

**FEED ROLLS
ATTACHMENT FOR NO. 12-A
COMBINE & NO. 12-A
COMBINE EQUIPPED
WITH FEED ROLLS
(SERIAL NO. 12-87604 & UP)**



JOHN DEERE

OPERATORS MANUAL

FEED ROLLS ATTACHMENT FOR NO. 12-A
COMBINE & NO. 12-A COMBINE EQUIPPED WITH
FEED ROLLS (SERIAL NO. 12-87604 & UP)

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TO THE PURCHASER

The purpose of this Manual is to give you useful information on how to operate your John Deere No. 12-A Combine equipped with Feed Rolls.

Information regarding setting-up of the John Deere No. 12-A Combine will be found in the Setting-Up Manual, OM-H4. General Operation of the John Deere No. 12-A Combine will be found in the Operator's Service Manual, OM-H3.

This Feed Rolls Attachment will handle flax and other hard-to-thresh crops. See Adjustments for Various Crops.

Before operating Combine in a different crop, see that it is properly adjusted for that crop.

Be sure to have the proper roll spacing.

Check roll pressure from time to time.

Keep strippers properly adjusted to prevent leakage of material.

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INSTRUCTIONS FOR ADJUSTING AND OPERATING JOHN DEERE No. 12-A COMBINE EQUIPPED WITH FEED ROLLS

The lower feed roll is of heavy steel tubing and the upper roll is of extra tough rubber vulcanized over steel—both rolls are full length of cylinder.

The combination rubber and steel rolls crush the flax bolls or seed pods and free the seed without injury, thus allowing easy separation at the cylinder. The rolls because of their slow-feeding action, are also beneficial in threshing other crops listed under "Adjustments for Various Crops". The cylinder does little other than loosen up the material and pass it over the grate surface onto the straw rack.

The top roll runs slightly faster than the lower roll giving a rubbing action which further adds to clean threshing. Pressure on top roll is maintained by heavy coil springs. The tension of springs is readily adjusted.

FIELD ADJUSTMENTS

In general, the field adjustments for the No. 12-A Combine with feed rolls are the same as those for the standard No. 12-A. Refer to your copy of the "Operator's Service Manual", OM-H3.

The field adjustments of the feed roll unit consists of roll spacing and roll pressure. These adjustments are easily made.

Roll Spacing

There should be a slight opening between the rolls. They should not contact each other. The amount of opening required depends upon the crop being handled. Specific roll spacings will be given under the heading "Adjustments for Various Crops".

Roll Pressure

Pressure adjustment is independent of spacing adjustment. Crops that are hard to thresh require a greater pressure than those that thresh easily.

To Adjust Pressure: Turn hexagon nut "B", Figure 1, below support bracket for adjusting bolt, to the **left to increase** and to the **right to decrease** spring tension; adjust both sides evenly. Amount of pressure can be determined by measuring spring compression as shown at "C", Figure 1. This varies, see "Adjustments for Various Crops".

Lower Roll Stripper Adjustments

Strippers are provided for front and rear of lower roll to prevent leakage of material. They should be adjusted to just clear roll at all times.

Adjustment of Front Stripper: Front stripper "D", Figure 1, (leather) should be adjusted to the rear so it just touches roll. To Adjust: Loosen bolts and slide stripper toward roll. Holes are slotted. Adjust evenly full length of roll.

Adjustment of Roll Spacing. Turn adjusting bolt "A", Figure 1, to obtain proper opening. Check with shim for desired spacing. Adjust both sides evenly.

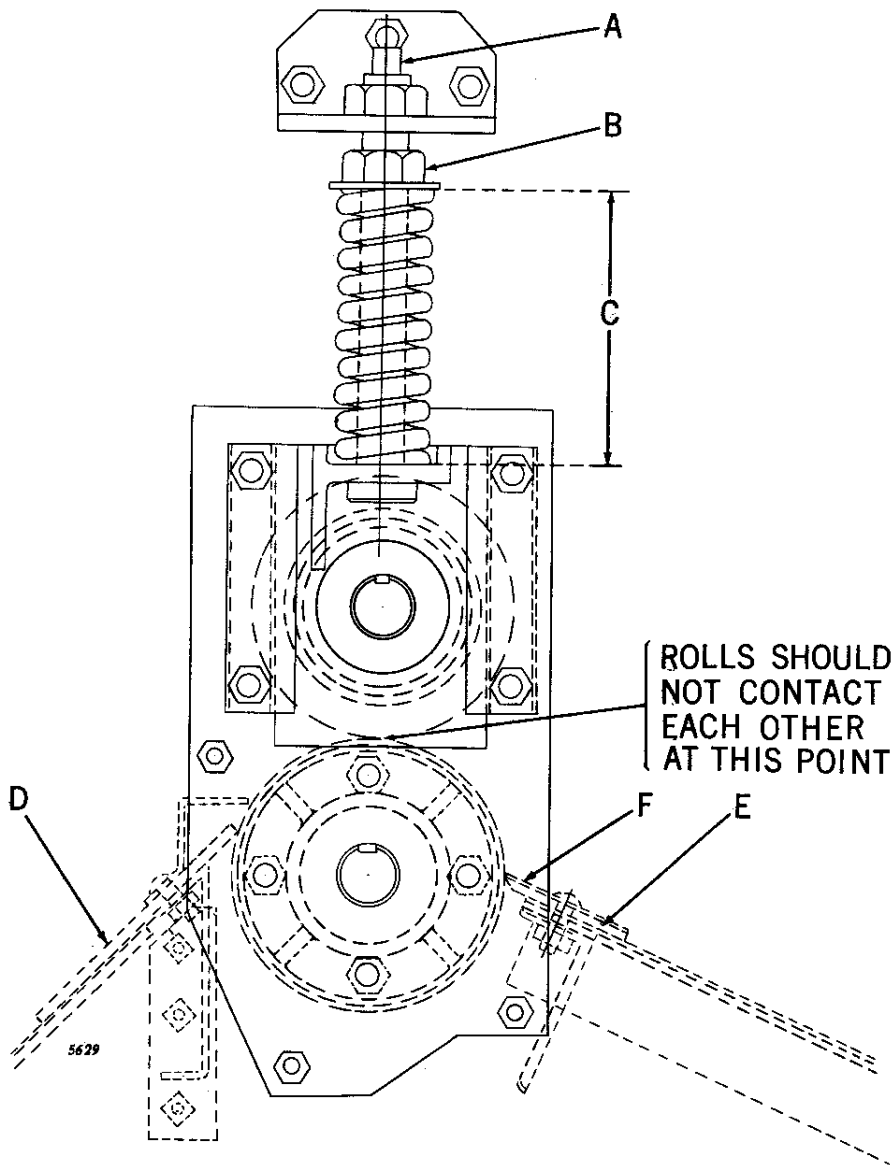


Figure 1

Adjustment of Rear Stripper. Knife stripper "E", Figure 1, should be adjusted forward so it just clears roll. At the same time adjust end plates "F", Figure 1, to completely seal corners. To Adjust: Loosen lock bolts and slide stripper forward. Adjust evenly full length of roll.

DRIVE ROLLER CHAINS

The feed roll drive chains should be kept tight at all times. The upper and lower roll drive chains are adjusted by sliding double sprocket tightener "A," Figure 2, forward. If further adjustment is needed on lower feed roll drive chain, slide tightener sprocket "B", Figure 2, to the rear. Tighten all nuts after adjustments have been made.

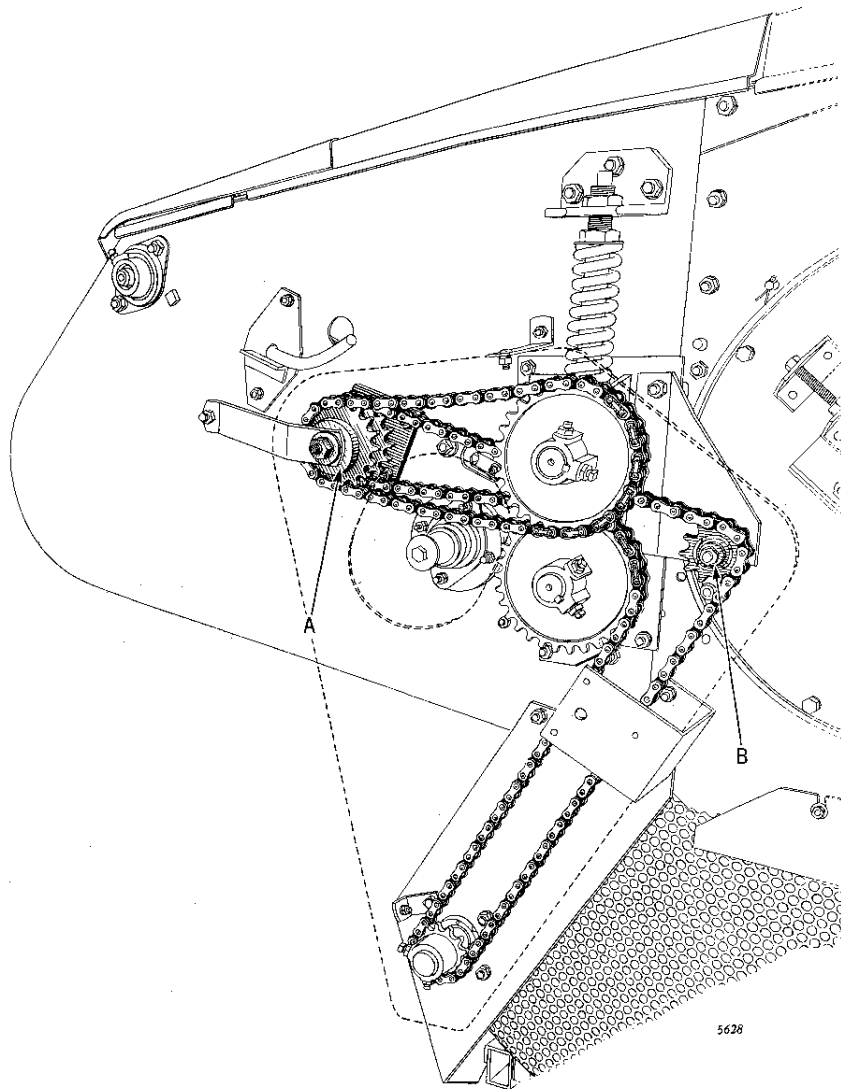


Figure 2

ADJUSTMENTS FOR VARIOUS CROPS

Flax and Radish Seeds

Roll Spacing: $1/64$ " or thickness of ordinary postcard.
Roll Pressure: 5" compression of coil springs on upper roll.
Cylinder Speed: 920 to 940 R.P.M.
Cylinder and Concave Spacing: $3/8$ ".

Because there is very little chaff, it is not necessary to use an excessive amount of fan blast. Replace the $9-5/8$ " fan sheave which comes on the separator with the 10956HH, $11-3/4$ " sheave. This will reduce the speed of the fan from 655 R.P.M. to 536 R.P.M. Tailings will usually be very low. Blast should be placed back as far as possible on cleaning sieve.

A straw rack speed of from 260 to 265 R.P.M. will be sufficient for most conditions.

Clovers, Timothy, and Other Grass Seeds

Roll Spacing: $1/64$ " or thickness of ordinary postcard.
Roll Pressure: 5" compression of coil springs on upper roll.
Cylinder Speed: About 1400 R.P.M.
Cylinder and Concave Spacing: $1/4$ ". Reduce if needed to improve threshing.

Soybeans

Roll Spacing: About $1/8$ " to $3/8$ ".
Roll Pressure: $5-1/4$ " compression of coil springs on upper roll.
Cylinder Speed: 500 R.P.M.
Cylinder and Concave Spacing: About $5/16$ ".

REMARKS: It has been found that when a crop is tough, as after rains or after heavy dew, increasing the spring pressure slightly is very effective in breaking the tough pods.

Edible Beans

Roll Spacing: About $1/8$ " to $3/8$ ".
Roll Pressure: $5-1/4$ " compression of coil springs on upper roll.
Cylinder Speed: 175 to 350 R.P.M.
Cylinder and Concave Spacing: About $5/16$ ".

REMARKS: Great care is necessary in threshing edible beans such as Black-eye, Baby Lima, etc. Cylinder speed and cylinder and concave clearance must be accurately adjusted—spring pressure on rolls must also be carefully adjusted.

Navy or Great Northern variety beans are tough and do not, as a rule damage very easily.

Wheat, Barley Rye and Oats

Roll Spacing: About $1/8$ ".
Roll Pressure: 5" compression of coil springs on upper roll.
Cylinder Speed: About 900 R.P.M.
Cylinder and Concave Spacing: About $3/8$ ".



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SETTING UP SHIPPING PACKAGES

JOHN DEERE No. 12A COMBINE FEED ROLLS ATTACHMENT

- 14541 HH Side Sheet Extensions and Drive Chain Shield
- 11835 HH Rubber and Steel Rolls, Drive Shaft and Front Cover Extension for Cylinder
- 14103 HH Hub with Universal (Serial No. 12-33268 and Up)
- 14116 HH Separator Drive Sheave with Universal (Below Serial No. 12-33268)
- 10956 HH 11-3/4" Slow Speed Fan Sheave

JOHN DEERE No. 12-A COMBINE EQUIPPED WITH FEED ROLLS SERIAL No. 12-81549 AND UP

- 14537 HH Separator with Grain Tank and 6-Ply Tires (Regular)
- 14539 HH Separator with Grain Tank and 8-Ply Tires (Special)
- 14538 HH Separator with Sacking Attachment and 6-Ply Tires (Regular)
- 14540 HH Separator with Sacking Attachment and 8-Ply Tires (Special)
- 14246 HH Tractor Hitch Tubes
- 14244 HH Tractor Hitch Extension
- 14542 HH Platform Bottom

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