

John Deere Hydraulic Lift Reel and Variable Speed Reel Attachments



OPERATORS MANUAL

John Deere Hydraulic Lift Reel and Variable
Speed Reel Attachments

OMH91105 K3 English

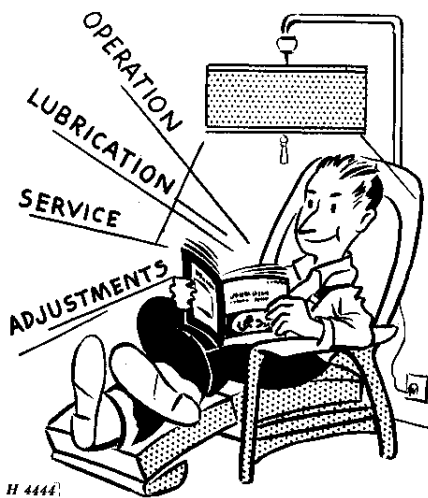
OMH91105 K3

LITHO IN U.S.A.
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.



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 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.

"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.

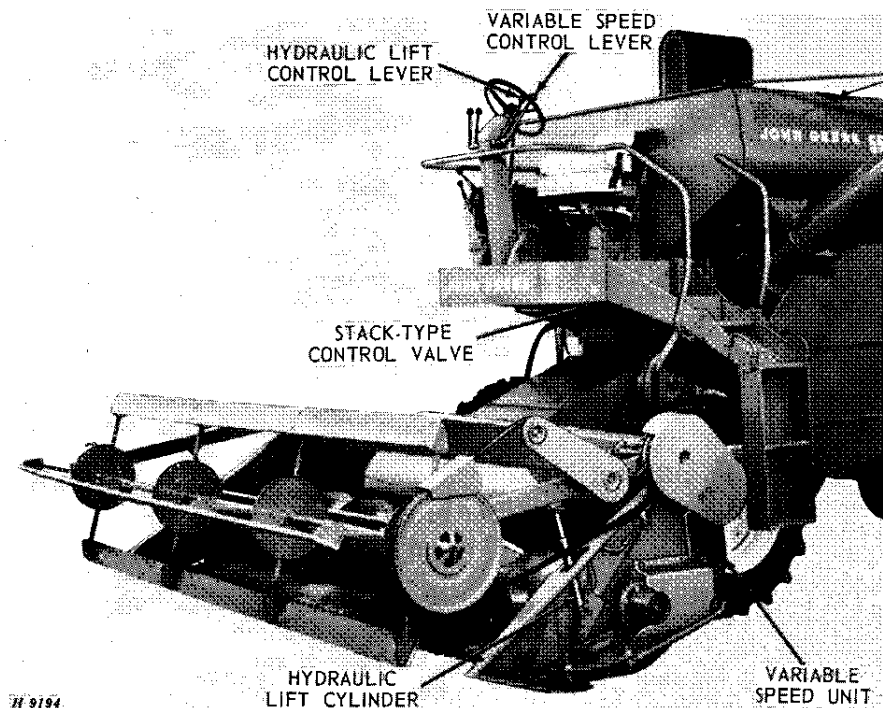
The hydraulic lift reel and variable speed reel attachments can be installed on the following John Deere combines:

- 55 Combine, Serial No. 55-69001 and up
- 95 Combine, Serial No. 95-20001 and up
- 105 Combine, Serial No. 105-3001 and up

Date of purchase _____

CONTENTS

	Page
Operation	2
Lubrication	4
Adjustments and Service	4
Shipping Packages	6
Installation	7-20
Removal of Standard Reel Parts	7
Installation of Control Lever or Levers	7
Removal, Assembly, and Installation of Stack Type Control Valve	10
Installation of Hydraulic Lift Reel Cylinder, Lines, and Hoses . .	15
Installation of Variable Speed Reel Unit, Lines, and Hoses	17
Adding Oil and Checking Attachment After Assembly	20



<https://www.ebooklibonline.com>

Hello dear friend!

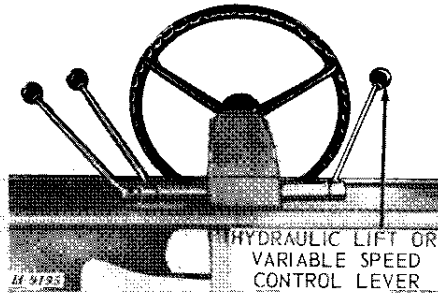
Thank you very much for reading.

Enter the link into your browser.

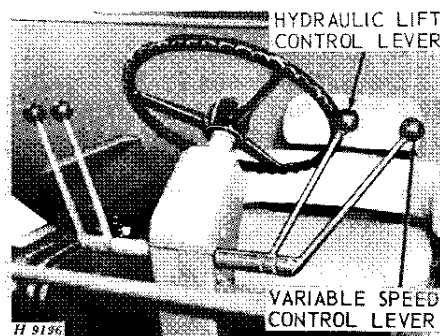
The full manual is available for immediate download.

<https://www.ebooklibonline.com>

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

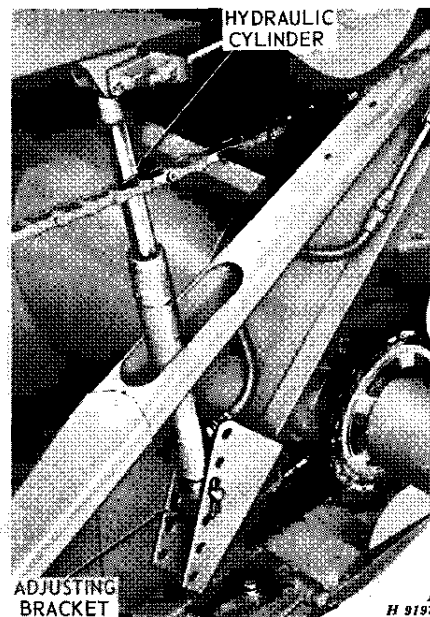
HYDRAULIC LIFT REEL

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.



Reel Height Range Adjusting Bracket

The height range of the reel is determined by the location of the bottom of the hydraulic cylinders in the adjusting brackets.

The crop to be harvested determines the reel height range. Be certain that each cylinder, at either end of the platform, is located in the proper hole 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

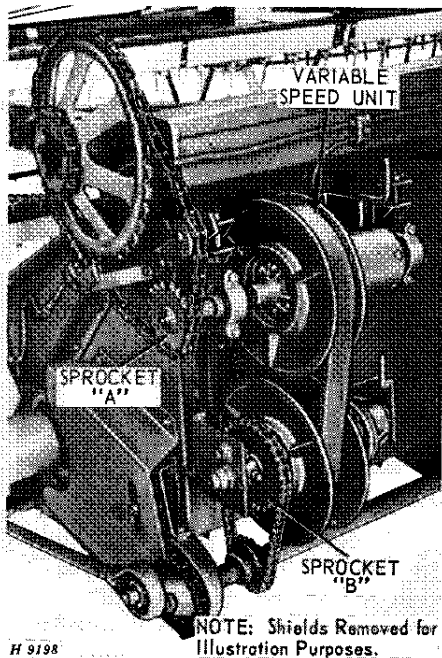
The variable speed reel attachment enables the operator to vary the speed of the reel without leaving the operator's platform.

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



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.

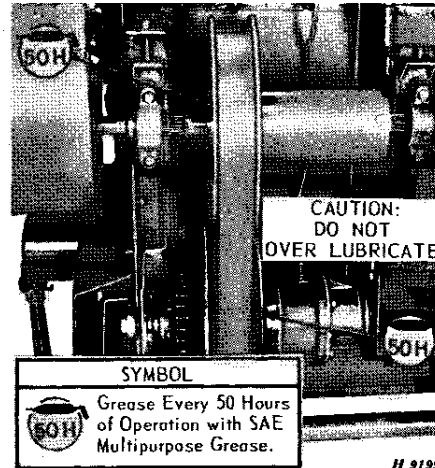
LUBRICATION

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 10W oil at frequent intervals.

CHAINS

Lubricate chains with SAE 10W oil unless operating in sandy conditions. Oil will cause sand to stick to chains and act as an abrasive. A paint brush is a good instrument for applying oil to chains.

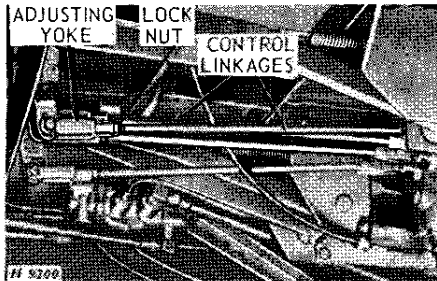


H 9199

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.

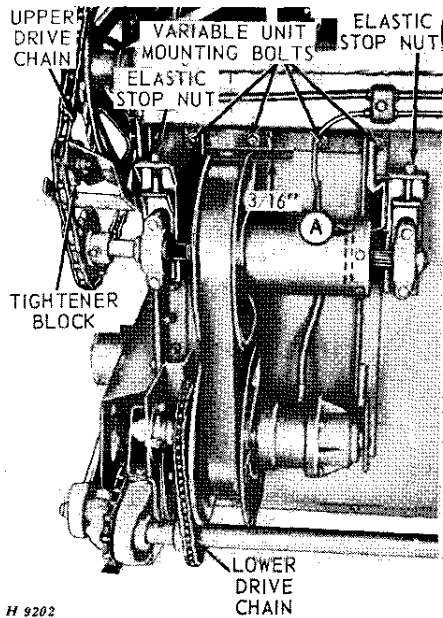
HYDRAULIC LIFT REEL

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.



Air can be bled from the hydraulic lines by opening the plug at the front upper end of slave lifting cylinder on the left-hand side of the cutting platform. After bleeding lines, be certain plug is tight in cylinder.

VARIABLE SPEED REEL



NOTE: Adjust each stop 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.

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 stop nuts to obtain this dimension.

DRIVE CHAIN TENSION ADJUSTMENT

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

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 elastic stop nuts on bearing housings of the upper sheave assembly until belt is in proper location.

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.



Suggest:

If the above button click is invalid.

Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading

SHIPPING PACKAGES

HYDRAULIC LIFT REEL

BH 11905 H Hydraulic Lift Reel Parts
 AH 20710 H Hydraulic Hose—Regular Feeder House
 or
 AH 20711 H Hydraulic Hose—Rice Feeder House
 BH 11983 H 1st Control Valve Parts—(Not required if combine is equipped with Variable Speed Reel)
 or
 BH 11984 H 2nd Control Valve Parts—(Required if combine is already equipped with Variable Speed Reel)
 AH 20721 H Reel Lift Middle Line
 AH 20725 H Reel Lift Tube
 AH 20726 H Reel Lift R.H. Line—12-ft.
 AH 20727 H Reel Lift L.H. Line—12-ft.
 AH 20728 H Reel Lift R.H. Pressure Line—12-ft.
 or
 AH 20729 H Reel Lift L.H. Line—13-ft.
 AH 20730 H Reel Lift R.H. Line—13-ft.
 AH 20731 H Reel Lift R.H. Pressure Line—13-ft.
 or
 AH 20732 H Reel Lift R.H. Line—14-ft.
 AH 20733 H Reel Lift L.H. Line—14-ft.
 AH 20734 H Reel Lift R.H. Pressure Line—14-ft.
 or
 AH 20735 H Reel Lift R.H. Line—16-ft.
 AH 20736 H Reel Lift L.H. Line—16-ft.
 AH 20737 H Reel Lift R.H. Pressure Line—16-ft.
 or
 AH 20738 H Reel Lift R.H. Line—19-ft.

AH 20739 H Reel Lift L.H. Line—19-ft.
 AH 20740 H Reel Lift R.H. Pressure Line—19-ft.
 or
 AH 20741 H Reel Lift R.H. Line—22-ft.
 AH 20742 H Reel Lift L.H. Line—22-ft.
 AH 20743 H Reel Lift R.H. Pressure Line—22-ft.

VARIABLE SPEED REEL

BH 11985 H Variable Speed Unit
 AH 20710 H Hydraulic Hose—Regular Feeder House
 or
 AH 20711 H Hydraulic Hose—Rice Feeder House
 BH 11983 H 1st Control Valve Parts—(Not required if combine is equipped with Hydraulic Lift Reel)
 or
 BH 11984 H 2nd Control Valve Parts—(Required if combine is already equipped with Hydraulic Lift Reel)
 AH 20712 H Variable Speed Tube
 AH 20714 H Hydraulic Line—12-ft.
 or
 AH 20715 H Hydraulic Line—13-ft.
 or
 AH 20716 H Hydraulic Line—14-ft.
 or
 AH 20717 H Hydraulic Line—16-ft.
 or
 AH 20718 H Hydraulic Line—19-ft.
 or
 AH 20719 H Hydraulic Line—22-ft.
 H 35718 H Reel Drive Sprocket—40T—For Low Speed Range

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>