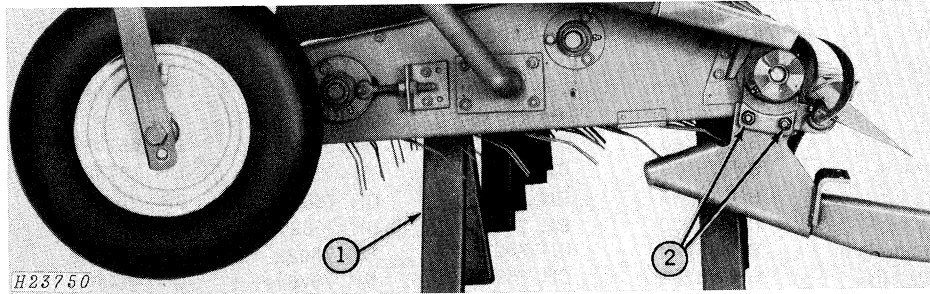
Description	3300	4400	6600	6601	7700
Coupler				BH 75409	
Sprocket	AH 76718	AH 76718	AH 76718		AH 76718
Stripper	BH 75745	BH 75745	BH 75745	BH 75745	BH 75745
Stripper Support Plate	BH 75753	BH 75753	BH 75753	BH 75753	BH 75753
Frame	BH 75845	BH 75845	BH 75845	BH 75845	BH 75845
Hold-Down	BH 75820	BH 75820	BH 75820	BH 75820	BH 75820
+ Arm Assembly Supports or	BH 75022	BH 75022	BH 75022	BH 75022	BH 75022
† Arm Assembly Supports	BH 75751	BH 75751	BH 75751	BH 75751	BH 75751
Bracket	BH 75096	BH 75096	BH 75096	BH 75095	BH 75096
Belts, Spring Finger (2 used) or	BH 60590	BH 60590	BH 60590	BH 60590	BH 60590
Belts, Synthetic Plastic Finger					
(2 used)	BH 60592	BH 60592	BH 60592	BH 60592	BH 60592
Countershaft Parts	BH 75933	BH 75933	BH 75933		BH 75933
Drive Parts	BH 75752	BH 75752	BH 75752	BH 75752	BH 75752
Bracket	BH 75290	BH 75290	BH 75290	BH 75290	BH 75290
Clutch	BH 75100	BH 75100	BH 75100		BH 75100
Drive Shaft 13-ft. Platform				H 64332	
Drive Shaft 14-ft. Platform	H 79706	H 79706	H 79706		H 79706
Drive Shaft 15-ft. Platform	H 79707	H 79707	H 79707		H 79707
Drive Shaft 16-ft. Platform		H 79708	H 79708		H 79708
Drive Shaft 18-ft. Platform		H 79710	H 79710		H 79710
Drive Shaft 20-ft. Platform		H 79711	H 79711		H 79711
Drive Shaft 22-ft. Platform			H 79712		H 79712
Drive Shaft 24-ft. Platform					H 79713
Hydrostatic Drive	BH 75932	BH 75932	BH 75932		BH 75932
Bracket	BH 75290	BH 75290	BH 75290		BH 75290
Bracket	H 85042	H 85042	H 85042		H 85042
* * Hose Assembly	BH 75098	BH 75098	BH 75099		BH 75099
		or			
		BH 75099			
* * Line 14-ft. Platform (2 used)	AH 77476	AH 77476	AH 77476		AH 77476
* * Line 15-ft. Platform (2 used)	AH 77477	AH 77477	AH 77477		AH 77477
* * Line 16-ft. Platform (2 used)		AH 77478	AH 77478		AH 77478
* * Line 18-ft. Platform (2 used)		AH 77479	AH 77479		AH 77479
* * Line 20-ft. Platform (2 used)		AH 77480	AH 77480		AH 77480
* * Line 22-ft. Platform (2 used)			AH 77481		AH 77481
* * Line 24-ft. Platform (2 used)					AH 77482
Hose 14-ft. Platform (2 used)	AH 77860	AH 77860	AH 77860		AH 77860
Hose 15-ft. Platform (2 used)	AH 77861	AH 77861	AH 77861		AH 77861
Hose 16-ft. Platform (2 used)		AH 77862	AH 77862		AH 77862
Hose 18-ft. Platform (2 used)		AH 77864	AH 77864		AH 77864
Hose 20-ft. Platform (2 used)		AH 77865	AH 77865		AH 77865
Hose 22-ft. Platform (2 used)			AH 77866		AH 77866
Hose 24-ft. Platform (2 used)					AH 77867

* * Not required if belt pickup is to be mounted on cutting platform equipped with hydrostatic drive reel.

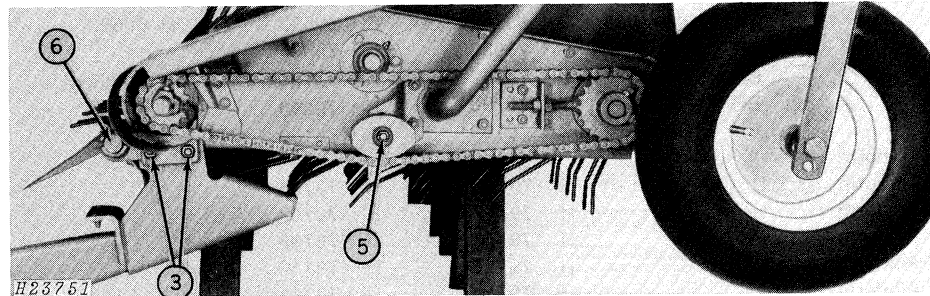
+ To be used on cutting platform with belt drive only.

† To be used on pickup platform with belt drive or hydrostatic drive and cutting platform with hydrostatic drive only.

ASSEMBLING SUPPORT ARMS, BELTS, AND HOLD-DOWN



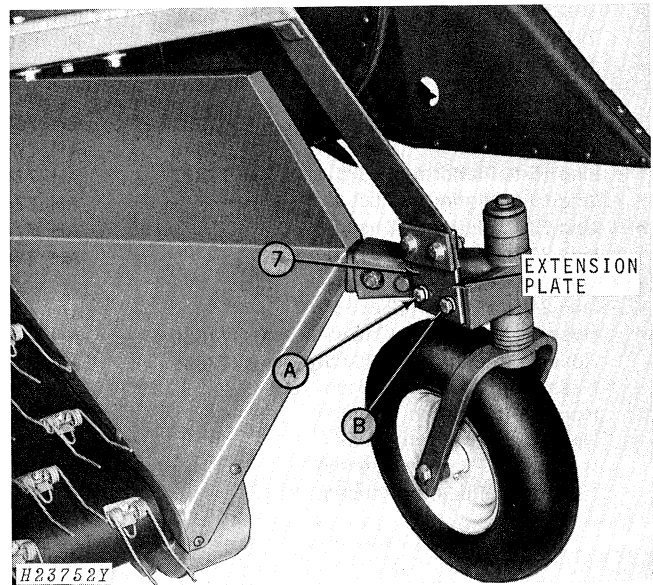
Left-Hand Side, 110-Inch Belt Pickup—Shield Removed for Illustrative Purposes



Right-Hand Side, 110-Inch Belt Pickup

1. Set the belt pickup on a sturdy support.
2. Attach left-hand support arm to bearing carrier with two 7/16 x 1-1/2-inch plow bolts and two 7/16 x 1 x .075-inch washers.
3. Attach right-hand support arm to bearing carrier with two 7/16 x 1-1/2-inch plow bolts and two 7/16 x 1 x .075-inch washers.
- (If pickup is to be installed on combine immediately, steps 4 through 7 are more easily done after pickup is attached to platform.)
4. Install pickup belts. See installation instructions on page 10.
5. Adjust drive chain to proper tension so it will operate without climbing or jumping sprockets.
6. Install stripper (page 11).
7. Install windrow hold-down by attaching extension plate to gauge wheel yoke bearing with a 1/2 x 1-1/2-inch cap screw and a 17/32 x 1-1/16 x .090-inch flat washer at "A" and a 1/2 x 1-1/2-inch cap screw at "B."

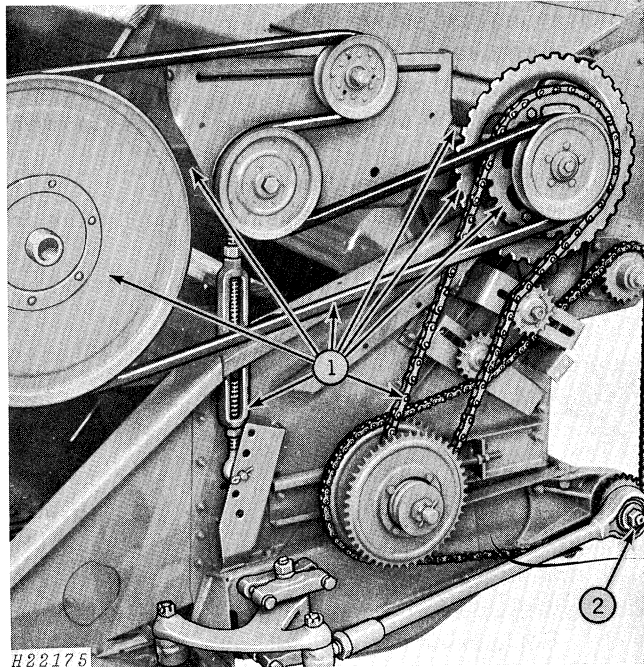
Adjust hold-down fingers to proper position as shown on page 5.



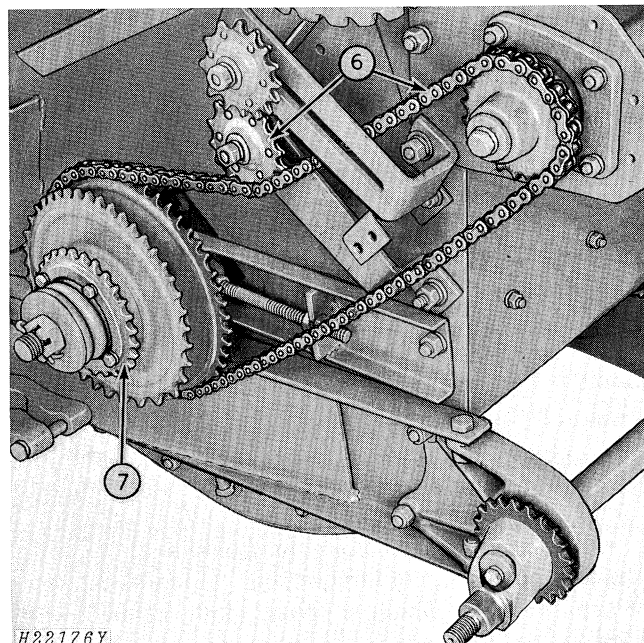
PREPARING THE CUTTING PLATFORM FOR THE BELT PICKUP

Mechanical Drive

6601 Combine



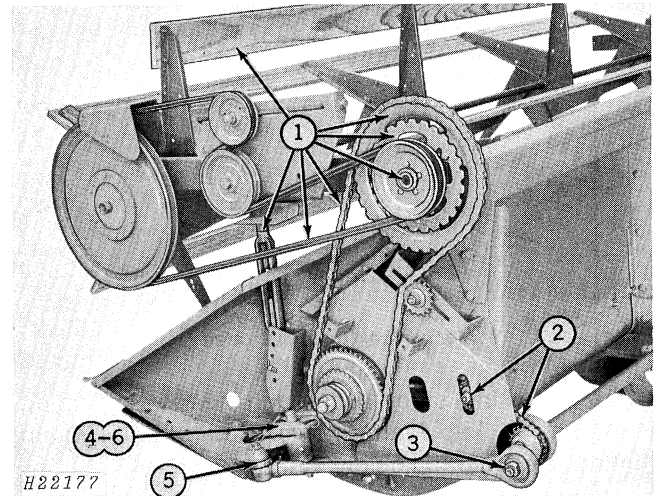
1. Remove loop dividers, shields, drive belt, drive chain, and reel.
2. Disconnect pitman from crank; replace nut on crank.
3. Remove the four clamps holding bell crank in place.
4. With the bell crank attached, pull the knife out of the cutterbar.
5. Reattach the four clamps to the platform.



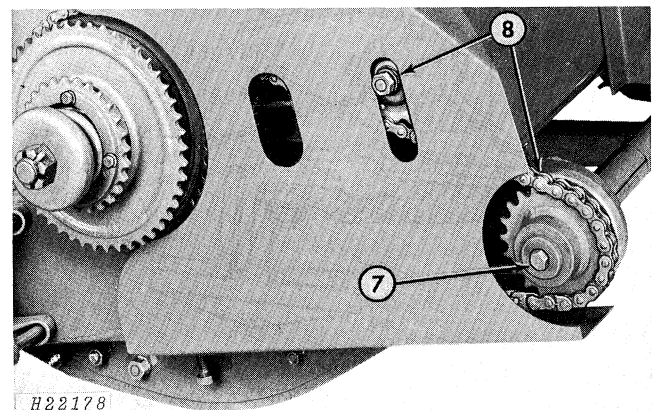
6. Remove 18 links from pitman and auger drive chain. Reinstall auger drive chain and adjust tension.

7. Remove the 27-tooth sprocket and store sprocket and hardware with cutting parts that were removed. Secure the 47-tooth sprocket, using three 5/16 x 2-inch cap screws.

3300, 4400, 6600, and 7700 Combines



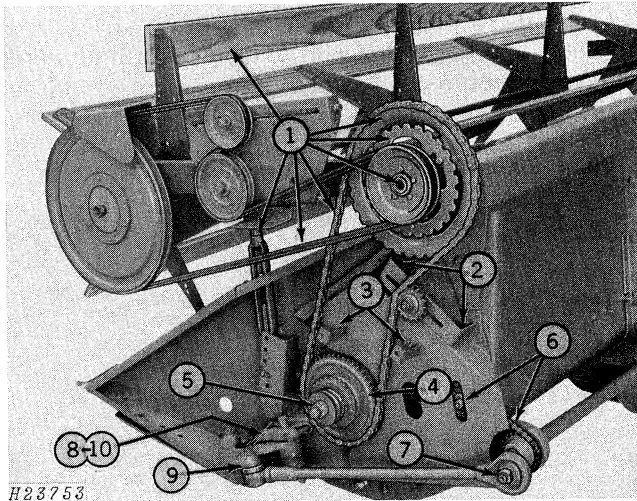
1. Remove loop dividers, shields, drive belt, drive chain and reel.
2. Loosen and disconnect auger and knife drive chain.
3. Disconnect pitman from crank.
4. Remove the four clamps holding bell crank in place.
5. With the bell crank attached, pull the knife out of the cutterbar.
6. Reattach the four clamps to the platform.



7. Replace drive sprocket with new one furnished.
8. Reinstall auger drive chain and adjust tension.

Belt Pickup Hydrostatic Drive— Cutting Platform or Pickup Platform

3300, 4400, 6600, and 7700 Combines



Mechanical Drive Illustrated

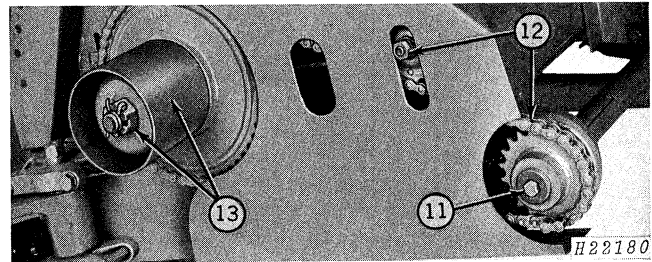
The following steps 1 through 13 cover Cutting Platforms, Pickup Platforms, or Cutting and Pickup Platforms as marked below:

- * *Cutting Platform only.*
- ** *Pickup Platform only.*
- *** *Cutting and Pickup Platforms*

*1. Remove loop dividers, shields, drive belt, drive chain and reel.

* (Remove hydrostatic reel drive motor and lines or hydraulic reel lift cylinders and lines if platform is so equipped.)

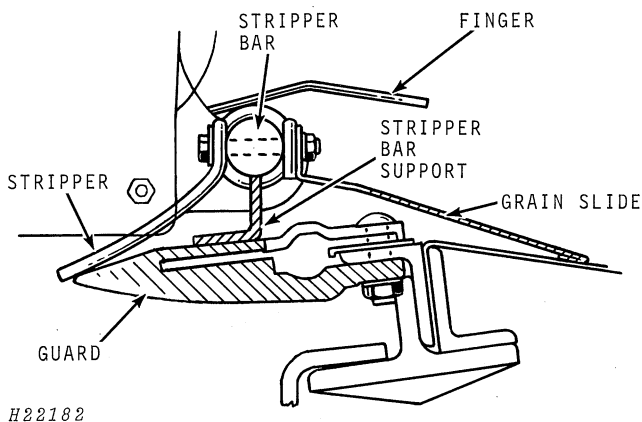
- **2. Remove tightener bracket.
- **3. Remove shield support brackets.
- **4. Remove cotter pin, nut, cup washer, slip clutch spring, and sleeve. Install 50-tooth sprocket.
- *5. Remove cotter pin, nut, cup washer, slip clutch spring, and sleeve.
- *6. Loosen and disconnect auger and knife drive chain.
- *7. Disconnect pitman from crank.
- *8. Remove the four clamps holding bell crank in place.
- *9. With the bell crank attached, pull the knife out of the cutter bar.
- *10. Reattach the four clamps to the platform.



- *11. Replace drive sprocket with new sprocket furnished.
- ***12. Reinstall auger drive chain and adjust tension.
- ***13. Position slip clutch shield against auger sprocket and install spring, cup washer, nut, and cotter pin. Tighten nut so clutch will operate under normal conditions without slipping.

BELT PICKUP

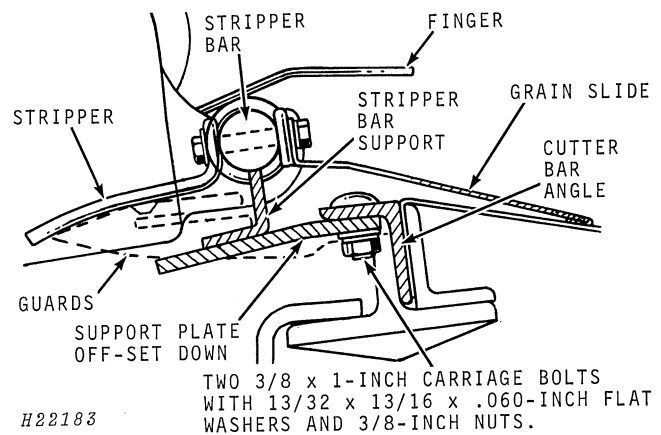
Raised Mounting Position (Regular Feed)



Mechanical Drive for Cutting Platforms only—
3300, 4400, 6600, and 7700 Combines

In this position, the stripper bar support rests on the lip of the guard.

Lowered Mounting Position (Low Feed)

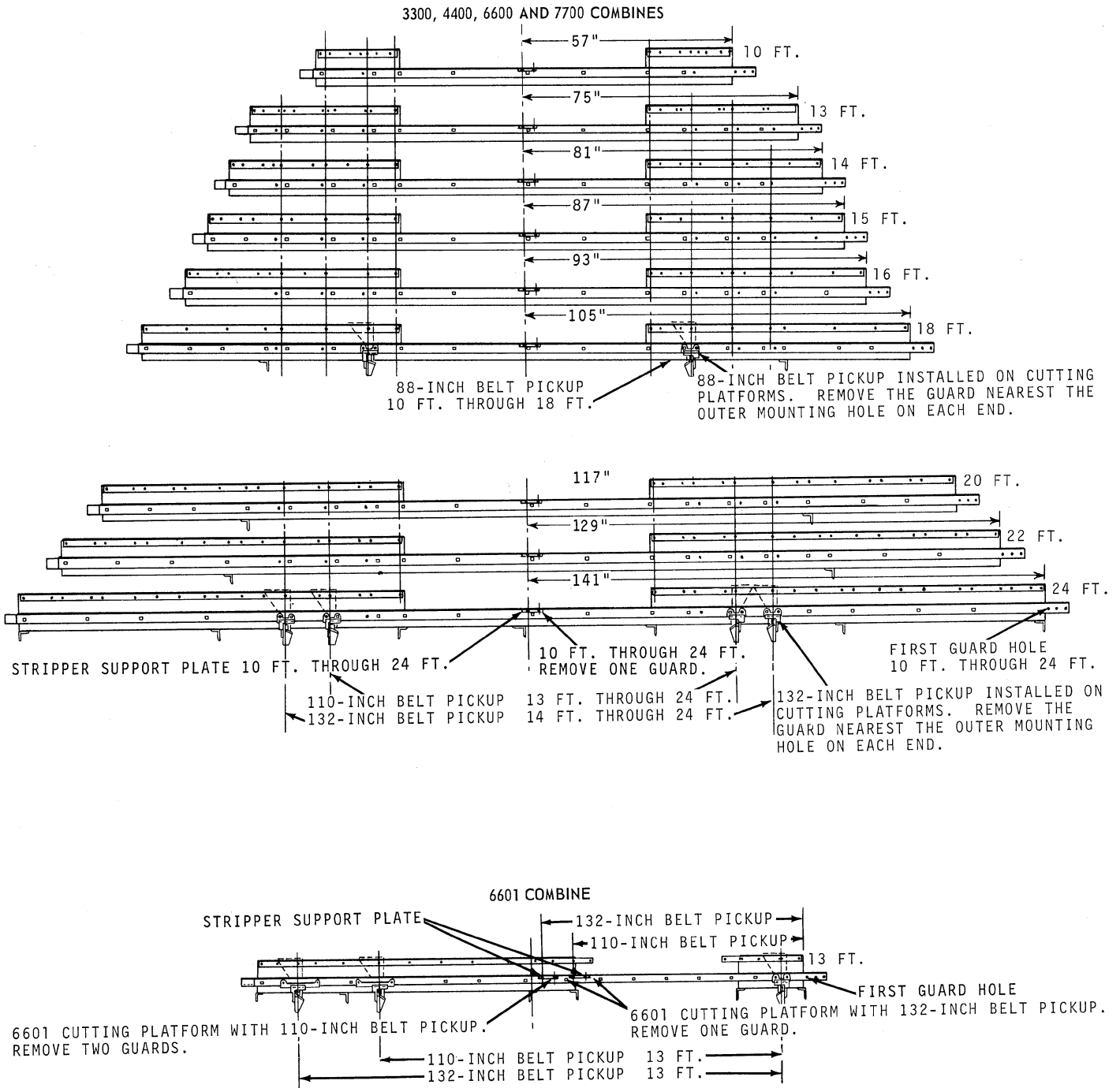


Mechanical Drive for Pickup Platforms—3300, 4400,
6600, 6601, and 7700 Combines

Hydrostatic Drive for Cutting and Pickup Platforms—
3300, 4400, 6600, and 7700 Combines

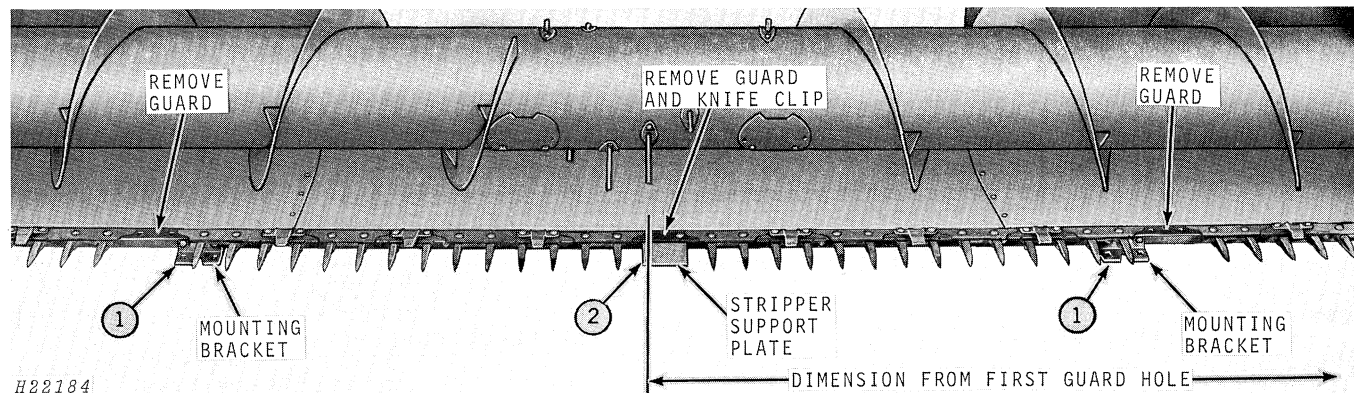
In this position, the stripper bar support rests on the support plate, which is bolted (with offset down) to the underside of the cutter bar angle.

Installing Belt Pickup



H23754

Installing Belt Pickup—Continued



1. Attach the left-hand and right-hand mounting brackets to platform with $3/8 \times 1\text{-}1/2$ -inch cap screws. Refer to the chart on the page 19 for correct location.

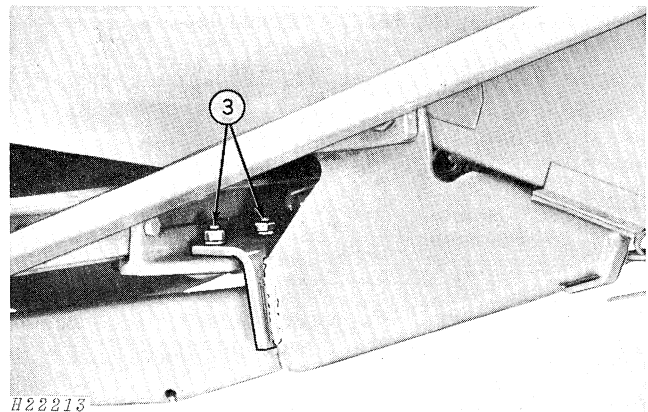
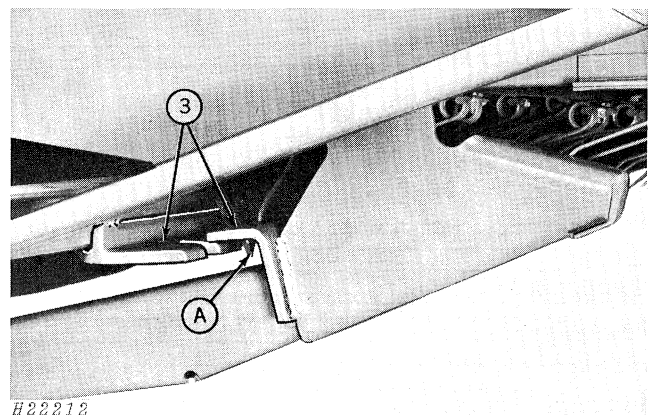
NOTE: Check bracket and make certain that the "88-, 110-, or 132-inch" side is to the front.

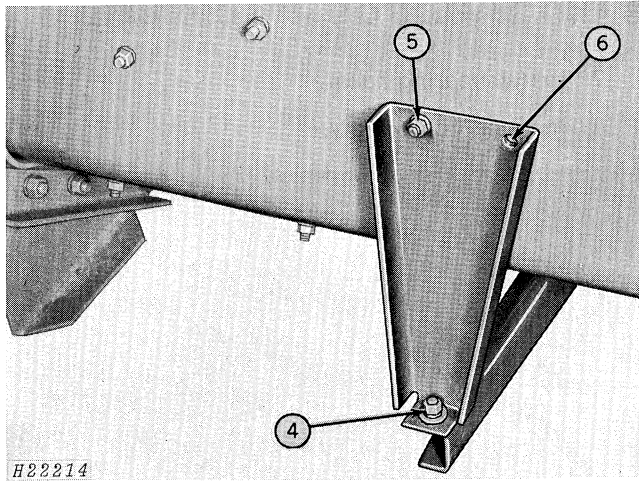
2. For mechanical drive for pickup platforms 3300, 4400, 6600, 6601, and 7700 Combines and hydrostatic drive for cutting and pickup platforms 3300, 4400, 6600, and 7700 Combines:

Attach the stripper support plate (with offset down) to the underside of cutterbar angle with two $3/8 \times 1$ -inch carriage bolts.

3. Move the combine forward until mounting brackets are a few inches from the brackets on the support arms.

Using aligning pins "A" as a guide in the slot of mounting bracket, slide pickup into position and attach support arms to mounting brackets with four $3/8 \times 1\text{-}1/4$ -inch carriage bolts. Be certain carriage bolts are inserted from underside of mounting brackets.

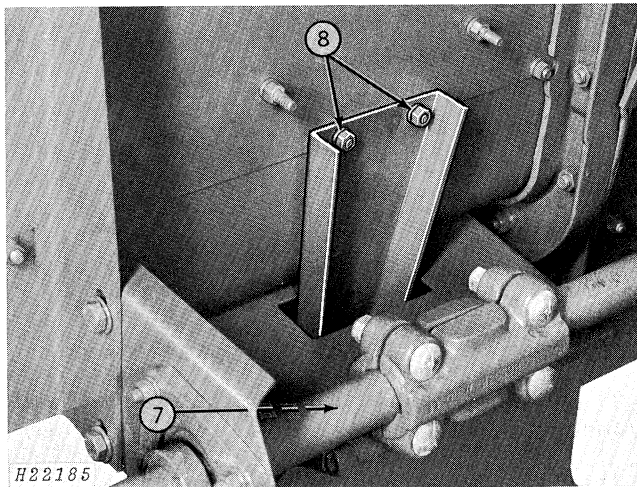




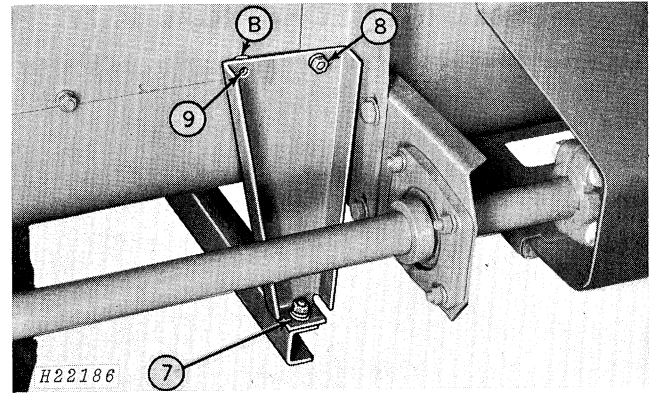
4. Attach right-hand support bracket to support arm, using 3/8 x 1-inch cap screw.

5. Bolt bracket to platform, using one 3/8 x 1-inch cap screw.

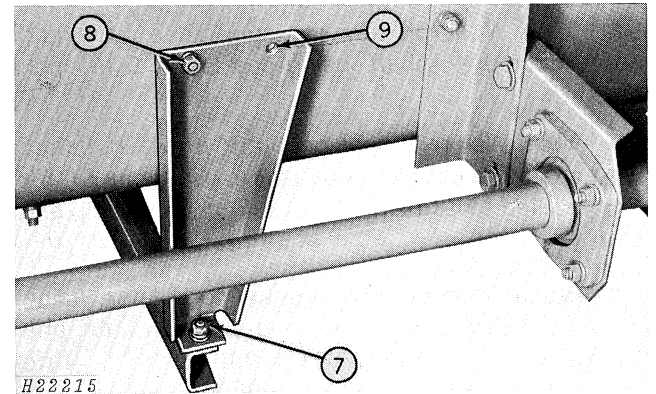
6. Using support bracket as a template, drill a 13/32-inch hole, and bolt bracket to platform, using a 3/8 x 1-inch cap screw.



88-Inch Belt Pickup



110-Inch Belt Pickup for Detachable Platforms



110-Inch Belt Pickup on 6601 Combine
132-Inch Belt Pickup

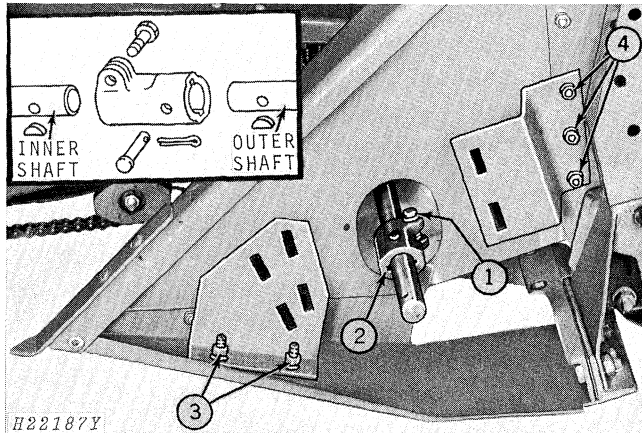
7. Attach left-hand support bracket to support arm, using one 3/8 x 1-inch cap screw.

8. Bolt bracket to platform, using one 3/8 x 1-inch cap screw (110- and 132-inch belt pickups) and two 3/8 x 1-inch cap screws (88-inch belt pickup).

9. (110- and 132-Inch Belt Pickups Only) Using support bracket as a template, drill a 13/32-inch hole, and bolt bracket to platform, using one 3/8 x 1-inch cap screw.

NOTE: (110-Inch Belt Pickup on Detachable Platforms Only) On 13-, 14-, 15-, and 16-foot platforms, a 13/32 x 1-1/4 x .194-inch flat washer "B" must be used between bracket and platform.

INSTALLING MECHANICAL DRIVE PARTS AND SHIELDS ON 6601 COMBINE

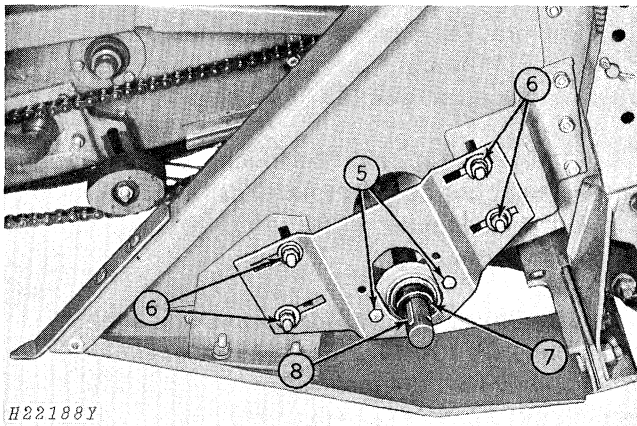


1. Place Woodruff key on inner drive shaft and secure coupler to shaft, using one 3/8 x 1-3/4-inch cap screw.

2. Place Woodruff key on outer drive shaft and insert shaft into coupler and secure, using one 5/16 x 2-inch drilled pin. Insert 1/8 x 1/2-inch cotter pin and bend.

3. Attach front support bracket to divider, using two 3/8 x 1-inch cap screws and 3/8-inch nuts, and four 13/32 x 13/16 x .060-inch flat washers—one each next to slotted holes in support bracket and divider.

4. Attach rear support bracket to end sheet, using existing hardware. (5/16 x 3/4-inch truss head machine screws, lock washers, and nuts.)

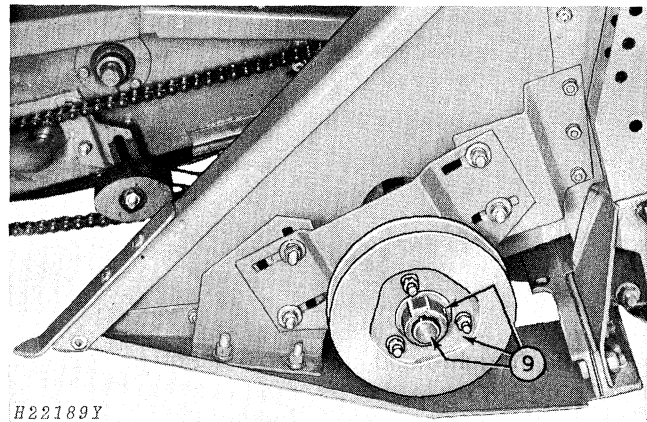


5. Attach bearing and retainers to support plate at the lower set of holes in plate with two 5/16 x 3/4-inch cap screws.

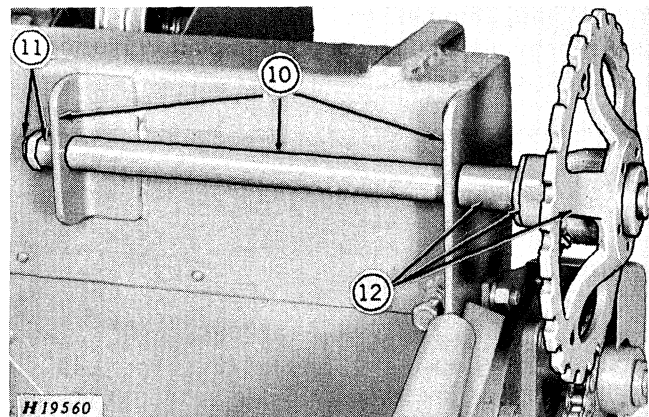
6. Install support plate with four 3/8 x 1-1/4-inch carriage bolts, 13/32 x 1 x .105-inch flat washers, and 3/8-inch nuts. *NOTE: Raise pickup off of ground; relieve all binding between coupler sleeve and outer drive shaft and tighten hardware.*

7. Install bearing collar.

8. Install Woodruff key.



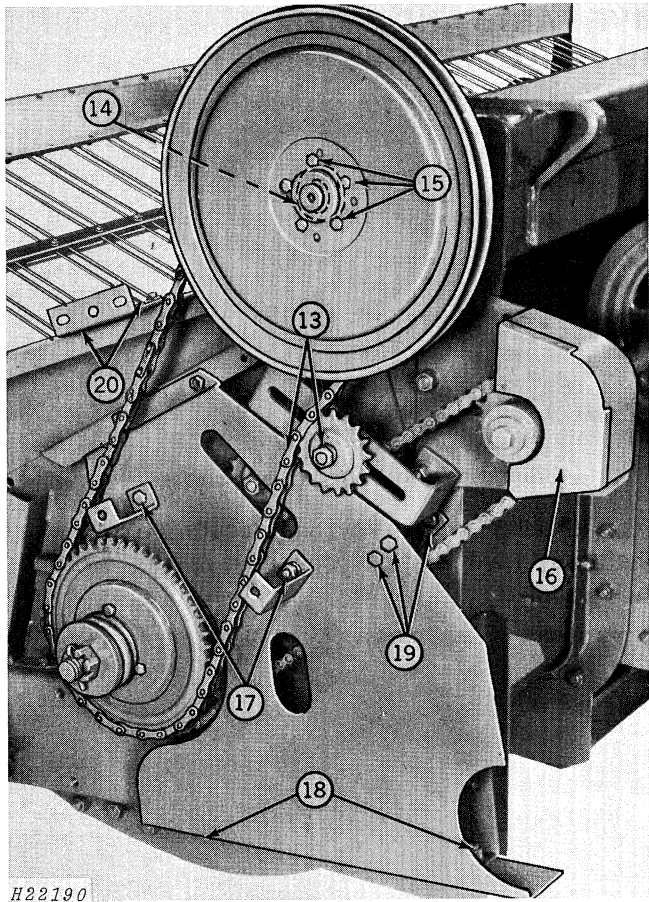
9. Slide sheave on shaft and insert spring pin.



10. Insert pivot shaft through support brackets.

11. Install flat washer, spacer, flat washer, and 3/4-inch lock nut on pivot shaft.

12. Install spacer, washer, and sprocket.



13. Install drive chain and adjust tension so it will operate without climbing or jumping sprockets.

14. Slip 3-1/2-inch washer onto shaft.

15. Secure drive sheave to sprocket using five 1/4 x 1-1/4-inch cap screws. Be sure washer is between sheave and sprocket.

16. Install shield, using four 5/16 x 1/2-inch self-tapping screws.

17. Attach brackets to shield, using two 3/8 x 3/4-inch cap screws.

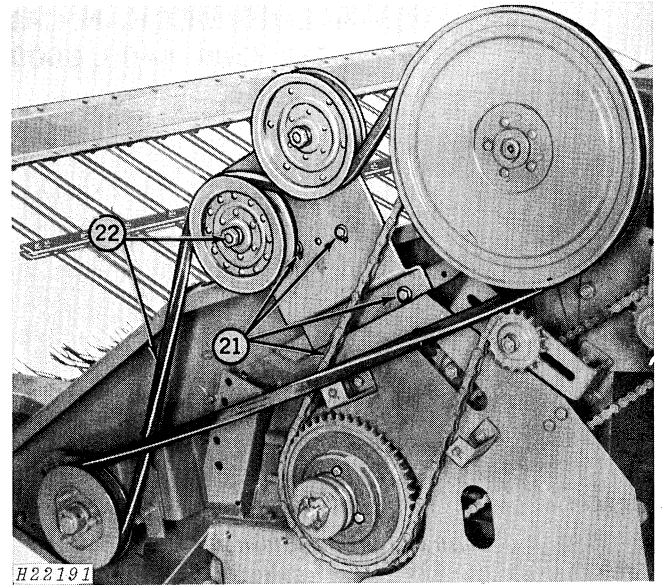
18. Install drive shield. Install hardware in bottom holes at this time. Use existing hardware in front hole and one 1/2 x 1-1/4-inch cap screw in rear hole.

19. Install support bracket, using one 3/8 x 1-inch cap screw in J-angle and two 3/8 x 3/4-inch cap screws in shield.

20. Install shield bracket, using two 5/16 x 3/4-inch cap screws.

21. Install tightener assembly, using two 3/8 x 1-inch cap screws in bottom holes and two 5/16 x 1-inch carriage bolts in top holes.

22. Install drive belt and adjust tension so belt will operate without slipping.

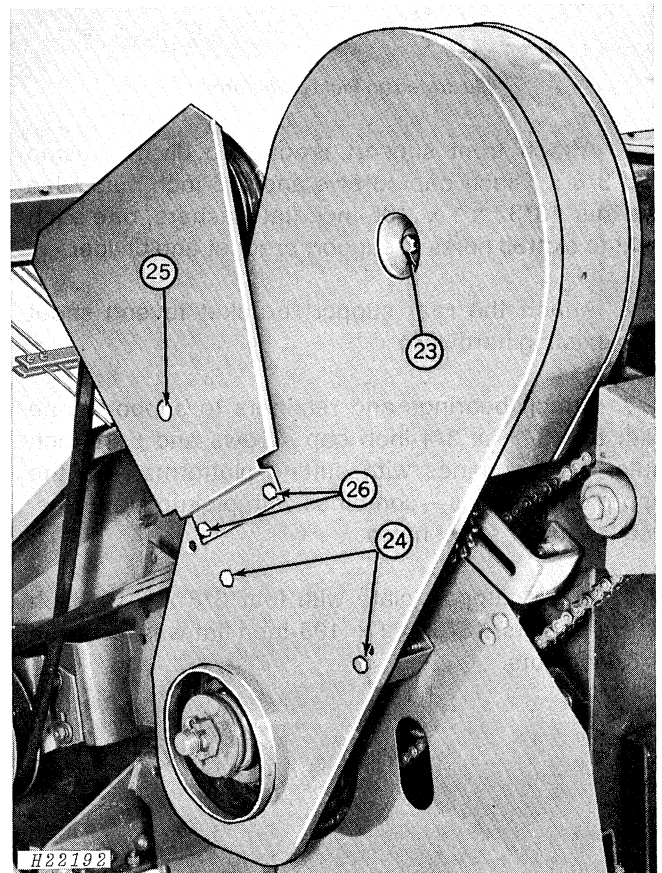


23. Attach drive shield to pivot shaft, using a flat washer and a 3/8 x 3/4-inch cap screw.

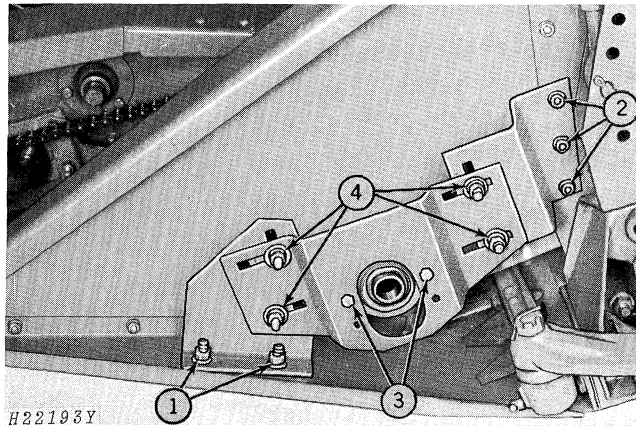
24. Attach drive shield to brackets, using two 3/8 x 3/4-inch cap screws.

25. Attach shield, using a 1/2 x 3-3/4-inch spacer and a 3/8 x 4-3/4-inch carriage bolt.

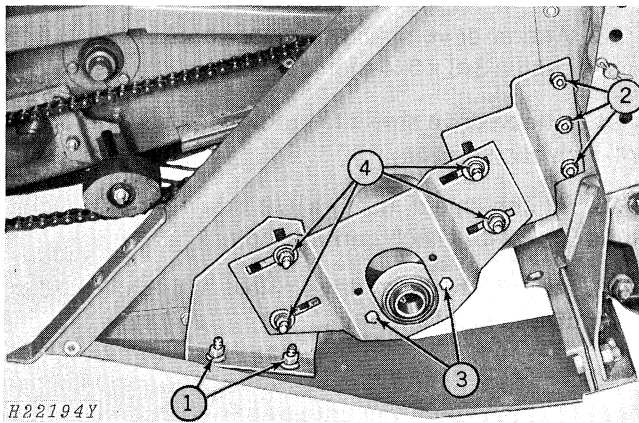
26. Attach shield to drive shield, using two 3/8 x 5/8-inch cap screws.



INSTALLING MECHANICAL DRIVE PARTS AND SHIELDS ON 3300, 4400, 6600, AND 7700 COMBINES



Illustrated on Cutting Platform



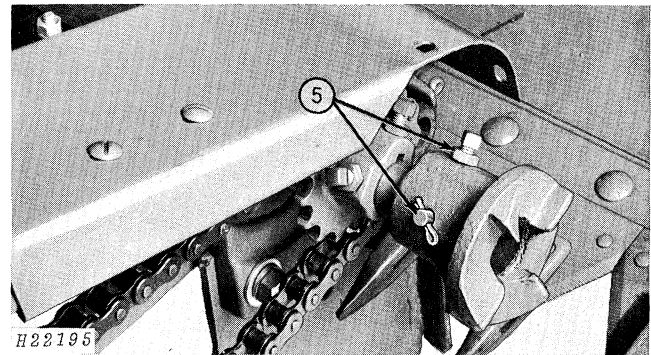
Illustrated on Pickup Platform

1. Attach front support bracket to divider, using two 3/8 x 1-inch cap screws and 3/8-inch nuts. Use the four 13/32 x 1 x .105-inch flat washers, one each next to slotted holes in support bracket and divider.

2. Attach the rear support bracket to end sheet with existing hardware.

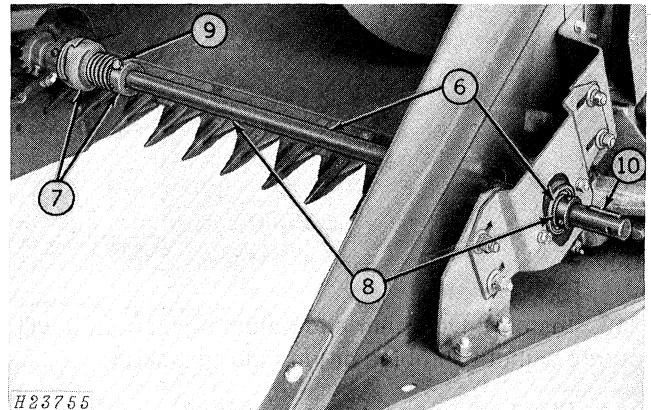
3. Attach bearings and retainers to support plate with two 5/16 x 3/4-inch cap screws and 5/16-inch nuts. For combines with cutting platforms, use the upper set of holes—combines with pickup platforms, use the lower set of holes.

4. Install support plate with four 3/8 x 1-1/4-inch carriage bolts, 13/32 x 1 x .105-inch flat washers, and 3/8-inch nuts.



Shield Removed for Illustrative Purposes

5. Install Woodruff key and secure inner jaw to shaft, using a drilled pin, cotter pin, set screw, and locking nut.



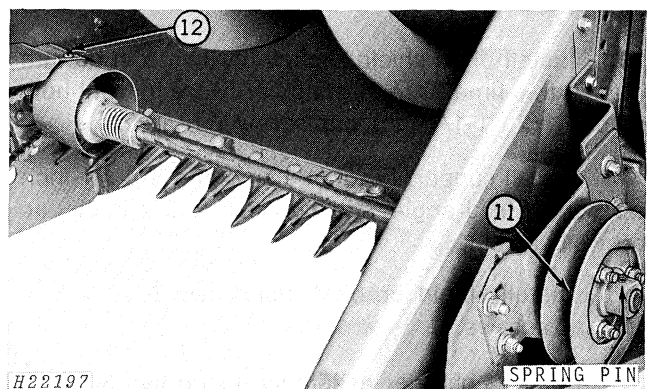
6. Slide drive shaft through bearing.

7. Slide locking collar, spring, and outer jaw on shaft.

8. Position drive shaft against end of inner shaft and secure locking collar.

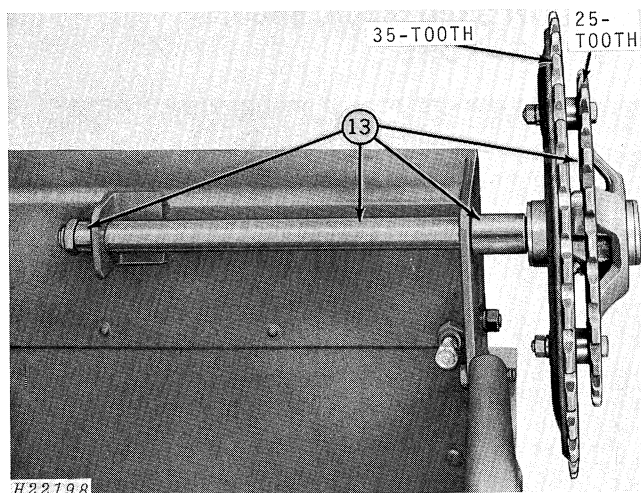
9. Adjust backup clutch (page 9).

10. Install Woodruff key on drive shaft.



11. Slide sheave on shaft and insert spring pin.

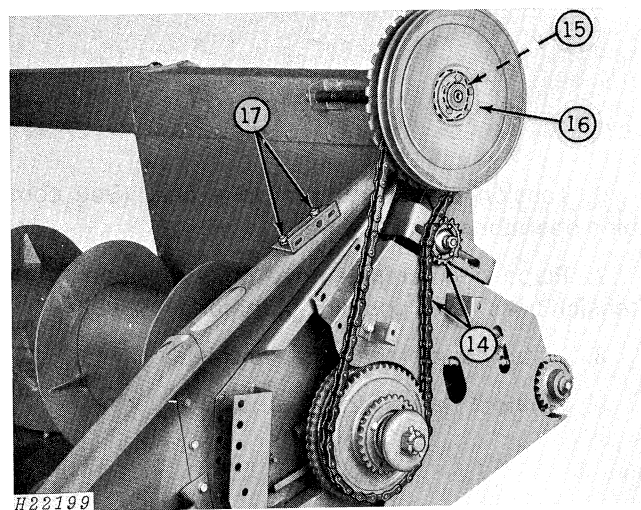
12. Install drive shield, using two 1/4 x 5/8-inch truss head machine screws.



13. Insert pivot through support brackets. Install flat washer, spacer, and 3/4-inch lock nut on inner end.

Install spacer, washer, sprockets, and washer on outer end.

NOTE: Be certain that the spacers are between the 25-tooth and 35-tooth sprockets.



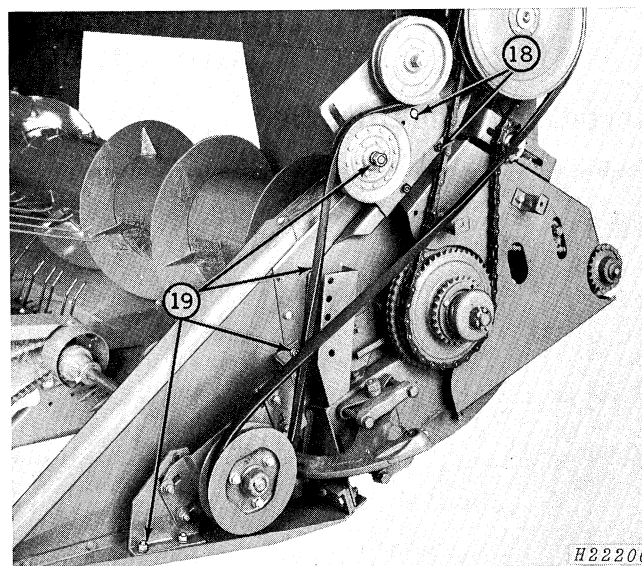
14. Install drive chain around 25-tooth sprocket at the top and around the 47-tooth sprocket at the bottom. Adjust tension so it will operate without climbing or jumping sprockets.

IMPORTANT: Always operate the chain over the 25-tooth and 47-tooth sprockets. To vary speed, add or remove washers between the adjustable driven sheave (page 2).

15. Slip 3-1/2-inch washer onto shaft.

16. Secure drive sheave to sprocket, using five 1/4 x 1-1/4-inch cap screws. Be sure washer is between sheave and sprocket.

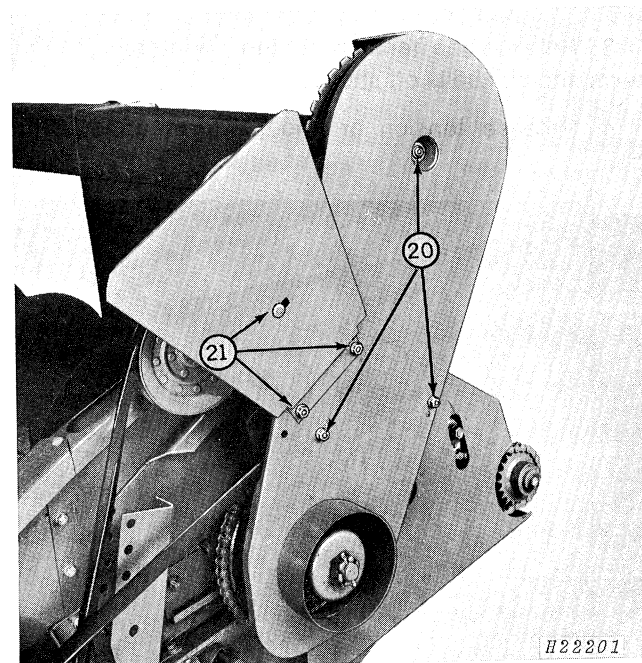
17. Secure clip to platform, using two 5/16 x 3/4-inch cap screws.



18. Secure tightener assembly to platform, using two 3/8 x 1-inch cap screws and two 5/16 x 1-inch carriage bolts.

19. Install drive belt. Align drive shaft to provide a full mesh between clutch jaws and tighten screws installed in Step 2.

Tension drive belt (page 8).

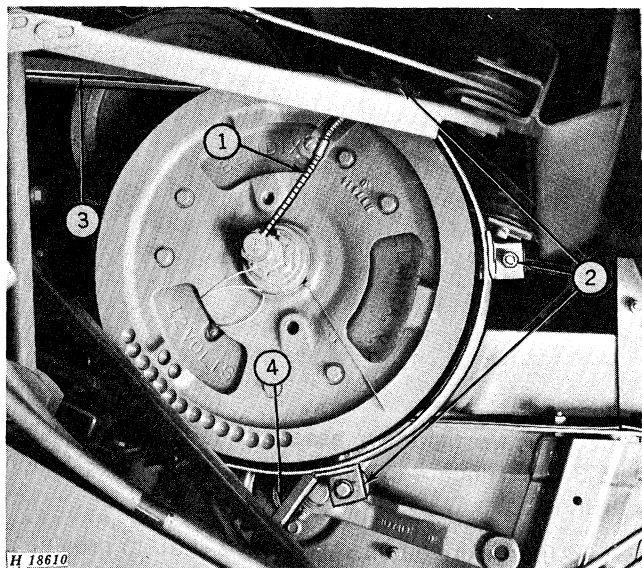


20. Install drive chain shield, using a flat washer and a 3/8 x 1-inch cap screw in top hole and two 3/8 x 3/4-inch cap screws in bottom holes.

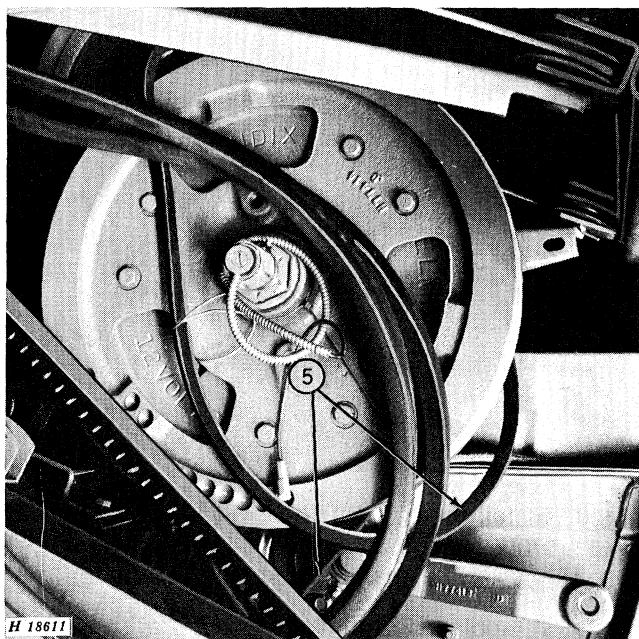
21. Attach shield, using a 1/2 x 3-3/4-inch spacer and a 3/8 x 4-3/4-inch carriage bolt in top hole and two 3/8 x 5/8-inch cap screws in bottom holes.

INSTALLING HYDROSTATIC DRIVE ON 3300, 4400, 6600, AND 7700 COMBINE SEPARATORS

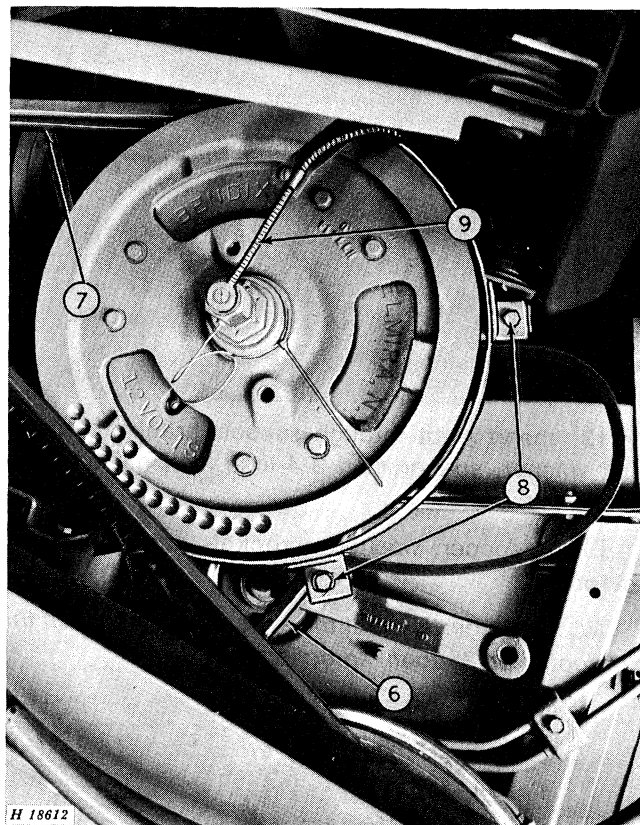
Installing Pump Drive Belt



1. Disconnect electric clutch wiring harness at terminal behind the clutch.
2. Remove the countershaft sheave shield.
3. Release the tension on the countershaft drive belts and pull belts off sheave.
4. Release tension on the platform upper drive belt.



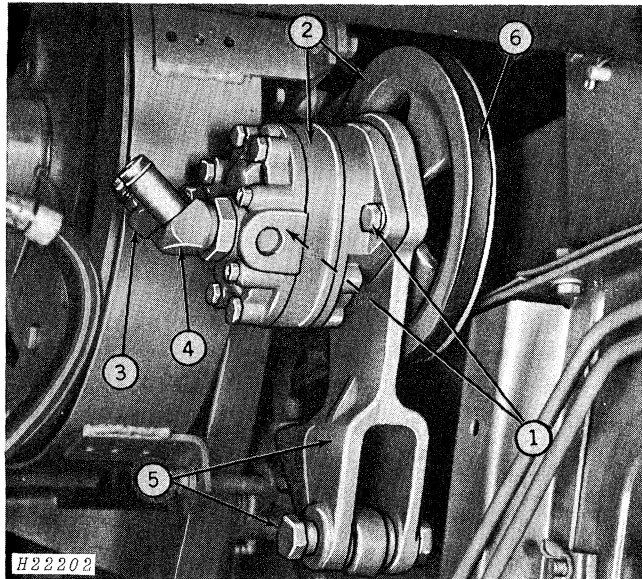
5. Install drive belt over countershaft sheave and thread belt under platform upper drive belt and position on drive sheave.



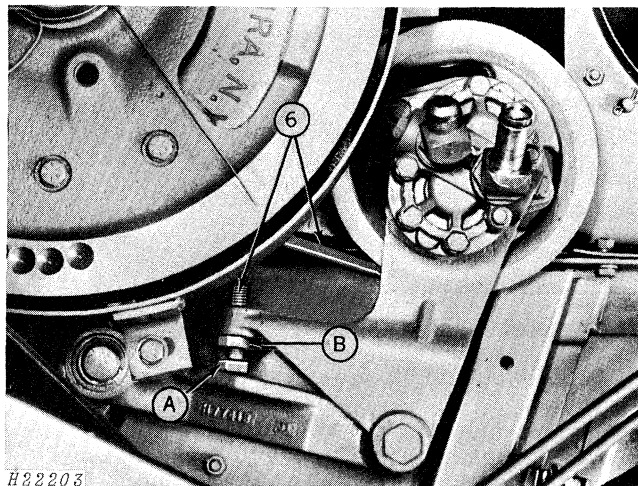
6. Tension platform upper drive belt. (See combine operator's manual.)
7. Place countershaft drive belts on sheave and tension belts. (See combine operator's manual.)
8. Install countershaft sheave shield.
9. Connect clutch wiring harness.

Installing Pump

3300 and 4400 Combines



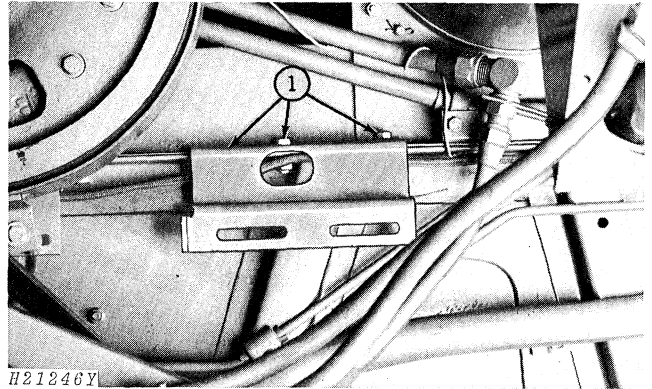
1. Attach pump to support arm, using two 3/8 x 1-1/4-inch cap screws.
2. Install sheave on pump, using a 5/32 x 5/32 x 5/8-inch key, a 25/64 x 7/8 x .060-inch washer, and a 3/8-inch nut.
3. Install O-ring on 45-degree elbow and thread elbow into pump.
4. Install O-ring on 45-degree stem and thread stem into pump.
5. Attach support arm to support, using a 5/8 x 3-1/4-inch shoulder bolt.



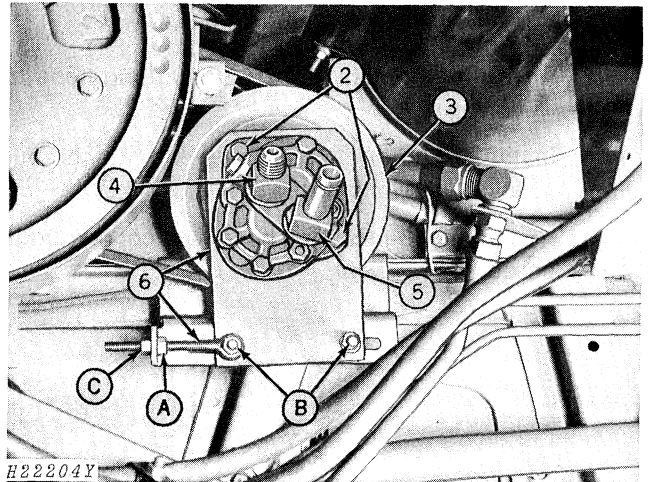
6. Install drive belt around sheave and turn cap screw "A" out against support casting, forcing pump sheave against belt until belt will operate without slipping.

Tighten lock nut "B."

6600 and 7700 Combines



1. Install support bracket using two 3/8 x 1-1/4-inch cap screws, two 13/32 x 13/16 x .060-inch washers, and 3/8-inch nuts.



2. Attach pump to bracket using two 3/8 x 1-1/4-inch cap screws and 3/8-inch nuts.

3. Install sheave on pump, using a 5/32 x 5/32 x 5/8-inch key, a 25/64 x 7/8 x .060-inch washer, and 3/8-inch nut.

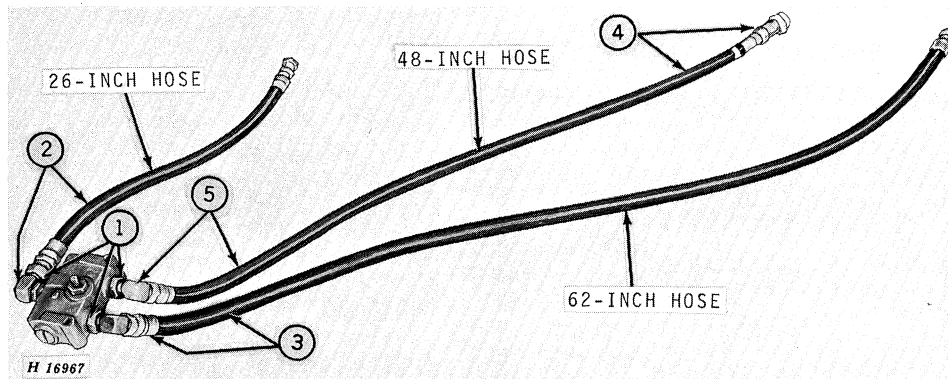
4. Install O-ring on 45-degree elbow and thread elbow into pump.

5. Install O-ring on 45-degree stem and thread stem into pump.

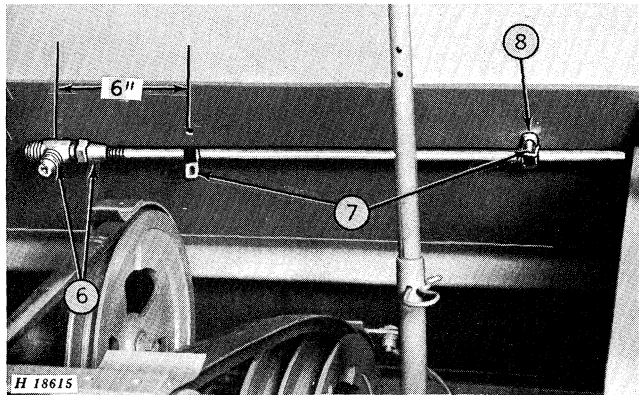
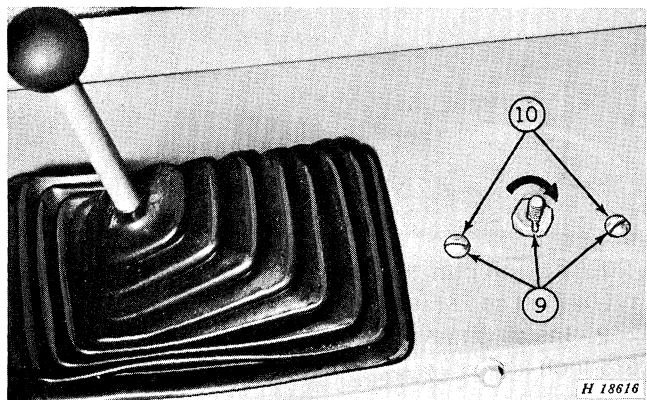
6. Thread nut "A" on eyebolt and attach pump bracket and eyebolt to support bracket. Use a 3/8 x 1-1/2-inch cap screw, two 13/32 x 13/16 x .060-inch washers (one between eyebolt and pump bracket), and 3/8-inch nut to attach brackets and eyebolt. Use a 3/8 x 1-1/4-inch cap screw, 13/32 x 13/16 x .060-inch washer and 3/8-inch nut to attach brackets. Do not tighten nuts "B."

7. Install belt on sheave and tighten nut "A" until belt will operate without slipping. Tighten nuts "B" and install and tighten nut "C."

Installing Valve and Hoses



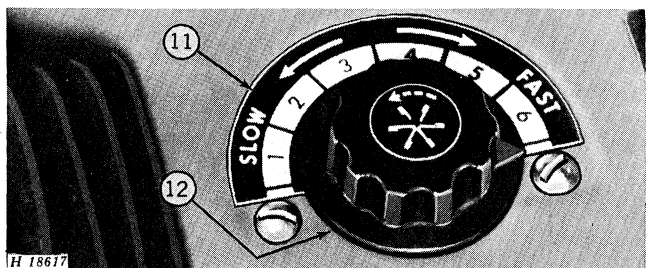
1. Install O-rings over three 90-degree elbows and thread them into the valve. Position as shown.
2. Attach a 1/2-inch I.D. x 26-inch long hose to 90-degree elbow.
3. Attach a 1/2-inch I.D. x 62-inch long hose to 90-degree elbow.
4. Install O-ring in coupler body and attach coupler body to 48-inch long hose.
5. Attach the 48-inch long hose with coupler body to 90-degree elbow.



6. Assemble tee to tube.
7. Slide clips over tube.
8. Attach left-hand clip to combine, using a 1/4 x 1-inch pan head machine screw.

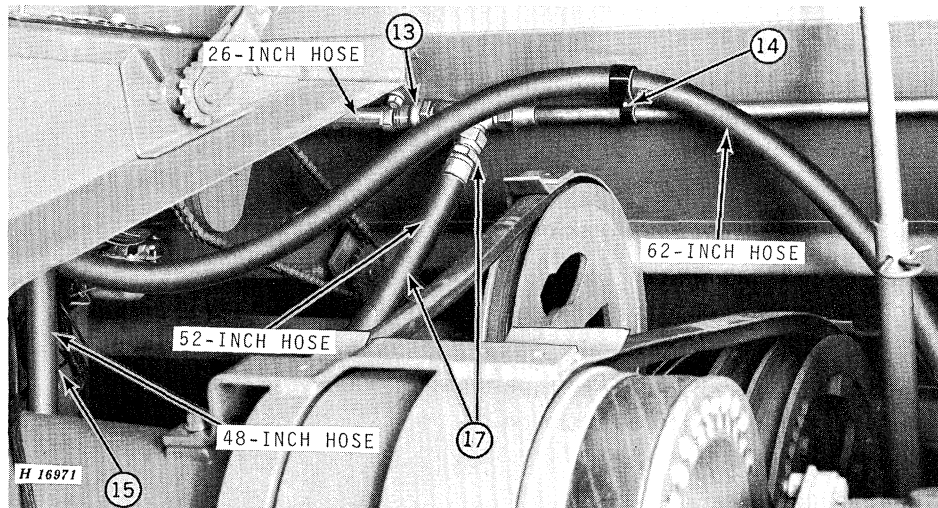
9. Remove three knock-out plugs in console.

10. Insert valve with hoses under console and attach valve to console, using two 5/16 x 2-1/4-inch truss head machine screws. Turn valve stem clockwise as far as possible.



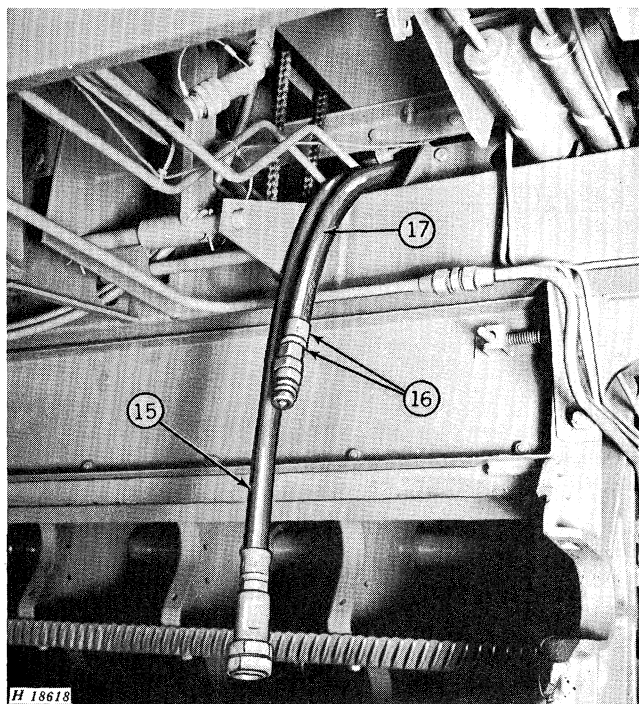
11. Seal decal to console.
12. Attach knob to valve with pointer on Number 6 as shown.

NOTE: Before installing knob, make certain that stem is turned clockwise as far as possible.



13. Attach 26-inch long hose to tee.

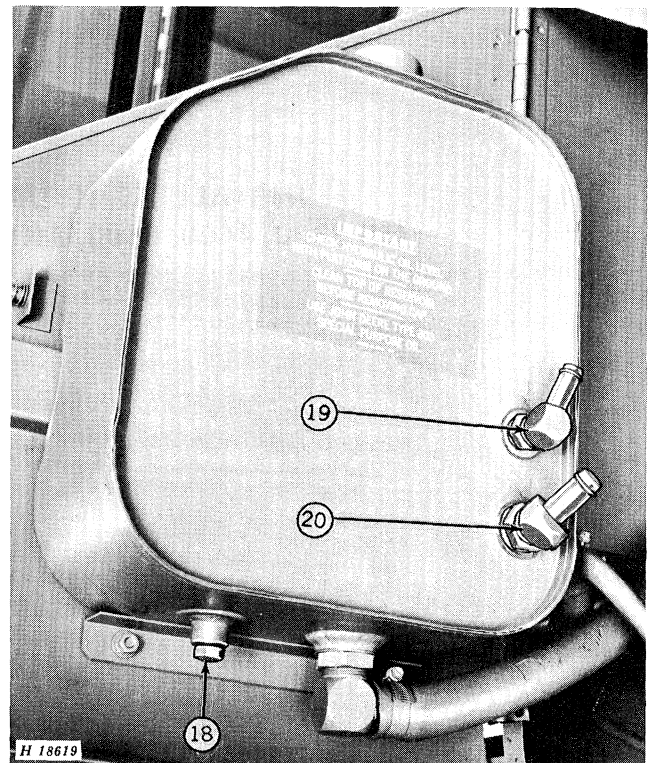
14. Attach 62-inch long hose and tube to combine, using two clips and a 1/4 x 1-inch pan head machine screw.



15. Run the 48-inch hose with coupler body under the engine bell housing and operator's platform.

16. Install O-ring in coupler nose and attach coupler nose to the 52-inch long hose.

17. Run the 52-inch hose with coupler nose under operator's platform and bell housing and attach it to the tee.



18. Drain oil from hydraulic reservoir into a clean container. Do not contaminate the oil.

19. Remove plug and install O-ring on 90-degree stem and thread stem into reservoir. Position stem as shown.

20. Remove plug and install O-ring on 45-degree stem and thread stem into reservoir. Position stem as shown.

Installing Valve and Hoses—Continued

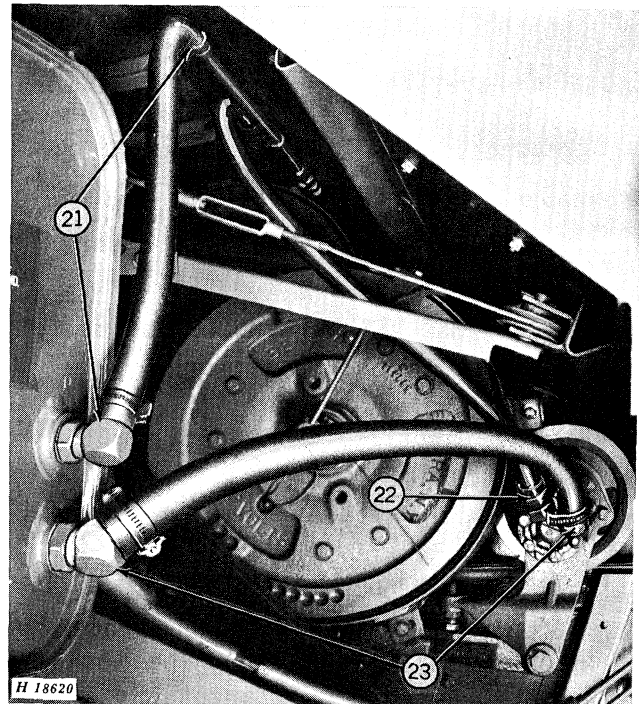
21. Attach hose (23 inches long on 3300 and 4400 Combines and 25 inches long on 6600 and 7700 Combines) from 90-degree stem on reservoir to tube, using two clamps.

NOTE: Position hose so it does not bind when door is closed.

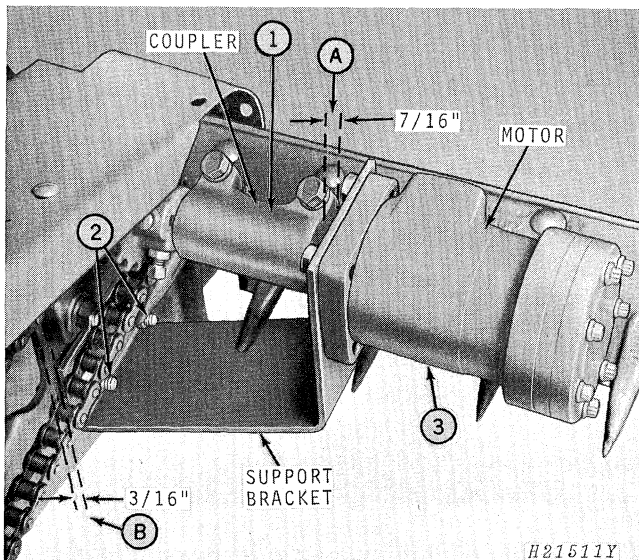
22. Attach 62-inch hose from valve to 45-degree elbow on pump.

23. Attach 3/4-inch I.D. x 31-inch long hose from 45-degree stem on reservoir to 45-degree stem on pump, using two clamps.

24. (Not illustrated) Refill reservoir to proper level. See combine operator's manual for correct oil.



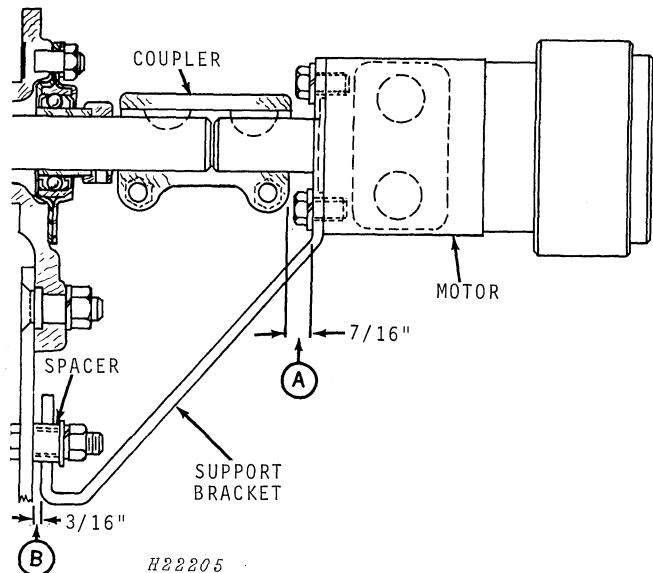
INSTALLING HYDROSTATIC DRIVE PARTS ON 3300, 4400, 6600, AND 7700 COMBINE PLATFORMS



1. Place 1/4 x 7/8-inch Woodruff key on shaft and slide coupler onto shaft.

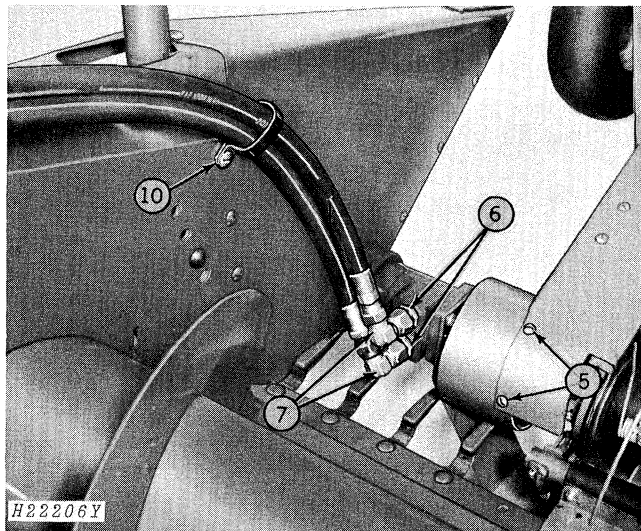
2. Attach support bracket to belt pickup, using two 3/8 x 1-1/2-inch cap screws, two 3/8 x 1/2-inch pipe spacers, two 13/32 x 13/16-inch flat washers, and two 3/8-inch nuts.

3. Place 1/4 x 1-inch Woodruff key on motor shaft and attach motor to bracket, using four 3/8 x 3/4-inch cap screws.



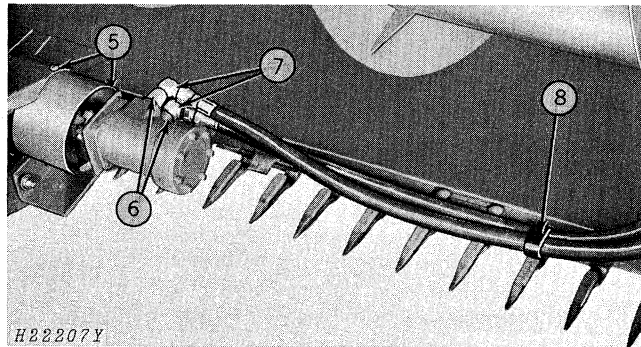
4. Hold motor level so output shaft does not bind in coupler. Make certain there is a minimum of 7/16-inch clearance between support bracket and coupler as shown at "A" and a 3/16-inch clearance between support bracket and pickup support arm as shown at "B," then tighten the two 3/8 x 1-3/4-inch cap screws in coupler.

IMPORTANT: It is important that support bracket is free to float on the spacers.



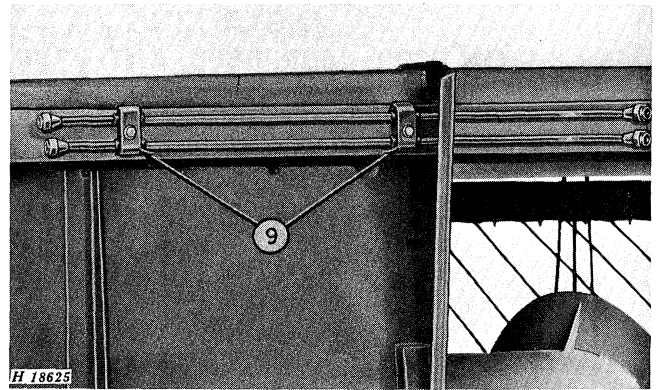
*Illustrated on 14 Ft. Cutting Platform—
Shield Removed for Illustrative Purposes*

5. Install drive shield, using two 1/4 x 5/8-inch truss head machine screws.
6. Install two connectors with O-rings into motor.
7. Attach 90-degree elbows to hoses and attach hoses to connectors.

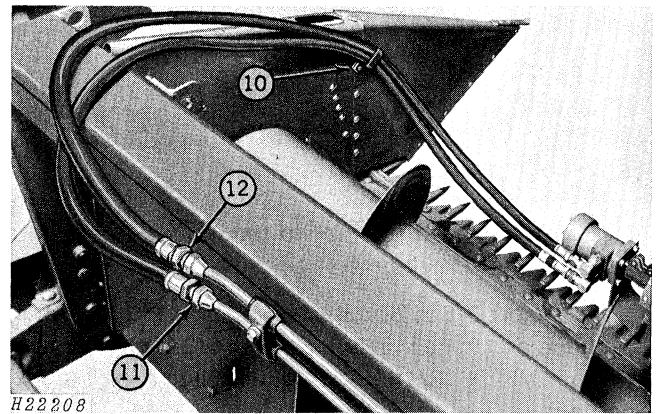


Illustrated on 15 Ft. Cutting Platform

8. On 16-ft. and larger platforms for 88-inch belt pickups, 18-ft. and larger platforms for 110-inch belt pickups, or 20-ft. and larger platforms for 132-inch belt pickups, attach clip around hoses. Secure clip with 3/8 x 1-1/4-inch cap screw to existing guard, using mounting hole midway between hydraulic motor and platform end sheet.

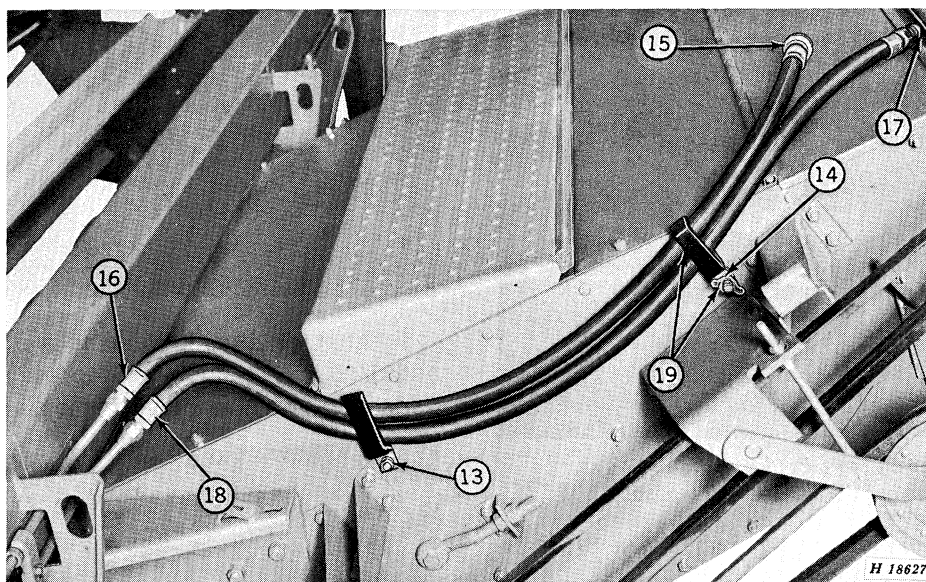


9. Attach hydraulic tubes to platform with clamps and 5/16 x 1-1/2-inch self-tapping screws. Use rubber sleeves on tube under clamps.



10. Attach clip around hoses and secure to platform, using existing hardware.
11. Attach hose in bottom hole in motor to bottom tube on platform.
12. Attach hose in top hole in motor to top tube on platform.

INSTALLING HYDROSTATIC DRIVE PARTS ON 3300, 4400, 6600, AND 7700 COMBINE PLATFORMS—Continued



13. Attach hose retainer to feeder house, using a 3/8 x 3/4-inch carriage bolt.

14. Insert 3/8 x 2-inch carriage bolt through feeder house and install on bolt a 3/8 x 5/8-inch pipe spacer, a 13/32 x 13/16 x .060-inch washer, and a 3/8-inch nut.

15. Install O-ring in coupler body and install coupler body to a 1/2-inch I.D. x 45-inch long hose.

16. Attach hose to upper tube.

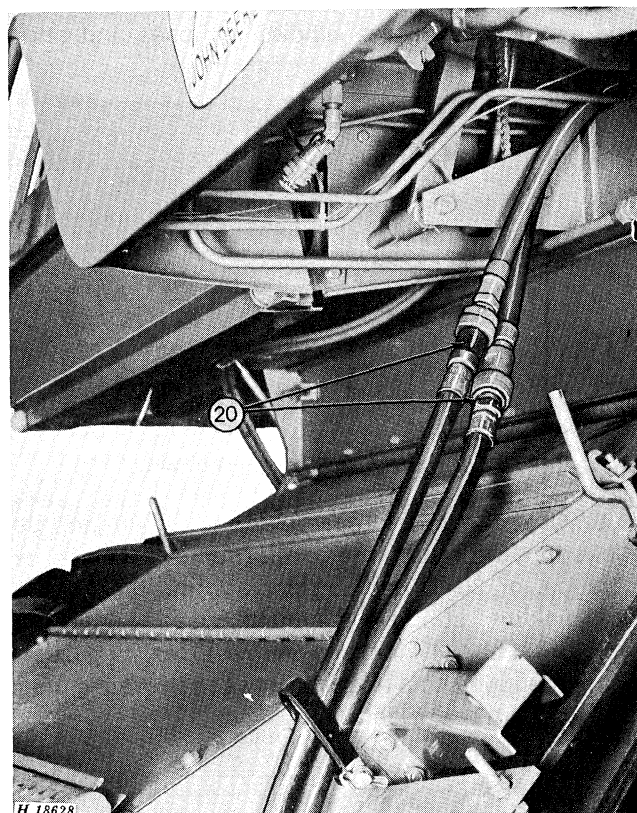
17. Install O-ring in coupler nose and install coupler nose to a 1/2-inch I.D. x 45-inch long hose.

18. Attach hose to lower tube.

19. Install clip around hoses and secure clip to carriage bolt (installed in Step 14), using a wing nut.

20. Attach hoses.

21. (Not illustrated) Operate the hydrostatic drive belt pickup. Check oil level in reservoir and, if necessary, fill to proper level. See combine operator's manual for correct oil.





Specifications

Width of Belt	22 inches	Type of Drive	Mechanical or Hydrostatic
Number of Pickup Fingers per Belt	70	Tire Pressure	12 psi
Number of Belts per Pickup:		Type of Pickup Fingers	Spring-tooth or Synthetic Plastic
88-Inch	4		
110-Inch	5		
132-Inch	6		
Number of Rollers	3		

(Specifications and design subject to change without notice)

MODEL NUMBER

☐ 88-inch ☐ 110-inch ☐ 132-inch

Date of Purchase _____

(To be filled in by purchaser)

