



International Harvester

Operator's Manual
40, 44A & 60

Corn, Beet & Bean
Planters

Operator's Manual

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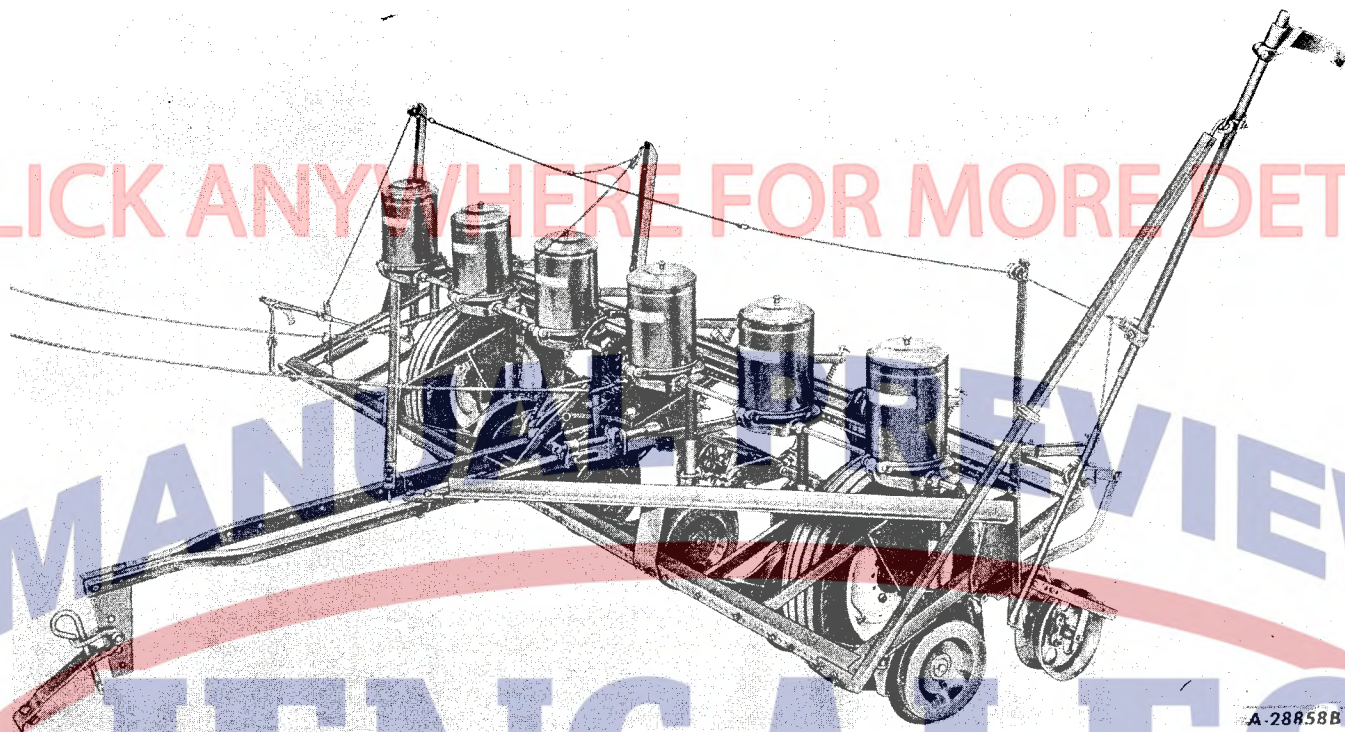


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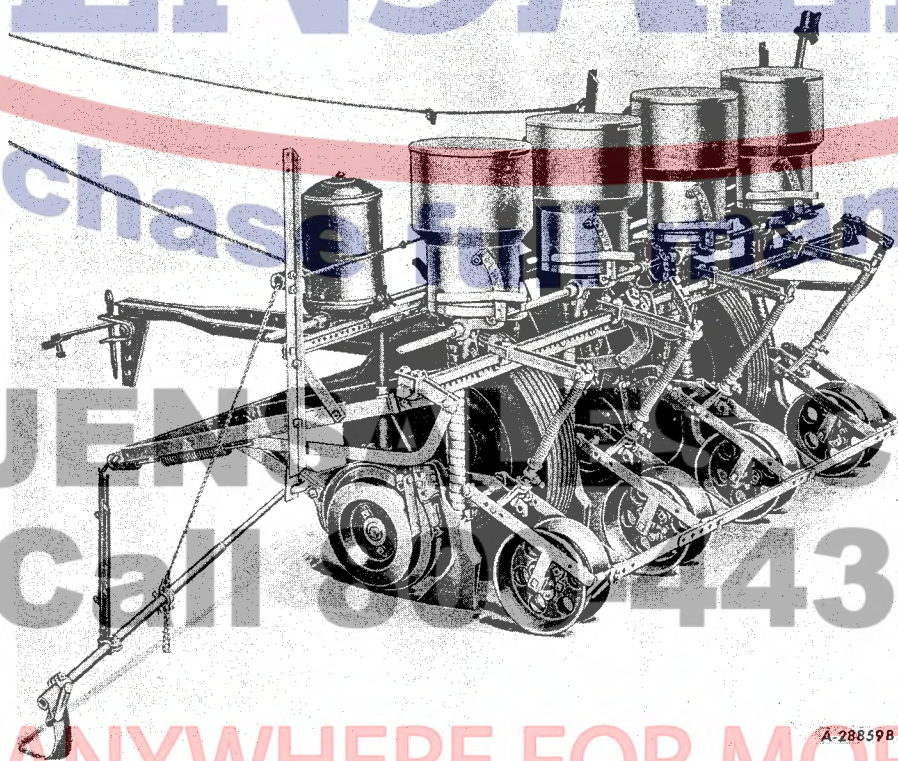
IH-O-40 PLTR+

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A-28858B

Front view of the No. 60 Tractor Beet and Bean Planter.



A-28859B

Rear view of the No. 40 Tractor Beet and Bean Planter
equipped with Runner Opener Type Fertilizer Unit (Special).

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INTRODUCTION

By purchasing a No. 40 or No. 60 Tractor Beet and Bean Planter, or a No. 44A Wide, Four-Row Tractor Corn and Bean Planter, you have selected a product of the world's foremost manufacturer of farm equipment. Years of experience combined with constant research and development have made possible the production of this planter.

The service, life, and satisfaction which you derive from your planter depends, in a large measure, upon the care you give it. We urge you to read carefully and follow the instructions in this manual on the operation, adjustment, and care of the machine.

If you ever need additional information not covered in this manual, see your dealer. He can supply you with the necessary information, or obtain it for you.

Ask your dealer about the Special Equipment and attachments shown in this manual. He can also supply you with genuine replacement parts which are an exact duplicate of the original equipment.

This planter is equipped with hoppers which assure accurate planting of a large variety of seeds, ranging from small tomato seed to large lima beans.

The hoppers are equipped with cut-offs and knockers either for segmented and decorticated beet seed or for beans, corn, whole beet seed, etc., as ordered.

These knock-out pawls are further explained on page 16.

Large capacity seed hoppers are available in place of regular Richmond Type Hoppers.

Three types of hoppers are available for these planters. The large capacity straight-sided hopper (Illustr. 3A), with adapter ring, holds about thirty pounds of seed. The offset hopper (Illustr. 3B), with adapter ring and brace (hopper bracket to front rail), has a capacity of seventy pounds of seed. The Richmond Type Corn Hopper is standard equipment and has a capacity of approximately fifteen pounds of seed.

Illustrations are numbered to correspond with the page number on which they are located. Therefore, if reference is made to Illustr. 3B, for example, you know that the illustration appears on page 3. The letter "B" indicates that it is the second illustration on that particular page.

ADJUSTMENTS FOR ROW SPACINGS

Remove the spacer bars from the furrow openers.

Locate the middle hoppers, furrow openers and lift arms on the rockshaft the correct distance apart for the desired row spacing, locating each unit an equal distance each side of center. Then space the remaining units the desired distance apart each way from the middle units. Relocate the planter wheels. See "ADJUSTMENTS FOR PLANTER WHEEL SPACING".

Relocate the hopper shaft keep and collars midway between the two hoppers on the right end of the planter.

Replace the spacer bars on the furrow openers.

TRACTOR AND PLANTER WHEEL SPACING

Use the chart below to set the Farmall® tractor wheels so that the planter furrow openers will not run in the tractor wheel tracks.

ADJUSTMENTS FOR PLANTER WHEEL SPACING

Jack up the end of the frame so the wheels clear the ground.

Remove the bolts securing the wheel frames to the front and rear rails, and the countershaft bearing plates to the hopper rail. Relocate the wheel frames centrally between the first and second openers from each end of the machine. Replace and tighten the bolts. (On the No. 60 Six-Row Planter, the intermediate rockshaft bearing brackets must be relocated with the wheel frames.)

Also see chart below for tractor and planter wheel spacings.

No. of Rows	Machine Nos.		Row Width	Planter Tread	International Harvester Company Tractors and Treads							
					Farmall A Series § and 100 Series			Farmall C Series and 200 Series		Farmall H Series and 300 Series	Farmall M Series and 400 Series	
					Rear	Adj. Front Axle	Adj. Front Axle & Wheel	Rear	Adj. Front Axle			
4	40		18"	36" or 72"	*40" or *68"	*44"	*40-3/4" or *70"	72"	72"	72"	72"	
4	40		20" or alternate 18"-22"	40" or 80"	40"	*44"	*40-3/4"	80"	80"	80"	80"	
4	40		22" or alternate 18"-26" or 20"-24"	44"	44"	44"	44"	*80"	*80"	44" or †88"	88"	
4	40		24"	48"	48"	48"	48"	*56"	*56"	48" or †96"	*52" or †96"	
4	40	44A 60	26"	52"	52"	52"	52"	*56"	*56"	52" or †*100"	52" or †*100"	
4	40	44A 60	28"	56"	56"	56"	56"	56"	56"	56"	56"	
4	40	44A 60	30"	60"	60"	60"	60"	60"	60"	60"	60"	
4		44A 60	32"	64"	64"	64"	64"	64"	64"	64"	64"	
4		44A 60	34"	68"	68"	*64"	68"	68"	68"	68"	68"	
4		44A 60	36"	72"	*68"	*64"	*70"	72"	72"	72"	72"	
4		44A 60	38"	76"	*68"	*64"	*70"	76"	76"	76"	76"	
4		44A 60	40"	80"	*68"	*64"	*70"	80"	80"	80"	80"	
6		60	18"	72"	*40" or *68"	*44"	*40-3/4" or *70"	72"	72"	72"	72"	
6		60	20" or alternate 18"-22"	80"	40"	*44"	40-3/4"	80"	80"	80"	80"	
6		60	22" or alternate 18"-26" or 20"-24"	88"	44"	44"	44"	*80"	*80"	44" or †88"	88"	
6		60	24"	96"	48"	48"	48"	*56"	*56"	48" or †96"	*52" or †100"	

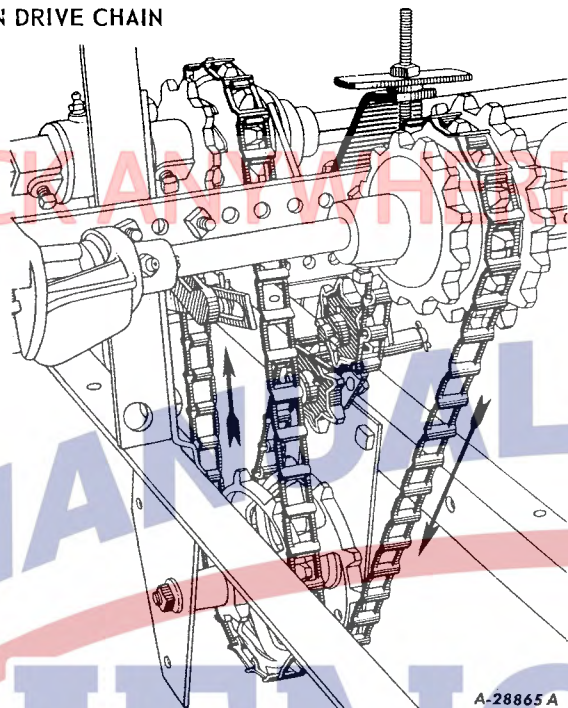
§ Farmall Super A Tractor without adjustable front axle or wheels - front tread is 43".

* Wheels not centered in rows, but possible to use.

† With special 100" rear axle.

For other makes of tractors, set the wheels to best advantage to keep the furrow openers out of the wheel tracks.

GRAIN DRIVE CHAIN



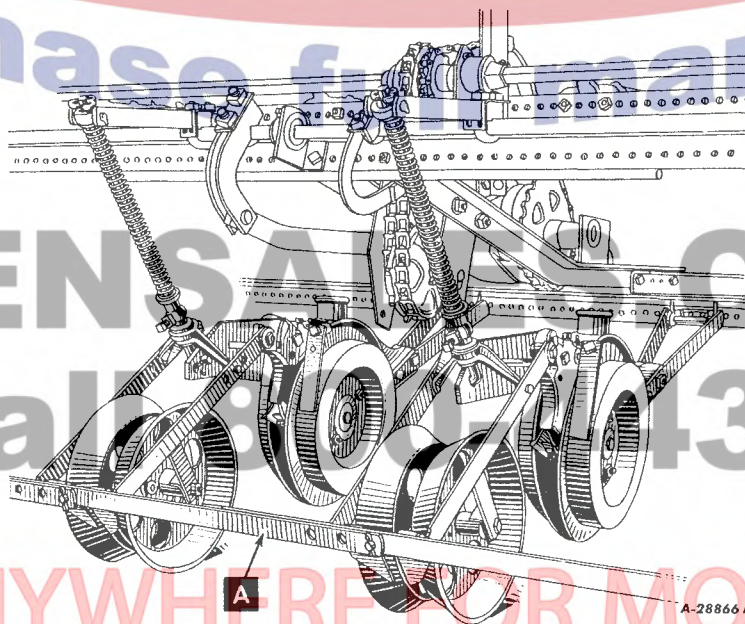
Illust. 8A
Front view at the center of
the drill showing the grain drive.

It is not necessary to remove the chain from the chain tightener sprockets when changing from one grain drive sprocket to another, but if the chain is removed it should be reassembled as shown in Illust. 8A.

PNEUMATIC TIRES

It is recommended that the implement tires be filled 100% with liquid solution to increase the weight of the planter for increased traction.

FURROW OPENERS



Illust. 8B

NOTE: Use only anti-freeze solution recommended by your International Harvester dealer.

To Change Pneumatic Tires

1. Lower the furrow openers.
2. Disconnect the drive chain at the connecting link and remove the chain.
3. Prop up the hitch so that the wheels just clear the ground.
4. Remove the bolts securing the wheel plates to the frame and roll the wheel assembly from under the frame.
5. Remove the tire.

NOTE: It is not necessary to remove the wheel plates from the wheel to change the tire.

6. After the tire has been changed, reverse the above operations to reassemble the wheel in place.

NOTE: Keep the roller bearings and all bearing parts clean.

DEPTH OF PLANTING

Consideration should be given to the depth of planting. Shallower planting is usually better for early season plantings in sections where ample moisture falls on the seed after planting and the weather is chilly and not too favorable for quick seed germination. Just the reverse happens on the later season plantings when the seed bed is dry or is apt to dry out, the weather is warmer and germination temperatures are better. When planting deeper it is advantageous to use a draw-bar pivot extension as described on page 42. This keeps the runner in a more level plane similar to shallow planting and provides for better penetration. Depth of planting is regulated by the press wheel unit (see pages 10, 11, and 12) and the power lift adjustment see page 13).

FURROW OPENERS - Continued

Double Disk Furrow Openers

The following depth bands are available for the double disk furrow openers:

623 707 R11	For planting 3/4" deep.
33 716 AX	For planting 1-1/4" deep.
33 715 AX	For planting 2" deep.
33 714 AX	For planting 2-3/4" deep.

Two depth bands are required for each double disk furrow opener.

A choice of one size depth band is included with the double disk furrow opener.

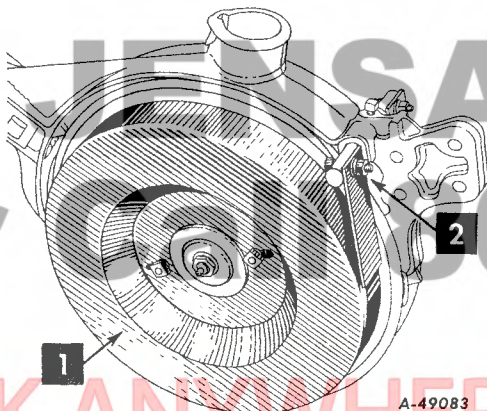
Depth bands not included with furrow openers are available through your International Harvester dealer.

The above list of available depth bands covers most of the variations in depth of planting in different areas.

Additional depths can be secured with the above depth bands by applying more or less pressure on the furrow opener which permits more or less soil to be available for press wheel covering.

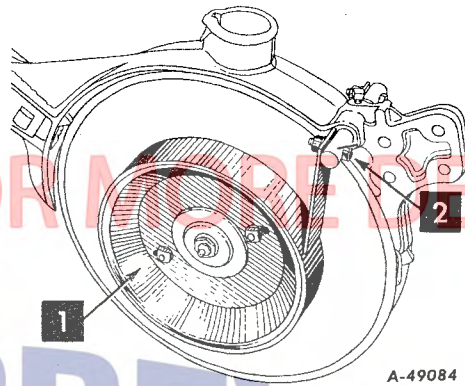
To obtain additional depth, increase the pressure on the furrow opener.

TO CHANGE DEPTH BANDS



Illust. 11A.

Assembly of scraper when large depth band is used.



Illust. 11B

Assembly of scraper when small depth band is used.

1. Loosen the nuts and slide the bolts out of the slotted ears on the disk hub. Lift off the band. Assemble the bolts into the desired band. Place the band on the disk hub and slide the bolts into the slotted ears. Make sure the large center hole in the band is centered and fits over the disk hub. Tighten the bolts securely.

2. Adjust the depth band scrapers.

NOTE: In case the small bands are used, reverse the scraper so that the blade is in front of the pivot. See Illust. 11B.

PRESS WHEELS

See Illusts. 12A, 12B, and 12C.

The press wheel units serve a triple purpose:

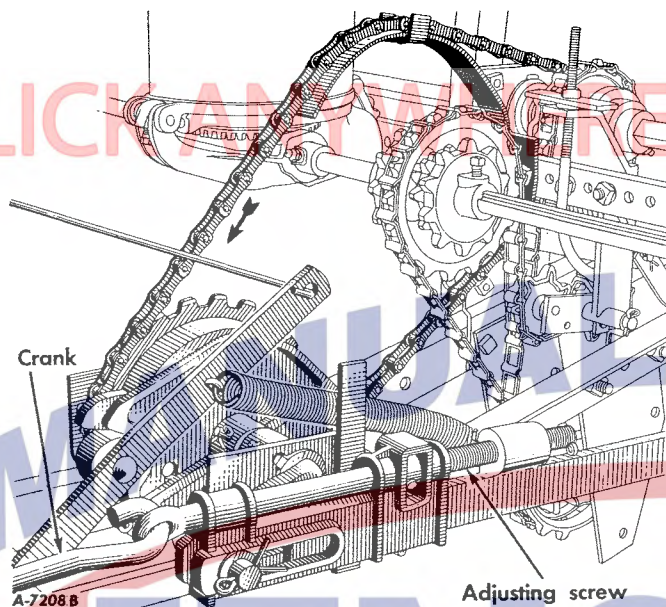
1. They help cover and firm the soil over the seed.

2. They may be adjusted to aid in controlling the depth of planting.

3. The pressure spring provides a means of applying pressure on the furrow openers.

Continued on following page.

MECHANICAL POWER LIFT



Illust. 13A

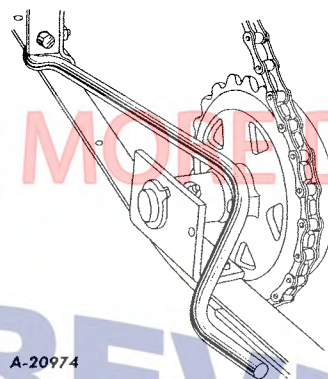
The adjusting screw on the power lift link provides adjustment for pressure on the furrow openers.

With the nut on the screw against the cotter in the threaded end (long link), minimum pressure is obtained.

For maximum pressure, the cotter in the threaded end of the adjusting screw is the farthest away from the nut.

The power lift should be adjusted to suit the soil conditions at the time of planting and to regulate the depth of planting as desired.

NOTE: Always remove the crank from the eye in the screw before operating the planter. When not in use, hook the crank into the hole in the lower end of the center hopper rail standard and hang the handle over the power lift bearing. See Illust. 13B.



A-20974

Illust. 13B

Position of adjusting screw crank when not in use.

REMOTE CONTROL HYDRAULIC CYLINDER ADAPTER (621 925 R92)

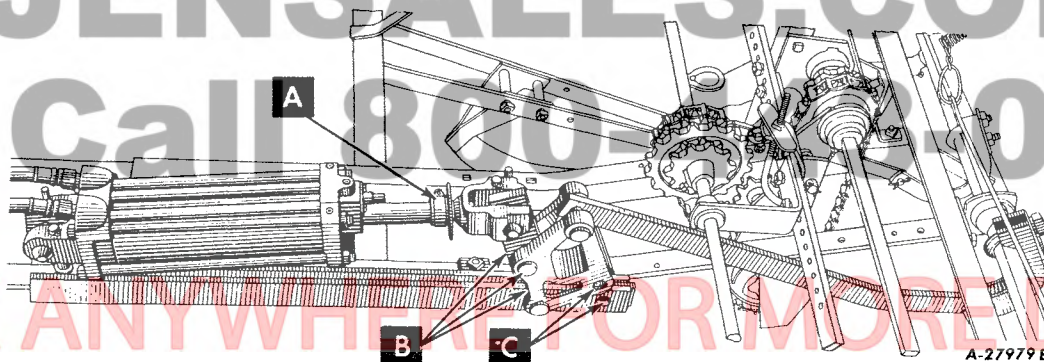
This adapter package provides a means of attaching to the planter the Remote Control Hydraulic Cylinder, or any hydraulic cylinder built to the ASAE standard dimensions, whether furnished with Farmall Tractors or any other tractors.

The Remote Control Attachment provides hydraulic power for lifting, lowering, and adjusting the working depth of the planter furrow openers.

For operating and attaching the remote control to the tractor, see the manual included with the Remote Control Attachment.

Adjust the stop collar on the cylinder piston rod to give the desired depth of planting. See "A" in Illust. 13C. Also see pages 9, 10, 11, and 12 for the effect of depth bands and press wheels on the depth of planting.

Continued on following page.



Illust. 13C
Remote control cylinder.