


**McCormick
No. 4-E
Enclosed Gear
Tractor Binder
Operator's Manual**

1005625R8

Reprinted






	<p><i>THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.</i></p>
	<p>M171B</p>

If Safety Decals on this machine use the words **Danger, Warning or Caution**, which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation which if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates an potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as   and  if used, are RED.

WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.

Owner's Manual



SETTING UP INSTRUCTIONS

McCORMICK

No. 4-E

**Enclosed Gear
Tractor Binder**

INTERNATIONAL HARVESTER COMPANY

180 North Michigan Ave.

Chicago 1, Illinois, U.S.A.

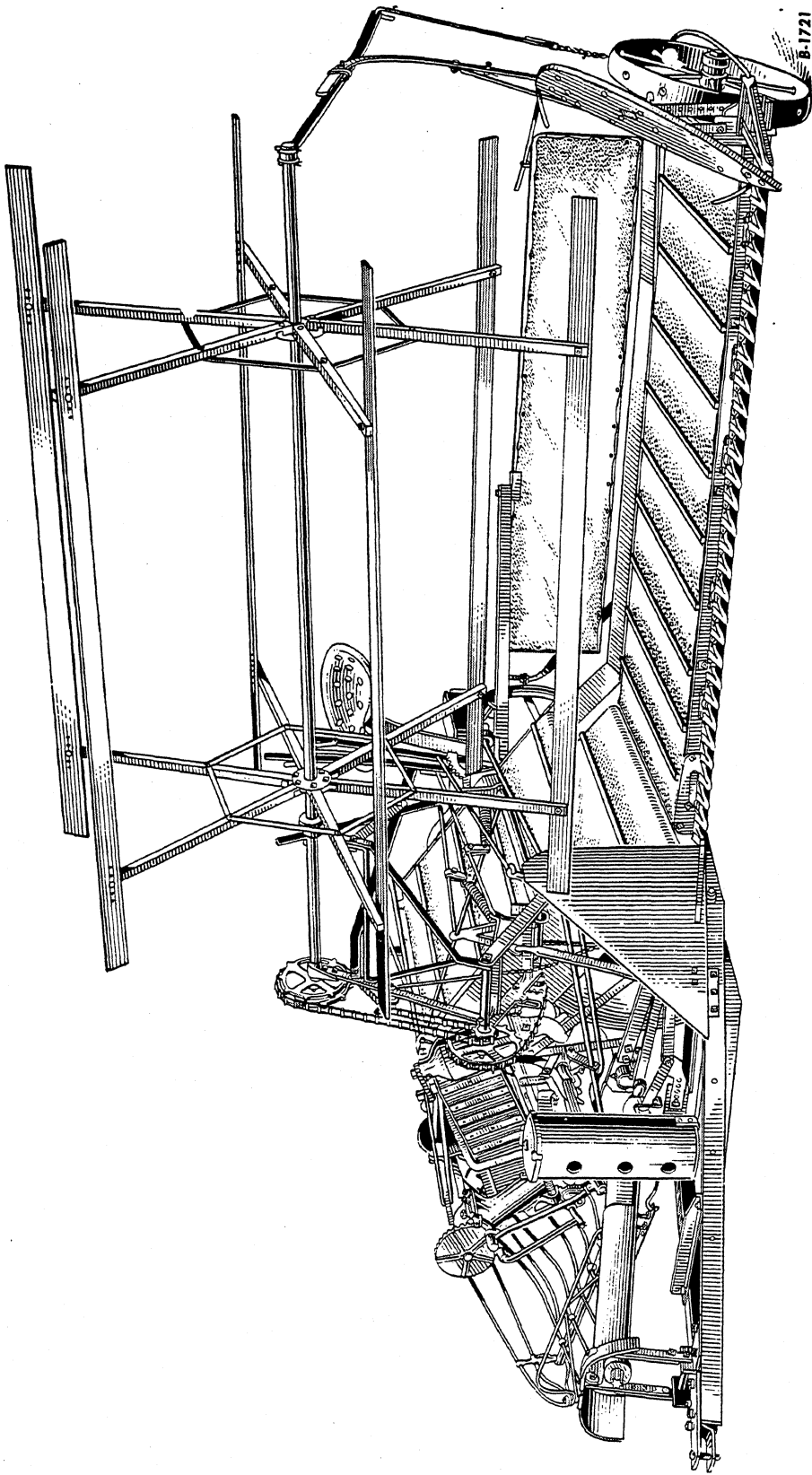
TO THE OWNER

The purpose of this manual is to assist you in realizing the benefits you anticipated when you purchased this International Harvester product. Literally thousands of people have contributed to the design and production of this product and its delivery to you. They have an interest in its successful performance and have provided this manual to give you the benefit of the experience they have gained through years of field testing and normal usage of this and similar products.

The way you operate and the care you give this product will have much to do with its successful performance. This manual has been carefully prepared and the information arranged and illustrated to make it as easy as possible for you to find the information you wish. It will pay you to read the entire manual carefully before operating and keep it handy for future reference. Your International Harvester Dealer will be glad to answer any further questions you may have on the operation or care of this product.

It is the policy of International Harvester Company to improve its products whenever it is possible and practical to do so. We reserve the right to make changes or add improvements at any time without incurring any obligation to make such changes on products sold previously.

All illustrations and descriptive matter in this publication apply to International Harvester products sold under the McCormick, McCormick-International, McCormick-Deering, or McCormick-Deering International trade name.



Front view of No. 4-E Tractor Binder.

CARE AND OPERATION OF YOUR MACHINE

Read the following instructions carefully before operating your binder in the field.

CAUTION: The knotter and the needle are coated with a special rust preventive. Clean thoroughly with any grade of petroleum before operating.

After the machine has been completely set up and all bearings and moving parts thoroughly lubricated, attach the tractor, connecting the power drive at the same time.

Before commencing work in the field, run the binder at slow speed for at least 5 to 10 minutes, noticing particularly if the canvases are running straight and are properly tightened. Stop the machine, examine all bearings and add lubricant wherever necessary, giving special attention to the butt adjuster, packers and packer bearings, bearings for roller gudgeons, pitman, etc. Then run the machine at working speed for at least another 5 to 10 minutes, after which a further careful examination of the bearings and canvases may save trouble through premature wear.

It is also advisable to limber up the tripping mechanism of the binder by tying a piece of twine on the trip hook and tripping the mechanism 30 to 40 times, to insure a free action when starting in the field.

Under no circumstances should a machine be started in the field without a preliminary run according to these instructions.

This binder is designed to operate with a tractor power take-off shaft speed of from 530 to 550 R.P.M.

PNEUMATIC TIRES

Inflation pressure of pneumatic tires should be checked according to the following table:

Main Wheel.....	7.50 x 16 - four ply.....	24 lbs.
Main Wheel.....	7.50 x 16 - six ply.....	36 lbs.
Grain Wheel.....	4.00 x 18 - four ply.....	36 lbs.
Transport Wheel.....	6.00 x 16 - four ply.....	28 lbs.

Tire manufacturers recommend that transport speeds should not exceed 20 miles per hour on this grade of equipment. Excessive speed may result in rapid wear and breakage.

LUBRICATION

Be sure to use only the best lubricant (SAE-160); avoid inferior lubricants as they will absolutely ruin the binder.

To lubricate the under part of the binder, lift the trap door in the binder deck, which will give easy access to all parts.

Lubricate the bearings of every moving part often and well, being sure not one is omitted.

Be very particular and keep the driving shaft, the packers and rollers well lubricated, and never let any part get dry.

If any of the boxes get hot when starting a new machine, frequent lubrication will prevent heating.

The main wheel hub must have a large quantity of lubricant at the start, as it has a chamber where the lubricant is forced in, and the space must be filled. After once filled, the loss only has to be supplied.

LUBRICATION - Continued

All bearings with lubrication fittings should be lubricated twice a day with a good grade of lubricant (SAE-160).

Lubrication fittings are used as follows:

1/8" Straight Fitting

- 1 - Elevator chain tightener.
- 7 - Apron roller boxes.
- 2 - Adjuster.
- 1 - Crankshaft box.
- 1 - Main wheel.
- 2 - Elevator tightener boxes.
- 1 - Reel pinion and sprocket.
- 2 - Reel frame pipe boxes.
- 1 - Intermediate gear stud.
- 19 - Binding attachment.
- 1 - Platform sliding box.
- 3 - Apron roller boxes.
- 1 - Power drive attachment.
- 1 - Pitman box.

1/8" Straight Fitting (Long Body)

- 1 - Binding attachment.

1/8" 67-1/2° Elbow Fitting

- 5 - Binding attachment.
- 1 - Main wheel.
- 1 - Grain wheel.

1/8" Pipe Elbow with Straight Fitting

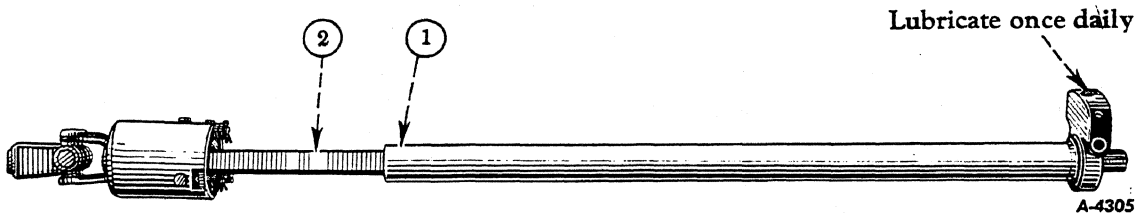
- 1 - Apron roller box.

5/16" Straight Fitting (Long Body)

- 1 - Apron roller box.

The life of any machine depends largely upon it being thoroughly lubricated at frequent intervals.

Keep knotter parts, small roller and face of pinions and cam well lubricated. Keep hook clean of grain and straw. Grease parts well to prevent rust when not in use



Illust. 1

For machines with sliding propeller shaft.

When assembling the telescoping shafts and sleeves, be sure to insert a liberal amount of grease in the end of the sleeve (1). Then freely grease the square shaft (2). Work the shaft in and out of the sleeve so that the sleeve and shaft are well lubricated. Repeat when necessary.

INSTRUCTIONS FOR ADJUSTING AND OPERATING

(Setting Up Instructions are on page 26)

See that your machine is properly set up and adjusted before going into the field.

Be sure that all nuts are tight. Spread all cotters to keep them from falling out.

When the machine is being set up, see that all working parts are thoroughly lubricated. It is best to run a new machine a few minutes before starting into the grain. If compelled to start in the field with a full swath, cut the grain extra high. If the binder misses a few bundles, do not attempt to adjust it in any way without referring to the special instructions.

IMPORTANT: Do not tighten canvases or chains more than necessary to make them run, as the draft is materially increased by having them too tight.

Keep hands and clothing away from all moving parts.

THE USE OF LEVERS

One of the chief difficulties in running the binder is the lack of knowledge of the proper operation of the levers, and as this results frequently in poorly shaped bundles, we cannot emphasize too strongly the necessity of constant lever manipulation in varying conditions of grain. Location of the levers is clearly shown in the illustrations and care should be taken to use them in the manner indicated.

TILTING LEVER

Run the machine nearly level, slightly tilted forward.

Tilt the machine only when you cannot reach the grain otherwise. (For cutting lodged and tangled grain, the machine should be raised at least midway on the side brackets, and the platform tilted down until the guard fingers are close to the ground.)

BINDER LEVER

Shift the binder apparatus so that it will bind in the center of the bundle at all times.

BUTT ADJUSTER LEVER

Do not use the butt adjuster to regulate the length of the bundles. Set it as far forward as possible and leave it there. Only when the grain is extremely short is it necessary to shift the grain to the binder with the butt adjuster. This can be done by drawing the handle of the lever toward the seat, dropping the lever into the notches on the lock when the desired position is reached.

REEL LEVERS

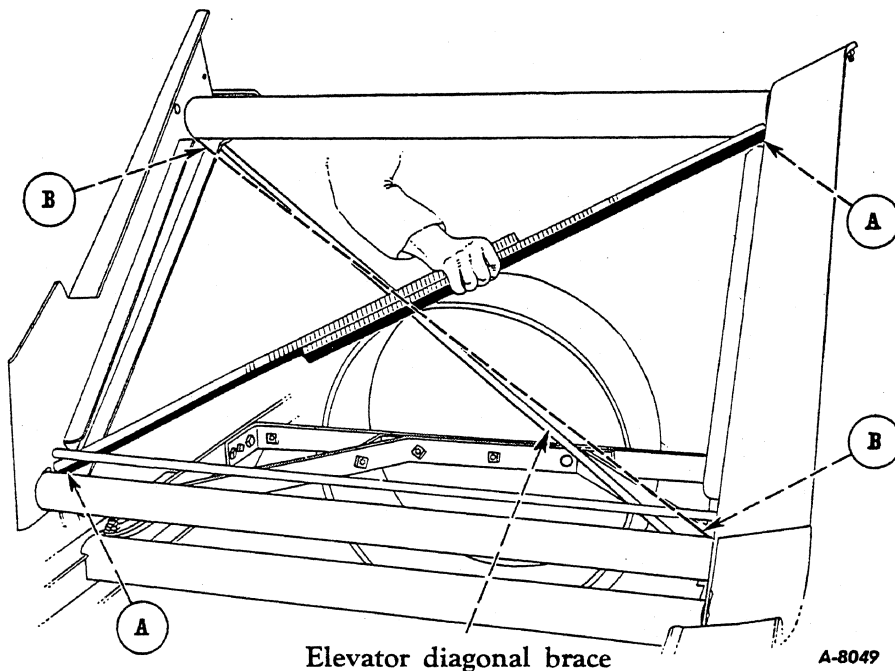
Adjust the levers to run the reel close to the top of the grain and far enough forward so that it does not leave the grain until it is cut.

The perfection of the binding depends largely on the care and skill with which the reel and butt adjuster are used.

SQUARING THE ELEVATORS

Do not attempt to square the elevators until the binder is set up complete with the tilting straps connected to the hitch frame, and the machine is resting on the main and grain wheels in the regular way.

Be sure to square the lower elevator before making any adjustments on the upper elevator.



Illustr. 2

To square the elevators, use two reel arms between two diagonal corners of the elevator as shown in illustration at "A." Grasp the reel arms firmly, or mark them, withdraw and place them as shown by dotted line "B."

If the measurement is the same, the elevator is square. If not square, the elevator should be made so by adjusting the nuts on the diagonal braces.

The upper elevator roller, upper, should be in line with the lower elevator roller, upper. Alignment may be obtained by moving the upper elevator adjustment in the various holes of the upper elevator plate and adjusting the nuts on the upper elevator adjustment.

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