

HYDRAULIC LIFT REEL AND VARIABLE SPEED REEL ATTACHMENTS



JOHN DEERE

OPERATORS MANUAL HYDRAULIC LIFT REEL AND VARIABLE SPEED REEL ATTACHMENTS

OMH64924 A0 English

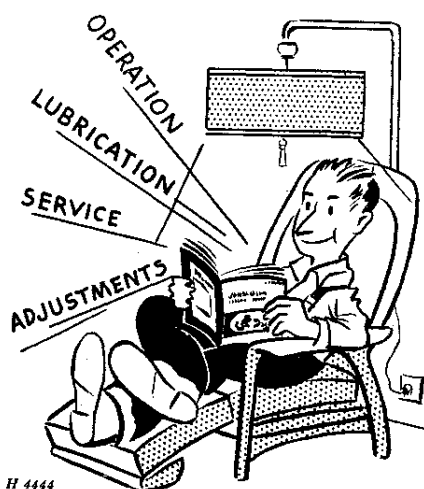
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ENGLISH



TO THE PURCHASER

This operator's manual contains information to install, operate, adjust and service your John Deere Hydraulic Lift Reel and Variable Speed Reel Attachments. Follow the recommendations in this manual and you will obtain maximum service and efficiency from these attachments.



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Study this manual carefully and keep it handy in a safe place for future reference.

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 these attachments. He has trained mechanics who

are kept informed on the best methods of John Deere servicing and can give you prompt know-how service in the field or in the shop.

Should you require replacement parts, go to your John Deere dealer where you will receive genuine John Deere parts—accept no substitutions. John Deere parts fit properly and insure satisfactory service because they are made from the same material as used in new machines.

LOCATION REFERENCE

"Right-hand" and "left-hand" sides are determined by facing in the direction the combine 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.

APPLICATION

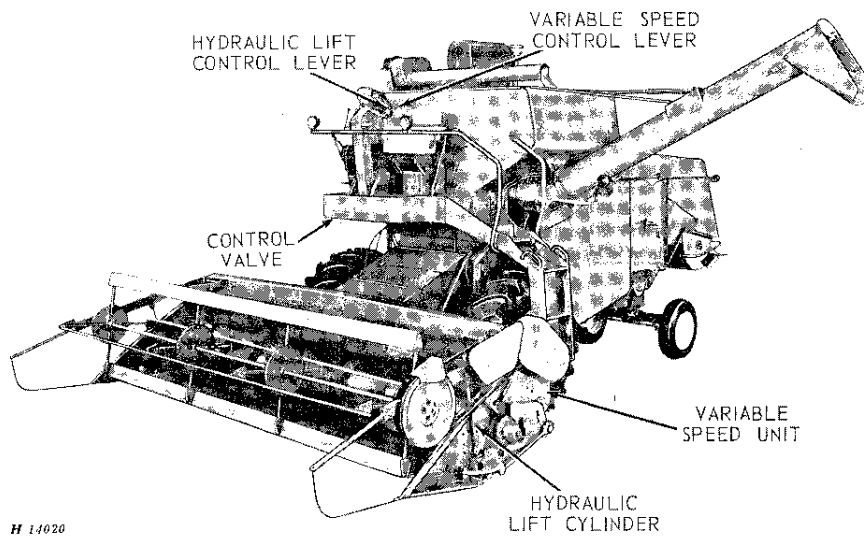
The hydraulic lift reel and variable speed reel attachments can be installed on the following John Deere combines:

- 55 Combine, Serial No. 55-83001 and up
- 95 Combine, Serial No. 95-35001 and up
- 105 Combine, Serial No. 105-10001 and up

Date of purchase _____

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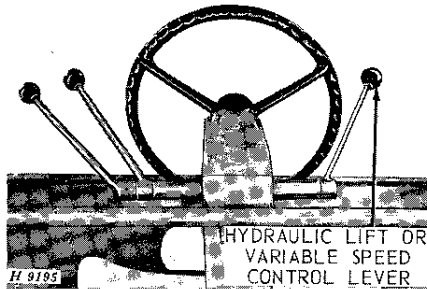
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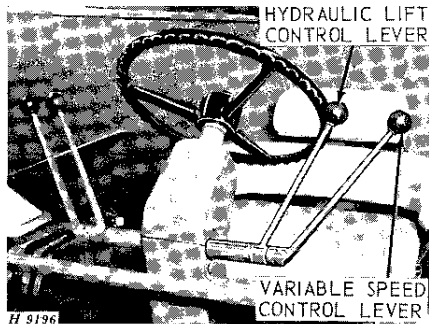
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OPERATION



Control Lever for Combine Equipped with Either Hydraulic Lift Reel or Variable Speed Reel



Control Levers for Combine Equipped with Both Hydraulic Lift Reel and Variable Speed Reel

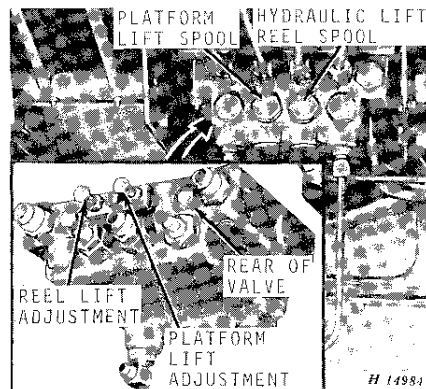
HYDRAULIC LIFT REEL

The hydraulic lift reel attachment enables the operator to control the height of the reel from the operator's platform.

The hydraulic lift reel is controlled by a lever on the left-hand side of the steering column.

NOTE: If the combine is also equipped with the variable speed reel attachment, the hydraulic lift reel control lever is the inner of the two levers on the left-hand side of the steering column.

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



Cap Screw for Lowering Speed Adjustment

The control valve, located under the operator's platform, has an adjustment to control speed of reel lowering. A cap screw located on the rear of the valve, can be turned in or out to change spool travel. By turning cap screw in, lowering speed is decreased; by turning cap screw out, lowering speed is increased.

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 slats or tines (pickup reel) do not strike the cutter bar.

VARIABLE SPEED REEL

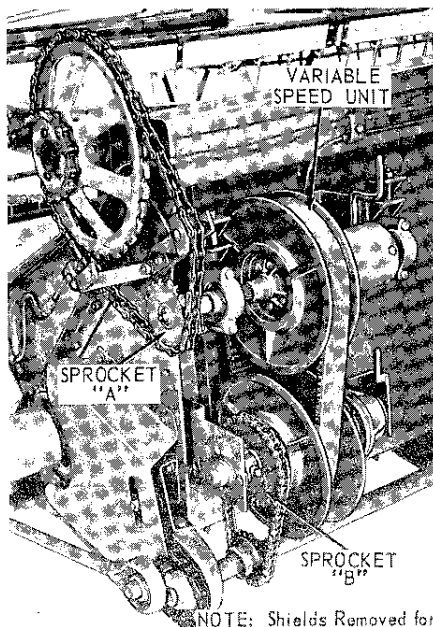
The variable speed reel attachment enables the operator to vary the speed of the reel without leaving the operator's platform.

The variable speed reel is controlled by a lever on the left-hand side of the steering column.

NOTE: If the combine is also equipped with the hydraulic lift reel attachment, the variable speed reel control lever is the outer of the two levers on the left-hand side of the steering column.

To increase reel speed, move the lever forward. To decrease the reel speed, move the lever rearward. The lever automatically returns to neutral when released.

SPEED RANGE



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NOTE: Shields Removed for Illustration Purposes.

The speed range for the 55 Combine equipped with the variable speed reel is 14.4 to 43.2 rpm. For the 95 and 105 Combines, the speed range is 15.0 to 45.0 rpm.

If sprockets "A" and "B" in the foregoing illustration are reversed, the speed range for the 55 Combine will be 26.7 to 80.1 rpm and for the 95 and 105 Combines it will be 27.8 to 83.4 rpm.

A 40 tooth sprocket and an 18 tooth sprocket are available as special equipment to provide a wider range of reel speeds. The following charts show the speed ranges that may be obtained with the regular and special sprockets.

55 COMBINE

Sprockets "A"	Sprockets "B"		
	H35715H 22 T	H35716H 30 T	H35718H 40 T
H35717H 18 T	16.1-48.3	11.7-35.1	8.8-26.4*
H35715H 22 T	19.8-59.4	14.4-43.2*	10.8-32.4
H35716H 30 T	26.7-80.1*	19.8-59.4	14.7-44.1

95 AND 105 COMBINES

Sprockets "A"	Sprockets "B"		
	H35715H 22 T	H35716H 30 T	H35718H 40 T
H35717H 18 T	16.7-50.1	12.2-36.6	9.2-27.6*
H35715H 22 T	20.5-61.5	15.0-45.0*	11.2-33.6
H35716H 30 T	27.8-83.4*	20.5-61.5	15.3-45.9

* These sprocket combinations are recommended. These combinations do not require adding or removing links from the reel drive chain. If other sprocket combinations are used, add or remove chain links as necessary.

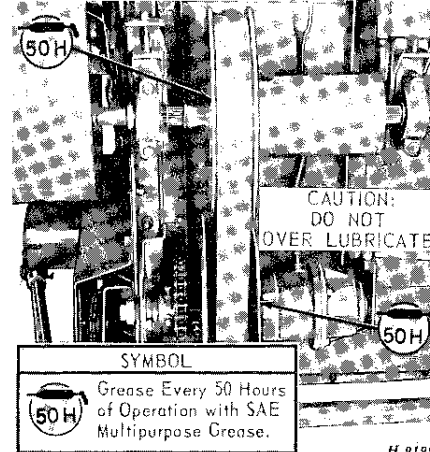
LUBRICATION

LINKAGES

Keep the linkages, clevises, and bellcranks located in the steering column and under the operator's platform well lubricated so they will work easily and will not bind. Use a few drops of SAE 30 oil at frequent intervals.

CHAINS

Lubricate chains daily with SAE 30 engine oil. A paint brush is a good instrument for applying oil to chains.

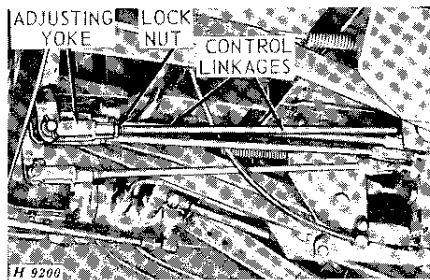


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Lubrication of Variable Speed Unit

ADJUSTMENTS AND SERVICE

CONTROL LEVER LINKAGES

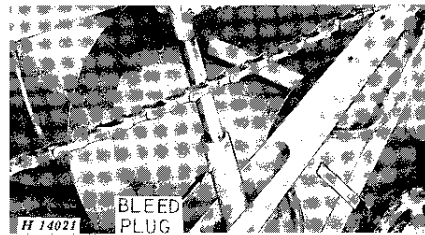


Keep the control lever or levers for these attachments in line with the other levers on steering column.

To adjust the alignment of levers, disconnect the front end of the linkage (located under the operator's platform) from the bellcrank. Loosen lock nut on linkage rod and adjust yoke in or out to align levers. Tighten lock nut and connect linkage to bellcrank.

After adjusting linkage, be certain there is full movement of control lever and that there is no binding in the linkages.

HYDRAULIC LIFT REEL



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

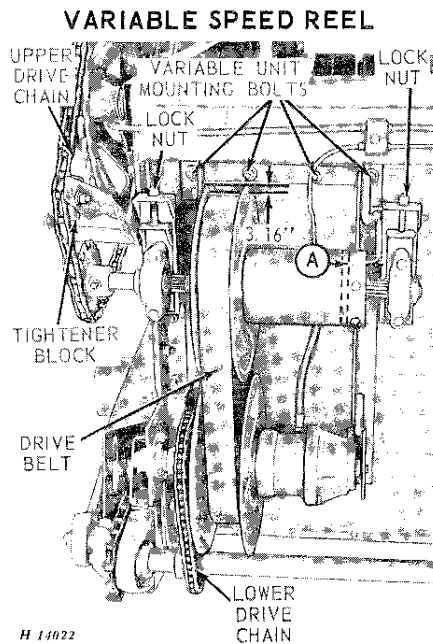
Open the bleed plug at the upper end of the slave cylinder on the left-hand side of the cutting platform. Then, raise the reel. When oil flowing out the bleed plug opening is free of air bubbles, replace the bleed plug.

IMPORTANT: Be certain that the bleed plug is tight.

Thereafter, be certain the reel is always level with the cutterbar. 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.

NOTE: Adjust each lock nut up or down one turn at a time so upper sheave assembly will be parallel with lower sheave assembly. This is important to prevent excessive wear on belt.



DRIVE BELT ADJUSTMENT

With the separator and cutting platform running, operate the control lever so that the lower sheave of the variable speed unit is completely open.

Turn combine engine off and check location of variable drive belt in upper sheave groove. Top of belt should be 3/16-inch below top of sheave groove.

If adjustment is necessary, tighten or loosen lock nuts on bearing housing of the upper sheave assembly until belt is in proper location.

SPRING TENSION ADJUSTMENT

The spring tension for the upper sheave assembly is correct when dimension "A" is 1-inch to 1-1/8-inch with the sheave halves completely closed. If necessary, loosen or tighten the three lock nuts on spring retainer plate to obtain this dimension.

DRIVE CHAIN TENSION ADJUSTMENT

Keep the lower and upper reel drive chains in proper tension at all times.

To adjust the tension of the lower drive chain, loosen the four bolts at the top and the two bolts at the bottom of the variable sheave unit and slide unit up or down as necessary to obtain proper chain tension. Make certain unit is square with platform and tighten six bolts.

After adjusting lower chain, adjust upper chain with tightener block.

CAUTION: Never operate the variable speed unit without the separator and cutting platform running. Serious damage to the unit may result.

SHIPPING PACKAGES

HYDRAULIC LIFT REEL			
		AH 63031	Line (20' Platform) (Order 2)
BH 60378	Hydraulic Lift Reel Parts	AH 60486	Line (20' Platform)
and either		or	
AH 20721 H	Reel Lift Middle Tube (For all Platforms except 15' Platform)	AH 20741 H	Line (22' Platform)
or		AH 20742 H	Line (22' Platform)
		AH 20743 H	Line (22' Platform)
AH 63030	Reel Lift Middle Tube (For 15' Platform)	Combines equipped with hydraulic lift reel and variable speed reel si- multaneously	
and either			
AH 63572	Reel Lift Tube (Not for Hydraulic Drive Combines)	BH 60375	Outer Control Lever and Parts (Not for Hydraulic Drive Combines)
or		or	
AH 63573	Reel Lift Tube (For Hydraulic Drive Combines)	BH 60377	Outer Control Lever and Parts (For Hy- draulic Drive Com- bines)
and either			
AH 62036	Pressure Hose (Grain Feeder House)	and either	
or		BH 60374	Inner Control Lever and Parts (Not for Hydraulic Drive Combines)
AH 62037	Pressure Hose (Rice Feeder House)	or	
and either			
AH 20726 H	Line (12' Platform)	BH 60376	Inner Control Lever and Parts (For Hy- draulic Drive Com- bines)
AH 20727 H	Line (12' Platform)		
AH 20728 H	Line (12' Platform)	and either	
or		AH 63560	Control Valve (4 Spool) (Not for Hy- draulic Drive Com- bines)
AH 20729 H	Line (13' Platform)	or	
AH 20730 H	Line (13' Platform)	AH 63564	Control Valve (3 Spool) (For Hydraul- ic Drive Combines)
AH 20731 H	Line (13' Platform)		
or			
AH 20732 H	Line (14' Platform)		
AH 20733 H	Line (14' Platform)		
AH 20734 H	Line (14' Platform)		
or			
AH 63031	Line (15' Platform) (Order 2)		
AH63032	Line (15' Platform)		
or			
AH 20735 H	Line (16' Platform)		
AH 20736 H	Line (16' Platform)		
AH 20737 H	Line (16' Platform)		
or			
AH 20738 H	Line (19' Platform)		
AH 20739 H	Line (19' Platform)		
AH 20740 H	Line (19' Platform)		
or			

COMBINES EQUIPPED WITH VARIABLE SPEED REEL

BH 60375	Control Lever and Parts (Not for Hy- draulic Drive Com- bines)
or	
BH 60377	Control Lever and Parts (For Hydraul- ic Drive Combines)



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AH 63560 or	Control Valve (4 Spool) (Not for Hydraulic Drive Combines)	PRESSURE LINES REQUIRED FOR 4 SPOOL VALVE	
AH 63564	Control Valve (3 Spool) (For Hydraulic Drive Combines)	AH 63584	(55 Combine)
		or	
		AH 63588	(95 Combine)
		or	
		AH 63592	(105 Combine)

COMBINES NOT EQUIPPED WITH VARIABLE SPEED REEL

BH 60374 or	Control Lever and Parts (Not for Hydraulic Drive Combines)
BH 60376	Control Lever and Parts (For Hydraulic Drive Combines)
and either AH 63558 or	Control Valve (3 Spool) (Not for Hydraulic Drive Combines)
AH 63562	Control Valve (2 Spool) (For Hydraulic Drive Combines)

VARIABLE SPEED REEL

BH 60379	Variable Speed Unit
and either AH 63571 or	Tube (Not for Hydraulic Drive Combines)
AH 63574	Tube (For Hydraulic Drive Combines)
and either AH 62036 or	Pressure Hose (Grain Feeder House)
AH 62037	Pressure Hose (Rice Feeder House)
and either AH 20714 H or	Line (12' Platform)
AH 20715 H	Line (13' Platform)
or	
AH 20716 H	Line (14' Platform)
or	
AH 63033	Line (15' Platform)
or	
AH 20717 H	Line (16' Platform)
or	
AH 20718 H	Line (19' Platform)
or	
AH 60484	Line (20' Platform)
or	
AH 20719 H	Line (22' Platform)

PRESSURE LINES REQUIRED FOR 2 SPOOL VALVE

AH 63582	(55 Combine)
or	
AH 63586	(95 Combine)
or	
AH 63590	(105 Combine)

PRESSURE LINES REQUIRED FOR 3 SPOOL VALVE

AH 63583	(55 Combine)
or	
AH 63587	(95 Combine)
or	
AH 63591	(105 Combine)

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