

PARTS LIST

Setting-up and Operating Instructions for

Taylor-Way
REG. U. S. PAT. OFF.

WING-TYPE WHEEL MOUNTED TANDEM HARROW

20" OR 22" DISCS

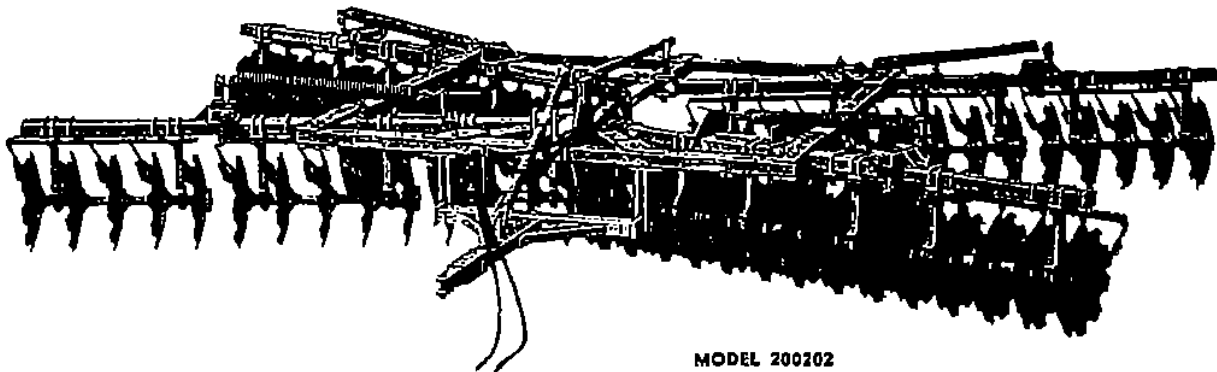
SEALED BALL BEARINGS

7 1/2" AND 9" DISC SPACING

1 1/4" SQUARE AXLE

Model Number	*Size of Wings	No. of Discs	Disc Spacing	Width of Cut	Approximate Weight 20" C.O.	22" C.O.	Suggested D.B.H.P.
200202	Basic Unit, Less Wings	36	9"	13' 7"	4520	4800	75
	With Three Disc Wings	48	9"	17' 10"	5570	5675	95
	With Four Disc Wings	52	9"	19' 4"	5770	5885	105
	With Five Disc Wings	56	9"	20' 9"	5970	6095	115
200203	Basic Unit, Less Wings	44	7 1/2"	14' 1"	4675	4775	75
	With Four Disc Wings	60	7 1/2"	18' 10"	5915	6060	95
	With Five Disc Wings	64	7 1/2"	20' 0"	6115	6260	105
	With Six Disc Wings	68	7 1/2"	21' 2"	6315	6470	115
200204	Basic Unit, Less Wings	18F, 22R	9"F, 7 1/2"R	14' 1"	4595	4690	75
	With Wings; 3-Disc Front, 4-Disc Rear	24F, 30R	9"F, 7 1/2"R	18' 10"	5740	5860	95
	With Wings; 4-Disc Front, 5-Disc Rear	26F, 32R	9"F, 7 1/2"R	20' 0"	5940	6070	105
	With Wings; 5-Disc Front, 6-Disc Rear	28F, 34R	9"F, 7 1/2"R	21' 2"	6140	6280	115

SCRAPERS AND DUAL TRANSPORT WHEELS—STANDARD EQUIPMENT. SHIPPED WITH 14" OR 15" RIMS, TIRE AND HYDRAULIC CYLINDER NOT FURNISHED.



MODEL 200202

Taylor Implement Manufacturing Company

MANUFACTURERS

TRACTOR DRAWN

Taylor-Way
REG. U. S. PAT. OFF.

IMPLEMENTS

ATHENS, TENNESSEE 37303 — PHONE (AREA CODE 615) 745-3110

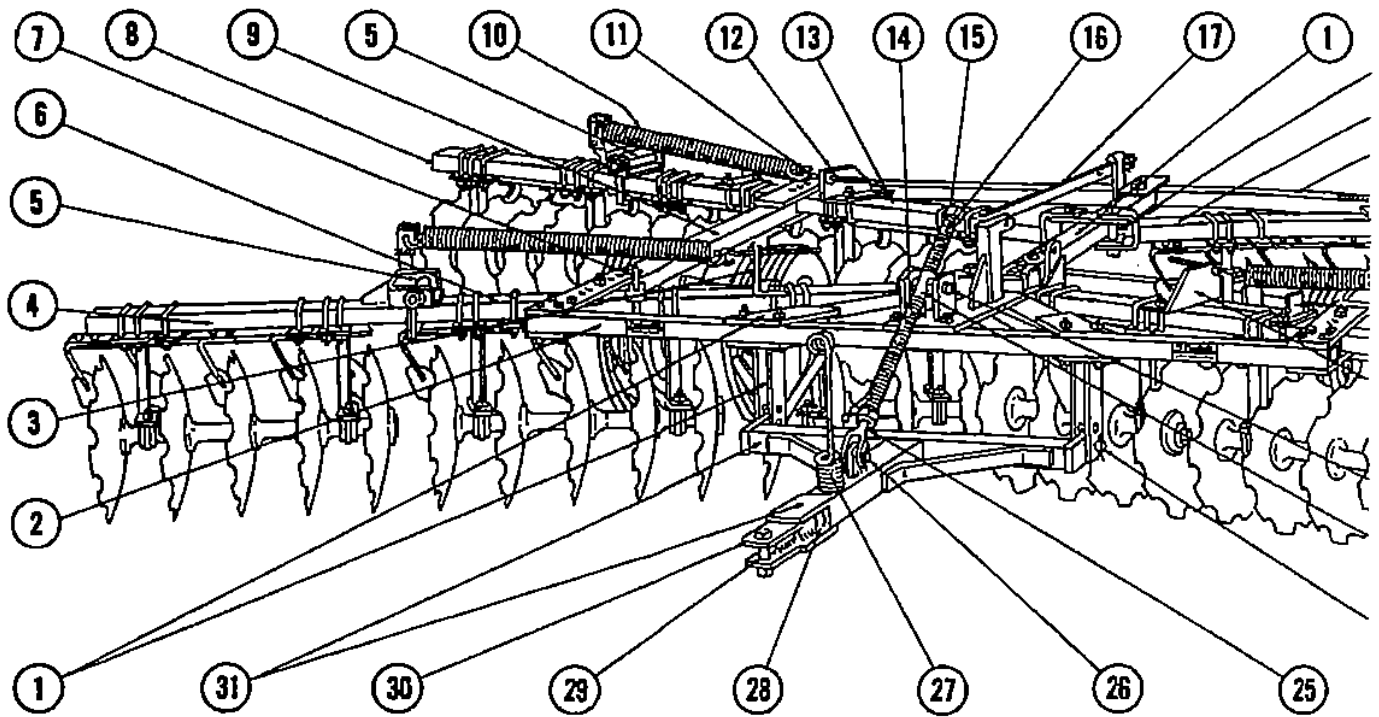


PLATE 1 — MODEL 200202 WING-TYPE WHEEL MOUNTED TANDEM H.

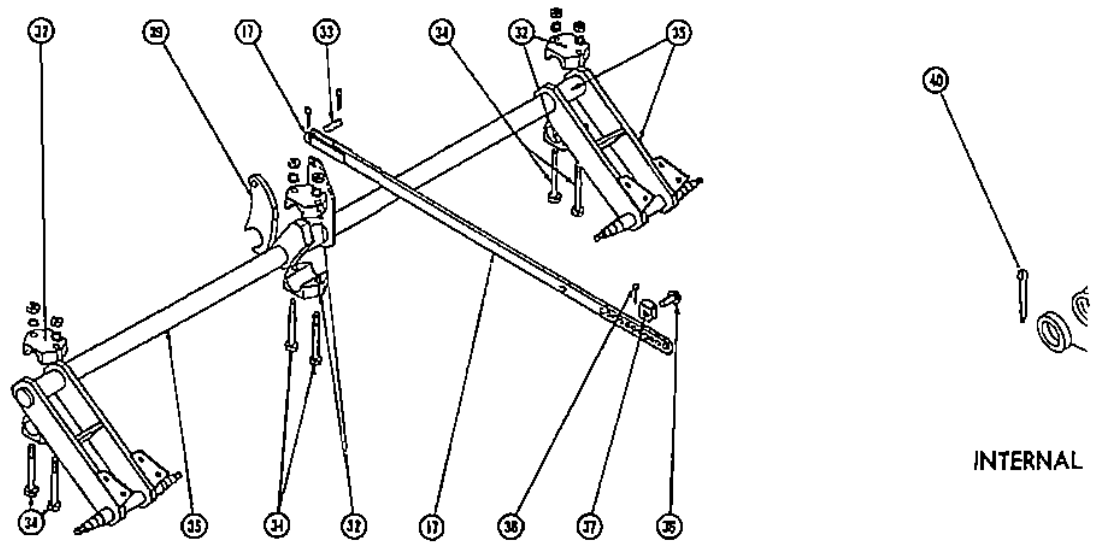


PLATE 2 — WHEEL AXLE AND DEPTH ADJUSTMENT ASSEMBLY

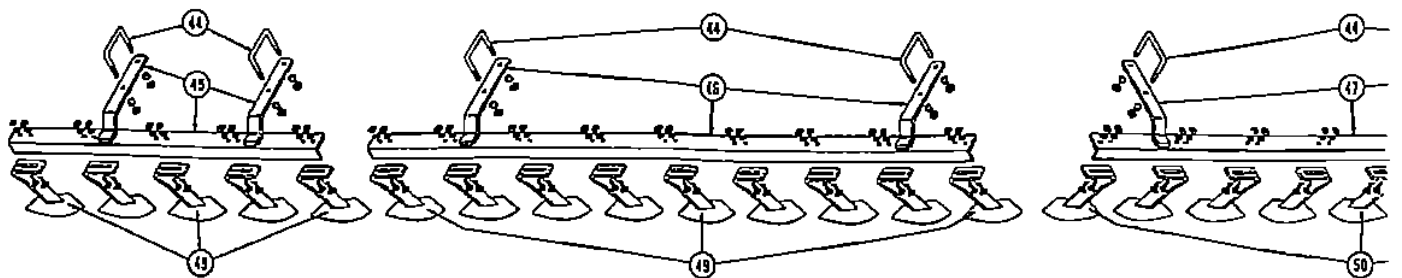
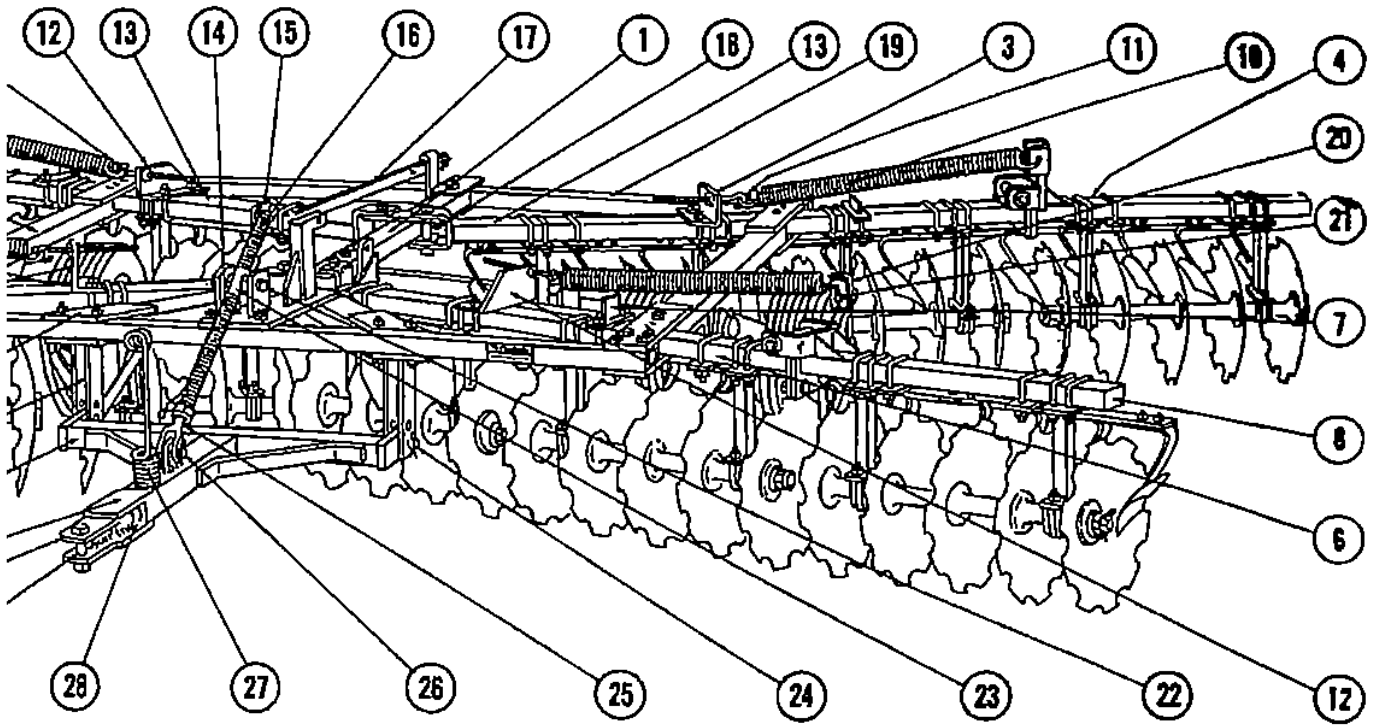
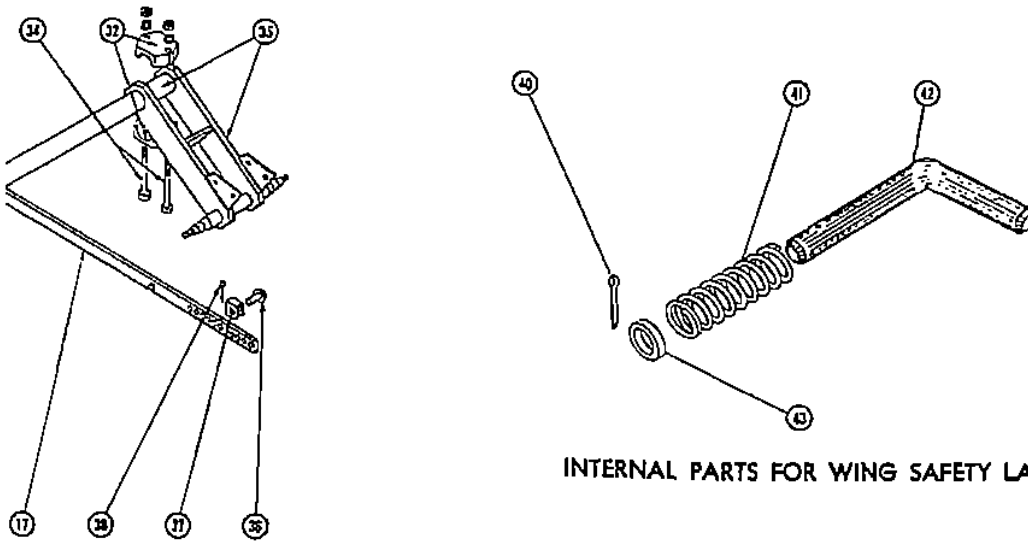


PLATE 3 — SCRAPER ASSEMBLY



— MODEL 200202 WING-TYPE WHEEL MOUNTED TANDEM HARROW



INTERNAL PARTS FOR WING SAFETY LATCH

ADJUSTMENT ASSEMBLY

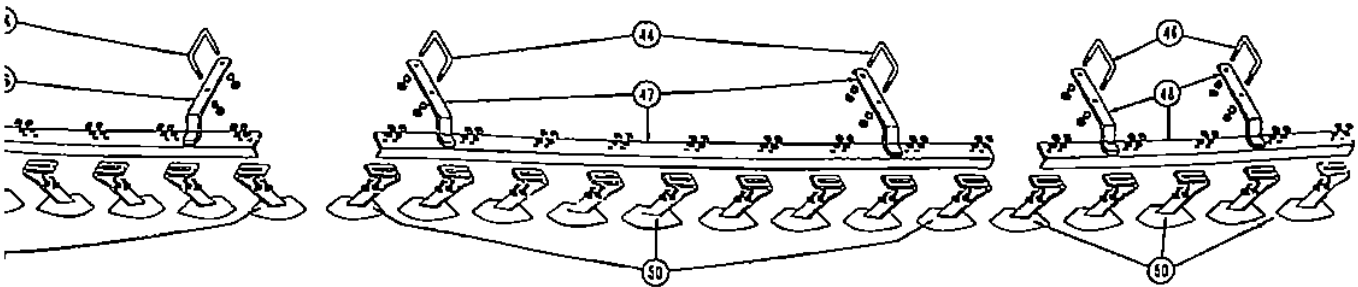


PLATE 3 — SCRAPER ASSEMBLY

Item No.	Part Number	FOR MODEL			Description	Size	Item No.	Part Number	FOR MODEL			Description	Size			
		200	202	204					200	202	204					
1	206654	1	1	1	Center Frame				1	1	1	Flat Washer	1/2"			
		2	2	2	Bolt w/Nut	3/4" x 4 1/2"			1	1	1	Lock Washer	1/2"			
		4	4	4	Bolt w/Nut	3/4" x 5 1/2"		28	206640	1	1	1	Nut	1/2"		
		6	6	6	Lock Washer	3/4"				1	1	1	Swivel Collar	3/4" x 4"		
2	206649	1	1	1	Front Cross Frame				1	1	1	Bolt w/Nut	3/4" x 4"			
		2	2	2	Eye Bolt Connector Bracket; Left				1	1	1	Lock Washer	3/4"			
		2	2	2	Eye Bolt Connector Bracket; Right				1	1	1	Clevis Bolt w/Nut and Cotter				
3	206876	2	2	2	U-Bolt w/Nuts		29	206123	1	1	1	Swivel Clevis				
		4	4	4	Lock Washer	3/4"			30	206637	1	1	1	Tongue		
4	207235	2	2	2	3-Disc, 9" Spacing or 4-Disc, 7 1/2" Spacing. Wing Gang Frame for Right Front or Left Rear.		31	206691	1	1	1	Wheel Axle Bearing (Repairs Only, used on older harrows equipped with 2 1/4" dia. Wheel Axle, Part No. 206673.)				
		2	2	2	4-Disc, 9" Spacing or 5-Disc, 7 1/2" Spacing. Wing Gang Frame for Right Front or Left Rear.				32	206786	6	6	6	Wheel Axle Bearing (Used on newer harrows with 3 1/2" dia. Wheel Axle, Part No. 207138.)		
		2	2	2	5-Disc, 9" Spacing or 6-Disc, 7 1/2" Spacing. Wing Gang Frame for Right Front or Left Rear.				207146	2	2	2	Plate			
5	207858	4	4	4	Nut	3/4"			3	3	3	Alemite, Drive-in	1/8"			
		4	4	4	Flat Washer	3/4"			33	204215	1	1	1	Depth Bar Connector Pin		
		4	4	4	Lock Washer	3/4"						2	2	2	Cotter	5/16" x 1 1/2"
		4	4	4	Wing Connector Pin	5/8" x 3"				6	6	6	Bolt w/Nut, High Tensile	3/4" x 9"		
6	206844	2	2	2	Front Gang Frame				6	6	6	Lock Washer	3/4"			
		4	4	4	Bumper				35	206673	1	1	1	Wheel Axle, 2 1/4" dia. (Discontinued, see note at bottom of page)		
7	206868	4	4	4	U-Bolt w/Nuts				207138	1	1	1	Wheel Axle, 3 1/2" dia.			
		8	8	8	Lock Washer	3/4"			203058	1	1	1	Depth Adjustment Pin			
8	207237	2	2	2	3-Disc, 9" Spacing or 4-Disc, 7 1/2" Spacing. Wing Gang Frame for Left Front or Right Rear.		37	204683	1	1	1	Depth Adjustment Cull				
		2	2	2	4-Disc, 9" Spacing or 5-Disc, 7 1/2" Spacing. Wing Gang Frame for Left Front or Right Rear.				38	205831	1	1	1	Special Cotter		
		2	2	2	5-Disc, 9" Spacing or 6-Disc, 7 1/2" Spacing. Wing Gang Frame for Left Front or Right Rear.				39	207141	1	1	1	Hydraulic Cylinder Bracket	5/32" x 1 1/2"	
9	206650	16	16	16	Nut	3/4"			40	4	4	4	Cotter			
		24	24	24	Flat Washer	3/4"			41	403177	4	4	4	Spring		
		8	8	8	Bolt w/Nut, H.T.	3/4" x 5 1/2"			42	207358	4	4	4	Keeper		
		8	8	8	Extension Spring	3/4" x 5 1/2"			43	207200	4	4	4	Washer		
10	206841	4	4	4	Eye Bolt		44	206833	16	16	16	U-Bolt w/nuts	3/4"			
		8	8	8	Nut	3/4"			32	32	32	Lock Washer	3/4"			
11	206872	4	4	4	Lock Washer	3/4"			45	207241	2	0	1	3-Disc, 9" Spacing Scraper Bar for Left Front and Right Rear Wings.		
		4	4	4	Eye Bolt Connector Bracket; Right Front, Left Rear				206882	2	0	1	4-Disc, 9" Spacing Scraper Bar for Left Front and Right Rear Wings.			
12	206873	2	2	2	U-Bolt w/Nuts				206885	2	0	1	5-Disc, 9" Spacing Scraper Bar for All Wings.			
		4	4	4	Lock Washer	3/4"			207238	0	2	1	4-Disc, 7 1/2" Spacing Scraper Bar for All Wings.			
13	206848	2	2	2	Rear Gang Frame				206766	0	2	1	5-Disc, 7 1/2" Spacing Scraper Bar for All Wings.			
		1	1	1	Bottom Spring				207036	0	2	1	6-Disc, 7 1/2" Spacing Scraper Bar for All Wings.			
14	204364	1	1	1	Special Flat Washer				46	206878	2	0	1	9-Disc, 9" Spacing Scraper Bar for All Gangs, Basic Harrow.		
		1	1	1	Nut	1 1/8"			207034	0	2	1	11-Disc, 7 1/2" Spacing Scraper Bar for All Gangs, Basic Harrow.			
15	206612	1	1	1	Top Spring				47	206878	2	0	1	9-Disc, 9" Spacing Scraper Bar for All Gangs, Basic Harrow.		
		1	1	1	Special Flat Washer				207034	0	2	1	11-Disc, 7 1/2" Spacing Scraper Bar for All Gangs, Basic Harrow.			
16	205153	1	1	1	Depth Control Bar				48	207244	2	0	1	3-Disc, 9" Spacing Scraper Bar for Right Front and Left Rear Wings.		
		1	1	1	Gang Connector Bolt	7/8" x 6 1/2"			206884	2	0	1	4-Disc, 9" Spacing Scraper Bar for Right Front and Left Rear Wings.			
17	206671	4	4	4	Hex Slotted Nut	7/8"			206885	2	0	1	5-Disc, 9" Spacing Scraper Bar for All Wings.			
		4	4	4	Cotter	3/16" x 1 1/2"			207238	0	2	1	4-Disc, 7 1/2" Spacing Scraper Bar for All Wings.			
18	206758	4	4	4	Gang Connector Bushing				206766	0	2	1	5-Disc, 7 1/2" Spacing Scraper Bar for All Wings.			
		1	1	1	Rear Cross Frame				207036	0	2	1	6-Disc, 7 1/2" Spacing Scraper Bar for All Wings.			
19	206667	1	1	1	Bolt w/Nut	3/4" x 5 1/2"			49	207603	28	34	31	Left Scraper (Maximum quantities shown).		
		1	1	1	Lock Washer	3/4"			56	68	62	Carriage Bolt w/Nut	1/2" x 1 3/4"			
20	206871	4	4	4	Spring Hinge				56	68	62	Flat Washer	1/2"			
		4	4	4	Spring Hinge Pin				56	68	62	Lock Washer	1/2"			
21	204021	4	4	4	Cotter	5/16" x 1 1/2"			28	34	31	Right Scraper (Maximum quantities shown).				
		2	2	2	Shoulder Bolt	7/8"			56	68	62	Carriage Bolt w/Nut	1/2" x 1 3/4"			
22	203748	2	2	2	Lock Washer	7/8"			56	68	62	Flat Washer	1/2"			
		1	1	1	Spring Rod Slide				56	68	62	Lock Washer	1/2"			
23	203742	1	1	1	Alemite, Drive-in	1/8"			28	34	31	Right Scraper (Maximum quantities shown).				
		1	1	1	Tongue Connector Pin	3/8" x 2"			56	68	62	Carriage Bolt w/Nut	1/2" x 1 3/4"			
24	206666	2	2	2	Cotter	3/8" x 2"			56	68	62	Flat Washer	1/2"			
		4	4	4	Spring Rod Adjustment				56	68	62	Lock Washer	1/2"			
25	206808	1	1	1	Spring Rod Pin				56	68	62	Flat Washer	1/2"			
		2	2	2	Cotter	5/16" x 1 1/2"			56	68	62	Lock Washer	1/2"			
26	203100	2	2	2	Cotter	5/16" x 1 1/2"										
53		1	1	1	Hose Holder											

Note: Part No. 206673 has been discontinued. When ordering replacement parts for 206673 order one Part No. 207138, Wheel Axle, six Part No. 207010, Wheel Axle Bearing, and six 3/4" x 9" Bolt w/Nut, High Tensile. Three 13/16" holes, one in each Side Frame and the Center Frame, must be drilled in older harrows to accommodate Part No. 207010, Wheel Axle Bearing.

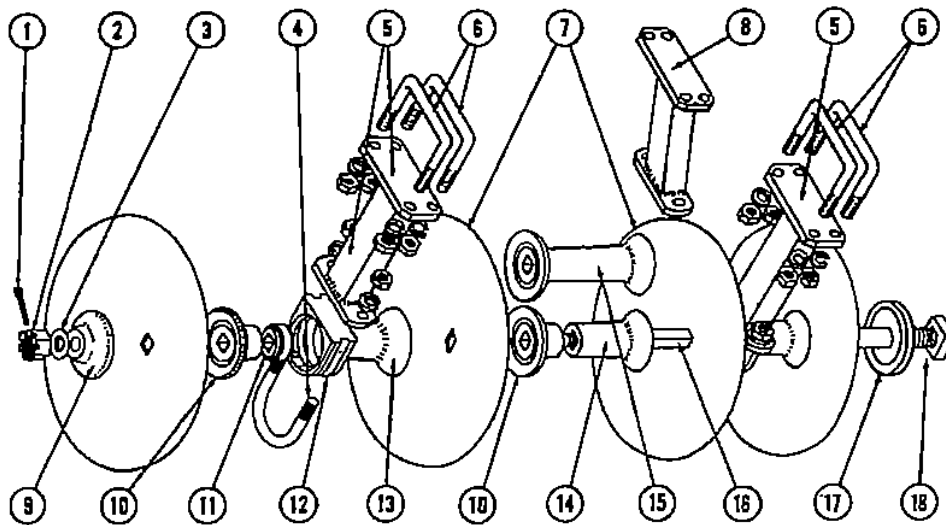


PLATE 4 — DISC GANG ASSEMBLY

Item No.	Part Number	FOR MODEL			Description	Size	Item No.	Part Number	FOR MODEL			Description	Size
		200	203	204					200	203	204		
1	12 12 12				Cotter	3/16" x 2"	10	205486	44 56 50		Concave Spacer, 7 1/2" or 9" Spacing		
2	12 12 12				Hex Slotted Nut	1 1/8"	11	204147	24 24 24		Ball Bearing		
3	12 12 12				Flat Washer	1 1/8"	12	205722	24 24 24		Bearing Holder		
4	205828	24 24 24			U-Bolt w/Nuts	3/8"	13	206826	24 0 12		Short Convex Spacer, 9" Spacing		
		48 48 48			Lock Washer			205489	0 24 12		Short Convex Spacer, 7 1/2" Spacing		
5	206850	24 22 24			Bearing Connector		14	205488	20 32 16		Long Convex Spacer, 7 1/2" Spacing		
6	206833	48 48 48			U-Bolt w/Nuts	3/4"	15	207344	24 0 12		Long Double End Spacer, 9" Spacing		
		96 96 96			Lock Washer			207525	4 0 2		3-Disc Axle, 9" Spacing, 23 1/16"		
7	204004	56 68 62			20" Plain Round Disc		16	206626	8 0 4		4-Disc Axle, 9" Spacing, 32 1/16"		
	204003	56 68 62			20" Cut-Out Disc			206627	8 0 4		5-Disc Axle, 9" Spacing, 41 1/16"		
	204010	56 68 62			22" Plain Round Disc			207526	0 4 2		4-Disc Axle, 7 1/2" Spacing, 27 9/16"		
	205020	56 68 62			22" Plain Round Disc, Heavy-Duty			207038	0 8 4		5-Disc Axle, 7 1/2" Spacing, 35 1/16"		
	204005	56 68 62			22" Cut-Out Disc			207039	0 8 4		6-Disc Axle, 7 1/2" Spacing, 42 15/16"		
	205005	56 68 62			22" Cut-Out Disc, Heavy-Duty		17	206613	12 12 12		Butt-Plate		
8	207032	0 2 0			Offset Bearing Connector, Used Only on Inside Front Disc Gang Assemblies.		18		12 12 12		Square Nut	1 1/8"	
9	204704	12 12 12			End Washer								

Note: Quantities listed above are maximum quantities for harrows when equipped with 4, 5, and 6-disc wings.

Item No.	Part Number	FOR MODEL			Description	Size
		200	203	204		
1	205993	4 4 4			14" Wheel for Rubber	
	205992	4 4 4			15" Wheel for Rubber	
2	403817	24 24 24			Lug Bolt	
3	204515	4 4 4			Wheel Hub W/Two Cups	
4	204523	4 4 4			Hub Cap	
5	204522	4 4 4			Bearing Adjustment Nut	
		4 4 4			Cotter	5/32" x 1 1/2"
6	204521	4 4 4			Special Flat Washer	
7	204524	4 4 4			Bearing Cone	
8	203021	4 4 4			Bearing Cup	
9	204526	4 4 4			Bearing Cone	
10	204525	4 4 4			Bearing Cup	
11	204527	4 4 4			Grease Seal	
12	206443	2 2 2			Stub Axle (Sub Assembly for Wheel Axle, Part Nos. 206673 & 207138, Item 35, Plate 2)	
13	204520	4 4 4			Dust Collar	

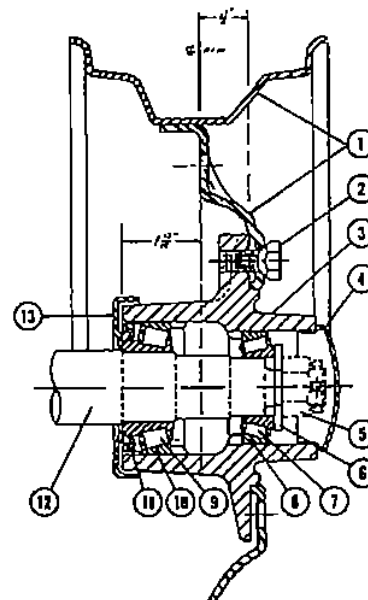


PLATE 5 — WHEEL HUB ASSEMBLY

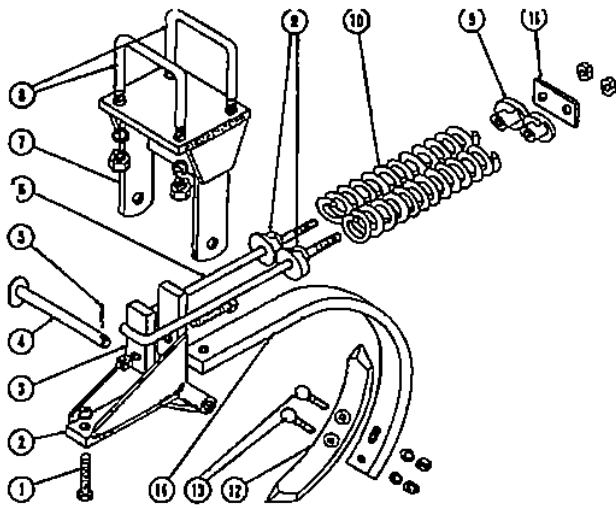


PLATE 6 — BALK BREAKER ATTACHMENT — MACH. NO. 299049

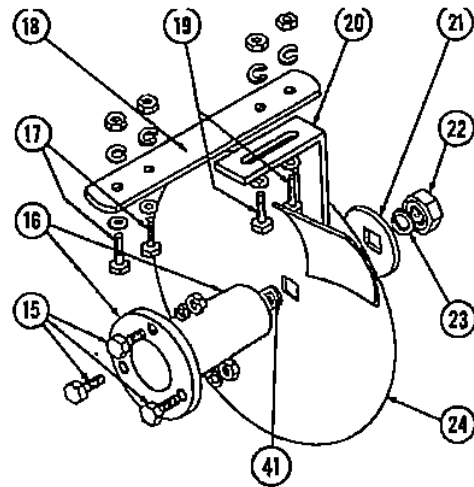


PLATE 7 — FURROW FILLER ATTACHMENT — MACH. NO. 200080

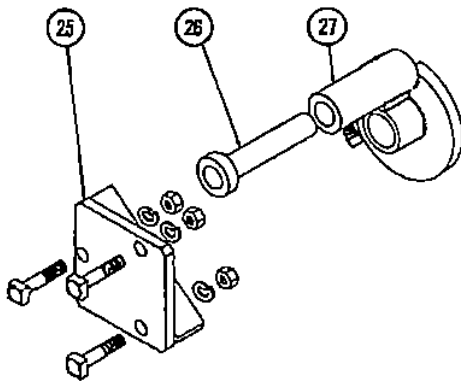


PLATE 8 — GANG COUPLER MACH. NO. 200092

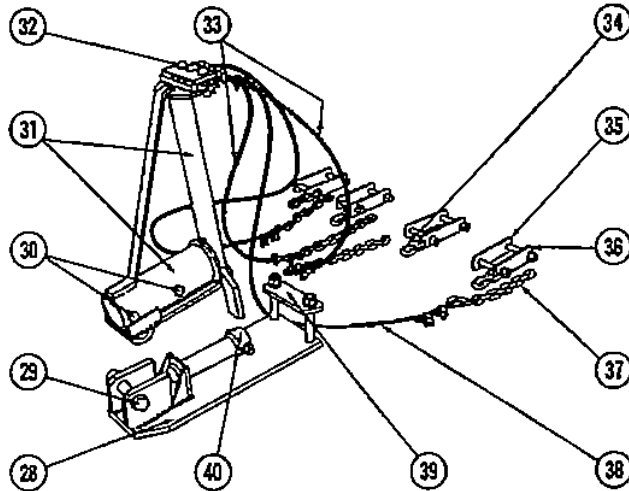


PLATE 9 — M-F PRESSURE CONTROL ATTACHMENT — MACH. NO. 299047

Item No.	Part Number	FOR MODEL			Description	Size	Item No.	Part Number	FOR MODEL			Description	Size
		200 201	200 202	200 204					200 201	200 203	200 204		
1		2	2	2	Bolt	5/8" x 2 1/4"	25	207315	8	8	8	Butt Plate Drive (Maximum quantities shown)	
2	207496	1	1	1	Lock Nut	5/8"			24	24	24	Bolt w/Nut	1/2" x 1 1/2"
3	207498	1	1	1	Shank Hinge Assembly				24	24	24	Lock Washer	1/2"
4	206507	1	1	1	Upright				8	8	8	Adjustable Reach Rod (Maximum quantities shown)	
5		1	1	1	Hinge Pin				8	8	8	End Washer Drive (Maximum quantities shown)	
6	603012	1	1	1	Cotter	5/16" x 1 1/2"			16	16	16	Set Screw	1/8" x 1 1/2"
7	607403	1	1	1	U-Bolt w/Nuts	3/8"			2	2	2	Adapter Plate	1/2" x 5 1/2"
8	206326	2	2	2	Balk Breaker Anchor Assembly	3/8"			2	2	2	Bolt w/Nut	1/2" x 5 1/2"
9	603009	4	4	4	U-Bolt w/Nuts	3/8"			1	1	1	Lock Washer	1" x 5"
10	603011	4	4	4	Lock Washer	3/8"			2	2	2	Bolt w/Nut	1" x 5"
11	603059	4	4	4	Spring Cap				1	1	1	Lock Washer	1" x 5"
12	206723	1	1	1	Compression Spring				2	2	2	Bolt w/Nut	1" x 5"
13		2	2	2	Strap	7/16" x 2 1/4"			2	2	2	Lock Washer	1" x 5"
14	207516	2	2	2	Clblad	7/16"			2	2	2	Bolt w/Nut	1" x 5"
15		1	1	1	Flow Bolt w/Nuts - High Tensile	7/16" x 2 1/4"			2	2	2	Lock Washer	1" x 5"
16	206629	6	6	6	Lock Washer	7/16"			1	1	1	Conn Adapter	
17		6	6	6	12" Shank	1/2" x 1 1/2"			3	3	3	Button Head Rivet	
18	206797	2	2	2	Bolt w/Nut	1/2" x 1 1/2"			3	3	3	Special Cotter	
19		6	6	6	Lock Washer	1/2"			1	1	1	Center Cable	
20		2	2	2	Furrow Filler Spacer	1/2" x 2"			6	6	6	Wire Rope Thimble	3/4"
21		2	2	2	Bolt w/Nut	1/2" x 2"			6	6	6	Cable Clip w/Nuts	3/4"
22		2	2	2	Flat Washer	1/2"			4	4	4	Clevis Hook, Grab	5/16"
23		2	2	2	Lock Washer	1/2"			4	4	4	Bottom Strap	
24		2	2	2	Furrow Filler Scraper Bar	1/2" x 1 1/2"			4	4	4	Top Strap	
25		2	2	2	Bolt w/Nut	1/2" x 1 1/2"			8	8	8	Bolt w/Nut	3/4" x 5"
26		2	2	2	Flat Washer	1/2"			8	8	8	Lock Washer	3/4"
27		2	2	2	Lock Washer	1/2"			4	4	4	Adjustment Chain	
28	204209	1	1	1	Right Scraper, For Left Rear				2	2	2	Outside Cable	1/2"
29	204911	1	1	1	Left Scraper, For Right Rear				2	2	2	Wire Rope Thimble	3/4"
30	203986	2	2	2	Furrow Filler Butt Plate				8	8	8	Cable Clip w/Nuts	3/4"
31		2	2	2	Hex Nut	1/2"			1	1	1	Strap	
32		2	2	2	Lock Washer	1/2"			1	1	1	Not Furnished, see Item Number 28, Page 3	
33		2	2	2	16" Round Disc				2	2	2	Bolt	1/2" x 2 1/2"
34		2	2	2	18" Round Disc				2	2	2		

SETTING-UP INSTRUCTIONS

Wing-Type Wheel Mounted Tandem Harrow

MODELS 200202-204

General

Right and left are determined by standing at the rear of the harrow. All items designated as right and left fit into their respective positions on the front section. When used on the rear section, the procedure is reversed and items designated as right will fit onto the left side and vice versa.

These harrows are shipped "Knocked Down" and are bundled into the bundles listed below:

Bundle Number	Bdls. Req'd.			Description
	200	202	204	
200908	1	1	1	Tongue
200909	1	1	1	Front and Rear Cross Frames
200910	1	1	1	Center Frame
200911	1	1	1	Side Frames
200912	1	1	1	Wheel Axle Assembly
200595	4	4	4	14" Rims*
200596	4	4	4	15" Rims*
200993	1	0	1	Right Front Disc Gang, 9" Spacing
200994	1	0	1	Left Front Disc Gang, 9" Spacing
200995	1	0	0	Right Rear Disc Gang, 9" Spacing
200996	1	0	0	Left Rear Disc Gang, 9" Spacing
200997	1	0	1	Right Front 3-Disc Wing, 9" Spacing
200998	1	0	1	Left Front 3-Disc Wing, 9" Spacing
200999	1	0	0	Right Rear 3-Disc Wing, 9" Spacing
201000	1	0	0	Left Rear 3-Disc Wing, 9" Spacing
201001	1	0	1	Right Front 4-Disc Wing, 9" Spacing
201002	1	0	1	Left Front 4-Disc Wing, 9" Spacing
201003	1	0	0	Right Rear 4-Disc Wing, 9" Spacing
201004	1	0	0	Left Rear 4-Disc Wing, 9" Spacing
201005	1	0	1	Right Front 5-Disc Wing, 9" Spacing
201006	1	0	1	Left Front 5-Disc Wing, 9" Spacing
201007	1	0	0	Right Rear 5-Disc Wing, 9" Spacing
201008	1	0	0	Left Rear 5-Disc Wing, 9" Spacing
201009	0	1	0	Right Front Disc Gang, 7 1/2" Spacing
201010	0	1	0	Left Front Disc Gang, 7 1/2" Spacing
201011	0	1	1	Right Rear Disc Gang, 7 1/2" Spacing
201012	0	1	1	Left Rear Disc Gang, 7 1/2" Spacing
201013	0	1	0	Right Front 4-Disc Wing, 7 1/2" Spacing
201014	0	1	0	Left Front 4-Disc Wing, 7 1/2" Spacing
201015	0	1	1	Right Rear 4-Disc Wing, 7 1/2" Spacing
201016	0	1	1	Left Rear 4-Disc Wing, 7 1/2" Spacing
201017	0	1	0	Right Front 5-Disc Wing, 7 1/2" Spacing
201018	0	1	0	Left Front 5-Disc Wing, 7 1/2" Spacing
201019	0	1	1	Right Rear 5-Disc Wing, 7 1/2" Spacing
201020	0	1	1	Left Rear 5-Disc Wing, 7 1/2" Spacing
201021	0	1	0	Right Front 6-Disc Wing, 7 1/2" Spacing
201022	0	1	0	Left Front 6-Disc Wing, 7 1/2" Spacing
201023	0	1	1	Right Rear 6-Disc Wing, 7 1/2" Spacing
201024	0	1	1	Left Rear 6-Disc Wing, 7 1/2" Spacing
201025	1	1	1	Wing Springs

* Denotes Optional Rims

If implements are ordered with Extra Equipment these bundles will be shipped as shown below.

Extra Equipment

- Machinery No. 299047—M-F Pressure Control Attachment
 Machinery No. 299049—Balk Breaker Attachment
 Machinery No. 200080—Furrow Filler Attachment, less Disc.
 Furrow Filler Attachment, w/16" Rd. Disc
 Furrow Filler Attachment, w/18" Rd. Disc
 Machinery No. 200092—Gang Coupler, Used to connect split gangs together, one connector required for each set of gangs connected. When shipped assembled on implement, these are included in the disc gang bundle.

Bundle Number	Bdls. Req'd.			Description
	202	259	299 210 080	
201051	1	0	0	Gang Coupler
201165	0	1	0	Balk Breaker Attachment
201030	0	0	1	M-F Pressure Control Attachment
201031	0	0	1	Cable Bundle
201048	0	0	1	Furrow Filler Attachment, Less Disc
201049	0	0	1	Furrow Filler Attachment, w/16" Rd. Disc
201050	0	0	1	Furrow Filler Attachment, w/18" Rd. Disc

Basic Harrow Assembly

Remove all bundling wire and proceed as follows:

- Position the Right and Left Front Gang Assemblies (Item 6, Plate 1; Plate 4) so they will be in their approximate position as shown in Plate 1. Block up the assemblies so they will be in an upright position. Remove the Gang Bolts and Bushings (Item 18, Plate 1) and attach the ends of each Front Gang Assembly onto the brackets provided on the Center Frame (Item 1, Plate 1). Secure with the Gang Bolts and Bushings previously removed.
- Set the Right and Left Rear Gang Assemblies (Item 13, Plate 1; Plate 4) in position as described above and secure to the Center Frame as shown on Plate 1.
- Remove the five bolts in each end of the Side Frames (Item 9, Plate 1) and slide each end of the Side Frames over the Gang Frames (Items 6 & 13, Plate 1) with the Wheel Axle Bearings (Item 32, Plate 2) down and forward. To accomplish this, rotate the Gang Frames in or out so the Side Frames can slide into position. After the Side Frames have been placed into position, close in the Gang Frame Assemblies as much as possible.
- Remove the bolts in the front of the Center Frame and insert the Front Cross Frame (Item 2, Plate 1) as shown. Align all holes in the Front Cross Frame with the holes in the Center Frame and Side Frames. Bolt into position but do not tighten the bolts.
- Remove the bolt in the Rear Cross Frames (Item 19, Plate 1) and attach the Rear Cross Frame onto the Center Frame and Side Frames as shown. Bolt into position but do not tighten the bolts.
- Remove the Wheel Axle Bearings (Item 32, Plate 2) from the Side Frames and Center Frame. Position the Wheel Axle Assembly (Item 35, Plate 2; Plate 5) under the Side Frames and Center Frame and secure in place with the Wheel Axle Bearings and bolts provided.
- Remove the two Pins (Item 24, Plate 1) from the tongue connector brackets of the Center Frame and pin the Tongue (Item 31, Plate 1) into position at these points with the spring rod connector bracket on top of the Tongue. Pin the Spring Rod Assembly onto the Tongue with the Pin (Item 26, Plate 1) as shown. Secure the top of the Spring Rod Assembly to the top of the Center Frame as shown with the two Shoulder Bolts (Item 22, Plate 1).
- Remove the Pin (Item 33, Plate 2) and the Depth Adjustment Cuff, Pin, and Cotter (Items 35-38, Plate 2). Place the rear of the Depth Adjustment Bar through the opening provided at the rear of the Center Frame. Connect the front of the Depth Adjustment Bar to the bracket provided on the Wheel Axle and secure with the Pin and Cotter provided. Replace the Depth Adjustment Cuff, Pin and Cotter on the Depth Adjustment Bar behind the opening provided on the rear of the Center Frame.
- Shift the Front and Rear Gang Assemblies until the desired amount of angle is reached in each gang. Both Front Gang Assemblies should have the same amount of angle and both Rear Gang Assemblies should have the same amount of angle. Tighten the Gang Assemblies into position with the 3/4" x 5 1/2" bolts by placing one bolt through the holes provided in the Side Frames and behind the Gang Frames.
- Adjust all Scrapers, mount Wheels and tighten all bolts. Grease harrow at all Alemite fittings.

Wing Assembly

- Remove the Wing Connector Pin (Item 5, Plate 1) and the two 3/4" nuts from each Wing Gang Frame (Items 4 & 8, Plate 1). Place the Wing Assemblies in their respective positions and pin into position with the Wing Connector Pins.
- Place one end of the Extension Spring (Item 10, Plate 1) thru the Spring Hinge (Item 20, Plate 1). Remove the outside nut and lock washer from the Eye Bolt and insert the Eye Bolt into the hole provided in the Eye Bolt Connector Bracket (Item 3, Plate 1) with the eye to the outside of the harrow. Connect the loose end of the Extension Spring to the Eye Bolt and secure the Eye Bolt to the Eye Bolt Connector Bracket with the nut and lock washer previously removed. This procedure applies for all four Wing Assemblies.
- Adjust the tension in the Extension Springs with the Eye Bolts until the Wing Assemblies can be raised and lowered easily. If necessary the Eye Bolt Connector Brackets may

- be moved in or out on the Gang Frames as required.
4. Replace the nuts and washers on the bolts extending out from the Wing Gang Frames. Adjust the Scrapers and tighten all bolts.

Attachments

BALK BREAKER ATTACHMENT, MACHINERY NO. 200087: Remove the two U-Bolts (Item 3, Plate 5) from the Balk Breaker Connector (Item 1, Plate 6). Mount the Balk Breaker Attachment on the Center Frame (Item 1, Plate 1) directly behind the Wheel Axle Bearings (Item 32, Plate 2) and secure in place with the two U-Bolts previously removed.

FURROW FILLER ATTACHMENT, MACHINERY NO. 200080: Remove the three $\frac{1}{2}$ " x $1\frac{1}{4}$ " Bolts (Item 7, Plate 7) from each Furrow Filler Spacer (Item 8, Plate 7). Mount the Furrow Filler Spacers onto the Butt-Plates (Item 16, Plate 4) on the outside rear of the harrow. To mount the Furrow Filler Spacers insert the heads of the $\frac{1}{2}$ " x $1\frac{1}{4}$ " Bolts into the three slots provided on the outside of each Butt-Plate and secure the Furrow Filler Spacers to the Butt-Plates. Mount the Discs (Item 16, Plate 7) onto the Furrow Filler Spacers and tighten into position, using the Furrow Filler Butt-Plates, Lock Washers and Nuts (Items 13-15, Plate 7) provided. Any Disc with a $\frac{7}{8}$ " Square Center Hole can be used. For best results, use a Disc that is 4"-6" smaller than the Discs on the harrow. To mount the Furrow Filler Scrapers (Item 12, Plate 7) onto the harrow, remove the outside Scrapers (Items 49 & 50, Plate 3) on the outside rear of the harrow and mount the Furrow Filler Scraper Bars (Item 10, Plate 7) onto the Scraper Bars (Items 45 & 48, Plate 3) with the sides with three holes to the inside. Use the second and third holes to attach the Furrow Filler Scraper Bars. Tighten into position with the Scrapers previously removed. Attach the Furrow Filler Scrapers (Item 12, Plate 7) to the Furrow Filler Scraper Bars, adjust and tighten all bolts.

GANG COUPLER, MACHINERY NO. 200092:

1. Remove the nut, washer and end washer (Items 2, 3 and 9, Plate 4) from the axle (Item 15, Plate 4) in the opening where the two axles are to be connected. Slip the axle (Item 15, Plate 4) back approximately $1\frac{1}{2}$ ". This will give sufficient clearance to install the coupler. *On the front gangs, start on the outside and work to the inside. On the rear gangs start on the inside and work to the outside.*
2. With the bolts provided, mount the butt plate driver (Item 17, Plate 8) to the butt plate (Item 16, Plate 4). Tighten

all bolts evenly and securely. Replace the end washer (Item 9, Plate 4) with the end washer drive (Item 19, Plate 8) of the coupler. *Do not remove the adjustable reach rod (Item 18, Plate 8) before installation of the end washer drive.*

3. Slip the axle back into its original position and replace the washer and nut (Item 2 and 3, Plate 4). Tighten securely.
4. Loosen the two $\frac{1}{8}$ " set screws and slide the adjustable reach rod (Item 18, Plate 8) out until it engages either side of the Butt Plate driver (Item 17, Plate 8). Catch as much as possible, but do not let the adjustable rod strike the nuts holding the butt plate driver. Securely tighten set screws.

M-F PRESSURE CONTROL ATTACHMENT, MACHINERY NO. 200082: Remove the Swivel Clevis (Item 30, Plate 1) and the Swivel Collar (Item 28, Plate 1) from the Tongue (Item 31, Plate 1). Remove the two bolts securing the strap (Item 31, Plate 9) to the Adapter Plate (Item 20, Plate 1). Mount the Adapter Plate under the Tongue so that the long pin located on the top front of the adapter plate will fit into the same position as the swivel clevis previously removed. Replace the swivel collar and bolt formerly used to hold the swivel clevis. Place the strap (Item 31, Plate 9) on top of the tongue and secure with the bolts previously removed. Tighten these bolts securely. Remove the bolt (Item 21, Plate 9) and mount the Cone Adapter (Item 23, Plate 9) on top of the tongue and adapter plate. Replace the bolt previously removed passing it through the loop on the bottom front of the Cone Adapter.

Mount two of the hooks and straps (Items 26, 27, and 28, Plate 9) on the cross bar of the tongue approximately 10" from each end with the hooks on top and to the front. Mount the other two hooks and straps on the rear cross frame (Item 19, Plate 1) approximately 15" from each end of the rear cross frame, measured from the inside edge of the side frames.

Install the short center cable (Item 25, Plate 9) in the top of the Cone Adapter, using the center Rivet (Item 24, Plate 9). Install the two long cables (Item 30, Plate 9) in the adapter using the two outside rivets. Hook the chains on the center cable in the hooks on the cross bar of the tongue. Hook the chains on the long cables in the hooks on the rear cross frame. Usually, the short cable is hooked as short as possible. After the pressure is applied, the long cables are adjusted to get the desired performance from the harrow. However, both sets of cables can be adjusted if necessary. *Always have the two front chains and the two rear chains hooked the same length.*

OPERATING INSTRUCTIONS

Wing-Type Wheel Mounted Tandem Harrow

MODELS 200202-204

Front to Rear Leveling

To level the harrow from front to rear, use the Spring Adjusting Rod (Item 25, Plate 1). Loosen the $1\frac{3}{8}$ " Nut (Item 15, Plate 1) so that no pressure is exerted on the Top Spring (Item 16, Plate 1) when the harrow is down and in its plowing position. With the Top Spring loose, tighten the Bottom Spring (Item 14, Plate 1) by screwing up on the Wing Nut located on the Spring Adjusting Rod to increase the cutting depth of the rear section. To decrease the cutting depth of the rear section, loosen the Bottom Spring by screwing down on the Wing Nut. After the cutting depth has been adjusted, lift the harrow to its transport position and tighten the Top Spring by screwing down on the $1\frac{3}{8}$ " Nut located on top of the Spring Adjusting Rod until the harrow is approximately level.

If the Tongue (Item 31, Plate 1) needs to be adjusted to compensate for the draw bar height of the tractor, remove the two Pins (Item 24, Plate 1) securing the Tongue to the Center Frame (Item 1, Plate 1) and move the Tongue up or down as required.

Depth of Cut

The depth of cut is controlled by the use of a ASAE standard 8" stroke single or double action Hydraulic Cylinder with a $3\frac{3}{8}$ " or larger bore or by use of the Depth Adjustment bar, Cuff, Pin and Cotter (Items 36-38, Plate 2). To adjust the depth

of cut using the Depth Adjustment Bar, remove the Depth Adjustment Pin and Cotter and slide the Depth Adjustment Cuff forward to decrease the depth of cut, and to the rear to increase the depth of cut. For transport, move the Depth Adjustment Cuff to the foremost hole. Never pin the Depth Adjustment Cuff in front of the slide which the Depth Adjustment Bar travels through on the rear of the harrow. Also, do not place a wedge or any other object between the rear Hydraulic Cylinder Bracket and the Bracket Holder welded to the Wheel Axle (Item 35, Plate 2) to make the harrow lift higher in the transport position.

Adjustment for Disc Angle

The disc angle is changed by removing the $\frac{3}{4}$ " x $5\frac{1}{2}$ " bolts behind each Gang Frame (Items 6 & 13, Plate 1) and shifting the outside ends of each Gang Frame forward or rearward until the desired amount of angle is obtained. Reinsert the bolts behind each Gang Frame and tighten. Always have the same amount of angle in both Front Gang Assemblies and the same amount of angle in both Rear Gang Assemblies.

Adjusting for Balk

Loosen the U-Bolts holding the Bearing Connectors (Items 5 & 8, Plate 4) and the Scraper Bars (Items 45-48, Plate 3) onto the Front Gang Frames (Item 6, Plate 1) and move all front Disc Gang Assemblies (Plate 4) in toward the center until the in-

side discs are touching. Make sure all U-Bolts are moved the same distance toward the center before tightening.

Adjusting for Ridging or Furrowing

Loosen the U-Bolts holding the Bearing Connectors (Item 5, Plate 4) and the Scraper Bars (Items 45-48, Plate 3) onto the Rear Gang Frames (Item 13, Plate 1) and move all rear Disc Gang Assemblies (Plate 4) out if the harrow is ridging and in if the harrow is not filling up the furrow left by the center of the front gangs. Make sure that all U-Bolts are moved the same distance toward or away from the center of the harrow. The speed that the harrow is to be pulled will affect these adjustments; therefore, adjustments should be made for the speed that the harrow will normally be pulled.

Lubrication

The Ball Bearings (Item 11, Plate 4) used in the Disc Gang Assemblies (Plate 4) are triple-sealed, permanently lubricated and require no lubrication or maintenance. The Bearings (Items 7 & 9, Plate 5) used in the Wheel Hub Assemblies (Plate 5) are

packed with grease at the factory prior to shipment. These bearings should be checked and adjusted periodically and repacked with grease. They should receive the same maintenance treatment as the front wheel bearings on a tractor. The harrow should be greased at all Alemite fittings as often as necessary to insure ease of operation and long life of the working parts.

Transporting Harrow

When transporting the harrow at transport speeds always have the Wing Assemblies folded over on top of the basic harrow. Remove the two $\frac{3}{4}$ " Nuts securing the Wing Gang Frames (Items 4 & 8, Plate 1) to the Gang Frames (Items 6 & 13, Plate 1) of the basic harrow. Fold the Wing Assemblies over the Gang Frames until they are resting on the Bumpers (Item 7, Plate 1). If the Wing Assemblies are hard to lift and fold over, increase the tension in the Extension Springs (Item 10, Plate 1), see paragraph No. 3 in the Setting-Up Instructions under Wing Assembly. When operating the harrow with the Wing Assemblies down always secure them to the Gang Frames with the nuts provided.

Taylor Implement Manufacturing Company

MANUFACTURERS

TRACTOR DRAWN *Taylor-Way* IMPLEMENTS

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