

John Deere PA824, PA840 Series PA860 Series and PA884 Planting Attachments



JOHN DEERE

OPERATORS MANUAL

John Deere PA824, PA840 Series PA860
Series and PA884 Planting Attachments

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To the Purchaser

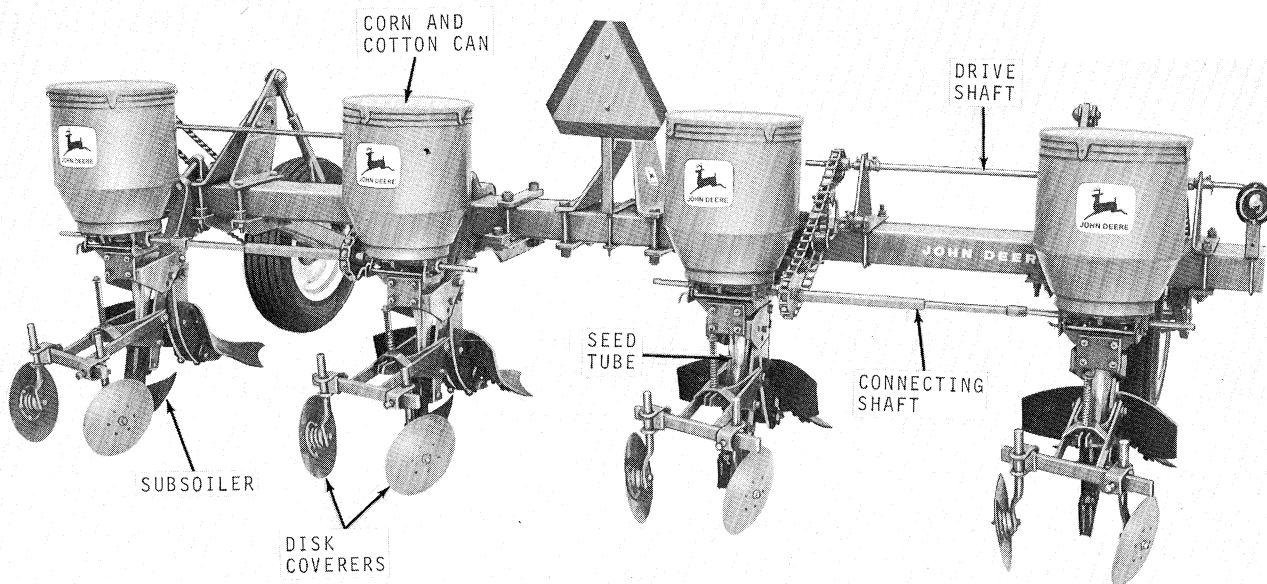
This new planting attachment was carefully designed and manufactured to give years of dependable service. To keep it operating efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—operation, lubrication, or maintenance. Read "Contents" to learn where each section is located.

 This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

"Right-hand" and "left-hand" sides are determined by facing in the direction the planting attachment will travel when in use.

Record the model of your planting attachment in the space provided on page 59. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your planting attachment requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

The warranty on this planting attachment appears on your copy of the purchase order which you should have received from your dealer when you purchased the planting attachment.



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John Deere PA844 Planting Attachment on F884 Integral 4-Row Bedder



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Operation

GENERAL

The John Deere PA824, PA840 Series, PA860 Series, and PA884 Planting Attachments are designed for the F871, F884, F886, and F888 Bedders.

These planting attachments have short straight-line tubes to prevent bunching of seed, and disk covers to assure uniform depth of soil over the seed.

These planting attachments may be used for surface planting, bed planting, and furrow planting, depending on the type of planting units used.

The planting attachment 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 instructions on preparing the bedder.

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 slowly enough so the seed tubes do not become plugged with dirt.

Rear Wheel Setting

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

Front Wheel Setting

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

Front End Weighting

Front ballast (added weight) may be required for transport stability and steering control when operating.

The total maximum amount of weight recommended at the front wheels for normal field operation is approximately 1/3 the total tractor weight.

The following table was developed on this basis to provide maximum safety for the operator and maximum efficiency of the tractor-implement combination.



CAUTION: Front end ballast may not always maintain the required stability if the tractor is driven too fast over rough ground with the bedder and planting attachment in raised position. Be safe and drive slowly under these conditions.

To determine if additional front ballast is necessary for transport stability, refer to the code number listed in the chart on page 3 pertaining to your bedder and planting attachment. Using this number, see "Determining Ballast from Implement Code" chart on page 4 or "Front Ballast" in your tractor operator's manual for proper weighting.

NOTE: To obtain maximum front end weighting for tractor-implement combinations where implement code information is not available, proceed as follows:

Drive tractor onto a scale so only the front wheels are on the scale and subtract this weight from 1/3 the tractor shipping weight. Add front end weights to equal the difference.

IMPLEMENT CODE**Bedder**

	F884	F885	F886	F888
Basic Bedder	40	46	68	95
Add for Single Gauge Wheels Behind Bedder Bar	4	4	4	-
Add for Dual Gauge Wheels in Front of Bedder Bar (F886 only)	-	-	5	-
Add for Dual Gauge Wheels Behind Bedder Bar	-	-	13	13
Add for 36 or 39A Disk Marker Attachments	7	-	-	-
Add for 40A Disk Marker Attachment	-	8	10	12
Add for 41 Disk Marker Attachment	-	-	-	15
Add for 15-Foot Bedder Bar (F884 only)	3	-	-	-
Add for 22-Foot Bedder Bar (F886 only)	-	-	6	-
Add for 30-Foot 6-Inch Bedder Bar (F888 only)	-	-	-	7
Add for Transport Attachment	-	-	18	18

Planting Attachments

	2-row PA824	4-row PA840 Series	6-row PA860 Series	8-row PA884
Add for Basic Planting Attachment	17	56	93	79
Add for 10 x 1-Inch Press Wheels	2	3	5	7
Add for No. 8 Press Wheel Attachments	9	18	31	-
Add for Herbicide Attachments	6	12	21	8
Add for Insecticide Attachments	5	11	18	7
Add for Insecticide and Herbicide Attachments	9	17	28	16
Deduct for Single Lift Assist Wheel	-	-	1/3 of total	
Deduct for Dual Lift Assist Wheels	-	-	Implement Code	

Example:

Let's assume you have an F886 Bedder with the optional 22-foot bedder bar, dual gauge wheels mounted on the rear of the bedder bar, PA862 Planting Attachment with 10 x 1-inch press wheels and insecticide and herbicide attachments. By checking the above chart, you will arrive at the following implement code:

F886 Basic Bedder	68
Add for 22-Ft. Bar	6
Add for Dual Gauge Wheels behind Bedder Bar	13
Add for PA862 Planting Attachment	93
Add for 10 x 1-Inch Press Wheels	5
Add for Insecticide and Herbicide Attachments	28
Total Implement Code	213

When using this bedder and planting attachment on a 4320 Tractor with a Quik-Coupler, refer to "Implement Code Adjustments For Tractor Equipment" on page 4. In accordance with this information, add 10 to the total implement code of 213.

Next check the chart "Determining Ballast from Implement Code" on page 4 to see how much front end weight will be required. This example requires 2 side weights and 9 double front weights.

4 Operation

IMPLEMENT CODE ADJUSTMENTS FOR TRACTOR EQUIPMENT

Add to or subtract from implement points as indicated for equipment on tractor.

Variations In Equipment	Tractor						5020 or 6030
	2520	3020	4000	4020	4320	4620	
With Quik-Coupler	+10	+10	+10	+10	+10	0	0
Without Quik-Coupler	0	0	0	0	0	0	0
Adjustable Tread	0	0	0	0	0	0	0
Fixed Tread	0	+ 3	0	- 3	- 8	0	+14
Tricycle Front End	+15	+15	0	+12	+30	0	0
Short Draft Links	0	0	0	-12	-10	0	0
Long Draft Links	0	0	0	0	0	0	0



CAUTION: If the total implement code from page 3 and from "Implement Code Adjustments for Tractor Equipment" above is greater than the maximum code number listed for your tractor, then this combination is not recommended for use.

DETERMINING BALLAST FROM IMPLEMENT CODE

		Tractor						5020 or 6030
		2520	3020	4000	4020	4320	4620	
Quantity of Single Front Weights		RANGE OF IMPLEMENT CODE NUMBERS						
0		0 - 99	0 - 112	0 - 137	0 - 130	0 - 157	0 - 197	0 - 225
2+		100 - 105	113 - 119	138 - 143	131 - 136	158 - 164	198 - 204	226 - 233
1		106 - 110	120 - 123	144 - 148	137 - 141	165 - 169	205 - 209	234 - 238
2		111 - 116	124 - 128	149 - 154	142 - 146	170 - 175	210 - 215	239 - 243
3		117 - 120	129 - 134	155 - 159	147 - 151	176 - 180	216 - 219	244 - 249
4		121 - 125	135 - 139	160 - 164	152 - 157	181 - 185	220 - 225	250 - 255
5		126 - 130	140 - 144	165 - 171	158 - 162	186 - 191	226 - 231	256 - 260
6		131 - 136	145 - 149	172 - 176	163 - 167	192 - 197	232 - 237	261 - 266
7		(137) - 141	150 - 155	177 - 181	168 - 173	198 - 202	238 - 241	267 - 270
8		142 - 146	156 - 160	182 - 188	174 - 177	203 - 208	242 - 247	271 - 272
Quantity of Double Front Weights								
0		0 - 95	0 - 111	0 - 135	0 - 128	0 - 156	0 - 196	0 - 223
2++		96 - 106	112 - 119	136 - 144	129 - 137	157 - 165	197 - 204	224 - 233
1°°		107 - 114	120 - 127	145 - 153	138 - 146	166 - 174	205 - 214	234 - 241
1		115 - 119	128 - 133	154 - 158	147 - 151	175 - 179	215 - 219	242 - 247
2		120 - 124	134 - 137	159 - 162	152 - 154	180 - 184	220 - 224	248 - 251
3		125 - 129	138 - 142	163 - 167	155 - 160	185 - 190	225 - 229	252 - 257
4		130 - 134	143 - 147	168 - 175	161 - 166	191 - 195	230 - 235	258 - 263
5		135 - 139	148 - 152	176 - 180	167 - 171	196 - 201	236 - 240	264 - 269
6		140 - 144	153 - 157	181 - 186	172 - 176	202 - 206	241 - 245	270 - 275
7		145 - 149	158 - 162	187 - 191	177 - 182	207 - 211	246 - 251	276 - 280
8		150 - 155	163 - 167	192 - 195	183 - 185	212 - 216	252 - 257	281 - 286
9		156 - 159	168 - 173	196 - 201	186 - 191	217 - 223	258 - 262	287 - 291
10		160 - 164	174 - 178	202 - 208	192 - 197	224 - 229	263 - 268	292 - 296
11		165 - 170	179 - 183	209 - 214	198 - 203	230 - 234	269 - 274	297 - 302
12		171 - 175	184 - 189	215 - 219	204 - 209	235 - 240	275 - 279	303 - 308
13		176 - 180	190 - 194	220 - 226	210 - 214	241 - 245	280 - 284	309 - 314
14		181 - 186	195 - 198	227 - 231	215 - 219	246 - 251	285 - 291	315 - 320

+ Side Frame Weights (cast) only. Remaining quantities are in addition to side frame weights.

++ Side Frame Weights (steel) only.

°° Side frame weights plus double front weight. Remaining quantities are in addition to side frame weights and double front weights.

□ Maximum Implement Code for Bedders and Planting Attachments not equipped with Lift Assist Wheel Attachment. (Integral)

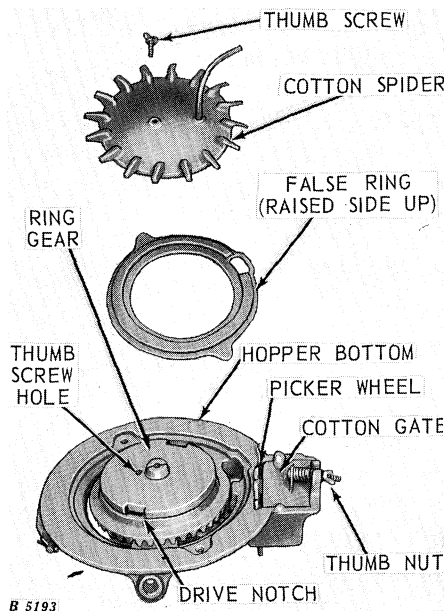
() Maximum Implement Code for Bedders and Planting Attachments equipped with Lift Assist Wheel Attachment. (Semi-Integral)

Integral application maximum capacities are determined by tractor lift capacity.

PREPARING THE PLANTING ATTACHMENT

Corn and Cotton Can

Planting Cotton With Picker Wheel (Special Equipment)



When using the PA824, PA844, PA864, or PA884 Planting Attachments to plant cotton, remove the corn cut-off from the hopper by unscrewing the thumb screw which holds it in place.

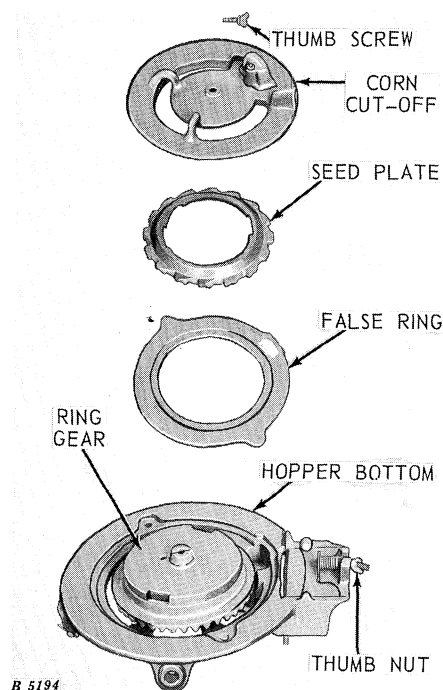
Place the false ring in hopper with the **raised side up**.

Install the cotton spider and hold it in place with the thumbscrew. The hole in the cotton spider is off to one side of center and lines up with the thumbscrew hole in the hopper bottom. The drive lugs on the cotton spider must engage the drive notches on the hopper bottom.

The quantity of cotton planted is regulated by the cotton gate. To increase the quantity of seed planted, turn the thumb nut to the right which will open the cotton gate. To decrease the quantity of seed planted, turn the thumb nut to the left.

For best results use the larger sprocket on the drive shaft and the small sprocket on the hopper drill shaft. This will drive the picker wheel at its fastest speed.

Planting Corn, Acid-Delinted Cotton, and All Other Seeds



Remove the cotton spider.

Install false ring with **raised side up** when planting small seed such as: feterita, sorghum, etc. If corn, acid-delinted cotton, or other larger seeds are to be planted, install the false ring with **flat side up**.

NOTE: Some seed plates require special false rings. See seed plate chart on page 7.

Install seed plate.

Install corn cut-off and fasten in place with the thumbscrew. The cut-off must fit tightly against the false ring.

SEED PLATES

The selection of the seed plates is one of the most important steps in preparing the planting attachments for the field.

There is a great variety of John Deere seed plates available in various cell sizes and number of cells.

Growing conditions change from year to year, and the size of the seed will also vary. Therefore, it is quite likely that different seed plates are required to

plant the same variety of seed from year to year.

There are two ways to select seed plates. One is to follow the recommendation of the seed supplier, if available, and the other is to take a sample of the seed to be planted to a John Deere dealer and let him recommend the seed plates.

The following is a list of the most popular plates available:

PLATES FOR FLAT KERNELS OF CORN

12-Cell	16-Cell	24-Cell	Kind of Corn
.....	H697B	B30070	Extra Small Corn
H966B	H694B	H1302B	Small Corn
.....	H1572B	H2711B	Small Slender Corn
H948B	H695B	H950B	Medium Corn
.....	H2156B	H2594B	Long Thick Corn
.....	H696B	H2836B	Large Corn
.....	H2504B	H2848B	Medium Flat Slurry Treated Corn
.....	H2503B	H2847B	Large Flat Slurry Treated Corn
.....	B12498	.....	Extra Large Flat Slurry Treated Corn

PLATES FOR ROUND KERNELS OF CORN

12-Cell	16-Cell	24-Cell	Kind of Corn
.....	H2295B	.....	Extra Small Round Corn
.....	H2043B	H2824B	Small Round Corn
H2560B	H1933B	B10853	Medium Round Corn
.....	H2044B	H2712B	Large Round Corn
.....	H2820B	.....	Extra Large Round Corn

PLATES FOR SOYBEANS

20-Cell
H1255B
H2527B
Use with H1279B Floor Plate in PA842, PA843, PA862, and PA863 Planting Attachments and P1583B Floor Plate in PA824, PA844, PA864, and PA884 Planting Attachments.

PLATES FOR EDIBLE BEANS

16-Cell	20-Cell	24-Cell
H1324B	H1300B	H1301B
H1071B	H954B	H983B
H956B	H1315B	.....
.....	H1258B	.....
.....	H1254B	.....
.....	H1255B	.....
.....	H1084B	.....

PLATES FOR ACID-DELINTED COTTON SEED

24-Cell	48-Cell
H1301B	H3160B

The following is a partial list of seed plates which require a special false ring or floor plate, or the regular floor plate turned over:

Seed Plate No.	No. of Cells	Kind of Seed
uH 779B	16	Popcorn
uH 780B	16	Medium Country Gentleman Sweet Corn
uH 961B	16	Spanish Corn and Small Popcorn
uH 963B	16	Large Country Gentleman Sweet Corn
uH 964B	16	Small Sweet Corn, Small Sunflower Seed
uH 1238B	16	Medium Shoe Peg Corn
uH 1239B	16	Medium Sweet Corn, Large Sunflower Seed
uH 1240B	16	Extra Small Country Gentleman Tapered Sweet Corn
kH 1262B	16	Cantaloupes and Cucumbers
oH 1263B	16	Beet Seed (Thin Plate)
oH 1316B	16	Extra Small Round Corn
sH 1322B	16	Extra, Extra Small Corn
sH 1345B	16	Small Round Corn
sH 1352B	16	Extra Small Narrow Corn
nH 1353B	16	Tomato Seed (Machined Plate)
uH 2505B	16	Popcorn
uH 2671B	16	Popcorn
uH 2709B	16	Popcorn
uB 27768	16	Maize and Grain Sorghum
uH 781B	20	Popcorn

pH 2527B	20	Soybeans—Heavy Planting
sH 2672B	24	Maize and Grain Sorghum
nH 1256B	25	Onion Seed (Machined)
nB 27769	32	Maize and Grain Sorghum
uH 776B	....	Blank Plate 5/32" Thick (Holes can be drilled up to 1/4")
kH 1211B	....	Blank Plate 5/32" Thick (Cells can be filed in edge)
nH 1259B	..	Blank Plate 5/32" Thick (Machined)

Legend

(k) Corn Can	—Use with Y3313B False Ring
(k) Cotton and Corn Can	—Use with P509B False Ring
(n) Corn Can	—Use with AH306B Floor Plate and Y5055B False Ring
(n) Cotton and Corn Can	—Use with P671B False Ring
(o) Corn Can	—Use with H1264B Floor Plate
(p) Corn Can	—Use with H1279B Floor Plate
(p) Cotton and Corn Can	—Use with P1583B False Ring
(s) Corn Can	—Use with H1323B Floor Plate
(s) Cotton and Corn Can	—Use with P2498B False Ring Raised Side Up
(u) Corn Can	—Use with Y2630B False Ring or H1346B Floor Plate
(u) Cotton and Corn Can	—Turn P1582B False Ring Raised Side Up

PLANTING DISTANCES AND QUANTITIES

The sprockets, length of chains, and seed plates determine the planting distances in the field. The number of points or teeth on the sprockets govern the speed that the seed plate travels in relation to the ground travel. The length of the chain is determined by the size of the sprockets used.

ACID-DELINTED COTTON SEED

(Gauge-Wheel Drive; 40-Inch Rows; 6.70-15 Tires; 8-Tooth Sprocket on Gauge Wheel Drive)

Changeable Gears		Pounds Per Acre Planted						
Driving	Driven	Inches Ground Travel Per Plate Revolution	Plate Revolutions Per Acre	24-Cell H1301B	48-Cell H3160B	16-Cell H695B	20-Cell H1315B	24-Cell H950B
12-tooth	6-tooth	101	1549	13.1	16.4	22.0	24.9	33.1
12-tooth	* 7-tooth	118	1355	11.2	14.0	18.8	21.2	28.2
12-tooth	8-tooth	134	1162	10.0	12.3	16.5	18.5	24.7
12-tooth	* 9-tooth	151	1036	8.6	10.9	14.6	16.5	21.9
8-tooth	6-tooth	151	1036	8.6	10.9	14.6	16.5	21.9
12-tooth	10-tooth	168	931	7.9	9.8	13.1	14.9	19.7
8-tooth	8-tooth	202	774	6.6	8.2	11.0	12.4	16.5
8-tooth	10-tooth	252	620		6.6	8.8	10.9	13.3
6-tooth	8-tooth	269	582			8.3	9.3	12.4
* 9-tooth	12-tooth	269	582			8.3	9.3	12.4
8-tooth	12-tooth	302	518			7.3	8.3	10.9
6-tooth	10-tooth	336	466			6.7	7.4	10.0
* 7-tooth	12-tooth	353	402			6.3	7.1	9.4
6-tooth	12-tooth	403	388			5.5	6.2	8.3
				Approximate Number of Seeds per Plate Revolution				
				48	60	80	90	120

NOTES: When gauge wheels with 7.60-15 Tires are used, reduce planting amounts by 4 per cent.

Add 5 per cent for 38-inch rows.

* 7- and 9-tooth sprockets are available as special equipment.

COTTON CELL-DROP ATTACHMENT

(Gauge-Wheel Drive; 40-Inch Rows; 6.70-15 Tires; 8-Tooth Sprocket on Gauge-Wheel Drive)

Driving Sprocket	Driven Sprocket	Inches Ground Travel Per Plate Revolution	Plate Revolutions Per Acre	Pounds Per Acre Planted		
				Mechanically Delinted 24-Cell AB10310	48-Cell AB12536	Lint Seed 32-Cell AB12535
12-tooth	6-tooth	101	1549	54	..	54
12-tooth	* 7-tooth	118	1355	48	..	48
12-tooth	8-tooth	134	1162	41	..	41
12-tooth	* 9-tooth	151	1036	36	..	36
8-tooth	6-tooth	151	1036	36	..	36
12-tooth	10-tooth	168	931	32	..	32
8-tooth	8-tooth	202	774	27	53	27
8-tooth	10-tooth	252	620	22	44	22
6-tooth	8-tooth	269	582	20	40	20
* 9-tooth	12-tooth	269	582	20	40	20
8-tooth	12-tooth	302	518	18	36	18
6-tooth	10-tooth	336	466	16	32	16
* 7-tooth	12-tooth	353	402	16	32	16
6-tooth	12-tooth	403	388	13	27	13

NOTES: Due to variations in cotton seed, use the above table only as a starting point.

When gauge wheels with 7.60-15 tires are used, reduce planting amounts by 4 per cent. Add 5 per cent for 38-inch rows.

* 7- and 9-tooth sprockets are available as special equipment.

Recommended Plate - AB12536 or AB10310 for Mechanically Delinted Seed.

AB12535 for Lint (Fuzzy) Seed.

MAIZE

(Gauge-Wheel Drive; 6.70-15 Tires; H3102B 32-Cell Plate)

Driving Sprocket	Driven Sprocket	Inches Ground Travel Per Plate Revolution	Plate Revolutions Per Acre	Pounds Per Acre Planted	
				38-Inch Rows	40-Inch Rows
12-tooth	6-tooth	101	1549	10.8	10.3
12-tooth	* 7-tooth	118	1355	9.5	9.0
12-tooth	8-tooth	134	1162	8.2	7.8
12-tooth	* 9-tooth	151	1036	7.1	6.8
8-tooth	6-tooth	151	1036	7.1	6.8
12-tooth	10-tooth	168	931	6.5	6.2
8-tooth	8-tooth	202	774	5.4	5.1
8-tooth	10-tooth	252	620	4.3	4.1
6-tooth	8-tooth	269	582	4.1	3.9
* 9-tooth	12-tooth	269	582	4.1	3.9
8-tooth	12-tooth	302	518	3.6	3.4
6-tooth	10-tooth	336	466	3.2	3.0
* 7-tooth	12-tooth	353	402	3.1	2.9
6-tooth	12-tooth	403	388	2.7	2.6

NOTES: Quantities decrease by 4 per cent with 7.60-15 tires.

Quantities increase by 50 per cent with H2672B 24-cell plate, decrease 50 per cent with H2825B 16-cell plate.

H3102B and H2825B require P671B bottom plate for combination corn and cotton cans.

H2672B requires P2498B bottom plate for combination corn and cotton cans.

* 7- and 9-tooth sprockets are available as special equipment.

SOYBEANS**(Gauge-Wheel Drive; 6.70-15 Tires; H1255B 20-Cell Plate with Standard Bottom Plate)**

Driving Sprocket	Driven Sprocket	Inches Ground Travel Per Plate Revolution	Plate Revolutions Per Acre	Pounds Per Acre Planted	
				38-Inch Rows	40-Inch Rows
12-tooth	6-tooth	101	1549	102	97
12-tooth	* 7-tooth	118	1355	89	85
12-tooth	8-tooth	134	1162	76	72
12-tooth	* 9-tooth	151	1036	67	65
8-tooth	6-tooth	151	1036	67	65
12-tooth	10-tooth	168	931	61	58
8-tooth	8-tooth	202	774	51	48
8-tooth	10-tooth	252	620	41	39
6-tooth	8-tooth	269	582	38.5	36
* 9-tooth	12-tooth	269	582	38.5	36
8-tooth	12-tooth	302	518	34	32
6-tooth	10-tooth	336	466	30	29
* 7-tooth	12-tooth	353	402	30	28.5
6-tooth	12-tooth	403	388	26	24

NOTE: Quantities decrease by 4 per cent with 7.60-15 tires.

Quantities increase by 50 per cent with H2527B 20-cell plate.

H2527B requires P1583B bottom plate with groove side up in corn and cotton cans.

* 7- and 9-tooth sprockets are available as special equipment.

DRILLING DISTANCES WHEN USING CELL PLATES
(Gauge-Wheel Drive; 6.70-15 Tires)

Driving Sprockets	Driven Sprocket	Inches Ground Travel Per Plate Revolution	Plate Revolutions Per Acre	Drilling Distances in Inches		
				8-Cell	16-Cell	24-Cell
12-tooth	6-tooth	101	1549	11	5.7	3.8
12-tooth	* 7-tooth	118	1355	13	6.7	4.5
* * 12-tooth	* * 8-tooth	134	1162	15	7.6	5.0
12-tooth	* 9-tooth	151	1036	17	8.6	5.7
8-tooth	6-tooth	151	1036	17	8.6	5.7
12-tooth	10-tooth	168	931	19	9.5	6.4
8-tooth	* 7-tooth	176	904	20	10.0	6.7
8-tooth	8-tooth	202	774	23	11.4	7.6
* 7-tooth	8-tooth	235	678	27	13.3	8.6
8-tooth	10-tooth	252	620	29	14.2	9.5
* 9-tooth	12-tooth	269	582	30	15	10
6-tooth	8-tooth	269	582	30	15	10.1
8-tooth	12-tooth	302	518	34	17	11.4
6-tooth	10-tooth	336	466	38	19	12.6
* 7-tooth	12-tooth	353	402	40	20	13.3
6-tooth	12-tooth	403	388	46	22.8	15

NOTES: Distances increase by 4 per cent with 7.60-15 tires.

* * Recommended for cotton cans with picker wheel.

Always use 8-tooth driven sprocket on drive from gauge wheel.

* 7- and 9-tooth sprockets are available as special equipment.

PLANTING FORMULA FOR USE IN COMPUTING CORN POPULATION PER ACRE

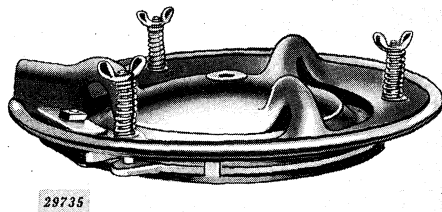
2504.52 inches (length of one row in square acre) divided by drilling distance equals seed per row.

Divide 2504.52 by row spacing to obtain rows per acre.

Multiply seeds per row times rows per acre to obtain seed population per acre.

SPECIAL CORN AND COTTON CAN EQUIPMENT

Fine Seed Attachment



The fine seed attachment (BB10532) is available for planting small vegetable and grass seed. It has a machined false ring and seed plate that are held tightly together with three springs and thumb nuts. A rubber gasket fits around the edge of the cut-off plate between the plate and the hopper. The attachment is held in the hopper with the same thumbscrew as that used with the regular cut-off.

Pea or Bean Attachment

This attachment (2421B and BB10522) consists of combination corn and bean cut-off, bean hopper, and regular bean plates.

To install, remove the corn cut-off or cotton spider from the hopper, whichever may be installed at the time. Remove the false ring P2386B.

Unscrew the stud bolt which holds the combination rear ring and blank plate in place. Remove these two parts.

Select the desired combination gear ring and bean plate and secure it in place with the stud bolt. Install the false ring P2386B. Place the desired corn plate in position. Install the combination corn and bean cut-off with bean hopper attached, fitting it down over the cut-off stop near the bottom and flush against the false plate. Secure it in place with the thumbscrew.

The cells in the bean and corn plates have been spaced to give as close as possible an alternating drop. If the planter is to plant beans and corn alternately in the rows, it is necessary that the bean plate and corn plate have the same number of cells. If plates with an odd number of cells, such as three or five, are being used, and the planter does not alternate properly, remove the corn plate, turn it one-half turn and reinstall.

Shelled Peanut Attachment

This attachment (BB10537) is used for planting shelled peanuts. A baffle plate supports most of the weight of the seed, and a lighter spring is used in the cut-off plate.

Unshelled Peanut Attachment

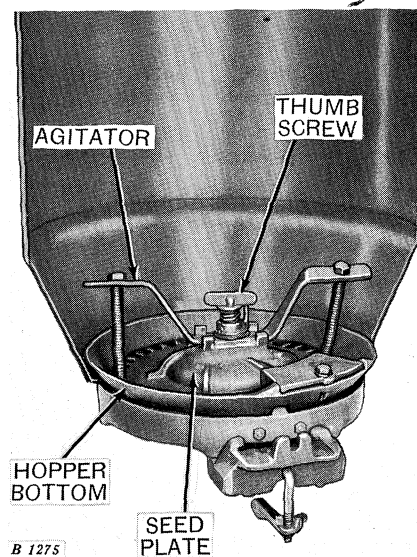
The unshelled peanut attachment (BB10518) is used for planting peanuts in the shell. Directions for installing are furnished with the attachment.

Brush Cut-off and Baffle Plate

This attachment (BB10539) is used for planting fragile seeds such as castor beans. The baffle plate supports most of the weight of the seed and reduces seed damage.

Cell-Drop Cotton Planting Attachment

The cell-drop cotton planting attachment (BB10947) is designed primarily for planting mechanically delinted cotton seed.



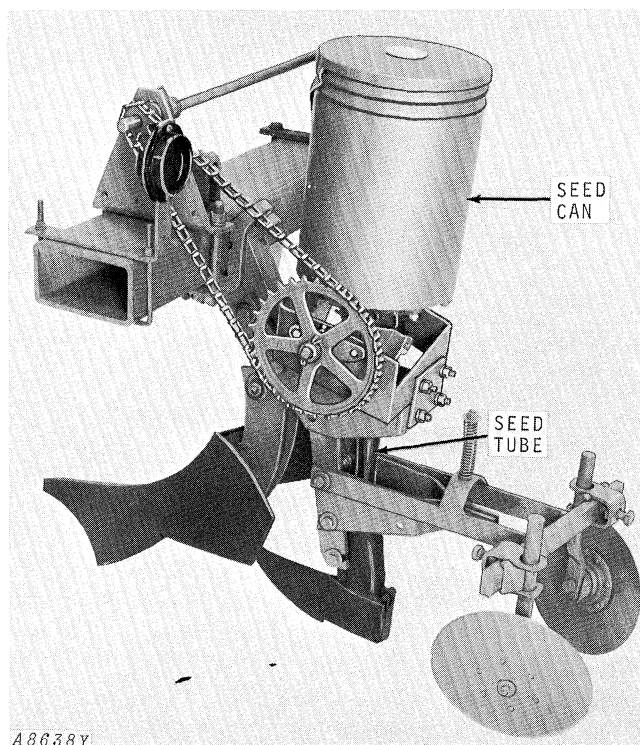
Three seed plates are available:

48-cell	AB 12536	(for Mechanically Delinted Seed)
32-cell	AB 12535	(for Lint (Fuzzy) Seed)
24-cell	AB 13010	(for Mechanically Delinted Seed)

These plates are not shipped with the attachment and must be ordered separately. Installation instructions are shipped with the attachment.

MAIZE SEED CAN

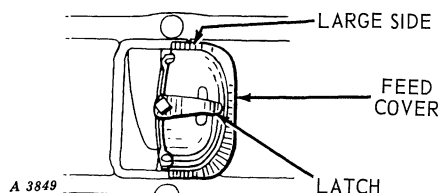
(Optional Equipment for PA840 and PA860 Series Planting Attachments)



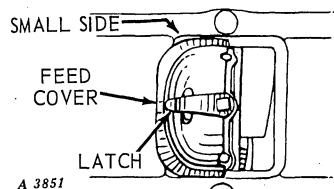
Maize seed cans have large capacity and are equipped with double-run feeds, permitting the planting of maize, soybeans, acid-delinted cotton seed, and other seeds that normally may be planted with a grain drill.

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.

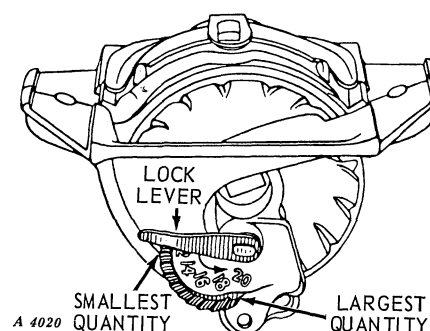


Cover small side of feed wheel when using large side as illustrated above.

To change the cover from the large side of the feed wheel to the small 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.

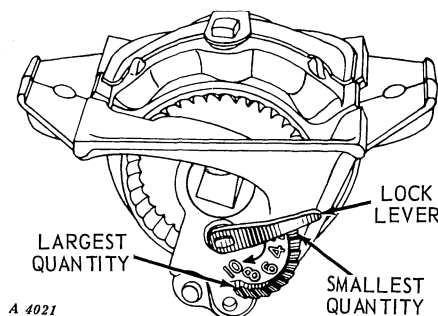
Feed Gates

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 12 and 13.



Large Side of Feed Wheel

The large side of the feed wheel is used for large quantities of seed.



Small Side of Feed Wheel

The small side of the feed wheel is used for small quantities of seed.

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.

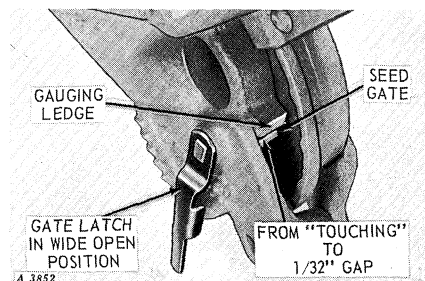
MAIZE SEED CAN—Continued

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 screwdriver or other tool under seed gate to hold it tight against the gauging ledge and bend gate latch to the wide-open notch or position.



Pounds of Seed Per Acre

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

PLANTING CHART FOR MAIZE SEED CAN

PLANTING MAIZE (6.70 - 15 Gauge Wheel Tires)

Row Width	Driving Gauge Wheel Sprocket	Driven Drive-shaft Sprocket	Driving Drive-shaft Sprocket	Driven Seed Can Sprocket	Seed Can Shaft Rev. per Acre	Position of Lock Lever				
						6	7	8	9	10
						Pounds Per Acre				
40	12	12	7	30	416	3.20	4.24	5.20	6.23	7.15
40	12	10	7	30	500	3.84	5.08	6.23	7.49	8.58
40	12	8	7	30	625	4.80	6.36	7.80	9.36	10.73
40	12	6	7	30	832	6.39	8.48	10.40	12.47	14.30
38	12	12	7	30	439	3.37	4.46	5.47	6.57	7.52
38	12	10	7	30	528	4.04	5.36	6.57	7.88	9.04
38	12	8	7	30	661	5.05	6.70	8.21	9.85	11.29
38	12	6	7	30	880	6.74	8.93	10.94	13.13	15.06

PLANTING CHART FOR MAIZE SEED CAN

PLANTING ACID-DELINTED COTTON (6.70 - 15 Gauge Wheel Tires)

Row Width	Driving Gauge Wheel Sprocket	Driven Drive-shaft Sprocket	Driving Drive-shaft Sprocket	Driven Seed Can Sprocket	Seed Can Shaft Rev. per Acre	Position of Lock Lever									
						11	12	13	14	15	16	17	18	19	20
						Pounds Per Acre									
40	12	12	7	30	416	8.4	9.0	9.3	10.4	10.8	12.3	14.0	15.8	17.5	19.0
40	12	10	7	30	500	10.0	10.6	11.0	12.0	12.9	14.8	16.7	19.0	21.0	22.8
40	12	8	7	30	625	12.5	13.3	13.8	15.0	16.1	18.6	21.0	23.8	26.2	28.7
40	12	6	7	30	832	16.7	17.9	18.7	20.8	21.6	24.7	28.0	31.6	35.0	38.0
38	12	12	7	30	439	8.7	9.3	9.6	10.5	11.4	13.0	14.7	16.7	18.4	20.1
38	12	10	7	30	528	10.6	11.2	11.6	12.6	13.7	15.6	17.7	20.1	22.0	24.3
38	12	8	7	30	661	13.2	14.0	14.4	15.5	17.1	19.8	22.2	25.2	27.7	30.4
38	12	6	7	30	880	17.5	18.7	17.8	21.0	22.8	26.1	29.5	33.4	36.8	40.3

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.

RAISING AND LOWERING

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

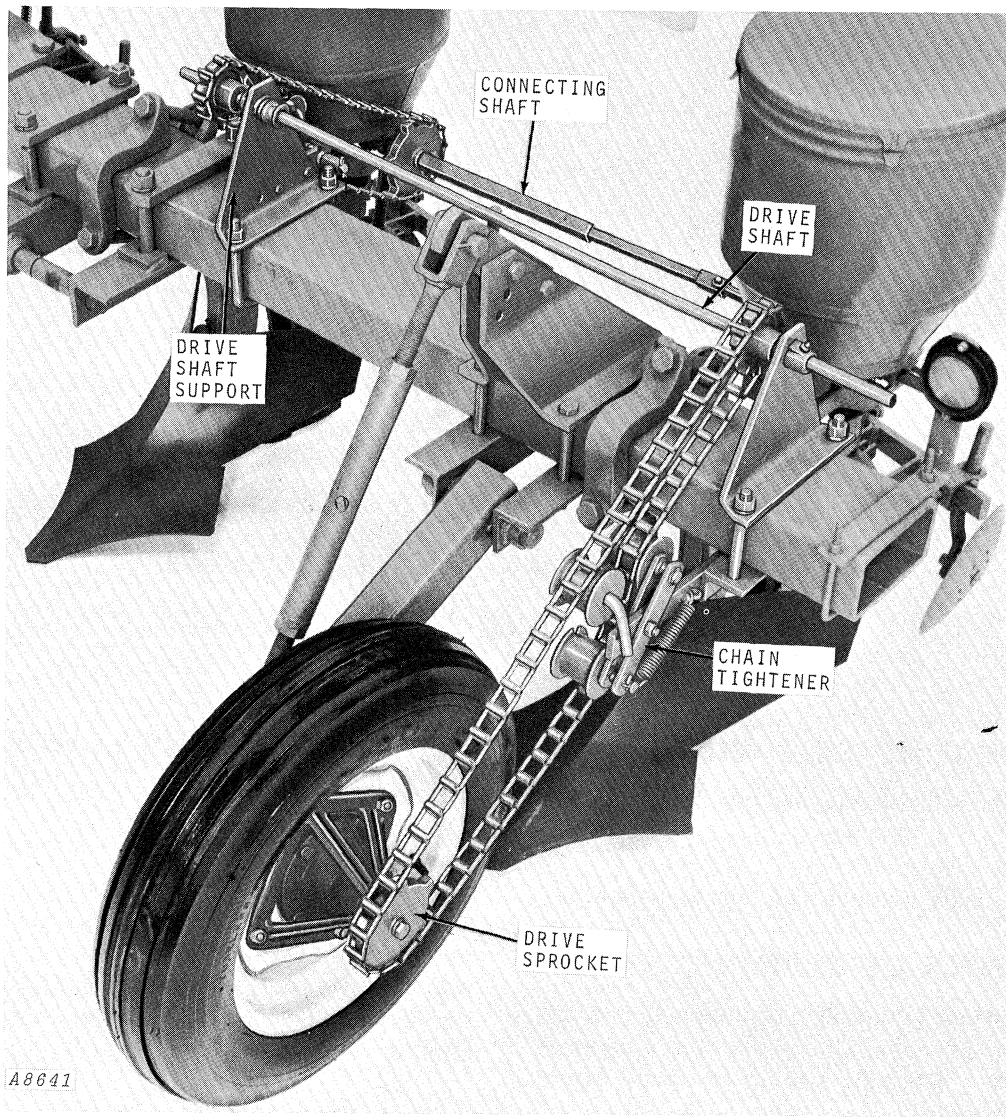
When the bedder is equipped with gauge wheels, position the rockshaft control lever when planting to release hydraulic pressure from the rockshaft. This will allow the rockshaft to vary its up and down position automatically as the planting attachment follows ground contours.

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.

GAUGE WHEEL DRIVE

Gauge Wheels In Front of Bar and Directly Ahead of Bottoms or Sweeps

F884 Bedder



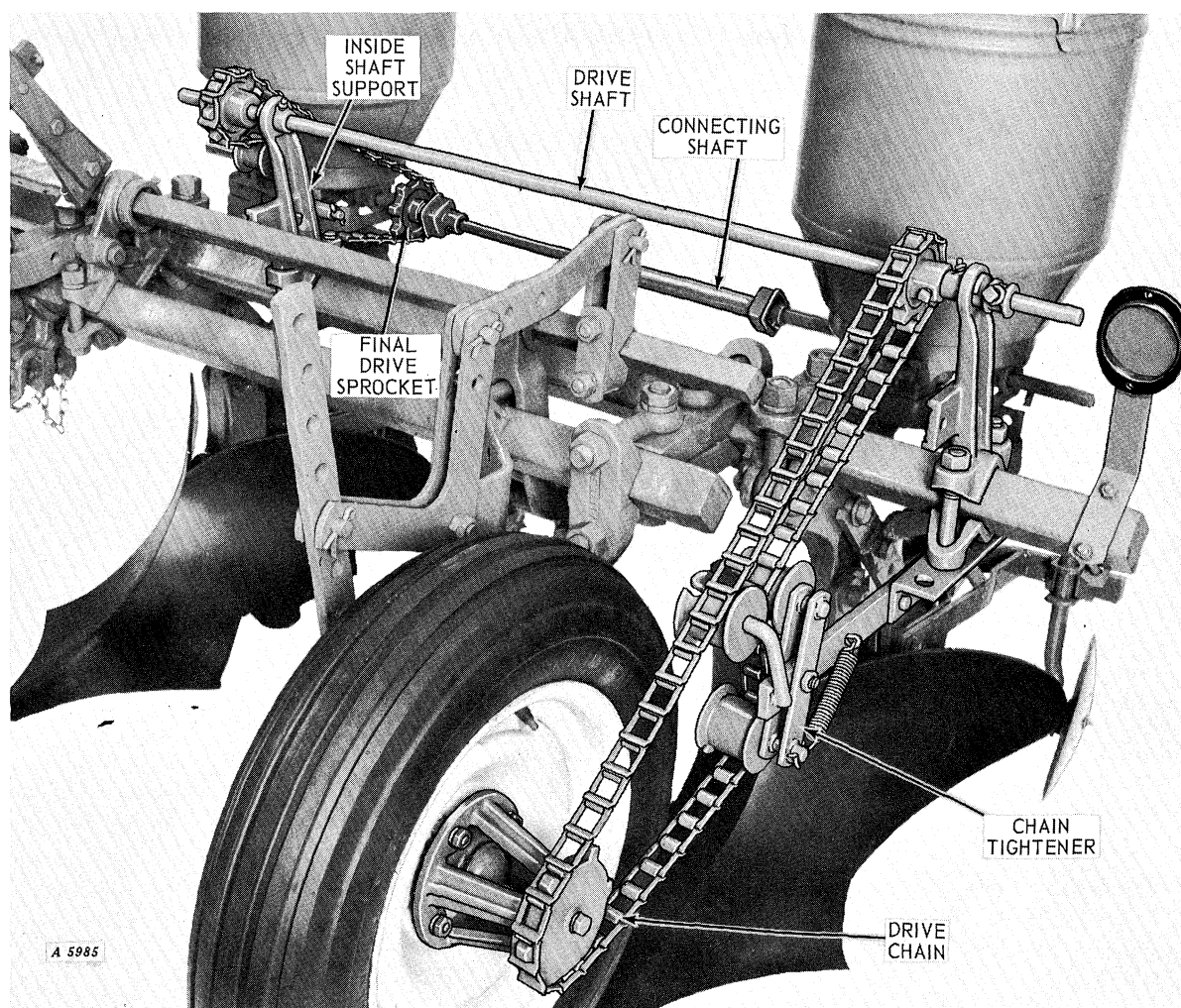
F884 Bedder with PA844 Planting Attachment (Left Side Illustrated)

When using a PA824 (2-Row) Planting Attachment on an F884 Bedder, the final drive sprocket and chain drives the right-hand seed can. A connecting shaft is used to transmit the drive to the left-hand seed can. The gauge wheels must be positioned to the outside of the lister bottoms.

On the 4-row attachments the final drive sprocket and chain drives the inside seed cans. A connecting shaft is used for both the right and left-hand sides to drive the outside cans.

The gauge wheels run directly ahead of the outside bottoms.

F871 Bedder



When gauge wheels are used to drive the planting attachments on the F871 Bedders, shaft supports must be attached with the offset toward the front.

On the 2-row attachment, the final drive sprocket and chain drives the right-hand seed can. A connecting shaft is used to transmit the drive to the left-hand can.

On the 4-row attachments, the final drive sprocket and chain drives the inside seed cans. A connecting shaft is used for both the right and left-hand sides to drive the outside cans.

On 4-row bedders, gauge wheels may be run directly in front of the outside bottoms as illustrated above, or to the outside of the lister bottoms.

Running gauge wheels to the outside of the lister bottoms is limited to bedders with 12-1/2-foot front bar and 14-foot or longer rear bar. This gauge-wheel position is also limited to 36-, 38-, or 40-inch row settings.

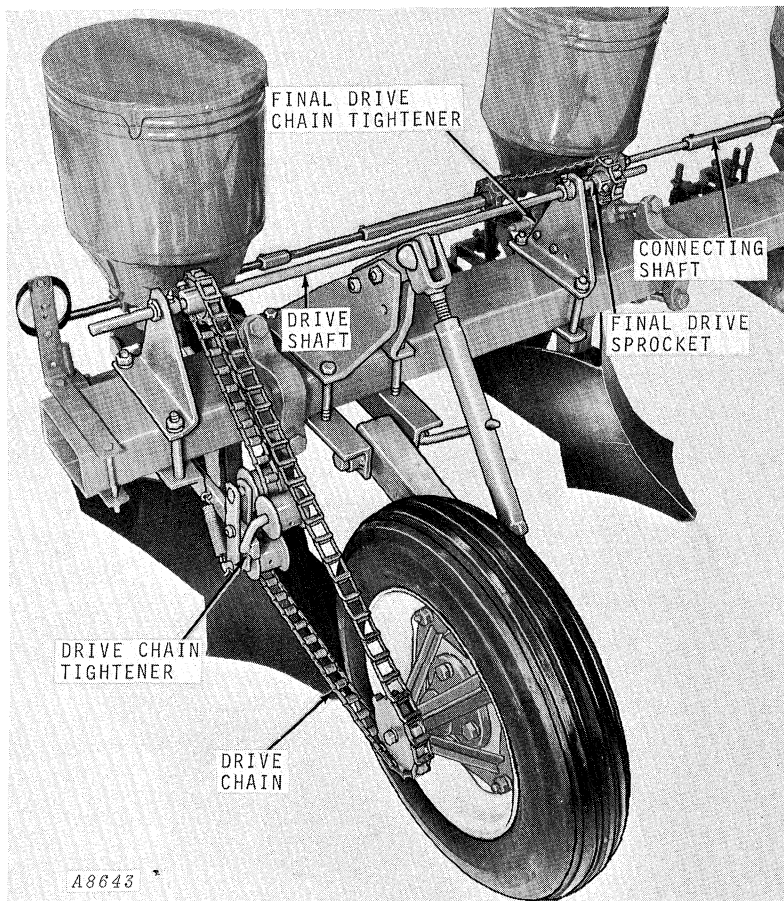
To run the gauge wheels to the outside of the lister bottoms, move all drive parts toward the ends of the bedder bar. Change the chain tightener brackets so the right-hand bracket is used on the left-hand outside shaft support and the left-hand bracket is used on the right-hand outside shaft support. Install final drive gears and sprockets to the inside of the outside seed cans.

NOTE: Check all drive parts to be sure parts do not bind.

GAUGE WHEEL DRIVE—Continued

Gauge Wheels In Front of Bar and Directly Ahead of Bottoms or Sweeps—Continued

F886 Bedder



Right Side Illustrated

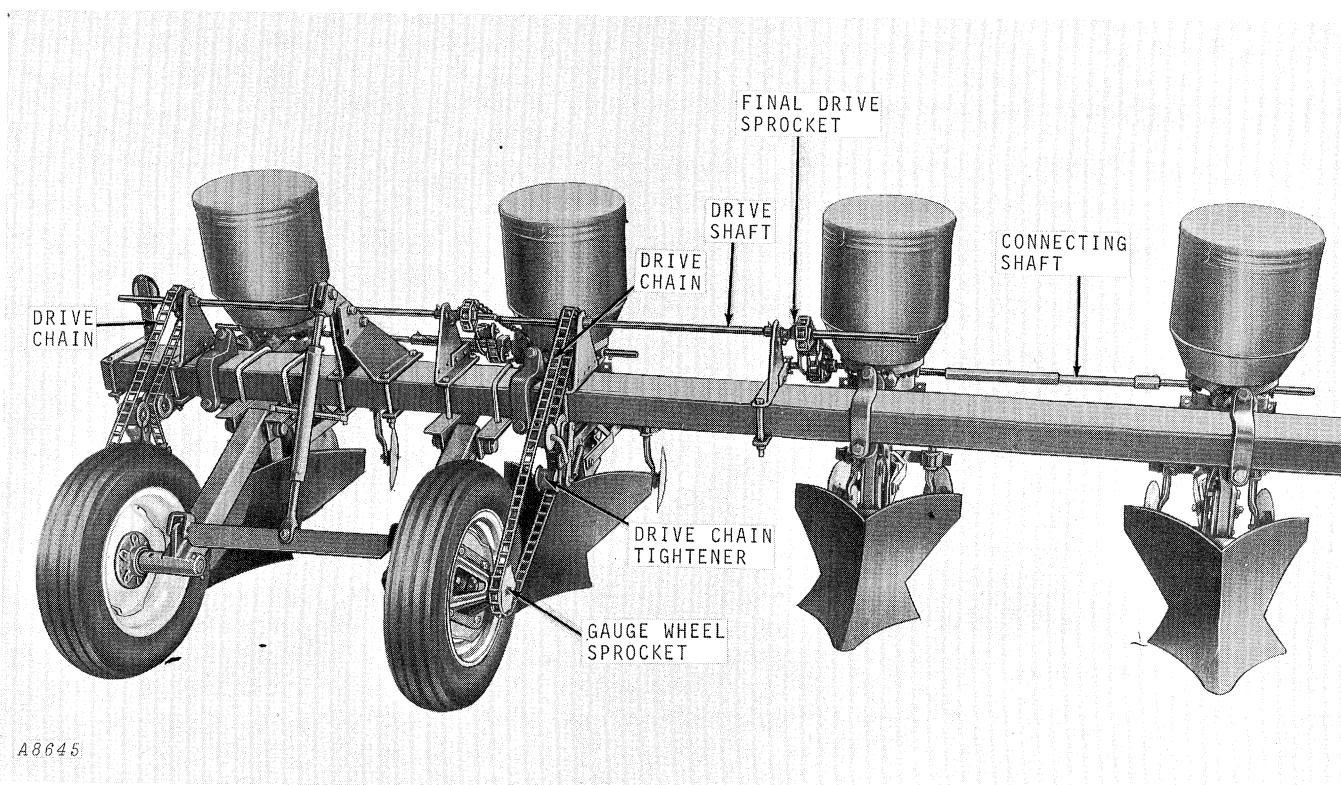
The drive is transmitted from the gauge wheel to the center seed can through the gauge wheel sprocket, drive shaft, final drive sprocket and driven sprocket by means of the drive chain and final drive chain. Connecting shafts are used to transmit the drive to the outside seed can and to the inside seed can.

The drive chain tightener is attached to the support angle under the bedder bar.

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

Dual Gauge Wheels in Front of Bar and Directly Ahead of Bottoms or Sweeps

F888 Bedder



Right Side Illustrated

Each gauge wheel drives two seed cans.

The drive is transmitted from the gauge wheel to the seed can through the gauge wheel sprockets, drive shaft, final drive sprocket and driven sprocket by the drive chain and final drive chain. A connecting shaft is used to transmit the drive to the outside seed

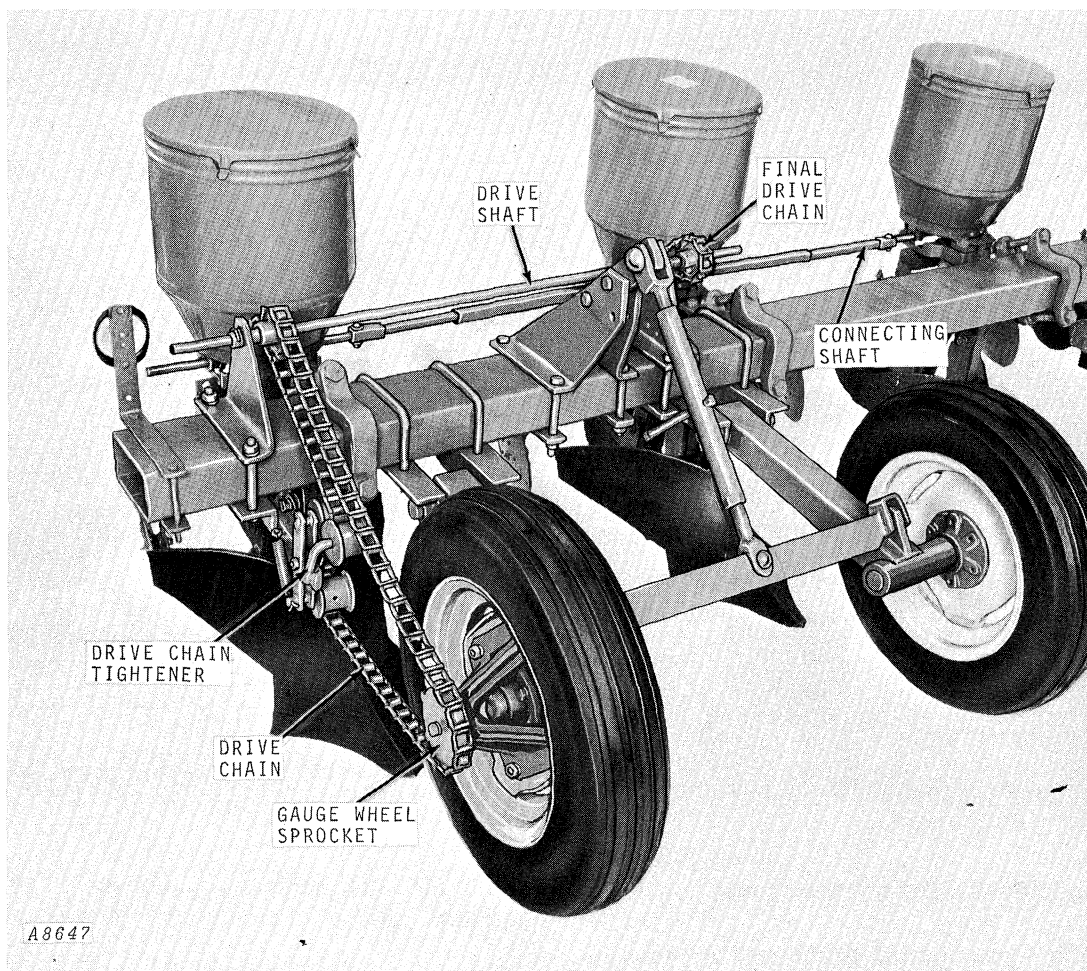
can of the outer units and to the inside can of the inner units.

The drive chain tightener is attached to the support angle under the bedder bar.

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

GAUGE WHEEL DRIVE—Continued

Dual Gauge Wheels In Front of Bar and Directly Ahead of Bottoms or Sweeps—Continued F886 Bedder



Right Side Illustrated

When dual gauge wheels are used in front of the bedder bar, they must be positioned directly ahead of the bottoms or sweeps.

The drive is transmitted from the outside gauge wheel to the middle seed can through the gauge wheel sprocket, drive shaft, final drive sprocket, and driven sprocket by means of the drive chain and final drive chain. Connecting shafts are used to transmit

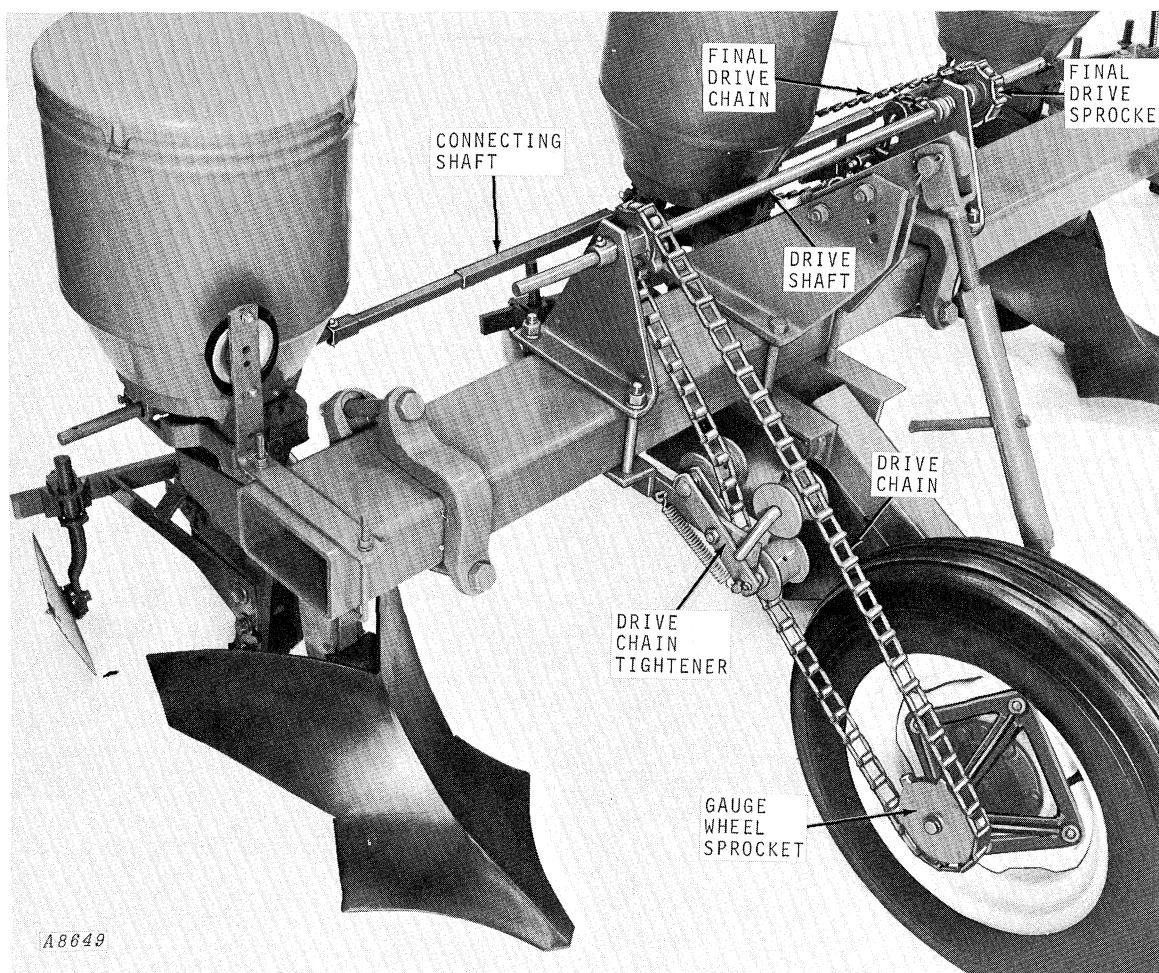
the drive from the middle seed can to the inside and outside seed cans.

The drive chain tightener is attached to the support angle under the bedder bar.

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

Gauge Wheels In Front of Bar and Between Bottoms or Sweeps

F886 Bedder



Right Side Illustrated

The drive is transmitted from the gauge wheel to the center seed can through the gauge wheel sprocket, drive shaft, final drive sprocket and driven sprocket by means of the drive chain and final drive chain. Connecting shafts are used to transmit the drive to the outside seed can and to the inside seed can.

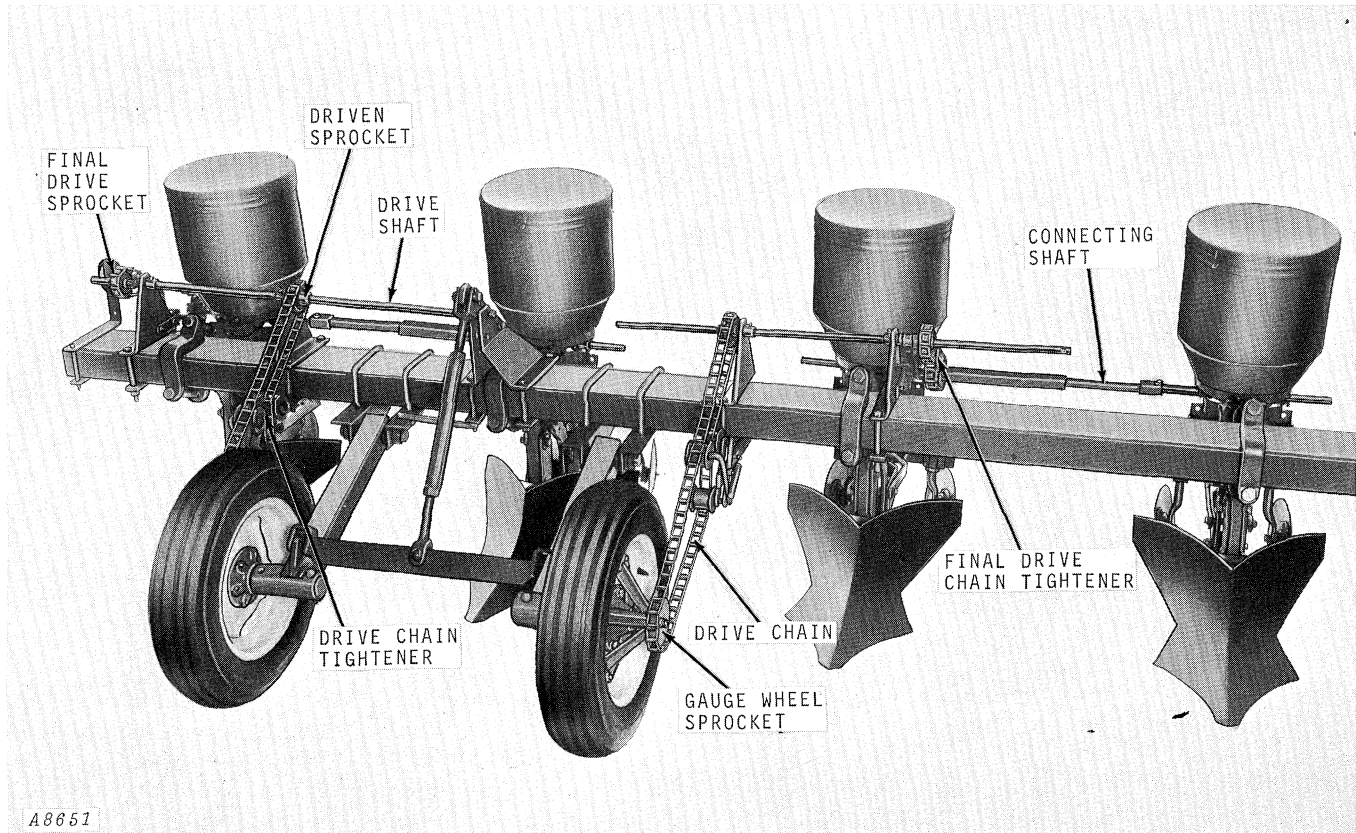
The drive chain tightener is attached to the support angle under the bedder bar.

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

GAUGE WHEEL DRIVE—Continued

Dual Gauge Wheels In Front of Bedder Bar and Between the Bottoms or Sweeps—Continued

F888 Bedder



Right Side Illustrated

Each gauge wheel drives two seed cans.

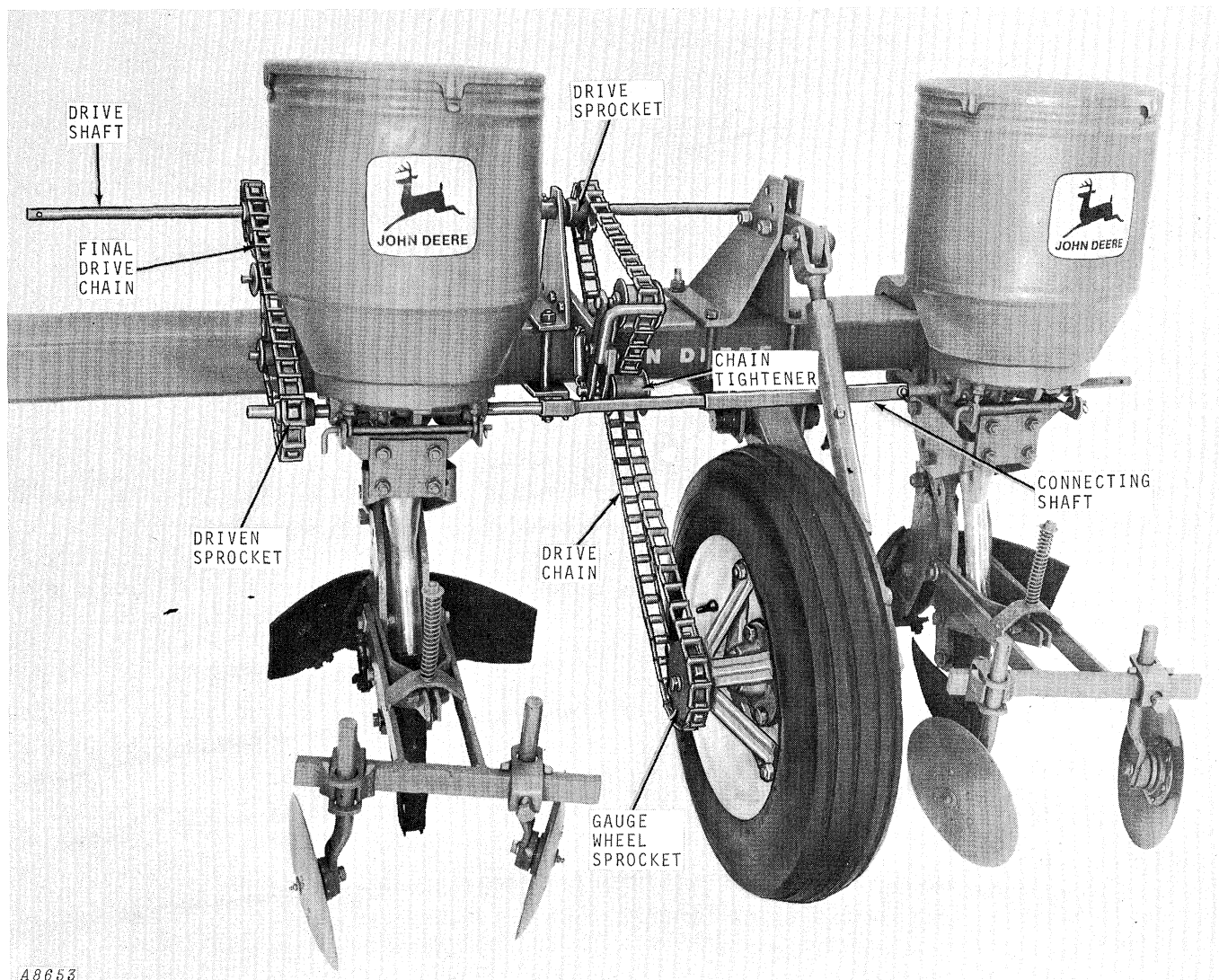
The drive is transmitted from the gauge wheel to the seed can through the gauge wheel sprockets, drive shaft, final drive sprocket and driven sprocket by the drive chain and final drive chain. A connecting shaft is used to transmit the drive to the inside seed can of both the outer and inner units.

The drive chain tightener is attached to the support angle under the bedder bar.

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

Gauge Wheels to Rear of Bar

F884, F886, and F888 Bedders



A8653

Right Side Illustrated

The turnbuckle-adjusted gauge wheels can be positioned to drive the planting attachments from the rear of bedder bar.

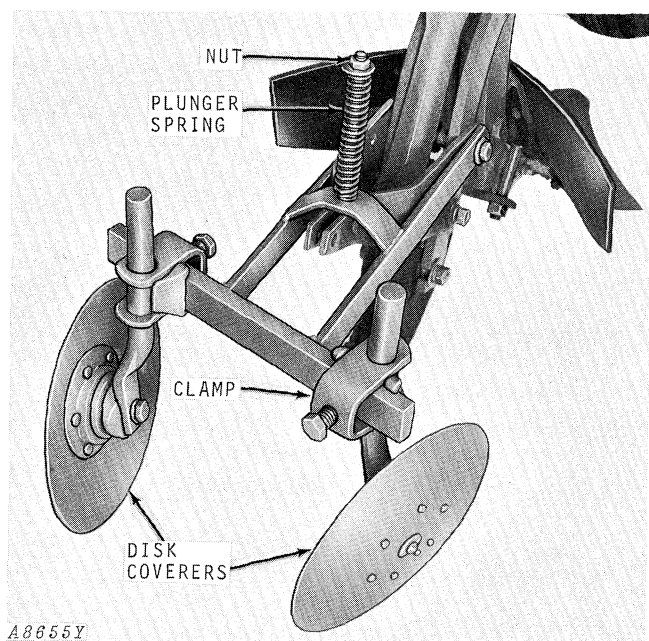
The drive is transmitted from the gauge wheel to the center seed can through the gauge wheel sprocket, drive shaft, final drive sprocket, and driven sprocket by means of the drive chain and final drive

chain. Connecting shafts are used to transmit the drive to the outside seed can and to the inside seed can.

The drive chain tightener is attached to the shaft support above the bedder bar.

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

COVERING FRAME AND DISK COVERERS



A8655Y

The planting attachment is regularly equipped with disk coverers but shovel or knife coverers may be ordered as optional equipment. The coverers throw loose soil over the seed after it has been deposited in the soil.

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

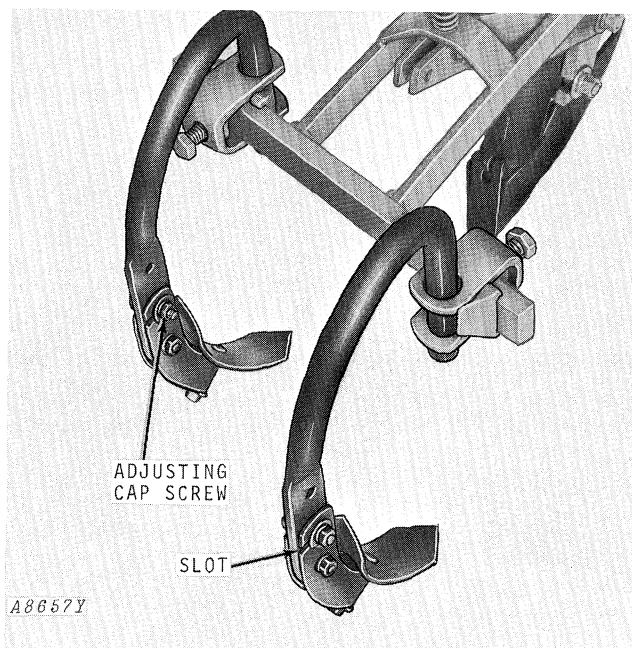
SHOVEL COVERERS (Optional Equipment)

Shovel coverers are particularly effective in areas where scouring of the disk coverer is a problem.

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.

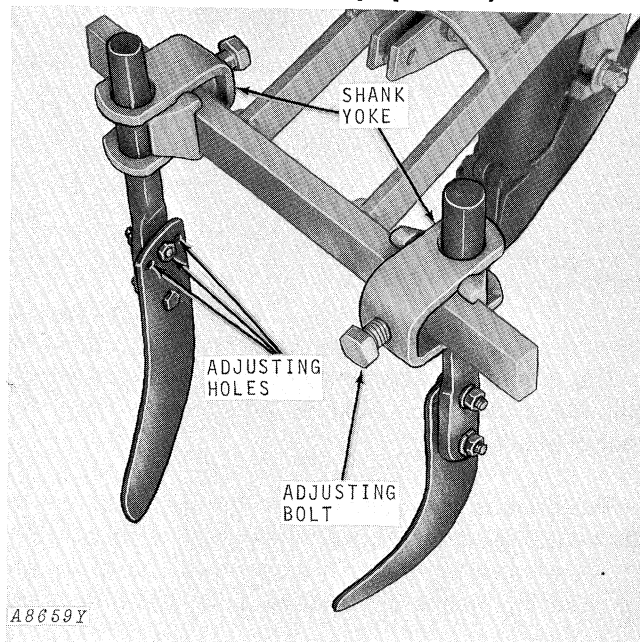


A8657Y

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 into proper position, and tighten nut for proper tripping resistance.

KNIFE COVERERS (Optional Equipment)



A8659Y

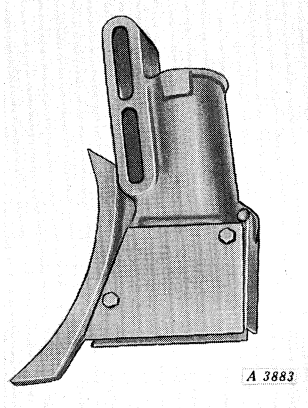
The knife coverer is primarily used in well-conditioned soils.

There are three adjusting holes in the blade of the coverer so blade may be tilted at different angles. The knife also may be adjusted for depth by loosening the adjusting bolt and nut and moving the coverer shank up or down in the shank yoke.

SUBSOILERS

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

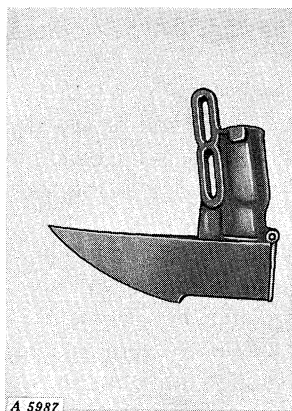
Subsoiler With Reversible Point



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

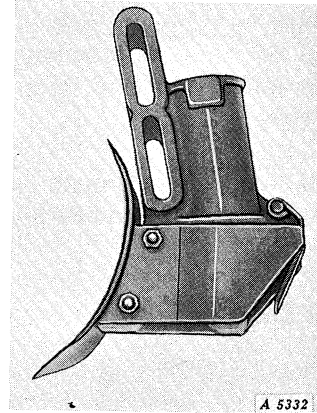


This subsoiler is equipped with a runner opener for use in rocky soils. The seed boot is long and permits adjustment for deep operation. The runner is narrow, has tapered sides and is equipped with an integral baffle to resist plugging.

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.

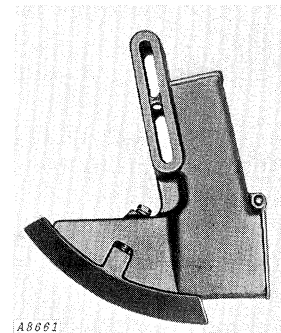
Subsoiler With Reversible Shovel



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 Precision Seed Boot Runner



This subsoiler is equipped with a reversible cast runner.

The streamlined seed boot will reduce the build-up of trash. Due to the "V" shaped trench, the seeds are placed in a straight line at a uniform depth and in firm soil for better contact with soil moisture.

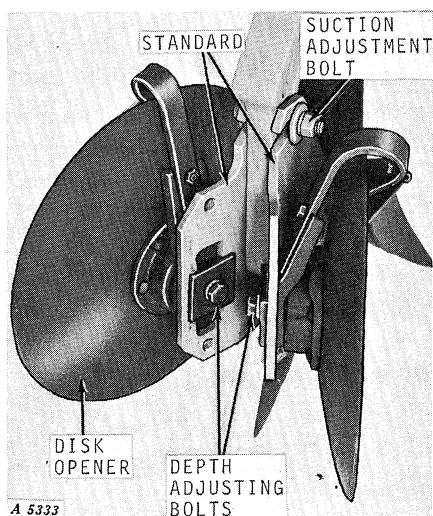
HARD GROUND DISK OPENERS

The fixed-angle hard ground opener is regular equipment on the PA842 and PA862 Planting Attachments. It also is available as special equipment for use with the PA844 and PA864 Planting Attachments.

The fixed-angle hard ground opener also is available as special equipment to convert a PA843 to a PA842 Planting Attachment and PA863 to a PA862 Planting Attachment.

The adjustable-angle hard ground opener is available as optional equipment on PA842 and PA862 Planting Attachments.

Fixed-Angle Disk Openers

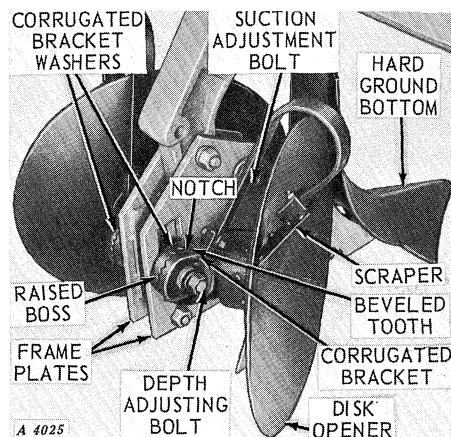


The hard ground disk opener and standard is regular equipment. The angle of the disks are fixed. No adjustment necessary.

The disks can be raised or lowered by loosening the depth adjusting bolts and allowing the entire unit to be raised or lowered in the slots in the standards.

The suction of the bottom can be varied slightly by loosening the suction adjustment bolt in the standards and moving standards forward or back in the slots of the standards. Be sure to tighten bolt securely after making suction adjustment.

Adjustable Angle Disk Opener



The adjustable angle hard ground disk openers have corrugated bracket washers and corrugated brackets which permit the angle of the disks to be changed. *NOTE: The corrugated bracket washer must be turned so the raised boss is to the rear. See illustration above.*

The corrugated bracket washer has a notch that is deeper than the other notches. The corrugated bracket has one tooth that is beveled. With the raised boss to the rear, the deeper notch will be on top.

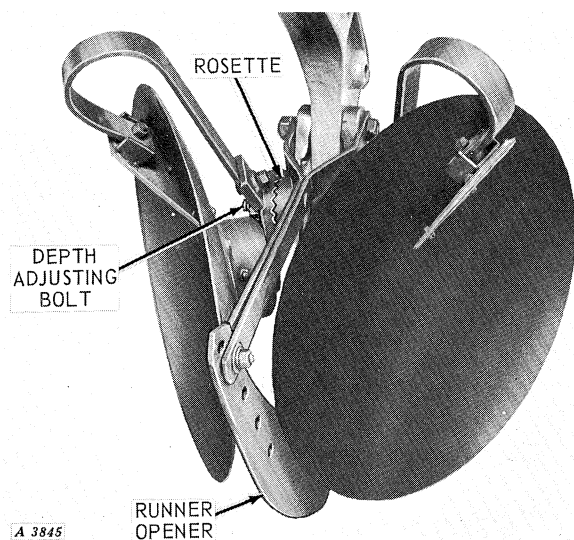
Adjust the bracket so the beveled tooth and the deeper notch mesh. This is the initial setting.

If additional adjustment is desired, loosen bolt and rotate corrugated disk bracket to the desired setting. Tighten bolt.

The disks can be raised or lowered by loosening the depth adjusting bolt and allowing the entire unit to be raised or lowered in slots in the frame plates.

The suction of the bottom can be varied slightly by loosening the suction adjustment bolt in the covering frame plates and moving frame forward or back in slotted holes of frame. Be sure to tighten bolt securely after making suction adjustment.

LOOSE GROUND DISK OPENER (Optional Equipment)

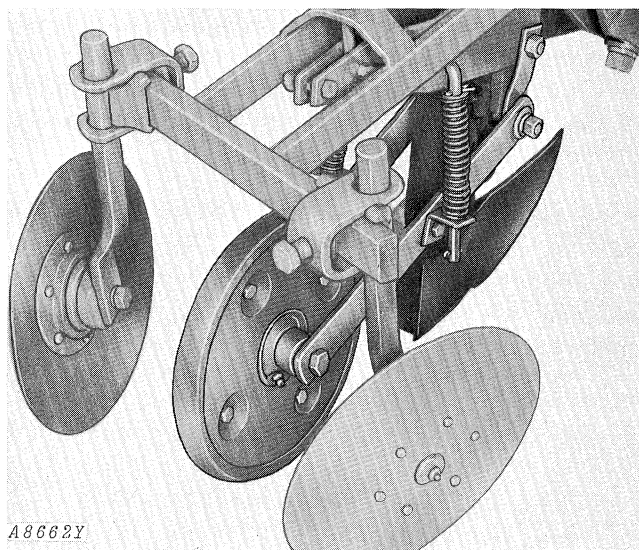


A runner opener and support are available to convert a hard ground opener into a loose ground opener. When converting to a loose ground opener remove the bottom, frame plates, and subsoiler.

The loose ground opener has a corrugated disk bracket which permits changing the disk angle for various types of furrows.

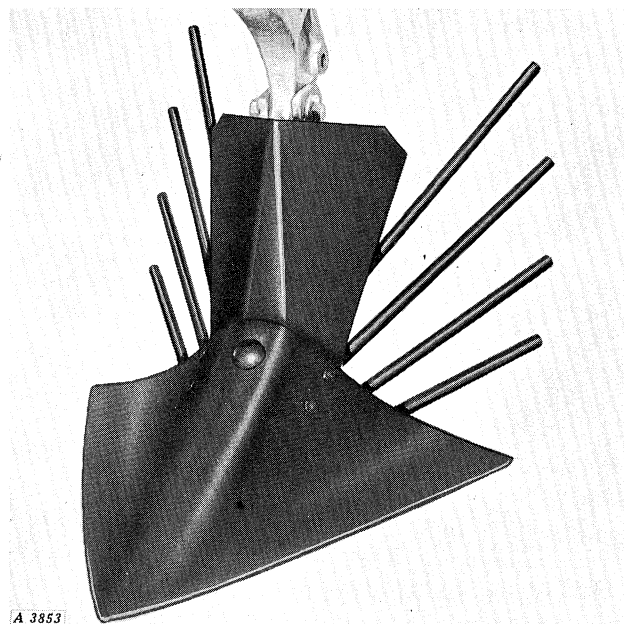
The depth of the openers can be adjusted by loosening the depth adjusting bolts and moving the entire unit up or down on the covering frame plates.

10 x 1-INCH PRESS WHEEL (Special Equipment)



The 10 x 1-inch rubber-tired press wheel firmly presses the seed ahead of the coverers.

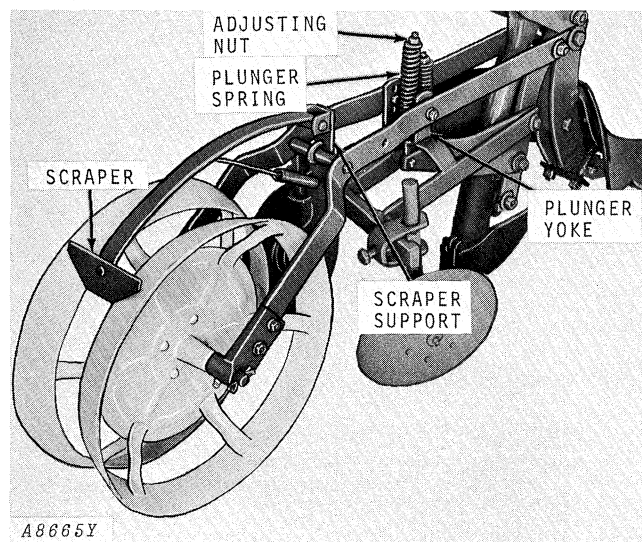
TRASH RODS AND SWEEPS (Optional Equipment)



Trash rods and 22-inch sweeps are available for PA824, PA843, PA844, PA863, and PA864 Planting Attachments in lieu of lister bottoms.

Trash rods and sweeps provide good trash coverage between beds. Wider seed beds also can be attained.

NO. 8 PRESS WHEEL ATTACHMENT (Special Equipment)



The press wheel firms the soil over the seed.

Adjusting Down Pressure

Down pressure on the press wheel is controlled by the plunger spring and nut shown above. Tighten the nut to increase the down pressure.

Adjusting Height of Wheel

Three holes are provided on each side of the plunger yoke to allow adjustment of the height of the press wheel in relation to the runner opener or subsoiler.

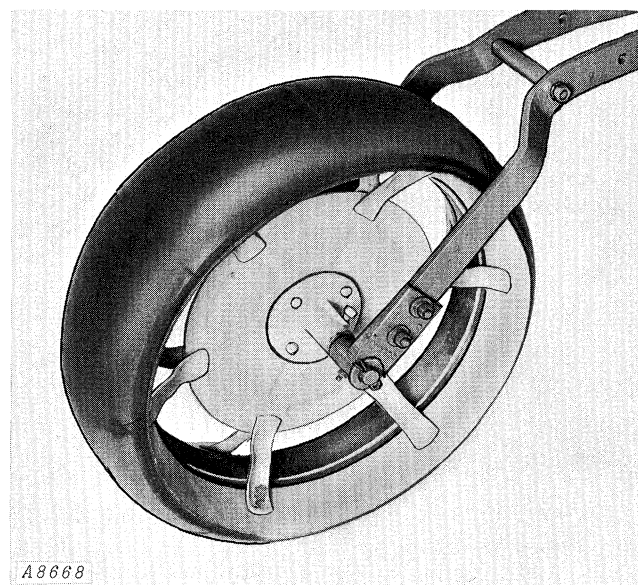
Scrapers

Press wheel scrapers are available to keep the wheels clean if the soil has a tendency to stick to the steel press wheels. The scrapers cannot be used when the press wheel is equipped with a rubber press wheel tire or when the Insecticide Attachment is used.

Set the scraper blade close enough to keep the wheel clean. However, never set the blade so close that it causes friction or keeps the wheels from turning.

To adjust the scraper, loosen nuts on U-bolt and pivot scraper support until desired setting is obtained. Then tighten nuts.

Press Wheel With Rubber Tire



Press Wheel with Smooth Face Tire

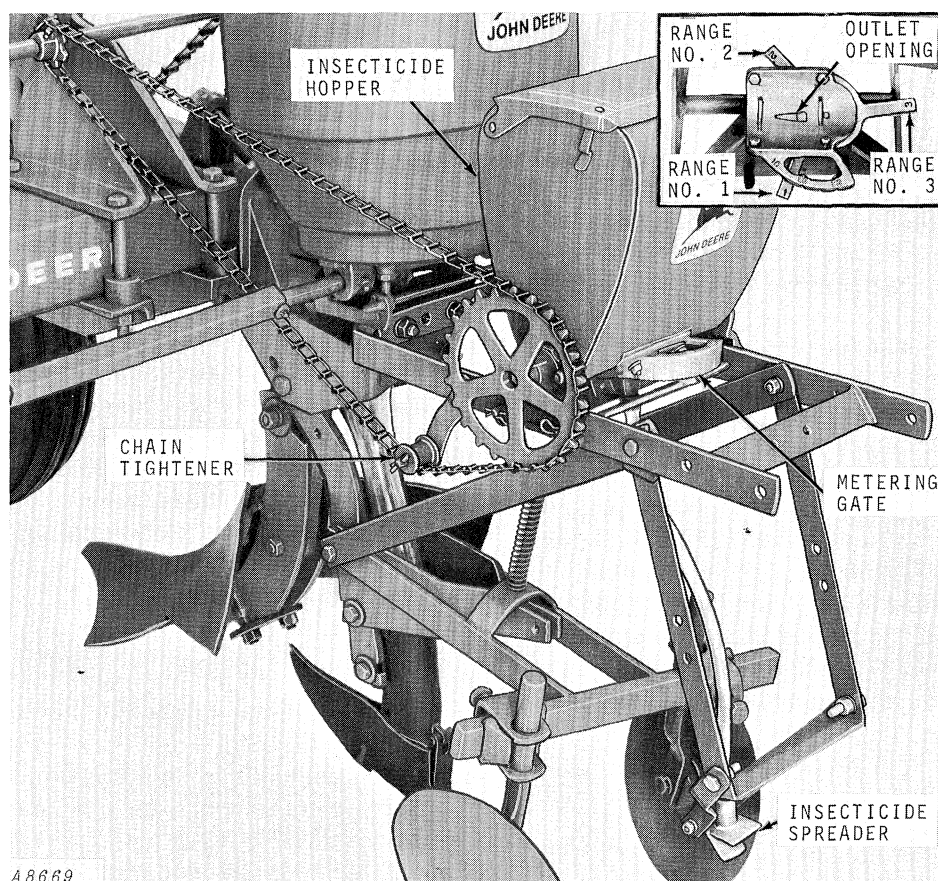
A rubber-tired press wheel is available in lieu of the steel wheel.

A rubber tire which may be mounted on the steel wheel is also available. In wet, sticky soil conditions, where the scrapers do not clean the wheel properly, the flexing action of the semi-pneumatic rubber tire sheds the soil and keeps the wheel cleaner. No scrapers are used with tires.

To attach the rubber tire, remove scraper, if used. Remove cotter pin from press wheel axle. Loosen set screw in press wheel. Drive the axle out through the bearings just far enough to remove the press wheel from the frame.

Attach the rubber tire to the wheel by stretching it over the steel rim much the same as an automobile tire. The tire requires no cement and no air pressure. Attaching the tire is much easier if a tire soap is used on the tire as well as on the steel rim.

INSECTICIDE ATTACHMENT (Special Equipment)



Each insecticide hopper has a capacity of approximately 15 pounds. The unit will apply insecticide in the row with the seed at the time of planting.

Rate of Application

The chemical manufacturer will recommend the rate of application.

Metering Gate

The metering gate on the hopper can be adjusted for range 1, 2, or 3. The delivery rate will increase from range 1 through range 3. To change from one range to another push down slightly on the metering gate and rotate it to the desired range.

There are 33 intermediate notches for each range. The delivery rate will increase from notch 1 through notch 33.

Use the metering gate settings in the chart in next column as a **starting point** for distributing with 40-inch row spacing at 5 miles per hour.

METERING GATE SETTING

(Starting Point Only for a 40-inch Row Spacing and a Speed of 5 mph)

Desired Rate of Application	Range	Notch
3 pounds per acre	1	27
4 pounds per acre	1	31
5 pounds per acre	2	1
6 pounds per acre	2	6
7 pounds per acre	2	11
8 pounds per acre	2	16
9 pounds per acre	2	20
10 pounds per acre	2	24

NOTE: For speeds faster than 5 miles per hour use a higher notch setting. For speeds slower than 5 miles per hour use a lower notch setting.

For row spacings less than 40 inches use a higher notch setting.

Set each unit at the desired starting point.

Checking Rate of Application

The rate of application of insecticide is affected by travel speed of the bedder. Select a speed that can be maintained uniformly even when traveling uphill or downhill.

Check the insecticide attachment in the field at planting speed.

The rate of delivery may be affected by a change in temperature, humidity, speed, ground conditions, or by any obstruction in the metering device. Also, large variations may exist in the "flow-ability" of different insecticides or sometimes even within the same insecticide.

Fill the insecticide hoppers. Empty all other hoppers on the bedder.

To check the exact number of pounds of your insecticide that will actually be delivered, proceed as follows:

Attach one of the cloth bags furnished under the outlet of each insecticide hopper. Lower the bedder and drive 80 rods at planting speed. Weigh the insecticide (in ounces) that was caught in one cloth bag. Multiply that amount by the number of rows per acre as shown below and divide that amount by 16.

Check the insecticide caught in each cloth bag in the same manner.

NUMBER OF 80-ROD ROWS PER ACRE

Row Width	No. of Rows	Row Width	No. of Rows
40"	10	32"	12.5
38"	10.5	30"	13.3
36"	11.1	28"	14.3
34"	11.8	26"	15.4

EXAMPLE: There are approximately ten 40-inch rows, 80 rods long, per acre. If the amount of insecticide caught in one cloth bag (one-row) was 4.8 ounces, multiply 4.8 times 10 (number of rows), which is 48 ounces. Then divide 48 ounces by 16 and the result will be 3 pounds per acre.

If the desired pounds per acre is not obtained for each unit with the first setting, adjust the metering gate and repeat the check until desired amount is delivered.

Field Operation

While planting, protect against improper application by frequent checks and necessary adjustment of the metering gates on the hoppers.

A slight amount of insecticide may be discharged through the hopper opening when the bedder is stopped or when turning at the end of the field. When transporting it may be desirable to close the outlet opening to prevent leakage by setting each metering gate in range 1 and notch 1.

Handling Insecticides

Most insecticides readily accumulate moisture and cause metal to corrode. This corrosion not only shortens metal life but leads to unnecessary expense for parts broken because of binding or "freezing." Deposits of insecticides will build up in the hopper and interfere with working parts. Therefore, the hoppers should be cleaned after every day of use.



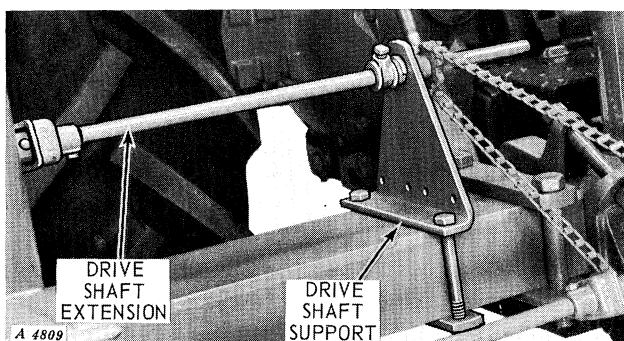
CAUTION: Agricultural chemicals can be dangerous! Improper selection or use can injure persons, animals, plants, soils, or other property. **BE SAFE:** Select the right chemical for the job. Handle and apply it with care. Follow the instructions of the chemical manufacturer.

Cleaning Hoppers

At the end of each day's use, the hoppers should be thoroughly cleaned. Remove the hoppers by removing the pins and spring locking pins.

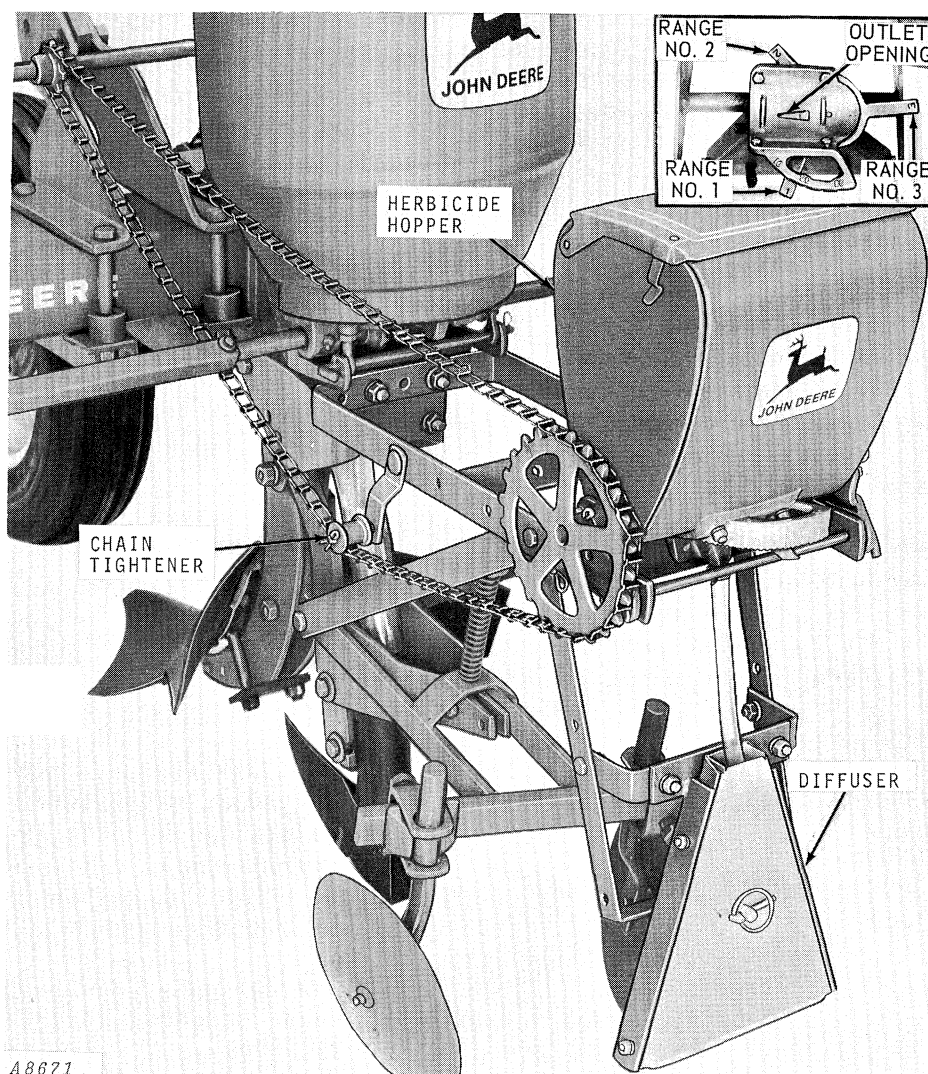
Remove the fluted roller from the hopper by first removing the Quik-Lock pin at the left end of the hopper drive shaft. Remove the spring-loaded pin from the fluted roller. Pull the shaft from the right-hand side of the hopper and remove fluted roller from the hopper. Wash and dry the hopper, outlet opening, and the fluted roller thoroughly.

Drive Parts For F886 Bedder



When the insecticide attachment is used with an F886 6-row Bedder, it is necessary to use a drive shaft extension and an additional drive shaft support to drive the innermost attachment on each side. See illustration above.

HERBICIDE ATTACHMENT (Special Equipment)



A8671

Each granular herbicide hopper has a capacity of approximately 15 pounds. The unit will apply 2 to 30 pounds per acre, in bands 14 inches wide, depending on type of herbicide.

Rate of Application

The chemical manufacturer may recommend the rate of application in the following ways:

1. Pounds per acre for a given band width and row spacing.
2. Pounds per acre for complete (broadcast) coverage.

When the chemical manufacturer recommends pounds per acre for your band width and row spacing, see "Metering Gate," page 30.

When the chemical manufacturer recommends pounds per acre for complete (broadcast) coverage only, it is necessary to find the pounds per acre for your band width and row spacing. This will give you

the approximate pounds to apply to get the same chemical concentration per square inch as the chemical manufacturer recommends for complete (broadcast) coverage.

Use the following formula to find the pounds per acre for your band width and row spacing:

$$A \times \frac{B}{C} = \text{Delivery rate in pounds per acre for a given band width and row spacing}$$

Legend:

- A — Chemical manufacturer's recommended rate in pounds per acre for complete (broadcast) coverage.
- B — Band width.
- C — Row spacing.

EXAMPLE: If the chemical manufacturer recommends 20 pounds per acre for complete (broadcast) coverage, and the band width is 14 inches and row spacing is 40 inches, apply the formula as follows:

$$20 \times \frac{14}{40} = 7 \text{ pounds per acre}$$

HERBICIDE ATTACHMENT—Continued

Therefore, the required delivery rate for 14-inch bands and 40-inch row spacing would be 7 pounds per acre when the chemical manufacturer recommends 20 pounds per acre for complete (broadcast) coverage.

Do not apply larger quantities of herbicide than recommended by the chemical manufacturer.

Metering Gate

The metering gate on the hopper can be adjusted for range 1, 2, or 3. The delivery rate will increase from range 1 through range 3. To change from one range to another push down slightly on the metering gate and rotate it to the desired range.

There are 33 intermediate notches for each range. The delivery rate will increase from notch 1 through notch 33.

Use the following metering gate settings as a starting point for distributing 14-inch bands, with 40-inch row spacing, at 5 miles per hour:

METERING GATE SETTING

(Starting Point Only for a 40-inch Row Spacing and a Speed of 5 mph)

Desired Rate of Band Application	Range	Notch
3.5 pounds per acre	1	23
5 pounds per acre	1	29
6 pounds per acre	1	33
7 pounds per acre	2	4
8 pounds per acre	2	7
9 pounds per acre	2	10
10 pounds per acre	2	13
12 pounds per acre	2	21
15 pounds per acre	2	32

NOTE: For speeds faster than 5 miles per hour use a higher notch setting. For speeds slower than 5 miles per hour use a lower notch setting.

For row spacings less than 40 inches use a higher notch setting.

Set each unit at the desired starting point.

Checking Rate of Application

The rate of application of herbicide is affected by travel speed of the bedder. Select a speed that can be maintained uniformly even when traveling uphill or downhill.

Check the herbicide attachment in the field at planting speed.

The rate of delivery may be affected by a change in temperature, humidity, speed, ground conditions, or by any obstruction in the metering device. Also, large variations may exist in the "flowability" of different herbicides or sometimes even within the same herbicide.

Fill the herbicide hoppers. Empty all other hoppers on the bedder.

To check the exact number of pounds of your herbicide that will actually be delivered, proceed as follows:

Attach one of the cloth bags furnished under each granular herbicide diffuser. Lower the bedder and drive 80 rods at planting speed. Weigh the herbicide (in ounces) that was caught in one cloth bag. Multiply that amount by the number of rows per acre as shown below, and divide that amount by 16.

Check the herbicide caught in each cloth bag in the same manner.

NUMBER OF 80-ROD ROWS PER ACRE

Row Width	No. of Rows	Row Width	No. of Rows
40"	10	32"	12.5
38"	10.5	30"	13.3
36"	11.1	28"	14.3
34"	11.8	26"	15.4

EXAMPLE: There are approximately ten 40-inch rows, 80 rods long, per acre. If the amount of herbicide caught in one cloth bag (one-row) was 11.2 ounces, multiply 11.2 times 10 (number of rows), which is 112 ounces. Then divide 112 ounces by 16 and the result will be 7 pounds per acre.

If the desired pounds per acre is not obtained for each unit with the first setting, adjust the metering gate and repeat the check until desired amount is delivered.

Field Operation

While planting, protect against improper application by frequent checks and necessary adjustment of the metering gates on the hoppers.

A slight amount of herbicide may be discharged through the hopper opening when the bedder is stopped or when turning at the end of the field. When transporting, it may be desirable to close the outlet opening by setting each metering gate in range 1 and notch 1 to prevent leakage.

Handling Granular Herbicide

Granular herbicide absorbs moisture readily. Keep granular herbicide dry. Do not store in a damp place. The granular herbicide attachment must be covered with canvas, plastic, or other suitable waterproof material at night, or during wet weather. If the herbicide is allowed to absorb moisture, the rate of application is greatly affected and it will be necessary to clean the hopper and fluted roller before using.

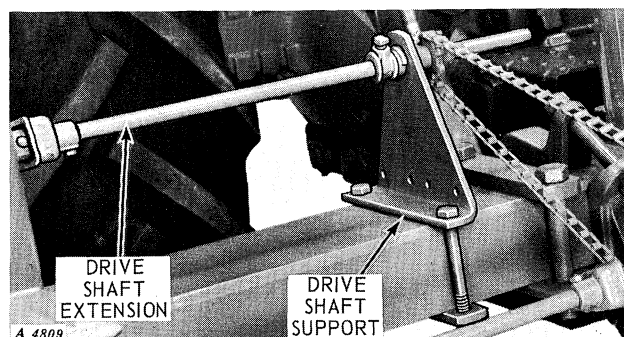
CAUTION: Agricultural chemicals can be dangerous! Improper selection or use can injure persons, animals, plants, soils, or other property. **BE SAFE:** Select the right chemical for the job. Handle and apply it with care. Follow the instructions of the chemical manufacturer.

Cleaning Hoppers

At the end of each day's use, the hoppers should be thoroughly cleaned. Remove the hoppers by removing the pins and spring locking pins.

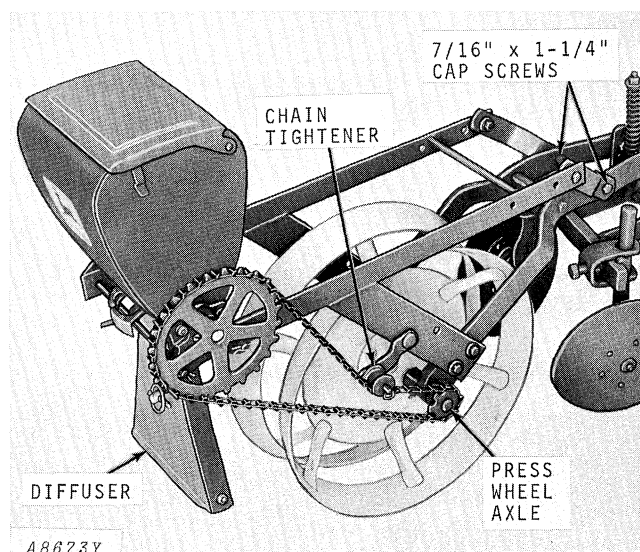
Remove the fluted roller from the hopper by first removing the Quik-Lock pin at the left end of the hopper drive shaft. Remove the spring-loaded pin from the fluted roller. Pull the shaft from the right-hand side of the hopper and remove fluted roller from the hopper. Wash and dry the hopper, outlet opening, and the fluted roller thoroughly.

Drive Parts for F886 Bedder



When the herbicide attachment is used with an F886 6-row Bedder, it is necessary to use a drive shaft extension and an additional drive shaft support to drive the innermost attachment on each side. See illustration above.

Herbicide Attachment used with No. 8 Press Wheel Attachment (Special Equipment)

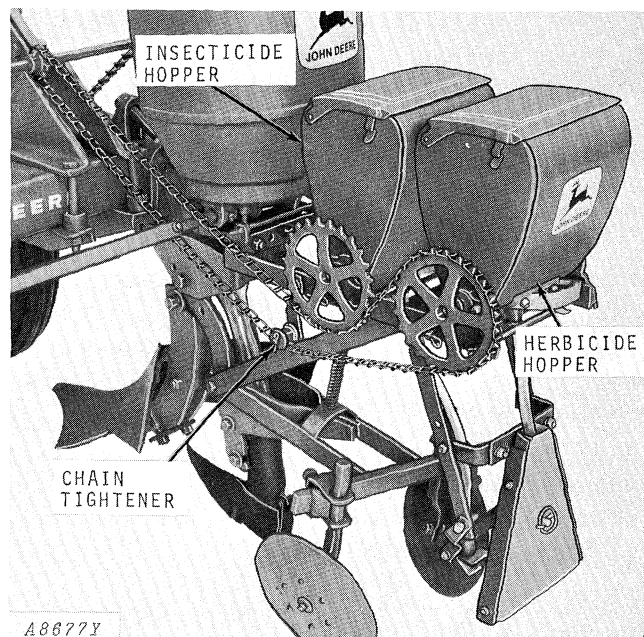


When using a herbicide attachment with the No. 8 Press Wheel Attachment, the herbicide attachment is driven from the press wheel axle. A longer axle (A13735) is required to attach the drive sprocket.

To attach the herbicide support to the press wheel frame, it is necessary to use two 7/16 x 1-1/4-inch cap screws (19H1821), two 7/16-inch lock washers (12H293), and two 7/16-inch hex. nuts (14H813). Hardware is available from your John Deere Dealer.

For complete operating instructions, see "Herbicide Attachment" on pages 29 through 31.

INSECTICIDE AND HERBICIDE ATTACHMENT (Special Equipment)

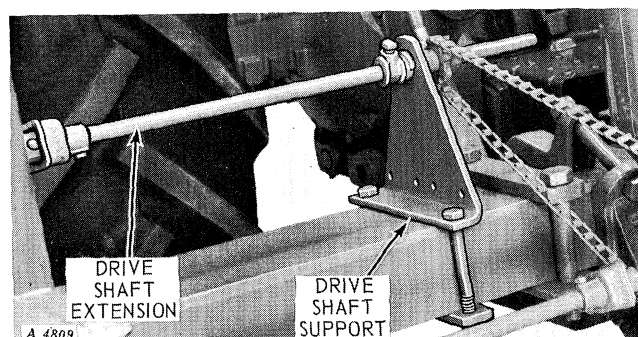


This attachment is an individual unit for each row and is driven from the gauge wheel.

For operating instructions on insecticide application, see pages 27-28.

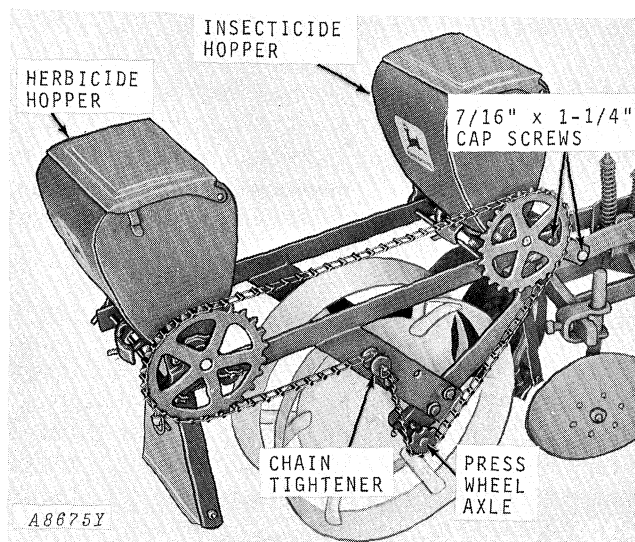
For operating instructions on herbicide application, see pages 29-31.

Drive Parts for F886 Bedder



When the insecticide and herbicide attachment is used with an F886 6-row bedder, it is necessary to use a drive shaft extension and an additional drive shaft support to drive the innermost attachment on each side. See illustration above.

Insecticide and Herbicide Attachment used with No. 8 Press Wheel Attachment (Special Equipment)



When using the insecticide and herbicide attachment with the No. 8 Press Wheel Attachment, the insecticide and herbicide attachment is driven from the press wheel axle. A longer axle (A13735) is required to attach the drive sprocket.

To attach the insecticide and herbicide support to the press wheel frame, it is necessary to use two 7/16 x 1-1/4-inch cap screws (19H1821), two 7/16-inch lock washers (12H293), and two 7/16-inch hex. nuts (14H813). Hardware is available from your John Deere Dealer.

For operating instructions on insecticide application, see pages 27-28.

For operating instructions on herbicide application, see pages 29-31.

CAUSES FOR COMMON PLANTING DIFFICULTIES

Inaccurate Drop:

- A—Poorly graded corn.
- B—Wrong seed plates.
- C—Floor plate turned wrong side up or wrong false ring used.
- D—Cut-off or knocker worn or not working freely.
- E—Seed interfering with proper action of cut-off and roller knocker. (Seed may drop into cut-off and knocker housing if can is inverted when changing seed plates.)

Planting More Corn in Some Rows Than in Others:

- A—Seed interfering with proper action of cut-off and roller knocker. (Seed may drop into cut-off and knocker housing if can is inverted when changing seed plates.)
- B—Cut-off tongue worn or out of position.
- C—Weak or broken cut-off spring.
- D—Floor plate turned wrong side up.
- E—Wrong seed plate or false ring in one can.
- F—Warped false ring.
- G—Can not clamped down tight.

SAFETY RULES



The safety of the operator was one of the prime considerations in the minds of John Deere engineers when these planting attachments were designed. Simple adjustments and other safety features were built into the planting attachments wherever possible.

However, investigation of thousands of farm accidents show that careless use of farm machinery causes nearly one-third of all farm accidents. You can make your farm a safer place to live and work if you observe the safety suggestions given. Study these suggestions carefully and insist that they be followed by those working with you and for you.

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.

Agricultural chemicals can be dangerous! Improper **selection** or **use** can injure persons, animals, plants, soils, or other property. **BE SAFE:** Select the right chemical for the job. Handle and apply it with care. Follow instructions of the chemical manufacturer.

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

Finally, remember this: An accident is usually caused by someone's carelessness, neglect, or 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

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.

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 35 and 36.

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.

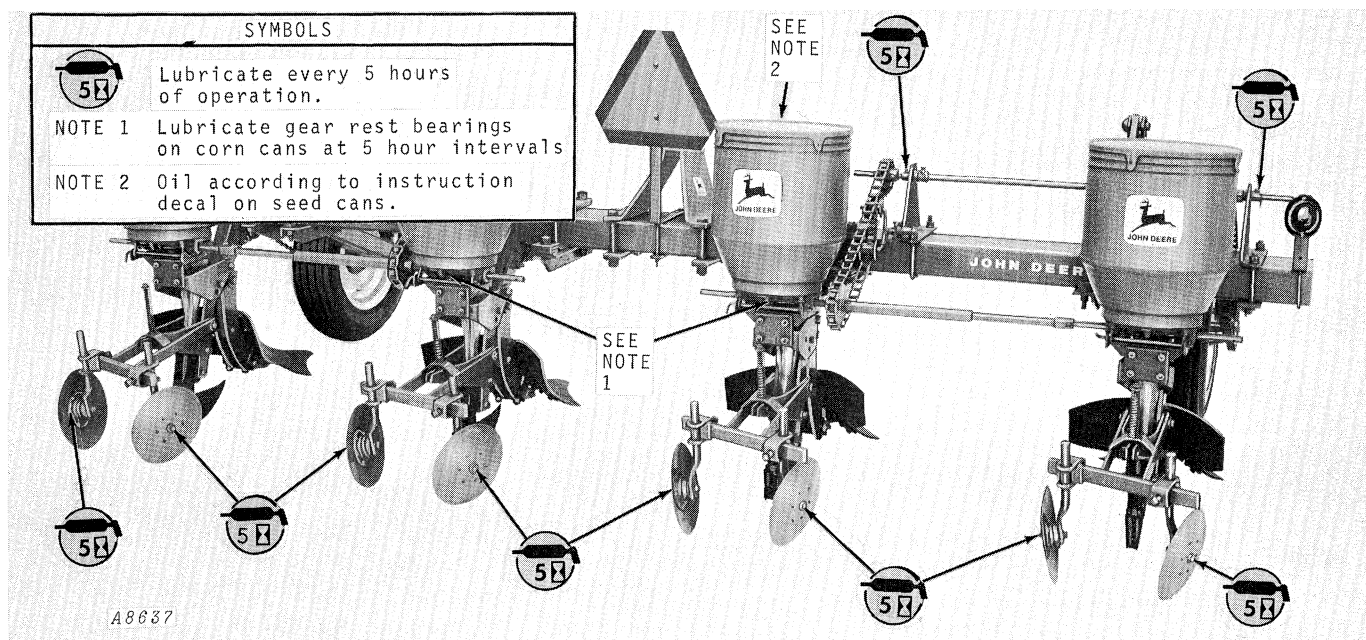
Apply a good rust preventive to all land-polished surfaces such as the bottoms or sweeps. See "Rust Prevention" in preceding column.

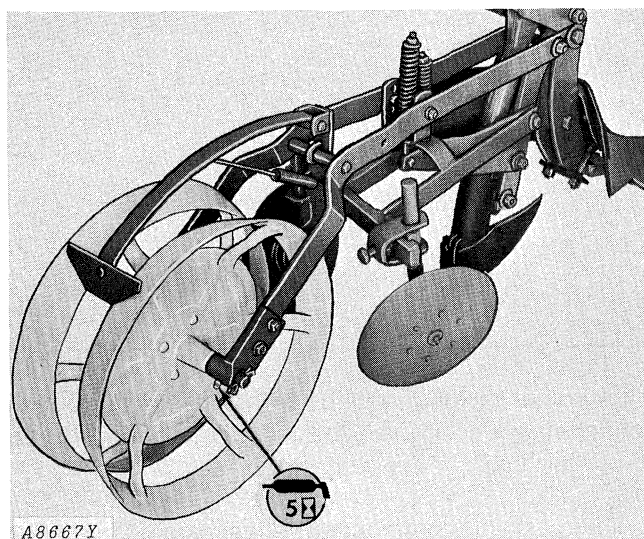
Lubrication

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

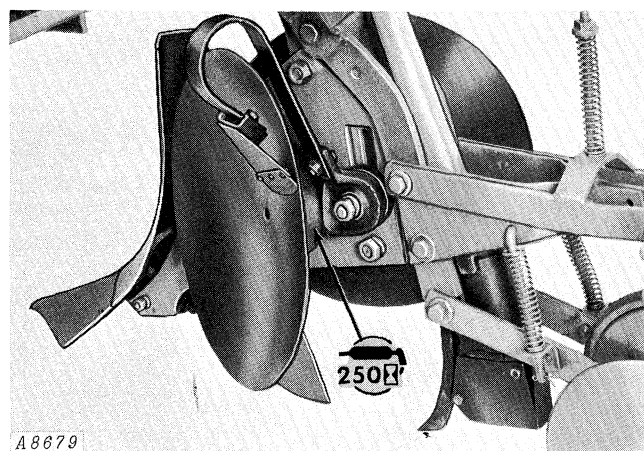
All other moving parts on the bedder and planting attachment should be oiled twice daily with SAE 30 lubricating oil.

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





No. 8 Press Wheel Attachment

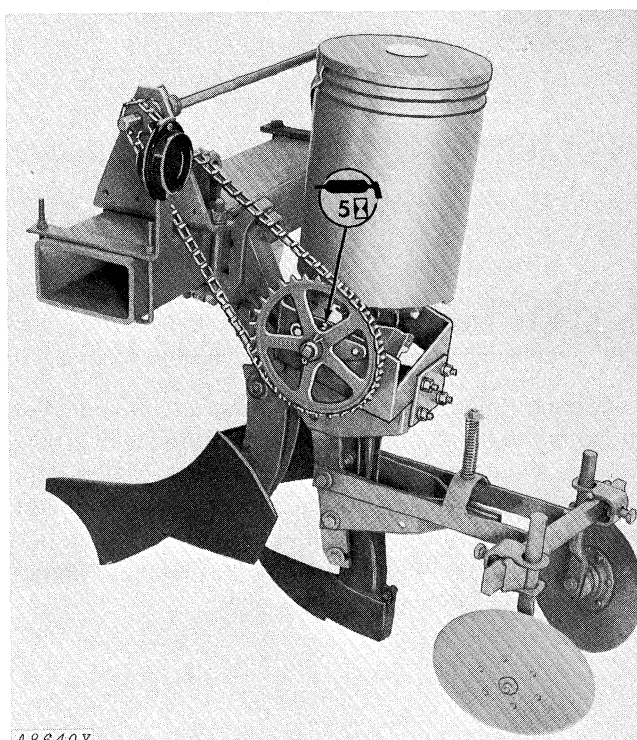


Hard Ground Disk Opener

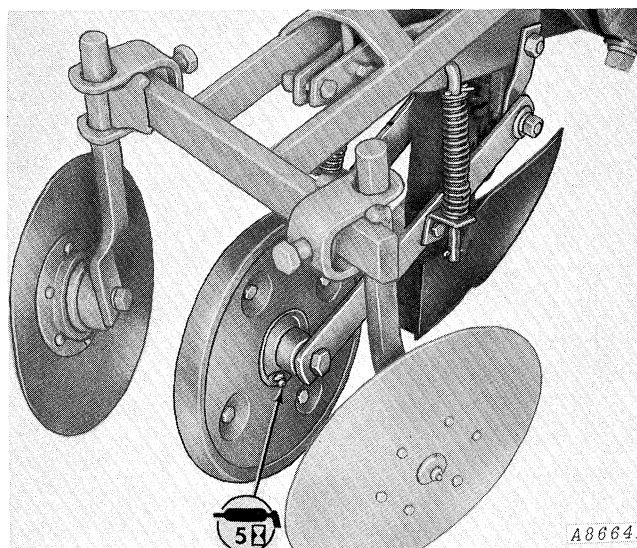
SYMBOLS



Lubricate with John Deere Multi-purpose Lubricant or an equivalent SAE multipurpose-type grease at hourly intervals indicated on the symbols.



Maize Seed Can



10 x 1-Inch Press Wheel



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	PA824	PA842	PA843	PA844	PA862	PA863	PA864	PA884
SD 118 A	Disk Coverers	2	4	4	4	6	6	6	8
BA 14774	Final Drive Sprocket	1	2	2	2	2	2	2	4
SD 2625 A	Drive Shaft	1	2	2	2	2	2	2	4
BA 11162	Subsoiler)	2	4	4	4	6	6	6	8
BA 14416	Subsoiler) Optional	2	4	4	4	6	6	6	8
BA 15234	Subsoiler)	2	4	4	4	6	6	6	8
BA 14381	Subsoiler)	2	4	4	4	6	6	6	8
BA 14983	Can Support and Covering Frame	2	4	4	4	6	6	6	8
BA 11095	Corn and Cotton Cans (Pair)	1	..	..	2	..	..	3	4
BA 14143	Gauge Wheel Drive (For F884 Bedder)	1	..	..	..	..	..	..	..
BA 11194	Gauge Wheel Drive (For F884, F886, and F888 Bedders)	..	1	1	1	1	1	1	2
BA 14011	Seed Tube	1	..	..	2	..	..	3	4
BA 14223	Standard	..	4	..	..	6	..	..	..
SB 252 A	Bottom	..	4	..	..	6	..	..	..
BA 14978	Disk Furrow Opener	..	4	..	..	6	..	..	..
BA 10301	Corn Cans (Pair)	..	2	2	..	3	3	..	..
BA 10940	Gear Nest	..	2	2	..	3	3	..	..
BA 14142	Seed Tube	..	2	2	..	3	3	..	..
SD 2150 A	Root Cutter	..	..	4	..	..	6	..	..
BA 14772	Seed Shaft Connector	..	..	..	..	1	1	1	..
BA 14013	Can Support	1	..	..	2	..	..	3	4

SPECIAL SHIPPING BUNDLES

SD 119 A	Knife Coverers (In lieu of SD118A)	2	4	4	4	6	6	6	8
SD 121 A	Shovel Coverers (In lieu of SD118A)	2	4	4	4	6	6	6	8
A 11366	Sprocket - 9 Tooth	1	2	2	2	2	2	2	4
A 13422	Sprocket - 7 Tooth	1	2	2	2	2	2	2	4
BA 14715	10 x 1-Inch Press Wheel	2	4	4	4	6	6	6	8
BA 11168	Trash Rods and Sweep, 22-Inch	2	..	..	4	..	..	6	..
BA 11108	Gauge Wheel Drive (In lieu of BA14143 for F871 Series Bedders)	1	..	..	..	..	..	..	..
BA 11109	Gauge Wheel Drive (In lieu of BA11194 for F871 Series Bedders with 8-inch Clamps)	..	1	1	1	..	..	..	..
BB 10518	No. 10 Unshelled Peanut Attachment	2	..	..	4	..	..	6	8
2421 B	Hopper and Lid) Pea and Bean	2	..	..	4	..	..	6	8
BB 10522	Carton of Plates) Attachment	2	..	..	4	..	..	6	8
BB 10532	Vegetable and Grass Seed Cut-Off	1	..	..	2	..	..	3	4
BB 10537	Rubber Cut-Off and Baffle Plate for Shelled Peanuts	1	..	..	2	..	..	3	4
BB 10539	Brush Cut-Off and Baffle Plate for Castor Beans	1	..	..	2	..	..	3	4

SPECIAL SHIPPING BUNDLES—Continued

Bundle No.	Description	PA824	PA842	PA843	PA844	PA862	PA863	PA864	PA884
BB 12940	Cotton Cell Drop Attachment	1	..	..	2	..	..	3	4
AB 12535	Cotton Seed Plate, 32-Cell) Optional	2	..	..	4	..	..	6	8
AB 12536	Cotton Seed Plate, 48-Cell) for Cotton	2	..	..	4	..	..	6	8
AB 13010	Cotton Seed Plate, 24-Cell) Cell Drop	2	..	..	4	..	..	6	8
BA 10938	Cotton Picker Wheel	1	..	..	2	..	..	3	4

The following bundles are furnished in lieu of BA10301, BA10940, and BA14142 on PA842, PA843, PA862, and PA863 Planting Attachments. These bundles are also furnished in lieu of BA11095 and BA14012 on PA844 and PA864 Planting Attachments.

BA 14712	Maize Can Support	..	2	2	2	3	3	3	..
BA 14511	Seed Can	..	4	4	4	6	6	6	..
BA 14013	Can Support	..	2	2	2	3	3	3	..
BA 10019	Shaft Extension	..	1	1	1	2	2	2	..
BA 11298	Shaft Support	..	1	1	1	1	1	1	..

No. 8 Press Wheel Attachment

BA 14242	Wheel Frame	2	4	4	4	6	6	6	..
JD 1385	Press Wheel	2	4	4	4	6	6	6	..
BA 14015	Wheel Scraper (Available for JD1385)	2	4	4	4	6	6	6	..
B 16048	Rubber Tire (Smooth Face) (Available for JD1385)	2	4	4	4	6	6	6	..
BA 14236	Press Wheel with Tire (Smooth Face) (In lieu of JD1385)	2	4	4	4	6	6	6	..

Herbicide Attachment (For use with No. 8 Press Wheel Attachment)

BA 11070	Hopper	1	2	2	2	3	3	3	..
BA 14230	Herbicide Support	1	2	2	2	3	3	3	..
BA 15203	Herbicide Spreader	1	2	2	2	3	3	3	..

Insecticide and Herbicide Attachment (For use with No. 8 Press Wheel Attachment)

BA 11070	Hopper	2	4	4	4	6	6	6	..
BA 14230	Insecticide and Herbicide Support	1	2	2	2	3	3	3	..
BA 14007	Insecticide Spreader	1	2	2	2	3	3	3	..
BA 15203	Herbicide Spreader	1	2	2	2	3	3	3	..

The following parts are required when the Herbicide or Insecticide and Herbicide Attachments are used with the No. 8 Press Wheel Attachment:

A 13735	Shaft	2	4	4	4	6	6	6	..
19H 1821	Hex. Head Cap Screw, 7/16" x 1-1/4"	4	8	8	8	12	12	12	..
12H 293	Lock Washer, 7/16"	4	8	8	8	12	12	12	..
14H 813	Hex. Nut, 7/16"	4	8	8	8	12	12	12	..

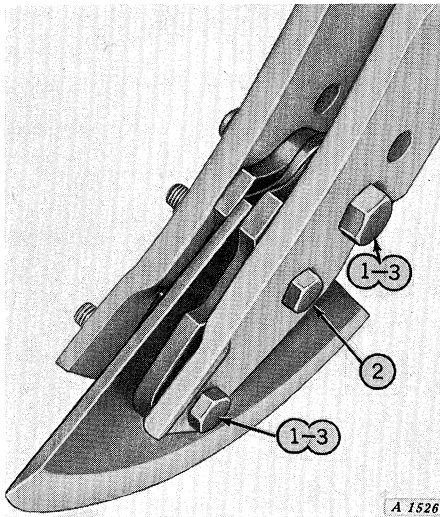
Insecticide Attachment

BA 11058	Insecticide and Herbicide Support	1	2	2	2	3	3	3	..
BA 11070	Hopper	1	2	2	2	3	3	3	..
BB 11559	Insecticide Placement Attachment	1	2	2	2	3	3	3	..

SPECIAL SHIPPING BUNDLES—Continued

Bundle No.	Description	PA824	PA842	PA843	PA844	PA862	PA863	PA864	PA884
Herbicide Attachment									
BA 11058	Insecticide and Herbicide Support	1	2	2	2	3	3	3	..
BA 11070	Hopper	1	2	2	2	3	3	3	..
BA 15203	Herbicide Spreader	1	2	2	2	3	3	3	..
Insecticide and Herbicide Attachment									
BA 11058	Insecticide and Herbicide Support	1	2	2	2	3	3	3	..
BA 11070	Hopper	2	4	4	4	6	6	6	..
BA 15203	Herbicide Spreader	1	2	2	2	3	3	3	..
BB 11559	Insecticide Placement Attachment	1	2	2	2	3	3	3	..
The following two bundles are required to drive Insecticide, Herbicide, or Insecticide and Herbicide Attachments with 6-Row operation.									
BA 10019	Shaft Extension	..	..	..	..	2	2	2	..
BA 11298	Shaft Support	..	..	..	..	1	1	1	..
The following bundles are furnished for Minimum Tillage in lieu of SD2150A. Bottoms or sweeps furnished with Bedder are not used.									
BA 11168	Trash Rods and Sweep, 22-Inch	..	..	4	..	..	6	..	..
BA 14715	10 x 1-Inch Press Wheel	..	..	4	..	..	6	..	..
The following two bundles are furnished on orders in lieu of BA14222 and BA14223 when adjustable disk angle is desired.									
BA 14008	Standard	4	..	..	..	6	..	..	..
BA 14009	Disk Furrow Opener	4	..	..	..	6	..	..	..
The following two bundles are furnished in lieu of BA11162, BA14222, BA14223, BA14008, and SB252A for converting Hard Ground Opener into Loose Ground Opener.									
BA 14009	Disk Furrow Opener	4	..	..	..	6	..	..	..
BA 14014	Runner and Support	4	..	..	..	6	..	..	..
The following three bundles are furnished to convert PA843 to PA842 Planting Attachment and PA863 to PA862 Planting Attachment. These bundles also are furnished when it is desired to use hard ground disk openers on PA844 or PA864 Planting Attachments. Standards and bottoms or sweeps furnished with bedder are not used.									
BA 14223	Standard	..	..	4	4	..	6	6	..
SB 252 A	Bottom	..	..	4	4	..	6	6	..
BA 14978	Disk Furrow Opener	..	..	4	4	..	6	6	..

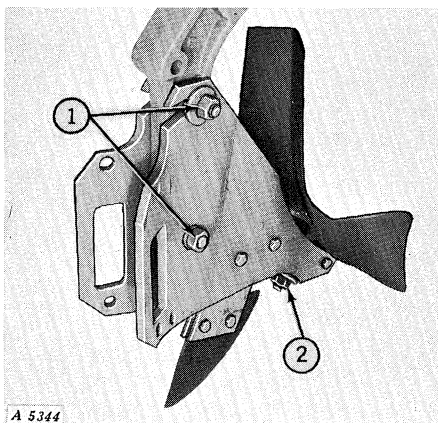
ROOT CUTTER (PA843 and PA863 Planting Attachments)



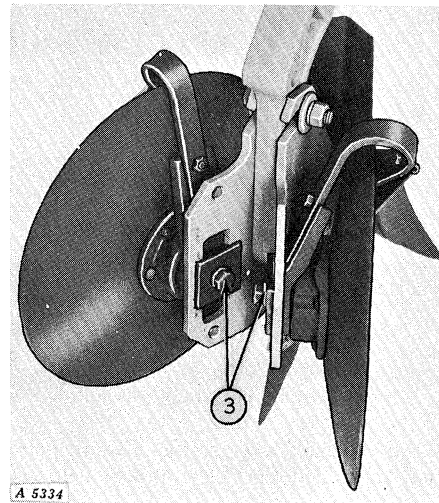
1. Remove two spacers from standard.
2. Insert blocks and root cutter and attach with 3/8 x 2-1/4-inch machine bolt.
3. Replace the two machine bolts removed in Step 1.

HARD GROUND DISK OPENERS

Fixed-Angle Hard Ground Opener (Regular for PA842 and PA862 Planting Attachments; Optional for PA843, PA844, PA863, and PA864 Planting Attachments)

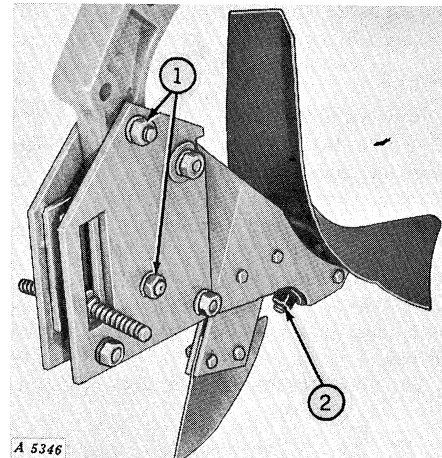


1. Attach frame plates to beam with bolts supplied.
2. Bolt lister bottom to standard.

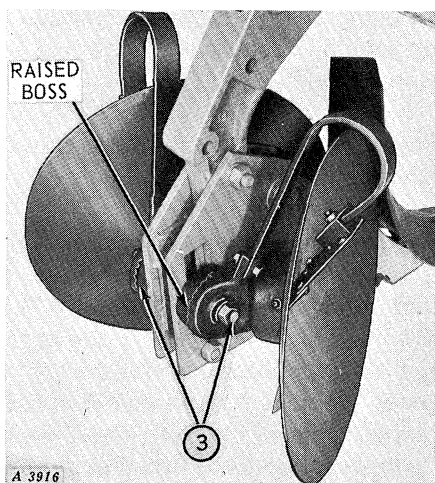


3. Attach the disk openers and scrapers to frame plates with carriage bolts supplied in frame plates.

Adjustable-Angle Hard Ground Disk Opener (Optional Equipment)

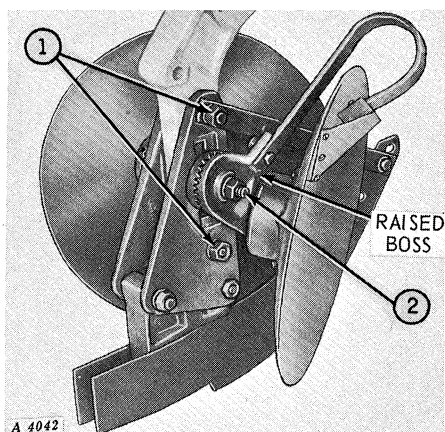


1. Attach frame plates to beam with bolts supplied.
2. Bolt lister bottom to standard.



3. Attach the disk openers and scrapers to frame plates with carriage bolts supplied in frame plates. Assemble with the raised boss on the corrugated bracket washer toward the rear.

LOOSE GROUND DISK OPENERS (PA842 and PA862 Planting Attachments; Optional Equipment)

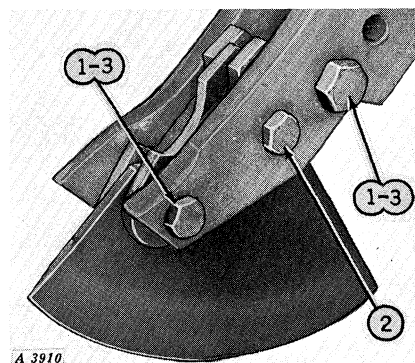


1. Attach runner supports to beam with bolts supplied.

2. Bolt the disk openers and scrapers to runner supports with carriage bolts supplied in runner supports. Assemble with the raised boss on the corrugated washer toward the front.

NOTE: The two 1/2 x 1-1/2-inch bolts and the 3/4 x 2-1/8-inch spacer supplied in the runner opener and support will be used in the subsoiler and gear nest support. See inset in illustration in left-hand column on page 42.

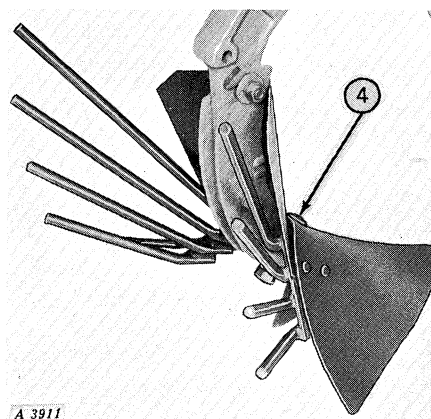
TRASH RODS AND SWEEP (PA824, PA843, PA844, PA863, and PA864 Planting Attachments; Optional Equipment)



1. Remove two spacers from standard.

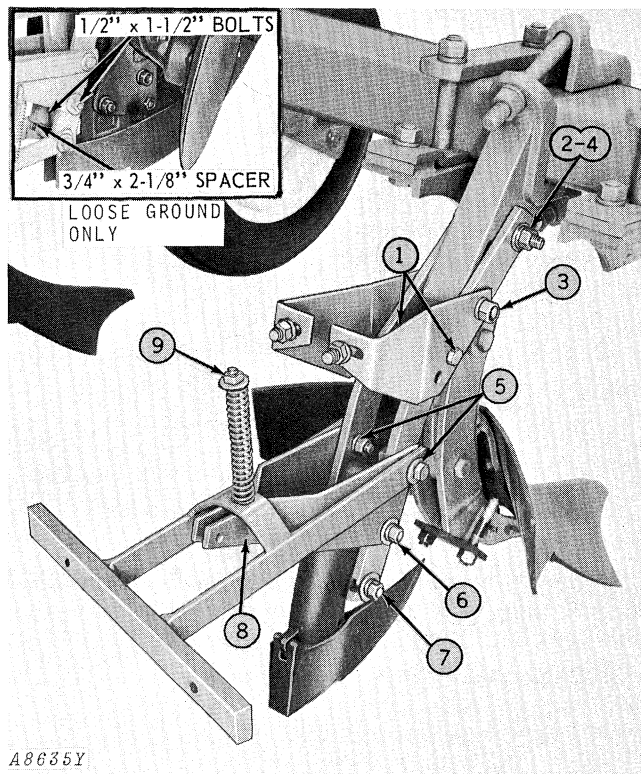
2. Insert blocks and root cutter and attach with bolts supplied.

3. Replace bolts removed in Step 1.



4. Attach sweep to standard.

GEAR NEST SUPPORT, COVERING FRAME, AND SUBSOILER



1. Attach right- and left-hand can support plates to the subsoiler support arms with the 1/2 x 1-3/4-inch cap screws provided.

2. Insert bolt with bushing through top hole in beam. Leave nut loose. Slide slotted upper ends of subsoiler support arms onto bushings.

3. Attach right and left-hand can support plates and subsoiler support arms to the beam.

4. Tighten nut on bolt in top hole.

5. Attach covering frame with bushings to plunger supports and subsoiler support arms.

6. Attach plunger support plates and subsoiler to subsoiler support arms with cap screw, washers, lock washer, and nut provided.

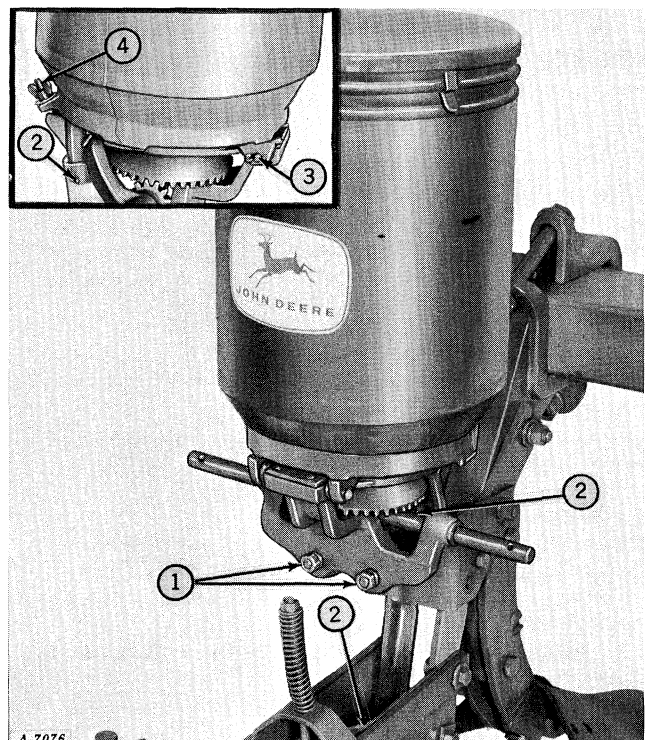
7. Attach subsoiler to subsoiler support arms with 1/2 x 4-inch cap screw, washers, lock washer, and nut.

8. Insert plunger eyebolt upward through the covering frame yoke and secure to plunger supports with cap screw provided.

9. Attach spring with washer and plunger nut. Tighten plunger nut.

NOTE: When the loose ground opener is used with the PA842 or PA862 Planting Attachment, the subsoiler cannot be used. Remove 1/2 x 4-1/2-inch bolt from lower hole in plunger supports and replace with two 1/2 x 1-1/2-inch bolts provided with the loose ground opener. Remove bottom bolt in subsoiler and gear nest support, insert the 3/4 x 2-1/8-inch spacer (provided with loose ground opener) and replace bolt. See inset in illustration at left.

GEAR NEST, SEED TUBE, AND CORN CAN (PA842, PA843, PA862, and PA863 Planting Attachments)



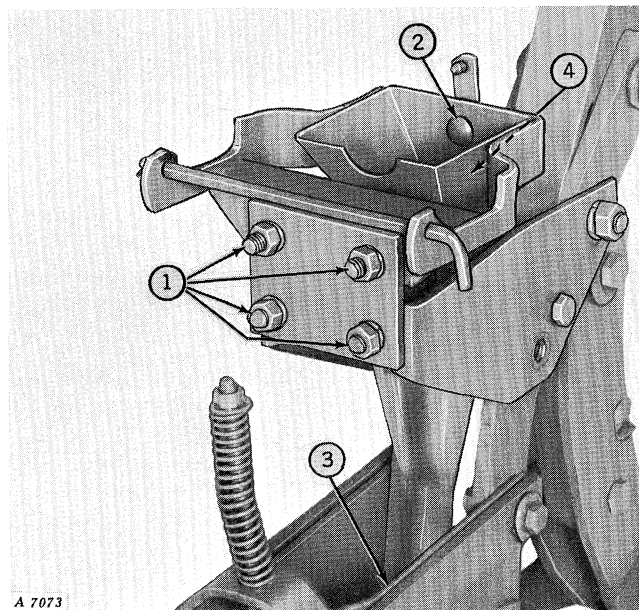
1. Attach gear nest to can support plates.

2. Insert lower end of seed tube into subsoiler. Attach seed tube to gear nest.

3. Insert can in gear nest hinge.

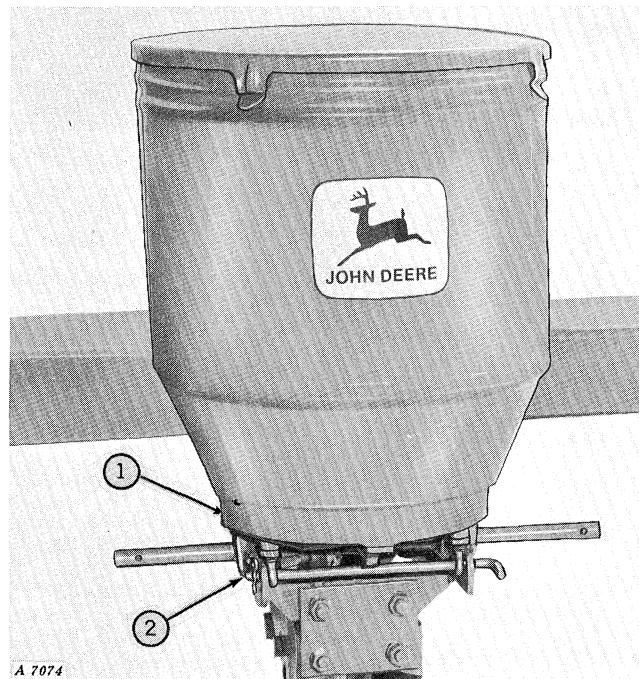
4. Secure can to gear nest with wing nut and bolt.

CAN SUPPORT AND SEED TUBE (PA824, PA844, PA864, PA884 Planting Attachments)



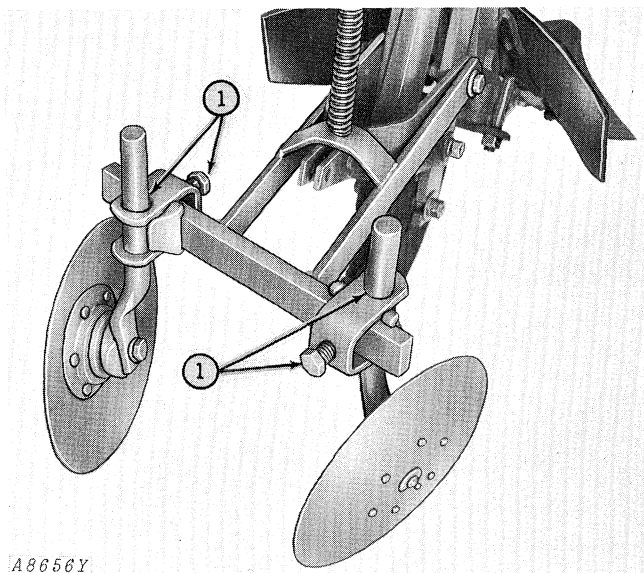
1. Attach can support to gear nest support.
2. Attach seed tube strap to can support.
3. Insert lower end of seed tube into subsoiler.
4. Secure seed tube to seed tube strap with machine screw, washer, and nut provided.

CORN AND COTTON CAN (PA824, PA844, PA864, PA884 Planting Attachments)



1. Align hole in front of seed can bottom plate with support holding strap dowel and attach front of plate to support.
2. Attach rear of can to support with bottom locking pin and spring-locking pin.

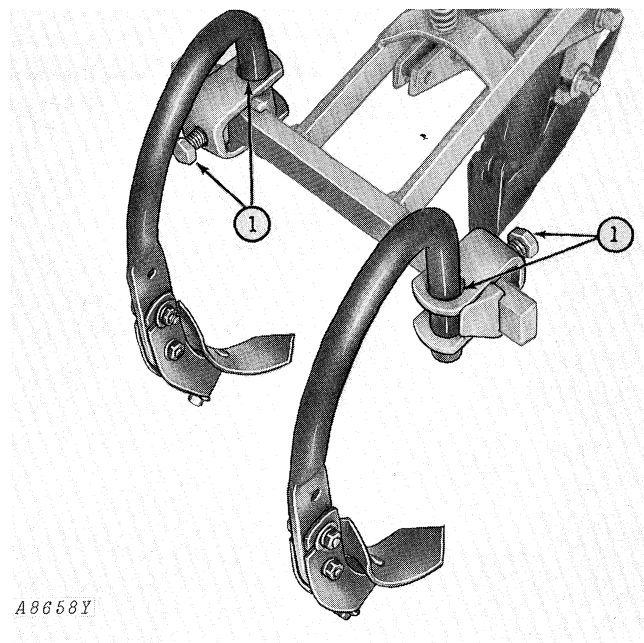
DISK COVERERS (Optional Equipment)



1. Insert shank into yoke and tighten bolt securely.

See page 22 for adjustment of disk coverers.

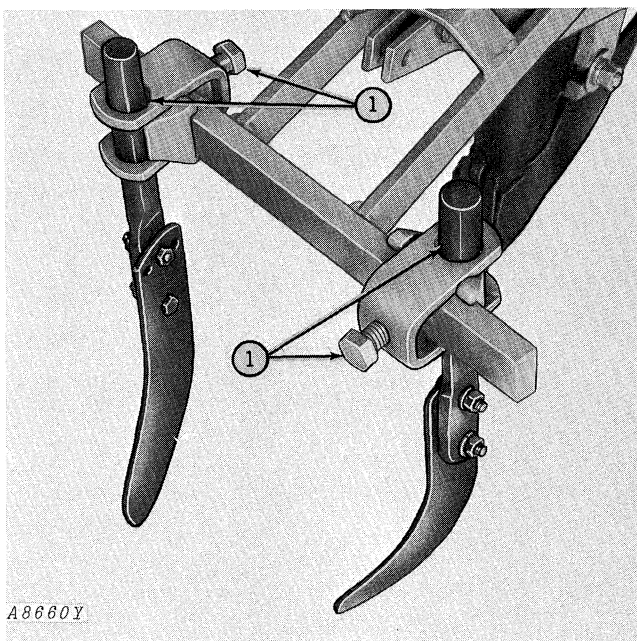
SHOVEL COVERERS (Optional Equipment)



1. Insert shank into yoke and tighten bolt securely.

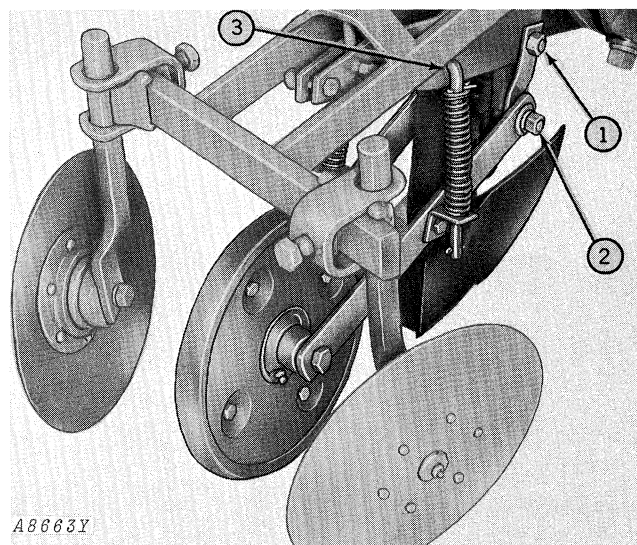
See page 22 for adjustment of shovel coverers.

KNIFE COVERERS (Optional Equipment)



1. Insert shank into yoke and tighten bolt securely.
See page 22 for adjustment of knife coverers.

10 x 1-INCH PRESS WHEEL (Special Equipment)



1. Remove lower bolt from plunger supports, subsoiler supports, and subsoiler. Position top of reset straps, lining up holes with slots in plunger supports, and reinsert bolt. Secure with lock washer and nut.

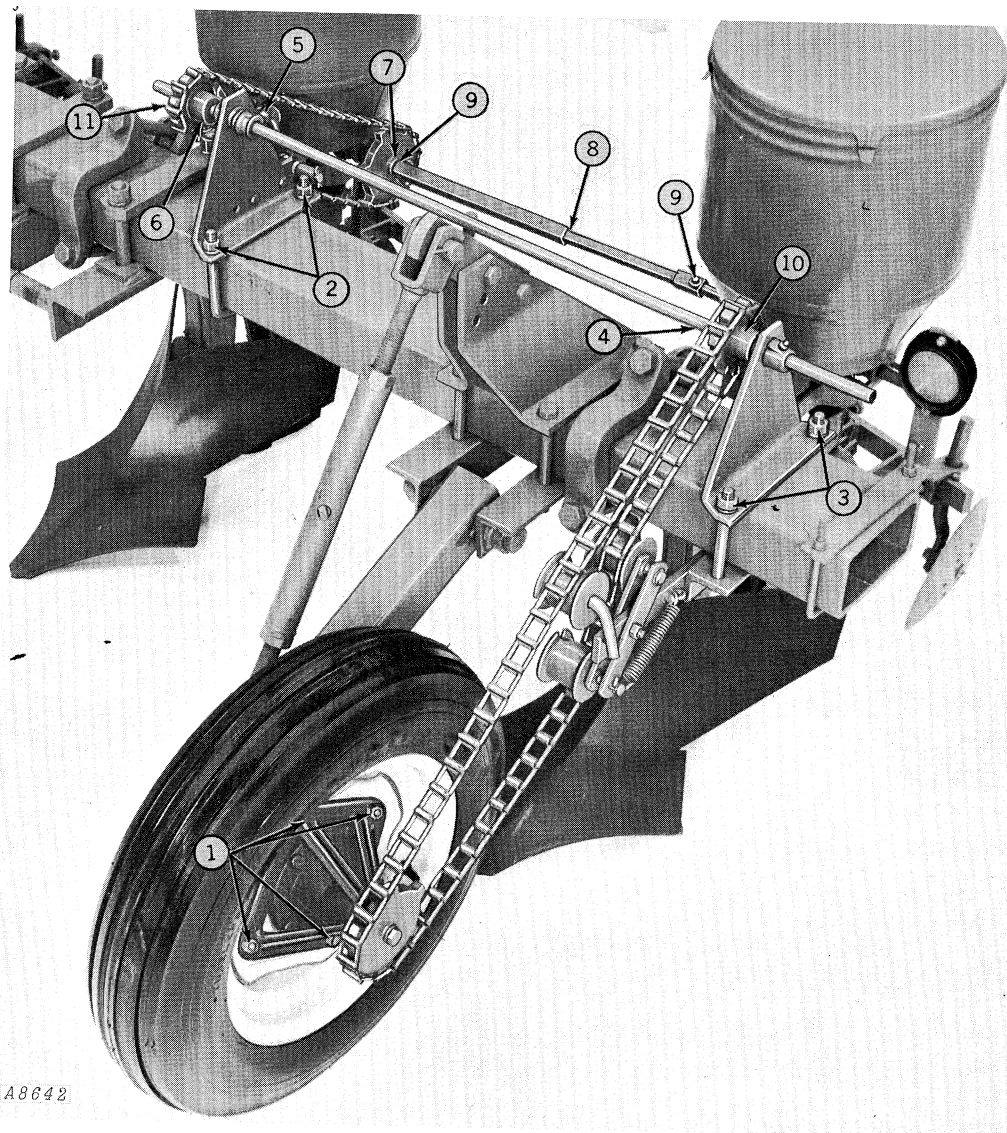
2. Remove bolt and washers from subsoiler and subsoiler supports. Attach press wheel frame to subsoiler and subsoiler supports with 1/2 x 5-1/4-inch cap screw provided.

3. Attach spring plungers to plunger supports.

GAUGE WHEEL DRIVE

Gauge Wheels In Front of Bar and Directly Ahead of Bottoms or Sweeps

F884 Bedder



Left Side Illustrated

1. Attach drive sprocket support and sprocket to gauge wheel. *NOTE: Place spacers between support and 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 through outside shaft support bearing.

Place gauge wheel drive sprocket and set screw collar on drive shaft and slide drive shaft through inside shaft support bearing.

5. Secure set screw collar on drive shaft next to inside shaft support bearing.

6. Attach final drive sprocket to drive shaft.

7. Attach driven sprocket to gear nest drive shaft.

8. Insert inner shaft into outer shaft. Make certain that holes in ends are at right angles (90°) to each other.

9. Attach connecting shaft to gear nest drive shafts with drilled pins and locking pins.

10. Align sprockets and tighten setscrew on sprocket. Attach gauge wheel drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

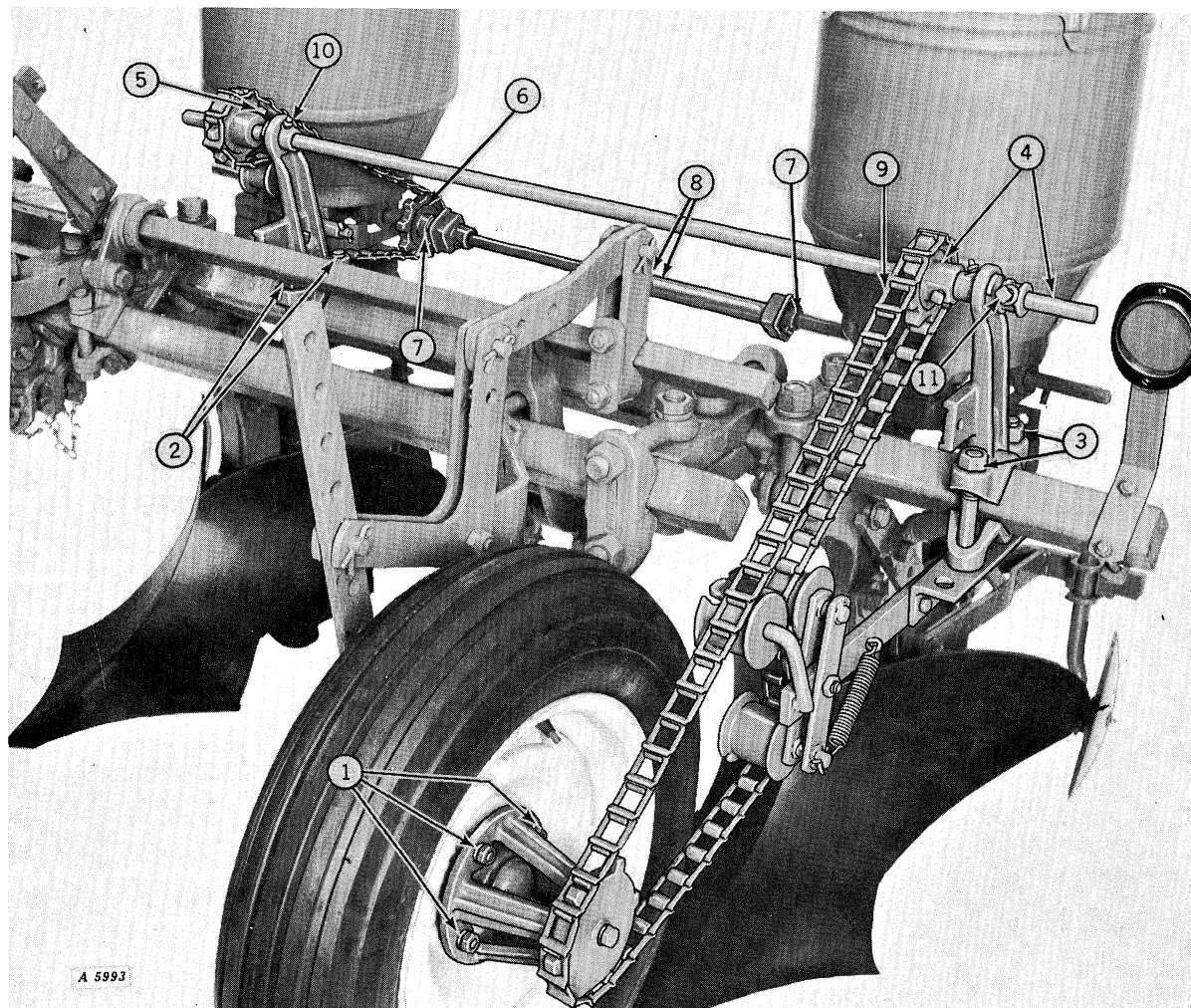
11. Align sprockets and tighten setscrews on final drive and driven sprockets. Attach final drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

Tighten all nuts securely.

GAUGE WHEEL DRIVE—Continued

Gauge Wheels In Front of Bar and Directly Ahead of Bottoms or Sweeps—Continued

F871 Bedder



1. Attach drive sprocket support and sprocket to gauge wheel. Leave tapered nuts on wheel bolts and attach support and sprocket with additional lock washers and nuts provided.

2. Attach inside shaft support with chain tightener to rear bedder bar.

NOTE: Be sure offset of shaft supports are to the rear.

3. Attach outside shaft support with chain tightener to rear bedder bar.

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

5. Attach final drive sprocket to drive shaft.

6. Attach driven sprocket to gear nest drive shaft.

7. Attach male knuckles to gear nest drive shafts with drilled pin and cotter pin.

8. Extend connecting shaft and drive shaft sleeve to their maximum permissible length (depending on row spacing) and insert socket of drive shaft sleeve over male knuckle of adjoining gear nest drive shaft.

Tighten setscrews in connecting shaft sleeve.

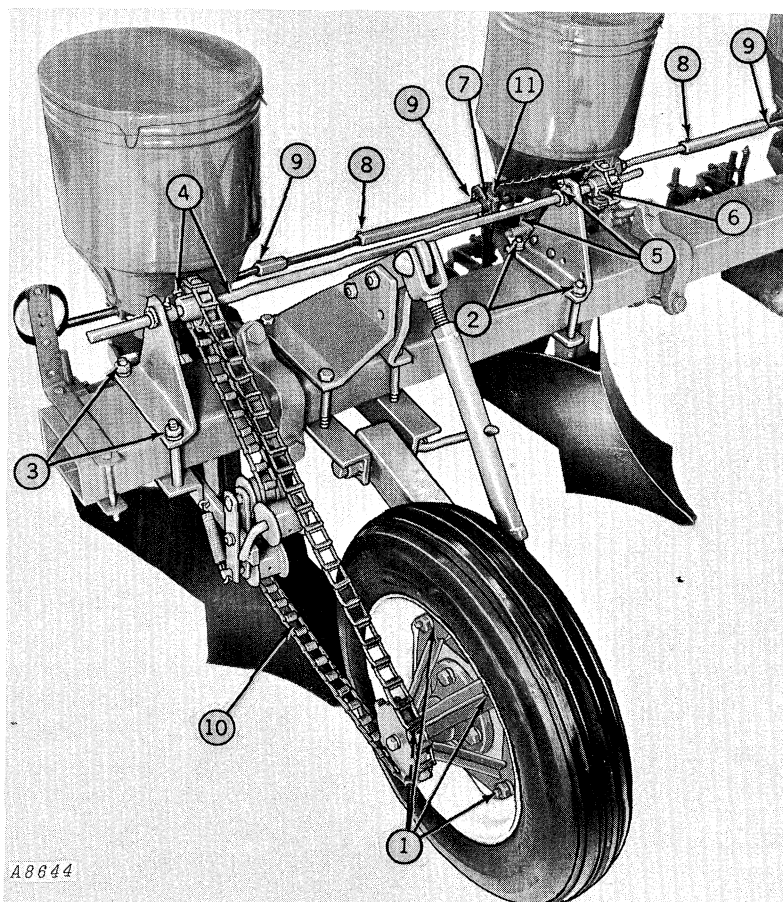
9. Align sprockets and tighten setscrew on sprocket. Attach gauge wheel drive chain as shown above.

10. Align sprockets and tighten setscrews on final drive and driven sprockets. Attach final drive chain as shown above.

Tighten all nuts securely.

11. Attach setscrew collar on drive shaft next to shaft support bearing.

F886 Bedder



Right Side Illustrated

1. Attach drive sprocket support and sprocket to gauge wheel. *NOTE: Place spacers between support and wheel.*

2. Attach inside shaft support with chain tightener to bedder bar.

3. Attach outside shaft support with chain tightener to bedder bar.

4. Slide drive shaft through outside shaft support bearing and place gauge wheel drive sprocket on the drive shaft.

5. Slip setscrew collar on drive shaft and slide drive shaft through inside shaft support bearing.

Secure setscrew collar on drive shaft next to shaft support bearing.

6. Attach final drive sprocket to drive shaft.

7. Attach driven sprocket to gear nest drive shaft.

8. Insert inner shafts into outer shafts. Make certain that holes in ends are at right angles (90°) to each other.

9. Attach connecting shafts to gear nest drive shafts with drilled pins and locking pins.

10. Align sprockets and tighten setscrews on sprocket. Attach gauge wheel drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

11. Align sprockets and tighten setscrews on final drive and driven sprockets. Attach final drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

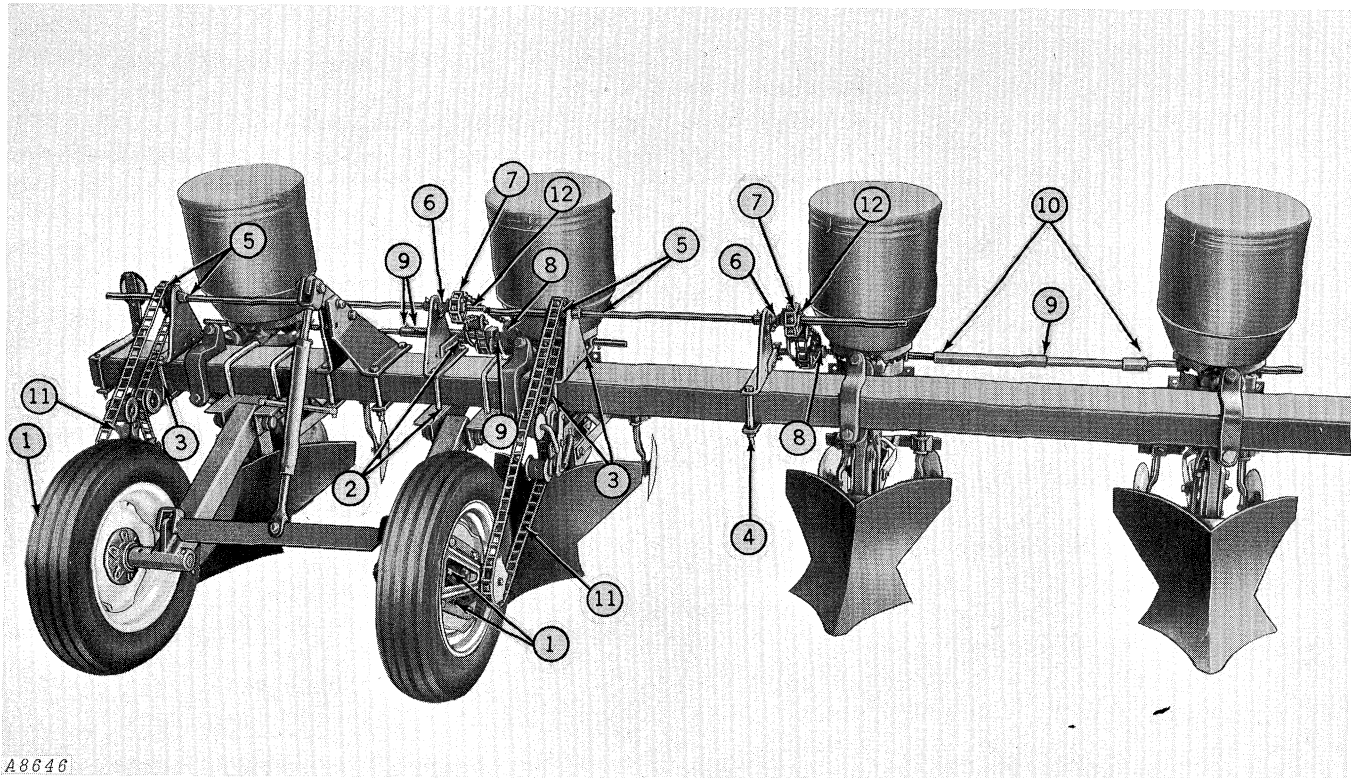
Tighten all nuts securely.

NOTE: When gauge wheels are used directly ahead of the bottoms or sweeps, it may be necessary, depending on row spacing and bedder bar used, to move the reflector brackets and warning reflectors from the end of the bedder bar to a point midway between the two outer seed cans.

GAUGE WHEEL DRIVE—Continued

Gauge Wheels Directly Ahead of the Bottoms or Sweeps

F888 Bedder



1. Attach drive sprocket support and sprocket to wheel with bolts supplied. *NOTE: Place spacers between support and wheel.*

2. Remove bearing angle strap and replace with an inside shaft support and chain tightener.

3. Attach outside shaft supports with chain tighteners to bedder bar.

4. Attach remaining inside shaft supports with chain tightener as shown.

5. Slide drive shafts through shaft support bearings and place gauge wheel drive sprockets on the drive shaft.

6. Attach setscrew collar on drive shaft next to shaft support bearing.

7. Attach final drive sprocket to drive shaft.

8. Attach driven sprocket to gear nest drive shaft.

9. Insert inner shafts into outer shafts. Make certain that holes in ends are at right angles (90°) to each other.

10. Attach connecting shafts to gear nest drive shafts with drilled pins and locking pins.

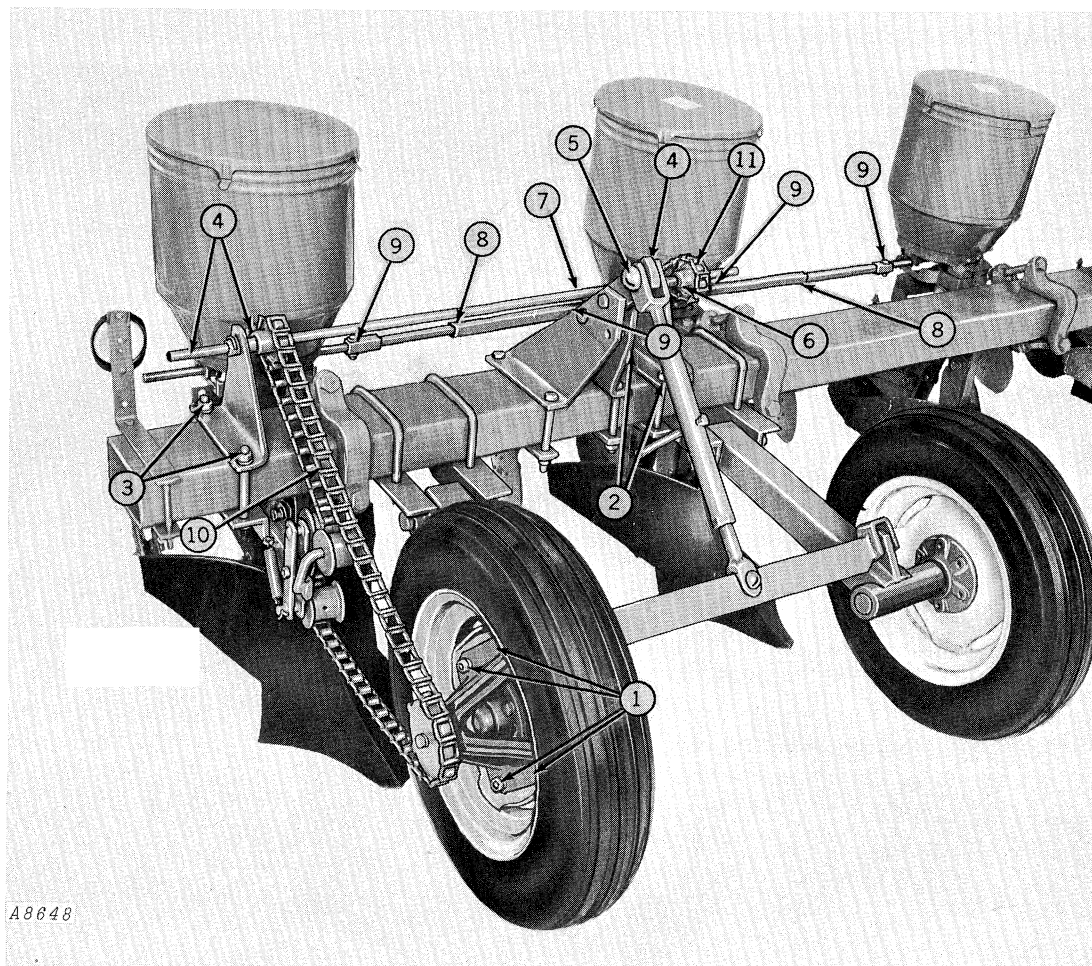
11. Align sprockets and tighten setscrew on sprocket. Attach gauge wheel drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

12. Align sprockets and tighten setscrews on final drive and driven sprockets. Attach final drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

Tighten all nuts securely.

Dual Gauge Wheels In Front of Bar

F886 Bedder



Right Side Illustrated

1. Attach drive sprocket support and sprocket to outside gauge wheel. *NOTE: Place spacers between support and wheel.*

2. Attach inside shaft support with chain tightener to bedder bar.

3. Attach outside shaft support with chain tightener to bedder bar.

4. Slide drive shaft through outside shaft support bearing and place gauge wheel drive sprocket and setscrew collar on the drive shaft.

NOTE: Setscrew collar should be positioned against the inside shaft support bearing. Tighten setscrew.

5. Slide drive shaft through inside shaft support.

6. Attach final drive sprocket to drive shaft.

7. Attach driven sprocket to gear nest drive shaft.

8. Insert inner shafts into outer shafts. Make certain that holes in ends are at right angles (90°) to each other.

9. Attach connecting shafts to gear nest drive shafts with drilled pins and locking pins.

10. Align sprockets and tighten setscrew on sprocket. Attach gauge wheel drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

11. Align sprockets and tighten setscrews on final drive and driven sprockets. Attach final drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

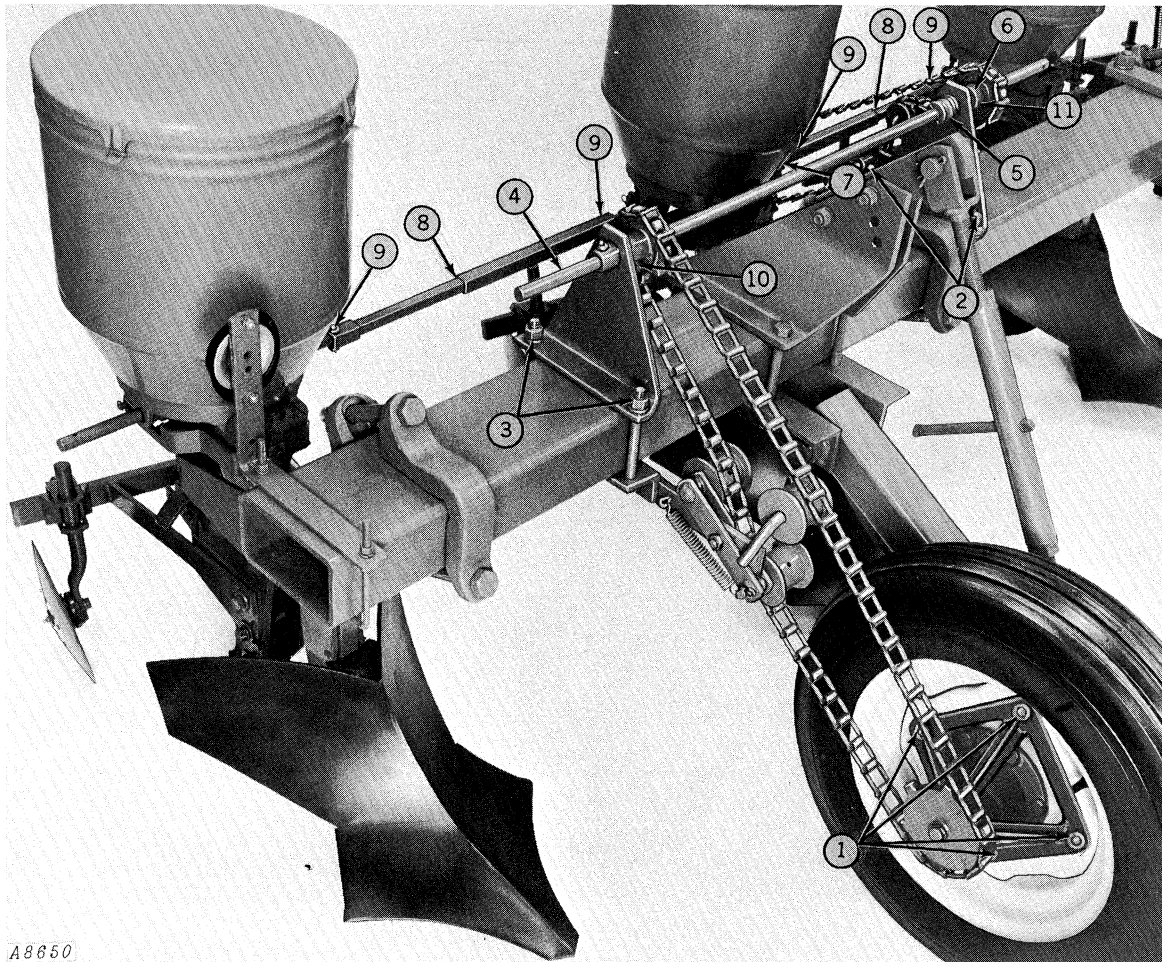
Tighten all nuts securely.

NOTE: When dual gauge wheels are used, it may be necessary, depending on row spacing and bedder bar used, to move the reflector brackets and warning reflectors from the end of the bedder bar to a point midway between the two outer seed cans.

GAUGE WHEEL DRIVE—Continued

Gauge Wheels in Front of Bar and Between Bottoms or Sweeps

F886 Bedder



A8850

Right Side Illustrated

1. Attach drive sprocket support and sprocket to gauge wheel. *NOTE: Place spacers between support and wheel.*

2. Attach inside shaft support with chain tightener to bedder bar.

3. Attach outside shaft support with chain tightener to bedder bar.

4. Slide drive shaft through outside shaft support bearing, and place gauge wheel drive sprocket on the drive shaft.

5. Slip setscrew collar on drive shaft and slide drive shaft through inside shaft support bearing. Tighten setscrew.

6. Attach final drive sprocket to drive shaft.

7. Attach driven sprocket to gear nest drive shaft.

8. Insert inner shafts into outer shaft. Make certain that holes in ends are at right angles (90°) to each other.

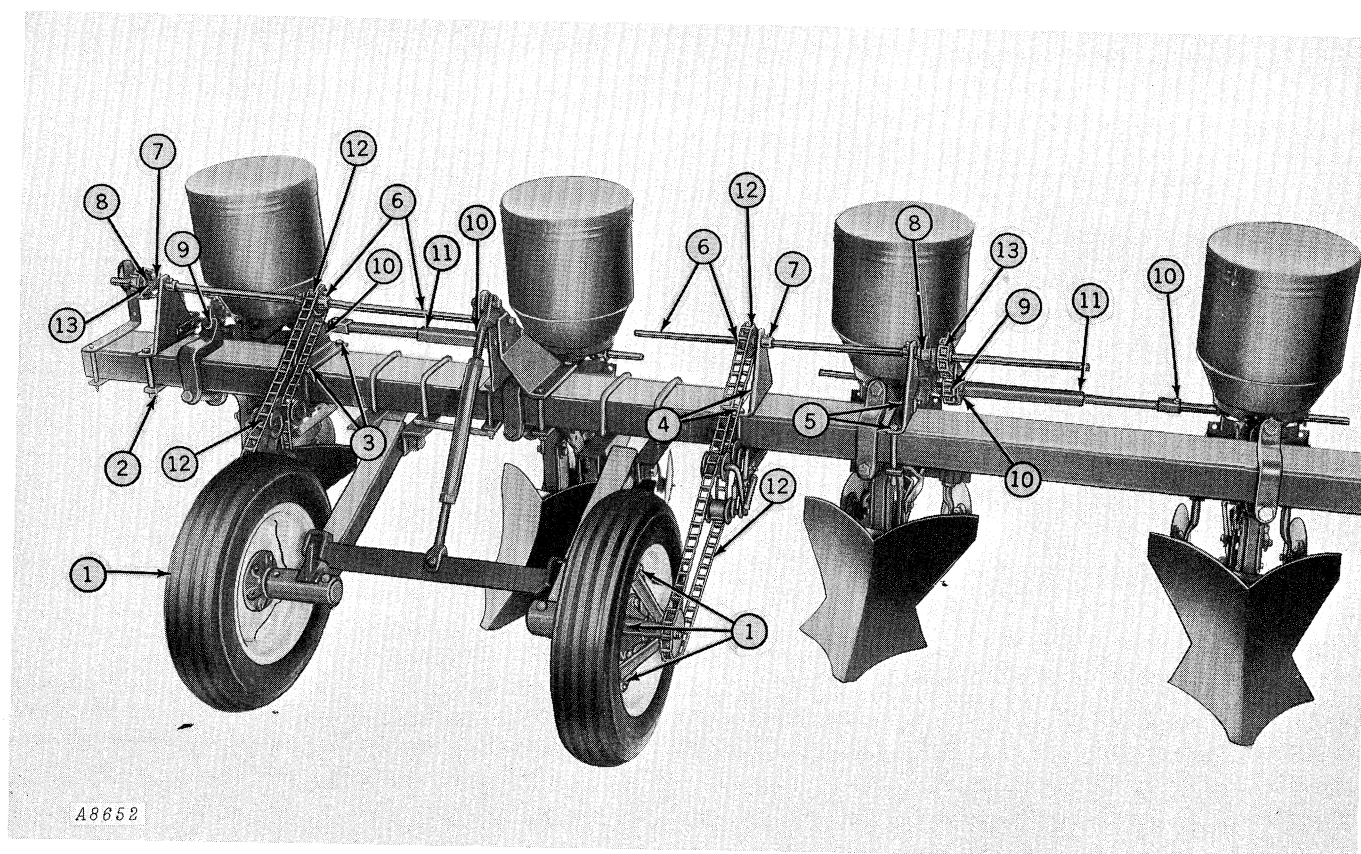
9. Attach connecting shafts to gear nest drive shafts with drilled pins and locking pins.

10. Align sprockets and tighten setscrew on sprocket. Attach gauge wheel drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

11. Align sprockets and tighten setscrews on final drive and driven sprockets. Attach final drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

Tighten all nuts securely.

F888 Bedder



Right Side Illustrated

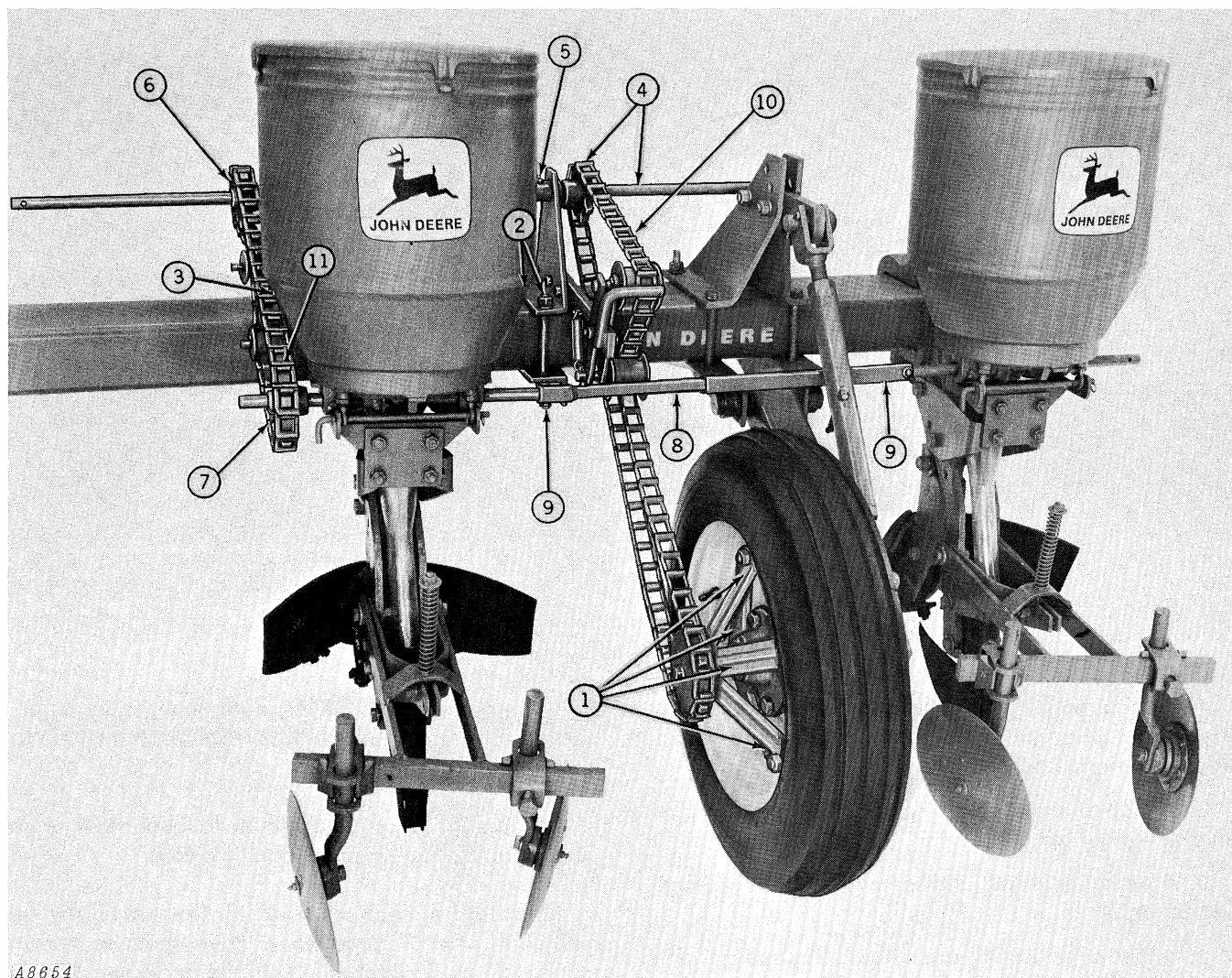
1. Attach drive sprocket support and sprocket to wheel with wheel bolts supplied. *NOTE: Place spacers between support and wheel.*
2. Attach outside shaft support with chain tightener to bedder bar.
3. Attach inside shaft supports with chain tightener to bedder bar.
4. Attach remaining outside shaft support with chain tightener as shown.
5. Attach remaining inside shaft support with chain tightener as shown.
6. Slide drive shaft through shaft support bearings and place gauge wheel drive sprocket on the drive shaft.
7. Attach setscrew collar on drive shaft next to shaft support bearing.
8. Attach final drive sprocket to drive shaft.
9. Attach driven sprocket to gear nest drive shaft.
10. Insert inner shafts into outer shafts. Make certain that holes in ends are at right angles (90°) to each other.
11. Attach connecting shafts to gear nest drive shafts with drilled pins and locking pins.
12. Align sprockets and tighten setscrew on sprocket. Attach gauge wheel drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.
13. Align sprockets and tighten setscrews on final drive and driven sprockets. Attach final drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

Tighten all nuts securely.

GAUGE WHEEL DRIVE—Continued

Gauge Wheels To Rear of Bar (Turnbuckle-Adjusted Wheels Only)

F884, F886, and F888 Bedders



Left Side Illustrated

1. Attach drive sprocket support and sprocket to gauge wheel.

NOTE: Place spacers between support and wheel.

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

NOTE: The chain tightener must be above the bedder bar.

3. Attach inside shaft support with chain tightener to bedder bar.

4. Slide drive shaft through shaft support bearings. Place gauge wheel drive sprocket on drive shaft.

5. Position setscrew collar on drive shaft, slide drive shaft through inside shaft support bearing and secure collar against the inside shaft support bearing.

6. Attach final drive sprocket to the drive shaft.

7. Attach driven sprocket to gear nest drive shaft.

8. Insert inner shaft into outer shaft. Make certain that holes in ends are at right angles (90°) to each other.

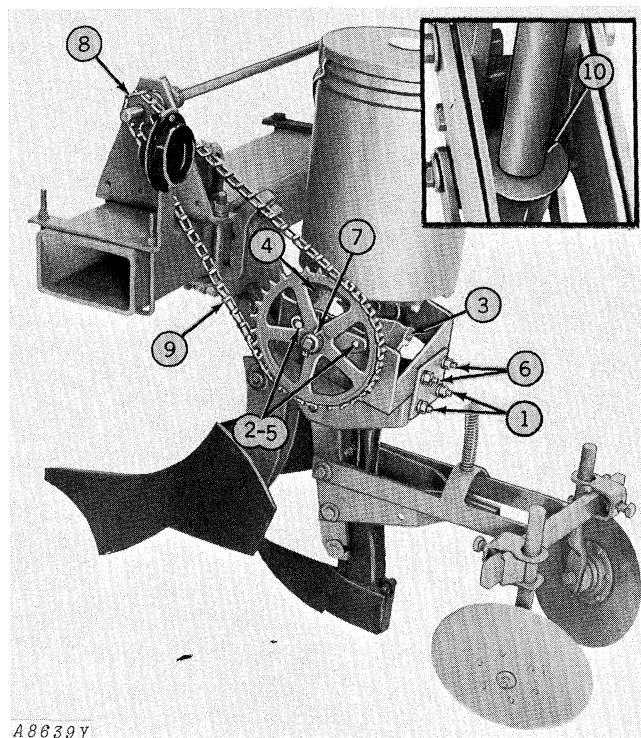
9. Attach connecting shafts to gear nest drive shafts with drilled pins and locking pins.

10. Align sprockets and tighten setscrew on sprocket. Attach gauge wheel drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

11. Align sprockets and tighten setscrews on final drive and driven sprockets. Attach final drive chain as shown above. Be sure the open end of the chain links run in the direction of travel.

Tighten all nuts securely.

MAIZE SEED CAN (Optional Equipment for PA840 and PA860 Series Planting Attachments)



1. Attach can support plate to outside of gear nest supports.
2. Detach bearing bracket and remove shaft from seed can support.
3. Attach seed tube top and seed tube to seed can.
4. Attach seed can to seed can support.
5. Insert shaft and bolt bearing bracket to seed can support.
6. Attach seed can support to can support plate.
7. Attach driven sprocket to seed shaft.
8. Attach drive sprocket to drive shaft.

NOTE: Drive shaft extensions are used to provide adequate drive shaft length. Attach drive shaft extensions and supports as shown in next column.

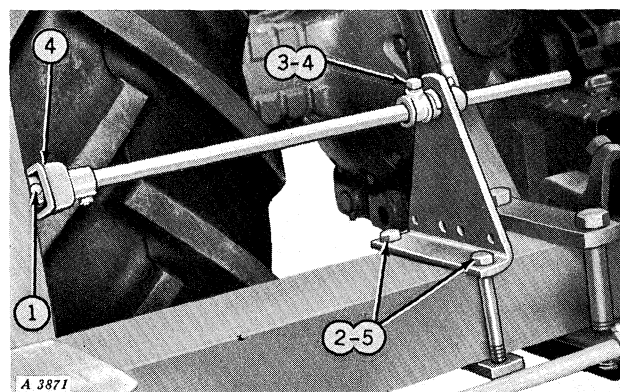
9. Attach drive chain as shown above.

NOTE: If chain is not tight, bolt two-hole strap between seed can support and can support plate.

10. Slip washer over end of seed tube and then insert seed tube into subsoiler as shown in inset in above illustration.

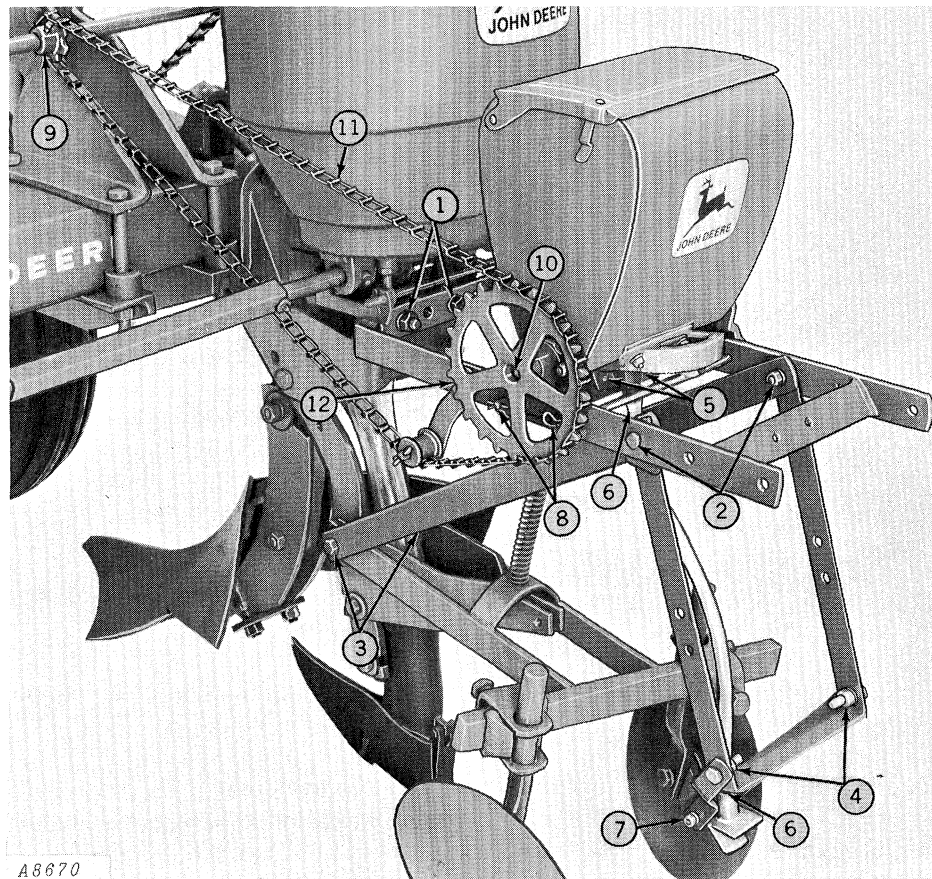
DRIVE SHAFT EXTENSION AND SUPPORT

(Required when Insecticide, Herbicide, or Insecticide and Herbicide Attachment are used on F886 Bedder or when Maize Attachment is used on F884 or F886 Bedder) (Special Equipment)



1. Attach male knuckle to drive shaft with drilled pin and cotter pin.
2. Attach shaft support to bedder bar. Leave nuts loose.
3. Slip setscrew collar over shaft extension. Insert shaft extension through shaft support bearing.
4. Slip socket of shaft extension over male knuckle. Position setscrew collar against shaft support bearing and tighten setscrew.
5. Draw up nuts on shaft support.

INSECTICIDE ATTACHMENT (Special Equipment)



1. Attach frame to gear nest supports.
2. Bolt spreader support and frame braces to frame.
3. Attach frame braces to subsoiler and gear nest support with bolts provided.
4. Bolt spreader to support.
5. Bolt insecticide spout to frame.
6. Attach delivery hose to spout and insert hose in spreader.
7. Adjust the spreader so the top is parallel to the ground. To adjust the spreader loosen the bolt, adjust

the spreader, and tighten bolt. Adjusting the spreader will vary the width of the band of insecticide being applied.

8. Attach the insecticide hopper to the frame with the pins and spring locking pins.

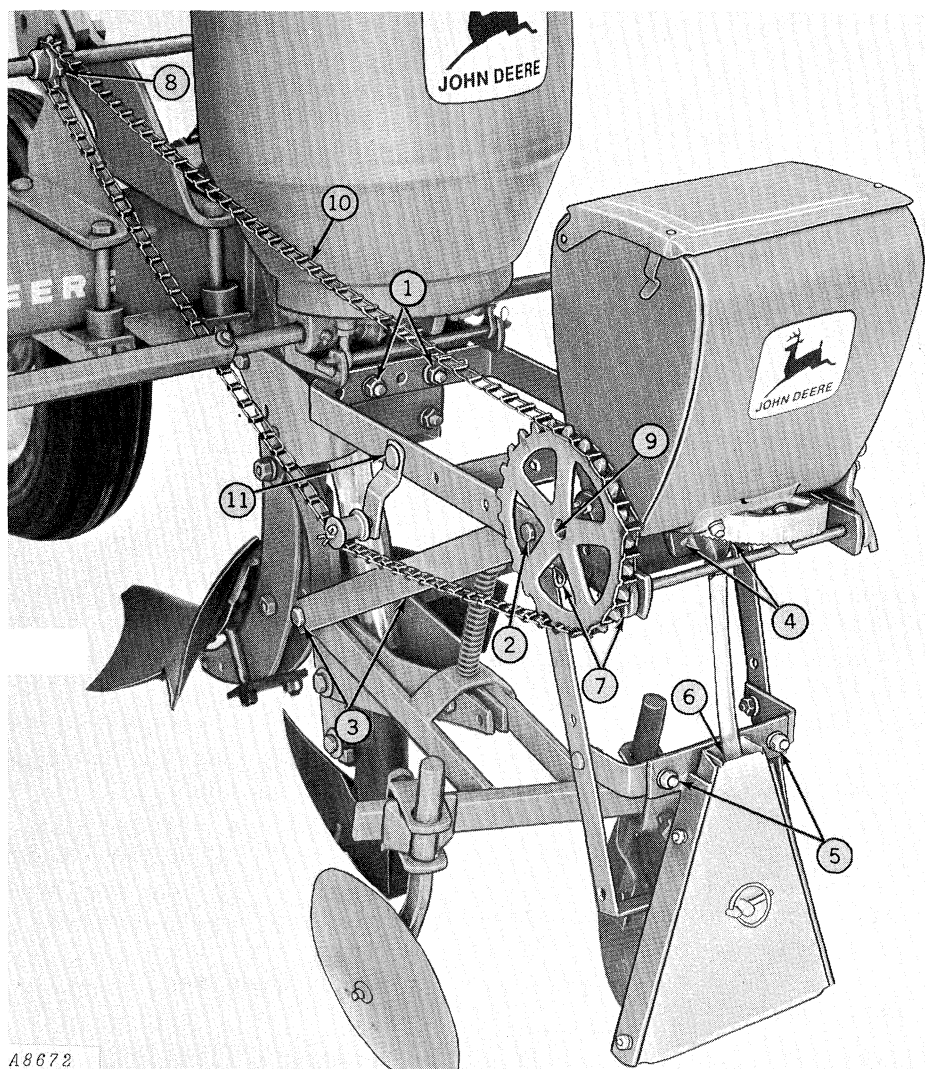
9. Attach drive sprocket to drive shaft.

10. Attach the driven sprocket.

11. Attach drive chain over the sprockets. Be sure the open end of the chain links run in the direction of travel.

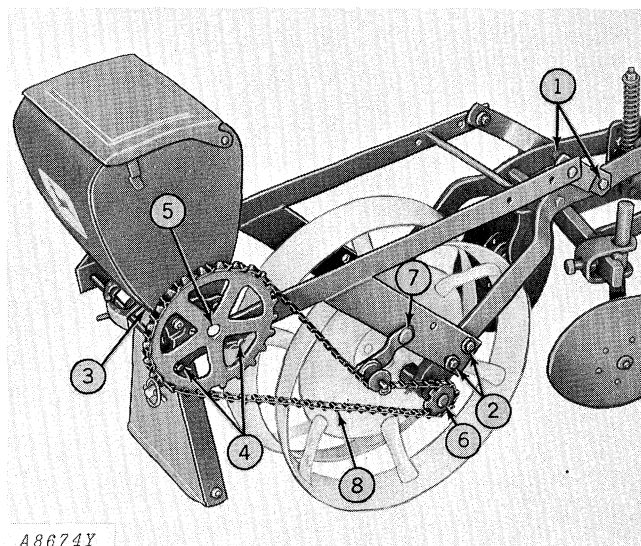
12. Tighten chain idler.

HERBICIDE ATTACHMENT (Special Equipment)



1. Attach frame to gear nest and support.
2. Bolt spreader support and frame braces to frame.
3. Attach frame braces to subsoiler and gear nest support with bolts provided.
4. Attach spout and delivery hose to frame.
5. Attach herbicide spreader to support.
6. Insert hose into spreader.
7. Attach the herbicide hopper to the frame with the pins and spring locking pins.
8. Attach drive sprocket to drive shaft.
9. Attach the driven sprocket.
10. Attach drive chain over the sprockets. Be sure the open end of the chain links run in the direction of travel.
11. Tighten chain idler.

HERBICIDE ATTACHMENT (For No. 8 Press Wheel Attachment) (Special Equipment)



1. Attach frame to wheel frame. *NOTE: It is necessary to provide two 7/16 x 1-1/4-inch cap screws (19H1821), two 7/16-inch lock washers (12H293), and two 7/16-inch hex. nuts (14H813), to attach the frame support to the wheel frame.*

2. Attach frame support to wheel frame.

3. Bolt herbicide diffuser to frame.

4. Attach the herbicide hopper to the frame with the pins and spring locking pins.

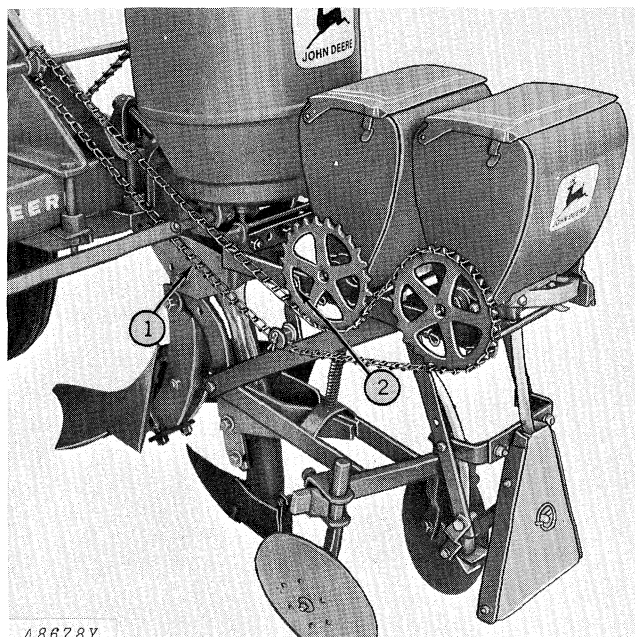
5. Install the driven sprocket.

6. If not already done, remove press wheel axle and replace with required (A13735) axle. Attach the drive sprocket on press wheel axle.

7. Bolt chain idler to rear hole in frame support.

8. Attach drive chain over the sprockets. Be sure the open end of the chain links run in the direction of travel. Tighten chain idler.

INSECTICIDE AND HERBICIDE ATTACHMENT (Special Equipment)



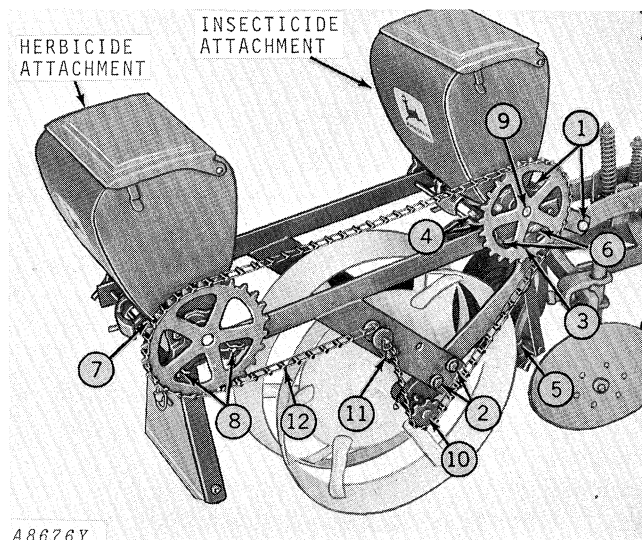
For complete assembly instructions on the Insecticide unit, see page 54.

For complete assembly instructions on the Herbicide unit, see page 55.

1. Attach drive chain over the sprockets. Be sure the open end of the chain links run in the direction of travel.

2. Tighten chain idler.

INSECTICIDE AND HERBICIDE ATTACHMENT (For No. 8 Press Wheel Attachment)

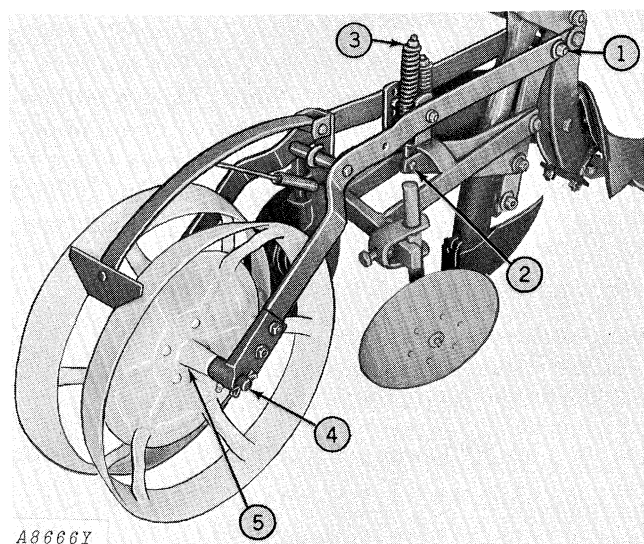


1. Attach frame support to wheel frame. *NOTE: It is necessary to provide two 7/16 x 1-1/4-inch cap screws (19H1821), two 7/16-inch lock washers*

(12H293), and two 7/16-inch hex. nuts (14H813) to attach the frame to the wheel frame.

2. Attach frame support to wheel frame.
3. Attach spreader support to wheel frame with U-bolt.
4. Bolt insecticide spout to frame.
5. Attach insecticide tube to spout and insert tube in tube holder or spreader.
6. Attach the insecticide hopper to the frame with the pins and spring locking pins.
7. Bolt herbicide diffuser to frame.
8. Attach the herbicide hopper to the frame with the pins and spring locking pins.
9. Install the driven sprockets.
10. If not already done, remove press wheel axle and replace with required (A13735) axle. Attach the drive sprocket to the press wheel axle.
11. Bolt chain idler to rear hole in frame support.
12. Attach drive chain over the sprockets. Be sure the open end of the chain links run in the direction of travel. Tighten chain idler.

NO. 8 PRESS WHEEL ATTACHMENT (Special Equipment)



1. Using bolt, spacers, and washers provided; attach press wheel frame to subsoiler support.
 2. Insert threaded end of plunger eyebolt through yoke and then attach plunger eyebolt to plunger supports.
 3. Attach plunger spring and nut.
 4. Remove cotter pin from axle and slide axle out of frame. *NOTE: If insecticide or herbicide attachments are used, the (A13735) press wheel axle must be used.*
 5. Insert press wheel in frame and push axle through wheel frame and wheel hub. Replace cotter pin. Tighten setscrew in press wheel.
 6. If wheel scraper is used, attach to frame with U-bolt supplied.
- NOTE: Wheel scraper cannot be used when insecticide attachment is used or when rubber-tired press wheel is used.*

GREASE FITTINGS

Insert grease fittings in all locations shown in the Lubrication Chart on pages 35 and 36. Apply grease and oil to all points as indicated in the chart.



Specifications

TYPES	PA824 Planting Attachment 2-Row; Corn and Cotton Cans. PA842 Planting Attachment 4-Row; Corn Cans, Hard Ground Openers. PA843 Planting Attachment 4-Row; Corn Cans. PA844 Planting Attachment 4-Row; Corn and Cotton Cans. PA862 Planting Attachment 6-Row; Corn Cans, Hard Ground Openers. PA863 Planting Attachment 6-Row; Corn Cans. PA864 Planting Attachment 6-Row; Corn and Cotton Cans. PA884 Planting Attachment 8-Row; Corn and Cotton Cans.
DRIVE	Gauge-Wheel Drive.
ROW SPACING	30- to 40-inch Rows.
DEPTH CONTROL	Gauge Wheel Controlled.
LIFT	Controlled by tractor rockshaft control lever.
SHOVEL COVERERS	Available on order in lieu of disk coverers.
KNIFE COVERERS	Available on order in lieu of disk coverers.
SPECIAL EQUIPMENT AND ATTACHMENTS	The following attachments are available for these Planting Attachments: 10 x 1-Inch rubber-tired press wheel, No. 8 press wheel, cell-drop cotton attachment, unshelled peanut attachment, pea or bean attachment, rubber cut-off and baffle plate, brush cut-off and baffle plate, vegetable and grass seed cut off, cotton picker wheel, maize cans, insecticide attachment, herbicide attachment, insecticide and herbicide attachment, 22-inch trash rods and sweep.
SUBSOILERS	Subsoiler with reversible point available on order. Subsoiler with reversible shovel and short boot available on order. Precision subsoiler with reversible runner available on order.
RUNNER OPENER AND SUPPORT	Available on order for converting Hard Ground Opener into Loose Ground Opener.

(Specifications and design subject to change without notice.)

**JOHN DEERE PA824, PA840 SERIES, PA860 SERIES AND PA884
PLANTING ATTACHMENTS**

Planting Attachment No.

Date Purchased 19.....

(To be filled in by Purchaser)

MEMORANDA

MEMORANDA

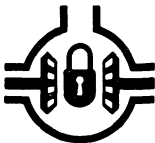
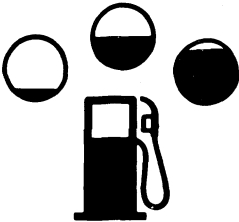
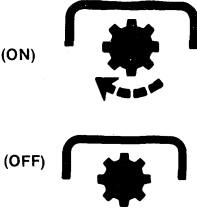
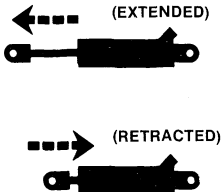
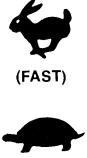
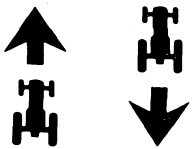
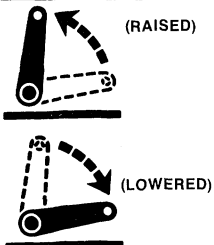
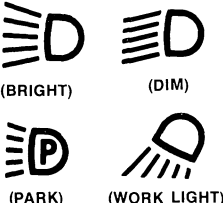
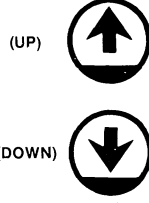
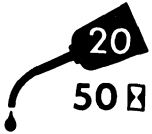
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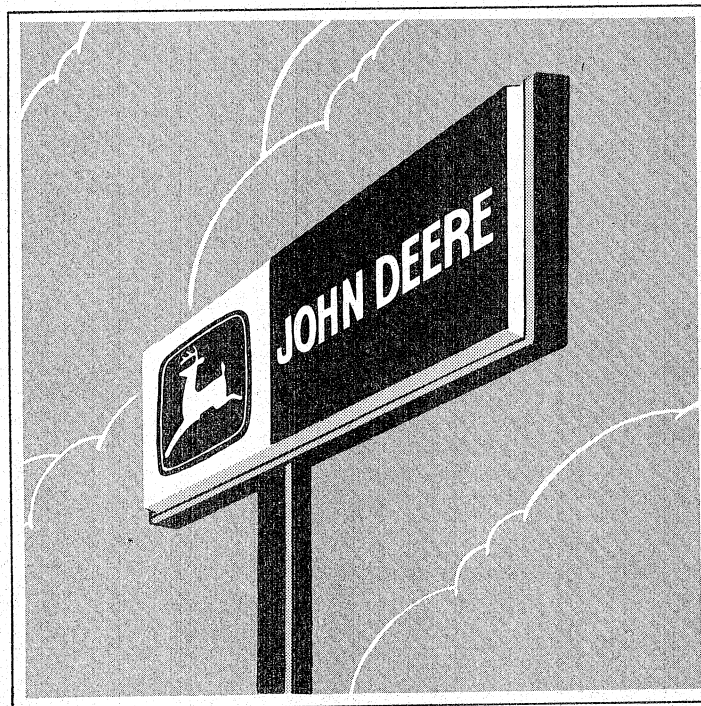
MEMORANDA

WORLDWIDE SYMBOLS FOR OPERATOR CONTROLS

Symbols instead of words; that's what John Deere is using to promote worldwide identification of operator controls. Once standardized, they give a quick, positive message anywhere in the world — without translation. Study the symbols below and learn to recognize them at a glance.

				
TRANSMISSION OIL PRESSURE	TRANSMISSION OIL TEMPERATURE	TRANSMISSION OIL FILTER	ENGINE OIL PRESSURE	ENGINE R P M
				
DIFFERENTIAL LOCK	WATER TEMPERATURE	PRESSURIZED—OPEN SLOWLY	AIR FILTER	CHOKE
				
AMMETER OR GENERATOR LIGHT	FUEL	FUEL SHUTOFF	POWER TAKE-OFF	REMOTE CYLINDER
				
SPEED RANGE	VEHICLE FORWARD VEHICLE REVERSE	NEUTRAL	PARK	ROCKSHAFT
				
LIGHTS	WINDSHIELD WIPER	WINDSHIELD DEFROSTER	IMPLEMENT MOVEMENT	CIGAR LIGHTER
				
HORN	(LOAD) (LOAD AND DEPTH) (DEPTH) ROCKSHAFT LOAD AND DEPTH CONTROL			GREASE FREQUENCY
				
				OIL TYPE AND FREQUENCY

We're here today, here tomorrow.
Only a few minutes away from you.
With a ready supply of parts, skilled service
know-how, and just-right finance plans.
You can count on us...anytime.



With John Deere Dealers
service is a profession...not a sideline.