Double-Row Maize Planting Attachments

JOHN DEERE

OPERATORS MANUAL

Double-Row Maize Planting Attachments

OMA16635 Issue L8 English

John Deere Plow & Planter Works
OMA16635 Issue L8

LITHO IN U.S.A.
ENGLISH

TO THE PURCHASER

Behind your new planting attachment is an organization that has designed and built farm implements for over 125 years. This planting attachment was built in a John Deere factory by experienced men, many who have worked in this large plant for from 10 to 45 years, thus assuring the utmost in good design, high-grade workmanship, and thorough inspection, so essential to the production of good implements.

High-quality materials, precision production methods, and accurately-controlled heat-treating assure maximum strength and long life for every part.

This manual has been carefully prepared and illustrated so you may make the necessary adjustments for adapting your planting attachment to work properly in practically all types of soil and field conditions. These adjustments, such as row spacings, proper penetration, etc., are fully covered in this manual.

Occasionally your planting attachment may need new parts to replace worn parts, or require emergency service not covered in this manual. If so, we suggest that you take advantage of the facilities offered by your John Deere dealer, which assure you of genuine John Deere Parts and prompt "know-how" service in the field or in the shop.

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If you will furnish your dealer with the information which should be recorded at the bottom of this page, when the planting attachment is delivered, he can give you prompt and efficient service.

Study this manual carefully. Keep it handy, in a safe place, for future reference.

Information concerning warranty on this equipment appears on your copy of the Delivery Receipt which you should have received from your dealer when the equipment was delivered to you.

JOHN DEERE PA845, PA865, AND PA885 DOUBLE-ROW MAIZE PLANTING ATTACHMENTS.

JOHN DEERE PA846, PA866, AND PA886 DOUBLE-ROW MAIZE PLANTING ATTACHMENTS.

Planting Attachment No. . . . . .
Date Purchased. . . . . .19. . . . .

(To be filled in by Purchaser)

Price

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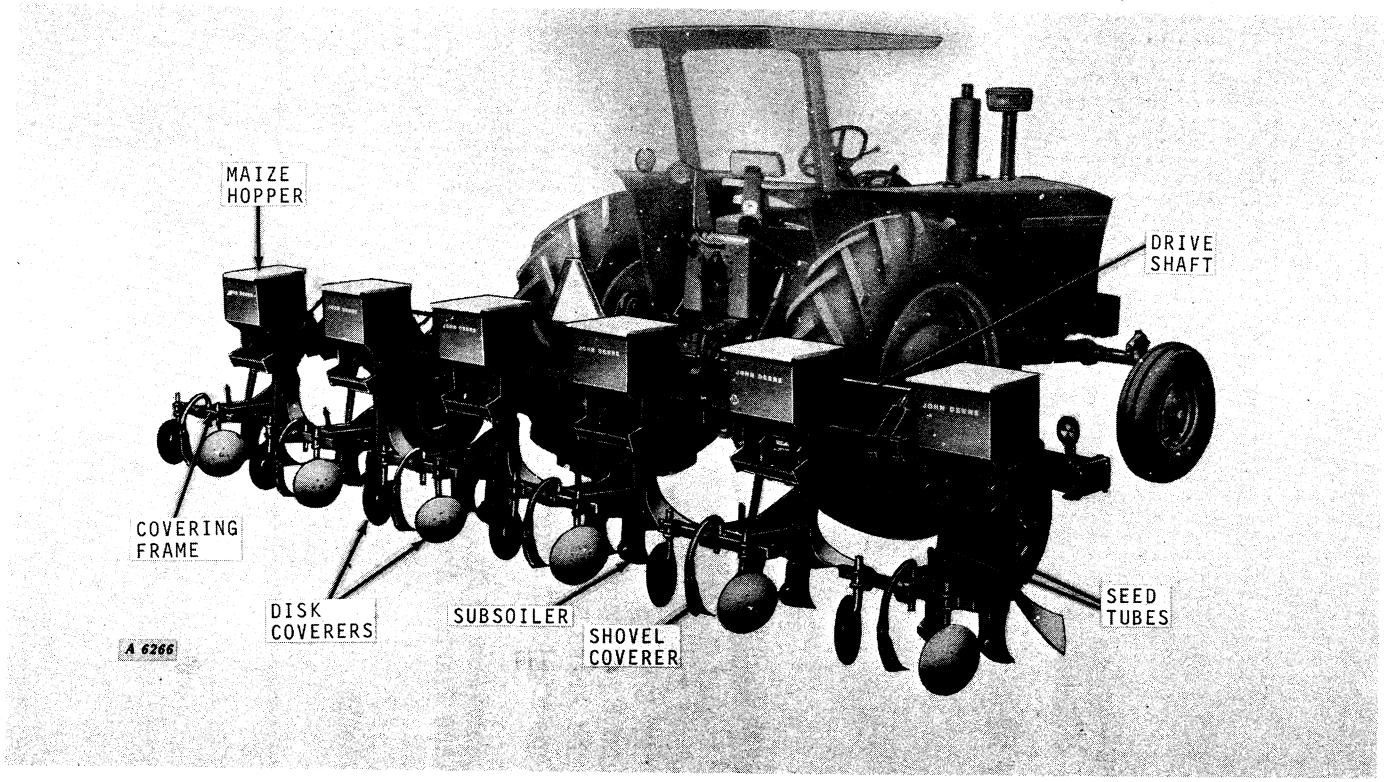


PA865 Planting Attachment on F886 Integral 6-Row Bedder
(Disk Coverers Special Equipment)

SPECIFICATIONS

TYPES	PA845 Double-Row Maize Planting Attachment, 4-Row, with subsoiler openers, for use with bottoms or sweeps. PA865 Double-Row Maize Planting Attachment, 6-Row, with subsoiler openers, for use with bottoms or sweeps. PA885 Double-Row Maize Planting Attachment, 8-Row, with subsoiler openers, for use with bottoms or sweeps. PA846 Double-Row Maize Planting Attachment, 4-Row, with double-disk openers. PA866 Double-Row Maize Planting Attachment, 6-Row, with double-disk openers. PA886 Double-Row Maize Planting Attachment, 8-Row, with double-disk openers.
DRIVE	Gauge Wheel Drive
ROW SPACING	36-, 38-, and 40-Inch Rows
DEPTH CONTROL	Gauge Wheel Controlled
LIFT	Controlled by Tractor Rockshaft Control Lever
PA845, PA865, PA885 Subsoilers	Subsoiler with Reversible Point available on order Subsoiler with Reversible Shovel and Long Boot available on order Subsoiler with Reversible Shovel and Short Boot available on order Subsoiler with Runner available on order
Special Equipment	10- x 1-inch Rubber-Tired Press Wheel, 22-Inch Trash Rods and Sweep, Knife Coverers, Disk Coverers, Shovel Coverers, and 4-Inch Sweep
PA846, PA866, PA886 Special Equipment	Depth Bands

(Specifications and design subject to change without notice.)

NOTE: When the term "right" or "left" is used, it means from a position behind the bedder and planting attachments and facing the front.

OPERATION

GENERAL

The John Deere Double-Row Maize Planting Attachments are designed for double-row planting of maize and other feed crops on prepared beds or in the furrows. The PA845, PA865, and PA885 planting attachments use subsoiler openers, and the PA846, PA866, and PA886 planting attachments use double disk openers.

IMPORTANT! Since the double-row principle places the seed as much as 12 inches apart (6 inches each side of the center of the bed), be sure to maintain uniform row spacing and beds.

Planter sweeps are recommended for sweeping the tops of the beds. The double-disk opener is particularly effective where straw and stubble exist in the bed.

These planting attachments are designed for use with the John Deere F884, F886, and F888 Bedders. The planting attachments are not equipped with beams, standards, bottoms, or sweeps. This equipment is normally furnished with the bedder. If the bedder is not so equipped, these items are required.

The PA845, PA865, and PA885 Series Planting Attachments require beams, standards, and either bottoms or sweeps.

The PA846, PA866, and PA886 Series Planting Attachments require only the beams.

These planting attachments and bedder bar are fully tractor carried when lifted, but ride on gauge wheels when working, giving ample flexibility to follow ground contours.

PREPARING THE BEDDER

Refer to the bedder operator's manual for proper use of lift springs and gauge wheels.

PREPARING AND ADJUSTING THE TRACTOR

For complete tractor operating instructions refer to your tractor operator's manual. Also refer to bedder operator's manual for tractor adjustments.

ADJUSTING SPEED OF ROCKSHAFT DROP

Adjust the valve to give a smooth slow drop of the planting attachments. See your tractor operator's manual for instructions on adjusting the valve.

NOTE: Always lower the planting attachments to working position slow enough so the seed tubes do not become plugged with dirt.

REAR WHEEL SETTING

Set the rear wheels double the desired row spacing of the bedder, measuring from center-to-center of tires.

FRONT WHEEL SETTING (2510, 2520, 3010, 3020, 4010, 4020, 4520, and 5020 Tractors)

On wide-front-end tractors set front wheels to conform to rear wheel setting.

be careful.....
avoid accidents

FRONT END WEIGHTING

Front end stability is necessary for efficient operation and safety. Therefore it is important that weight be added to the front end of the tractor according to the following recommendations.

NOTE: Where "N.R." is shown in the following charts, it means that particular combination is not recommended for that tractor.

TOTAL FRONT WEIGHT REQUIRED FOR TRANSPORT STABILITY

Tractor	F884 4-Row Bedder*	F886 6-Row Bedder*	F888 8-Row Bedder*
2510 Row-Crop:			
Single Front Wheel	500 Lbs.	N.R.	N.R.
Double Front Wheels	500 Lbs.	N.R.	N.R.
Roll-O-Matic	500 Lbs.	N.R.	N.R.
Adjustable Front Axle	200 Lbs.	N.R.	N.R.
2520 Row-Crop:			
Single Front Wheel	500 Lbs.	N.R.	N.R.
Double Front Wheels	500 Lbs.	N.R.	N.R.
Roll-O-Matic	500 Lbs.	N.R.	N.R.
Adjustable Front Axle	200 Lbs.	N.R.	N.R.
3010 Row-Crop:			
Single Front Wheel	500 Lbs.	N.R.	N.R.
Double Front Wheels	500 Lbs.	N.R.	N.R.
Roll-O-Matic	500 Lbs.	N.R.	N.R.
Adjustable Front Axle	200 Lbs.	N.R.	N.R.
3020 Row-Crop:			
Single Front Wheel	400 Lbs.	N.R.	N.R.
Double Front Wheels	400 Lbs.	N.R.	N.R.
Roll-O-Matic	400 Lbs.	N.R.	N.R.
Adjustable Front Axle	200 Lbs.	N.R.	N.R.
3010 Standard:			
Adjustable Front Axle	400 Lbs.	N.R.	N.R.
3020 Standard:			
Adjustable Front Axle	200 Lbs.	N.R.	N.R.
3010 Row-Crop Utility:			
Adjustable Front Axle	400 Lbs.	N.R.	N.R.
3020 Row-Crop Utility:			
Adjustable Front Axle	300 Lbs.	N.R.	N.R.

**With Quik-Coupler. When used less Coupler, remove 200 pounds from weight shown in chart.*

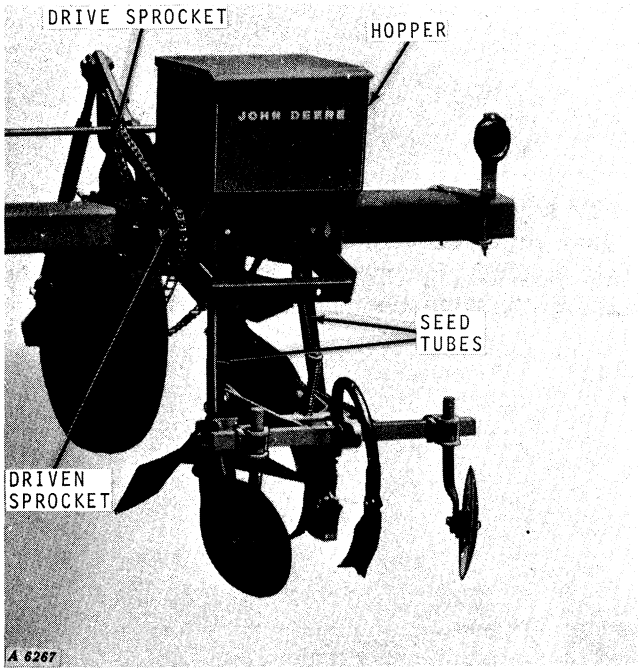
FRONT END WEIGHTING—Continued

Tractor	F884 4-Row Bedder*	F886 6-Row Bedder*	F888 8-Row Bedder*
4010 Row-Crop:			
Single Front Wheel	150 Lbs.	800 Lbs.	N.R.
Roll-O-Matic	150 Lbs.	800 Lbs.	N.R.
Adjustable Front Axle	0	600 Lbs.	N.R.
4020 Row-Crop:			
Single Front Wheel	0	600 Lbs.	1000 Lbs.
Roll-O-Matic	0	600 Lbs.	1000 Lbs.
Adjustable Front Axle	0	400 Lbs.	800 Lbs.
4010 Standard:			
Adjustable Front Axle	0	400 Lbs.	N.R.
4020 Standard:			
Adjustable Front Axle	0	200 Lbs.	700 Lbs.
4520 Row-Crop:			
Adjustable Front Axle	0	0	400 Lbs.
5010 Standard:	0	0	200 Lbs.
5020 Standard:	0	0	100 Lbs.
5020 Row-Crop:	0	0	100 Lbs.

**With Quik-Coupler. When used less Coupler, remove 200 pounds from weight shown in chart.*

PREPARING PLANTING ATTACHMENT

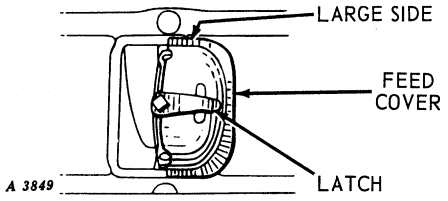
MAIZE SEED HOPPER



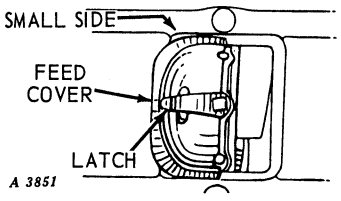
The hoppers have a one bushel capacity. There are two openings to serve the double-row openers and provide wide-range feeds. These feeds efficiently handle many feed grains in addition to milo maize.

FEED COVERS

The feed covers are used to cover either the small or large side of the feed wheel.



Cover large side of feed wheel when using small side as illustrated above.

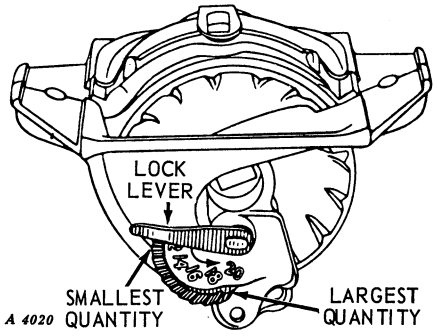


Cover small side of feed wheel when using large side as illustrated above.

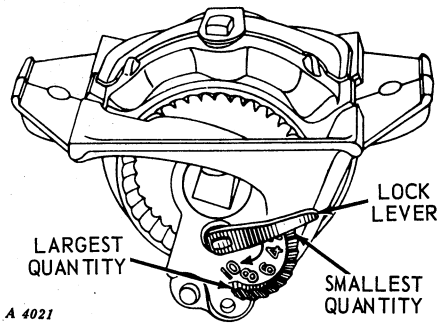
To change the cover from one side of the feed wheel to the other side, loosen latch nut and pivot latch away from cover. Lift off feed covers and reassemble on opposite side of feed wheel opening. Tighten latch nut.

FEED GATES

A lock lever on each side of the feed wheel regulates a gate inside the feed. Each gate can be adjusted for 10 different rates of seeding. Set all gates for the same rate of seeding. See charts on pages 9 through 12.



Large Side of Feed Wheel



Small Side of Feed Wheel

Use the large side of the feed wheel for large quantities of seed and the small side for small quantities of seed. See illustrations above.

IMPORTANT: The lock levers must be in the same position on all feed cups to insure uniform metering of grain from each feed.

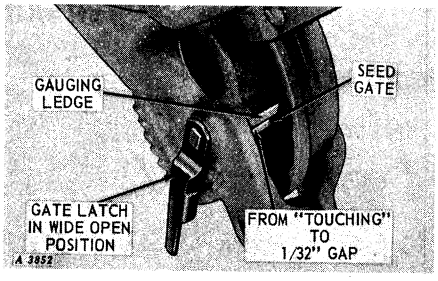
Cleaning Feeds

To clean feeds, adjust feed gates to No. 10 on small side and No. 20 on large side of feed wheel, disengage drive gears and revolve feed shafts with wrench. If feed shafts are tight, saturate feeds with diesel fuel.

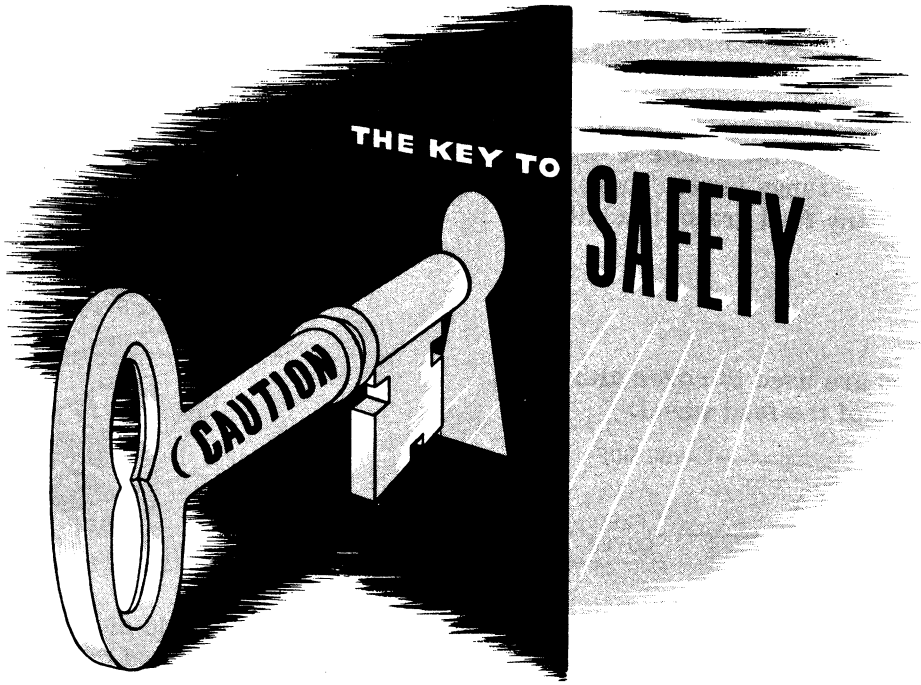
IMPORTANT: Be sure all diesel fuel is removed before planting next crop.

Checking Seed Gate Opening

To check the accuracy of the seed gate opening with the notches on the feed cup, move the latch to the wide-open setting. The seed gate should touch the gauging ledge or be within 1/32 inch of the ledge.



To adjust the seed gate opening, insert screw driver or other tool under seed gate to hold tight against the gauging ledge and bend ga latch to the wide-open notch or position.



SEED PLANTING PLATES

The following charts give pounds of seed that may be sowed per each hopper per acre for 36-, 38-, or 40-inch rows by using different lock lever positions and sprocket combinations.

PLANTING RATES FOR DOUBLE-ROW MAIZE
PA845, PA865, PA885 Planting Attachments with 5.90-15 Gauge Wheel Tires

Row Width	Driving Gauge Wheel Sprocket	Driven Drive-shaft Sprocket	Driving Drive-shaft Sprocket	Driven Hopper Sprocket	Hopper Shaft Rev. per Acre	Position of Lock Lever				
						6	7	8	9	10
						Pounds per Acre				
40	6	8	7	24	411	6.3	8.4	10.3	12.3	14.1
40	6	10	7	24	329	5.1	6.7	8.2	9.9	11.3
40	6	12	7	24	274	4.2	5.6	6.8	8.2	9.4
40	12	12	7	24	548	8.4	11.2	13.7	16.4	18.9
38	6	8	7	24	433	6.7	8.8	10.8	13.0	14.9
38	6	10	7	24	346	5.3	7.1	8.7	10.4	11.9
38	6	12	7	24	288	4.4	5.9	7.2	8.6	9.9
38	12	12	7	24	576	8.9	11.8	14.4	17.3	19.8
36	6	8	7	24	457	7.0	9.3	11.4	13.7	15.7
36	6	10	7	24	365	5.6	7.4	9.1	11.0	12.6
36	6	12	7	24	305	4.7	6.2	7.6	9.2	10.5
36	12	12	7	24	610	9.4	12.4	15.0	18.3	21.0

PLANTING RATES FOR DOUBLE-ROW MAIZE
PA846, PA866, PA886 Planting Attachments with 5.90-15 Gauge Wheel Tires

Row Width	Driving Gauge Wheel Sprocket	Driven Drive-shaft Sprocket	Driving Drive-shaft Sprocket	Driven Hopper Sprocket	Hopper Shaft Rev. per Acre	Position of Lock Lever on Seed Feeds				
						6	7	8	9	10
						Pounds per Acre Using Both Feeds				
40	6	8	7	30	329	5.1	6.7	8.2	9.9	11.8
40	6	10	7	30	263	4.1	5.4	6.6	7.9	9.0
40	6	12	7	30	219	3.4	4.5	5.5	6.6	7.5
40	12	12	7	30	438	6.8	8.9	10.9	13.2	15.1
38	6	8	7	30	346	5.3	7.1	8.7	10.4	11.9
38	6	10	7	30	277	4.3	5.7	6.9	8.3	9.5
38	6	12	7	30	231	3.6	4.7	5.8	7.0	8.0
38	12	12	7	30	462	7.1	9.4	11.5	13.9	15.9
36	6	8	7	30	365	5.6	7.4	9.1	11.0	12.6
36	6	10	7	30	292	4.5	6.0	7.3	8.8	10.1
36	6	12	7	30	243	3.7	5.0	6.1	7.3	8.4
36	12	12	7	30	486	7.5	9.9	12.2	14.6	16.7

PLANTING RATES FOR DOUBLE-ROW SOYBEANS
PA845, PA865, and PA885 Planting Attachments with 5.90-15 Gauge Wheel Tires

Row Width	Driving Gauge Wheel Sprocket	Driven Drive-shaft Sprocket	Driving Drive-shaft Sprocket	Driven Hopper Sprocket	Hopper Shaft Rev. per Acre	Position of Lock Lever on Seed Feeds									
						11	12	13	14	15	16	17	18	19	20
						Pounds per Acre Using Both Feeds									
40	12	12	7	24	548	22.8	26.6	30.5	35.6	42.4	46.6	53.6	58.6	64.3	65.9
40	12	10	7	24	659	27.4	32.0	36.6	42.8	51.0	56.0	64.5	70.5	77.4	79.2
40	12	8	7	24	824	34.3	40.1	45.8	53.6	63.8	70.0	80.6	88.2	96.7	99.0
40	12	6	7	24	1,095	45.6	53.2	60.9	71.2	84.8	93.1	107.1	117.2	128.6	131.6
38	12	12	7	24	578	24.0	28.1	32.1	37.6	44.7	49.1	56.5	61.9	67.9	69.5
38	12	10	7	24	693	28.8	33.7	38.5	45.0	53.6	58.9	67.8	74.2	81.4	83.3
38	12	8	7	24	866	36.0	42.1	48.1	56.3	67.0	73.6	84.7	92.7	101.7	104.1
38	12	6	7	24	1,155	48.0	56.1	64.2	75.1	89.4	98.2	113.0	123.6	135.6	138.8
36	12	12	7	24	608	25.3	29.5	33.8	39.5	47.1	51.7	59.5	65.1	71.4	73.1
36	12	10	7	24	729	30.3	35.4	40.5	47.4	56.4	62.0	71.3	78.0	85.6	87.6
36	12	8	7	24	911	38.0	44.3	50.7	54.2	70.5	77.4	89.1	97.5	107.0	109.5
36	12	6	7	24	1,215	50.5	59.0	67.6	79.0	94.0	103.3	118.8	130.0	142.6	146.0

PLANTING RATES FOR DOUBLE-ROW SOYBEANS
PA846, PA866, and PA886 Planting Attachments with 5.90-15 Gauge Wheel Tires

Row Width	Driving Gauge Wheel Sprocket	Driven Drive-shaft Sprocket	Driving Drive-shaft Sprocket	Driven Hopper Sprocket	Hopper Shaft Rev. per Acre	Position of Lock Lever on Seed Feeds									
						11	12	13	14	15	16	17	18	19	20
						Pounds per Acre Using Both Feeds									
40	12	12	7	30	439	18.3	21.3	24.4	28.5	34.0	37.3	42.9	47.0	51.5	52.8
40	12	10	7	30	527	21.9	25.6	29.3	34.3	40.8	44.8	51.5	56.4	61.9	63.3
40	12	8	7	30	659	27.4	32.0	36.6	42.8	51.0	56.0	64.5	70.5	77.4	79.2
40	12	6	7	30	876	36.4	42.6	48.7	56.9	67.8	74.5	85.7	93.7	102.8	105.3
38	12	12	7	30	462	19.2	22.5	25.7	30.0	35.8	39.3	45.2	49.4	54.2	55.5
38	12	10	7	30	554	23.0	26.9	30.8	36.0	42.9	47.1	54.2	59.3	65.0	66.6
38	12	8	7	30	693	28.8	33.7	38.5	45.0	53.6	58.9	67.8	74.2	81.4	83.3
38	12	6	7	30	924	38.4	44.9	51.4	60.1	71.5	78.5	90.4	98.9	108.5	111.1
36	12	12	7	30	486	20.2	23.6	27.0	31.6	37.6	41.3	47.5	52.0	57.1	58.4
36	12	10	7	30	583	24.3	28.3	32.4	37.9	45.1	49.6	57.0	62.4	68.4	70.1
36	12	8	7	30	729	30.3	35.4	40.5	47.4	56.4	62.0	71.3	78.0	85.6	87.6
36	12	6	7	30	972	40.4	47.2	54.0	63.2	75.2	82.7	95.1	104.0	114.1	116.8

PLANTING RATES FOR SINGLE-ROW ACID-DELINTED COTTON SEED
PA845, PA865, and PA885 Planting Attachments with 5.90-15 Gauge Wheel Tires

Row Width	Driving Gauge Wheel Sprocket	Driven Drive-shaft Sprocket	Driving Drive-shaft Sprocket	Driven Hopper Sprocket	Hopper Shaft Rev. per Acre	Position of Lock Lever on Seed Feed									
						11	12	13	14	15	16	17	18	19	20
						Pounds per Acre									
40	6	12	7	24	274	5.5	5.7	6.0	6.4	7.1	8.1	9.2	10.3	11.3	12.3
40	6	10	7	24	329	6.6	6.8	7.2	7.7	8.5	9.8	11.1	12.3	13.6	14.9
40	6	8	7	24	411	8.2	8.5	9.0	9.6	10.6	12.2	13.8	15.4	17.0	18.6
40	12	12	7	24	547	10.9	11.3	12.0	12.7	14.1	16.3	18.4	20.5	22.6	24.7
40	12	10	7	24	659	13.2	13.6	14.4	15.4	17.0	19.6	22.1	24.7	27.3	29.8
40	12	8	7	24	822	16.4	17.0	18.0	19.2	21.2	24.4	27.6	30.8	34.0	37.2
40	12	6	7	24	1,097	21.9	22.7	24.0	25.6	28.3	32.6	36.9	41.1	45.4	49.6
38	6	12	7	24	289	5.8	6.0	6.3	6.7	7.5	8.6	9.7	10.8	12.0	13.1
38	6	10	7	24	346	6.9	7.2	7.6	8.1	8.9	10.3	11.6	13.0	14.3	15.6
38	6	8	7	24	432	8.6	8.9	9.5	10.1	11.1	12.8	14.5	16.2	17.9	19.5
38	12	12	7	24	579	11.6	12.0	12.7	13.5	14.9	17.2	19.5	21.7	24.0	26.2
38	12	10	7	24	694	13.9	14.4	15.2	16.2	17.9	20.6	23.3	26.0	28.7	31.4
38	12	8	7	24	869	17.4	18.0	19.0	20.2	22.4	25.8	29.2	32.6	36.0	39.3
38	12	6	7	24	1,160	23.2	24.0	25.4	27.0	30.0	34.5	39.0	43:5	48.0	52.4

PLANTING RATES FOR SINGLE-ROW ACID-DELINTED COTTON SEED
PA846, PA866, and PA886 Planting Attachments with 5.90-15 Gauge Wheel Tires

Row Width	Driving Gauge Wheel Sprocket	Driven Drive-shaft Sprocket	Driving Drive-shaft Sprocket	Driven Hopper Sprocket	Hopper Shaft Rev. per Acre	Position of Lock Lever on Seed Feed									
						11	12	13	14	15	16	17	18	19	20
						Pounds per Acre									
40	6	12	7	30	219	4.4	4.5	4.8	5.1	5.7	6.5	7.4	8.2	9.1	9.9
40	6	10	7	30	263	5.3	5.4	5.8	6.1	6.8	7.8	8.8	9.9	10.9	11.9
40	6	8	7	30	329	6.6	6.8	7.2	7.7	8.5	9.8	11.1	12.3	13.6	14.9
40	12	12	7	30	438	8.8	9.1	9.6	10.2	11.3	13.0	14.7	16.4	18.1	19.8
40	12	10	7	30	527	10.5	10.9	11.5	12.3	13.6	15.7	17.7	19.8	21.8	23.8
40	12	8	7	30	658	13.2	13.6	14.4	15.3	17.0	19.5	22.1	24.7	27.2	29.7
40	12	6	7	30	878	17.6	18.2	19.2	20.5	22.7	26.1	29.5	32.9	36.3	39.7
38	6	12	7	30	231	4.6	4.8	5.1	5.4	6.0	6.9	7.8	8.7	9.6	10.4
38	6	10	7	30	277	5.5	5.7	6.1	6.5	7.1	8.2	9.3	10.4	11.5	12.5
38	6	8	7	30	346	6.9	7.2	7.6	8.1	8.9	10.3	11.6	13.0	14.3	15.6
38	12	12	7	30	463	9.3	9.6	10.1	10.8	11.9	13.8	15.6	17.4	19.2	20.9
38	12	10	7	30	555	11.1	11.5	12.2	12.9	14.3	16.5	18.6	20.8	23.0	25.1
38	12	8	7	30	695	13.9	14.4	15.2	16.2	17.9	20.6	23.4	26.1	28.8	31.4
38	12	6	7	30	928	18.6	19.2	20.3	21.6	23.9	27.6	31.2	34.8	38.4	41.9

PLANTING RATES FOR SINGLE-ROW MAIZE
PA845, PA865, PA885 Planting Attachments with 5.90-15 Gauge Wheel Tires

Row Width	Driving Gauge Wheel Sprocket	Driven Drive-shaft Sprocket	Driving Drive-shaft Sprocket	Driven Hopper Sprocket	Hopper Shaft Rev. per Acre	Position of Lock Lever 6	7	8	9	10
						Pounds per Acre				
40	6	12	7	24	274	2.1	2.8	3.4	4.1	4.7
40	6	10	7	24	329	2.5	3.3	4.1	4.9	5.6
40	6	8	7	24	411	3.2	4.2	5.1	6.2	7.1
40	12	12	7	24	548	4.2	5.6	6.8	8.2	9.4
40	12	10	7	24	658	5.1	6.7	8.2	9.9	11.3
40	12	8	7	24	823	6.3	8.4	10.3	12.3	14.1
40	12	6	7	24	1,095	8.4	11.2	13.7	16.4	18.8
38	6	12	7	24	288	2.2	2.9	3.6	4.3	5.0
38	6	10	7	24	346	2.7	3.5	4.3	5.2	5.9
38	6	8	7	24	433	3.3	4.4	5.4	6.5	7.4
38	12	12	7	24	578	4.4	5.9	7.2	8.6	10.0
38	12	10	7	24	695	5.3	7.1	8.6	10.4	11.9
38	12	8	7	24	870	6.7	8.8	10.8	13.0	14.9
38	12	6	7	24	1,158	8.9	11.8	14.4	17.3	19.8
36	6	12	7	24	305	2.4	3.1	3.9	4.6	5.2
36	6	10	7	24	365	2.8	3.7	4.6	5.5	6.3
36	6	8	7	24	457	3.5	4.7	5.7	6.9	7.9
36	12	12	7	24	610	4.7	6.2	7.6	9.2	10.5
36	12	10	7	24	732	5.6	7.5	9.2	11.0	12.6
36	12	8	7	24	915	7.1	9.3	11.4	13.7	15.7
36	12	6	7	24	1,220	9.4	12.4	15.3	18.3	21.0

PLANTING RATES FOR SINGLE-ROW MAIZE
PA846, PA866, and PA886 Planting Attachments with 5.90-15 Gauge Wheel Tires

Row Width	Driving Gauge Wheel Sprocket	Driven Drive-shaft Sprocket	Driving Drive-shaft Sprocket	Driven Hopper Sprocket	Hopper Shaft Rev. per Acre	Position of Lock Lever 6	7	8	9	10
						Pounds per Acre				
40	6	12	7	30	219	1.7	2.2	2.7	3.3	3.8
40	6	10	7	30	263	2.0	2.7	3.3	4.0	4.5
40	6	8	7	30	329	2.5	3.3	4.1	4.9	5.6
40	12	12	7	30	438	3.4	4.5	5.5	6.6	7.6
40	12	10	7	30	527	4.1	5.4	6.6	7.9	9.1
40	12	8	7	30	658	5.1	6.7	8.2	9.9	11.3
40	12	6	7	30	878	6.8	9.0	11.0	13.2	15.1
38	6	12	7	30	231	1.8	2.4	3.0	3.5	4.0
38	6	10	7	30	277	2.1	2.8	3.5	4.2	4.8
38	6	8	7	30	346	2.7	3.5	4.3	5.2	5.9
38	12	12	7	30	463	3.6	4.7	5.8	7.0	8.0
38	12	10	7	30	555	4.3	5.7	7.0	8.3	9.6
38	12	8	7	30	695	5.3	2.1	8.6	10.4	11.9
38	12	6	7	30	928	7.1	9.5	11.6	13.9	16.0
36	6	12	7	30	243	1.9	2.5	3.0	3.6	4.2
36	6	10	7	30	292	2.3	3.0	3.7	4.4	5.0
36	6	8	7	30	365	2.8	3.7	4.6	5.5	6.3
36	12	12	7	30	488	3.8	5.0	6.1	7.3	8.4
36	12	10	7	30	586	4.5	6.0	7.3	8.8	10.1
36	12	8	7	30	724	5.6	7.4	9.1	10.4	12.5
36	12	6	7	30	976	7.5	10.0	12.2	14.6	16.8

CHECKING SEED PLANTING RATES

Use the following procedure to check the rate of seed application per acre.

Fill one seed hopper with type of seed being used. Note the lock lever settings. Turn feed shaft on the hopper 100 revolutions. Catch seed and weigh.

Multiply the weight of the seed by the hopper shaft revolutions per acre as shown in the seed planting rate charts. Divide by 100 to obtain pounds per acre.

NOTE: To insure against seed cracking, always set the lock lever as high as possible to utilize the proper sprocket ratios for seed regulation.

The planting attachment may be converted from double to single-row planting. See page 21 for instructions.

The following examples are for 30-tooth driven hopper sprockets.

DOUBLE ROW

Example: typical soybeans.

Seed sample taken weighed 12.00 pounds.

$$\frac{12.00 \times 439}{100} = 52.7 \text{ pounds per acre}$$

SINGLE ROW

Example: typical maize.

Seed sample taken weighed 1.72 pounds.

$$\frac{1.72 \times 219}{100} = 3.77 \text{ pounds per acre}$$

RAISING AND LOWERING

Use the tractor rockshaft control lever to raise or lower the planting attachments.

When the bedder is equipped with gauge wheels, position the rockshaft control lever when planting to release hydraulic pressure from the rockshaft. This will allow the rockshaft to vary its up and down position automatically as the planting attachment follows ground contours.

NOTE: When operating in the field, lower the planting attachment only when the tractor is moving forward. This will prevent the seed tubes from clogging in most soil conditions.

ADJUSTING ROW WIDTH

These planting attachments are adjustable for 36-, 38-, and 40-inch row spacings.

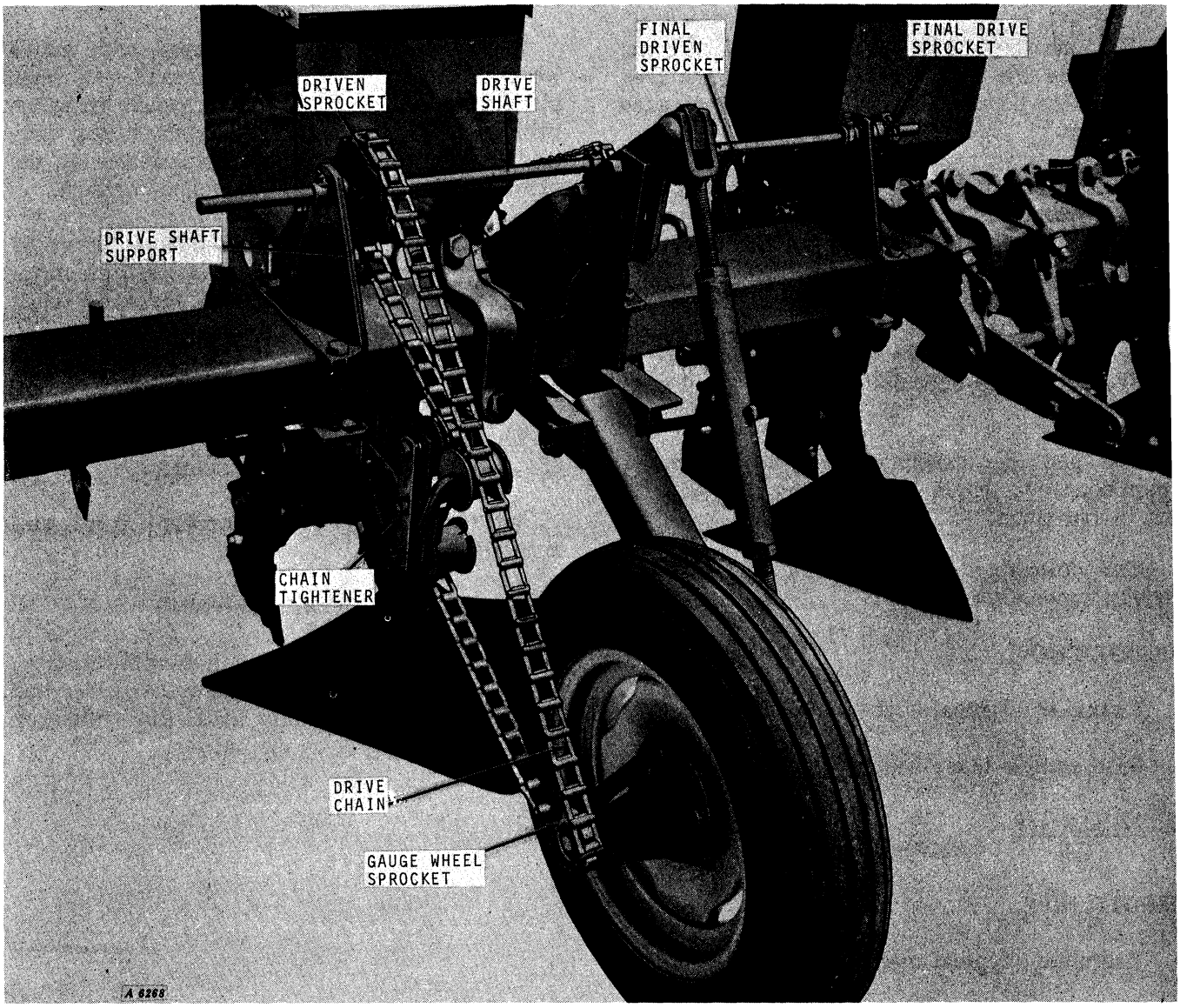
Set tractor wheels to conform to the row spacing.

DEPTH OF PLANTING

Depth of planting is controlled by the position of the bedder bar. The position of the bedder bar is regulated by the tractor hydraulic system or by the gauge wheels on the bedder.

GAUGE WHEEL DRIVE

F884 BEDDER



F884 Bedder with PA845 Planting Attachment (Right-Side Illustrated)

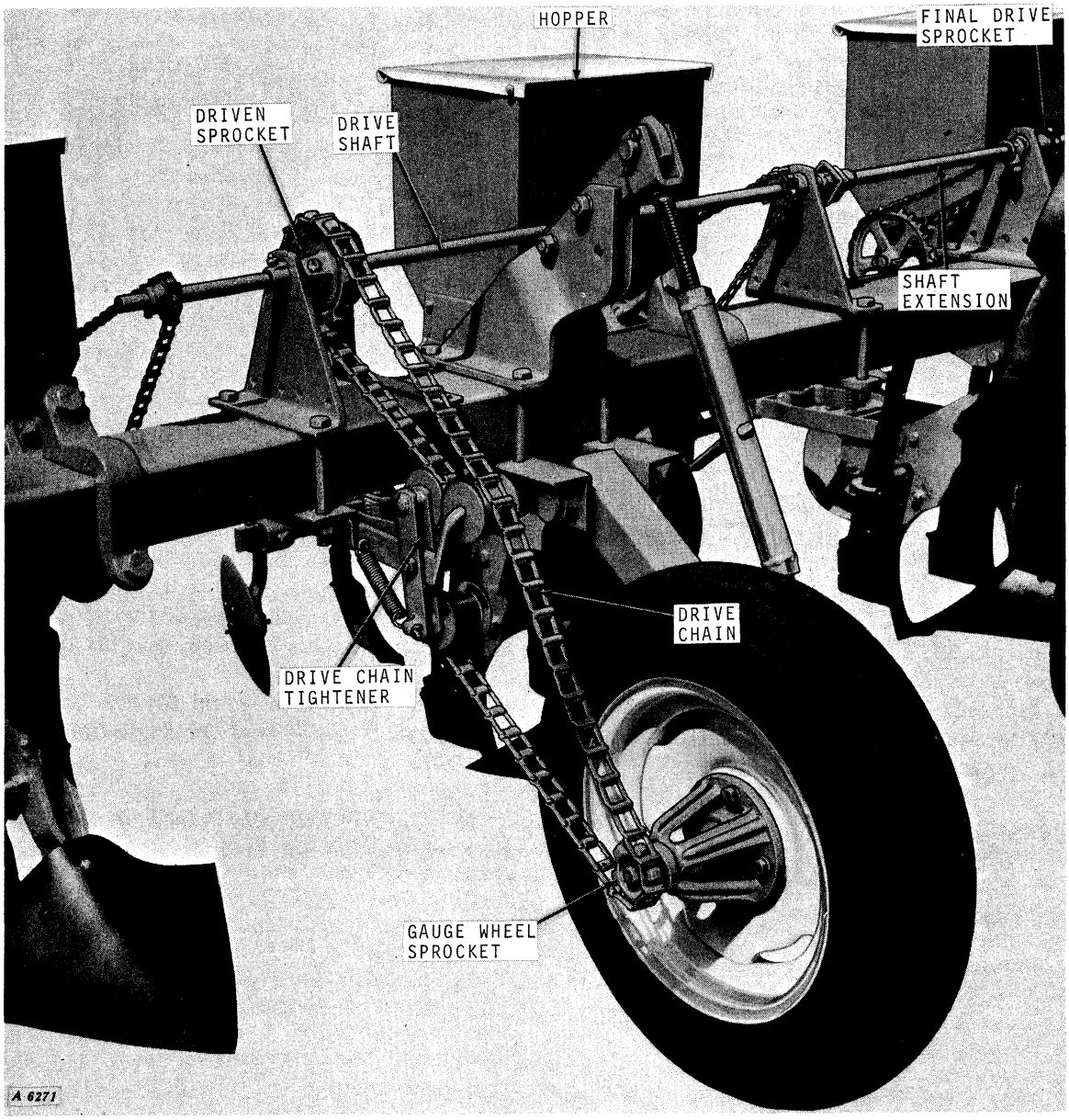
When using a PA845 or PA846 4-Row Planting Attachment on an F884 Bedder, the drive is transmitted from the gauge wheels to the seed hoppers through the gauge wheel sprockets, driven sprockets, drive shaft, and final drive sprockets by means of the drive chains.

Each gauge wheel drives two hoppers. The gauge wheels run directly ahead of the outside bottoms or sweeps.

Drive chain tighteners for the gauge wheels are located on the support angle under the bedder bar.

NOTE: Periodically check all drive parts to be sure they do not bind.

F886 BEDDER



F886 Bedder with PA865 Planting Attachment (Right-Side Illustrated)

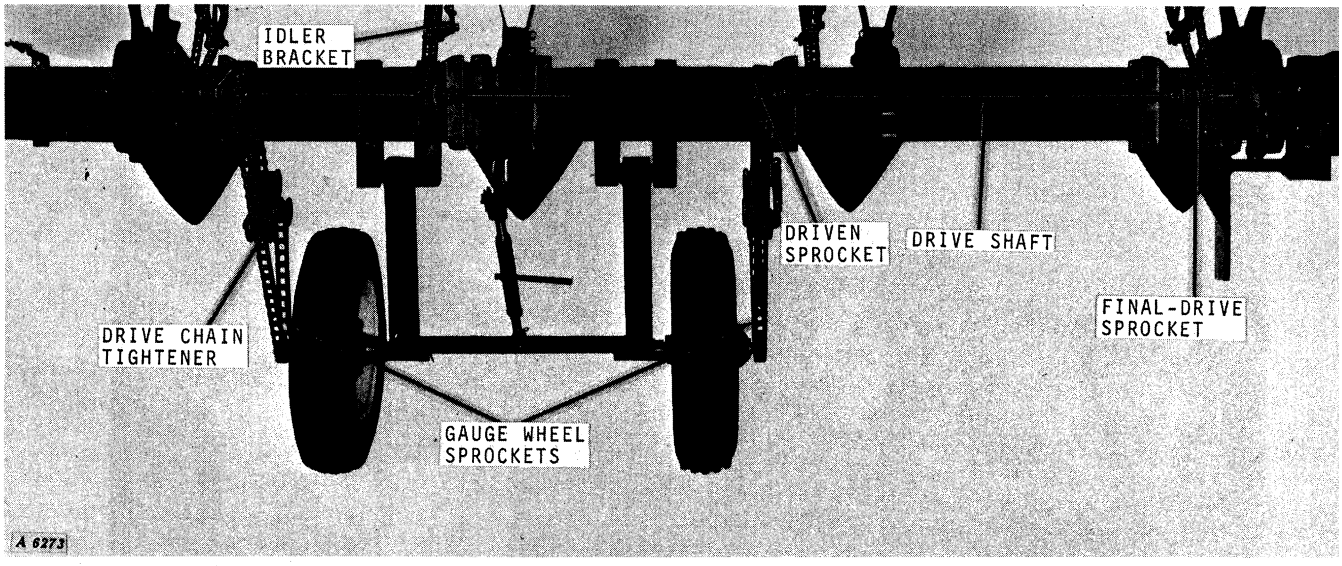
When using a PA865 or PA866 6-Row Planting Attachment on an F886 Bedder, the drive is transmitted from the gauge wheels to the seed hoppers through the gauge wheel sprockets, driven sprockets, drive shaft, and final drive sprockets by means of the drive chains.

Each gauge wheel drives three hoppers. The gauge wheels run inside of the outside bottoms or sweeps. Shaft extensions increase the length of the drive shafts to drive the inside hoppers.

Drive chain tighteners for the gauge wheels are located on the support angle under the bedder bar.

NOTE: Periodically check all drive parts to be sure they do not bind.

F888 BEDDER



F888 Bedder with PA885 Planting Attachment (Right-Side Illustrated)

When using a PA885 or PA886 8-Row Planting Attachment on an F888 Bedder, the drive is transmitted from the gauge wheels to the seed hoppers through the gauge wheel sprockets, driven sprockets, drive shaft, and final drive sprockets by means of drive chains.

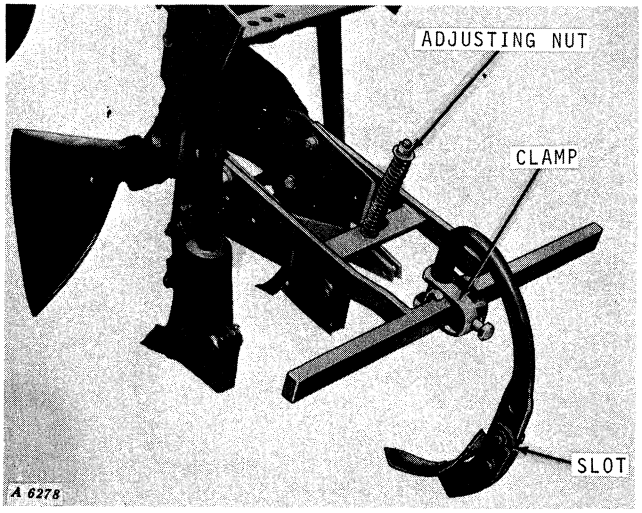
Each gauge wheel drives two hoppers. The gauge wheels run in front of the bedder bar between the bottoms, sweeps, or disk openers.

Drive chain tighteners for the gauge wheels are located on the support angle under the bedder bar.

NOTE: Periodically check all drive parts to be sure they do not bind.

PA845, PA865, AND PA885 PLANTING ATTACHMENTS

COVERING FRAME AND SHOVEL COVERER



The planting attachment is regularly equipped with a shovel coverer to throw loose soil over the seed after it has been deposited in the soil.

High crowned, high-wing angle 4-inch blackland sweeps may be used in place of the reversible shovel coverer.

Loosen clamp to adjust coverer to desired depth and angle. Tension on the covering frame plunger spring regulates the amount of penetration of the shovel coverer. This tension can be varied by adjusting the nut on the spring plunger. Medium tension is generally sufficient. If pressure is too great, the coverer will dig too deep and throw up too much soil.

The shovel sleeve is slotted at the upper end to allow shovel to trip when an obstruction is encountered, preventing damage to the shovel and planting attachment. The slot in the sleeve also provides suction adjustment for the shovel.

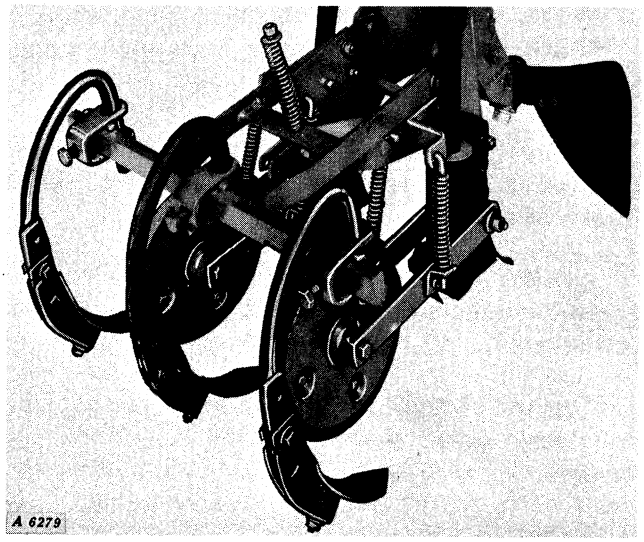
Tripping resistance is controlled by the degree of tightness of the adjusting bolt and nut. Be careful not to overtighten nut.

Shovel suction can be adjusted by first loosening adjusting bolt and nut and then moving shovel to desired position. Be sure to tighten nut for proper tripping resistance.

Three holes in the shovel shank allow the shovel to be moved up or down for different depths.

To reset a shovel after it has tripped, loosen adjusting bolt and nut, push shovel back in proper position, and tighten nut for proper tripping resistance.

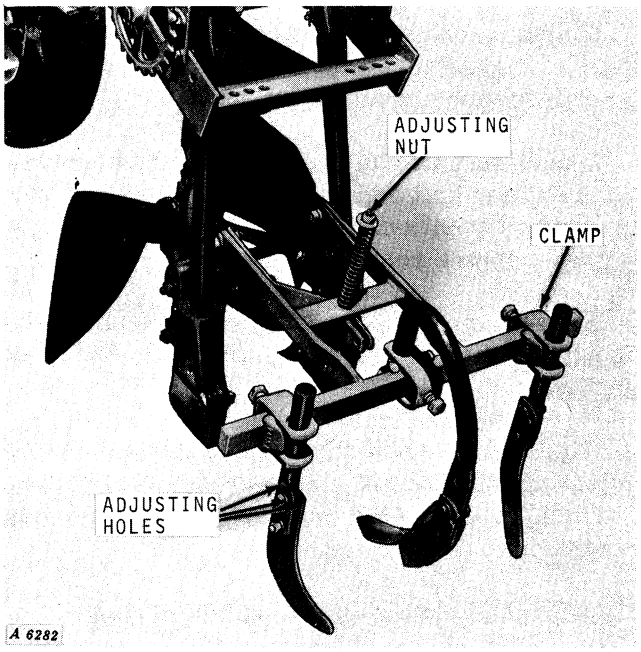
SHOVEL COVERERS (Special Equipment)



Shovel coverers are particularly effective in blackland or moist soils.

Adjust the coverers in the same manner as the single shovel coverer.

KNIFE COVERERS (Special Equipment)



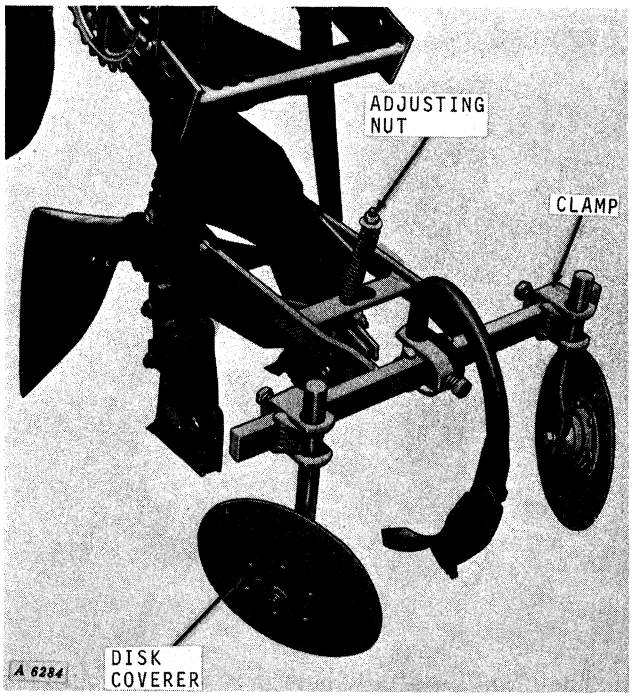
In well-conditioned soils, knife coverers may be used for additional soil coverage of the seed.

Three adjusting holes in the blade of each coverer allow the blade to be tilted at three different angles.

Adjust each knife coverer for depth by loosening the clamp and moving the shank up or down in the yoke.

Tension on the covering frame plunger spring regulates the penetration of the coverers. Increase or decrease the tension by adjusting the nut on the spring. Medium tension is generally sufficient. If pressure is too great, the coverers will dig too deep and throw up too much soil.

DISK COVERERS (Special Equipment)

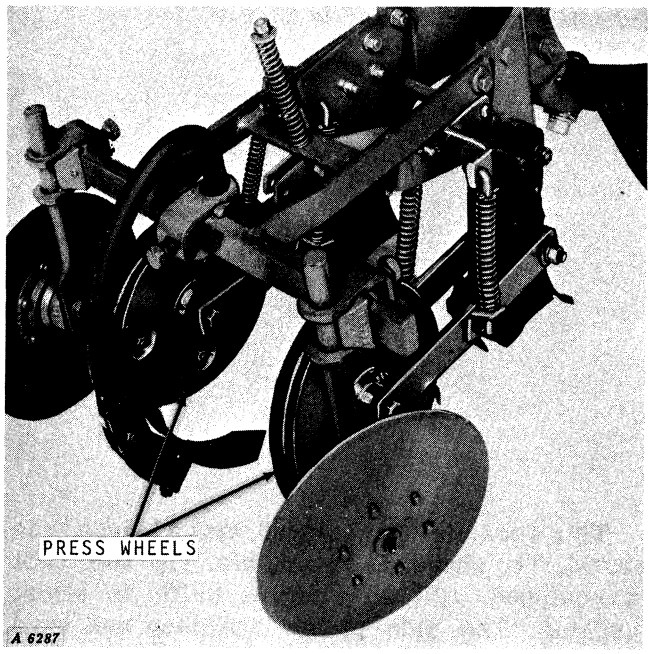


In trashy soil conditions, disk coverers ma; be used for additional coverage of the seed.

To adjust each disk coverer for depth an(angle, loosen the clamp and move the disk to th(desired position.

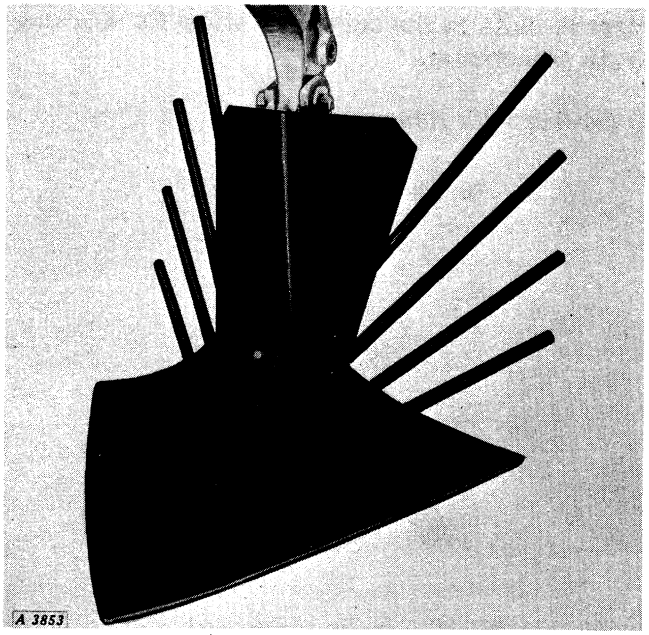
Tension on the covering frame plunger sprin(regulates the penetration of the coverers. Increase or decrease the tension by adjusting th(nut on the spring. Medium tension is generall; sufficient. If pressure is too great, the coverer; will dig too deep and throw up too much soil.

10 x 1-INCH PRESS WHEELS (Special Equipment)



Rubber-tired press wheels are available as special equipment. The 10 x 1-inch wheels firmly press the seed ahead of the coverers.

TRASH RODS AND SWEEPS (Optional Equipment)



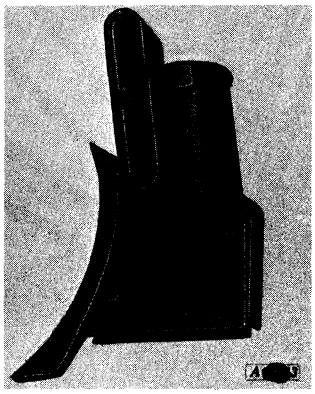
Trash rods and 22-inch sweeps are available in lieu of lister bottoms or regular sweeps.

They provide good trash coverage between beds. Wider seed beds also can be attained.

SUBSOILERS

The subsoiler is used to drop seed into the furrow. Slots in the subsoiler allow for working depth adjustment.

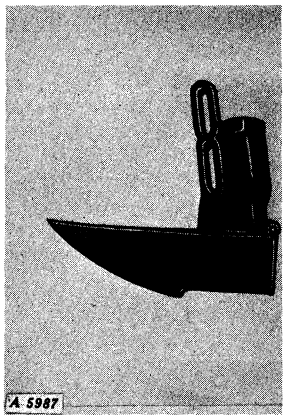
Subsoiler with Reversible Point



This subsoiler is equipped with a narrow tip reversible chisel. The seed boot is long and permits adjustment for deeper operation. The side plates are tapered and equipped with an integral baffle to resist plugging.

This subsoiler will open a trench and deposit seed in a narrow band. It is suited for use with the 10 x 1-inch press wheel.

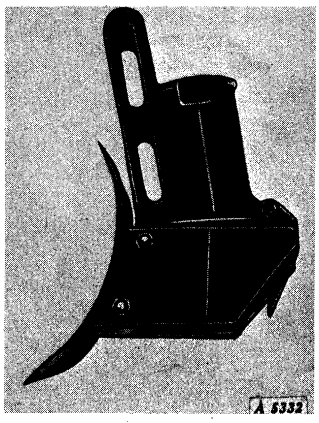
Subsoiler with Runner Opener



This subsoiler is equipped with a runner opener for use in rocky soils. The seed boot is long and permits adjustment for deep operation. The runner is narrow, has tapered sides and is equipped with an integral baffle to resist plugging.

This subsoiler will open a seed trench in rocky soils and deposit seed in a narrow band. This subsoiler is suited for use with the 10 x 1-inch press wheel.

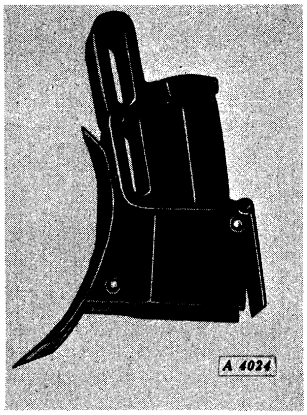
Subsoiler with Reversible Shovel



This subsoiler is equipped with a 2-inch wide shovel. The shovel is reversible. The seed boot is equipped with an integral baffle to resist plugging. The side plates are deep and have clipped ends.

This subsoiler will open a seed trench under adverse conditions in sticky soils.

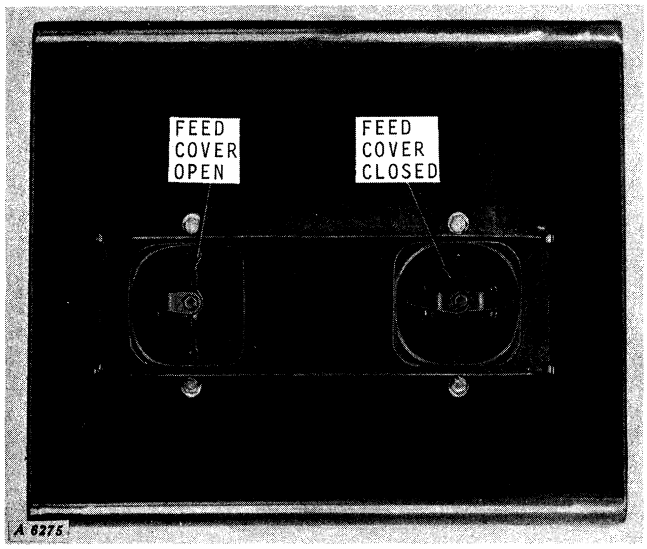
Subsoiler with Reversible Shovel and Short Boot



This subsoiler is equipped with a 2-inch wide shovel. The shovel is reversible. The seed boot is short and the side plates are deep and the ends are not clipped.

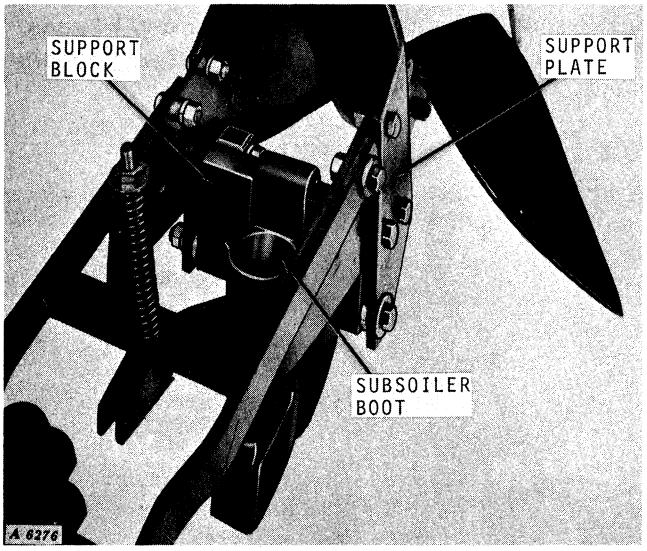
This subsoiler will open a seed trench under adverse conditions in sticky soils.

CONVERTING FROM DOUBLE-ROW TO SINGLE-ROW PLANTING
(PA845, PA865, and PA885 Only)



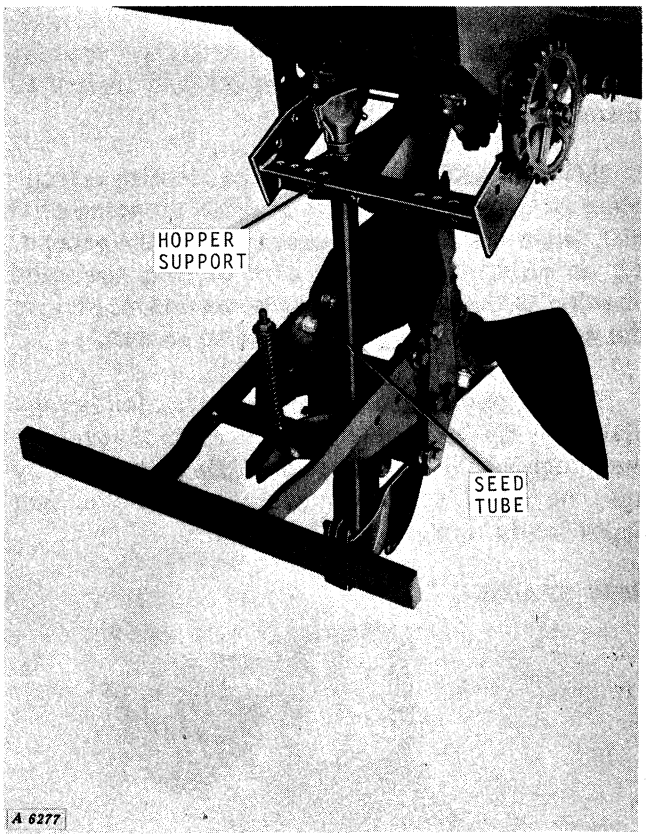
Cover one hopper feed completely as shown above.

Remove the seed tube from the covered feed.



Remove the two subsoilers from the outside of the support plates.

Insert one subsoiler and two support blocks (blocks are in BA14711) between the support plates and attach with bolts provided.



Offset hopper support to align the seed tube on the feed being used with the subsoiler. Place washer on seed tube and insert seed tube in subsoiler boot.

Remove single shovel coverer.

Disk coverers, knife coverers, or shovel coverers can be used with single-row planting.

NOTE: Be sure to convert all units on bedder using the above procedure.

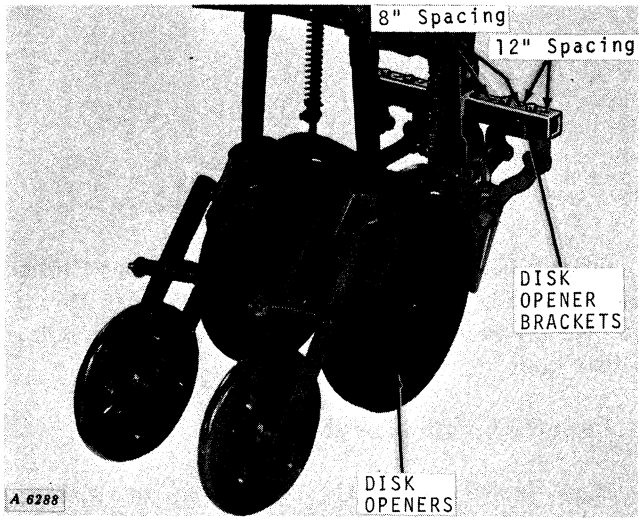
PA846, PA866, AND PA886 PLANTING ATTACHMENTS

The double-disk anti-friction openers are used when planting in well-prepared seed beds. Soil throw is minimized even at higher speeds. The disk opener blades are 13-1/2 inches in diameter.

IMPORTANT: Never back the planting attachment or allow it to roll back after stopping on a hill, when the furrow openers are in the ground. To do so will cause the dirt to clog the seed opening at the bottom of the boots and may cause the screws securing the blades to loosen.

The depth of furrow opener penetration is regulated by the tractor rockshaft control lever or the gauge wheels on the bedder. Depth bands may also be used to aid in controlling depth. See depth bands in right-hand column.

ROW SPACING



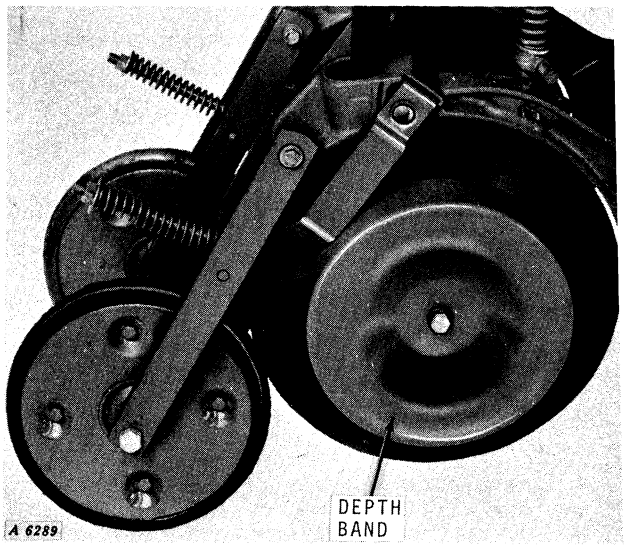
10-Inch Row Spacing

The double-disk openers are adjustable for seed row spacings of 8, 10, or 12 inches on 36-, 38-, or 40-inch rows.

The inside holes are for 8-inch spacing.
The middle holes are for 10-inch spacing.
The outside holes are for 12-inch spacing.

Disconnect the bolts securing the disk openers to the disk opener brackets and move to desired spacing. The disks on either side of the unit should be set the same.

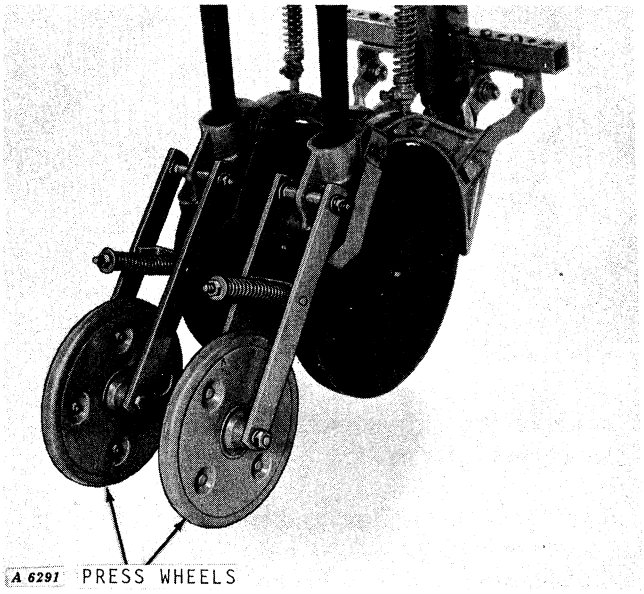
DEPTH BANDS (Special Equipment)



Depth bands gauge planting to a predetermine depth for more uniform germination. Scraper clean the disk blades and depth bands, preventin build-up of soil.

For 1-1/2-inch planting, use 10-1/2-inch dept bands.
For 2-inch planting, use 9-1/2-inch depth bands
For 2-1/2-inch planting, use 8-1/2-inch dept bands.

10 X 1-INCH PRESS WHEELS



The 10 x 1-inch press wheels firmly press the seed into the soil.

TROUBLE SHOOTING

Nearly all difficulties experienced in the field are caused by failure to make necessary adjustments and by not operating the planting attachments according to instructions in this manual. The possible cause and remedy for most planting difficulties can be found in the chart.

Disks Not Revolving

Possible Cause	Remedy
Scrapers adjusted too tight.	Loosen scrapers so they have just sufficient pressure to clean disks. Disengage scrapers when not needed.
Pressure not adjusted properly so furrow opener can float over high and low spots in field.	Be sure the spring pressure on furrow openers is properly adjusted so they will penetrate to the proper depth.

Clogging of Furrow Openers

Using trashy seed.	Use clean seed.
Stopping planting attachment in field and letting it roll backward, filling the bottom of boot with dirt.	Raise furrow openers before stopping. Do not permit planting attachment to roll backwards if it is necessary to stop without raising furrow openers.

Bunching and Skipping

Improper adjustment of furrow openers resulting in openers not penetrating low spots or bouncing over rough ground.	Adjust furrow openers.
Stopping planting attachment in field.	Stop only at ends of field whenever possible.
Dragging seed out of ground by harrowing after planting.	Use covering chains or packer.

Varying Quantities Planted by Individual Feeds

Feed gates not all set the same.	Adjust gates according to instructions on page 7.

Quantities Planted Not Agreeing with Seed Chart

Heavier or lighter than average weight seed.	Check quantity planted as explained on page 8.

SAFETY RULES

Be careful when operating the bedder and planting attachments, to avoid injury to yourself and anyone helping you.

Only one person—the operator—should be permitted on the tractor platform while tractor, bedder, and planting attachments are in operation.

Never clean, lubricate, or adjust a machine that is in motion.

When transporting the bedder and planting attachments on a road or highway at night or during the day, use accessory lights and devic for adequate warning to the operators of oth vehicles. In this regard, check local governme tal regulations. Accessory lights and devices m be obtained from your John Deere dealer.

The bedder and planting attachment is equi ped with a slow moving vehicle emblem for war ing to the operators of vehicles approaching fro the rear. Keep this emblem clean.

Finally, remember this: An accident is usual caused by someone's carelessness, neglect, oversight.

MAINTENANCE

RUST PREVENTION

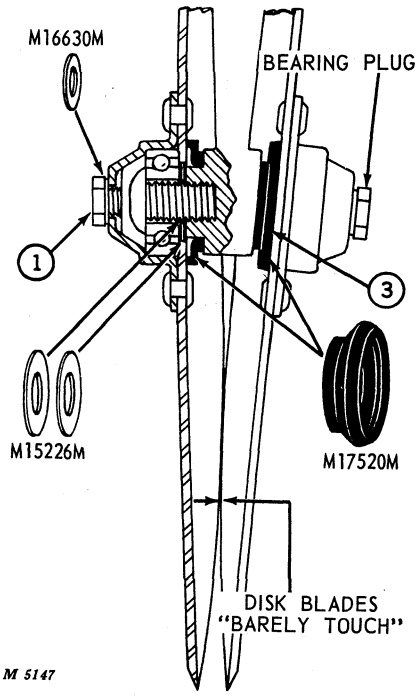
Protect the face of the bottoms, sweeps, or disk openers from rust whenever the planting attachment is not in use (even overnight) by applying a light coating of oil or grease. When storing the planting attachment for the season, apply a good rust preventive such as John Deere Plow Bottom Black Paint or a heavy coating of cup or gun grease. The paint is available from your John Deere dealer in brush-type (PT64) or a 12-ounce spray can (PT65).

SHARES, SWEEPS, AND SHOVELS

Be sure to maintain a uniform shape of the cutting edge when worn shares are being sharpened. When replacing shares, insist on genuine John Deere Shares with the word "Deere" stamped on the back near the share number. "Deere" replacement shares fit like the originals and have more and better material in points and wearing surfaces to stay sharp longer.

Genuine John Deere shovels and sweeps contain high quality material in points and other wearing surfaces. They fit better, stay sharp longer, and save you money. Buy your shovels and sweeps from your John Deere dealer.

DOUBLE-DISK OPENERS



Removal and Installation

1. Remove bearing plug from bearing case The plugs have right-hand threads.

2. Insert 5/16-inch hexagon wrench throug hole in bearing case and turn off disk blade Right-hand disk blades have right-hand threads Left-hand disk blades have left-hand threads.

Carefully inspect parts for wear or damag and replace with new parts when necessary.

DOUBLE-DISK OPENERS—Continued

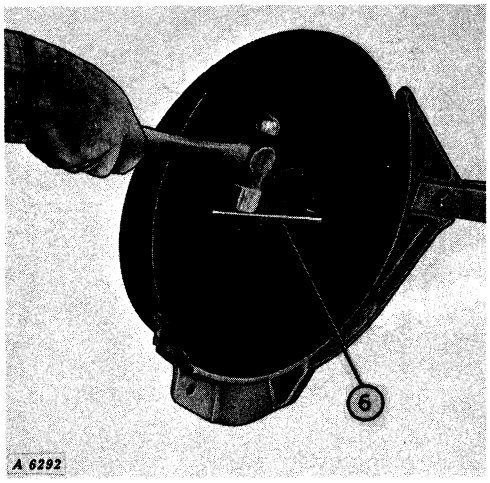
IMPORTANT: Do not remove ball bearing from bearing case. Replacement parts are supplied with ball bearing, bearing case, and bolt assembled in place. However, it is recommended that rubber seals be replaced with new ones at the end of each seed season and lubricated as described in Step 4.

NOTE: The sealed bearing on this opener does not require lubrication.

3. Proper reassembly is important. Slip rubber seal over boot hub so that flared open end of seal faces mating disk blade as illustrated. Be sure to press rubber seal down firmly to the shoulder on the hub.

4. Fill cupped portion of rubber seal with special grease furnished with AM13000M seal and grease kit.

5. Install two M15226 spacer washers on each hub and assemble disk blades to hub. Tighten firmly. **IMPORTANT: Disk blades should "barely touch" at the closest point. Revolve disks to be certain disks turn freely with scrapers disengaged. If adjustment is necessary, add or deduct spacer washers as required. Most new assemblies will require two washers while worn blades may require none.**



6. Disk blade and bearing assemblies must be tightened to the boot casting by impact. Tighten socket screw firmly and then strike the end of the wrench three times with a 1-1/2-pound hammer.

7. Replace and tighten the bearing plug firmly. Be sure M16630M washer is under head of bearing plug.

Adjust scrapers so they have just enough tension to clean the disks and do not prevent them from turning.

SERVICE AT THE BEGINNING OF THE SEASON

Clean off any dirt or grease that may have accumulated on moving parts. This will prevent abrasive action that could cause excessive wear.

Thoroughly inspect the planting attachment for loose parts and adjust as necessary.

Lubricate as shown on pages 26 and 27.

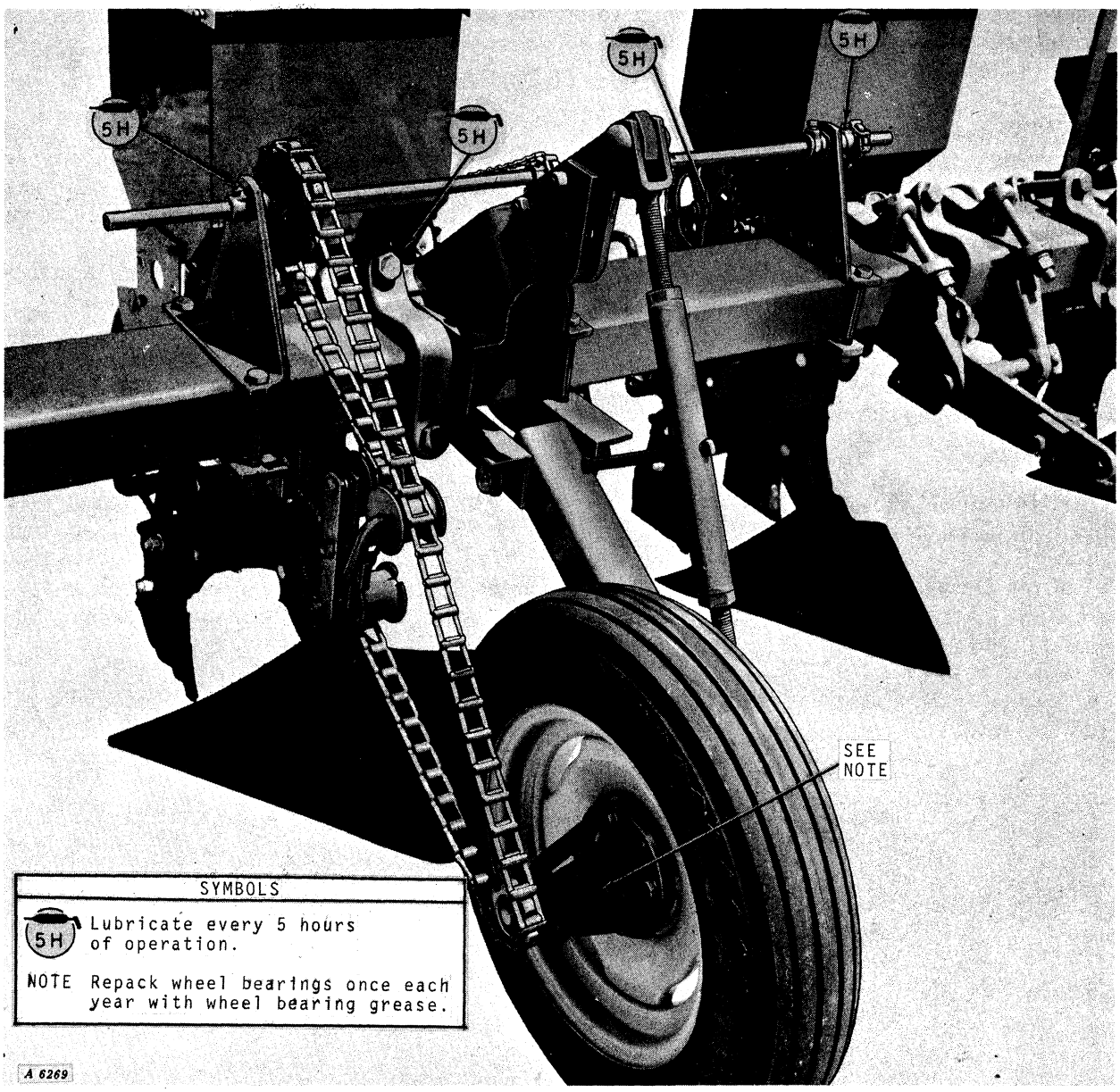
SERVICE AT THE END OF THE SEASON

The planting attachment's chief enemies, rust and corrosion, are busy the year-around. A little time and effort spent protecting the attachment from destructive moisture will repay you in longer service, easier operation, and higher resale value.

Clean planting attachment thoroughly to remove dirt and trash which would hold moisture and cause rusting.

Apply a good rust preventive to all land-polished surfaces such as the bottoms or sweeps. See "Rust Prevention" on page 24.

LUBRICATION

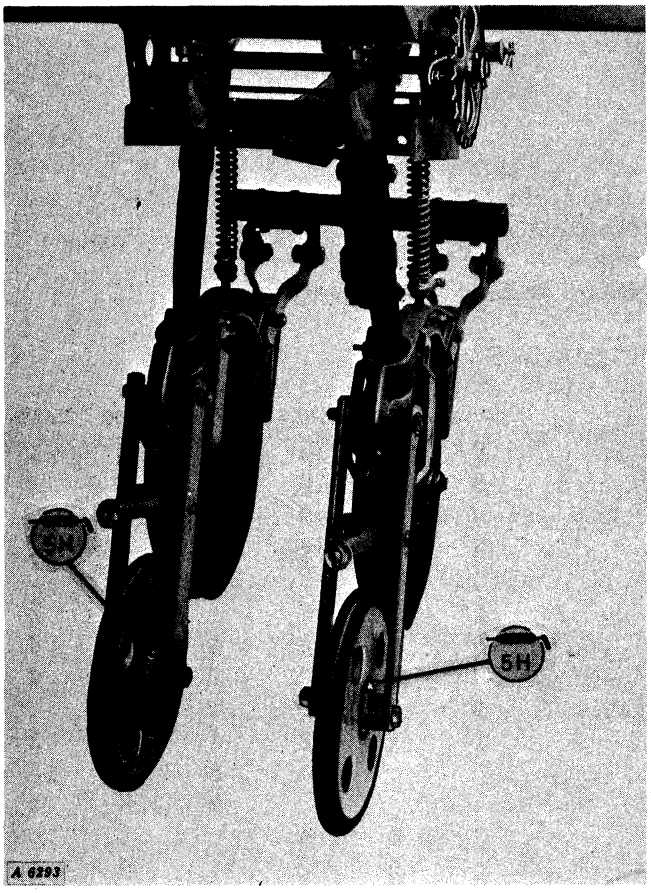


Lubrication Chart
PA845 Planting Attachment (Illustrated)

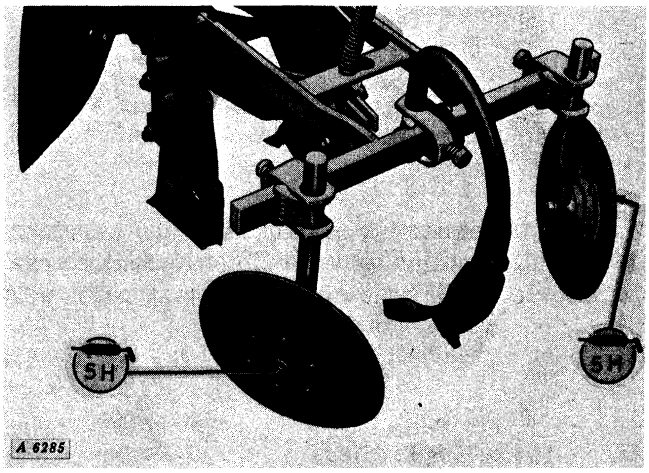
Grease fittings are provided at all points indicated in the lubrication chart. All parts provided with grease fittings should be lubricated as indicated with SAE multipurpose-type grease. If any grease fittings are missing, replace them immediately. Clean the fittings thoroughly before using grease gun.

All other moving parts on the bedder and planting attachment should be oiled twice daily with SAE 30 lubricating oil.

The period recommended is based on normal conditions; severe or unusual conditions may require more frequent lubrication.



PA846, PA866, and PA886 Planting Attachments



PA845, PA865, and PA885 Planting Attachments

Lubrication Symbol
5H Lubricate every 5 hours of operation with SAE multipurpose-type grease.

ASSEMBLY

1. Read all assembly instructions and carefully observe illustrations.
2. Cut all bundling wires and conveniently arrange parts.
3. Lubricate all bearings and moving parts as you proceed so they move freely.

REGULAR SHIPPING BUNDLES

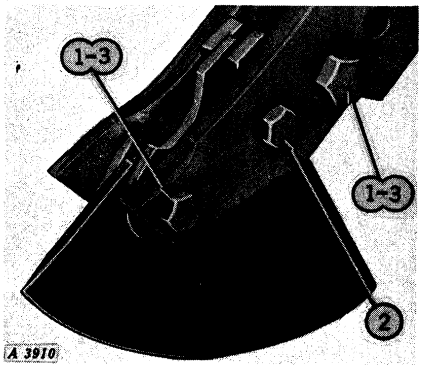
Bundle No.	Description		PA845	PA865	PA885	PA846	PA866	PA
SD 104 A	Subsoiler)		8	12	16	..	..	.
BA 11162 A	Subsoiler)	Optional	8	12	16	..	..	.
BA 14381	Subsoiler)		8	12	16	..	..	.
BA 14416	Subsoiler)		8	12	16	..	..	.
BA 10019 A	Shaft Extension		..	2	..	..	2	.
BA 11298 A	Shaft Support		1	2	2	1	2	
BA 14640	Hopper		4	6	8	4	6	
BA 14641	Hopper Support		2	3	4	2	3	
BA 14642	Covering Frame and Subsoiler Support		4	6	8	..	..	.
BA 14643	Gauge Wheel Drive		1	1	2	1	1	
BA 14676	Disk Opener		..	..	..	8	12	1
BA 14677	Disk Opener Support		..	..	..	2	3	
SD 121 A	Shovel Coverers		2	3	4	..	..	.
SD 2625 A	Shaft		2	2	4	2	2	

SPECIAL BUNDLES

Y 901 N	Sweep 4-inch) In lieu of shovel for use		4	6	8	..	..	.
Y 845 N	Sweep 4-inch) with SD121A Shovel Coverer		4	6	8	..	..	.
CA 1959 AN	Bolt)		4	6	8	..	..	.
SD 118 A	Disk Coverer		4	6	8	..	..	.
SD 119 A	Knife Coverer		4	6	8	..	..	.
SD 121 A	Shovel Coverer		4	6	8	..	..	.
BA 11180 A	10 x 1-inch Press Wheel		8	12	16	..	..	.
BA 11168 A	Trash Rods and Sweep - 22-inch		4	6	8	..	..	.
BM 20035	10-1/2-inch Depth Band)		..	..	..	2	3	4
BM 20037	9-1/2-inch Depth Band)	Optional	..	..	..	2	3	4
BM 20039	8-1/2-inch Depth Band)		..	..	..	2	3	4
BA 14710	Spring Bracket		2	3	4	..	..	..
BA 14711	Subsoiler Support Block (required to convert from double- to single-row planting		2	3	4	..	..	..

PA845, PA865, AND PA885 PLANTING ATTACHMENTS

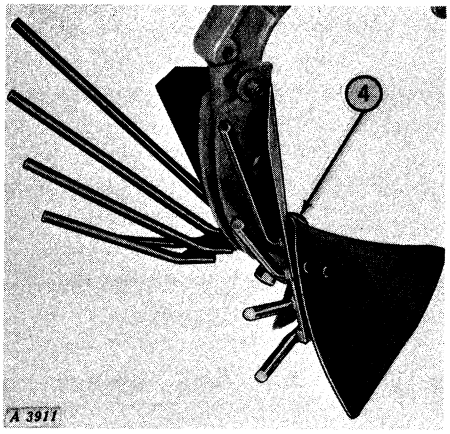
TRASH RODS AND SWEEP
(Optional Equipment)



1. Remove two spacers from standard.

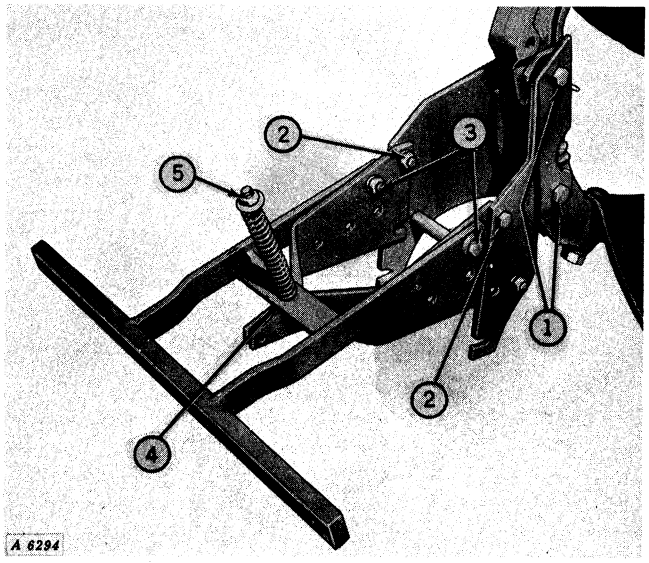
2. Insert blocks and root cutter and attach with bolts supplied.

3. Replace bolts removed in Step 1.



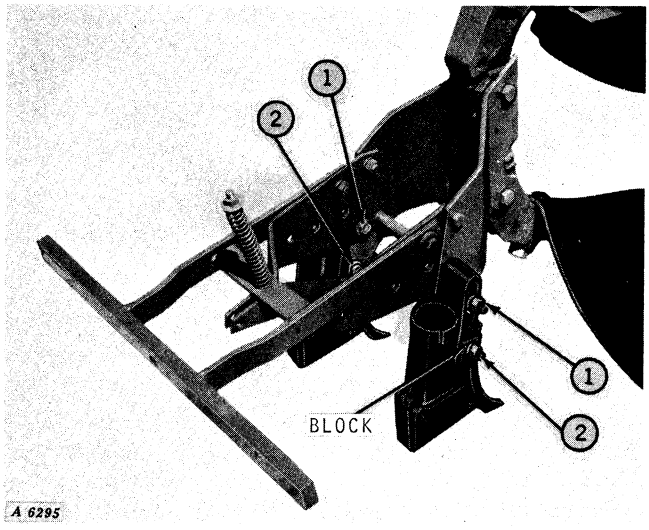
4. Attach sweep to standard.

COVERING FRAME



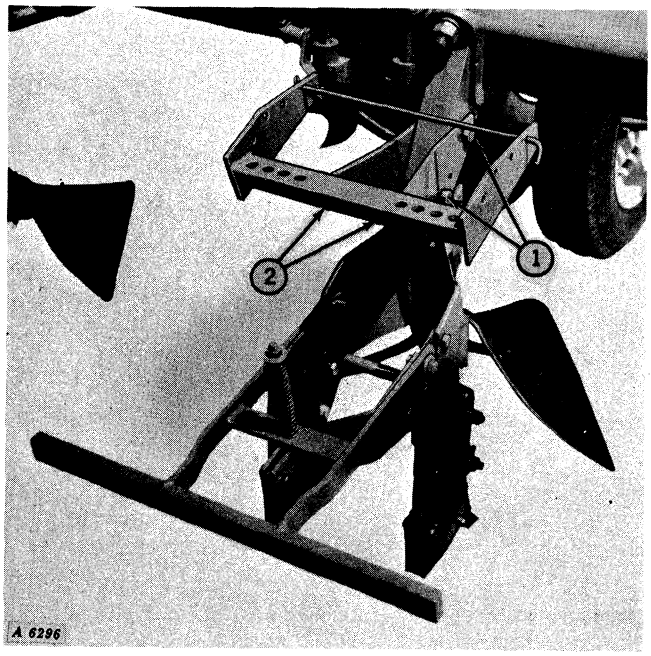
1. Attach support brackets to standard and beam.
2. Attach plunger supports to support brackets.
3. Attach covering frame to plunger supports.
4. Secure plunger eyebolt to plunger support with bolts provided.
5. Attach spring with washer and plunger nut. Tighten nut.

SUBSOILER



1. Attach subsoilers to support brackets and plunger supports.
2. Attach subsoiler and blocks to support brackets.

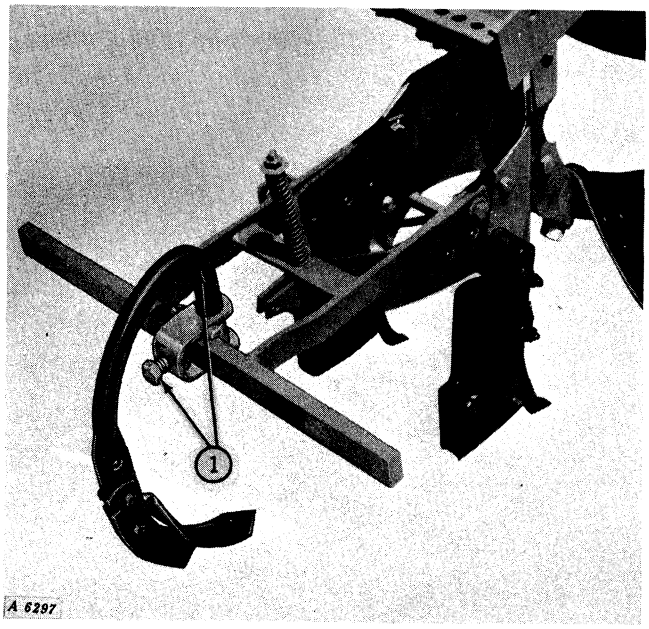
HOPPER SUPPORT



1. Attach support plates to beam.

2. Attach hopper support to support plates.

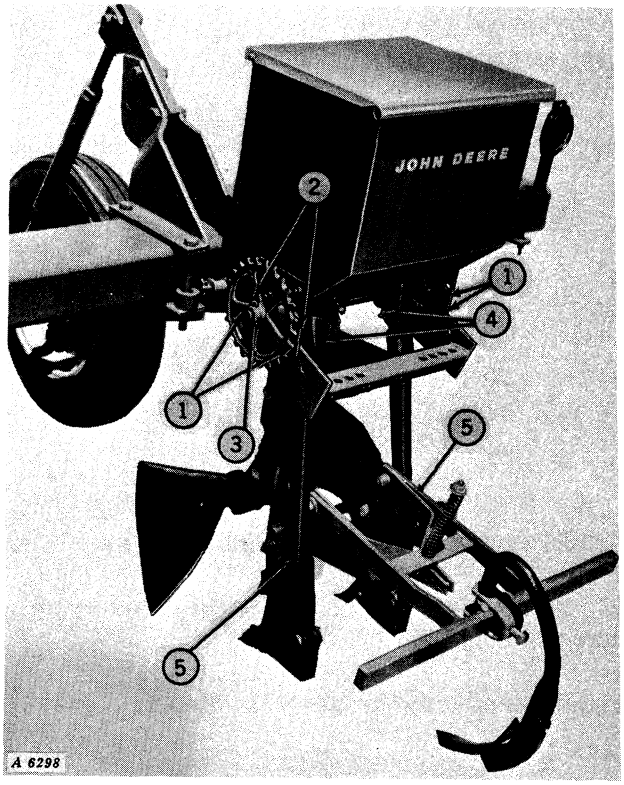
SHOVEL COVERER



1. Insert shank into yoke and tighten bolt securely.

See page 17 for adjustment of shovel coverers.

MAIZE HOPPER AND SEED TUBES



1. Attach hopper support plates to outside hopper supports.

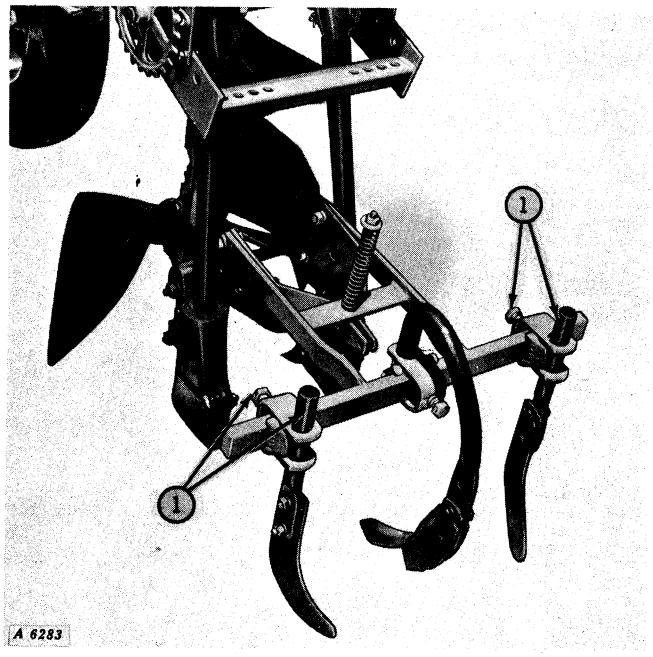
2. Bolt bearing bracket to hopper suppo plate.

3. Insert shaft through driven sprocket an hopper. Secure with cotter pin.

4. Attach seed tube tops and seed tubes t hopper.

5. Slip washers over ends of seed tubes. In sert seed tubes into subsoilers as shown.

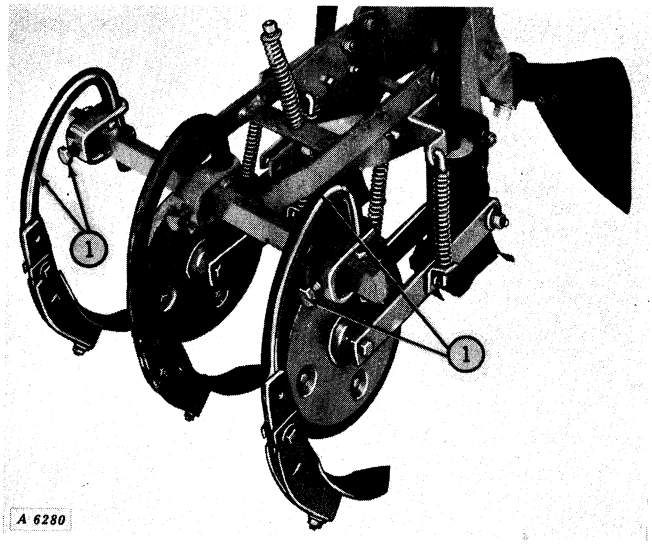
KNIFE COVERERS (Special Equipment)



1. Insert shank into yoke and tighten bolt securely.

See page 18 for adjustment of knive coverers.

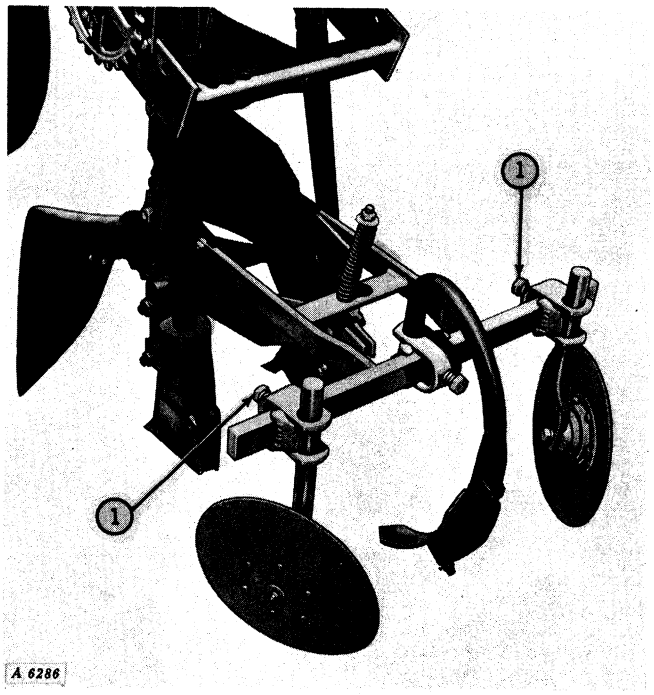
SHOVEL COVERERS (Special Equipment)



1. Insert shank into yoke and tighten bolt securely.

See page 17 for adjustment of shovel coverers.

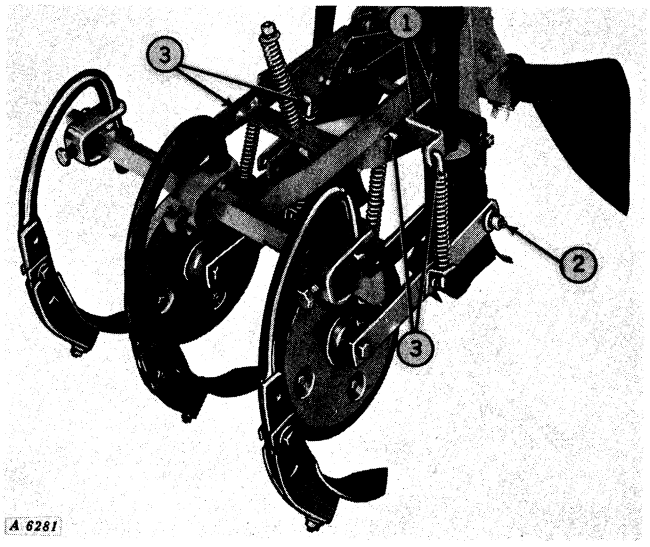
DISK COVERERS (Special Equipment)



1. Attach disk coverers and tighten bolts securely.

See page 18 for adjustment of disk coverers.

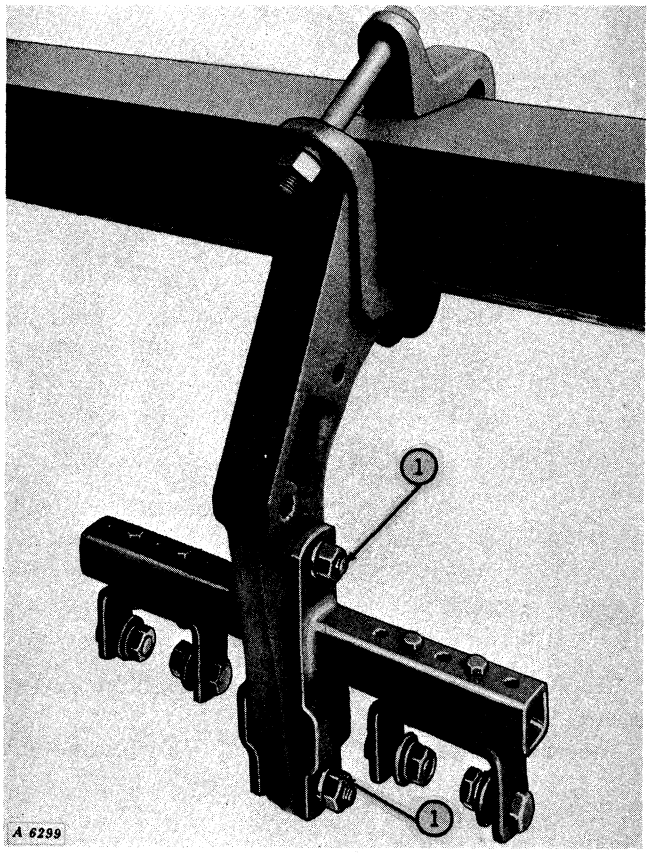
10 X 1-INCH PRESS WHEELS
(Special Equipment)



1. Attach spring brackets with bolts provided.
2. Remove 1/2 x 4-inch machine bolt and washers from subsoiler and support frame. Attach press wheel frame to subsoiler and support frame with 1/2 x 4-1/2-inch machine bolt provided.
3. Attach spring plungers to plunger supports and spring brackets with cotter pins.

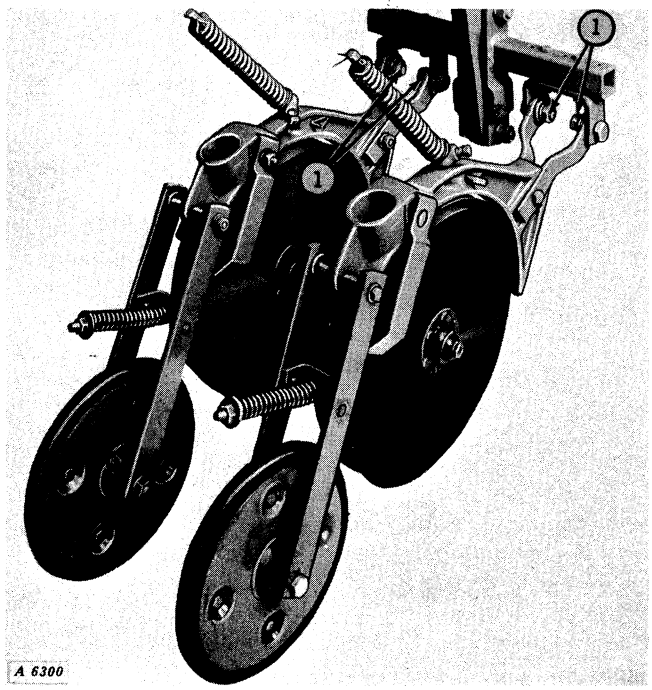
PA846, PA866, AND PA886 PLANTING ATTACHMENTS

DISK OPENER BRACKETS



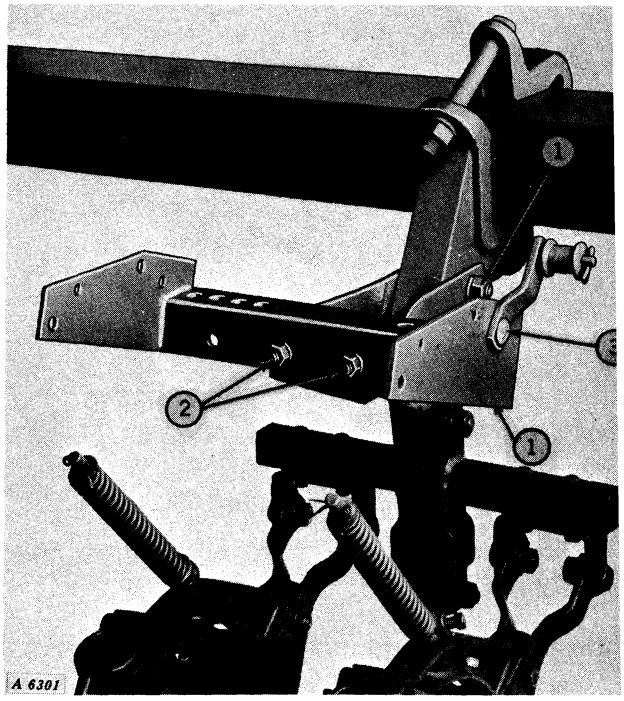
1. Attach disk opener brackets to beam.

DISK OPENERS



1. Bolt disk openers to brackets with bol bushings, lock washers, and nuts provided.

HOPPER SUPPORT

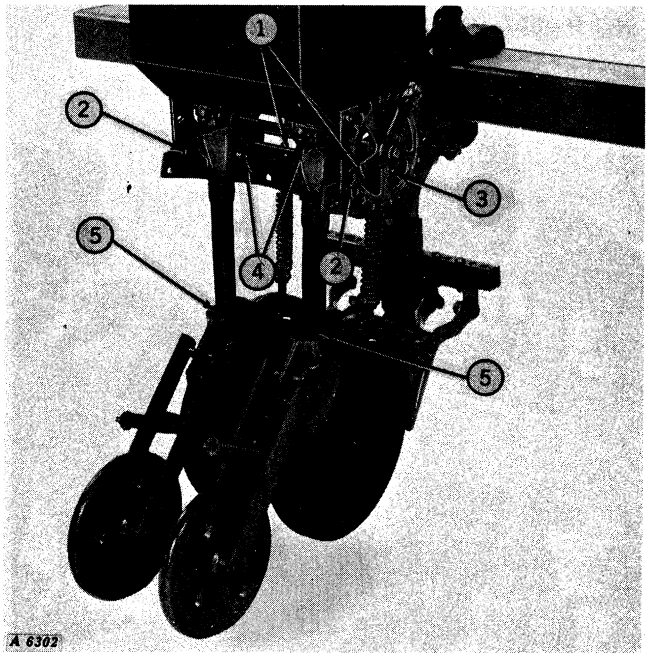


1. Attach disk opener brackets to the beam a shown.

2. Bolt hopper support to support plates.

3. Bolt idler bracket to hopper support.

PLUNGER RODS, HOPPER, AND SEED TUBES



1. Attach plunger rods and secure with cotter pins.

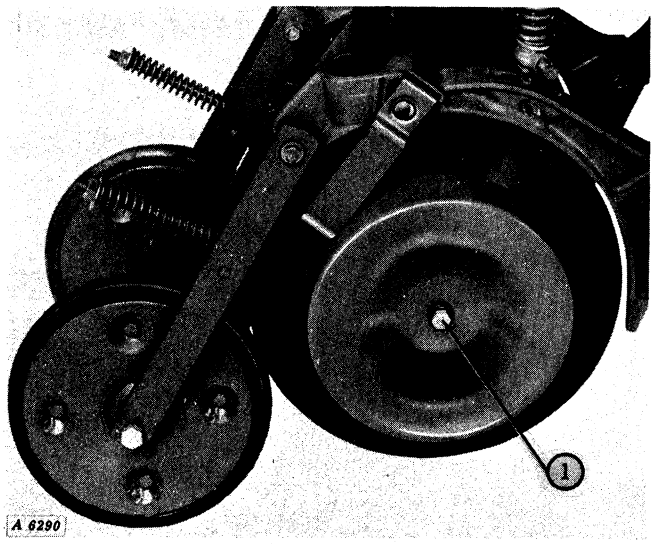
2. Secure rear of hopper to support with bolts and lock nuts provided.

3. Attach front of hopper to support with pin and spring locking pin.

4. Secure seed tubes with cotter pins.

5. Insert seed tubes into disk opener boot.

DEPTH BANDS (Special Equipment)

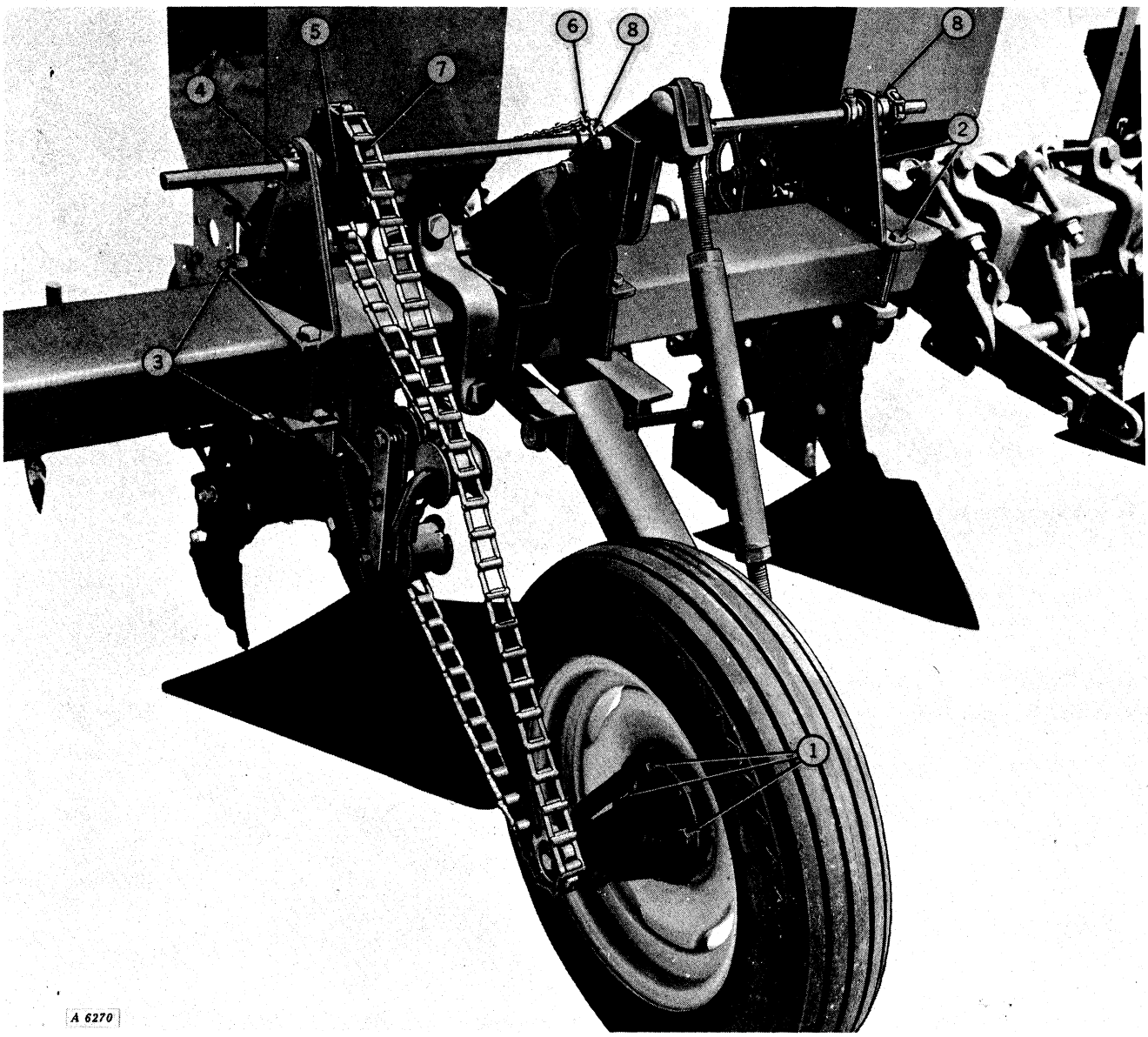


1. Attach depth bands with cap screw and washers supplied.

GAUGE WHEEL DRIVE

PA845, PA846, PA865, PA866, PA885, and PA886 Planting Attachments

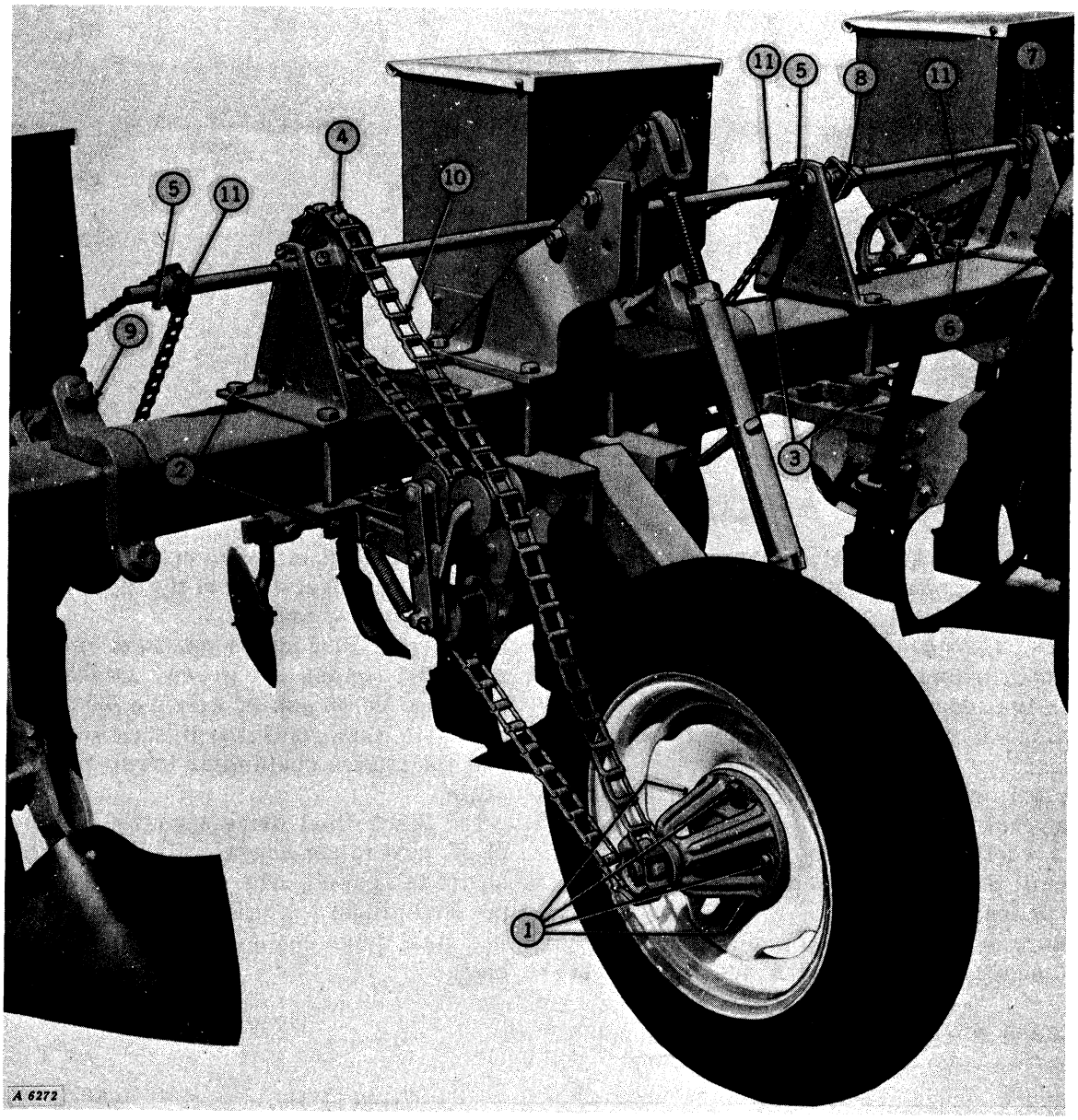
F884 BEDDER



1. Attach drive sprocket support and sprocket to gauge wheel. Leave spacers on wheel bolts and attach support and sprocket to wheel.
2. Attach inside shaft support with chain tightener to bedder bar.
3. Attach outside shaft support with chain tightener to bedder bar.
4. Insert drive shaft though outside shaft support bearing.
5. Place gauge wheel drive sprocket on drive shaft.
6. Place driven sprocket on drive shaft an slide drive shaft through inside shaft suppor bearing.
7. Align sprockets and tighten set screw o sprocket. Attach gauge wheel drive chain a shown above. Be sure the open ends of the chai links run in the direction of travel.
8. Place driven sprocket on end of driv shaft, align sprockets, and tighten set screws o final drive and driven sprockets. Attach fina drive chain as shown above. Be sure the ope ends of the chain links run in the direction o travel.

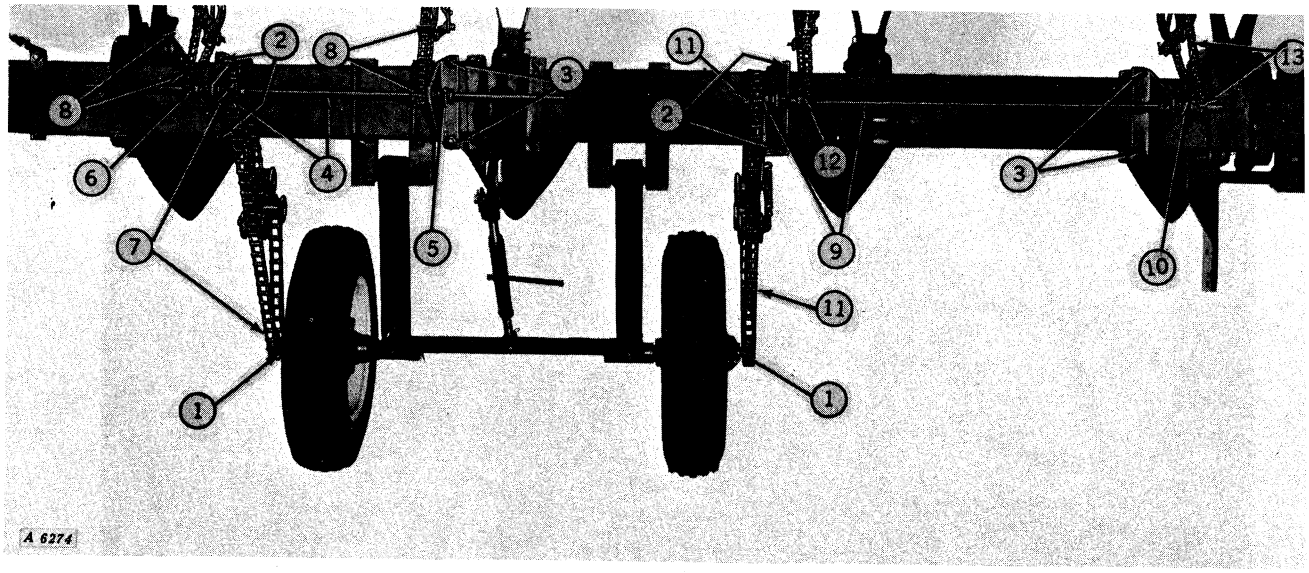
Tighten all nuts securely.

F886 BEDDER



1. Attach drive sprocket and support to gauge wheel. *Note: On 4-bolt wheels, leave spacers on wheel bolts and attach support and sprocket to wheel.*
2. Attach outside shaft support with chain tightener to bedder bar.
3. Attach inside shaft support to bedder bar with bolts provided.
4. Slide drive shaft through outside shaft support bearing and place gauge wheel drive sprocket on the drive shaft.
5. Slip final drive sprocket on drive shaft as shown and slide drive shaft through inside shaft support.
6. Attach final inside shaft support to bedder bar with bolts provided.
7. Insert connecting shaft and slip set screw collar and final drive sprocket on connecting shaft at this time.
8. Attach male knuckle to connecting shaft and drive shaft with drilled pin and cotter pin.
9. Attach chain tighteners to hopper supports.
10. Align sprockets and tighten set screw on sprocket. Attach gauge wheel drive chain as shown above. Be sure the open ends of the chain links run in the direction of travel.
11. Align sprockets and tighten set screws on final drive and driven sprockets. Attach final drive chain.

F888 BEDDER



1. Attach drive sprocket support and sprocket to wheel with bolts supplied. *Note: On 4-bolt wheels, leave spacers on wheel bolts and attach support and sprocket to wheel.*

2. Attach outside shaft supports with chain tightener to bedder bar.

3. Attach inside shaft supports with bolts to bedder bar.

4. Insert outer drive shaft through outside shaft support bearing and place gauge wheel driven sprocket and final drive sprocket on the drive shaft. Slide drive shaft through inside shaft support bearing.

5. Place set screw collar on outer drive shaft, next to shaft support bearing and tighten set screw.

6. Attach final drive sprocket to outer drive shaft, next to outside shaft support bearing.

7. Secure gauge wheel driven sprocket to drive shaft and tighten set screw on sprocket. Attach gauge wheel drive chain as shown above. Be sure the open ends of the chain links run in the direction of travel.

8. Align final drive sprockets and tighten set screws. Attach final drive chain as shown above. Be sure the open ends of the chain links run in the direction of travel. Adjust final drive chain idler to remove slack from chain.

9. Insert inner drive shaft through outside shaft support bearing and place final drive sprocket on drive shaft. Slide drive shaft through inside shaft support.

10. Place set screw collar on inner drive shaft, next to shaft support bearing and tighten set screw.

11. Attach gauge wheel driven sprocket to drive shaft adjacent to outside shaft support bearing. Attach gauge wheel drive chain as shown abo Be sure the open ends of the chain links run the direction of travel.

12. Align final drive sprocket on inner dri shaft and tighten set screw. Attach final dri chain as shown above. Be sure the open ends the chain links run in the direction of travel. A just final drive chain idler to remove slack fro chain.

13. Place final drive sprocket on inner dri shaft, next to set screw collar. Align final dri chain as shown above. Be sure the open ends the chain links run in the direction of travel. A just final drive chain idler to remove slack fro chain.

DRIVE CHAINS

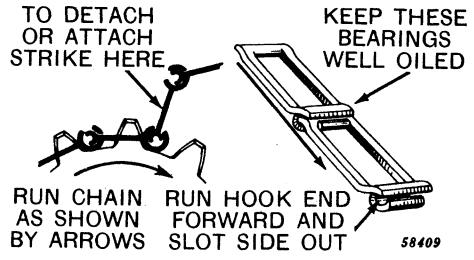


Illustration above shows proper installatio of chains.

GREASE FITTINGS

Insert grease fittings in all locations shown i the Lubrication Chart on pages 26 and 27. Lubri cate all points as indicated in the chart.

MEMORANDA

MEMORANDA

MEMORANDA

MEMORANDA

nobody can fill them like you can!

That's what the owner of this pair of work shoes is finding out—the hard way. Through a careless action, he has become the victim of an accident. It's a mighty tough way to find out that nobody else can wear your shoes or practice safety for you. And a needless, costly lesson to learn that safety is an everyday need.

Put safety into each of your workdays; read the operator's manual thoroughly; know how to operate each machine properly and safely; take the safety precautions specified; think before you act.

Make sure you wear your "shoes" everyday. Outfit yourself with a safety program now.