

DRAPER PLATFORM FOR 7700 COMBINE



JOHN DEERE

OPERATORS MANUAL DRAPER PLATFORM FOR 7700 COMBINE

OMH78032 K9 English

OMH78032 K9


LITHO IN THE U.S.A.
ENGLISH





To the Purchaser

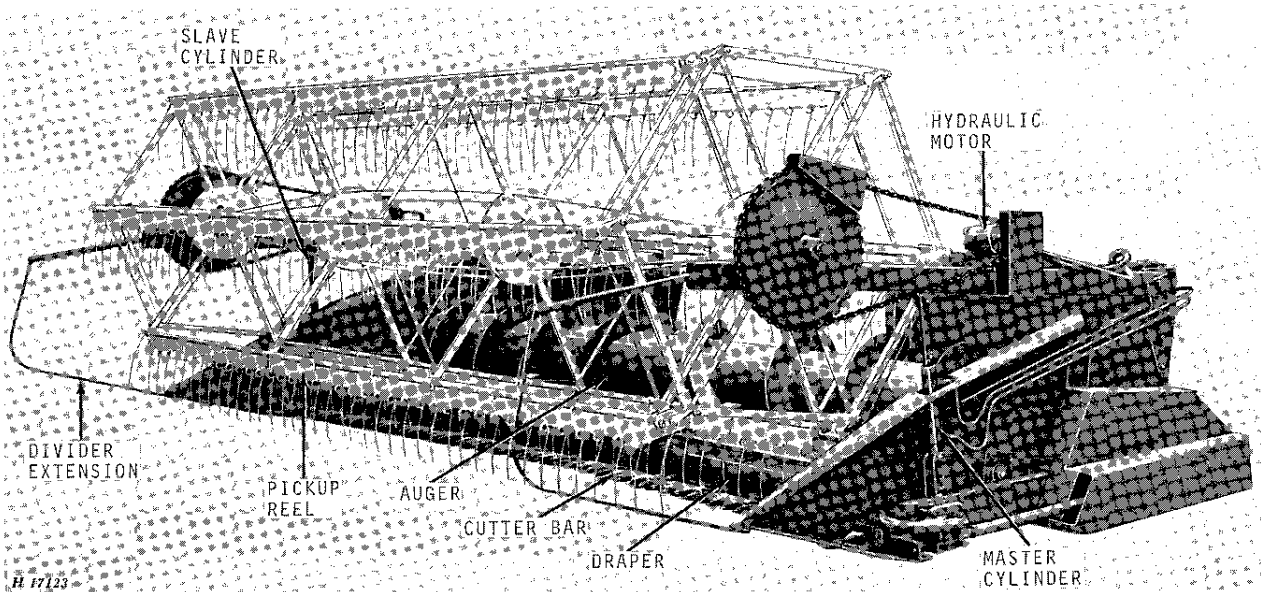
This new draper platform for the 7700 Combine was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is 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 draper platform will travel when in use.

Record Platform Serial Number and the date of purchase in the space provided on page 32. Your dealer needs this information to give you prompt, efficient service when you order parts. If your draper platform requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

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





Contents

	Page		Page
Operation	2	Assembly	11
Platform Height Control	2	Shipping Bundles	11
Hydraulic Lift Reel	2	Installing Cutter Bar	12
Hydrostatic Drive Reel	3	Attaching Knife to Bell Crank	13
Safety Suggestions	3	Installing Left-Hand Divider, Shoe, and Reel Support Arm	14
Lubrication	4	Installing Right-Hand Divider, Shoe, and Reel Support Arm	16
Adjustments and Service	5	Installing Drapers	18
Draper Platform	5	Installing Hydraulic Tubes	19
Adjusting Drapers	5	Installing Hydrostatic Motors and Hoses	21
Adjusting Platform Auger	6	Installing Reel	22
Adjusting Platform Auger Drive	6	Installing Knife, Auger, and Draper Drive Shields	23
Adjusting Draper Drive	6	Installing Hydraulic Lift Reel Control Lever and Valve Adapter	24
Adjusting Knife Register	7	Installing Hydrostatic Drive Reel Pump	26
Adjusting Control Valve	7	Installing Hydrostatic Drive Reel Valve and Hoses	28
Replacing Drapers	8	Attaching Platform and Connecting Hoses	31
Hydraulic Lift Reel	9		
Bleeding the System	9		
Hydrostatic Drive Reel	9		
Forward and Rearward Adjustment	9		
Pitch Adjustment	9		
Tightening Pump Drive Belt	10		
Tightening Reel Drive Chain	10		
Connecting Hoses	10	Specifications	32

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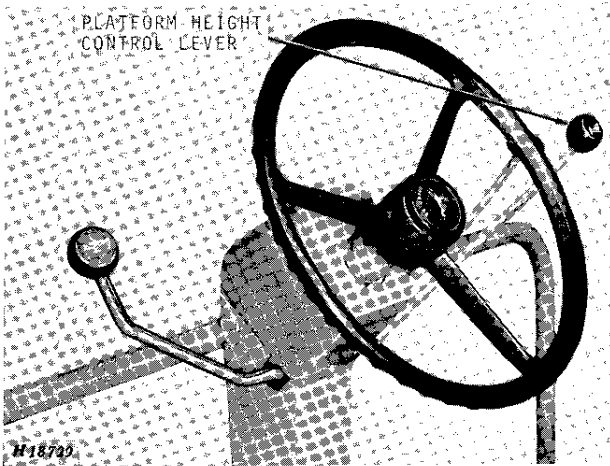
Operation

The basic operation of the draper platform is the same as the regular detachable platform and can be found in the operation section of the combine operator's manual.

The draper platform differs from the regular detachable platform in that three drapers are positioned between the extended cutter bar and platform auger. The drapers provide a greater distance between the cutter bar and platform auger.

With the extended cutter bar and positive feeding by the drapers, tall crops or downed and twisted crops are cut and conveyed evenly by the drapers eliminating bunching and uneven feeding of the crop to the platform auger, feeder conveyor, and threshing cylinder.

PLATFORM HEIGHT CONTROL

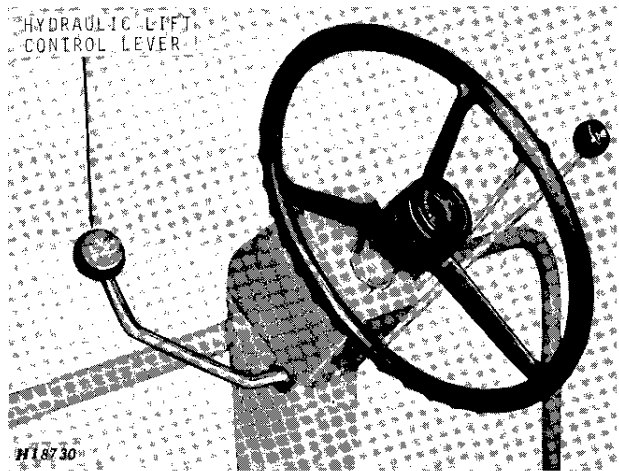


To lower the platform, move the platform height control lever forward.

To raise the platform, move the lever rearward.

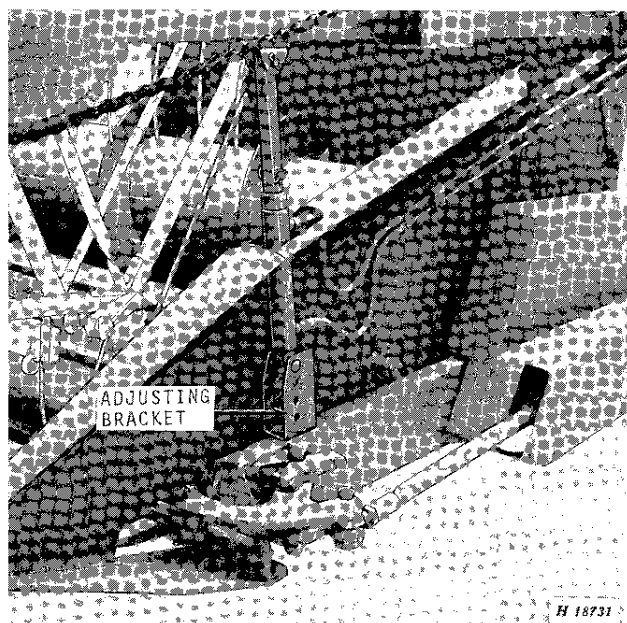
Regulate the speed of platform lowering by turning a cap screw on the control valve (see page 7).

HYDRAULIC LIFT REEL



To raise the reel, move the lever rearward. To lower the reel, move the lever forward. The lever automatically returns to neutral when released.

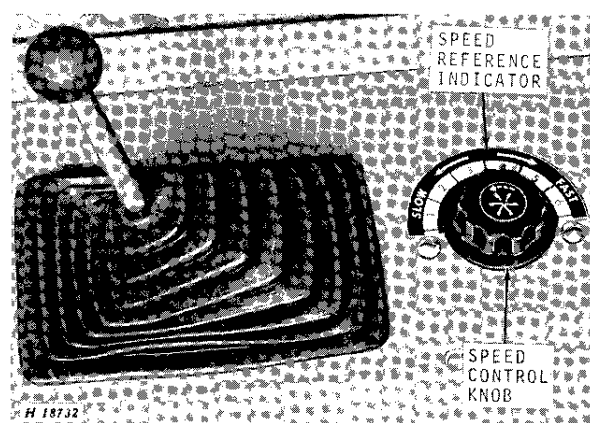
The control valve, located under the operator's platform, has an adjustment to control speed of reel lowering. Regulate the speed of reel lowering by turning a nut on the control valve (see page 7).



The height range of the reel is determined by the location of the bottom of the hydraulic cylinders in the adjusting brackets. Select the range that is right for the crop being harvested. Be certain that both cylinders are adjusted alike or the reel will not be level with the cutter bar.

IMPORTANT: When the hydraulic cylinders are completely retracted, be certain that the reel tines do not strike the cutter bar.

HYDROSTATIC DRIVE REEL



The reel speed may be changed from 0 rpm to 30 rpm (regular) or 30 rpm to 44 rpm (special) by turning the control knob on the console.

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

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

The reel may be adjusted forward or rearward and also for different pitch. See page 9.

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 draper platform 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 combine engine so no one can be struck by moving parts.

Always disengage drive and shut off the combine engine before working on the draper platform.

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 platform unless the combine is stopped and the combine engine is shut off.

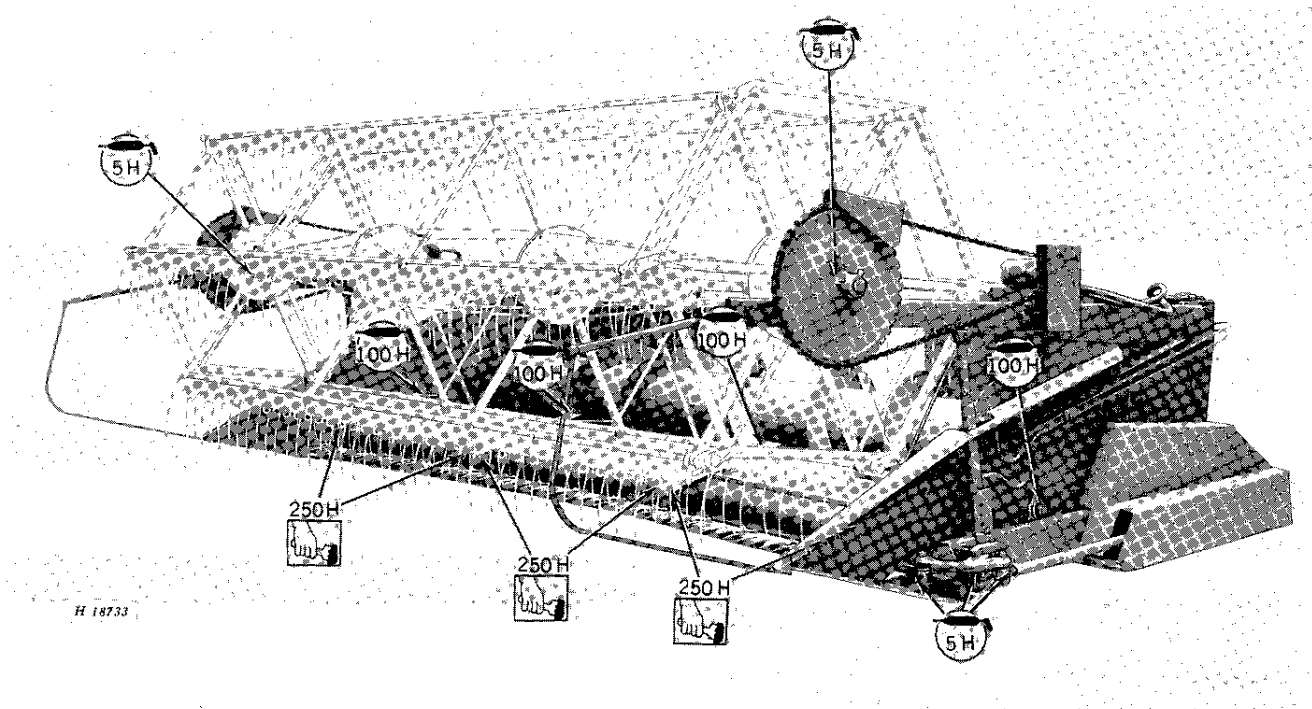


Lubrication

Grease fittings are provided at all points indicated in the lubrication chart. All parts provided with grease fittings should be lubricated as indicated with SAE multipurpose-type grease. If any grease fittings are missing, replace them immediately. *Clean the fittings*

thoroughly before using grease gun.

The period recommended is based on normal conditions; severe or unusual conditions may require more frequent lubrication.



SYMBOLS



Lubricate Every 5 Hours of Operation with SAE Multipurpose-Type Grease.



Lubricate Every 100 Hours of Operation with SAE Multipurpose-Type Grease.



Hand Pack Every 250 Hours of Operation with SAE Multipurpose-Type Grease.



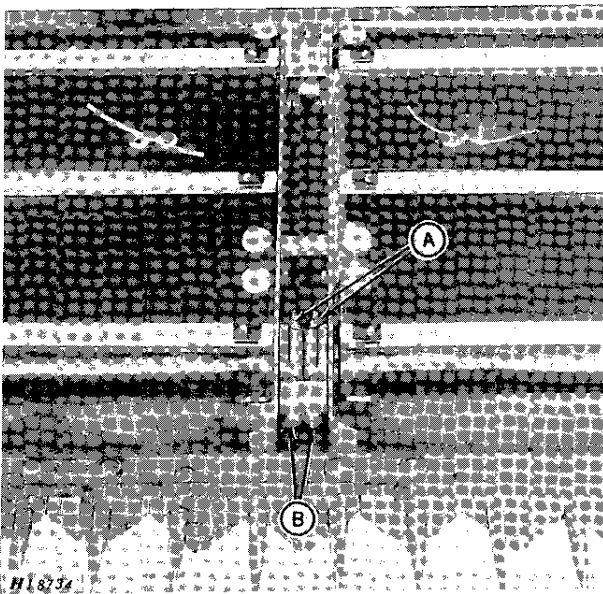
Adjustments and Service

DRAPER PLATFORM

The adjustments that pertain only to the draper platform are given in this section. Adjustments that are common to the regular detachable platform can be found in the ADJUSTMENTS AND SERVICE section in the combine operator's manual.

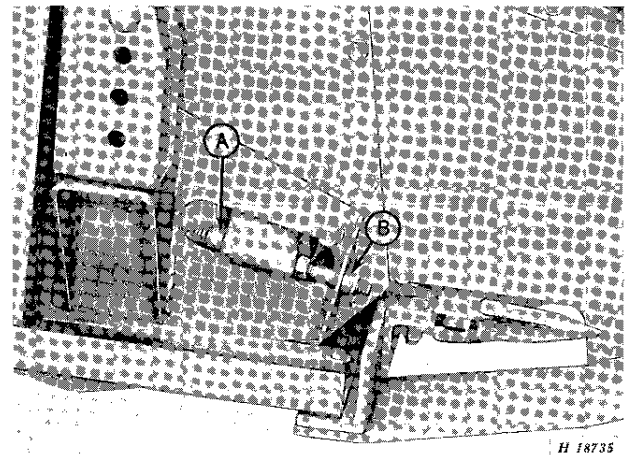
Adjusting Drapers

Adjust the drapers evenly on both sides to prevent them from moving to one side or the other.

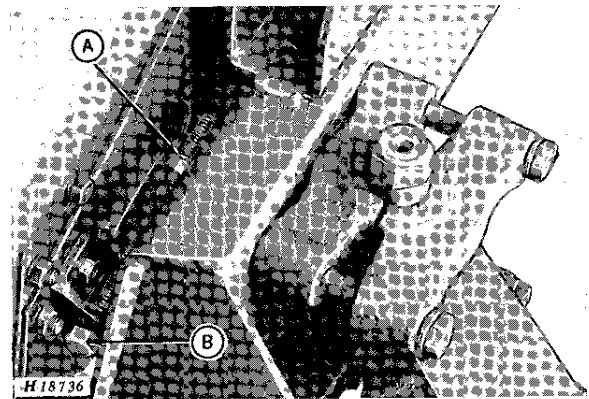


Between Drapers

For initial tightening of new drapers, tighten lock nuts "A" until the drapers will not slip while in operation. Do not overtighten.



Right-Hand Side



Left-Hand Side

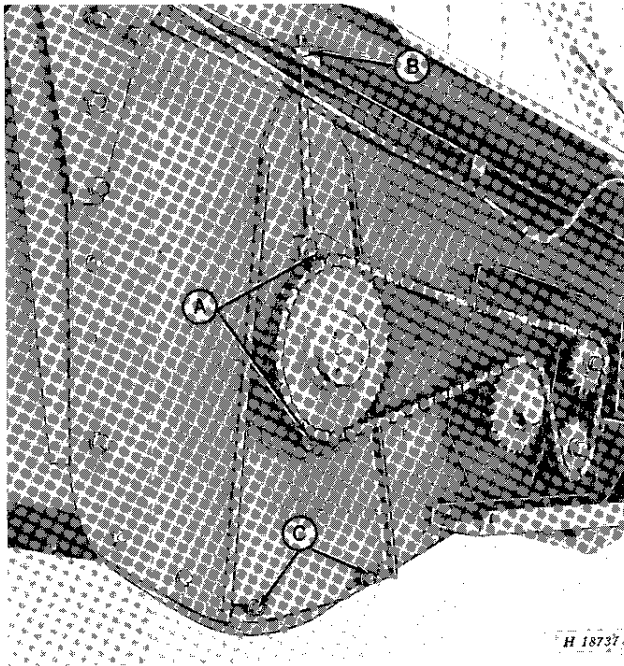
After drapers have stretched from use, tighten by turning lock nut "B."

IMPORTANT: If the combine will be sitting idle for a long period of time, release the tension on the drapers by loosening nuts "B" on right-hand side and between drapers and cap screw "B" on left-hand side.

Adjusting Platform Auger

Normally the auger must be adjusted close to the platform bottom to get smooth, even feeding. This adjustment is made at both outer ends.

If the auger is too high or does not have the same relationship at both ends, material will be carried around the auger and will not be fed properly to the feeder conveyor.



Right-Hand Side Illustrated

Height Adjustment

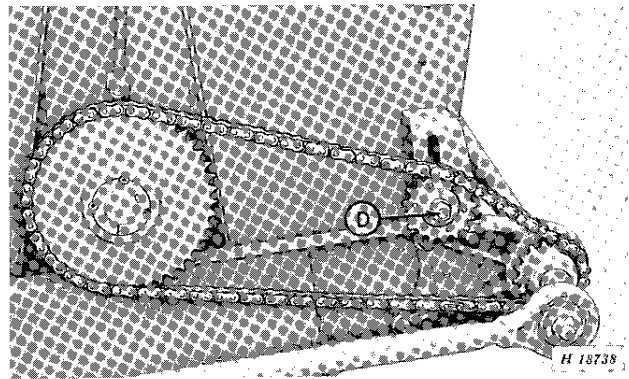
Loosen two bolts "A" in adjusting bracket on right-hand platform end sheet. Raise or lower the auger to the necessary height by turning nut "B." Tighten nuts "A." Follow the same procedure on the left-hand end sheet.

Forward and Rearward Adjustment

Loosen the two bolts "C" in the adjusting bracket on right-hand platform end sheet, pivot auger to the necessary position, and tighten nuts. Follow the same procedure on the left-hand end sheet.

IMPORTANT: Keep auger level and square with platform; be sure there is proper clearance between auger flights and stripper. Check drive chain tension.

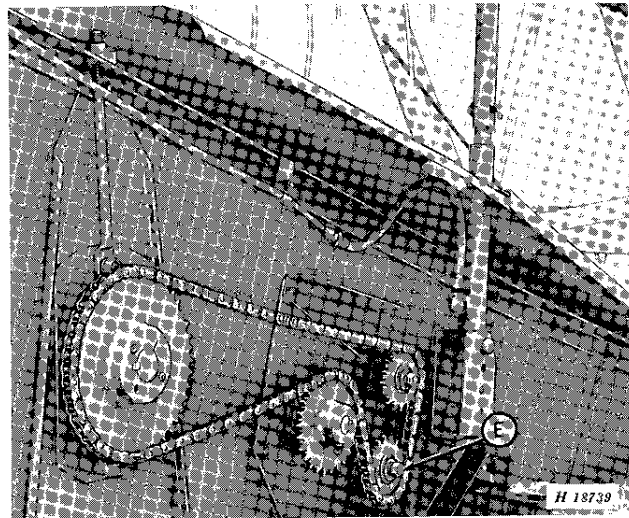
Adjusting Platform Auger Drive



Adjust the chain tight enough so it will run without climbing or jumping sprockets.

Loosen nut "D" and move tightener upward as necessary. Tighten nut "D."

Adjusting Draper Drive

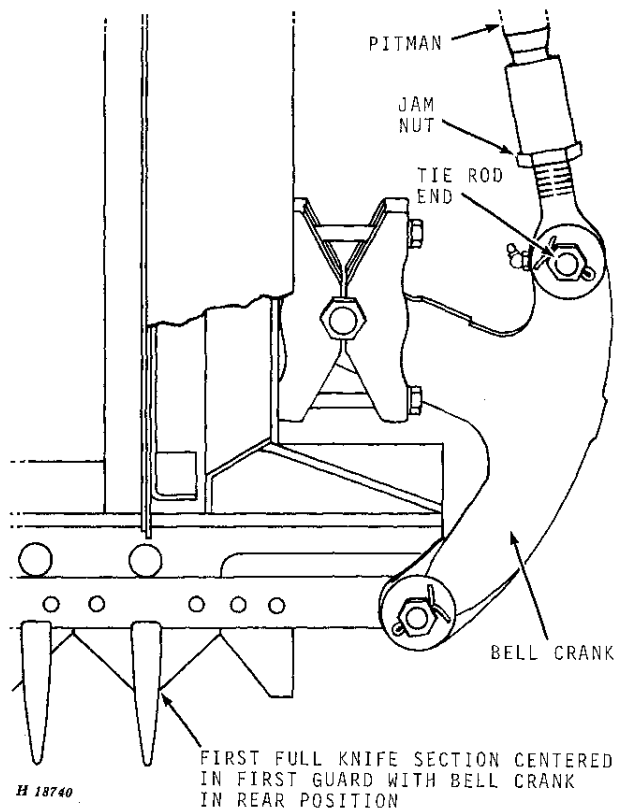


Adjust the chain tight enough so it will run without climbing or jumping the sprockets.

Loosen nut "E" and move tightener forward or rearward as necessary. Tighten nut "E."

Adjusting Knife Register

An important adjustment of the knife is its register. The knife is in proper register when the first full knife section is centered in the first guard on the left-hand end with the bell crank in its rear position. If such is not the case, the cut is incomplete on one stroke and excessive on the other, resulting in poor cutting and frequent clogging of the knife.



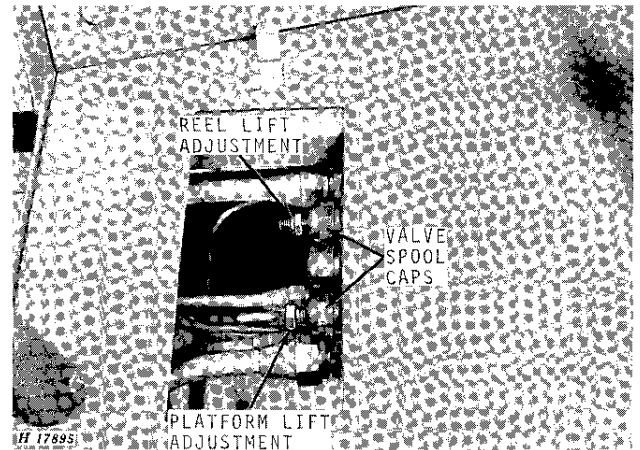
To adjust register, remove cotter pin from tie rod end and loosen nut. Break tie rod end loose from bell crank with lead hammer or use an automotive-type tie rod removal tool. Remove nut and lower pitman tie rod end.

Loosen jam nut and revolve tie rod end as many full turns, either direction, as necessary. Each complete turn is equivalent to 1/16 inch. Assemble tie rod end to bell crank, check register, and tighten jam nut.

Adjusting Control Valve

On the control valve, a rate of drop adjustment is provided for the cutting platform and the hydraulic lift reel.

This adjustment limits the travel of the control valve spools, thereby controlling the rate of drop of the platform or the reel.



Platform

To decrease the rate of drop of the platform, turn the cap screw in.

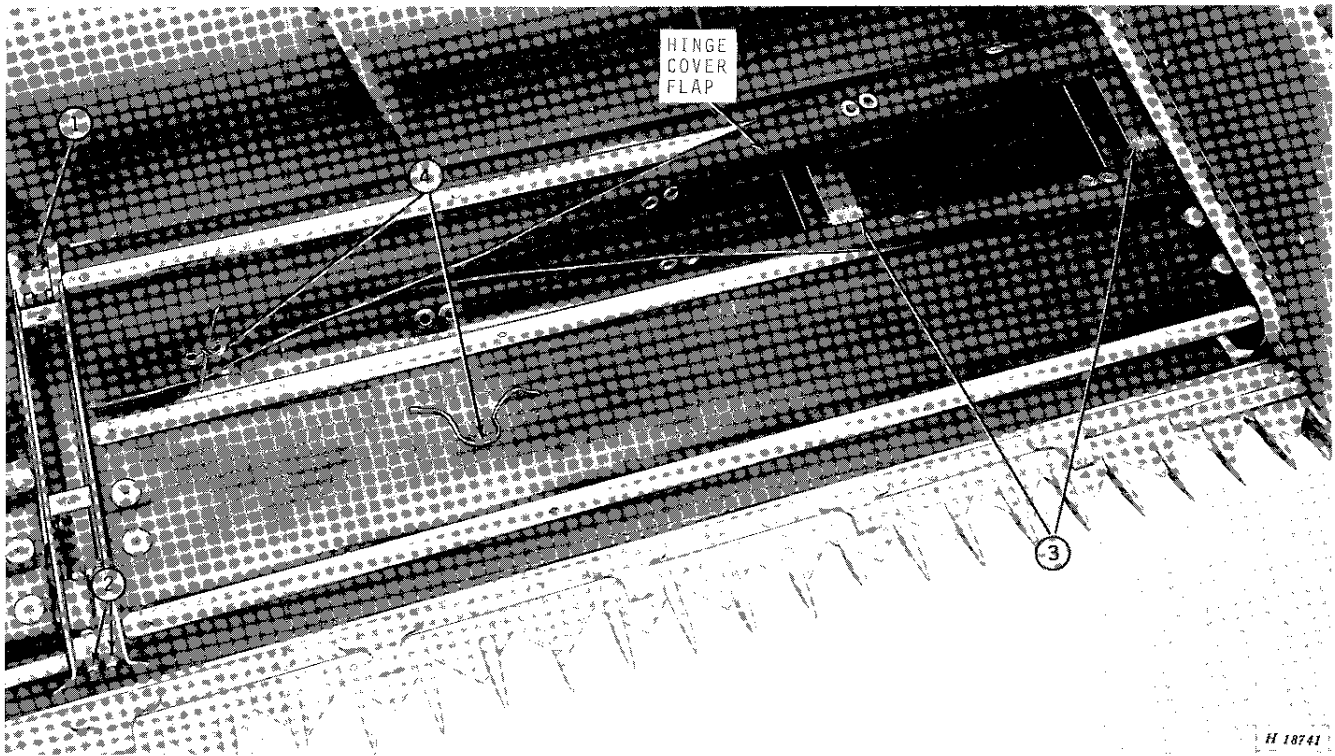
To increase the rate of drop of the platform, turn the cap screw out.

Reel

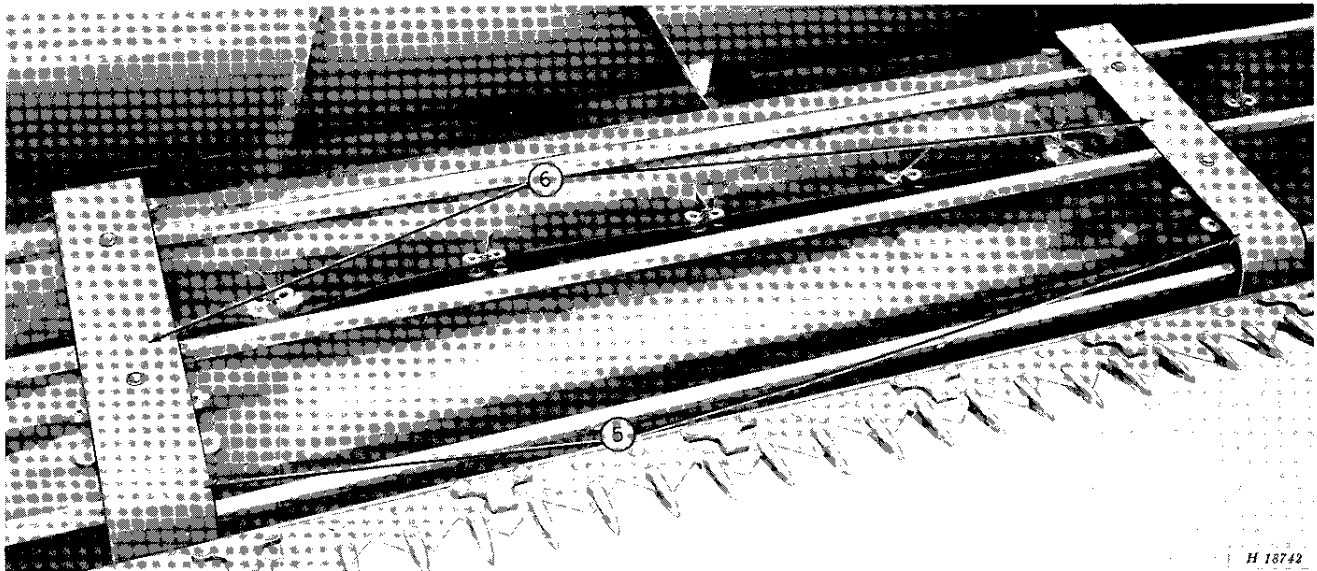
To decrease the rate of drop of the reel, turn lock nut on threaded stud toward the valve spool cap.

To increase the rate of drop of the reel, turn lock nut off threaded stud away from the valve spool cap.

Replacing Drapers



1. Remove shields.
2. Relieve tension on each end of draper idler roller.
3. Install drapers, making certain hinge cover flaps are to the rear.
4. Fasten flaps with rawhide lacing.



5. Adjust tension evenly on each end of draper roller.
6. Reinstall shields.



Suggest:

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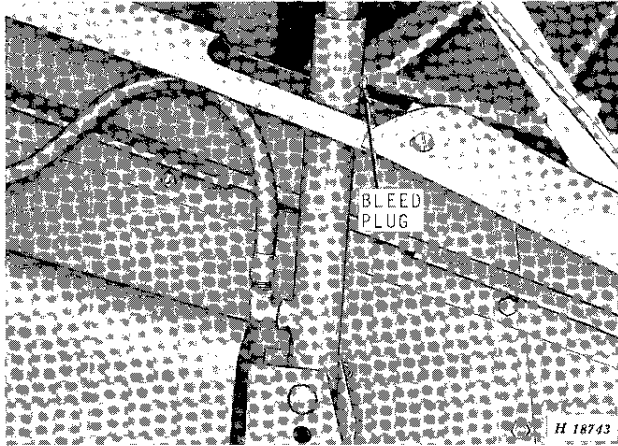
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HYDRAULIC LIFT REEL

Bleeding The System



If the hoses have been disconnected from the cylinder, all trapped air must be removed after the hoses have been connected.

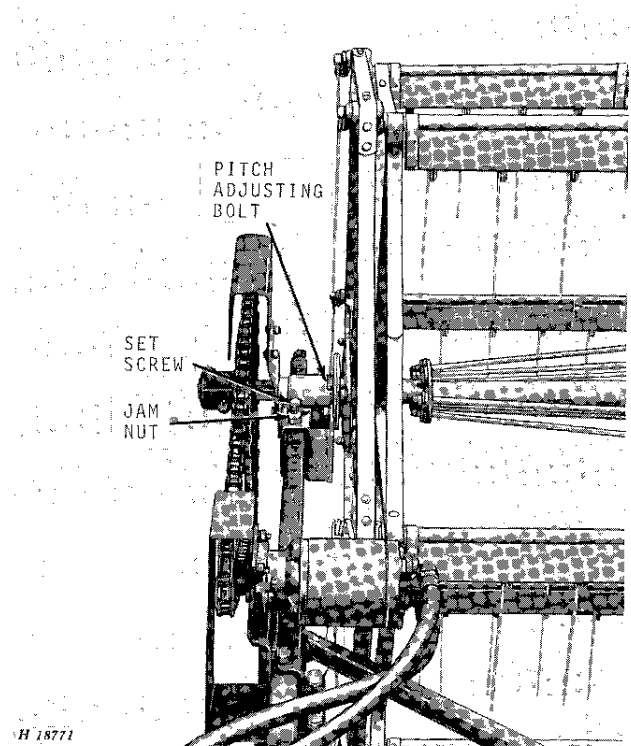
Open the bleed plug at the upper end of the slave cylinder on the right-hand side of the cutting platform. Then raise the reel. When oil flowing out the bleed plug opening is free of air bubbles, replace the bleed plug.

IMPORTANT: Be certain that the bleed plug is tight.

Thereafter, be certain the reel is always level with the cutter bar. If, during operation, one end of the reel is lower than the other, raise the reel to its highest position or lower the reel to its lowest position. When both hydraulic cylinders are completely extended or retracted, the reel can then be returned to its original position and it will automatically be level.

HYDROSTATIC DRIVE REEL

Forward And Rearward Adjustment



A series of holes is provided in the reel support arms so the reel can be moved forward or rearward.

To adjust, loosen jam nut and set screw, loosen motor support bracket, move the reel to desired position, turn set screw down, and tighten jam nut. Be sure to adjust both sides evenly.

Adjust drive chain tension. See page 10.

Pitch Adjustment

A series of holes is provided in the adjusting plates to adjust the pitch of the reel.

To adjust, loosen pitch adjusting bolts on both sides of reel, move reel to desired pitch, and replace and tighten adjusting bolts. Be sure both sides of reel are adjusted evenly.

Start with a pitch adjustment of about 5 degrees. Be careful not to set the reel with too much pitch. Too much pitch will cause the reel to wind with cut crop, because the spring fingers hold the crop after it is cut.

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