



MORRIS

80-11 SEED-RITE

(Hoe Drills)

Parts Section

Weeder Frame	2 & 3
Hydraulic Rocker Tube Assembly	4 & 5
Ground Drive Assembly	6 & 7
Shank and Trip Assembly	8 & 9
Drill Frame, Pressure Shafts, Drag Bar Hangers	10 & 11
Castor Wheel Hub Assembly	12
Castor Wheel Assembly	13
Seed Box & Braces	14 & 15
Drag Bar, Trip and Pressure Rod Assemblies	16 & 17
Jack Shaft and Feed Release	18 & 19
Left Axle Assembly	20
Right Axle Assembly	21
Flexible Grain Tube Lengths and Grain Tube Standard Covers	22
Tally Bracket	23
Hitch and Footboards	24
Seed Cup Assembly	25

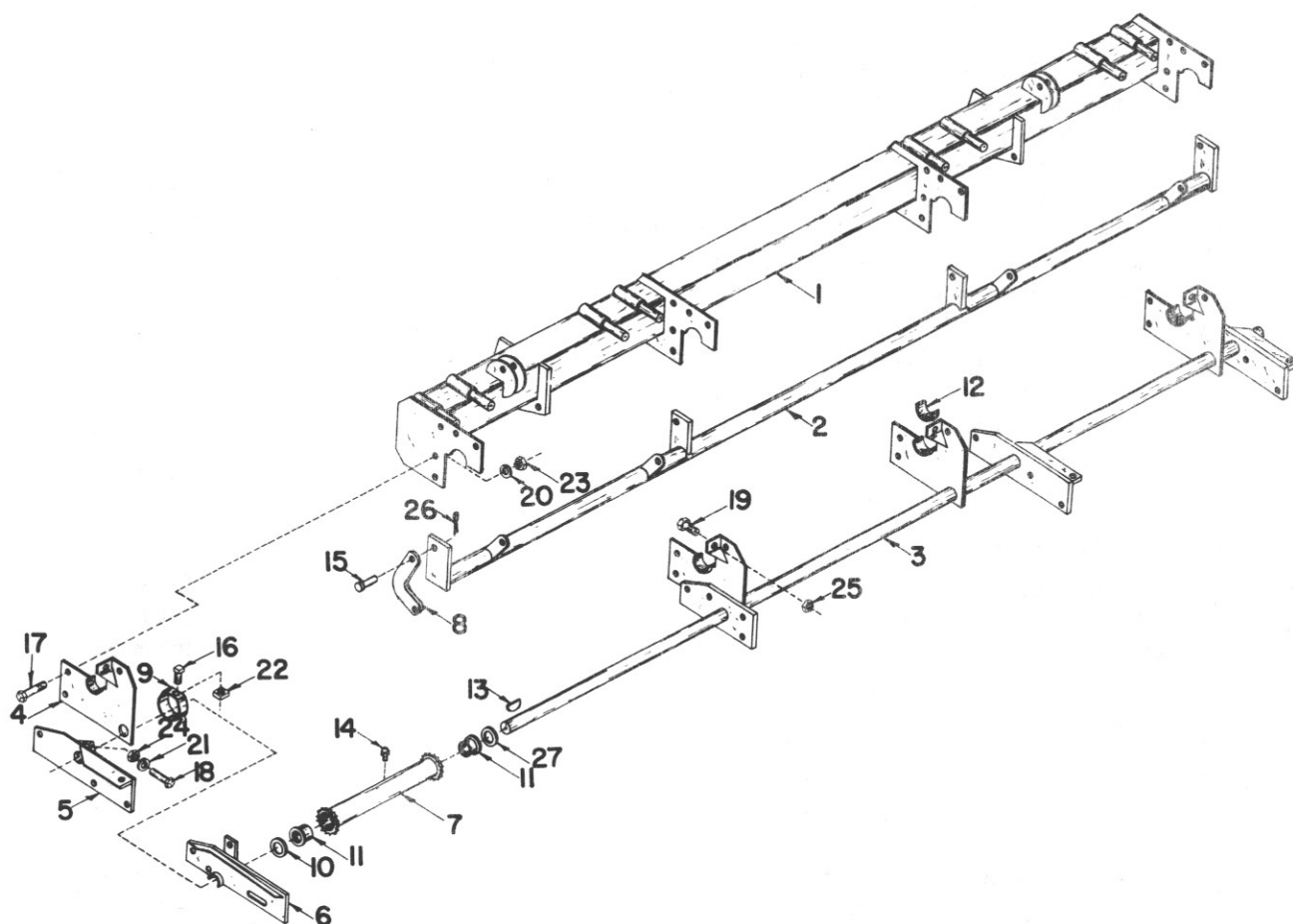
Optional Equipment

Manual Wheel Markers	26 & 27
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IMPORTANT

All parts are identified with an item number. Some of the smaller parts such as bolts, nuts, washers, etc., are not all shown, however the quantity used is listed in the text for that section which they fit into. That particular quantity is always the quantity required for one complete assembly.

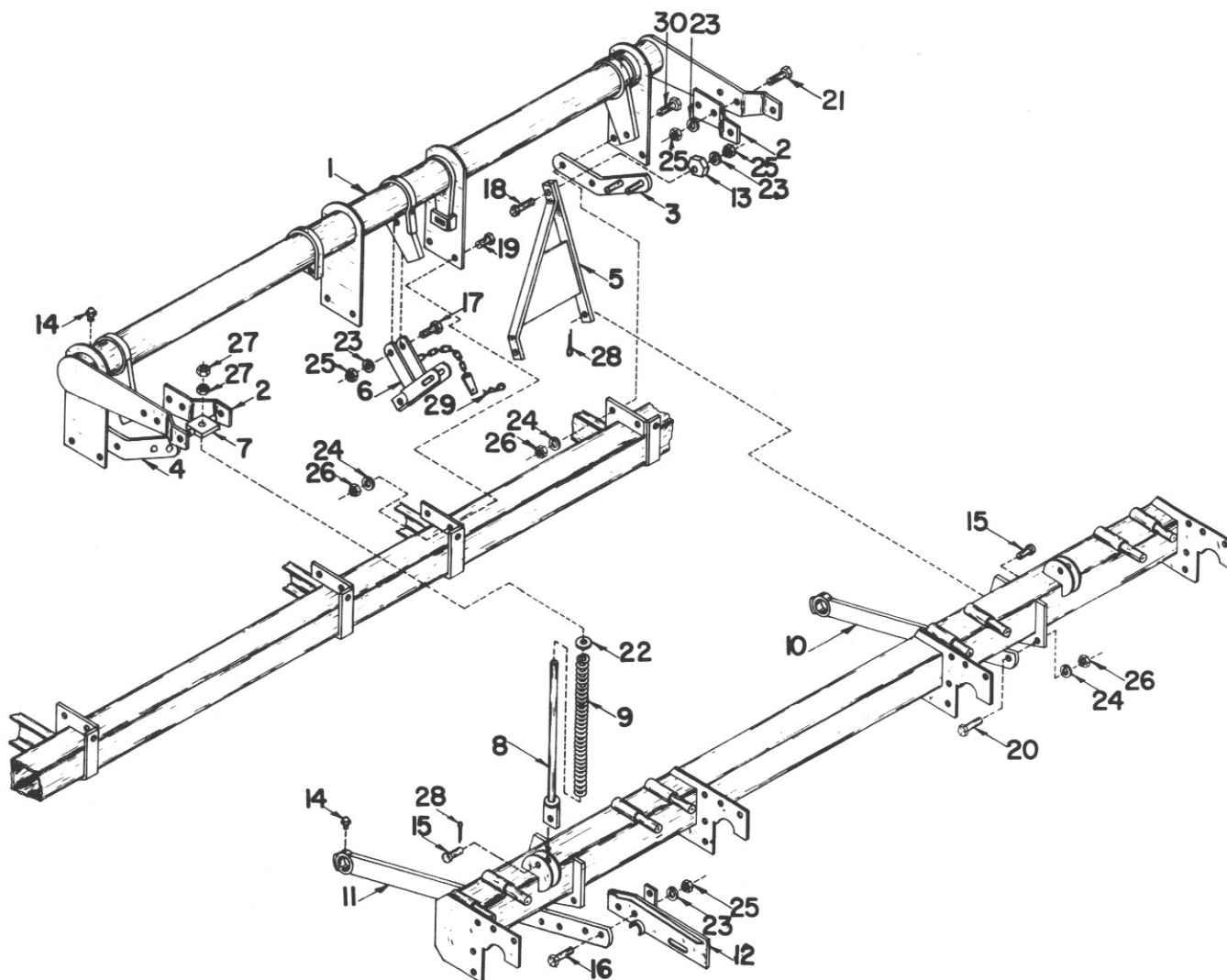
Smaller parts which are welded together to construct a larger part, are not to be ordered as individual pieces, unless they have a part number to identify them



WEEDER FRAME

3

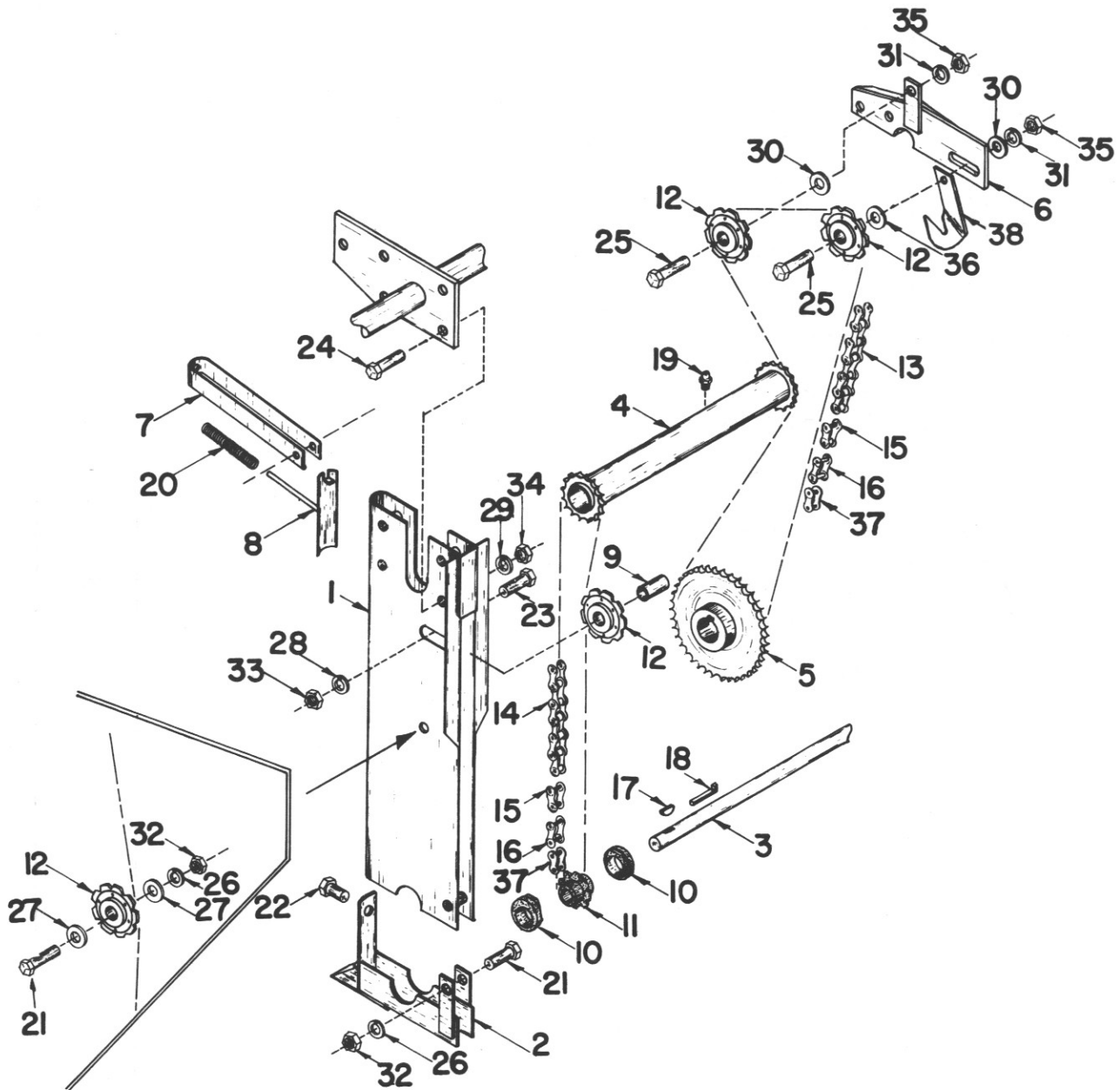
Item	Part No.	Description	No. Used
1	S-3153	Weeder Frame	1
2	S-3154	Rocker Shaft	1
3	S-3155	Gang Shaft	1
4	BW-41	Lower Rocker Shaft Plate Lug Left Side	1
5	W-1901	Blue Plate with Bearing Collar	1
6	S-1029	Left Weeder Chain Tightener Bracket	1
7	S-963	Drive Sleeve Assembly (Incl. Items 14 & 11)	1
8	BW-65	Connecting Strap	8
9	BW-6	Collar (Incl. Items 16 & 22)	1
10	W-551	Machinery Washer - 1-5/8" I.D. x 14 G.A.	1
11	W-556	Oilite Bushing - (PSF -1900)	2
12	W-1362	Nylon Bearing - Rocker Shaft	4
13	W-1902	Woodruff Key - 3/8" x 1-3/8"	1
14	S-752	Grease Nipple - 1/4" Straight	1
15	W-80	Clevis Pin - 5/8" x 1-7/16"	8
16	W-569	Square Head Setscrew - 1/2" x 1"	1
17	W-486	Hex Head Bolt - 1/2" x 1 1/2"	12
18	W-504	Hex Head Bolt - 5/8" x 4"	1
19	BW-10	Hex Head Bolt - 3/4" x 1 3/4"	4
20	W-525	Lockwasher - 1/2"	12
21	W-526	Lockwasher - 5/8"	1
22	W-567	Square Locknut - 1/2"	1
23	W-516	Hex Nut - 1/2"	12
24	W-517	Hex Nut - 5/8"	1
25	W-575	Jam Nut - 3/4"	4
26	S-531	Cotter Pin - 3/16" x 1"	8
27	W-550	Machinery Washer - 1-5/8" I.D. x 1/32"	1



HYDRAULIC ROCKER TUBE ASSEMBLY

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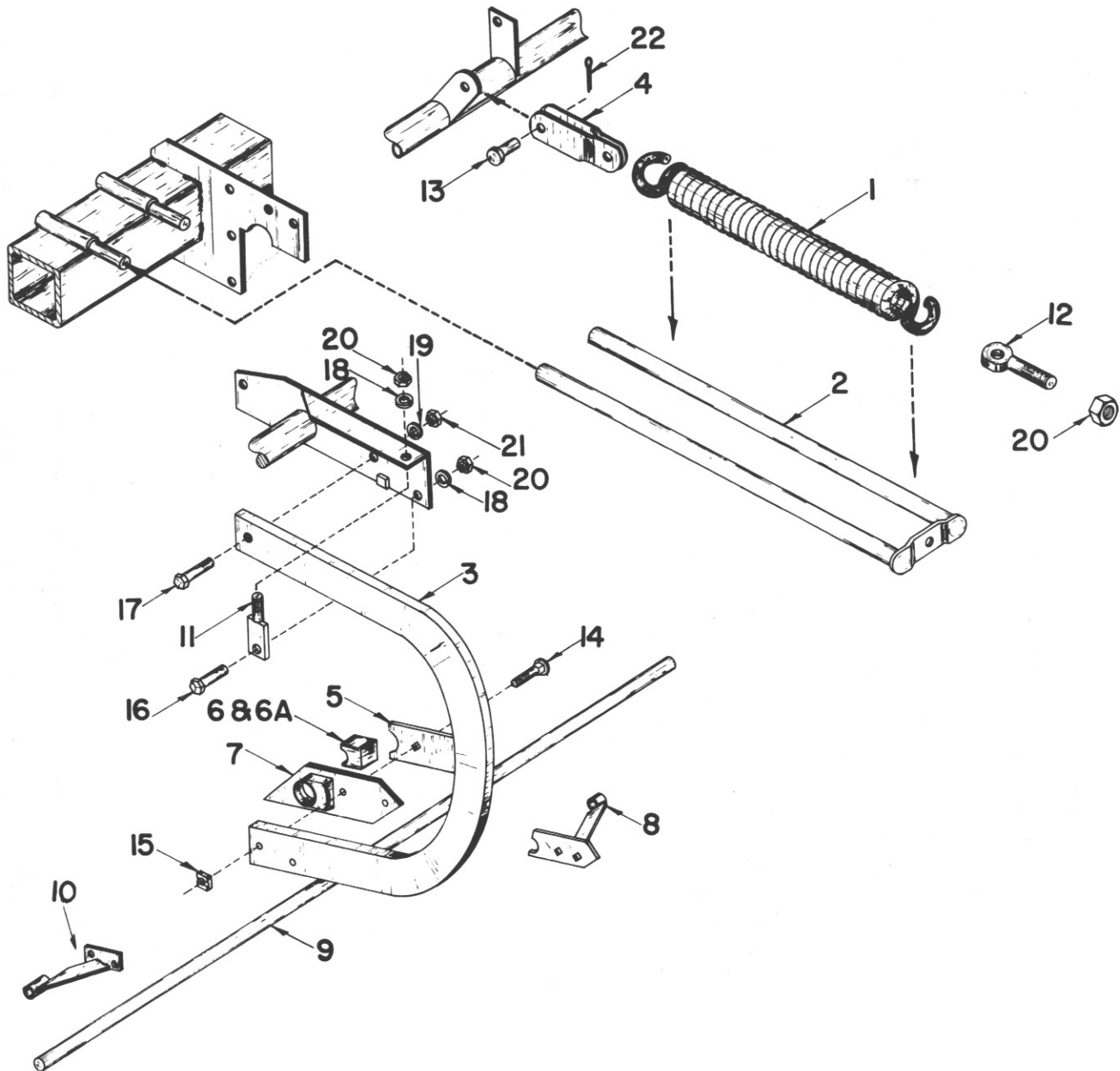
Item	Part No.	Description	No. Used
1	S-978	Hydraulic Rocker Tube	1
2	S-24	Clevis Forming Strap	2
3	S-1146	Right Stop Guide - Hex Block Bracket	1
4	S-1145	Left Stop Guide - Hex Block Bracket	1
5	S-966	Angle Arm - For Hex Block	2
6	S-1267	Hydraulic Lock Bracket	1
7	S-7	Swivel Block	2
8	S-965	Weeder Pressure Rod	2
9	S-1070	Weeder Pressure Spring - 16½"	2
10	S-976	Brace Strap - Right Axle to Weeder	1
11	S-975	Brace Strap - Left Axle to Weeder	1
12	S-1029	Left Weeder Chain Tightener Bracket	1
13	S-117	Hex Depth Adjusting Block	2
14	S-752	Grease Nipple - ¼" Straight	6
15	S-343	Clevis pin - 5/8" x 1¾"	6
16	W-488	Hex Head Bolt - ½" x 2"	2
17	W-490	Hex Head Bolt - ½" x 2½"	1
18	W-492	Hex Head Bolt - ½" x 3"	2
19	W-497	Hex Head Bolt - 5/8" x 1½"	4
20	W-498	Hex Head Bolt - 5/8" x 1¾"	4
21	W-486	Hex Head Bolt - ½" x 1½"	4
22	S-997	Washer - 5/16" Thick	2
23	W-525	Lockwasher - ½"	9
24	W-526	Lockwasher - 5/8"	12
25	W-516	Hex Nut - ½"	9
26	W-517	Hex Nut - 5/8"	12
27	W-575	Jam Nut - ¾"	4
28	S-531	Cotter Pin - 3/16" x 1"	6
29	BW-11	Hair Pin - 3/16"	1
30	W-499	Hex Head Bolt - 5/8" x 2"	4



GROUND DRIVE ASSEMBLY

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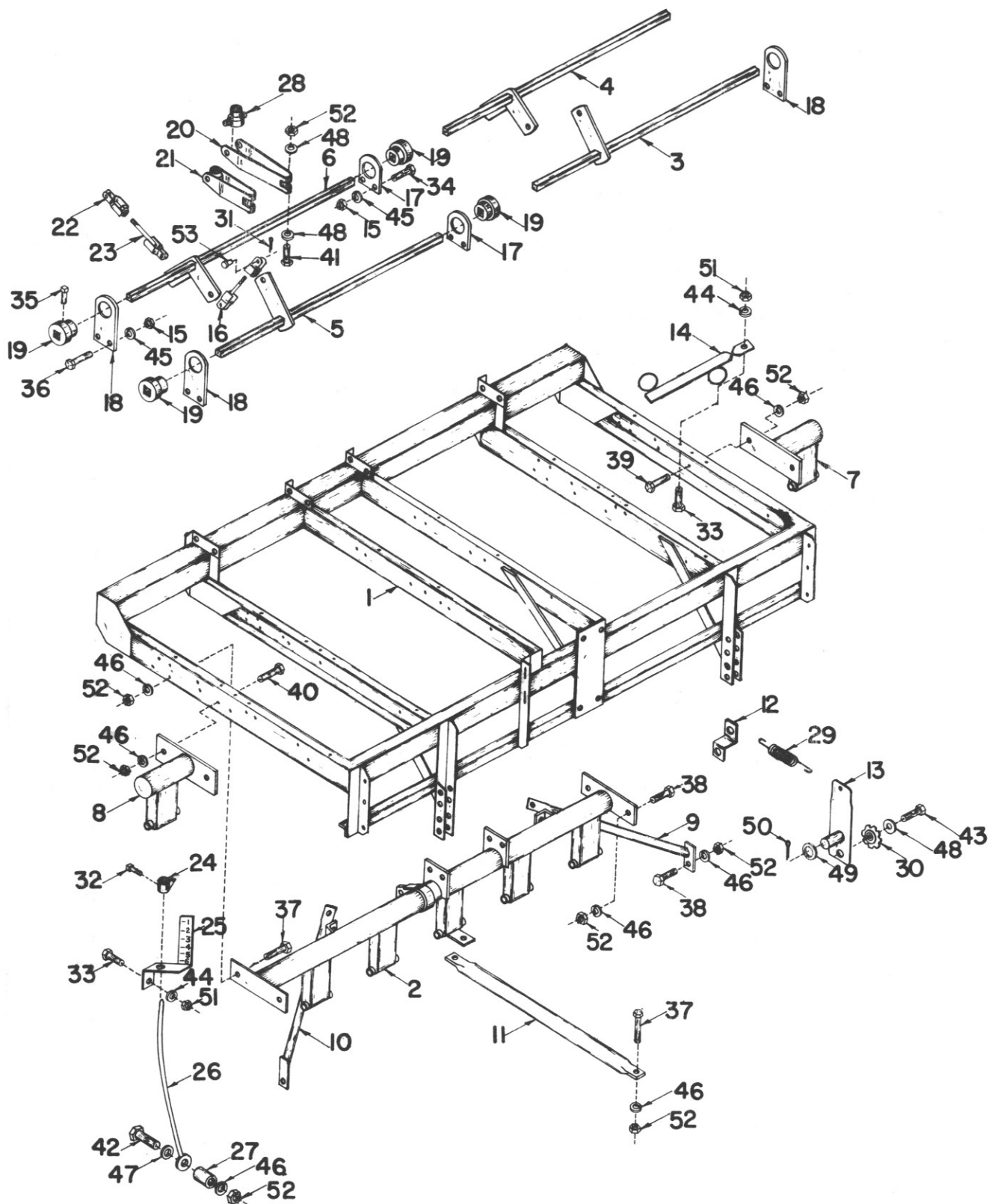
Item	Part No.	Description	No. Used
1	BW-86	Drive Leg	1
2	W-916	Leg Shoe	1
3	S-1783	Ground Rod	1
4	S-963	Drive Sleeve	1
5	S-1143	Sprocket - 42 Tooth	1
6	S-1029	Left Weeder Chain Tightener Bracket	1
7	W-913	U-Clevis	1
8	W-854	Spring Rod Bracket	1
9	W-914	Bushing	1
10	W-900	Ground Rod Bearing	2
11	W-899	Ground Rod Sprocket - 8 Tooth	1
12	BW-3	Idler Sprocket - 9 Tooth	3
13	S-1208	Drive Chain - 1 1/4" Pitch 94 Links	1
14	BW-2	Leg Chain - 1 1/4" Pitch 44 Links	1
15	BW-15	Offset Link - 1 1/4" Pitch (Optional)	AsReq'd
16	BW-14	Connecting Link - 1 1/4" Pitch	2
17	BW-122	Woodruff Key - 3/16" x 3/4" Alloy	1
18	W-915	Key Strip	1
19	S-752	Grease Nipple - 1/4" Straight	1
20	W-1021	Spring - 9/16" x 5-3/8"	1
21	W-480	Hex Head Bolt - 3/8" x 2 1/2"	2
22	S-482	Hex Head Bolt - 7/16" x 1"	1
23	W-1014	Hex Head Bolt - 7/16" x 2 1/2"	1
24	W-490	Hex Head Bolt - 1/2" x 2 1/2"	4
25	W-500	Hex Head Bolt - 5/8" x 2 1/4"	2
26	W-523	Lockwasher - 3/8"	2
27	W-1846	Special Washer (Optional)	AsReq'd
28	W-524	Lockwasher - 7/16"	1
29	W-525	Lockwasher - 1/2"	4
30	W-540	Plain Washer - 5/8"	2
31	W-526	Lockwasher - 5/8"	2
32	W-514	Hex Nut - 3/8"	2
33	W-515	Hex Nut - 7/16"	1
34	W-516	Hex Nut - 1/2"	4
35	W-517	Hex Nut - 5/8"	2
36	S-1090	Washer - 3/8" Thick	1
37	BW-16	Roller Link (Optional)	AsReq'd
38	S-1089	Chain Catcher	1
	W-1580	Sprocket Assembly (Includes #10, 11 & 18)	
	W-1420	Tightener Assembly (Includes #7, 8, 9, 20, 23, 28 & 33)	
	W-1827	Tightener Kit - (Optional) (Includes #12, 21, 26, 27 & 32)	



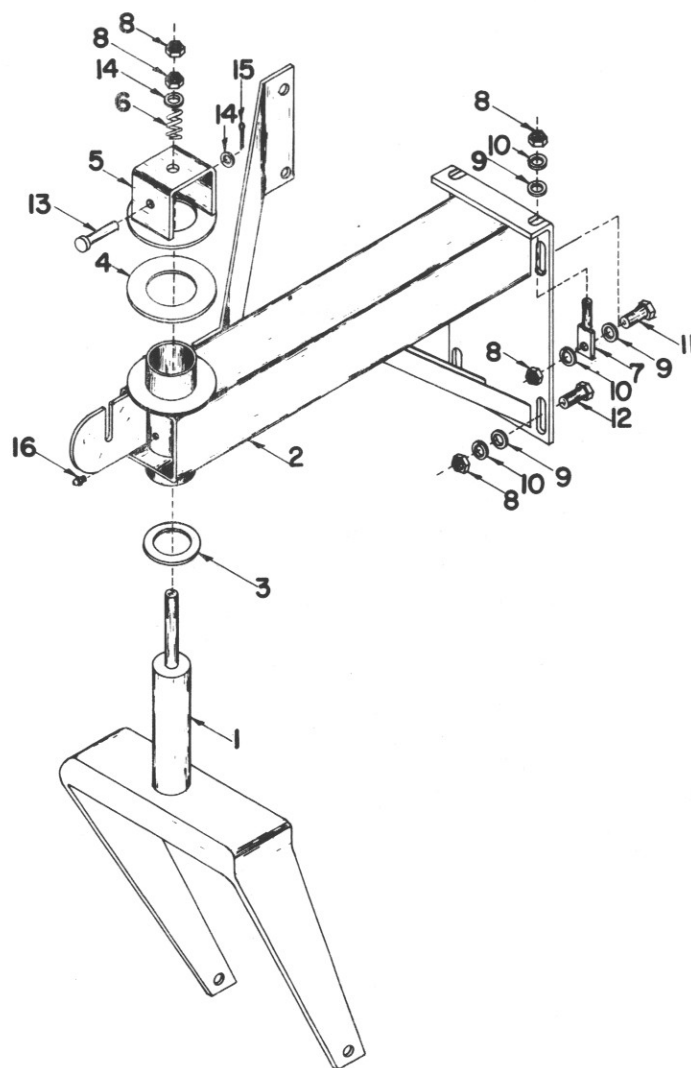
SHANK AND TRIP ASSEMBLY

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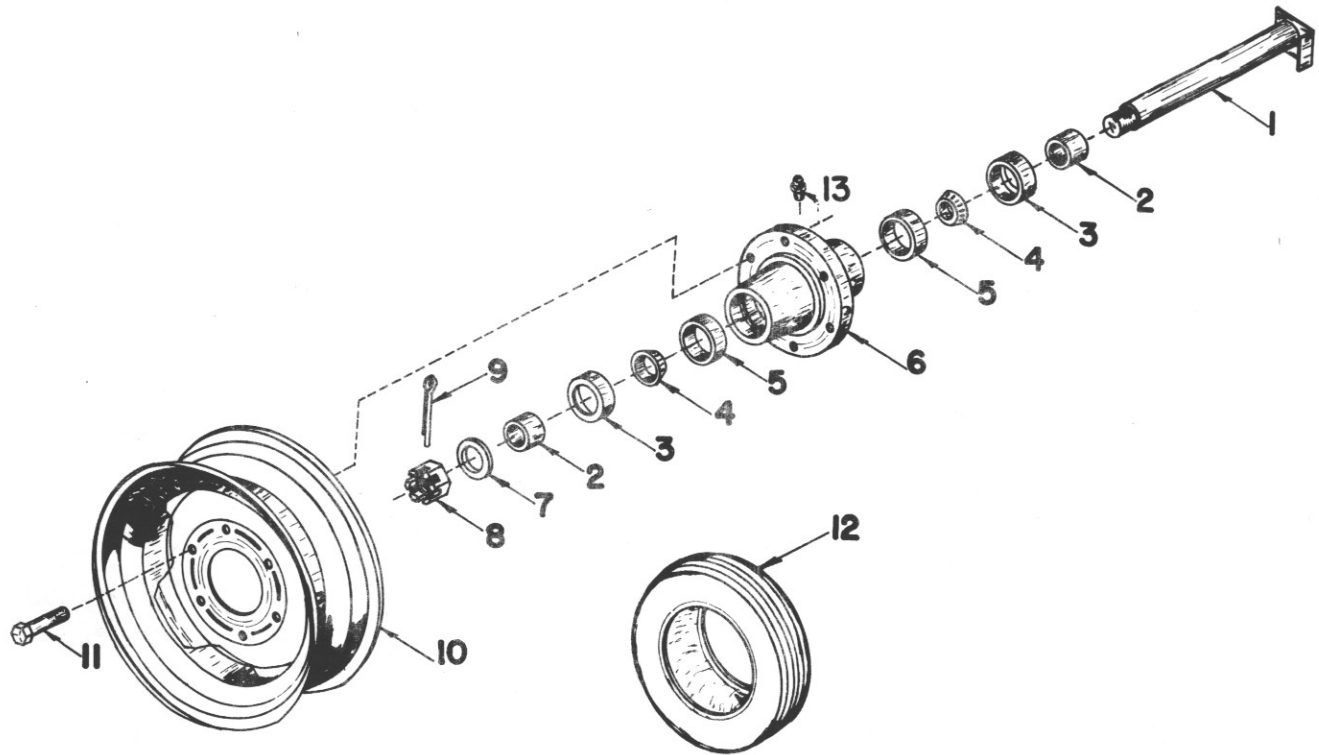
Item	Part No.	Description	No. Used
1	BW-4	Trip Spring - 2½" O.D.	4
2	BW-28	Spring Frame	4
3	BW1-80	Standard	3
4	BW-22	Spring Clevis - (Includes 2 Half Pieces)	4
5	W-69	Side Plate	3
6	W-1-N	Urethane Boxing	3
6A	W-1	Wood Boxing (Optional)	AsReq'd
7	W-71	Shoe	3
8	W-3157	Right Ground Rod Support (Optional)	AsReq'd
9	S-1783	Ground Rod - 142"	1
10	W-3158	Left Ground Rod Support (Optional)	AsReq'd
11	BW-71	Standard Clamp Strap	3
12	BW-9	Eyebolt	4
13	BW-8	Clevis Pin ½" x 1¼"	4
14	W-72	Shoe Bolt - ½" x 1¾" Carriage (Incl. Item # 15)	6
15	W-567	Square Lock Nut - ½"	6
16	W-490	Hex Head Bolt - ½" x 2½"	3
17	W-500	Hex Head Bolt - 5/8" x 2¼"	3
18	W-525	Lockwasher - ½"	6
19	W-526	Lockwasher - 5/8"	3
20	W-516	Hex Nut - ½"	10
21	W-517	Hex Nut - 5/8"	3
22	W-907	Cotter Pin - 5/32" x ¾"	4



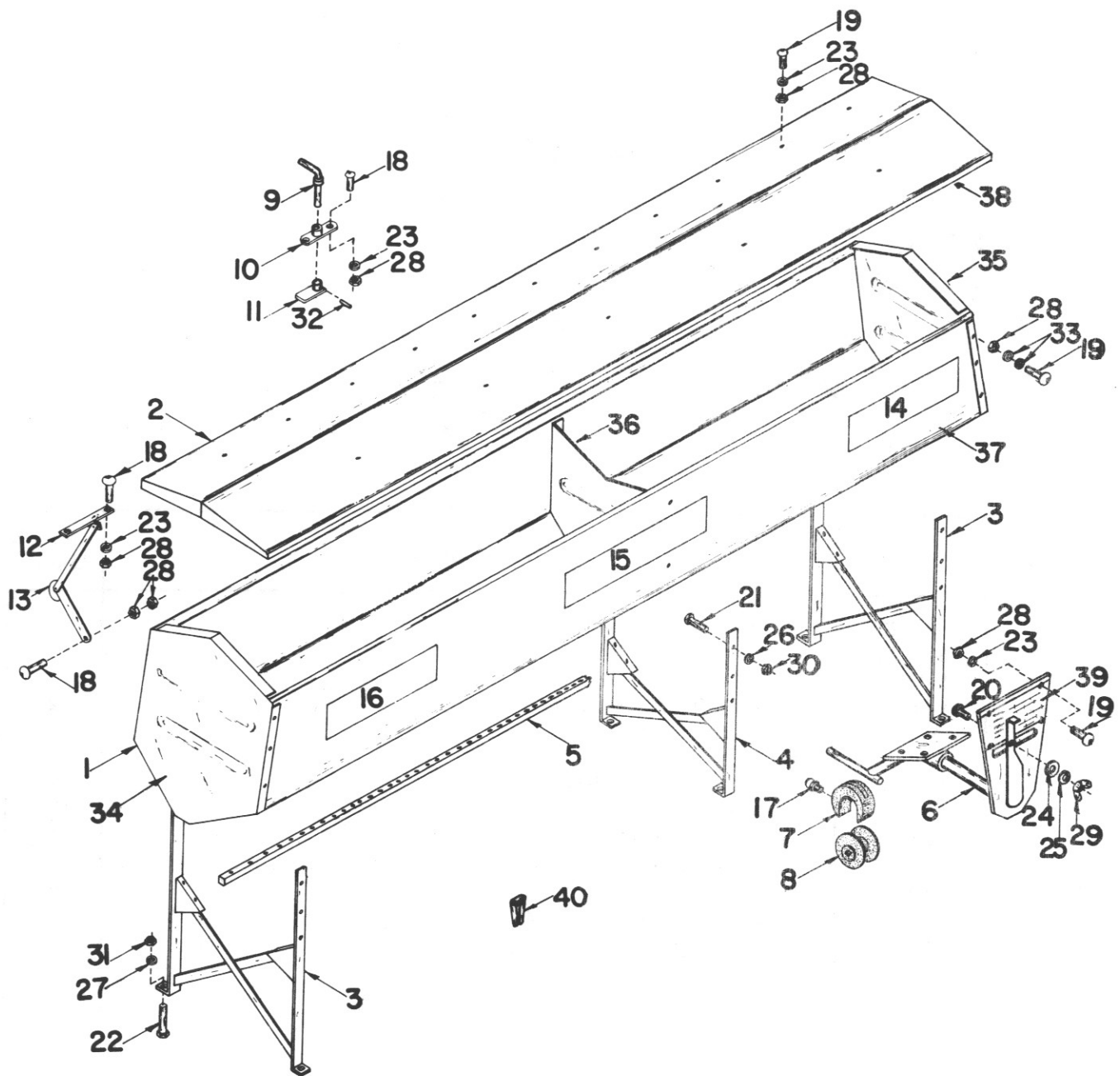
Item	Part No.	Description	No. Used
1	S-1849	Drill Frame	1
2	S-999	Drag Bar Hanger	1
3	S-1005	Left Front Pressure Shaft	1
4	S-1806	Left Rear Pressure Shaft	1
5	S-1007	Right Front Pressure Shaft	1
6	S-1805	Right Rear Pressure Shaft	1
7	S-1000	Left Stub Drag Bar Hanger	1
8	S-1312	Right Stub Drag Bar Hanger	1
9	S-1265	Left Brace - Drag Bar Hanger to Axle Plate	1
10	S-1264	Right Brace - Drag Bar Hanger to Axle Plate	1
11	S-1156	Tubular Brace - Frame to Drag Bar Hanger	1
12	S-1045	Spring Clip - Chain Tightener	1
13	S-1046	Chain Tightener Bracket	1
14	S-1173	Double Guide	2
15	W-515	Hex Nut - 7/16"	32
16	S-1047	Long Adjusting Rod - Pressure Shaft	2
17	S-33	Short Bearing Plate - Pressure Shaft	4
18	S-34	Long Bearing Plate - Pressure Shaft	8
19	S-11	Bearing Casting - Pressure Shaft	12
20	S-1013	Long Pressure Arm (Inc. Item 28)	9
21	S-1258	Short Pressure Arm (Inc. Item 28)	10
22	S-1049	Adjusting End - Adjusting Rod	4
23	S-1048	Short Adjusting Rod - Pressure Shaft	2
24	S-320	Depth Gauge Pointer	1
25	S-1161	Depth Gauge Bracket	1
26	S-324	Depth Gauge Rod	1
27	S-340	Bushing	1
28	S-1231	Pressure Rod Casting	19
29	W-106	Spring - 9/16" O.D. x 4"	1
30	BW-3	Idler Sprocket - 9 Tooth	1
31	S-531	Cotter Pin - 3/16" x 1"	8
32	S-753	Set Screw - 5/16" x 1/2"	1
33	W-475	Hex Head Bolt - 3/8" x 1"	3
34	S-482	Hex Head Bolt - 7/16" x 1" (Special)	16
35	S-755	Square Head Set Screw - 7/16" x 1"	12
36	W-483	Hex Head Bolt - 7/16" x 1 1/4"	16
37	W-485	Hex Head Bolt - 1/2" x 1 1/4"	10
38	W-486	Hex Head Bolt - 1/2" x 1 1/2"	4
39	W-487	Hex Head Bolt - 1/2" x 1 3/4"	2
40	W-488	Hex Head Bolt - 1/2" x 2"	2
41	W-492	Hex Head Bolt - 1/2" x 3"	19
42	W-494	Hex Head Bolt - 1/2" x 3 3/4"	1
43	W-497	Hex Head Bolt - 5/8" x 1 1/2"	1
44	W-523	Lockwasher - 3/8"	3
45	W-524	Lockwasher - 7/16"	32
46	W-525	Lockwasher - 1/2"	19
47	W-539	Plain Washer - 1/2"	1
48	S-751	Machinery Washer - 1-1/8" O.D. x 17/32" I.D. x 1/8"	39
49	W-543	Machinery Washer - 2/3" I.D. x 14 G.A.	1
50	W-532	Cotter Pin - 3/16" x 1 1/4"	1
51	W-514	Hex Nut - 3/8"	3
52	W-516	Hex Nut - 1/2"	38
53	W-80	Clevis Pin - 5/8" x 1-7/16"	8



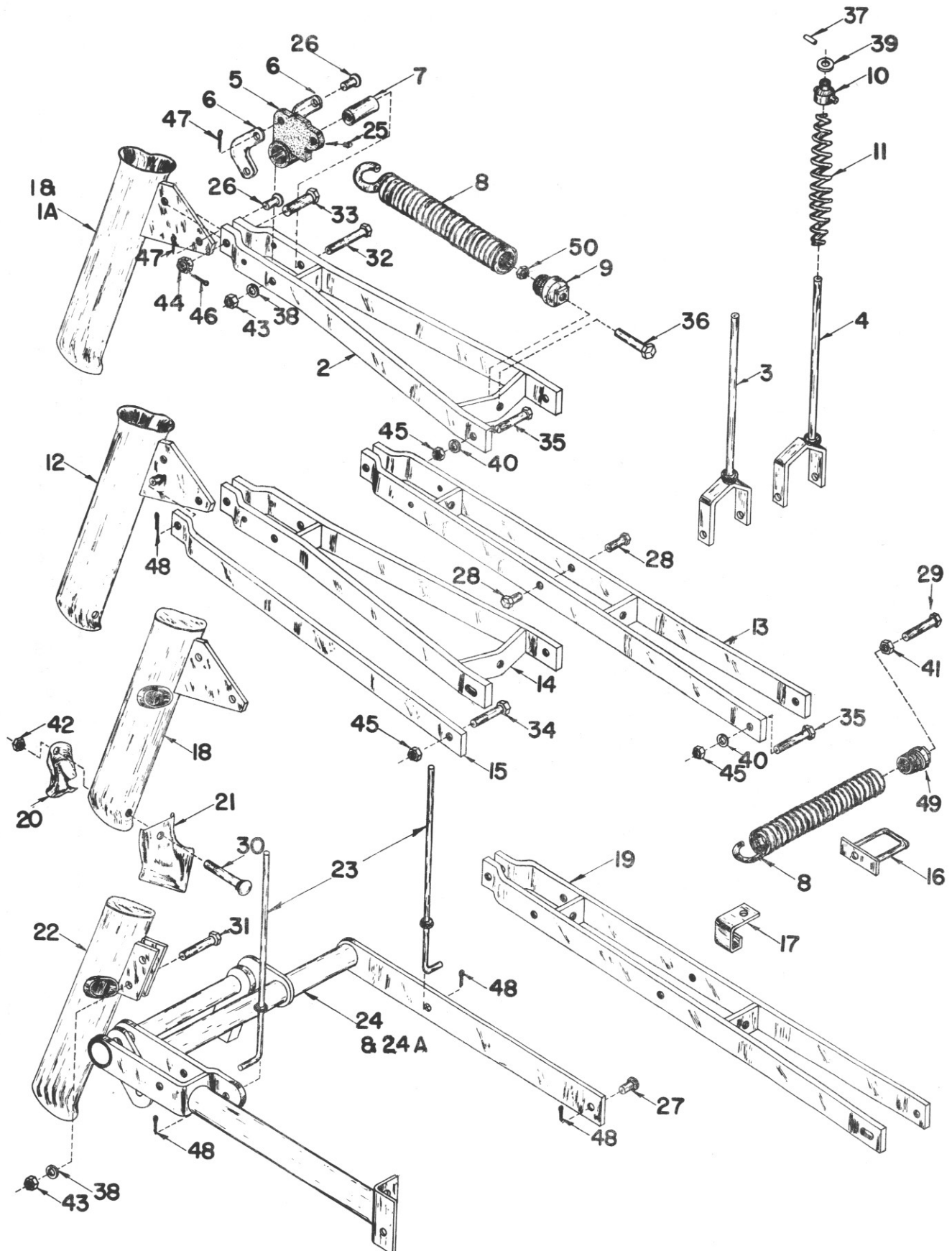
Item	Part No.	Description	No. Used
1	S-1022	Castor Fork	1
2	S-1018	Castor Wheel Bracket	1
3	S-1155	Machinery Washer - 3" O.D. x 2" I.D.	1
4	S-1217	Friction Disc - 4 $\frac{3}{4}$ " O.D. x 2 $\frac{1}{2}$ " I.D. x 1/8"	1
5	S-1016	Castor Wheel Brake	1
6	W-342	Spring	1
7	S-1020	Eye Bolt	2
8	W-516	Hex Nut - $\frac{1}{2}$ "	9
9	S-751	Machinery Washer - 1-1/8" O.D. x 17/32" I.D. x 1/8"	6
10	W-525	Lockwasher - $\frac{1}{2}$ "	6
11	W-488	Hex Head Bolt - $\frac{1}{2}$ " x 2"	2
12	W-486	Hex Head Bolt - $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	4
13	S-1019	Pivot Pin - 9/16" x 4 $\frac{1}{2}$ "	1
14	W-539	Plain Washer - $\frac{1}{2}$ " U.S.S.	2
15	W-531	Cotter Pin - 3/16" x 1"	1
16	S-752	Grease Nipple - $\frac{1}{4}$ " Straight	1



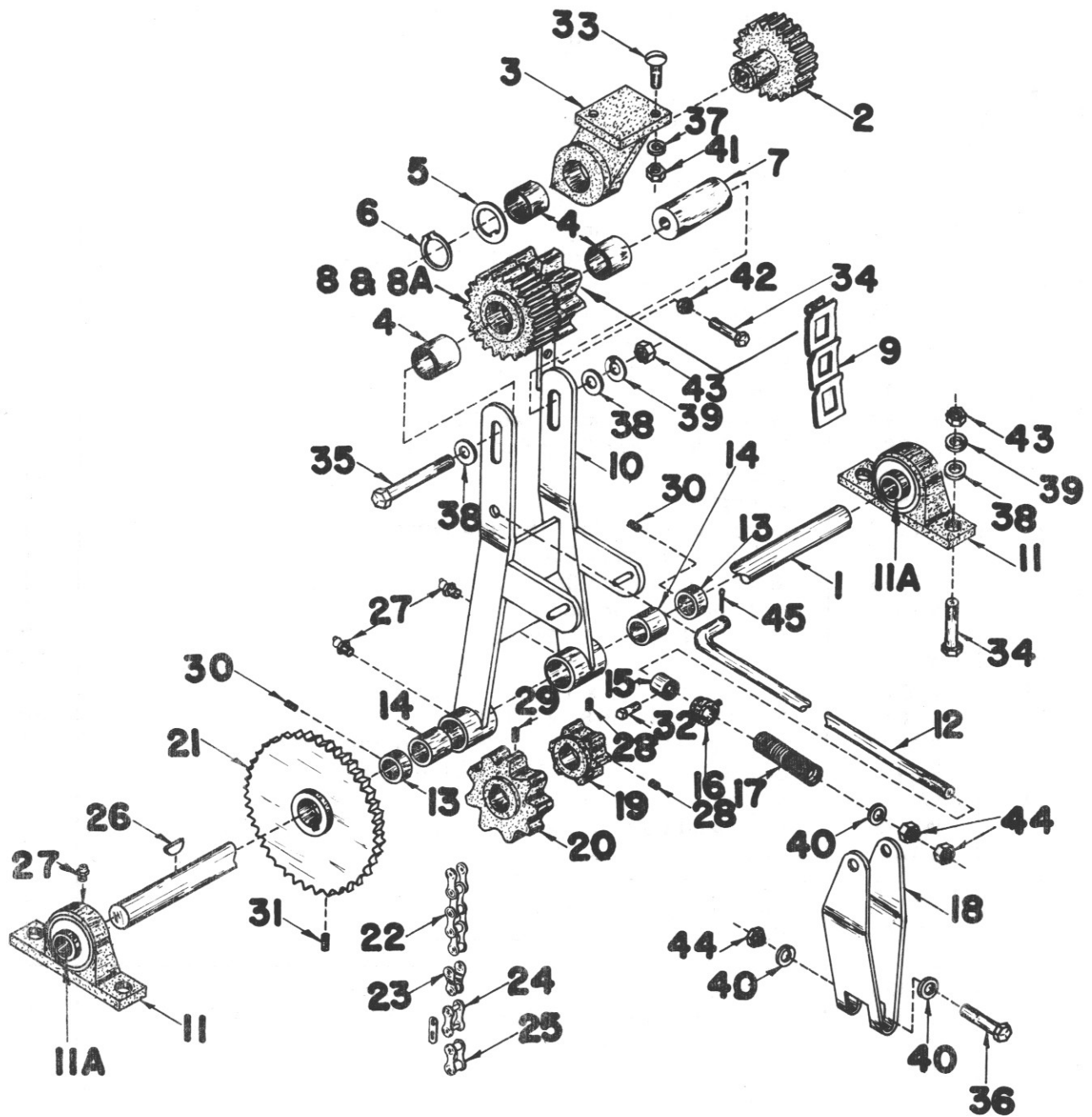
Item	Part No.	Description	No. Used
1	S-1023	Axle (Castor Wheel)	1
2	S-1024	Spacer (Castor Wheel)	2
3	S-1286	Dust Seal	2
4	W-89	Bearing (LM67048)	2
5	W-90	Cup (LM67010)	2
6	S-1206	Hub	1
7	S-1050	Washer (Castor Wheel)	1
8	S-1311	Slotted Nut - 1" Sae	1
9	W-532	Cotter Pin - 3/16" x 1 1/4"	1
10	S-1207	Wheel - 15" x 5", 6 Hole	1
11	W-1383	Wheel Stud Bolt - 9/16" x 1-11/16"	6
12	C-738	Tire & Tube - 760 x 15, 4 Ply	1
13	S-752	Grease Nipple - 1/4" Straight	1



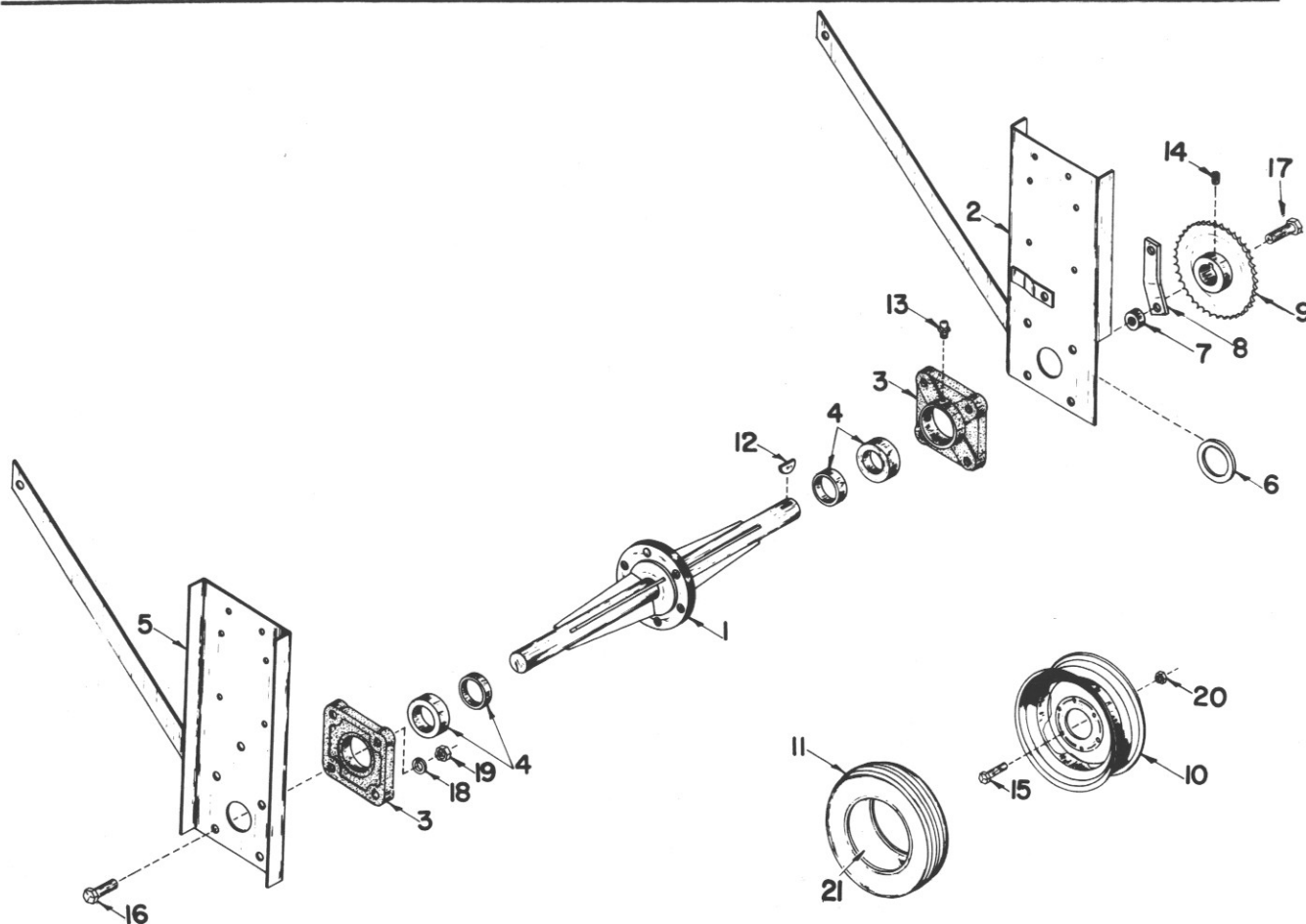
Item	Part No.	Description	No. Used
1	S-1867	Seed Box - Assembly (Includes #34, 35, 36, 37 & 38)	1
2	S-1868	Seed Box Lid - Assembly (Includes #38)	1
3	S-1086	Outer Box Braces	2
4	S-1085	Centre Box Brace	1
5	S-3239	Feed Shaft	1
6	S-1288	Seed Setting Assembly	1
7	S-14	Shift Collar	1
8	S-13	Shift Spool	1
9	S-3756	Latch Handle	1
10	S-3758	Latch Mounting Plate	1
11	S-3757	Latch	1
12	S-1149	Bracket (Folding Brace)	1
13	S-1148	Folding Brace	1
14	S-1296	"Seed-Rite" Decal	1
15	S-1869	"80-11" Decal	1
16	S-1295	"Morris" Decal	1
17	S-752	Grease Nipple - 1/4" Straight	2
18	S-1193	Truss Head Bolt - 1/4" x 3/4"	17
19	S-744	Truss Head Bolt - 1/4" x 1/2"	74
20	S-745	Carriage Bolt - 5/16" x 1 1/4"	1
21	W-475	Hex Head Bolt - 3/8" x 1"	18
22	W-1162	Hex Head Bolt - 7/16" x 1 1/2"	6
23	W-521	Lockwasher - 1/4"	67
24	S-1199	Plain Washer - 5/16"	1
25	W-522	Lockwasher - 5/16"	1
26	W-523	Lockwasher - 3/8"	18
27	W-524	Lockwasher - 7/16"	6
28	W-512	Hex Nut - 1/4"	91
29	S-747	Wing Nut - 5/16"	1
30	W-514	Hex Nut - 3/8"	18
31	W-515	Hex Nut - 7/16"	6
32	S-3001	Spiral Pin - 3/16" x 1"	1
33	S-1198	Flat Washer - 1/4"	24
34	S-3474	Right Box End	1
35	S-3475	Left Box End	1
36	S-3476	Box Divider	1
37	S-3478	Seed Box Only	1
38	S-3479	Lid Reinforcement	1
39	S-764	Indicator Plate	1
40	W-1558	Sign Bracket	1



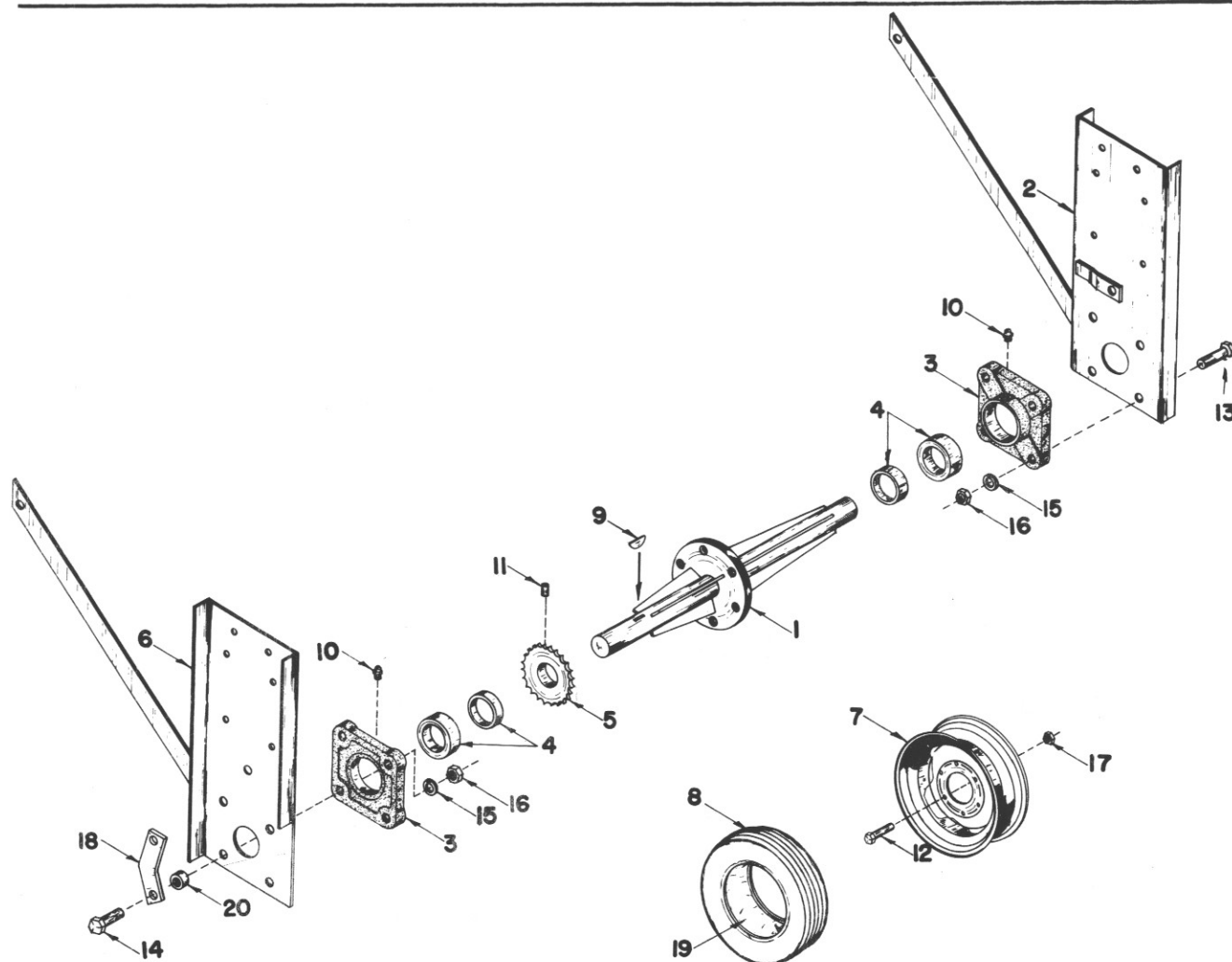
Item	Part No.	Description	No. Used
1	S-1080	Grain Tube Standard (Short Drag Bar)	7
1A	S-1081	Grain Tube Standard (Long Drag Bar)	4
2	S-1041	Short Drag Bar	7
3	S-1078	Regular Pressure Rod	11
4	S-1261	Offset Pressure Rod	4
5	S-17	Trip Rocker	17
6	M-800	Connecting Strap	34
7	S-135	Bushing - Trip Rocker	17
8	V-339	Trip Spring Only	19
9	V-3262	Nylon Plug for Spring (Incl. Item 41)	19
10	S-1231	Pressure Rod Casting	19
11	S-1069	Pressure Rod Spring	19
12	S-1136	Grain Tube Standard (For Slotted Drag Bar)	2
13	S-1040	Long Drag Bar	4
14	S-1186	Short Side Kicker Drag Bar	2
15	S-1105	Pull Away Strap (Side Kicker)	2
16	S-1795	Bracket	2
17	S-1796	Clip	2
18	S-1797	Grain Tube Standard (Rear Row)	2
19	S-1798	Long Side Kicker Drag Bar	2
20	S-1183	Deflector	17
21	S-996	Sweep	17
22	S-1077	Grain Tube Standard (Behind Wheel)	2
23	S-1079	L-Shaped Pressure Rod	4
24	S-1053	Right Special Drag Bar	1
24A	S-1054	Left Special Drag Bar	1
25	S-752	Grease Nipple - 1/4" Straight	17
26	BW-8	Clevis Pin - 1/2" x 1 1/4"	34
27	W-80	Clevis Pin - 5/8" x 1-7/16"	4
28	S-101	Shoulder Bolt 3/8" x 1-1/32"	30
29	C-1823	Hex Head Bolt - 1/2" x 3" (Full Thread)	17
30	S-89	Sweep bolts - 3/8" x 3 1/2" (Incl. Item 42)	17
31	W-488	Hex Head Bolt - 1/2" x 2"	4
32	W-493	Hex Head Bolt - 1/2" x 3 1/2"	17
33	S-144	Hex Head Bolt - 5/8" x 2"	15
34	S-1360	Hex Head Bolt - 5/8" x 6 3/4"	1
35	S-1190	Hex Head bolt - 5/8" x 7-3/8"	15
36	F-1854	Hex Head Bolt - 3/8" x 3"	19
37	S-3001	Roll Pin - 3/16" x 1"	27
38	W-525	Lockwasher - 1/2"	23
39	S-243	Machinery Washer - 1-1/8" O.D. x 19/32" I.D. x 1/8"	19
40	W-526	Lockwasher - 5/8"	18
41	S-1292	Jam Nut - 1/2"	19
42	W-514	Hex Nut - 3/8"	17
43	W-516	Hex Nut - 1/2"	23
44	S-749	Slotted Nut - 5/8"	15
45	S-1291	Clevaloc - 5/8" (Thin)	16
46	W-528	Cotter Pin - 1/8" x 1"	15
47	W-907	Cotter Pin - 5/32" x 3/4"	34
48	S-531	Cotter Pin - 3/16" x 1"	4
49	V-338	Cast Plug	2
50	M-3388	Double Locking Nut - 3/8"	19
	V-3465	Spring and Plug Assembly (Incl. Items 8 & 9)	



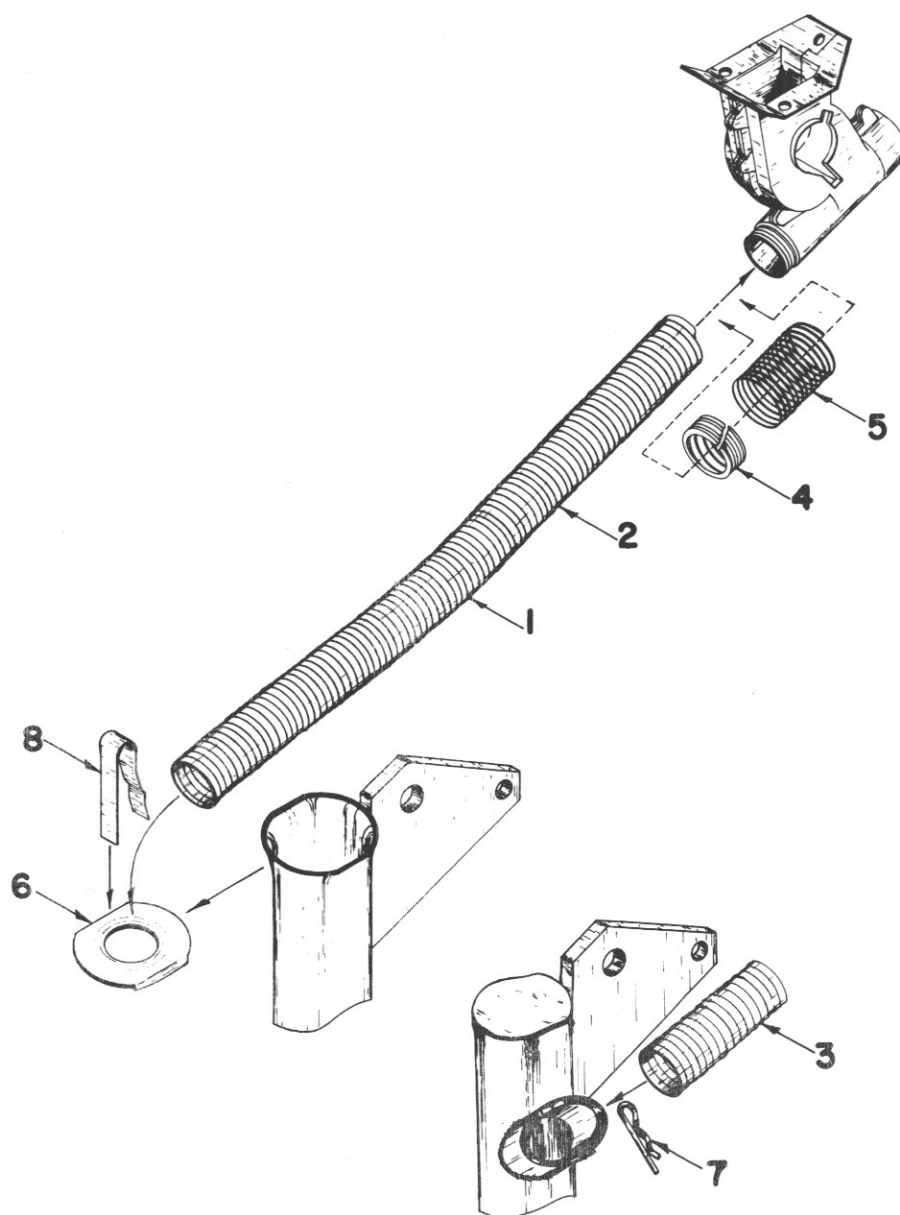
Item	Part No.	Description	No. Used
1	S-1044	Jack Shaft - 1" Diameter	1
2	S-114	Feed Shaft Gear	1
3	S-115	Bearing Bracket on Feed Shaft (Incl. Item 4)	1
4	S-142	Bushing for Casting	3
5	S-246	Washer	1
6	S-104	Snap Ring	1
7	S-137	Bushing for S-113 Axle	1
8	S-113	9 Tooth Sprocket, 21 Tooth Gear (Incl. 2 of Item 4)	1
8A	S-116	11 Tooth Sprocket, 14 Tooth Gear (Incl. 2 of Item 4)	1
9	S-1095	Chain - #51, 28 Link	1
10	S-1043	Feed Release Bracket (Incl. 2 of Item 14)	1
11	S-91	Pillow Block Bearing Assembly (Incl. Item 11A)	2
11A	S-774	Bearing Insert	2
12	S-1042	Feed Release Rod	1
13	BW-119	Collar	2
14	S-141	Feed Release Bracket Bushing	2
15	S-140	Rod Collar	1
16	S-1231	Swivel Casting	1
17	S-1257	Spring - 7 $\frac{3}{4}$ " Long	1
18	S-60	Feed Release Arm	1
19	S-317	6 Tooth Sprocket	1
20	S-112	9 Tooth Sprocket	1
21	S-93	40 Tooth Sprocket	1
22	S-1067	Chain - 1 $\frac{1}{4}$ " Pitch, 56 Link	1
23	BW-15	Offset Link 2050	AsReq'd
24	BW-14	Connector Link 2050	1
25	BW-16	Roller Link	AsReq'd
26	S-239	Woodruff Key - $\frac{1}{4}$ " x 7/8"	2
27	S-752	Grease Nipple - $\frac{1}{4}$ " Straight	2
28	S-1202	Allan Set Screw - $\frac{1}{4}$ " x $\frac{1}{4}$ "	1
29	S-757	Allan Set Screw - $\frac{1}{4}$ " x $\frac{1}{2}$ "	1
30	W-554	Allan Set Screw - 5/16" x 5/16"	1
31	S-1203	Allan Set Screw - 5/16" x $\frac{1}{2}$ "	1
32	S-753	Square Head Set Screw - 5/16" x $\frac{1}{2}$ "	1
33	S-746	Truss Head Bolt - 5/16" x $\frac{3}{4}$ "	2
34	S-754	Square Head Setscrew - 3/8" x 1 $\frac{1}{2}$ "	1
35	W-481	Hex Head Bolt - 3/8" x 3 $\frac{1}{2}$ "	1
36	W-492	Hex Head Bolt - $\frac{1}{2}$ " x 3"	1
37	W-522	Lockwasher - 5/16"	2
38	W-538	Plain Washer - 3/8"	6
39	W-523	Lockwasher - 3/8"	5
40	S-751	Machinery Washer - 17/32" I.D. x 1-1/8" O.D.	3
41	W-513	Hex Nut - 5/16"	2
42	S-748	Jam Nut - 3/8"	1
43	W-514	Hex Nut - 3/8"	5
44	W-516	Hex Nut - $\frac{1}{2}$ "	3
45	W-530	Cotter Pin - 5/32" x 1"	1



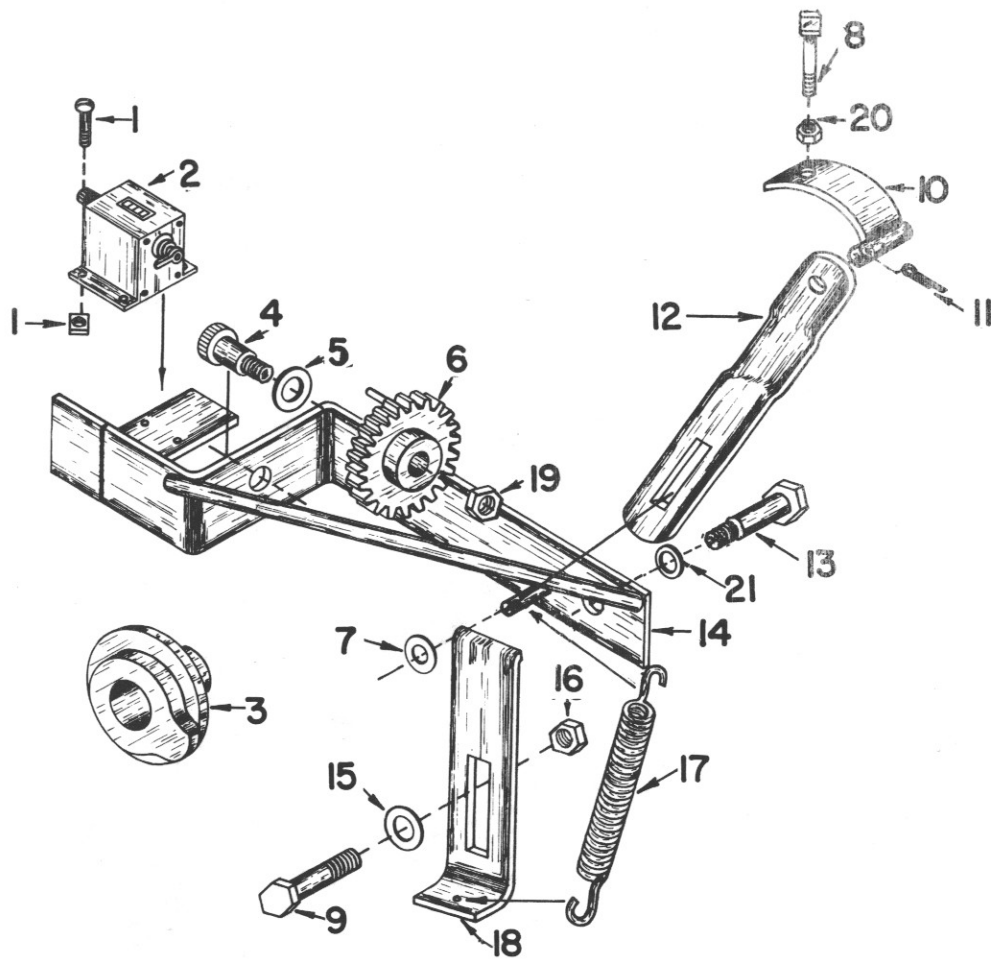
Item	Part No.	Description	No. Used
1	S-1138	Left Axle	1
2	S-1057	Inner Axle Plate (Left Wheel)	1
3	S-1285	Flange Only	2
4	S-1284	Bearing Insert (With Collar)	2
5	S-1058	Outer Axle Plate (Left Wheel)	1
6	C-553	Machinery Washer - 1 3/4" x 1 G.A.	1
7	S-1130	Spacer - For Hold On Bracket	2
8	S-1220	Hold On Strap - Weeder to Axle	1
9	S-771	Sprocket - 42 Tooth	1
10	S-348	Rim - 20"	1
11	S-346	6 Ply Tire - 750 x 20"	1
12	W-1902	Woodruff Key - 3/8" x 1-3/8" Alloy	1
13	F-3056	Grease Nipple - 1/4" x 90°	2
14	W-561	Allan Set Screw - 3/8" x 1/2"	2
15	S-1192	Wheel Stud Bolt - 1/2" x 1 1/2"	6
16	W-499	Hex Head Bolt - 5/8" x 2"	6
17	W-502	Hex Head Bolt - 5/8" x 2 3/4"	2
18	W-526	Lockwasher - 5/8"	8
19	W-517	Hex Nut - 5/8"	8
20	S-1196	Tapered Nut - 1/2"	6
21	S-347	Tube - 20"	1
	S-1115	Flange Bearing Assembly - 1 3/4" (Includes Items 3, 4, & 13)	



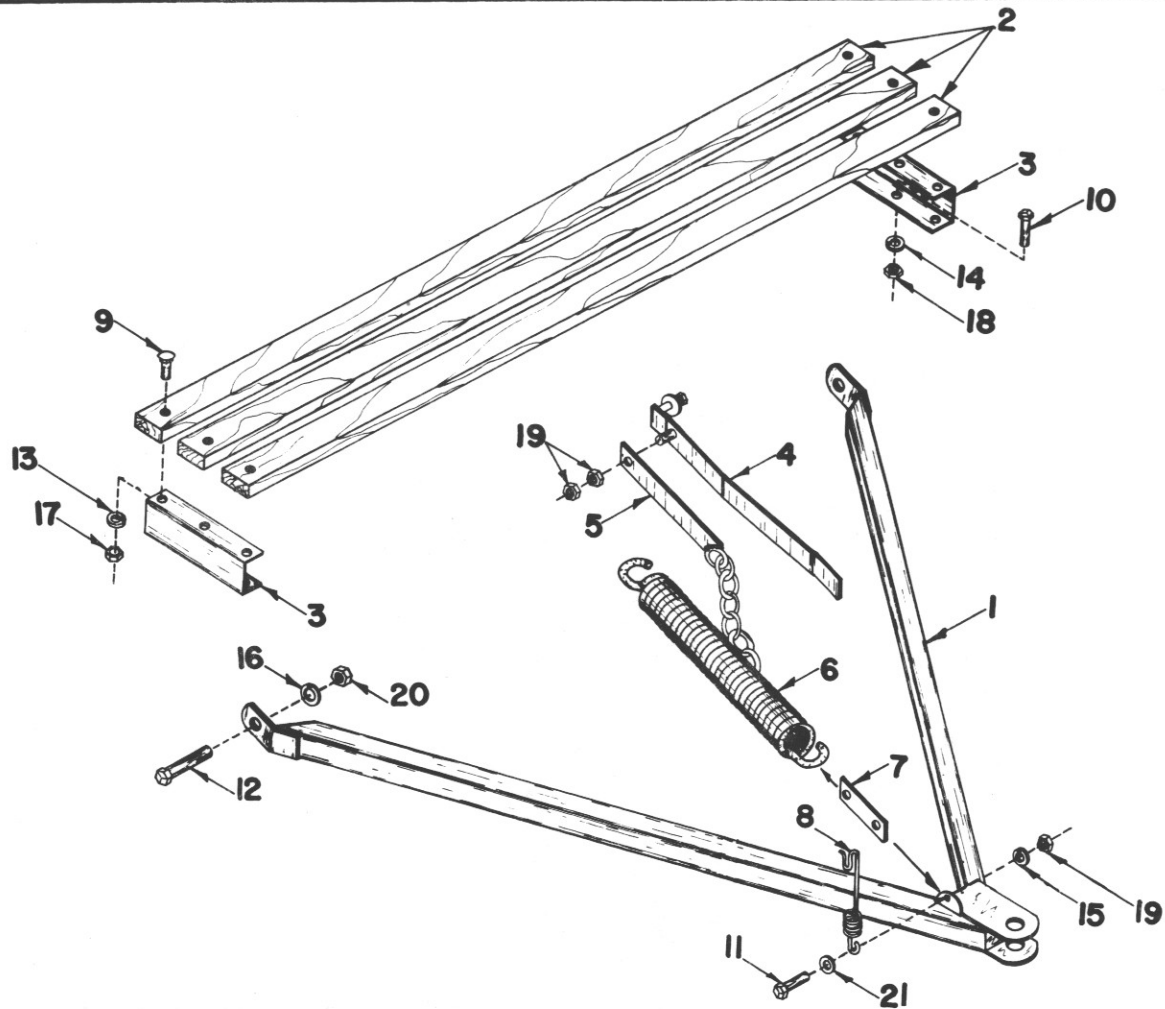
Item	Part No.	Description	No. Used
1	S-1139	Right Axle	1
2	S-1168	Outer Axle Plate (Right Wheel)	1
3	S-1285	Flange Only	2
4	S-1284	Bearing Insert (With Collar)	2
5	S-770	Sprocket - 24 Tooth	1
6	S-1169	Inner Axle Plate (Right Wheel)	1
7	S-348	Rim - 20"	1
8	S-346	6 Ply Tire - 750 x 20"	1
9	W-1902	Woodruff Key - 3/8" x 1-3/8" Alloy	1
10	F-3056	Grease Nipple - 1/4" x 90°	2
11	W-561	Allan Set Screw - 3/8" x 1/2"	2
12	S-1192	Wheel Stud Bolt - 1/2" x 1 1/2"	6
13	W-499	Hex Head Bolt - 5/8" x 2"	6
14	W-502	Hex Head Bolt - 5/8" x 2 3/4"	2
15	W-526	Lockwasher - 5/8"	8
16	W-517	Hex Nut - 5/8"	8
17	S-1196	Tapered Nut - 1/2"	6
18	S-1220	Hold On Strap - Weeder to Axle	1
19	S-347	Tube - 20"	1
20	S-1130	Spacer	2
	S-1115	Flange Bearing Assembly - 1 3/4" (Includes Items 3, 4, & 10)	



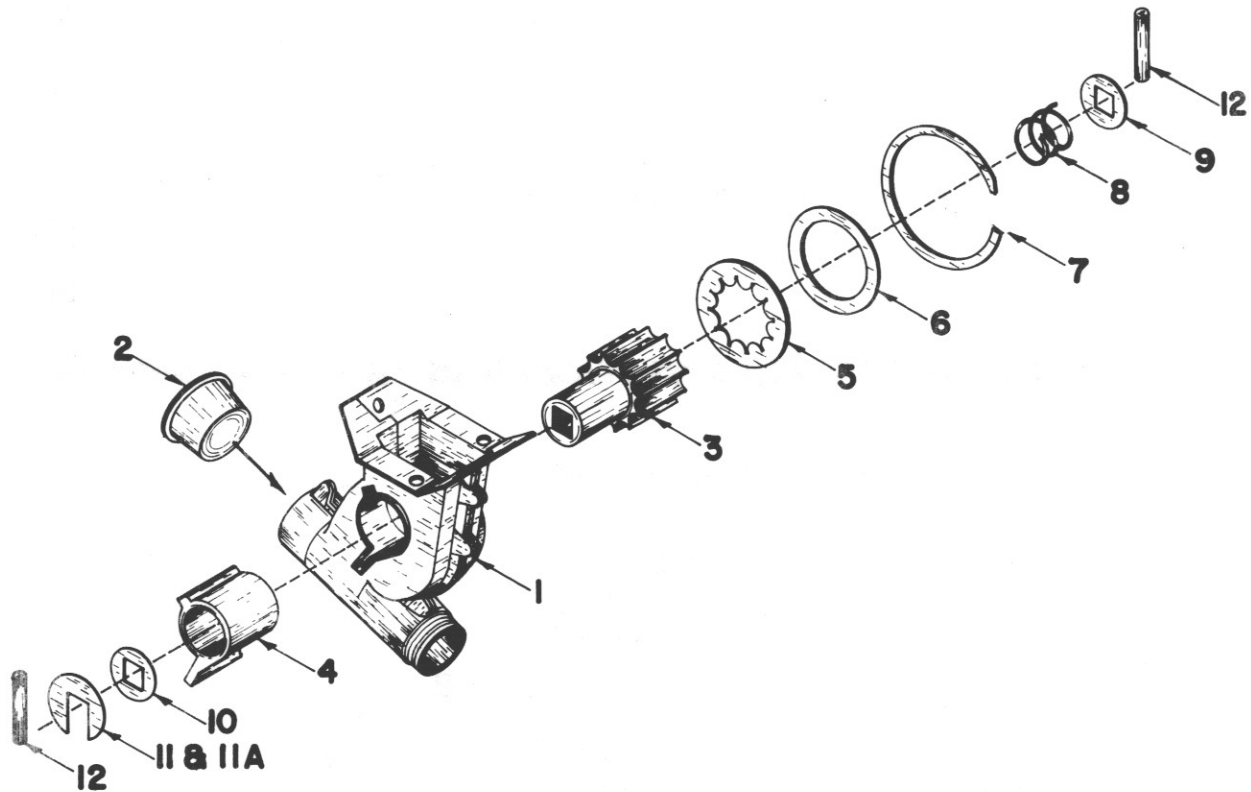
Item	Part No.	Description	No. Used
1	S-84	Flexible Grain Tube - 34"	4
2	S-3077	Flexible Grain Tube - 38"	9
3	S-3078	Flexible Grain Tube - 53"	4
4	S-3137	Spring Retainer - (2 Half Pieces)	9
5	S-3136	Retraction Spring	9
6	S-1159	Grain Tube Standard Cover W/Hole	13
7	W-131	Hair Pin - .148	5
8	S-3082	Spring Clip	5



Item	Part No.	Description	No. Used
1	S-743	Stove Bolt - 1/8" x 1/2"	4
2	S-88	Tally Counter	1
3	S-1918	Tally Worm	1
4	S-103	Shoulder Bolt	1
5	S-1921	Special Washer - (Thin)	1
6	S-1807	Tally Gear - 27 Tooth	1
7	W-538	Plain Washer	1
8	S-1919	Square Head Set Screw	1
9	W-483	Hex Head Bolt - 7/16" x 1 1/4"	1
10	S-1870	Liftarm Bracket	1
11	W-907	Cotter Pin - 5/32" x 3/4"	1
12	S-1873	Lift Arm	1
13	S-101	Shoulder bolt - 3/8" x 1-1/32"	1
14	S-1871	Tally Bracket	1
15	W-524	Lockwasher - 7/16"	1
16	W-515	Hex Nut - 7/16"	2
17	W-106	Spring - 9/16" x 4"	1
18	S-1872	Stop and Spring Lug	1
19	W-514	Hex Nut - 3/8"	1
20	S-1920	Jam Nut - 7/16"	1
21	S-3782	Spacer	1



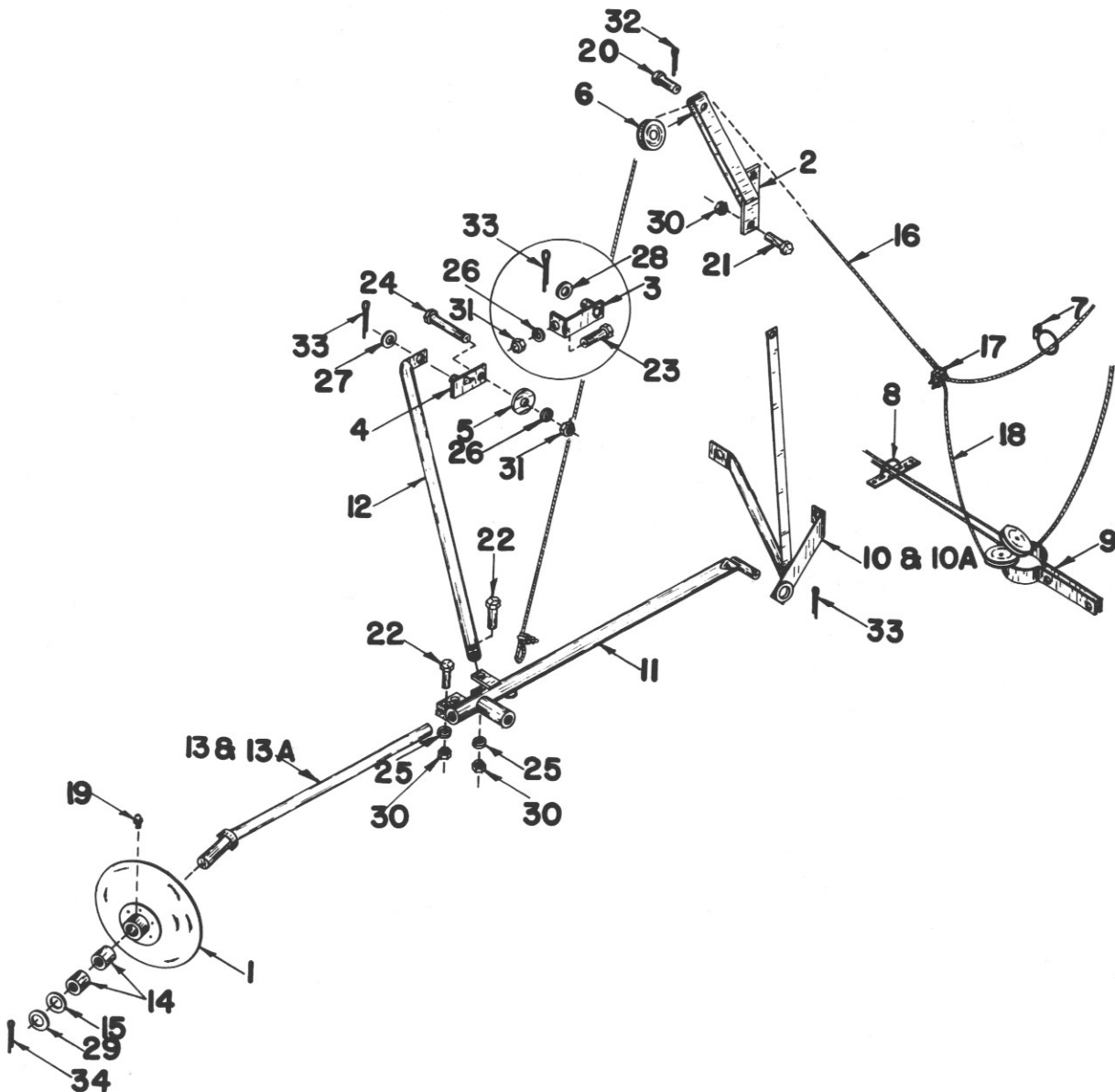
Item	Part No.	Description	No. Used
1	S-1325	Hitch	1
2	S-1863	Footboards	3
3	S-1152	Footboard Support	2
4	S-3187	Lever (Optional)	1
5	S-3188	Adjustment Chain (Optional)	1
6	BW-4	Spring (Optional)	1
7	S-3186	Spring Lug (Optional)	1
8	W-7	Hose Holder	1
9	S-1195	Carriage Bolt - $\frac{1}{4}$ " x $2\frac{1}{4}$ "	6
10	W-475	Hex Head Bolt - $\frac{3}{8}$ " x 1"	2
11	W-486	Hex Head Bolt - $\frac{1}{2}$ " x $1\frac{1}{2}$ "	1
12	W-510	Hex Head Bolt - $\frac{3}{4}$ " x $3\frac{1}{2}$ "	2
13	W-521	Lockwasher - $\frac{1}{4}$ "	6
14	W-523	Lockwasher - $\frac{3}{8}$ "	2
15	W-525	Lockwasher - $\frac{1}{2}$ "	1
16	W-527	Lockwasher - $\frac{3}{4}$ "	2
17	W-512	Hex Nut - $\frac{1}{4}$ "	6
18	W-514	Hex Nut - $\frac{3}{8}$ "	2
19	W-516	Hex Nut - $\frac{1}{2}$ "	3
20	W-518	Hex Nut - $\frac{3}{4}$ "	2
21	C-333	Hose Holder Washer	1
	S-1836	Hitch Hold Up Kit - Optional - (Incl. Items 4, 5, 6, 7 & 19)	



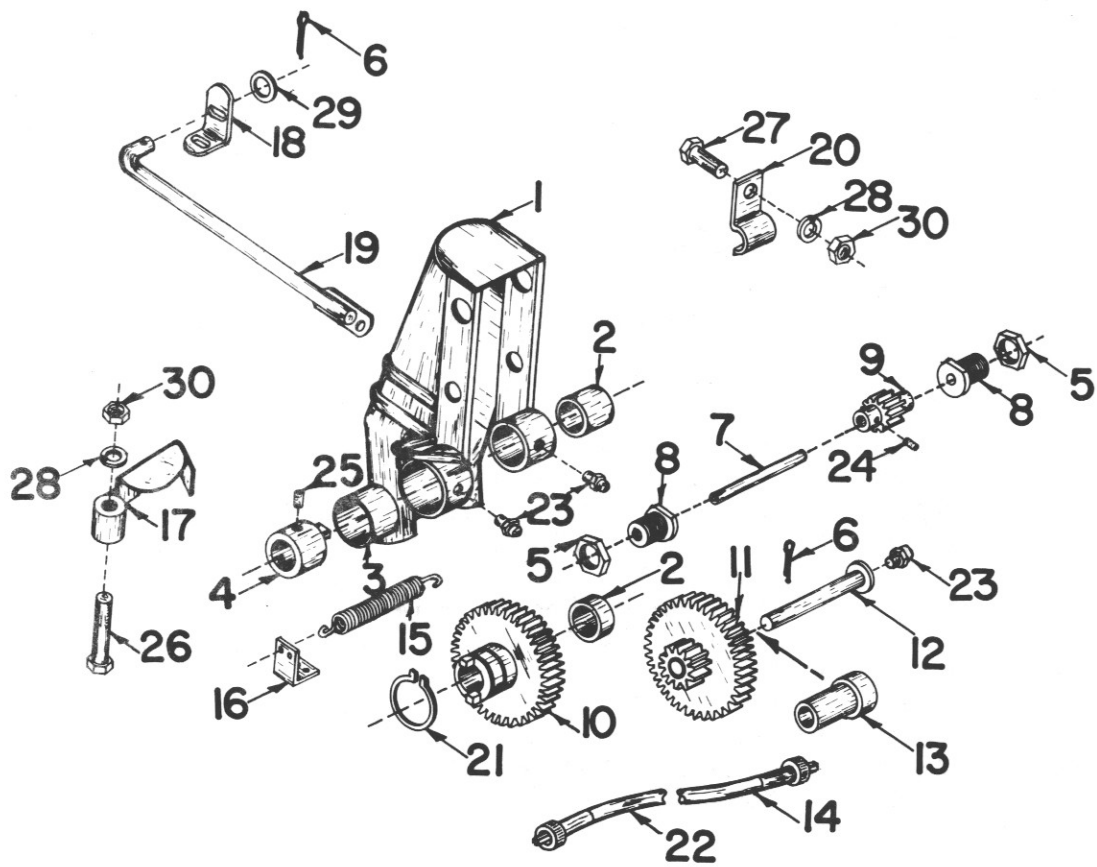
Item	Part No.	Description	No. Used
1	S-3030	Seed Cup.....	17
2	S-3251	Seed Cup Plug	17
3	S-149	Fluted Roller	17
4	S-147	Shut Off	17
5	S-3138	Fluted Washer	17
6	S-3139	Wear Washer	17
7	S-3140	Snap Ring	17
8	S-150	Spring.....	17
9	S-151	Washer (To Fit Inside Fluted Roller)	17
10	S-146	Outer Washer.....	17
11	S-241	Thick Shim.....	As Req'd
11A	S-242	Thin Shim.....	As Req'd
12	S-760	Spring Pin - 5/32" x 1"	34
	S-3134	Seed Cup Assembly (Incl. All Above Items Except #2)	

Optional Equipment

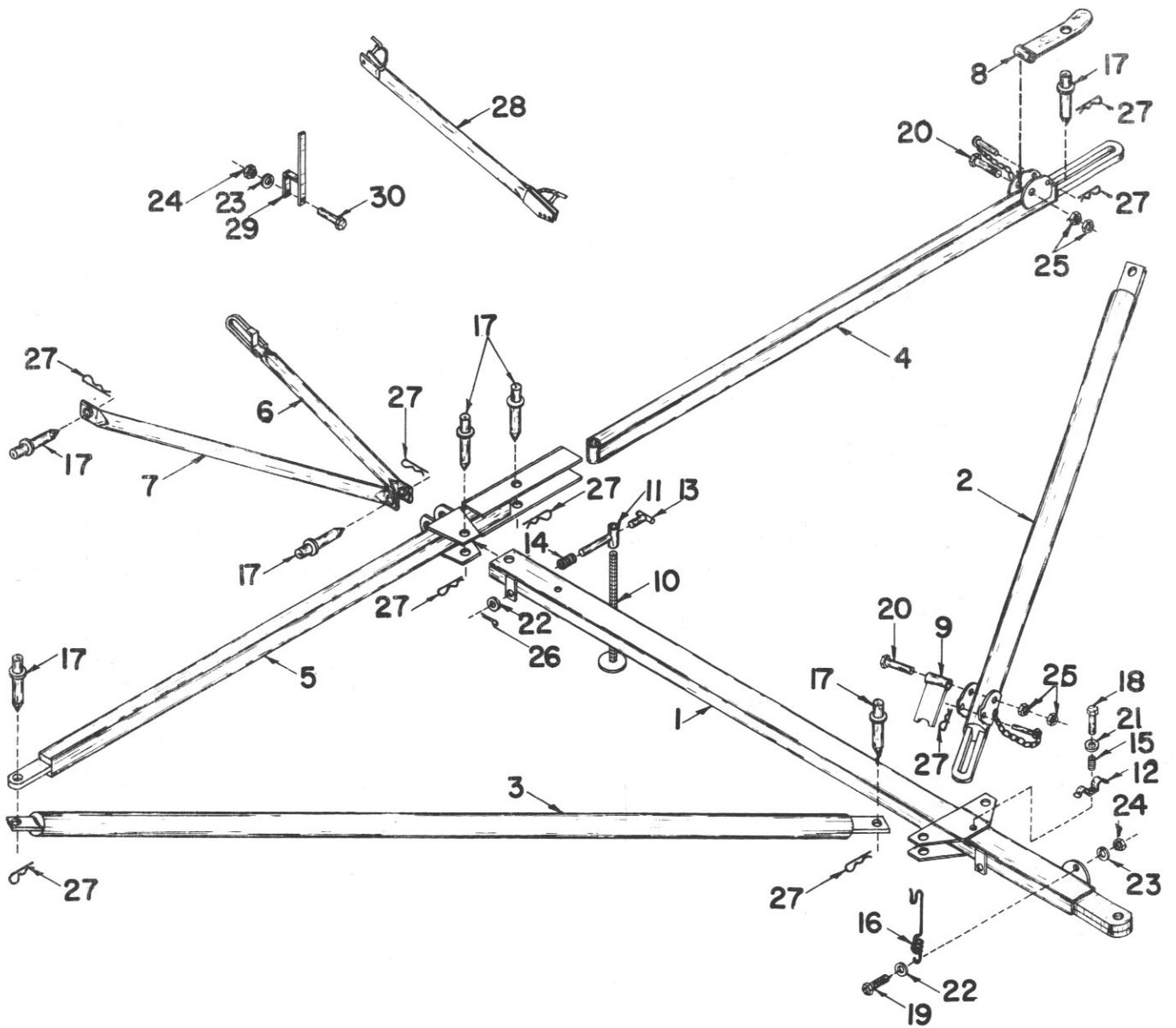
MANUAL WHEEL MARKERS



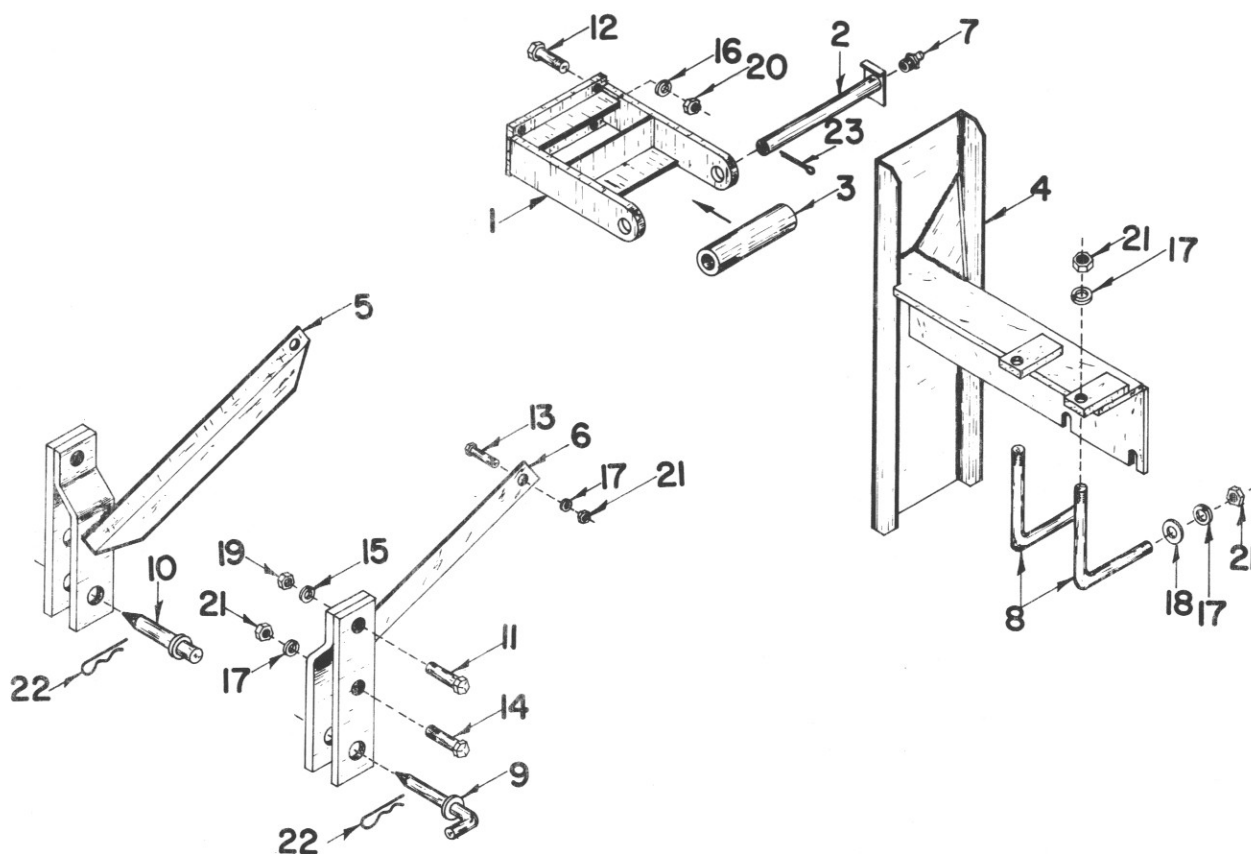
Item	Part No.	Description	No. Used
1	S-362	Disc	2
2	S-1236	Pulley Lift Brace	2
3	S-359	Right Front Mounting Bracket	1
4	S-1880	Left Front Mounting Bracket	1
5	S-1879	Special Washer	1
6	S-1241	Cast Pulleys	5
7	S-1874	Cable Guide	1
8	S-1929	Lower Rope Guide	1
9	S-1877	Support Bracket for Rope Pulleys	1
10	S-1821	Left Rear Mounting Bracket	2
10A	S-1881	Right Rear Mounting Bracket	1
11	S-1876	Wheel Marker Pipe	2
12	S-1875	Brace Pipe	2
13	S-365	Disc Axle (Right)	1
13A	S-923	Disc Axle (Left)	1
14	C-223	Nylon Bushing	4
15	S-368	Nylon Washer	2
16	S-1930	Lift Cable	1
17	S-1240	Cable Clamp	4
18	S-1098	Rope	1
19	S-752	Grease Nipple - 1/4" Straight	4
20	BW-8	Clevis Pin - 1/2" x 1 1/4"	5
21	W-187	Hex Head Bolt - 3/8" x 1 1/4"	8
22	W-477	Hex Head Bolt - 3/8" x 1 1/2"	6
23	W-486	Hex Head Bolt - 1/2" x 1 1/2"	2
24	W-495	Hex Head Bolt - 1/2" x 4"	2
25	W-523	Lockwasher - 3/8"	4
26	W-525	Lockwasher - 1/2"	3
27	W-541	Plain Washer - 3/4"	2
28	S-543	Machinery Washer - 3/4" x 14 G.A.	4
29	S-367	Washer - 1" O.D. x 1/4"	4
30	W-514	Hex Nut - 3/8"	10
31	W-516	Hex Nut - 1/2"	3
32	W-528	Cotter Pin - 1/8" x 1"	5
33	W-532	Cotter Pin - 3/16" x 1 1/4"	5
34	W-534	Cotter Pin - 1/4" x 1 1/4"	2



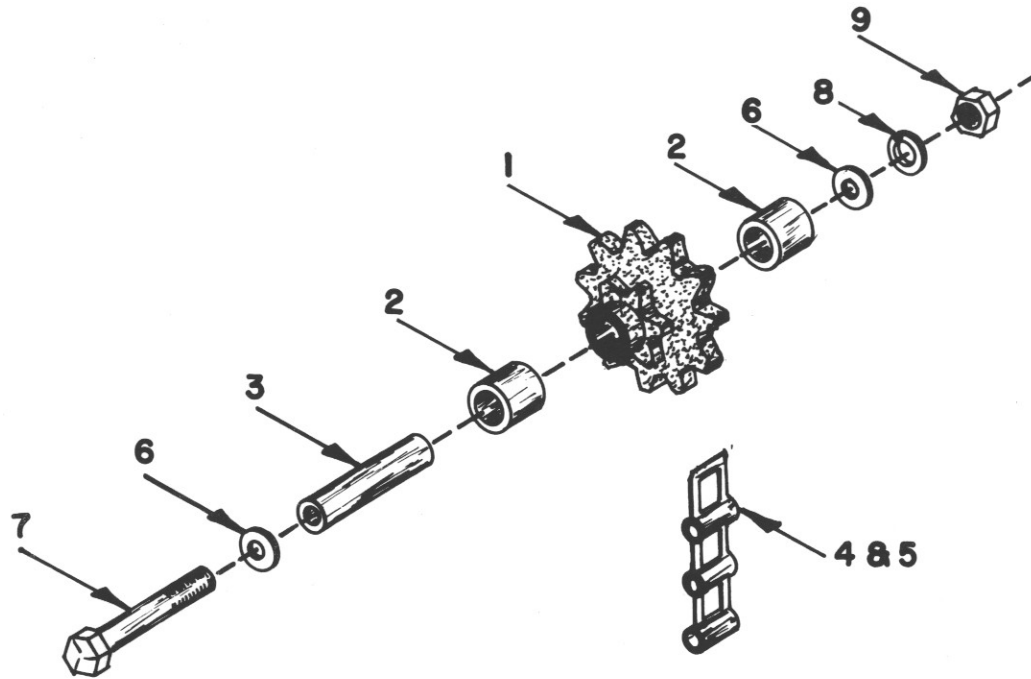
Item	Part No.	Description	No. Used
1	S-1913	Fertilizer Drive Frame (Incl. Items 2 & 3)	1
2	S-141	Oilite Bushing - 1" x 1 1/4" x 1 1/4"	1
3	S-3200	Oilite Bushing - 1-5/8" x 13/16"	1
4	S-1914	Clutch Collar	1
5	S-1906	Hex Nut - 1"	2
6	S-531	Cotter Pin - 3/16" x 1"	2
7	S-1911	Axle (Cable Drive Sprocket)	1
8	S-1909	Bearing	2
9	S-1907	Cable Drive Sprocket - 13 Tooth	1
10	S-1912	44 Tooth Clutch Gear	1
11	S-1908	44 Tooth Gear - 13 Tooth Gear	1
12	S-1915	Axle	1
13	S-1916	Nylon Bushing and Spacer	1
14	FC-78A	Cable Assembly - 78"	1
	FC-78C	Cable Core - Only - 78"	
	FC-78H	Cable Housing - Only - 78"	
15	W-106	Spring	2
16	S-1904	Spring Lug	1
17	S-1903	Disengaging Slide Bracket	1
18	S-1905	Lug (For Release Rod)	1
19	S-1910	Release Rod	1
20	W-415	Clamp	1
21	S-1924	Snap Ring - 1-7/16" I.D.	1
22	FC-42A	Cable Assembly - 42"	1
	FC-42C	Cable Core Only - 42"	
	FC-42H	Cable Housing Only - 42"	
23	S-752	Grease Nipple - 1/4" Straight	3
24	S-1202	Allan Set Screw - 1/4" x 1/4"	1
25	W-554	Allan Set Screw - 5/16" x 5/16"	1
26	W-1854	Hex Head Bolt - 3/8" x 1"	1
27	W-475	Hex Head Bolt - 3/8" x 3"	1
28	W-523	Lockwasher - 3/8"	2
29	S-1925	Washer - 1/2" Sae	1
30	W-514	Hex Nut - 3/8"	2
	S-3023	Fertilizer Drive Assembly (Includes All Above Items Except Cables)	



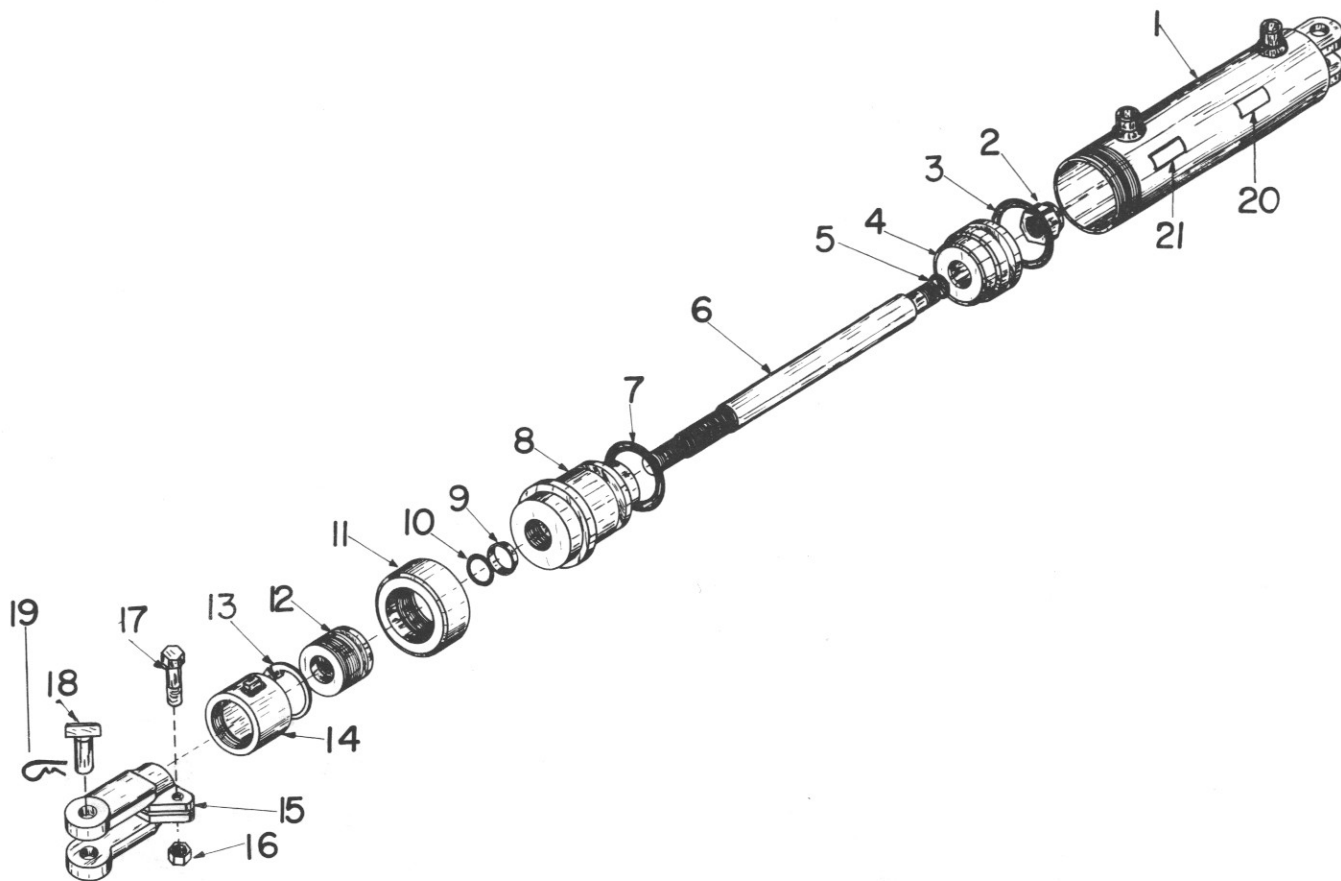
Item	Part No.	Description	No. Used
1	S-1394	Main Hitch	1
2	S-1894	Left Hitch Brace	1
3	S-1893	Right Hitch Brace	1
4	S-1898	Left Half Spreader Bar	1
5	S-1897	Right Half Spreader Bar	1
6	S-1895	Left Stabilizer Tube - (Slotted)	1
7	S-1896	Right Stabilizer Tube	1
8	S-1401	Pin Stop- 1" (Curved)	1
9	S-1400	Pin Stop - 1"	1
10	S-1399	Hitch Stand	2
11	S-1402	Hitch Stand Pivot	2
12	S-1405	Hydraulic Hose Clip	2
13	S-1403	Set Screw Handle	2
14	S-1407	Spring - 1½" x 1¾"	2
15	S-1406	Spring - 9/16" O.D. x 2"	2
16	W-7	Hose Holder	1
17	S-1404	Hitch Pin - 1"	9
18	W-478	Hex Head Bolt - 3/8" x 2"	2
19	W-486	Hex Head Bolt - ½" x 1½"	1
20	W-495	Hex Head Bolt - ½" x 4"	2
21	W-538	Flat Washer - 3/8"	2
22	W-539	Flat Washer - ½"	3
23	W-525	Lockwasher - ½"	2
24	W-516	Hex Nut - ½"	2
25	W-567	Lock Nut - ½"	4
26	W-534	Cotter Pin - ¼" x 1¼"	2
27	BW-11	Hair Pin - 3/16"	11
28	S-3087	Hitch Hold Up Tube	2
29	S-1408	Hitch Holder	2
30	W-492	Hex Head Bolt - ½" x 3"	2



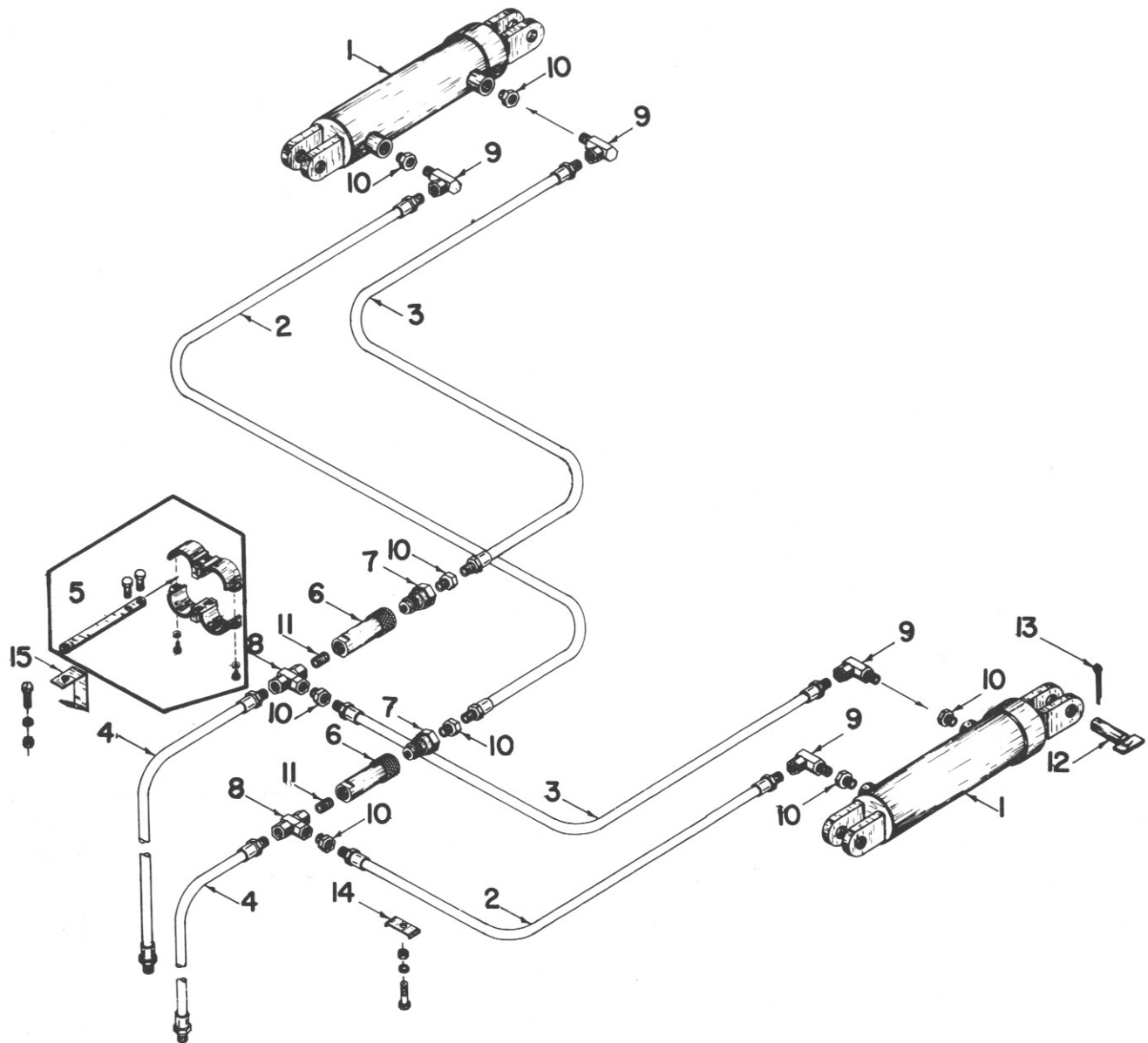
Item	Part No.	Description	No. Used
1	S-1886	Roller Bracket	1
2	S-1884	Roller Pin - 1" x 7 $\frac{3}{4}$ "	1
3	S-1885	Roller	1
4	S-1887	Right Bumper Plate	1
5	S-1888	Right Stabilizer Tube Bracket	1
6	S-1889	Left Stabilizer Tube Bracket	1
7	S-752	Grease Nipple - $\frac{1}{4}$ " Straight	1
8	S-1890	L-Shaped Bolts	2
9	S-1891	L-Shaped Pin	1
10	S-1404	Hitch Pin - 1"	1
11	W-479	Hex Head Bolt - $\frac{3}{8}$ " x $2\frac{1}{4}$ "	2
12	S-1892	Hex Head Bolt - $\frac{7}{16}$ " x $1\frac{3}{4}$ "	4
13	W-486	Hex Head Bolt - $\frac{1}{2}$ " x $1\frac{1}{2}$ "	2
14	W-488	Hex Head Bolt - $\frac{1}{2}$ " x 2"	2
15	W-523	Lockwasher - $\frac{3}{8}$ "	2
16	W-524	Lockwasher - $\frac{7}{16}$ "	4
17	W-525	Lockwasher - $\frac{1}{2}$ "	8
18	W-539	Flat Washer - $\frac{1}{2}$ "	2
19	W-514	Hex Nut - $\frac{3}{8}$ "	2
20	W-515	Hex Nut - $\frac{7}{16}$ "	4
21	W-516	Hex Nut - $\frac{1}{2}$ "	8
22	BW-11	Hair Pin - $\frac{3}{16}$ "	2
23	W-535	Cotter Pin - $\frac{1}{4}$ " x $1\frac{1}{2}$ "	1



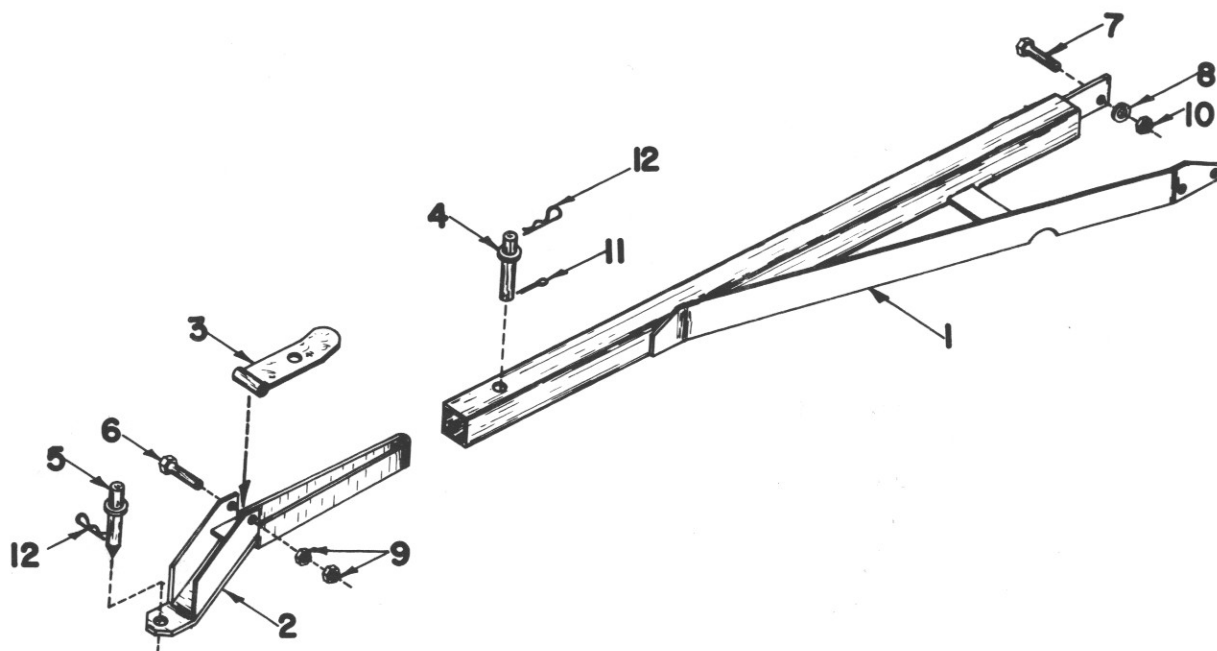
Item	Part No.	Description	No. Used
1	S-1262	Double Sprocket Assembly - 1-6T. & 1-11T. (Includes #2).....	1
2	S-141	Oilite Bushing - 1¼" O.D. x 1" I.D. x 1".....	2
3	S-1305	Axle Shaft	1
4	S-111	21 Link Chain - #51 Link	1
5	S-1301	18 Link Chain - #51 Link	1
6	W-538	Plain Washer - 3/8".....	2
7	S-1299	Hex Head Bolt - 3/8" x 4½"	1
8	W-523	Lockwasher - 3/8"	1
9	W-514	Hex Nut - 3/8"	1
	S-1826	Slow Speed Kit	



Item	Part No.	Description	No. Used
1	C-2013	Barrel	1
2	C-2017	Shaft Nut — Cleveloc 7/8"	1
3	C-2015	Piston Seal — 3" OD x 3/16" C/S	1
4	C-2014	Piston	1
5	C-2016	Shaft Static Seal — 7/8" OD x 1/16" C/S	1
6	C-2011	Shaft	1
7	C-2012	Gland Static Seal	1
8	C-2010	Gland	1
9	C-2008	Shaft Seal	1
10	C-2007	Shaft Wiper	1
11	C-2009	Collar	1
12	C-2004	Inner Stroke Control Sleeve	1
13	C-2005	Snap Ring	1
14	C-2006	Outer Stroke Control Sleeve	1
15	C-2003	Shaft Clevis	1
16	W-514	Hex Nut — 3/8"	1
17	W-477	Hex Head Bolt — 3/8" x 1 1/2"	1
18	W-558	Cylinder Pin	2
19	BW-11	Hair Pin	2
20	C-2019	Caution Sticker	1
21	C-2018	Part No. Plate	1
	C-2000	Cylinder Assembly — (Includes All Above Items)	
	C-2002	Seal Kit — (Includes Items 3,5,7,9 & 10)	

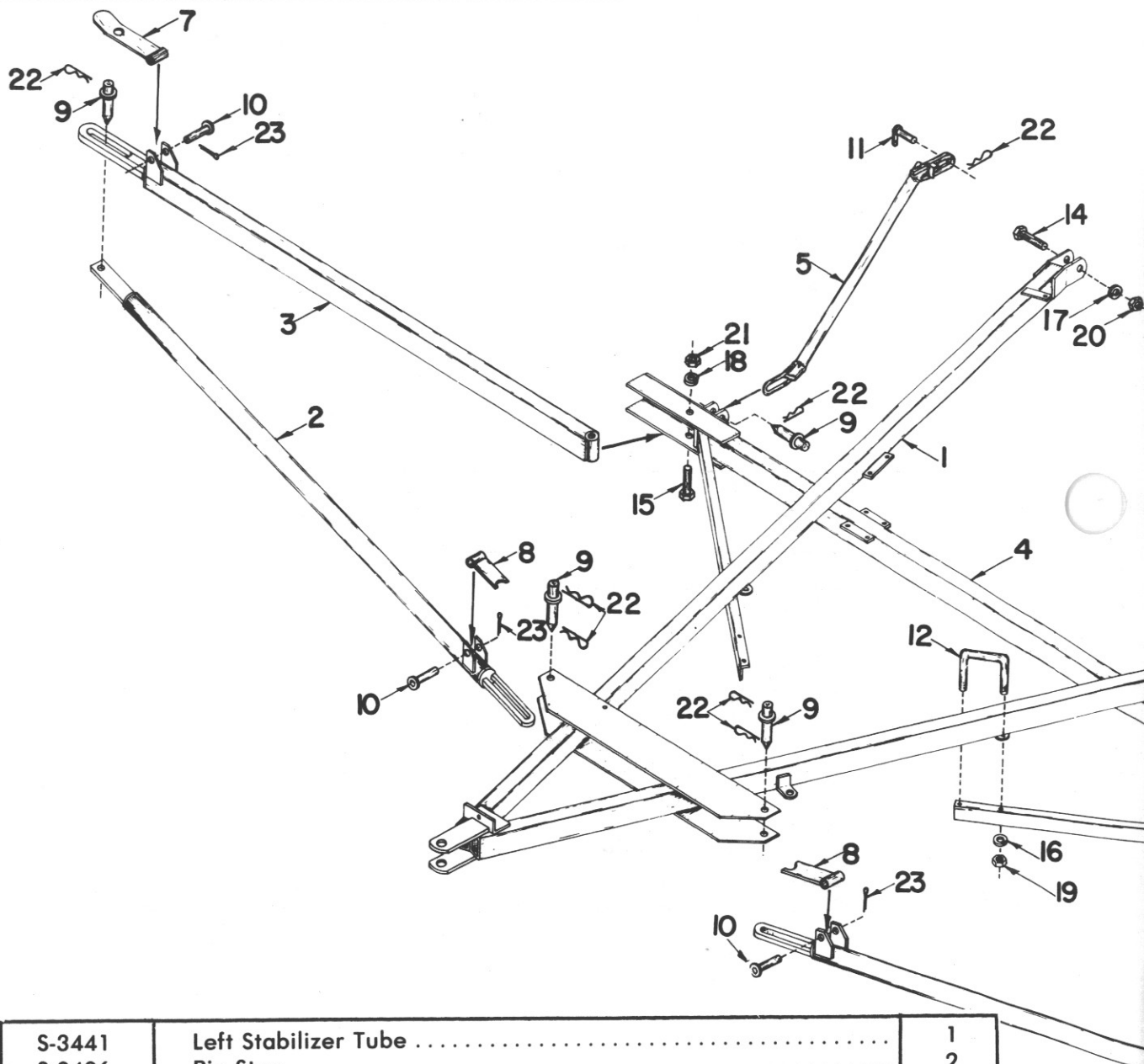


Item	Part No.	Description	No. Used
1	C-2000	Cylinder - 3" x 8" Agricultural.....	2
2	S-1376	Hydraulic Hose - 3/8" x 12'.....	2
3	S-1377	Hydraulic Hose - 3/8" x 13'.....	2
4	S-1378	Hydraulic Hose - 1/2" x 15'.....	2
5	S-1379	Breakaway Clamp.....	1
6	C-818	Female Breakaway Coupler.....	2
7	C-817	Male Coupler.....	2
8	S-1380	Swivel Tee - 1/2" F/F/F.....	2
9	C-680	Swivel Elbow - 3/8" x 90° M/F.....	4
10	C-719	Adapter - 1/2" to 3/8".....	8
11	S-1381	Nipple - 1/2" x 1 1/2".....	2
12	W-558	Clevis Pin.....	4
13	W-535	Cotter Pin - 1/4" x 1 1/2".....	4
14	W-1281	Pipe Clamp.....	6
15	S-1382	Breakaway Clamp Bracket.....	1



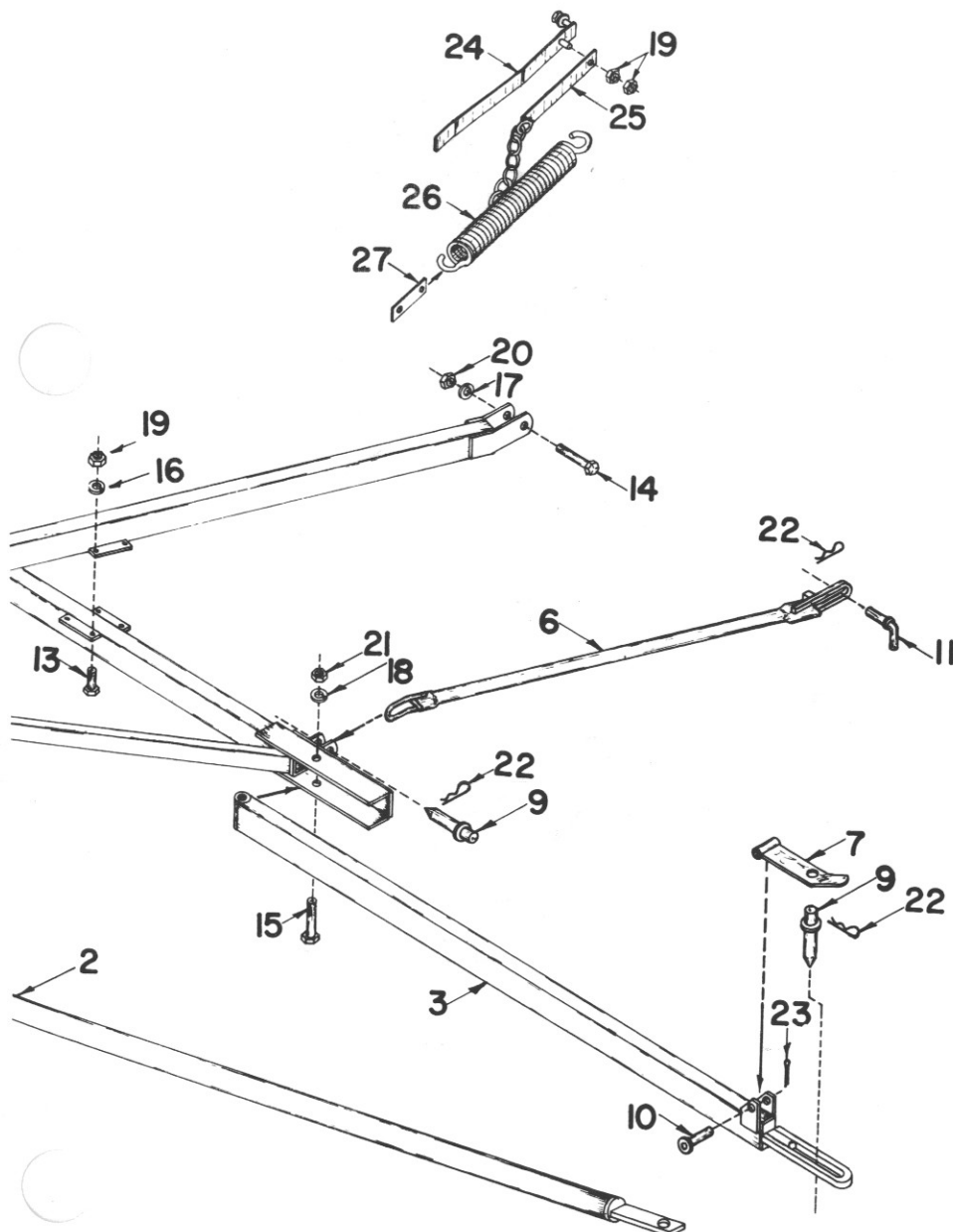
Item	Part No.	Description	No. Used
1	S-3467	Trailing Section.....	1
2	S-3466	Telescoping Hitch.....	1
3	S-1401	Pin Stop - 1" (Curved).....	1
4	S-3784	Pin - $\frac{3}{4}$ ".....	1
5	S-1404	Hitch Pin - 1".....	1
6	W-495	Hex Head Bolt - $\frac{1}{2}$ " x 4".....	1
7	W-498	Hex Head Bolt - $\frac{5}{8}$ " x $1\frac{3}{4}$ ".....	4
8	W-526	Lockwasher - $\frac{5}{8}$ ".....	4
9	W-567	Lock Nut - $\frac{1}{2}$ ".....	2
10	W-517	Hex Nut - $\frac{5}{8}$ ".....	4
11	W-532	Cotter Pin - $\frac{3}{16}$ " x $1\frac{1}{4}$ ".....	1
12	BW-11	Hair Pin - $\frac{3}{16}$ ".....	2
	S-3785	Long Trailing Hitch Assembly (Incl. All of the Above Items)	

Item	Part No.	Description	No. Used
1	S-3433	Main Hitch	1
2	S-3432	Hitch Braces	2
3	S-3434	Outer Spreader Bars	2
4	S-3438	Centre Spreader Bar	1
5	S-3440	Right Stabilizer Tube	1

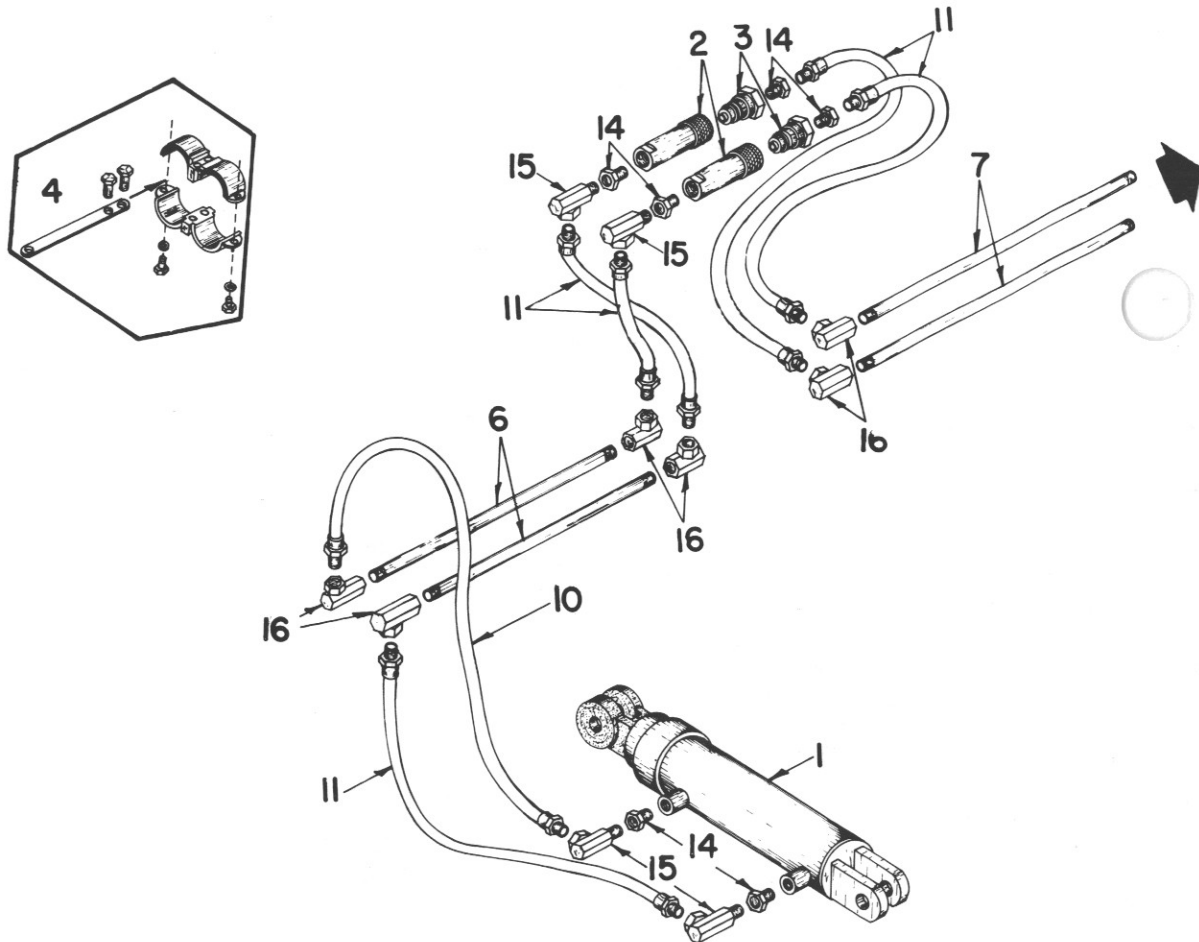


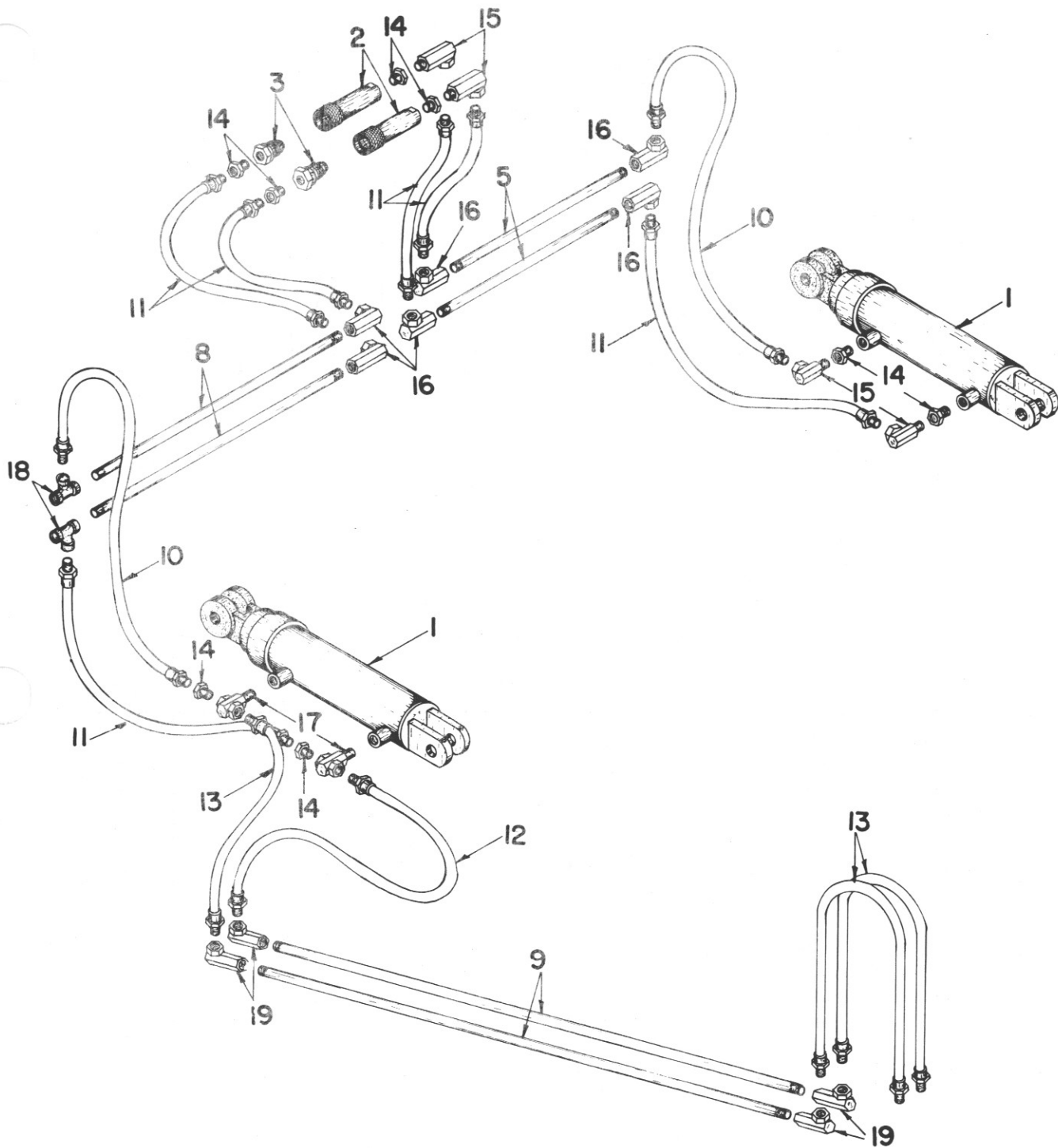
6	S-3441	Left Stabilizer Tube	1
7	S-3436	Pin Stop	2
8	S-3437	Pin Stop	2
9	S-1404	1" Hitch Pin	6
10	S-3445	Pin for Pin Stops	4
11	S-1891	Stabilizer Tube Pin	2
12	S-3439	U-Bolt	2
13	W-486	Hex Head Bolt - 1/2" x 1 1/2"	8
14	S-1175	Hex Head Bolt - 3/4" x 4 1/2"	2

Item	Part No.	Description	No. Used
15	C-699	Hex Head Bolt - 1" x 6"	2
16	W-525	Lockwasher - 1/2"	8
17	W-527	Lockwasher - 3/4"	2
18	C-705	Lockwasher - 1"	2
19	W-516	Hex Nut - 1/2"	8
20	W-518	Hex Nut - 3/4"	2
21	W-520	Hex Nut - 1"	2
22	BW-11	Hair Pin - 3/16"	10
23	S-531	Cotter Pin - 3/16" x 1"	4
24	S-3187	Lever - (Optional)	3
25	S-3188	Adjustment Chain - (Optional)	3
26	BW-4	Spring - (Optional)	3
27	S-3186	Spring Lug - (Optional)	3

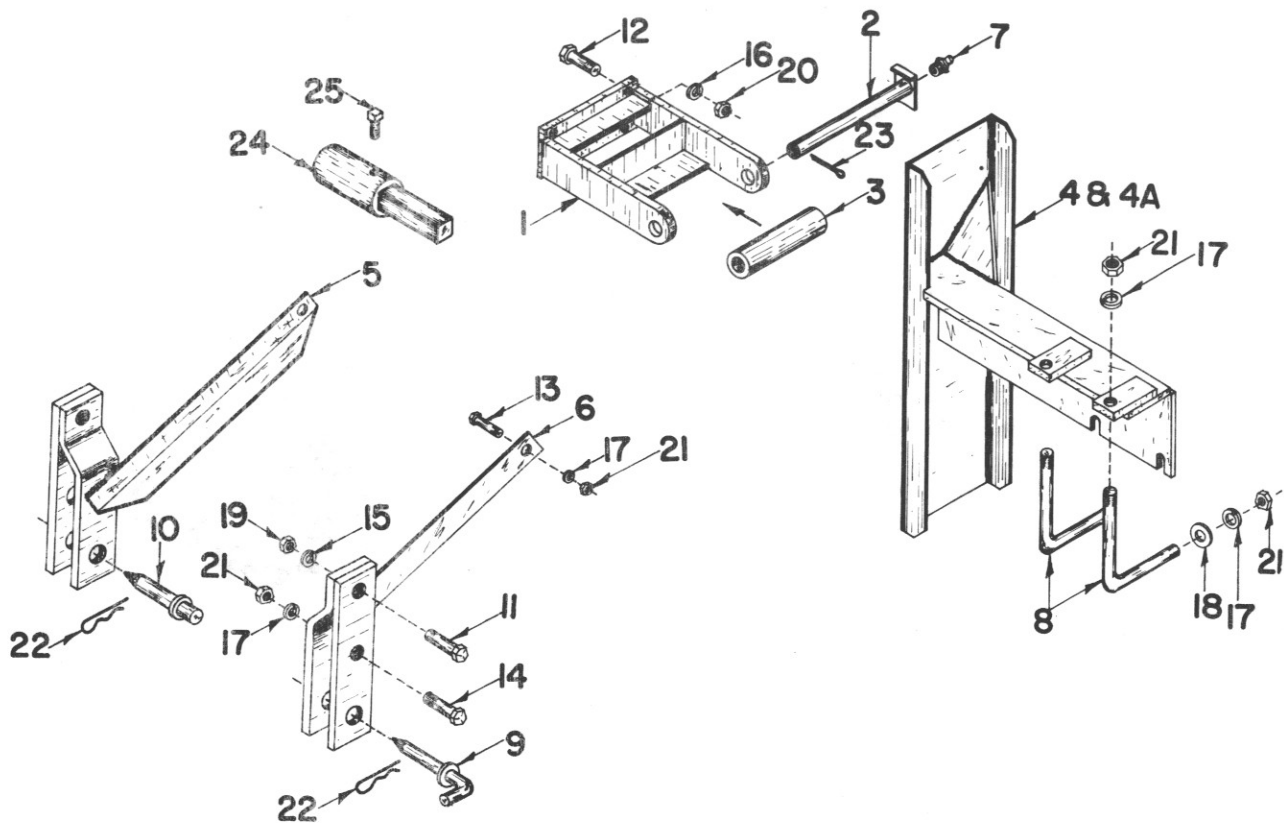


Item	Part No.	Description	No. Used
1	C-2000	3" x 8" Hydraulic Cylinder	3
2	C-818	8000 Pioneer Breakaway	4
3	C-817	8000 Male Pioneer Tip	4
4	S-1379	8000 Pioneer Clamp - Assembly	2
5	S-3648	3/8" x 36" Oil Line	2
6	C-669	3/8" x 48" Oil Line	2
7	S-3447	3/8" x 56" Oil Line	2
8	S-3446	3/8" x 71" Oil Line	2
9	C-3463	1/2" x 143" Oil Line	2
10	C-893	3/8" x 20" Hydraulic Hose	3
11	C-891	3/8" x 24" Hydraulic Hose	11
12	W-1669	1/2" x 60" Hydraulic Hose	1
13	C-1484	1/2" x 72" Hydraulic Hose	3

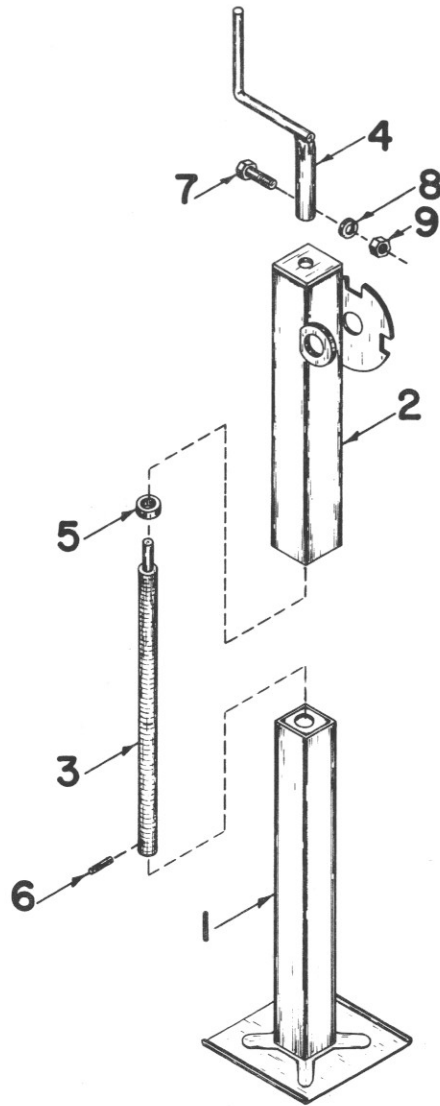




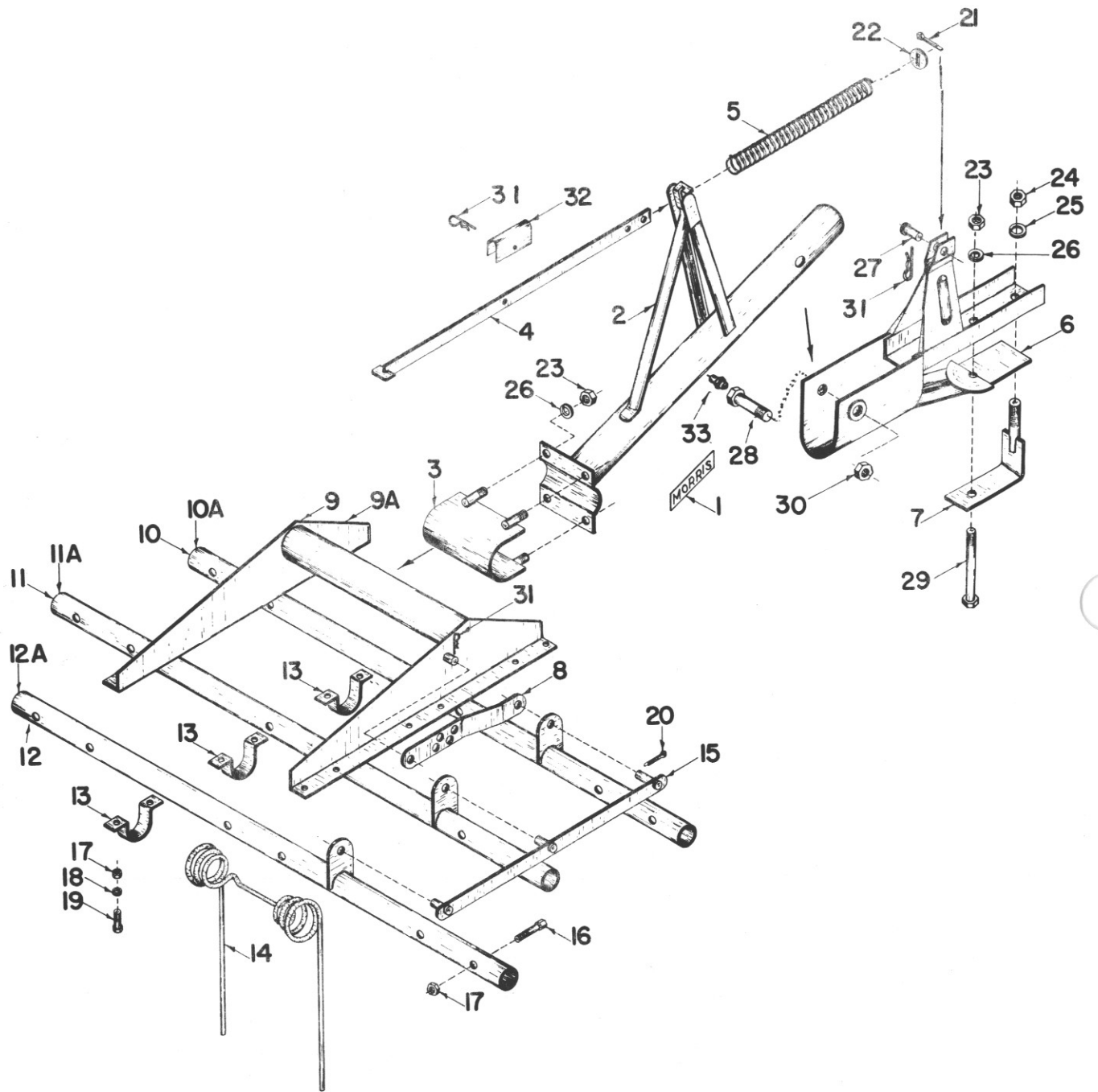
Item	Part No.	Description	No. Used
14	C-719	3/8" x 1/2" Bushing	14
15	C-680	3/8" x 90° Swivel Elbow M/F	8
16	C-675	3/8" x 90° Swivel Elbow F/F	16
17	C-1985	1/2" Swivel Tee F/F/M	2
18	C-674	3/8" Cast Tee	2
19	C-1487	1/2" x 90° Swivel Elbow F/F	4



Item	Part No.	Description	No. Used
1	S-1886	Roller Bracket	2
2	S-1884	Roller Pin - 1" x 7 ³ / ₄ "	2
3	S-1885	Roller	2
4	S-1887	Right Bumper Plate (Illustrated)	1
4A	S-3088	Left Bumper Plate	1
5	S-1888	Right Stabilizer Tube Bracket	2
6	S-1889	Left Stabilizer Tube Bracket	2
7	S-752	Grease Nipple - 1/4" Straight	2
8	S-1890	L-Shaped Bolts	4
9	S-1891	L-Shaped Pin	2
10	S-1404	Hitch Pin - 1"	2
11	W-479	Hex Head Bolt - 3/8" x 2 1/4"	4
12	S-1892	Hex Head Bolt - 7/16" x 1 3/4"	8
13	W-486	Hex Head Bolt - 1/2" x 1 1/2"	4
14	W-488	Hex Head Bolt - 1/2" x 2"	4
15	W-523	Lockwasher - 3/8"	4
16	W-524	Lockwasher - 7/16"	8
17	W-525	Lockwasher - 1/2"	16
18	W-539	Flat Washer - 1/2"	4
19	W-514	Hex Nut - 3/8"	4
20	W-515	Hex Nut - 7/16"	8
21	W-516	Hex Nut - 1/2"	16
22	BW-11	Hair Pin - 3/16"	4
23	W-535	Cotter Pin - 1/4" x 1 1/2"	2
24	S-3198	Pressure Shaft Extension	1
25	S-755	Square Head Setscrew - 7/16" x 1"	1



Item	Part No.	Description	No. Used
1	S-350	Base	1
2	S-351	Sleeve	1
3	S-352	Screw	1
4	S-353	Crank	1
5	S-356	Thrust Bearing — T63	1
6	W-1308	Spiral Pin — 3/16" x 1 1/4"	1
7	W-472	Hex Head Bolt — 5/16" x 1 1/4"	1
8	W-522	Lockwasher — 5/16"	1
9	W-513	Hex Nut — 5/16"	1
	W-733	Hitch Jack Assembly (Includes all above items)	

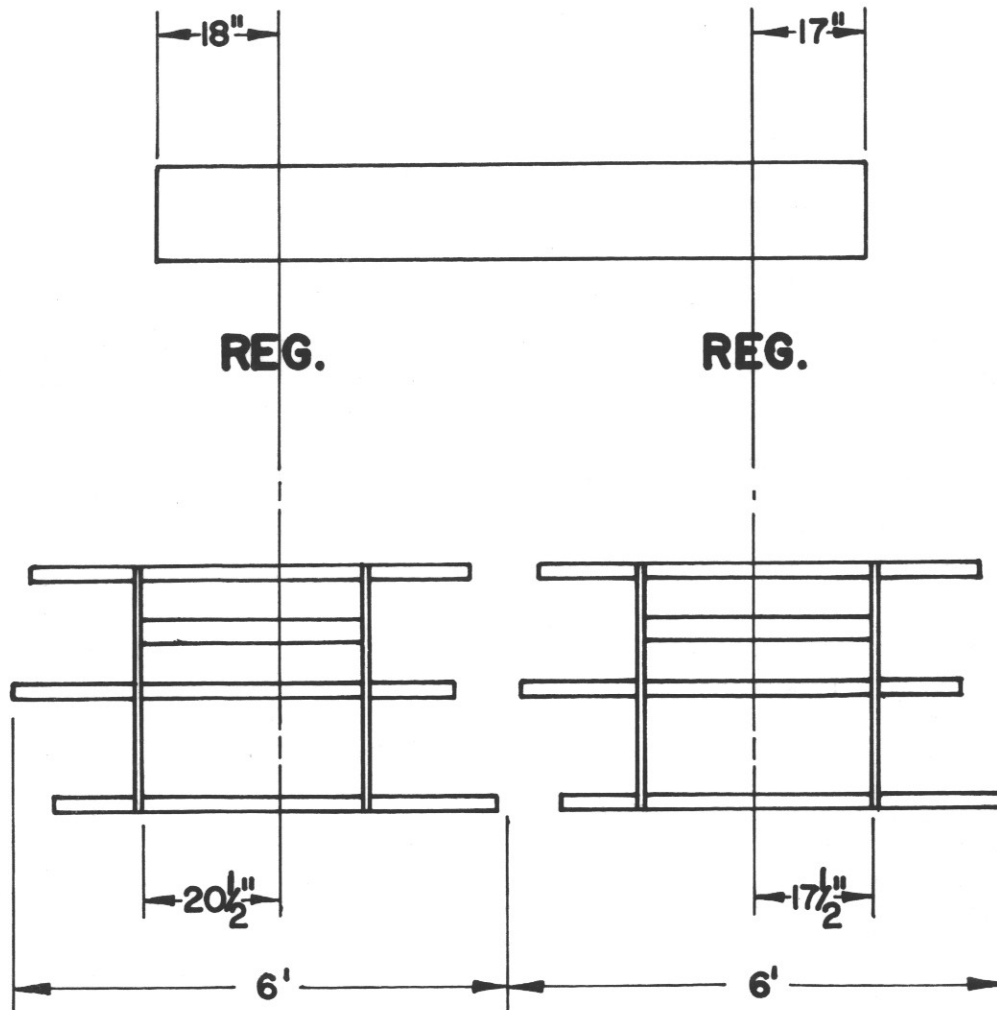


HARROWS

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Item	Part No.	Description	No. Used	
			4½'	6'
1	H-1813	Morris Decal	1	1
2	H-3143	Carrier Arm	1	1
3	H-1589	Clamp	1	1
4	H-3144	Lift Bar	1	1
5	H-1814	Pressure Spring	1	1
6	H-3145	Mounting Bracket	1	1
7	H-3014	Clamp (Mounting Bracket)	1	1
8	H-1596	Adjustment Lever	1	1
9	H-1584	Harrow Head — 4½' (1.37 m.)	1	—
9A	H-1585	Harrow Head — 6' (1.83 m.)	—	1
10	H-1586	Front Carrier Pipe — 4½' (1.37 m.)	1	—
10A	H-1587	Front Carrier Pipe — 6' (1.83 m.)	—	1
11	H-1742	Centre Carrier Pipe — 4½' (1.37 m.)	1	—
11A	H-1744	Centre Carrier Pipe — 6' (1.83 m.)	—	1
12	H-1743	Rear Carrier Pipe — 4½' (1.37 m.)	1	—
12A	H-1745	Rear Carrier Pipe — 6' (1.83 m.)	—	1
13	H-1593	Clamp	6	6
14	H-1791	Harrow Tine — 3/8" x 16" (.97 x 40.64 cm.)	9	12
15	H-1595	Connecting Bar	1	1
16	H-3024	Hex Head Bolt — 3/8" x 2" W/Special Head	18	24
17	W-514	Hex Nut — 3/8"	30	36
18	W-523	Lockwasher — 3/8"	12	12
19	W-475	Hex Head Bolt — 3/8" x 1"	12	12
20	W-907	Cotter Pin — 5/32" x 3/4"	3	3
21	H-3152	Cotter Pin — 3/16" x 1/4"	1	1
22	H-3151	Washer (Slotted)	1	1
23	W-516	Hex Nut — 1/2"	5	5
24	W-517	Hex Nut — 5/8"	2	2
25	W-526	Lockwasher — 5/8"	1	1
26	W-525	Lockwasher — 1/2"	5	5
27	H-3159	Clevis Pin — 3/8" x 1"	1	1
28	H-3051	Hex Head Bolt — 5/8" x 4 1/4" W/Special thread	1	1
29	W-496	Hex Head Bolt — 1/2" x 5 1/2"	1	1
30	W-1472	Jam Nut — 5/8"	1	1
31	W-131	Hair Pin — .148	3	3
32	H-3256	Hold Up Bracket	1	1
33	S-752	Grease Zerk - 1/4" Straight	1	1
	H-3073	Carrier Arm Assembly (Includes 1 to 7 & 21 to 32)		

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