

# HINIKER ROW CULTIVATOR SERIES 5000 INDEX

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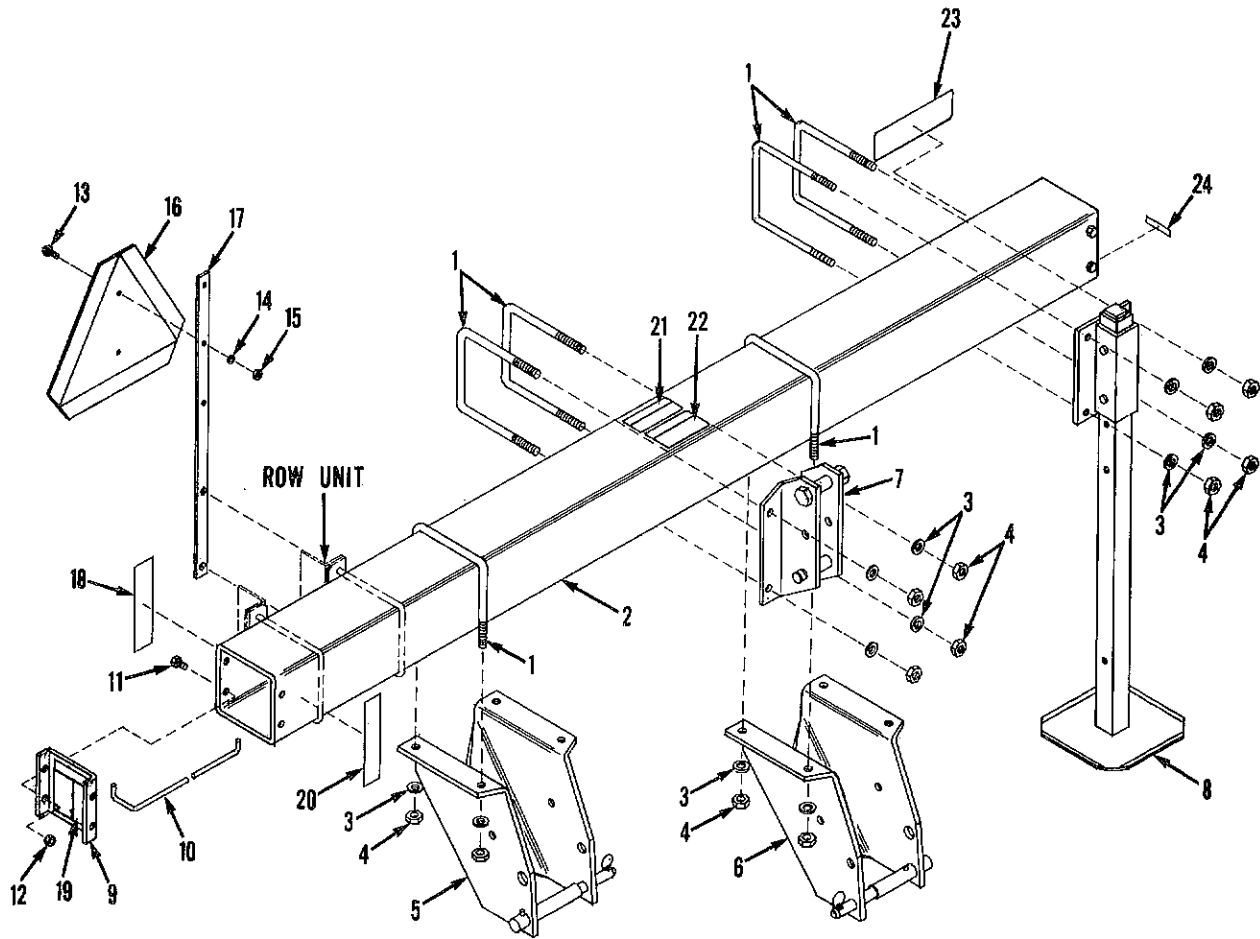
# SECTION 1 RIGID SERIES ROW CULTIVATOR

**FIGURE 1**

**RIGID TOOLBAR  
SERIES 5000**

**4 ROW 36/38 INCH  
6 ROW 30 INCH  
6 ROW 36/38 INCH  
8 ROW 30 INCH  
8 ROW 36/38 INCH**

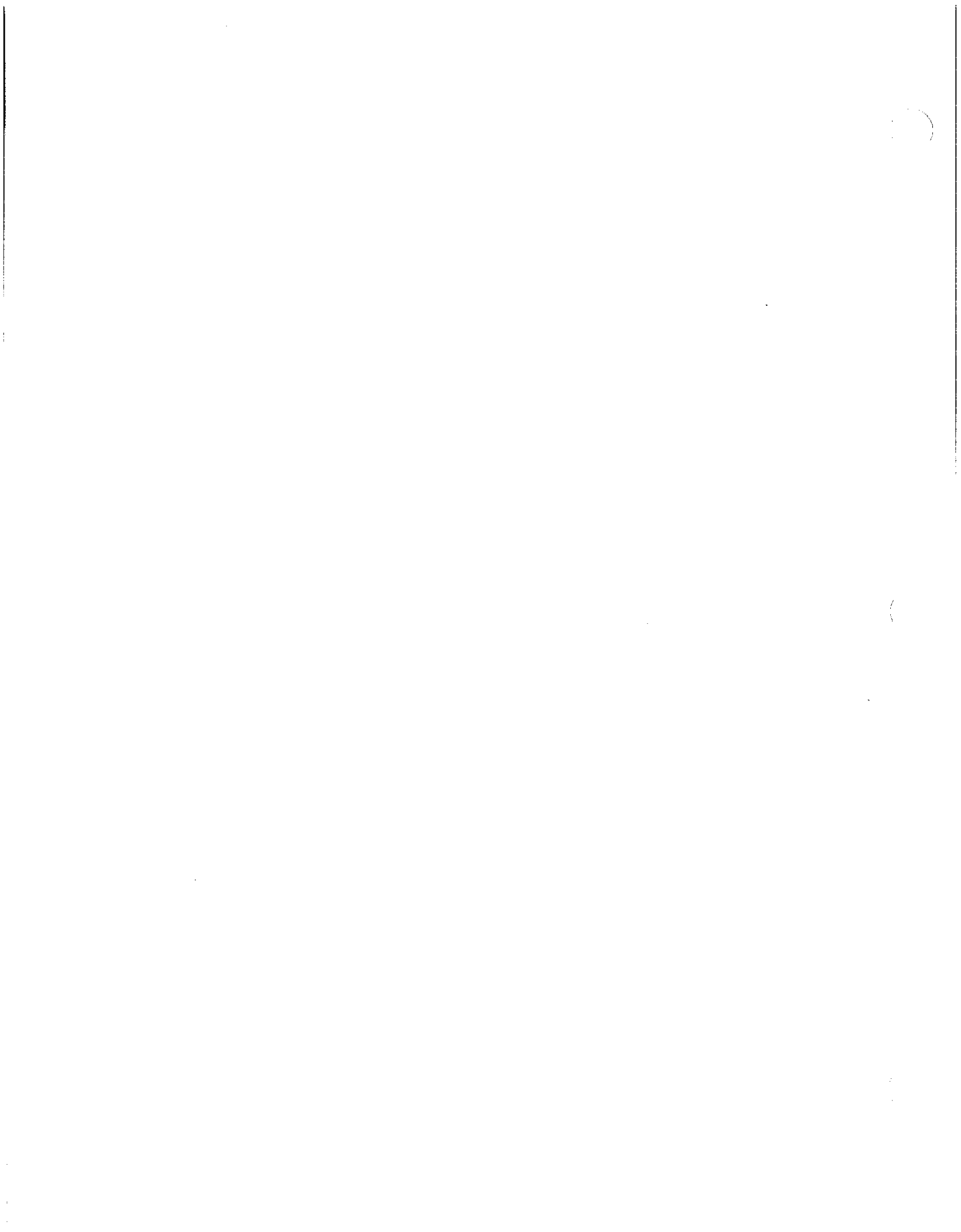
SECTION 1  
RIGID TOOLBAR  
SERIES 5000  
FIGURE 1



DWG. NO. 1644

RIGID TOOLBAR ASSEMBLY

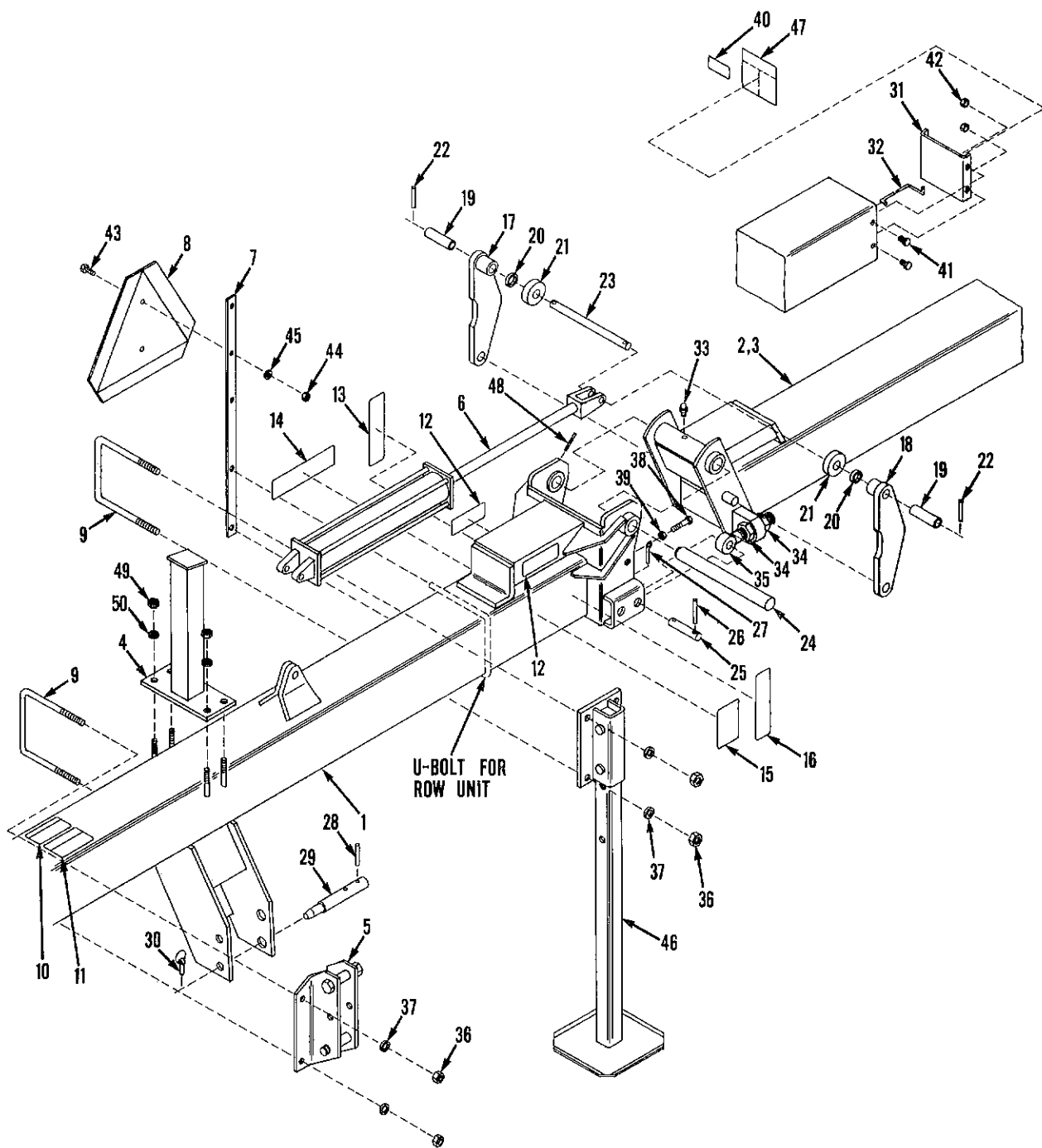
ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	875-001-038	3/4 U-Bolt	10
2	810-002-240	Toolbar (170") (4/36 - 38)	1
	810-002-241	Toolbar (198") (6/30)	1
	810-002-242	Toolbar (246") (6/36 - 38)	1
	810-002-243	Toolbar (258") (8/30)	1
	810-002-244	Toolbar (322") (8/36 - 38)	1
3	952-001-006	3/4 Lockwasher	20
4	951-001-009	3/4 - 10 NC Hex Nut	20
5	810-002-080	RH Lower Hitch Assy (includes item 1, 3 & 4) (see sec. 4 fig. 12)	1
6	810-002-079	LH Lower Hitch Assy (includes items 1, 3 & 4) (see sec. 4 fig. 13)	1
7	810-002-085	Upper Hitch Assy (includes items 1, 3 & 4) (see sec.4 fig. 8)	1
8	810-001-920	Parking Stand Assy (includes item 1, 3 & 4) (see sec. 4 fig. 9)	2
9	810-001-284	End Plate	2
10	810-001-475	Block Removing Rod	1
11	950-002-006	5/16 x 3/4 Whiz Bolt	8
12	951-002-002	5/16 - 18 NC Whiz Nut	8
13	950-001-003	1/4 - 20 NC x 1" Hex Bolt	2
14	952-001-001	1/4 Lockwasher	2
15	951-001-003	1/4 - 20 NC Hex Nut	2
16	850-001-354	SMV Sign	1
17	815-001-004	SMV Mount Strap	1
18	850-001-305	Tape Reflector (red)	2
19	810-001-473	Notice Decal	1
20	850-001-285	Tape Reflector (yellow)	2
21	810-002-426	Caution Decal	1
22	810-001-821	Notice Decal	1
23	860-001-183	Hiniker Decal	2
24	810-002-491	Patent Decal	1



# SECTION 2 FOLDING SERIES ROW CULTIVATOR

<b>FIGURE 1</b>	<b>FOLDING TOOLBAR SERIES 5000</b>	<b>8 ROW 30 INCH</b>
<b>FIGURE 2</b>	<b>FOLDING TOOLBAR SERIES 5000</b>	<b>8 ROW 36/38 INCH 12 ROW 30 INCH</b>
<b>FIGURE 3</b>	<b>FOLDING TOOLBAR SERIES 5000</b>	<b>12 ROW 36/38 INCH 16 ROW 30 INCH</b>
<b>FIGURE 4</b>	<b>TOOLBAR TRUSS FRAME ASSY SERIES 5000</b>	<b>16 ROW 30 INCH</b>

SECTION 2  
FOLDING TOOLBAR  
SERIES 5000  
FIGURE 1



DWG. NO. 1688

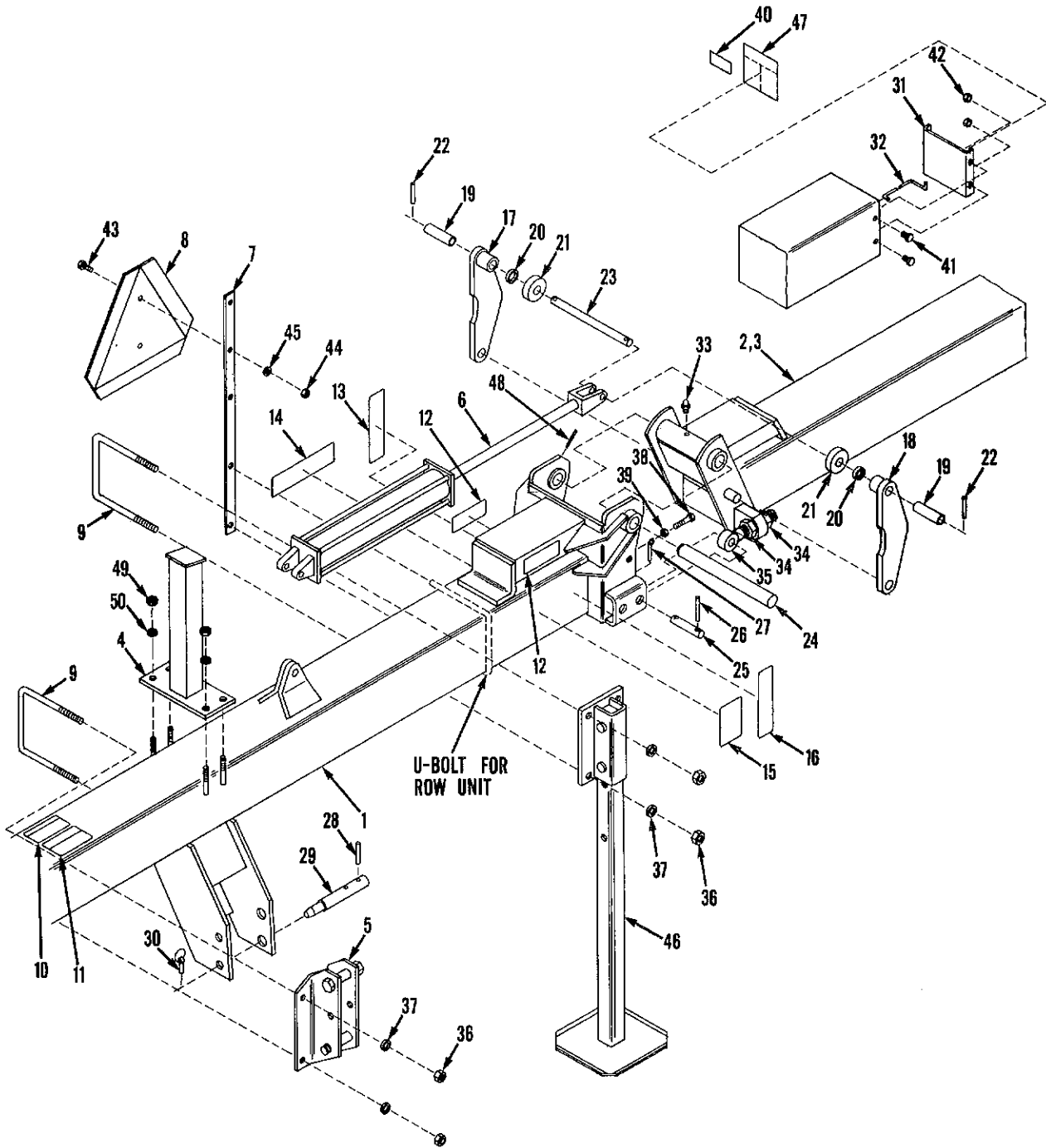


TOOLBAR ASSEMBLY (8/30 FOLD)

2 CMTS

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-337	Center Frame Weld	1
2	810-002-351	LH Wing Weld	1
3	810-002-352	RH Wing Weld	1
4	810-002-164	Stand Weld	2
5	810-002-085	Upper Hitch Assembly (includes items 9, 36 & 37) (see sec. 4 fig. 8)	1
6	81002580	3-1/2 x 16 D.A. Cyl. SAE (see sec. 3C fig. 1)	2
7	815-001-004	SMV Mount Strap	1
8	850-001-354	SMV Sign	1
9	875-001-038	3/4 U-Bolt	6
10	850-002-426	Caution Decal	1
11	810-001-821	Notice Decal	1
12	850-001-980	Warning Decal	4
13	850-001-305	Tape Reflector (red)	2
14	860-001-183	Hiniker Decal	2
15	850-001-306	Warning Decal	2
16	850-001-285	Tape Reflector (yellow)	2
17	810-002-157	LH Link Weld	2
18	810-002-156	RH Link Weld	2
19	810-002-376	Tube	4
20	845-001-150	Spacer	4
21	810-001-255	Roller	4
22	953-006-006	5/16 x 2-1/2 LG Spirol Pin	8
23	810-002-375	Link Pin	2
24	810-002-155	Hinge Pin	2
25	850-001-200	Hinge Pin	2
26	953-003-023	5/16 x 3 Spring Pin	2
27	953-005-002	.178 x 3-9/16 Hair Pin Cotter	2
28	953-003-002	1/2 x 2-1/2 Spring Pin	2
29	810-002-485	Lower Hitch Pin	2
30	230-026-005	Klik Pin	2
31	810-001-284	End Cover	2
32	810-001-511	Block Removing Rod Short (8 row 30 fold)	1
33	955-001-001	Grease Fitting	2
34	951-001-022	1-1/4 Hex Nut	4

SECTION 2  
FOLDING TOOLBAR  
SERIES 5000  
FIGURE 1 Continued



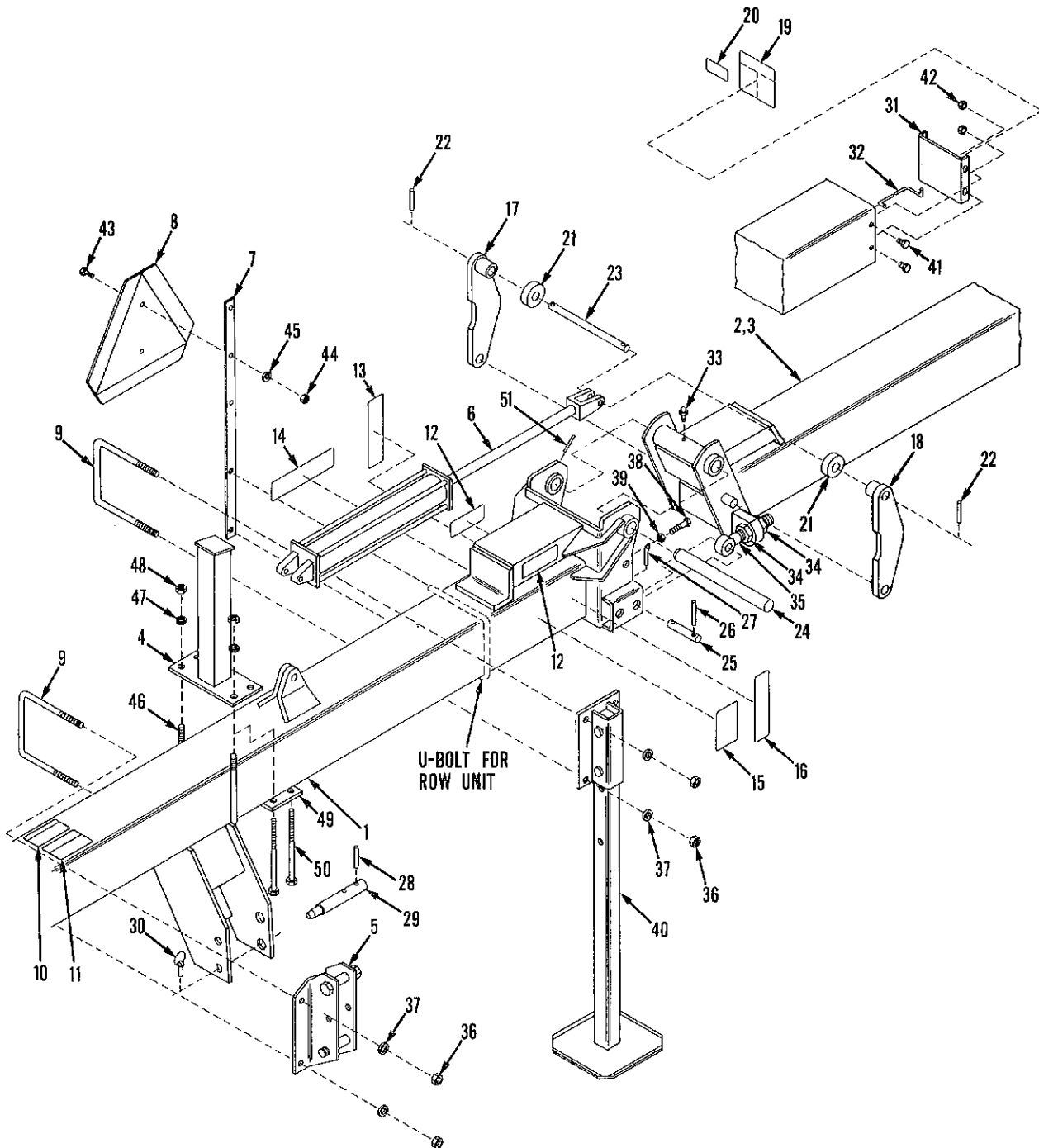
DWG. NO. 1688

TOOLBAR ASSEMBLY (8/30 FOLD) Continued

2 CMS

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
35	850-002-503	1-1/4 Eye Bolt	2
36	951-001-009	3/4 - 10 NC Hex Nut	12
37	952-001-006	3/4 Lockwasher	12
38	950-001-031	3/4 - 10 NC x 3" LG Hex Bolt Gr. 5	4
39	951-005-052	3/4 - 10 NC Jam Nut	4
40	810-002-491	Patent Decal	1
41	950-002-006	5/16 x 3/4 LG Whiz Bolt	8
42	951-002-002	5/16 Whiz Nut	8
43	950-001-003	1/4 - 20 NC x 1" Hex Bolt	2
44	951-001-003	1/4 - 20 NC Hex Nut	2
45	952-001-001	1/4 Lockwasher	2
46	810-001-920	Parking Stand Assy (includes items 9, 36 & 37) (see sec. 4 fig. 9)	2
47	810-001-473	Notice Decal	1
48	953-003-028	1/2 x 2-3/4 Spring Pin	2
49	951-001-008	5/8 - 11 UNC Hex Nut	8
50	952-001-005	5/8 Lock Washer	8
	810-002-388	Decal Bag (includes 10, 11, 12, 13, 14, 15, 16, 40, 47 & Op Manual)	1
	810-002-111	Operator's Manual	1

SECTION 2  
FOLDING TOOLBAR  
SERIES 5000  
FIGURE 2

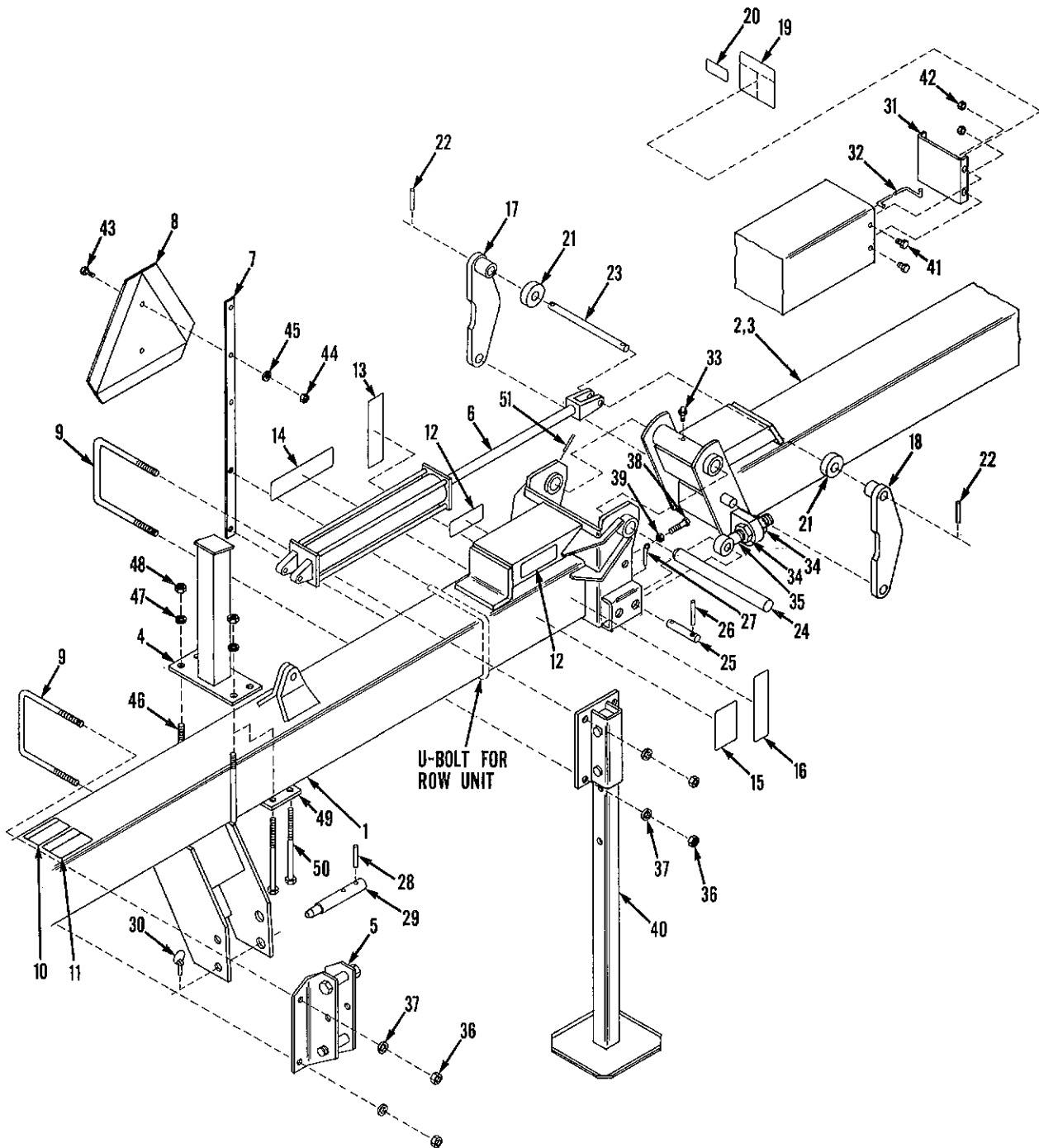


DWG. NO. 1689

TOOLBAR ASSEMBLY (8/36 - 38, 12/30 FOLD)

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-132	Center Frame Weld (12/30)	1
	810-002-338	Center Frame Weld (8/36 - 38)	1
2	810-002-133	LH Wing Weld (12/30)	1
	810-002-349	LH Wing Weld (8/36 - 38)	1
3	810-002-134	RH Wing Weld (12/30)	1
	810-002-350	RH Wing Weld (8/36 - 38)	1
4	810-002-164	Stand Weld	2
5	810-002-085	Upper Hitch Assy (includes items 9, 36, & 37) (see sec. 4 fig. 8)	1
6	81002579	4 x 16 D.A. Cyl. SAE (see sec. 3C fig. 2)	2
7	815-001-004	SMV Mount Strap	1
8	850-001-354	SMV Sign	1
9	875-001-038	3/4 U-Bolt	6
10	850-002-426	Caution Decal	1
11	810-001-821	Notice Decal	1
12	850-001-980	Warning Decal	4
13	850-001-305	Tape Reflector (red)	2
14	860-001-183	Hiniker Decal	2
15	850-001-306	Warning Decal	2
16	850-001-285	Tape Reflector (yellow)	2
17	810-002-157	LH Link Weld	2
18	810-002-156	RH Link Weld	2
19	810-001-473	Notice Decal	1
20	810-002-491	Patent Decal	1
21	810-001-255	Roller	4
22	953-006-006	5/16 x 2-1/2 LG Spirol Pin	8
23	810-002-138	Link Pin	2
24	810-002-155	Hinge Pin	2
25	850-001-200	Hinge Pin	2
26	953-003-023	5/16 x 3 Spring Pin	2
27	953-005-002	.178 x 3-9/16 Hair Pin Cotter	2
28	953-003-002	1/2 x 2-1/2 Spring Pin	2
29	810-002-485	Lower Hitch Pin	2
30	230-026-005	Klik Pin	2
31	810-001-284	End Cover	2

SECTION 2  
FOLDING TOOLBAR  
SERIES 5000  
FIGURE 2 Continued



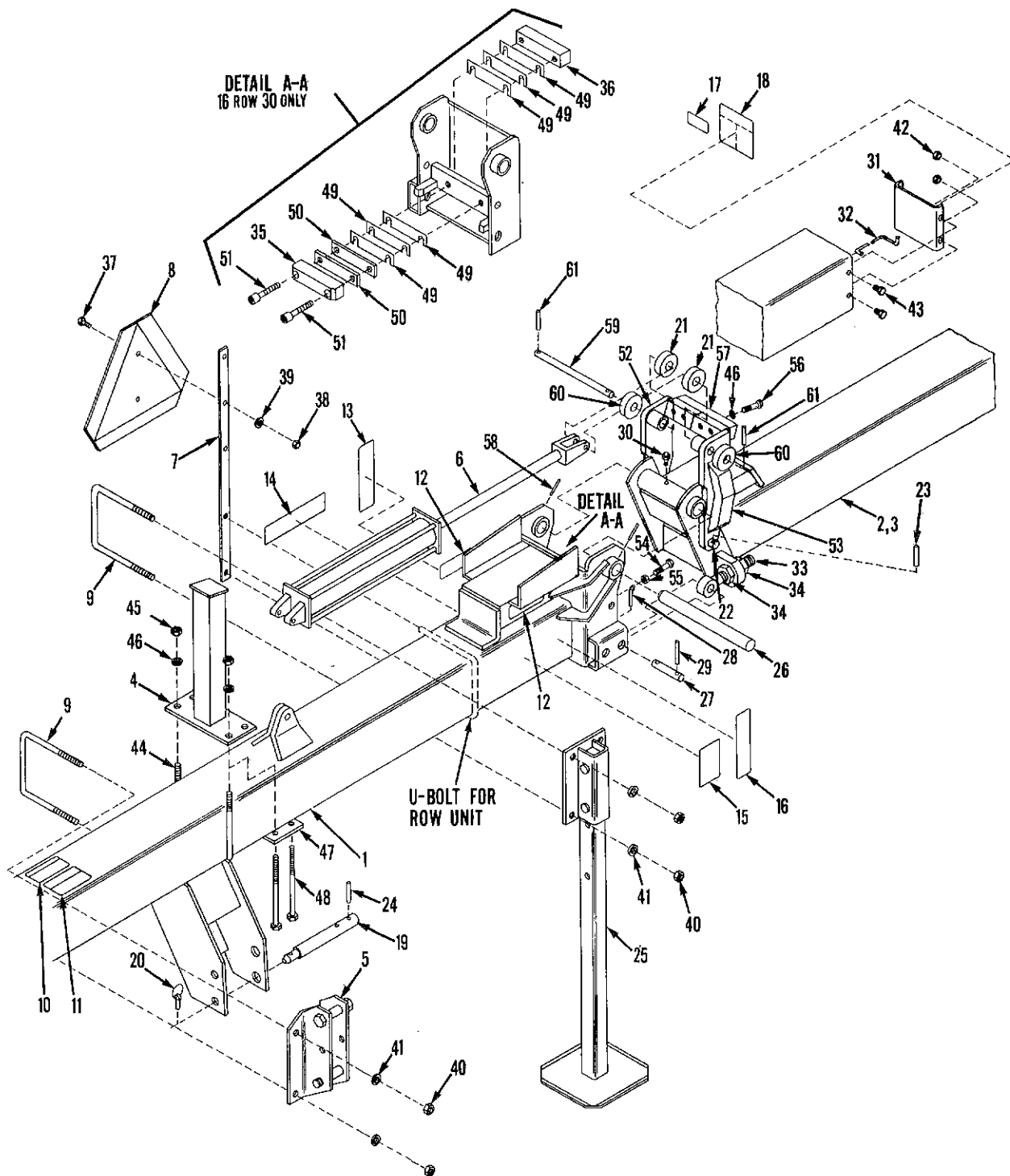
DWG. NO. 1689

TOOLBAR ASSEMBLY (8/36 - 38, 12/30 FOLD) Continued

2 CMS

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
32	810-001-475	Block Removing Rod	1
33	955-001-001	Grease Fitting	2
34	951-001-022	1-1/4 Hex Nut	4
35	850-002-503	1-1/4 Eye Bolt	2
36	951-001-009	3/4 - 10 NC Hex Nut	12
37	952-001-006	3/4 Lockwasher	12
38	950-001-031	3/4 - 10 NC x 3 LG Hex Bolt Gr. 5	4
39	951-005-052	3/4 - 10 NC Jam Nut	4
40	810-001-920	Parking Stand Assy (includes items 9, 36, & 37) (see sec. 4 fig. 9)	2
41	950-002-006	5/16 x 3/4 LG Whiz Bolt	8
42	951-002-002	5/16 Whiz Nut	8
43	950-001-003	1/4 - 20 NC x 1" Hex Bolt	2
44	951-001-003	1/4 Hex Nut	2
45	952-001-001	1/4 Lockwasher	2
46	805-001-332	5/8 U-Bolt (12 row 30) only	4
47	952-001-005	5/8 Lockwasher	8
48	951-001-008	5/8 Hex Nut	8
49	810-001-411	Base Plate (8 row 36-38)	4
50	950-001-227	5/8 - 11 NC x 9" LG H.H.C.S. GR 5 (8 row 36 - 38)	8
51	953-003-028	1/2 X 2-3/4 Spring Pin	2
	810-002-388	Decal Bag (includes items 10, 11, 12, 13, 14, 15, 16, 19, 20 and Opr. Manual)	
	810-002-111	Operator's Manual	1

SECTION 2  
FOLDING TOOLBAR  
SERIES 5000  
FIGURE 3



DWG. NO. 1690

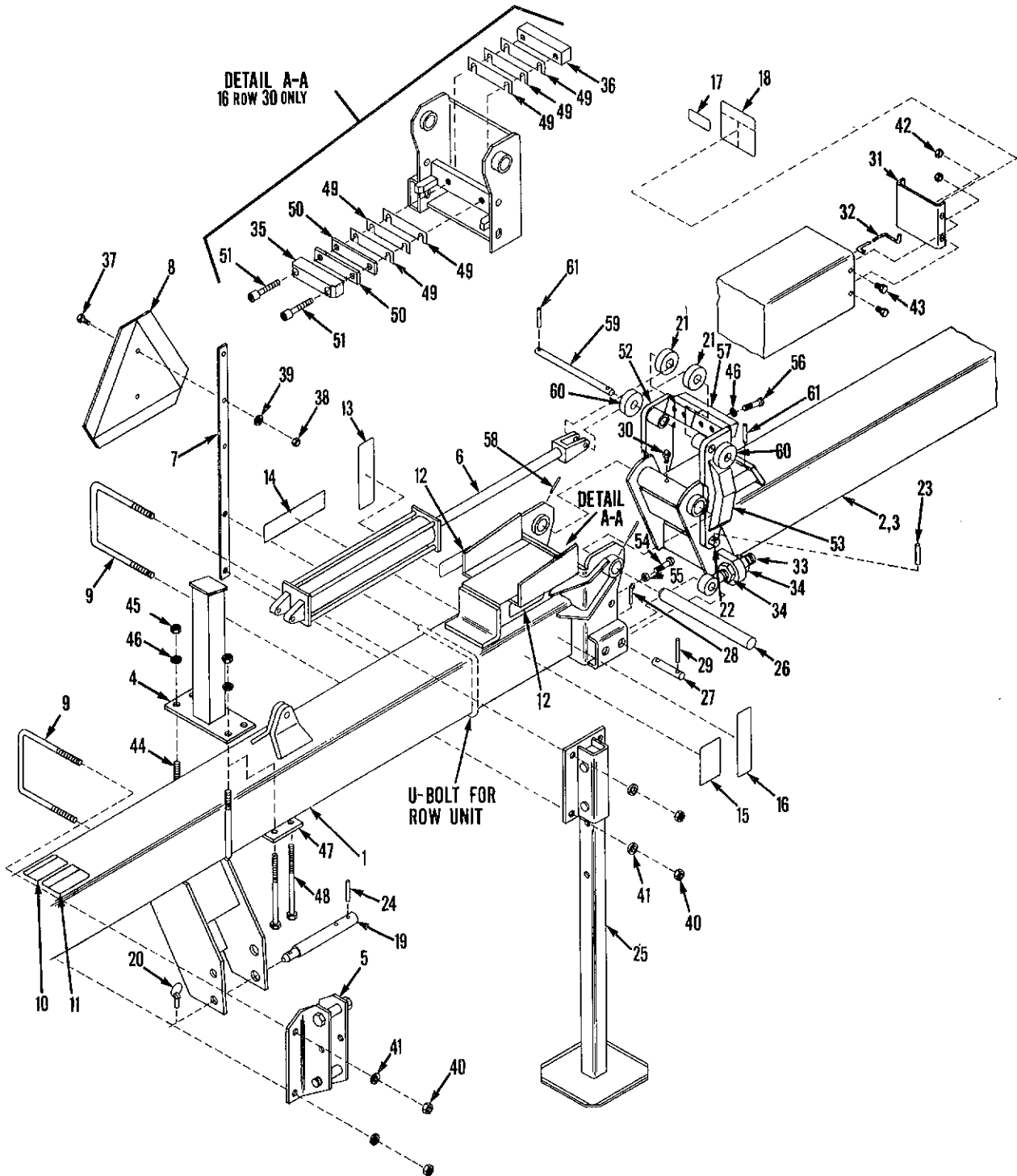


TOOLBAR ASSEMBLY (12/36 - 38, 16/30 FOLD)

SECTION  
2

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-339	Center Frame Weld (12/36 - 38)	1
	810-002-340	Center Frame Weld (16/30)	1
2	810-002-353	LH Wing Weld (12/36 - 38)	1
	810-002-355	LH Wing Weld (16/30)	1
3	810-002-354	RH Wing Weld (12/36 - 38)	1
	810-002-356	RH Wing Weld (16/30)	1
4	810-002-164	Stand Weld	2
5	810-002-085	Upper Hitch Assy (include items 9, 40, & 41) (see sec. 4 fig. 8)	1
6	81002581	5 x 16 D.A. Cyl. SAE (see sec. 3C fig. 3)	2
7	815-001-004	SMV Mount Strap	1
8	850-001-354	SMV Sign	1
9	875-001-038	3/4 U-Bolt	6
10	850-002-426	Caution Decal	1
11	810-001-821	Notice Decal	1
12	850-001-980	Warning Decal	4
13	850-001-305	Tape Reflector (red)	2
14	860-001-183	Hiniker Decal	2
15	850-001-306	Warning Decal	2
16	850-001-285	Tape Reflector (yellow)	2
17	810-002-491	Patent Decal	1
18	810-001-473	Notice Decal	1
19	810-002-485	Lower Hitch Pin	2
20	230-026-005	Klik Pin	2
21	810-001-255	Roller	4
22	810-002-513	Link Pin (16/30)	2
23	953-006-006	5/16 x 2-1/2 LG Spirol Pin	4
24	953-003-002	1/2 x 2-1/2 LG Spring Pin	2
25	810-001-920	Parking Stand Assy (includes items 9, 40, & 41) (see sec. 4 fig. 9)	2
26	810-002-155	Hinge Pin	2
27	850-001-200	Hinge Pin	2
28	953-005-002	.178 x 3-9/16 Hair Pin Cotter	2
29	953-003-023	5/16 x 3 Spring Pin	2
30	955-001-001	Grease Fitting	2
31	810-001-284	End Cover	2

SECTION 2  
FOLDING TOOLBAR  
SERIES 5000  
FIGURE 3 Continued



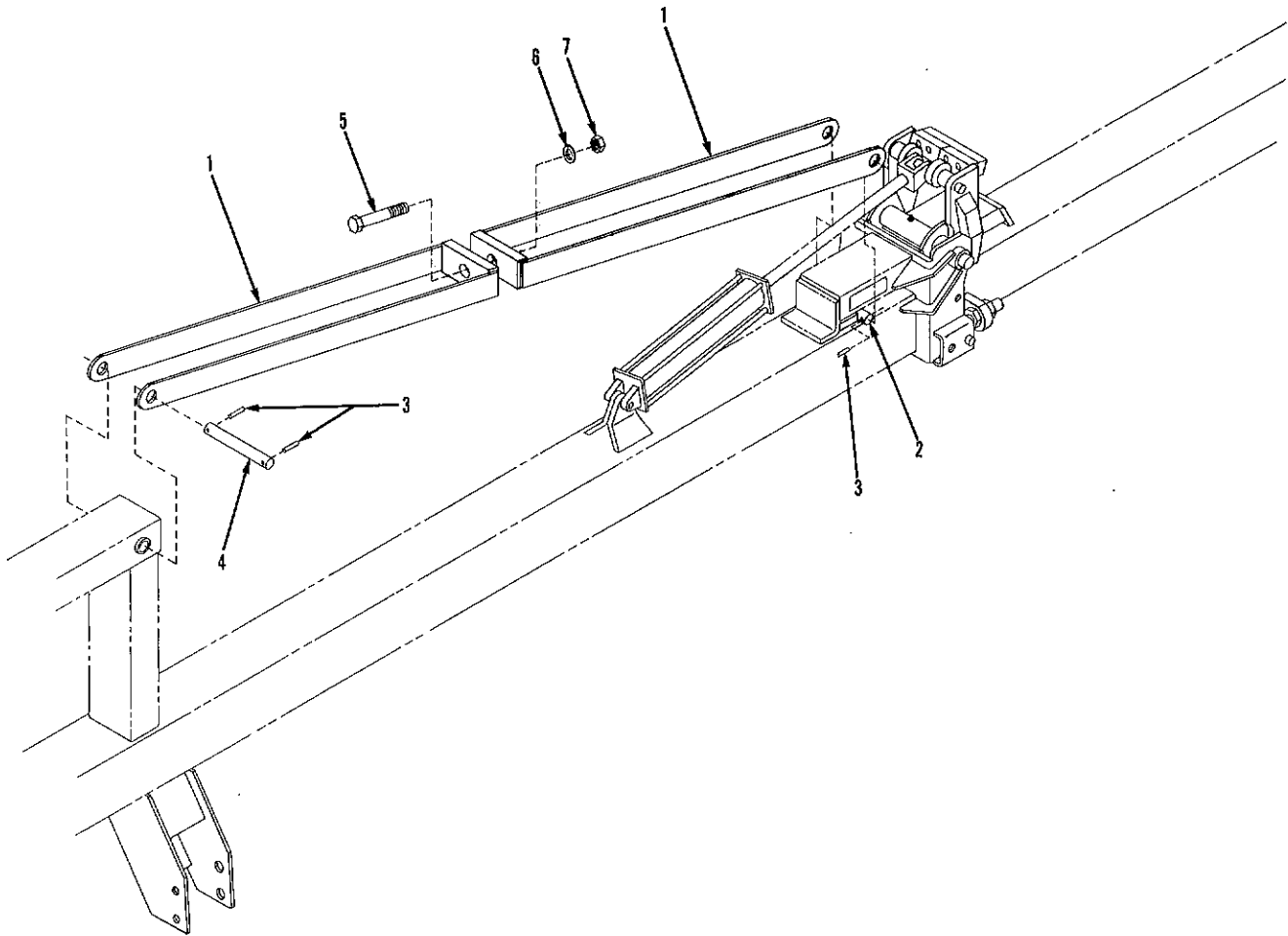
DWG. NO. 1690

TOOLBAR ASSEMBLY (12/36 - 38, 16/30 FOLD) Continued

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
32	810-001-475	Block Removing Rod	1
33	850-002-503	1-1/4 Eye Bolt	2
34	951-001-022	1-1/4 Hex Nut	4
35	810-002-478	Block (16 Row 30)	2
36	810-002-475	Block (16 Row 30)	2
37	950-001-003	1/4 - 20 NC x 1" Hex Bolt	2
38	951-001-003	1/4 - 20 NC Hex Nut	2
39	952-001-001	1/4 Lockwasher	2
40	951-001-009	3/4 - 10 NC Hex Nut	12
41	952-001-006	3/4 Lockwasher	12
42	951-002-002	5/16 Whiz Nut	8
43	950-002-006	5/16 x 3/4 LG Whiz Bolt	8
44	805-001-332	5/8 U-Bolt (16 row 30 only)	4
45	951-001-008	5/8 Hex Nut	8
46	952-001-005	5/8 Lockwasher	16
47	810-001-411	Base Plate (12 row 36-38)	2
48	950-001-227	5/8 - 11 NC x 9" LG HHCS GR. 5 (12 row 36-38)	8
49	810-002-477	Shim (16 row 30)	12
50	810-002-476	Plate (16 row 30)	4
51	950-011-028	5/8 - 11 UNC x 3 1/2 Socket HD Cap Scr. (16 row 30)	4
52	810-002-517	L.H. Link Weld	2
53	810-002-516	R.H. Link Weld	2
54	950-001-031	3/4 - 10 UNC x 3 HHCS GR. 5 (12 row 36-38)	4
55	951-005-052	3/4 - 10 UNC Jam Nut (12 row 36-38)	4
56	950-001-132	5/8 - 11 UNC x 1 3/4 HHCS GR. 5	8
57	810-002-508	Strap	2
58	953-003-028	1/2 x 2-3/4 Spring Pin	4
59	81002603	Link Pin	2
60	81003138	Roller	3
61	953-003-017	5/16 x 2 Spring Pin	3
	810-002-388	Decal Bag (includes items 10, 11, 12, 13, 14, 15, 16, 17, 18, 57 & Opr. Manual)	1
	810-002-111	Operator's Manual	1

2 CMS

SECTION 2  
TRUSS FRAME  
FIGURE 4  
ASSEMBLY 16/30



DWG. NO. 2003

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-515	Strap Weld	4
2	810-002-509	Pin Weld	2
3	953-003-002	1/2 x 2-1/2 Spring Pin	8
4	810-002-511	Pin	2
5	950-001-208	1-1/4 - 7 UNC x 6 HHCS	2
6	033-22020	1-1/4 Lockwasher	2
7	951-001-022	1-1/4 - 7 UNC Hex Nut	2

# HYDRAULICS SECTION 3

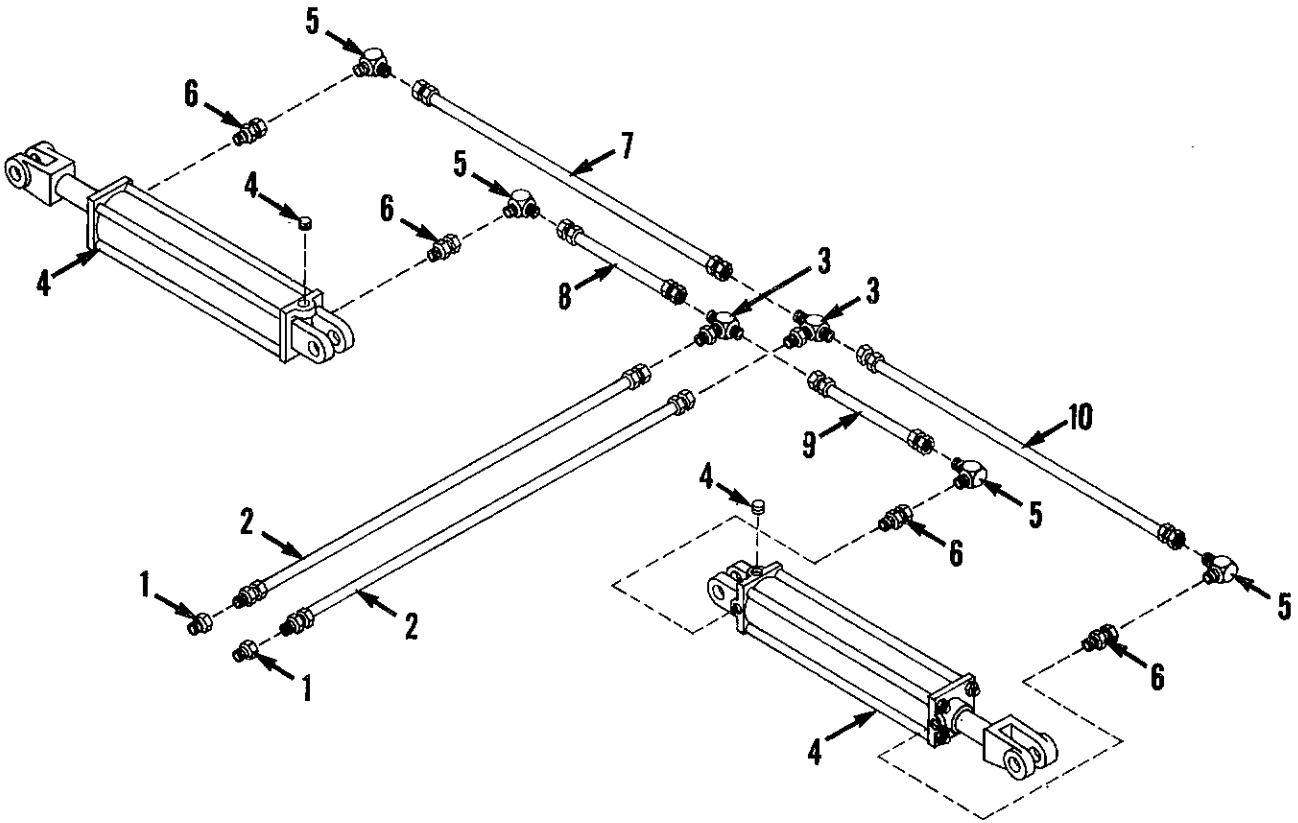
## SECTION 3A RIGID AND FOLDING SERIES

FIGURE 1	170 DEGREE WING LIFT SERIES 5000	ALL FOLDING MODELS
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## SECTION 3B CYLINDERS

FIGURE 1	PRINCE 3.5 INCH DIA. X 16 INCH STROKE
FIGURE 2	PRINCE 4.00 INCH DIA. X 16 INCH STROKE
FIGURE 3	PRINCE 5.00 INCH DIA. X 16 INCH STROKE
FIGURE 4	COMMAND 3.00 INCH DIA. X 8 INCH STROKE

SECTION 3A  
170 DEGREE WING LIFT  
ALL FOLDING MODELS  
SERIES 5000  
FIGURE 1



DWG. NO. 189

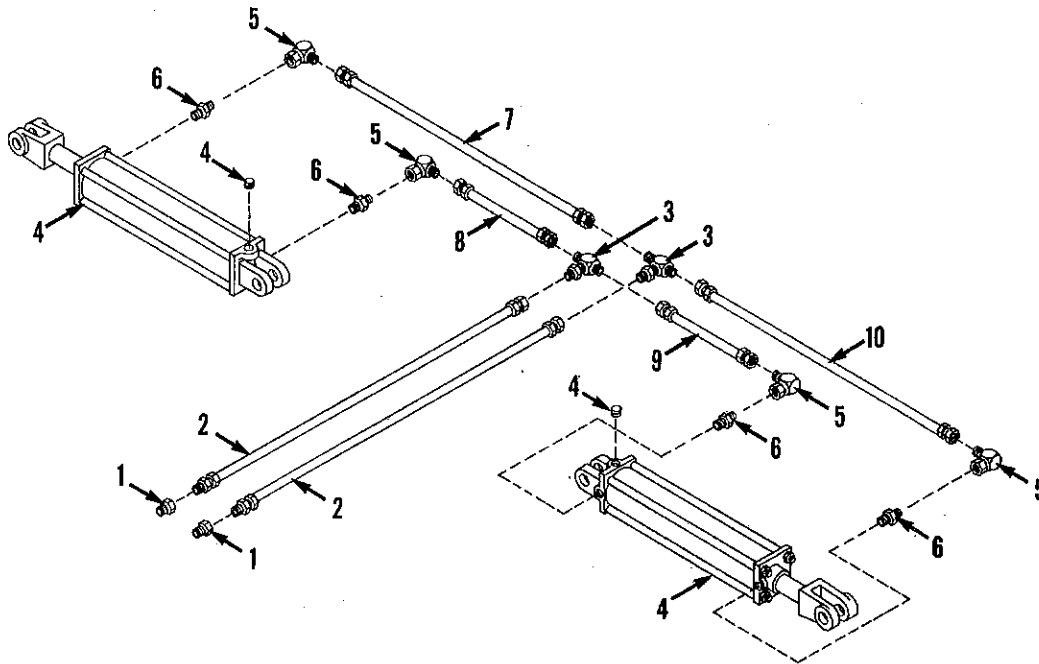
SEC  
3A

170 DEGREE WING LIFT

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D	
1	956-004-002	Reducer Bushing 1/2 - 14 Male NPT To 3/8 Female NPT	2	
2	957-002-014	3/8 Inch Hose Assembly (48 Inches)	2	
3	956-007-003	Bulkhead Tee, 9/16 - 18 Male 37 Degree JIC To 9/16 - 18 Male 37 Degree JIC	2	
4	861-001-220	4 x 16 Cylinder 8 Row 36, 38, 12 Row 30 (See Sec. 3B Fig. 2)	2	
	850-001-078	3-1/2 x 16 Cylinder 8 Row 30 (See Sec. 3B Fig. 1)	2	
	840-001-008	5 x 16 Cylinder 12 Row 36, 38, 16 Row 30 (See Sec. 3B Fig. 3)	2	
5	956-005-003	90 Degree Elbow, 1/2 - 14 Male NPT To 9/16 - 18 Male 37 Degree JIC	4	
6	956-008-002	Restrictor Fitting, 1/2 - 14 Male NPT To Swivel 1/2 - 14 Female NPT	4	
7	957-001-009	3/8 Inch Hose Assembly 50 Inch 8 Row 30	1	
	957-001-017	3/8 Inch Hose Assembly 72 Inch 8 Row 36, 38	1	
	957-001-018	3/8 Inch Hose Assembly 79 Inch 12 Row 30	1	
	957-001-021	3/8 Inch Hose Assembly 102 Inch 12 Row 36, 38	1	
	957-001-056	3/8 Inch Hose Assembly 108 Inch 16 Row 30	1	
	8	957-001-004	3/8 Inch Hose Assembly 29 Inch 8 Row 30	1
		957-001-009	3/8 Inch Hose Assembly 50 Inch 8 Row 36, 38	1
957-001-014		3/8 Inch Hose Assembly 60 Inch 12 Row 30	1	
957-001-057		3/8 Inch Hose Assembly 86 Inch 12 Row 36, 38	1	
957-001-019		3/8 Inch Hose Assembly 92 Inch 16 Row 30	1	
9	957-001-006	3/8 Inch Hose Assembly 41 Inch 8 Row 30	1	
	957-001-015	3/8 Inch Hose Assembly 68 Inch 8 Row 36, 38	1	
	957-001-018	3/8 Inch Hose Assembly 79 Inch 12 Row 30	1	
	957-001-021	3/8 Inch Hose Assembly 102 Inch 12 Row 36, 38	1	
10	957-001-056	3/8 Inch Hose Assembly 108 Inch 16 Row 30	1	
	957-001-014	3/8 Inch Hose Assembly 60 Inch 8 Row 30	1	
	957-001-057	3/8 Inch Hose Assembly 86 Inch 8 Row 36, 38	1	
	957-001-020	3/8 Inch Hose Assembly 96 Inch 12 Row 30	1	
	957-001-054	3/8 Inch Hose Assembly 120 Inch 12 Row 36, 38	1	
	957-001-023	3/8 Inch Hose Assembly 126 Inch 16 Row 30	1	

SEC  
3A

SECTION 3A  
 ASSEMBLY  
 HYDRAULIC PLUMBING  
 DIAGRAM FOLDING TOOLBAR  
 ALL FOLDING MODELS  
 FIGURE 1B - 1991 & LATER



DWG. NO. 2387

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	956-004-002	Reducer Bushing 1/2 - 14 Male NPT to 3/8 Female NPT	2
2	957-002-014	3/8 Inch Hose Assembly (48 inches)	2
3	956-007-003	Bulkhead Tee, 9/16 - 18 Male 37 Degree JIC To 9/16 - 18 Male 37 Degree JIC - To 9/16 - 18 Male 37 Degree JIC	2
4	81002579	4 x 16 Cylinder 3/4 - 16 O-Ring Ports, 8 Row 36/38, 12 Row 30 (see sec. 3C fig. 2) 1991 & Later	2
	861-001-220	4 x 16 Cylinder 1/2 NPT Ports, 8 Row 36/38, 12 Row 30 (see sec. 3B fig. 2) 1990 & Earlier	2
	81002580	3-1/2 x 16 Cylinder 3/4 - 16 O-Ring Ports, 8 Row 30 (see sec. 3C fig. 1) 1991 & Later	2
	850-001-078	3-1/2 x 16 Cylinder 1/2 NPT Ports, 8 Row 30 (see sec. 3B fig. 1) 1990 & Earlier	2
	81002581	5 x 16 Cylinder 7/8 - 14 O-Ring Ports, 12 row 36/38, 16 Row 30 (see sect. 3C fig. 3) 1991 & Later	2
	840-001-008	5 x 16 Cylinder 12 Row 36, 38, 16 Row 30 (see sec. 3b fig. 3)	2

SECTION  
 3A



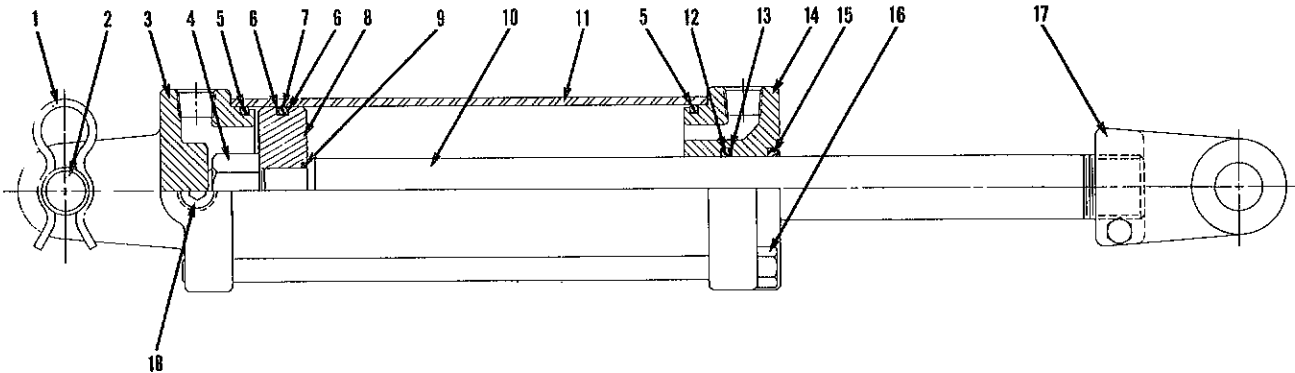
**DIAGRAM FOLDING TOOLBAR  
FIGURE 1B 1991 & LATER**

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
5	956-005-002	90° Elbow, 9/16 - 18 Female JIC to 9/16 - 18 Male 37° JIC, 1991 & Later	4
	956-005-003	90° Elbow, 1/2 - 14 Male NPT to 9/16 - 18 Male 37° JIC 1990 & Earlier	4
6	956-008-024	Restrictor Fitting, 3/4 O-Ring to 9/16 - 18 Male 37° JIC 8 Row 36/38, 12 Row 30, 8 Row 30, 1991 & Later	4
	956-008-025	Restrictor fitting 7/8 O-Ring to 9/16 - 18 Male 37° JIC 12 Row 36/38, 16 Row 30, 1991 & Later	4
	956-008-002	Restrictor Fitting 1/2 - 14 Male NPT to Swivel 1/2 - 14 Female NPT 1990 & Earlier	4
7	957-001-009	3/8 Inch Hose Assembly 50 Inch 8 Row 30	1
	957-001-017	3/8 Inch Hose Assembly 72 Inch 8 Row 36/38	1
	957-001-018	3/8 Inch Hose Assembly 79 Inch 12 Row 30	1
	957-001-021	3/8 Inch Hose Assembly 102 Inch 12 Row 36/38	1
	957-001-056	3/8 Inch Hose Assembly 108 Inch 16 Row 30	1
8	957-001-004	3/8 Inch Hose Assembly 29 Inch 8 Row 30	1
	957-001-009	3/8 Inch Hose Assembly 50 Inch 8 Row 36/38	1
	957-001-014	3/8 Inch Hose Assembly 60 Inch 12 Row 30	1
	957-001-057	3/8 Inch Hose Assembly 86 Inch 12 Row 36/38	1
	957-001-019	3/8 Inch Hose Assembly 92 Inch 16 Row 30	1
9	957-001-006	3/8 Inch Hose Assembly 41 Inch 8 Row 30	1
	957-001-015	3/8 Inch Hose Assembly 68 Inch 8 Row 36/38	1
	957-001-018	3/8 Inch Hose Assembly 79 Inch 12 Row 30	1
	957-001-021	3/8 Inch Hose Assembly 102 Inch 12 Row 36/38	1
	957-001-056	3/8 Inch Hose Assembly 108 Inch 16 Row 30	1
10	957-001-014	3/8 Inch Hose Assembly 60 Inch 8 Row 30	1
	957-001-057	3/8 Inch Hose Assembly 86 Inch 8 Row 36/38	1
	957-001-020	3/8 Inch Hose Assembly 96 Inch 12 Row 30	1
	957-001-054	3/8 Inch Hose Assembly 120 Inch 12 Row 36/38	1
	957-001-023	3/8 Inch Hose Assembly 126 Inch 16 Row 30	1

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3A



**SECTION 3B**  
**PRINCE 3.5 INCH DIAMETER X 16 INCH STROKE CYLINDER**  
**FIGURE 1**



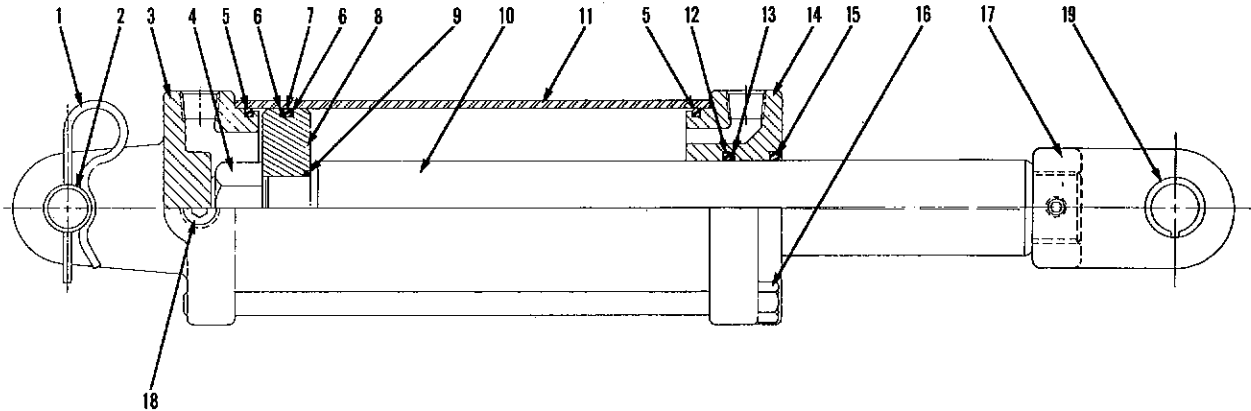
DWG. NO. 466

CYLINDER IDENTIFICATION HINIKER P/N 850-001-078  
 PRINCE P/N 9316

**SEC  
3B**

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	850-001-805	Hair Pin Clip	2
2	850-001-804	Clevis Pin	1
3	850-001-751	Cylinder Butt	1
4	951-005-028	3/4 - 16 Fine THD Uni-Torque Locknut	1
5	850-001-797	O-Ring	2
6	850-001-799	Back Up Washer	2
7	850-001-798	O-Ring	1
8	850-001-795	Piston	1
9	850-001-800	O-Ring	1
10	850-001-792	Piston Rod	1
11	850-001-794	Tube	1
12	850-001-801	O-Ring	1
13	850-001-802	Back Up Washer	1
14	850-001-768	Cylinder Gland	1
15	850-001-803	Wiper Ring	1
16	850-001-796	Tie Rod	4
17	850-001-753	Clevis	1
18	850-001-793	Pipe Plug	1
	850-001-755	Seal Repair Kit (Includes Items 5, 6, 7, 9, 12, 13 & 15)	1
	850-001-078	Complete 3.5" Dia. + 16" Stroke Cylinder	1

**SECTION 3B**  
**PRINCE 4.00 INCH DIAMETER X 16 INCH STROKE CYLINDER**  
**FIGURE 2**



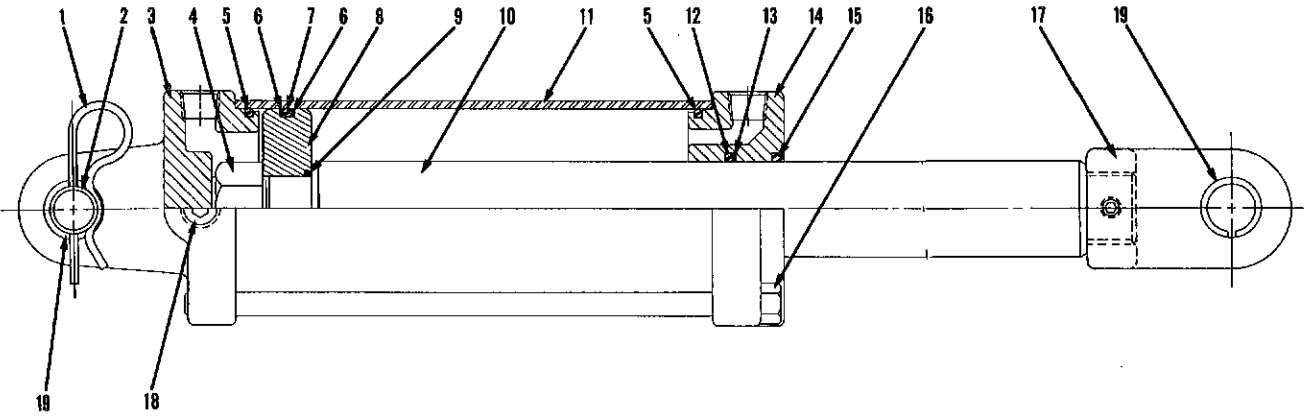
DWG. NO. 948

CYLINDER IDENTIFICATION HINIKER P/N 861-001-220  
 PRINCE PART NO. 9416

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	840-001-206	Hair Pin Clip	2
2	850-001-818	Clevis Pin	1
3	850-001-752	Cylinder Butt	1
4	951-005-034	1-1/4 x 12 UNC Uni-Torque Lock Nut	1
5	850-001-811	O-Ring	2
6	850-001-813	Back Up Washer	2
7	850-001-812	O-Ring	1
8	850-001-809	Piston	1
9	850-001-814	O-Ring	1
10	861-001-222	Piston Rod	1
11	861-001-223	Tube	1
12	850-001-815	O-Ring	1
13	850-001-816	Back Up Washer	1
14	850-001-808	Cylinder Gland	1
15	850-001-817	Wiper Ring	1
16	861-001-224	Tie Rod	4
17	861-001-483	Clevis (100000159)	1
18	850-001-793	Pipe Plug	1
19	850-001-756	Seal Repair Kit (Includes Items 5, 6, 7, 9, 12, 13 & 15)	1
	861-001-220	Complete 4.00" Dia. x 16" Stroke Cylinder	1
	840-001-356	Pin Hole Bushing	2

3B  
 CTS

**SECTION 3B**  
**PRINCE 5.00 INCH DIAMETER X 16 INCH STROKE CYLINDER**  
**FIGURE 3**



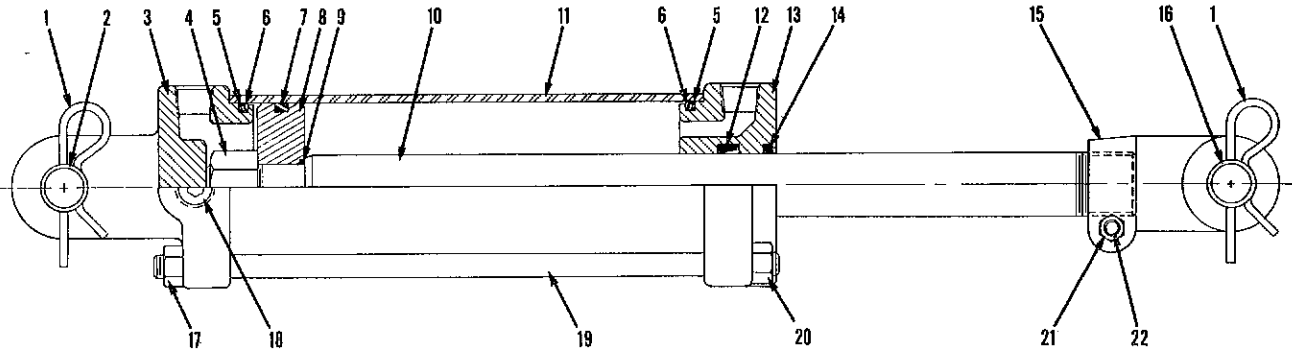
DWG. NO. 949

CYLINDER IDENTIFICATION HINIKER P/N 840-001-008  
 PRINCE P/N 9516

**SECTION 3B**

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	840-001-206	Hair Pin Clip	2
2	840-001-205	Clevis Pin	1
3	840-001-192	Cylinder Butt	1
4	951-005-034	1-1/4 - 12 UNF Uni-Torque Locknut	1
5	840-001-198	O-Ring	2
6	840-001-200	Back Up Washer	2
7	840-001-199	O-Ring	1
8	840-001-194	Piston	1
9	840-001-201	O-Ring	1
10	840-001-189	Piston Rod	1
11	840-001-191	Tube	1
12	840-001-202	O-Ring	1
13	840-001-203	Back Up Washer	1
14	840-001-193	Cylinder Gland	1
15	840-001-204	Wiper Ring	1
16	840-001-197	Tie Rod	4
17	840-001-196	Clevis	1
18	840-001-190	Pipe Plug	1
19	840-001-207	Seal Repair Kit (Includes Items 5, 6, 7, 9, 12, 13 & 15)	1
	840-001-008	Complete 5.00" Dia. x 16 Stroke Cylinder	1
	840-001-356	Pin Hole Bushing	4

**SECTION 3B**  
**COMMAND HYDRAULICS 3.00 INCH DIAMETER X 8 INCH STROKE CYLINDER**  
**FIGURE 4**



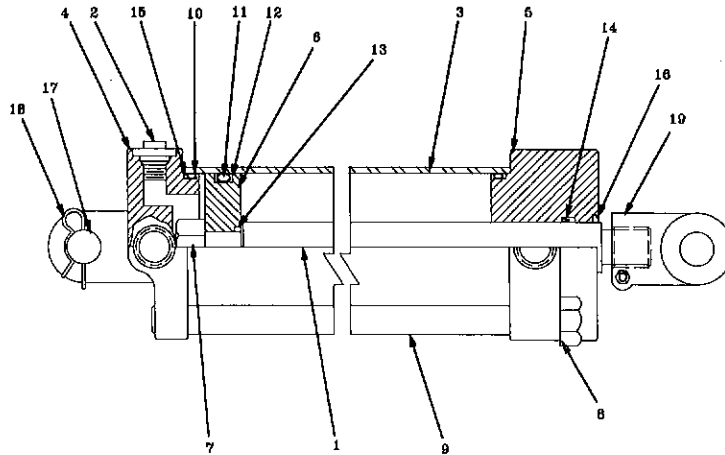
CYLINDER IDENTIFICATION HINIKER P/N 805-001-974  
 COMMAND P/N CHI 2500 SERIES 229

DWG. NO. 229

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	805-002-145	Hair Pin Clip	4
2	805-002-147	Butt End Pin	1
3	805-002-137	Butt End Clevis	1
4	805-002-144	Piston Nut	1
5	805-002-154	Back Up Washer	2
6	805-002-155	O-Ring	2
7	805-002-156	Piston Seal	1
8	805-002-136	Piston	1
9	805-002-157	O-Ring	1
10	805-002-150	Rod	1
11	805-002-149	Tube	1
12	805-002-153	U-Cup Seal	1
13	805-002-138	Rod End Casting	1
14	805-002-152	Rod Wiper	1
15	805-002-139	Rod Clevis	1
16	805-002-146	Clevis Pin	4
17	805-002-143	Tie Rod Locknut	1
18	805-002-148	Port Plug	4
19	805-002-151	Tie Rod	4
20	805-002-142	Tie Rod Nut	1
21	805-002-141	Hex Nut	1
22	805-002-140	Bolt	1
	805-002-057	Seal Repair Kit (Includes Items 5, 6, 7, 9, 12 & 14)	1
	805-001-974	Complete 3.00" Dia. x 8" Stroke Cylinder	1

**SECTION 3B**

SECTION 3C  
 PRINCE 3.5 INCH DIAMETER X 16 INCH STROKE CYLINDER  
 3/4 O-RING PORTS  
 91 & LATER  
 FIGURE 1



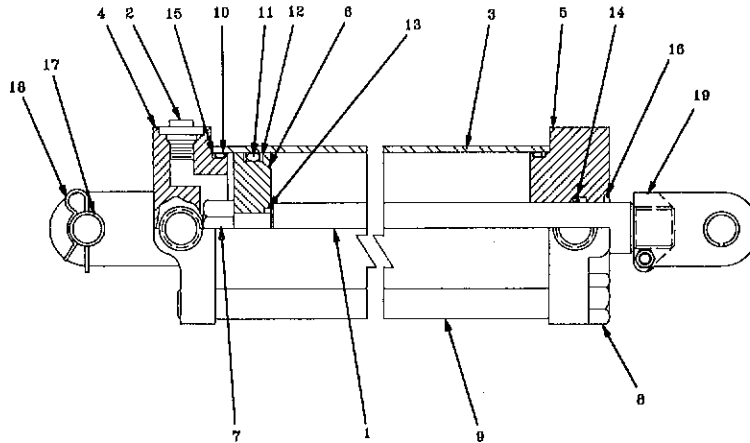
CYLINDER IDENTIFICATION HINIKER P/N 81002580

DWG. NO. 2301

SECTION  
3C

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	81002605	Piston Rod	1
2	855-001-404	#8 SAE Plug	1
3	850-001-794	Tube	1
4	855-001-413	Butt	1
5	856-001-252	Gland	1
6	81002604	Piston	1
7	855-001-387	Lock Nut, 7/8 - 14 UNC UNI-Torque	1
8	856-001-254	Hex Nut	4
9	850-001-796	Tie Rod	4
10	856-001-257	O-Ring	2
11	850-001-798	O-Ring	1
12	856-001-256	Backup Washer	2
13	850-001-800	O-Ring	1
14	855-001-395	U-Cup	1
15	856-001-255	Backup Washer	2
16	855-001-396	Wiper	1
17	850-001-804	Clevis Pin	1
18	840-001-206	Hair Pin Clip	2
19	856-001-239	Clevis Assembly	1
	856-001-258	Seal Kit Includes Items 10, 11, 12, 13, 14, 15 & 16	
	81002580	Complete 3-1/2 x 16 Cylinder Assembly	

SECTION 3C  
 PRINCE 4.00 INCH DIAMETER X 16 INCH STROKE CYLINDER  
 3/4 O-RING PORTS  
 91 & LATER  
 FIGURE 2



CYLINDER IDENTIFICATION HINIKER P/N 81002579

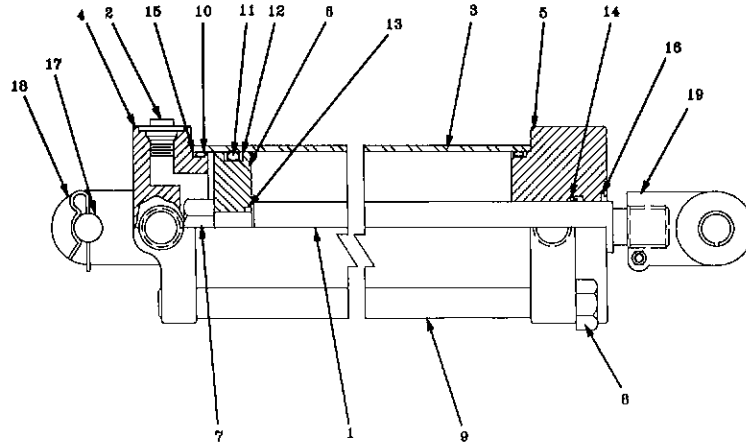
DWG. NO. 2298

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	861-001-222	Piston Rod	1
2	855-001-404	#8 SAE Plug	1
3	861-001-223	Tube	1
4	855-001-426	Butt	1
5	855-001-425	Gland	1
6	850-001-809	Piston	1
7	951-005-034	Lock Nut, 1-1/4 - 12 UNF UNI-Torque	1
8	855-001-424	Hex Nut	4
9	81002578	Tie Rod	4
10	880-001-358	O-Ring	2
11	850-001-812	O-Ring	1
12	855-001-422	Backup Washer	2
13	850-001-814	O-Ring	1
14	880-001-360	U-Cup	1
15	855-001-421	Backup Washer	2
16	850-001-817	Wiper	1
17	850-001-818	Clevis Pin	1
18	840-001-206	Hair Pin Clip	2
19	855-001-402	Clevis Assembly	1
	855-001-429	Seal Kit (Includes Items 10, 11, 12, 13, 14, 15 & 16)	
	81002579	Complete 4 x 16 Cylinder Assembly	

SECTION  
 3C



SECTION 3C  
 PRINCE 5.00 INCH DIAMETER X 16 INCH STROKE CYLINDER  
 7/8 O-RING PORTS  
 91 & LATER  
 FIGURE 3



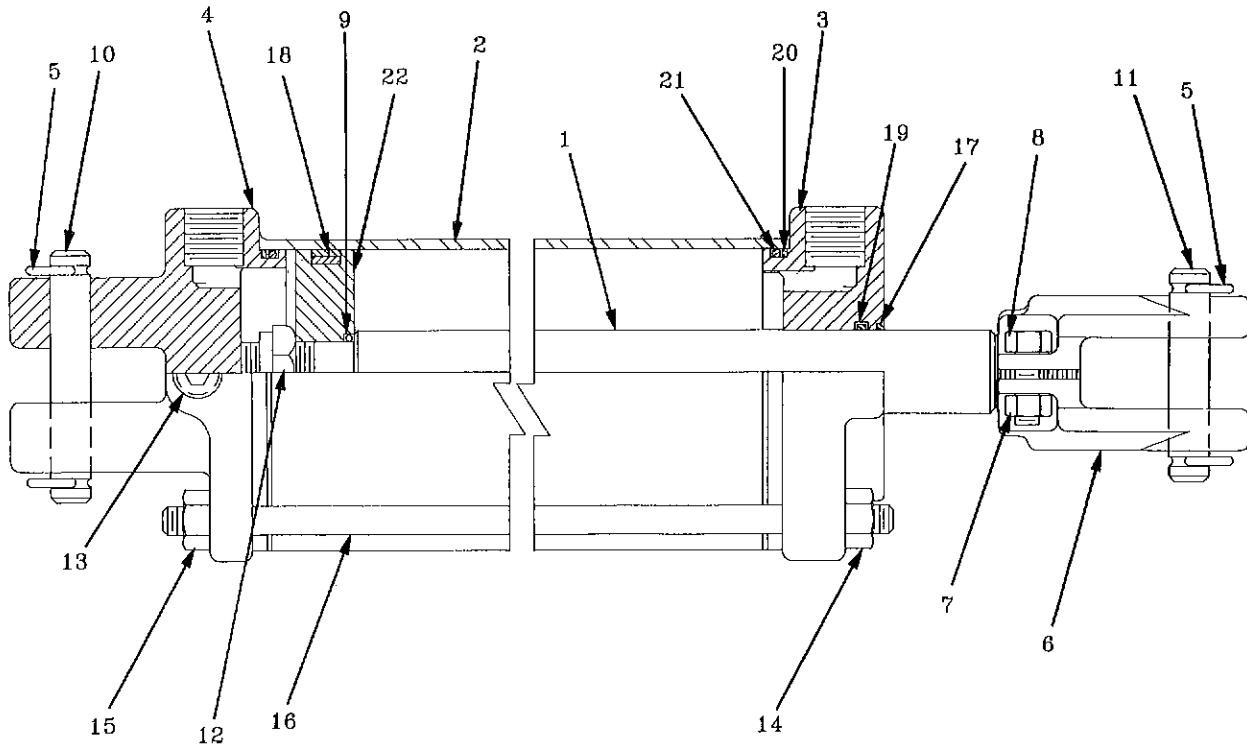
CYLINDER IDENTIFICATION HINIKER P/N 81002581

DWG. NO. 2300

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ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	840-001-189	Piston Rod	1
2	81002593	#10 SAE Plug	1
3	840-001-191	Tube	1
4	81002592	Butt	1
5	81002591	Gland	1
6	840-001-194	Piston	1
7	951-005-034	Lock Nut, 1-1/4 - 12 UNE UNI-Torque	1
8	855-001-424	Hex Nut	4
9	81002590	Tie Rod	4
10	850-002-465	O-Ring	2
11	840-001-199	O-Ring	1
12	81002589	Backup Washer	2
13	840-001-201	O-Ring	1
14	81002588	U-Cup	1
15	81002587	Backup Washer	2
16	840-001-204	Wiper	1
17	81002586	Clevis Pin	1
18	840-001-206	Hair Pin Clip	2
19	81002585	Clevis Assembly	1
	81002594	Seal Kit (Includes Items 10, 11, 12, 13, 14, 15 & 16)	
	81002581	Complete 5 x 16 Cylinder Assembly	

SECTION 3C  
 COMMAND HYDRAULICS 3.00 INCH DIAMETER X 8 INCH STROKE CYLINDER  
 3/4 O-RING PORTS  
 91 & LATER  
 FIGURE 4



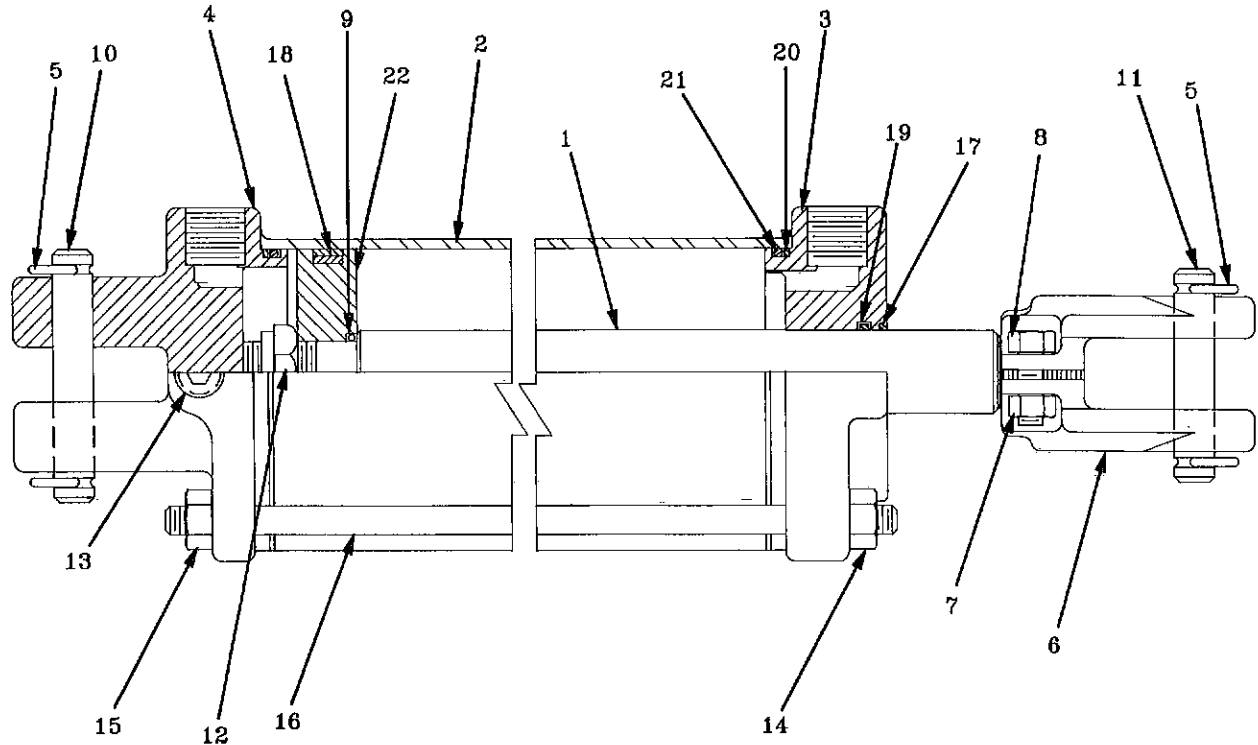
CYLINDER IDENTIFICATION HINIKER P/N 80503830

DWG. NO. 2305

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	80503852	Rod	1
2	80503851	Tube	1
3	80503850	Head	1
4	80503849	Base Clevis	1
5	80503847	Clip Pin	4
6	80503846	Clevis	1
7	80503845	Nut	1
8	80503844	Cap Screw	1
9	80503831	O-Ring	1
10	80503843	Clevis Pin	1
11	80503842	Clevis Pin	1

SECTION  
 3C

**SECTION 3C**  
**COMMAND HYDRAULICS 3.00 INCH DIAMETER X 8 INCH STROKE CYLINDER**  
**3/4 O-RING PORTS**  
**91 & LATER**  
**FIGURE 4**  
**CONTINUED**



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CYLINDER IDENTIFICATION HINIKER P/N 80503830

DWG. NO. 2305

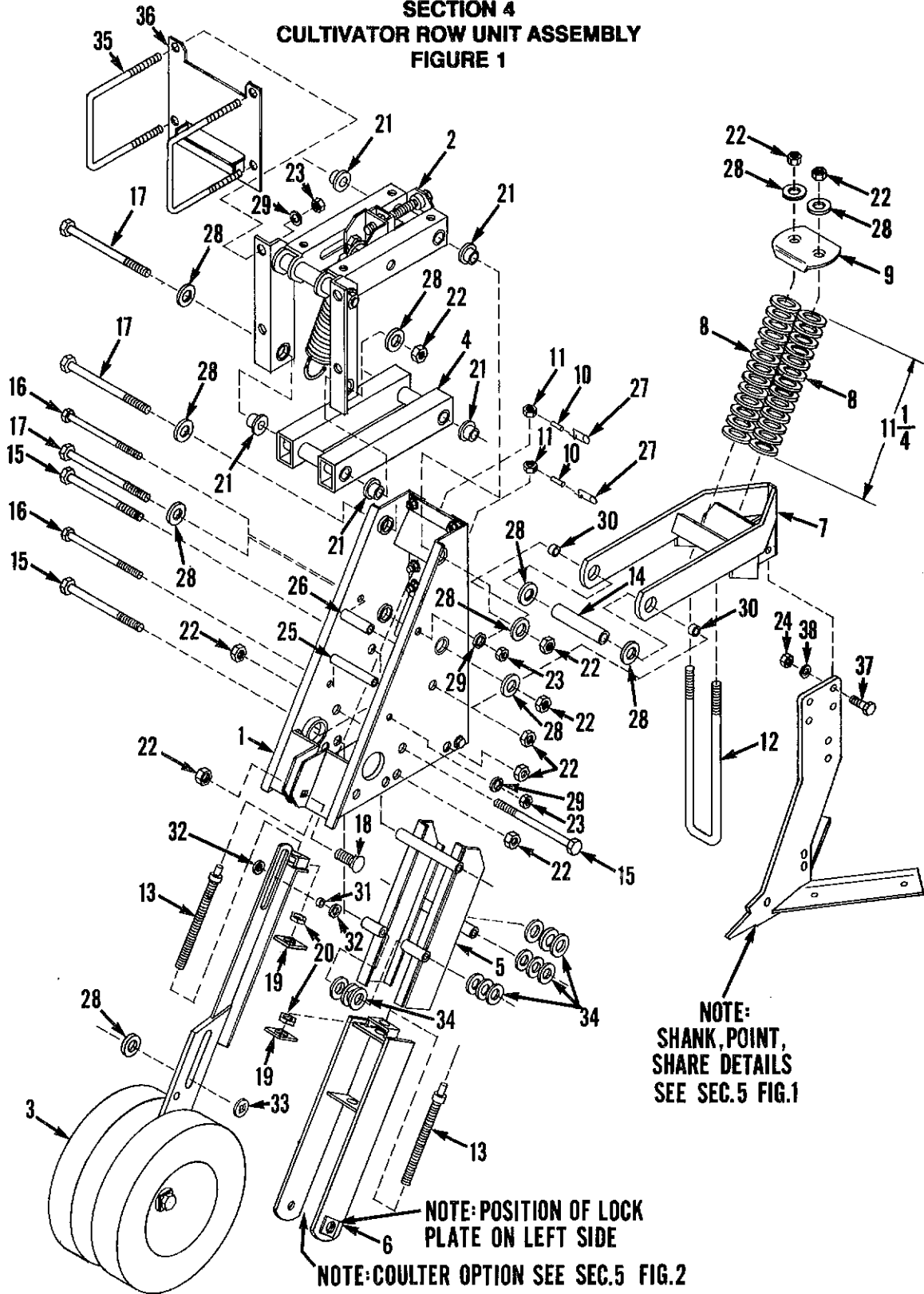
ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
12	80503841	Lock Nut	1
13	80503840	Plug	1
14	80503839	Nut	4
15	80503838	Lock Nut	4
16	80503837	Tie Rod	4
17	80503836	Wiper	1
18	80503835	Uni-Ring	1
19	80503834	U-Cup	1
20	80503833	Back-up Washer	2
21	80503832	O-Ring	2
22	80503848	Piston	1
	80503853	Seal Kit Includes Items 9, 17, 18, 19, 20 & 21	
	80503830	Complete 3 x 8 Cylinder Assembly	



# SECTION 4 COMPONENT PARTS BREAKDOWN

<b>FIGURE 1</b>	<b>CULTIVATOR ROW UNIT ASSEMBLY</b>
<b>FIGURE 2</b>	<b>SIDE PLATE ASSEMBLY</b>
<b>FIGURE 3</b>	<b>TOP LINK AND ANGLE ASSEMBLY</b>
<b>FIGURE 4</b>	<b>GAUGE WHEEL ASSEMBLY</b>
<b>FIGURE 5</b>	<b>GAUGE WHEEL SUPPORT ASSEMBLY</b>
<b>FIGURE 6</b>	<b>HUB W/BEARING AND BOLT ASSEMBLY</b>
<b>FIGURE 7</b>	<b>HUB AND SPINDLE ASSEMBLY</b>
<b>FIGURE 8</b>	<b>UPPER HITCH ASSEMBLY</b>
<b>FIGURE 9</b>	<b>PARKING STAND ASSEMBLY</b>
<b>FIGURE 10</b>	<b>HUB SUB-ASSEMBLY</b>
<b>FIGURE 11</b>	<b>9.5L X 15 TIRE AND RIM ASSEMBLY</b>
<b>FIGURE 12</b>	<b>RH LOWER HITCH ASSEMBLY 89 AND LATER</b>
<b>FIGURE 13</b>	<b>RH LOWER HITCH ASSEMBLY 88 AND EARLIER</b>
<b>FIGURE 14</b>	<b>LH LOWER HITCH ASSEMBLY 89 AND LATER</b>
<b>FIGURE 15</b>	<b>LH LOWER HITCH ASSEMBLY 88 AND EARLIER</b>

SECTION 4  
CULTIVATOR ROW UNIT ASSEMBLY  
FIGURE 1



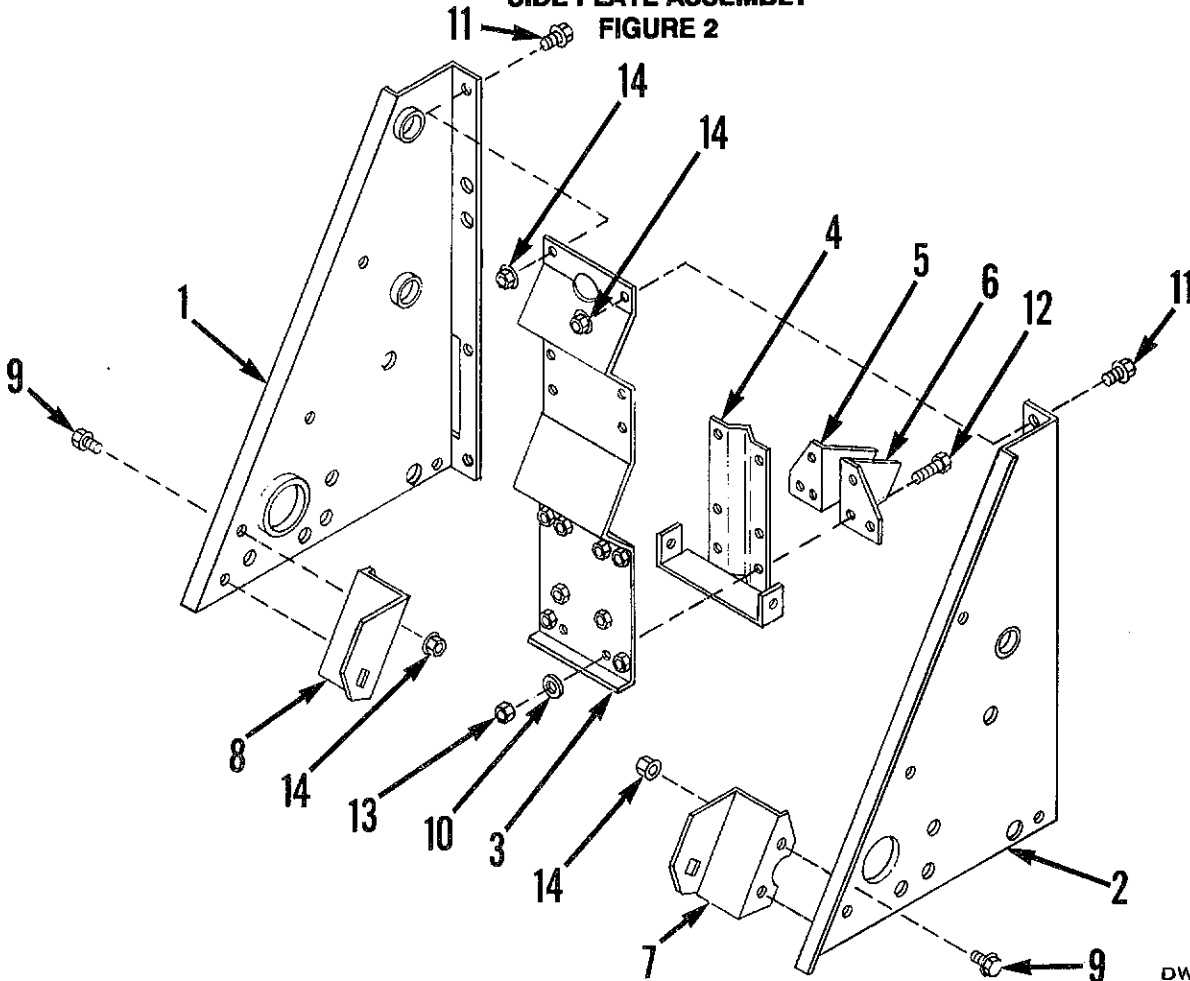
DWG. NO. 1691

CULTIVATOR ROW UNIT ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	810-002-283	Side Plate Assy (See Sec. 4 Fig. 2)	1
2	810-002-281	Top Link & Angle Assy (See Sec. 4 Fig. 3)	1
3	810-002-275	Gauge Wheel Assy (See Sec. 4 Fig. 4)	1
4	810-002-053	Lower Link Weld	1
5	810-002-056	Upper Coulter Support Weld	1
6	810-002-036	Coulter Support Weld	1
7	810-002-061	Shank Holder Weld	1
8	860-001-331	Compression Spring	2
9	810-002-035	Spring Cover	1
10	953-003-026	1/4 x 1-1/8 Spring Pin	2
11	810-002-011	Hex Nut Drilled	2
12	860-001-007	3" Center U-Bolt	1
13	810-001-436	Threaded Rod Weld	2
14	810-002-069	Butt Weld Tube	1
15	950-001-223	3/4 x 8-1/2 Hex HD Bolt Gr. 5	4
16	950-001-181	5/8 x 8-1/2 Hex HD Bolt Gr. 5	2
17	950-001-264	3/4 x 9-1/2 Hex HD Bolt Gr. 5	3
18	950-003-056	3/4 x 2 Carriage Bolt	1
19	810-002-010	Lock Plate	2
20	951-005-072	3/4 Acme Hex Nut	2
21	810-002-009	Flange Bushing	6
22	951-005-033	3/4 Uni-Torque Locknut	9
23	951-001-008	5/8 Hex Nut	6
24	951-005-037	3/4 - 10 UNC 2 Way Lock Nut	1
25	810-002-025	Spacer	1
26	810-002-026	Spacer	2
27	953-005-001	Hair Pin Cotter	2
28	952-002-008	3/4 Flatwasher	11
29	952-001-005	5/8 Lockwasher	6
30	810-002-068	Sleeve	2
31	810-002-027	Spacer	1
32	952-002-007	5/8 Flatwasher	2
33	810-002-393	Washer	1
34	952-004-003	Washer	8
35	805-001-332	5/8 U-Bolt	2
36	810-002-012	Support Plate	1
37	950-001-120	Hex Bolt 1/2 - 13 UNC x 1-3/4 Grade No. 5	4
38	952-001-004	1/2 Lock Washer	4
39	951-001-007	1/2 - 13 NC Hex Nut	4

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SECTION 4  
SIDE PLATE ASSEMBLY  
FIGURE 2

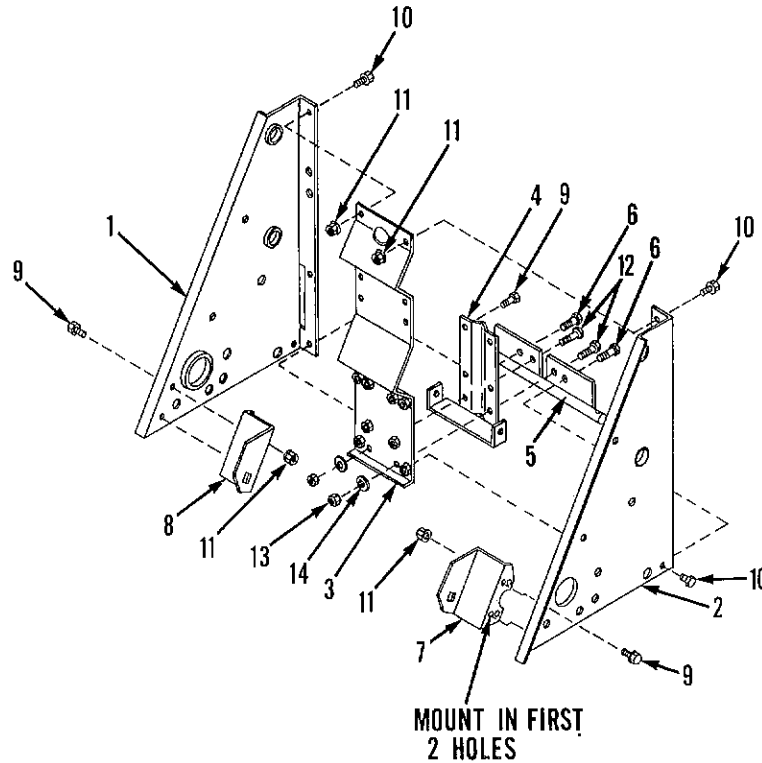


DWG. NO. 1649

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	810-002-048	RH Mast Weld	1
2	810-002-049	LH Mast Weld	1
3	810-002-044	Back Plate Weld	1
4	810-002-041	Support Weld	1
5	810-002-040	RH Rear Support	1
6	810-002-039	LH Rear Support	1
7	810-002-047	LH Support	1
8	810-002-046	RH Support	1
9	950-002-009	3/8 Hex HD Whiz Lock Bolt	12
10	952-001-004	1/2 Lockwasher	2
11	950-002-008	3/8 Hex HD Whiz Lock Bolt	4
12	950-001-111	1/2 Hex Bolt Gr. 5	2
13	951-001-007	1/2 Hex Nut	2
14	951-002-003	3/8 Whiz Locknut	8



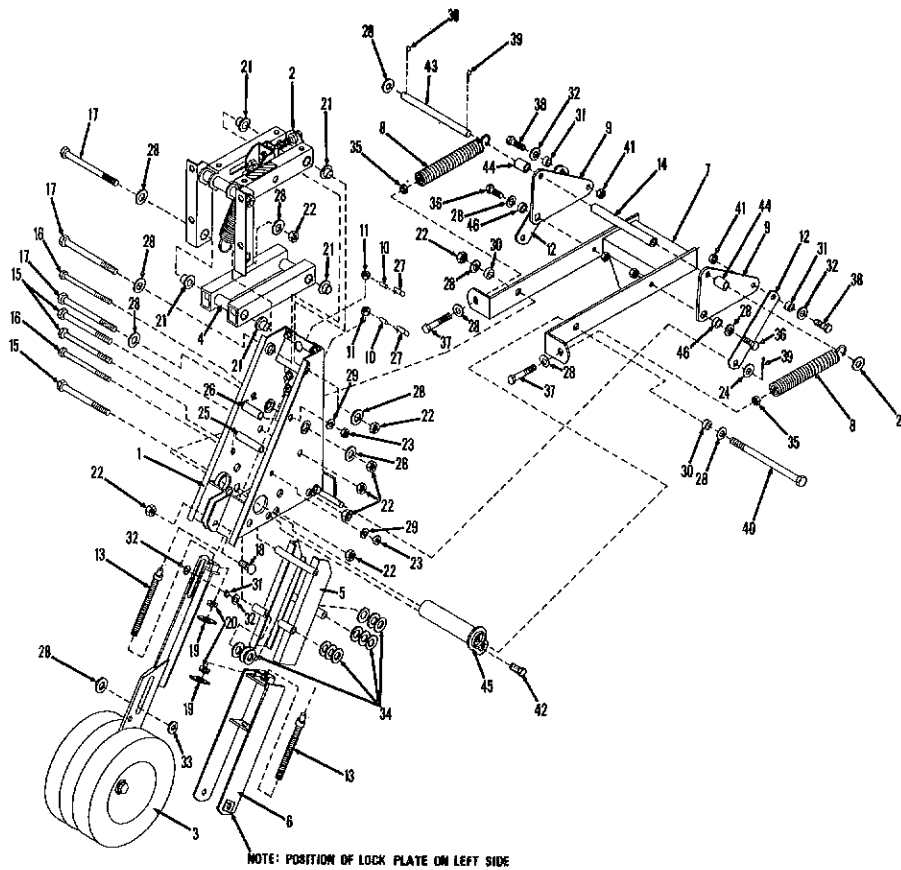
SECTION 4  
SIDE PLATE ASSEMBLY - AUTO RESET SHANK  
FIGURE 2B



DWG. NO. 2274

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-048	RH Mast Weld	1
2	810-002-049	LH Mast Weld	1
3	810-002-044	Back Plate Weld	1
4	810-002-041	Support Weld	1
5	810-002-537	Lower Pivot Weld	1
6	950-002-014	3/8 x 1-1/4 Hex Head Lock Bolt	1
7	810-002-047	LH Support	1
8	810-002-046	RH Support	1
9	950-002-009	3/8 Hex HD Whiz Lock Bolt 1"	12
10	950-002-008	3/8 Hex HD Whiz Lock Bolt 3/4"	4
11	951-002-003	3/8 Whiz Lock Nut	8
12	950-001-125	1/2 x 1-1/2 Hex Bolt GR. 5	2
13	951-001-007	1/2 Hex Nut	2
14	952-001-004	1/2 Lock Washer	2

SECTION 4  
CULTIVATOR ROW UNIT ASSEMBLY - SPRING RESET SHANK  
FIGURE 1B



DWG. NO. 2273

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	Not Available	Side Plate Assembly (see sect. 4 fig. 2B)	1
2	Not Available	Top Link And Angle Assembly (see section 4 fig. 3)	1
3	Not Available	Gauge Wheel Assembly (see sect. 4 fig. 4)	1
4	810-002-053	Lower Link Weld	1
5	810-002-056	Upper Coultter Support Weld	1
6	810-002-036	Coultter Support Weld	1
7	810-002-555	Trip Shank Holder	1
8	810-002-552	Extension Spring Assembly	2
9	810-002-546	Pivot Plate	2
10	953-003-026	Spring Pin, 1/4 x 1-1/8	2
11	810-002-011	Hex Nut Drilled	2

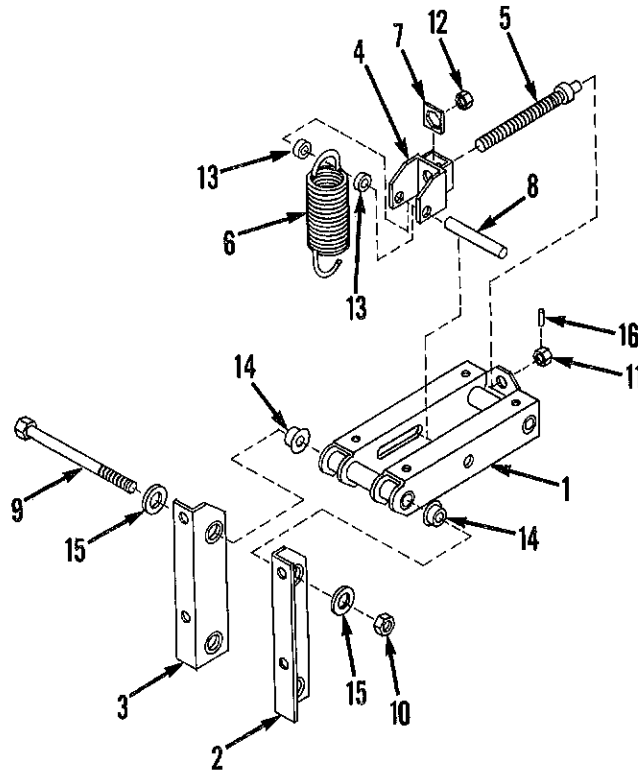
CULTIVATOR ROW UNIT ASSEMBLY - SPRING RESET SHANK

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
12	810-002-545	Pivot Link	2
13	810-001-436	Threaded Rod Weld	2
14	810-002-542	Spacer, 3/4 I.D. x 11-3/4 Long	1
15	950-001-223	HHCS, 3/4 - 10 UNC x 8-1/2 GR.5	3
16	950-001-181	HHCS, 5/8 - 11 UNC x 8-1/2 GR.5	2
17	950-001-236	HHCS, 3/4 - 10 UNC x 10 GR.5	3
18	950-003-063	Carriage Bolt, 3/4 - 10 UNC 2-1/2	1
19	810-002-010	Lock Plate	2
20	951-005-072	Hex Nut, 3/4 - 6 ACME	2
21	810-002-009	Flange Bushing	6
22	951-005-033	Uni-Torque Lock Nut, 3/4 - 10 UNC	10
23	951-001-008	Hex Nut, 5/8 - 11 UNC	2
24	952-002-009	7/8 Flat Washer	2
25	810-002-025	Spacer, 5/8 I.D. x 7-3/8 Long	1
26	810-002-026	Spacer, 5/8 I.D. x 3-5/16 Long	2
27	803-001-703	Safety Pin	2
28	952-002-008	3/4 Flat Washer	15
29	952-001-005	5/8 Lock Washer	2
30	810-002-540	Spacer, 3/4 I.D. x 27/32 Long	2
31	810-002-027	Spacer, 5/8 I.D. x 7/16 Long	3
32	952-002-007	5/8 Flat Washer	4
33	810-002-393	Square Hole Washer	1
34	952-004-003	Washer, 25/32 I.D. x 1-1/4 O.D. x .075 Thick	18
35	951-005-052	Jam Nut, 3/4 - 10 UNC	2
36	950-001-166	HHCS, 3/4 - 10 UNC x 2 GR.5	2
37	950-001-033	HHCS, 3/4 - 10 UNC x 4-1/2 GR.5	2
38	950-001-023	HHCS, 5/8 - 11 UNC x 2 GR.5	2
39	953-001-012	Cotter Pin, 1/4 x 2	4
40	950-001-279	HHCS, 3/4 - 10 UNC x 13 GR.5	1
41	951-005-044	2-Way Lock Nut, 5/8 - 11 UNC	2
42	950-001-028	HHCS, 3/4 - 10 UNC x 1-1/2 GR.5	1
43	810-002-544	3/4 Inch Rod	1
44	810-002-541	Spacer, 3/4 x 1-13/16 Long	2
45	810-002-536	Pivot Tube Weld	1
46	810-002-539	Spacer, 3/4 I.D. x 13/32 Long	2

4 CIES



**SECTION 4  
TOP LINK & ANGLE ASSEMBLY  
FIGURE 3**

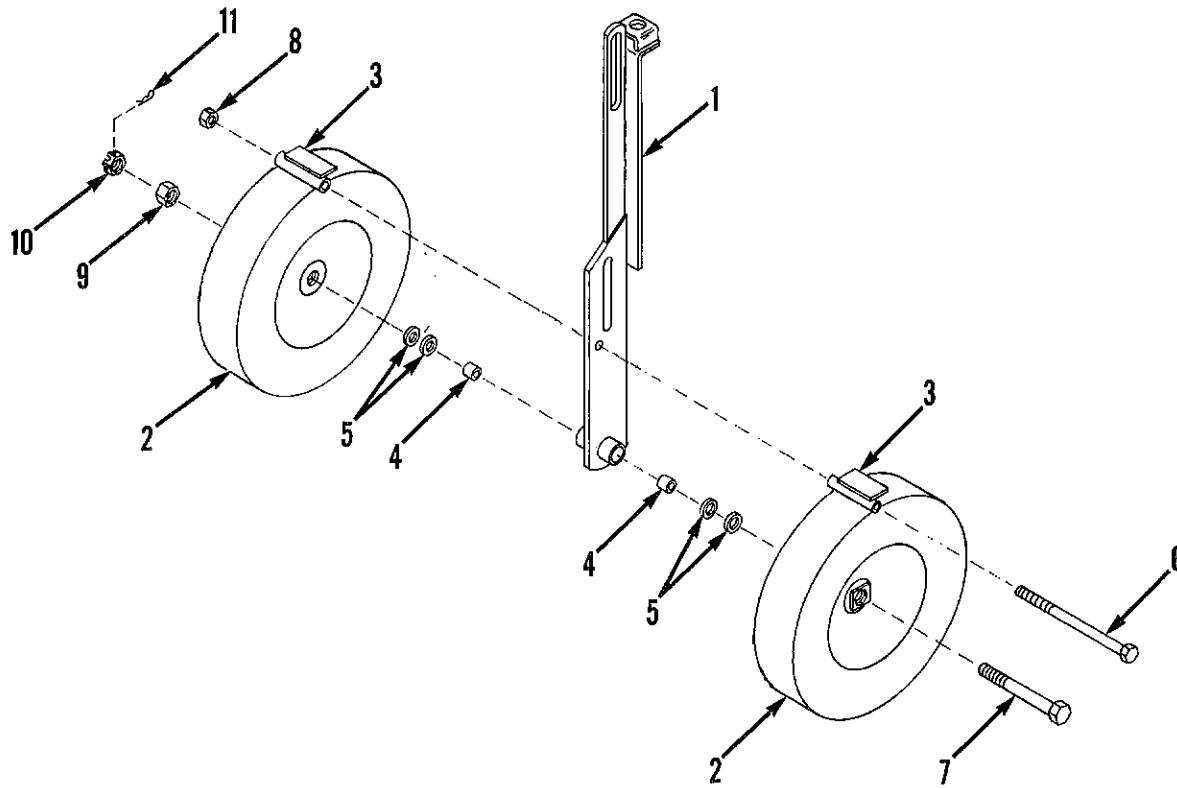


DWG. NO. 1648

SECTION  
4

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	810-002-018	Top Link Weld	1
2	810-002-013	LH Angle Weld	1
3	810-002-014	RH Angle Weld	1
4	810-002-023	Channel Support Weld	1
5	810-001-436	Threaded Rod Weld	1
6	810-002-119	Extension Spring	1
7	810-002-010	Lock Plate	1
8	810-002-458	Rod	1
9	950-001-236	3/4 - 10 UNC x 10" LG Hex Bolt Gr. 5	1
10	951-005-033	3/4 Uni-Torque Lock Nut	1
11	810-002-011	Hex Nut Drilled	1
12	951-005-072	3/4 Acme Hex Nut	1
13	810-002-459	Set Screw Collar	2
14	810-002-009	Flange Bushing	2
15	952-002-008	3/4 Flat Washer	2
16	953-003-026	1/2 x 1-1/8 Spring Pin	1

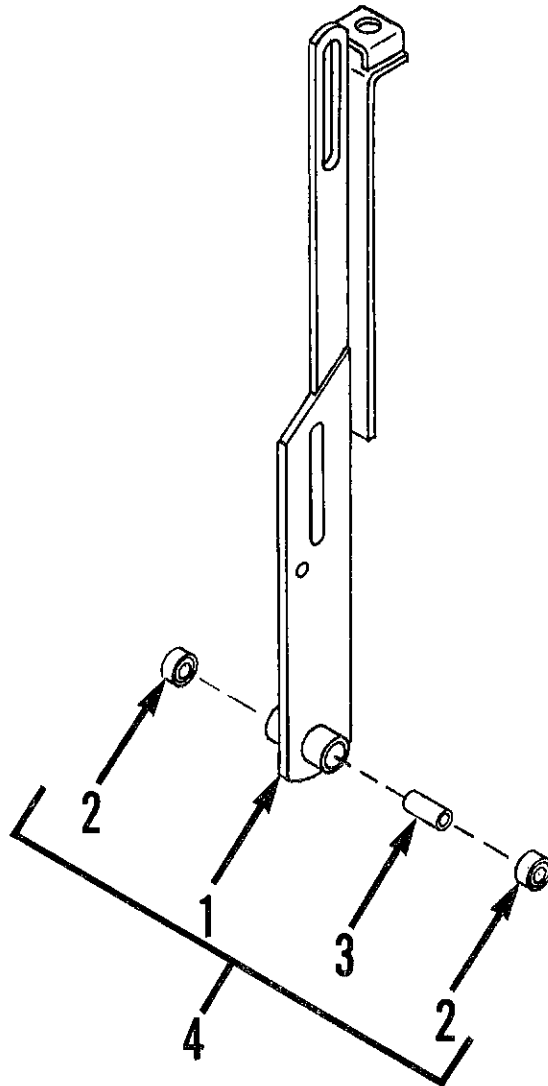
SECTION 4  
GAUGE WHEEL ASSEMBLY  
FIGURE 4



DWG. NO. 1650

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	810-002-028	Gauge Wheel Support Assy (See Sec. 4 Fig. 5)	1
2	810-002-103	Gauge Wheel Weld	2
3	810-002-263	Scraper Weld	2
4	810-002-102	Spacer	2
5	952-002-008	3/4 Flat Washer	4
6	950-001-178	5/8 Hex Bolt	1
7	810-002-274	3/4 Hex Bolt W/Hole	1
8	951-005-063	5/8 Locknut	1
9	951-001-009	3/4 Hex Nut	1
10	951-005-076	3/4 Slotted Hex Nut	1
11	953-001-017	5/32 x 1-1/2 Cotter Pin	1

**SECTION 4  
GAUGE WHEEL SUPPORT ASSEMBLY  
FIGURE 5**

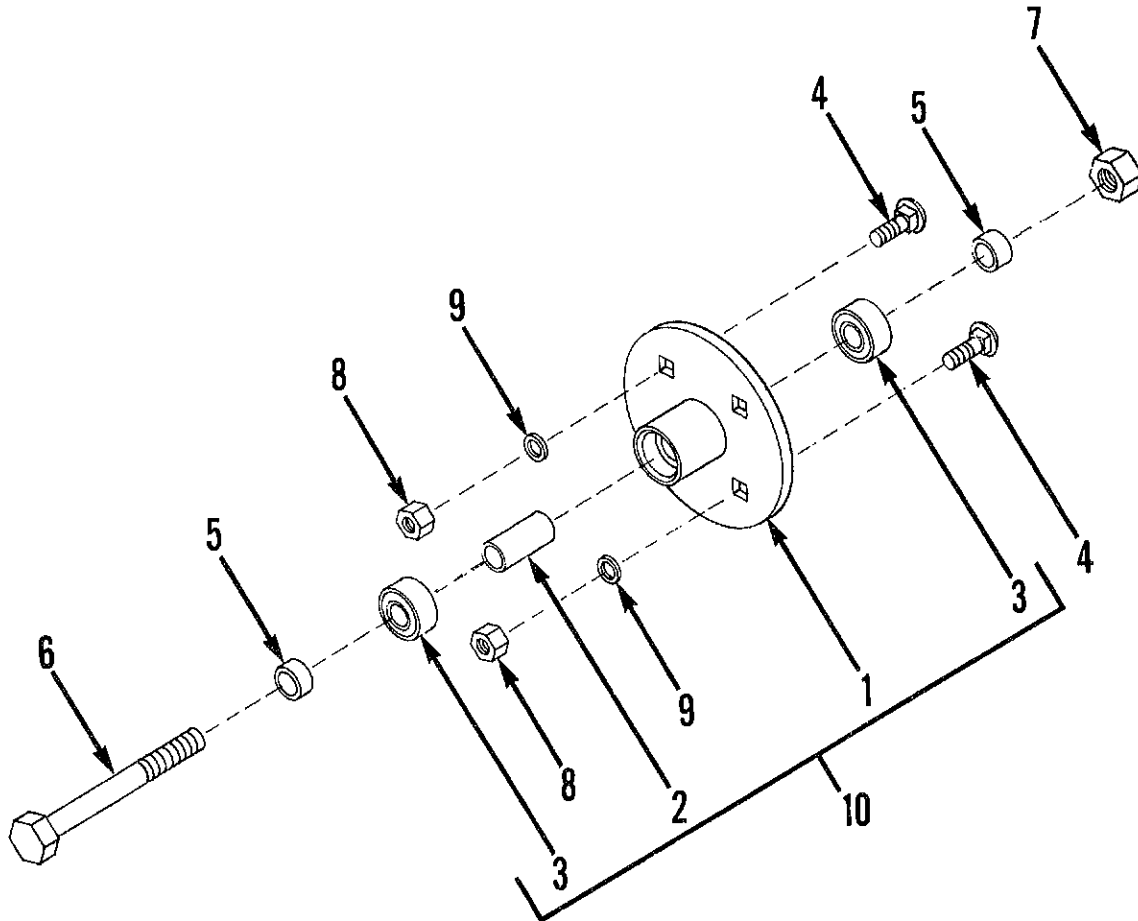


DWG. NO. 1665

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	810-002-029	Gauge Wheel Support Weld	1
2	803-001-040	3/4 Bearing	2
3	810-002-034	Spacer	1
4	810-002-028	Gauge Wheel Support Assembly	1

SECTION  
4

**SECTION 4**  
**HUB W/BEARING & BOLT ASSEMBLY**  
**FIGURE 6**



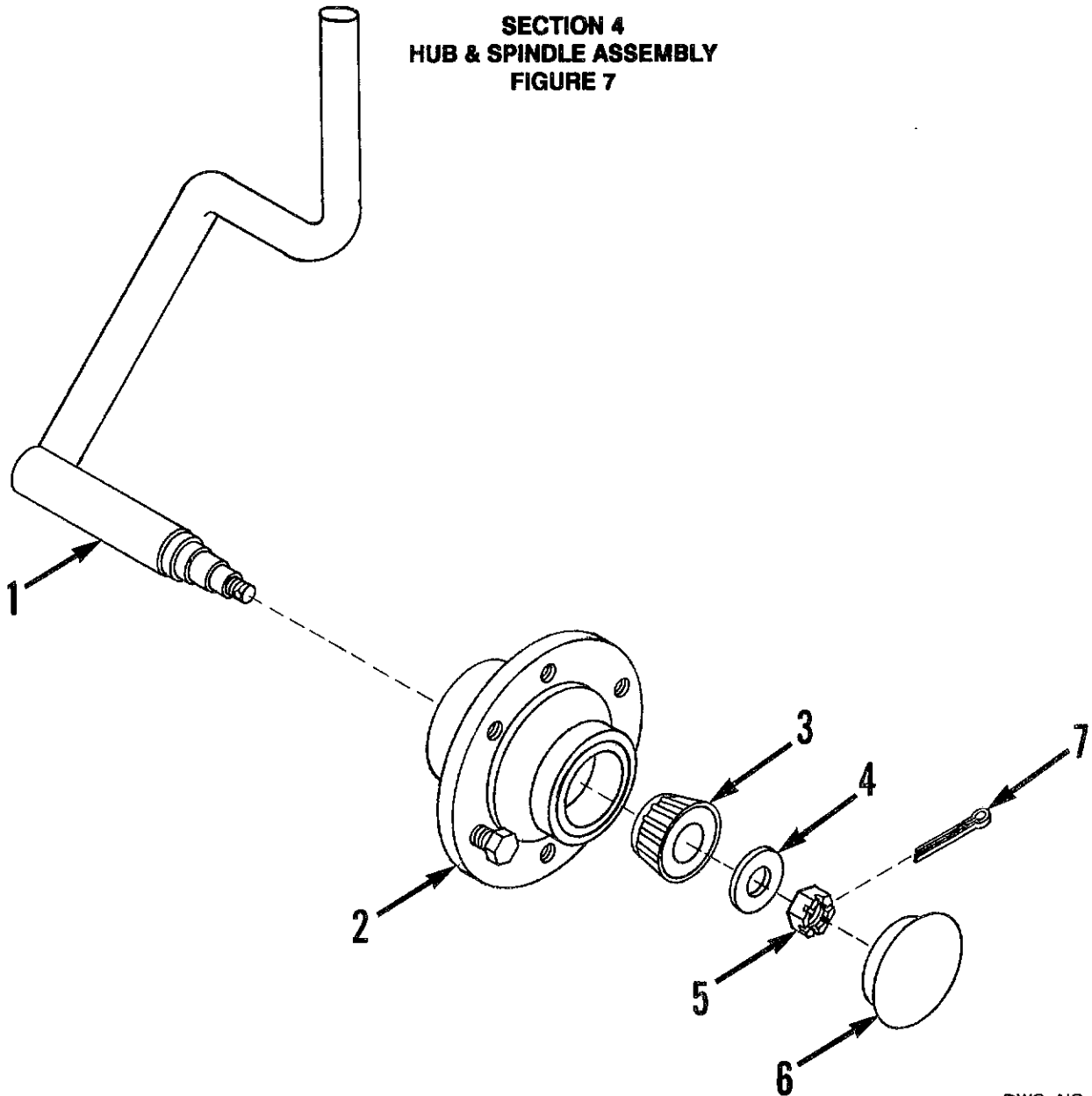
DWG. NO. 1651

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-101	Hub Weld	1
2	810-002-034	Spacer	1
3	600-02009	3/4 Bearing	2
4	950-003-028	1/2 - 13 NC x 1-1/4 Lg Carr Bolt	4
5	810-002-102	Spacer	2
6	950-001-192	3/4 - 10 NC x 5-1/2 Lg Hex Bolt Gr. 5	1
7	951-005-052	3/4 - 10 NC Jam Nut	1
8	951-001-007	1/2 - 13 NC Hex Nut	4
9	952-001-004	1/2 Lockwasher	4
10	810-002-100	Hub W/Bearing (includes items 1, 2, & 3)	1

SECTION  
4



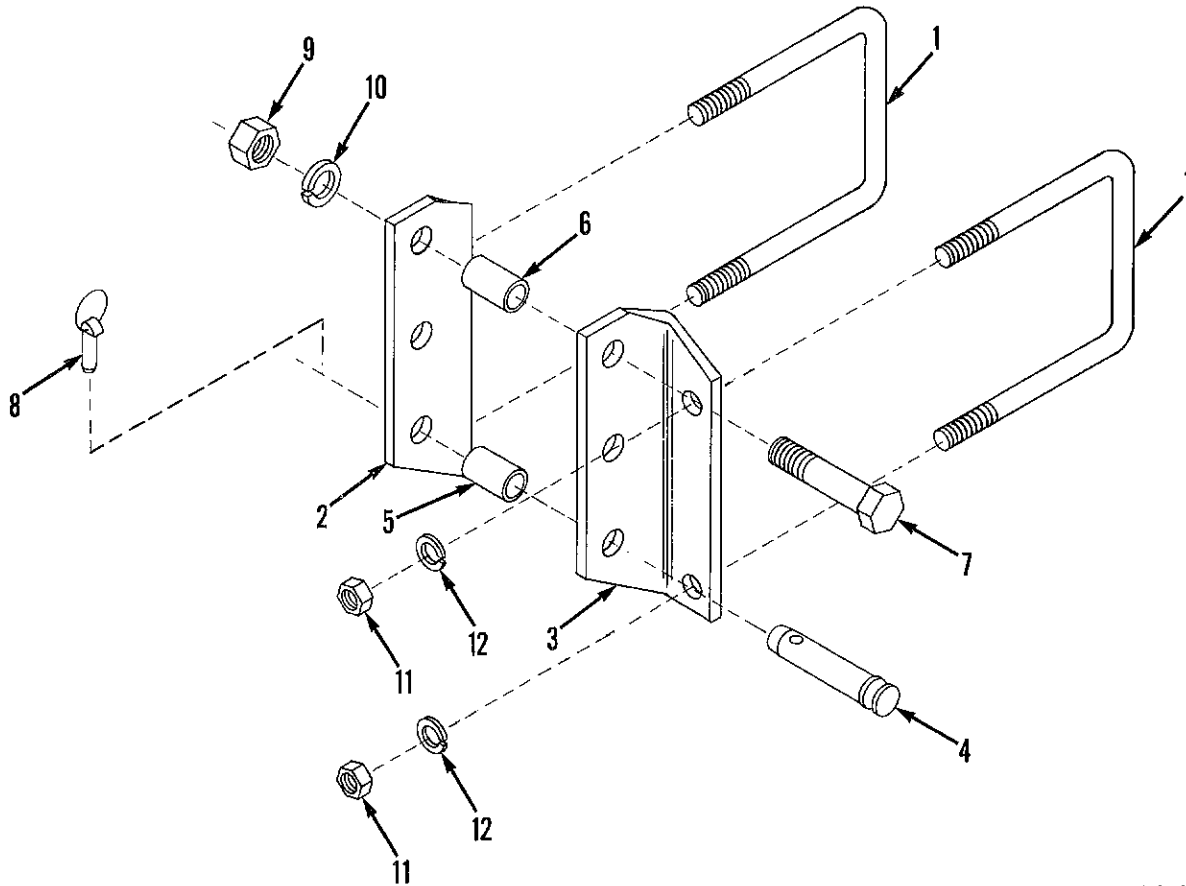
**SECTION 4  
HUB & SPINDLE ASSEMBLY  
FIGURE 7**



DWG. NO. 1696

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	805-001-096	Axle Weld	1
2	850-003-054	Hub Sub-Assembly (See Sec. 4 Fig. 10)	1
3	850-001-153	Cone Bearing	1
4	802-000-007	Washer	1
5	951-005-002	7/8 - 14 UNF Slotted Nut	1
6	850-001-155	Hub Cap	1
7	953-001-017	5/32 x 1-1/2 Cotter Pin	1

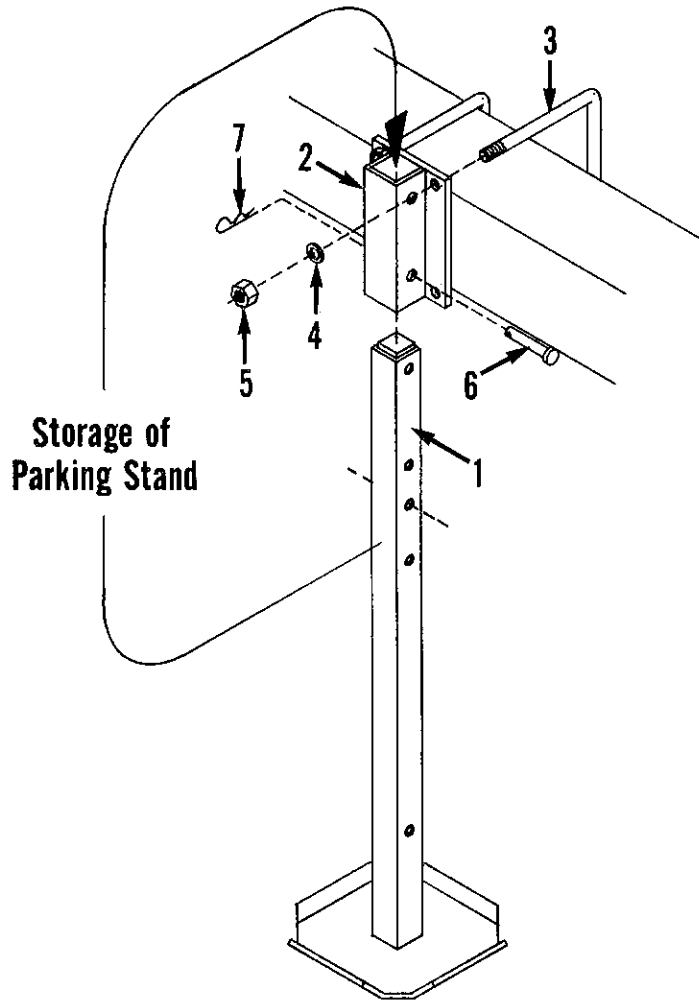
SECTION 4  
UPPER HITCH ASSEMBLY  
FIGURE 8



DWG. NO. 1694

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	875-001-038	3/4 U-Bolt	2
2	810-002-086	RH Upper Hitch	1
3	810-002-087	LH Upper Hitch	1
4	875-001-123	Top Link Pin	1
5	230-026-004	Bushing	1
6	890-001-009	Spacer	1
7	950-001-170	1" x 4-1/2 LG Hex Bolt	1
8	230-026-005	Klik Pin	1
9	951-001-011	1" Hex Nut	1
10	952-001-009	1" Lockwasher	1
11	951-001-009	3/4 Hex Nut	4
12	952-001-006	3/4 Lockwasher	4

**SECTION 4  
PARKING STAND ASSEMBLY  
FIGURE 9**

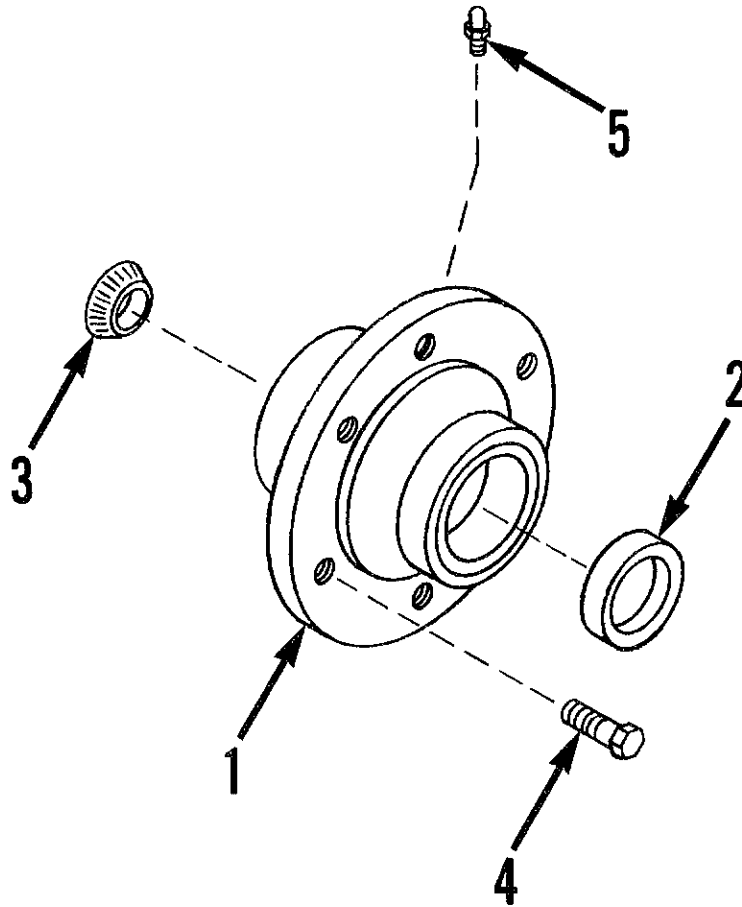


**SEC  
4**

DWG. NO. 1384

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	885-001-037	Stand Weld	1
2	805-001-847	Mounting Bracket Weld	1
3	875-001-038	3/4 U-Bolt	2
4	952-001-006	3/4 Lockwasher	4
5	951-001-009	3/4 Hex Nut	4
6	953-002-021	Pin	1
7	953-005-001	Hair Pin	1

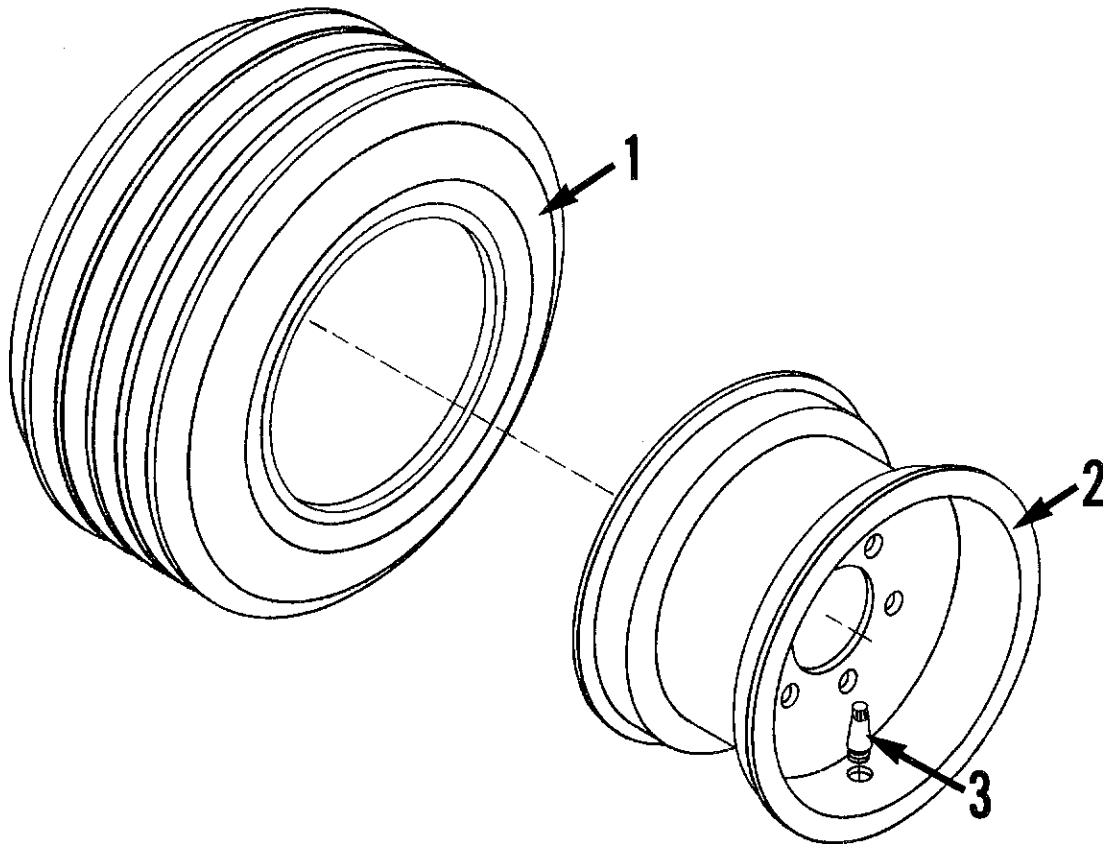
SECTION 4  
HUB SUB-ASSEMBLY  
FIGURE 10



DWG. NO. 1698

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	850-001-157	Hub Assembly	1
2	850-001-164	Seal Triple Lip	1
3	850-001-154	Cone	1
4	950-011-008	1/2 x 1-1/4 Wheel Bolt	6
5	955-001-001	Grease Fitting	1

**SECTION 4**  
**TIRE & RIM ASSEMBLY (9.5L x 15)**  
**FIGURE 11**

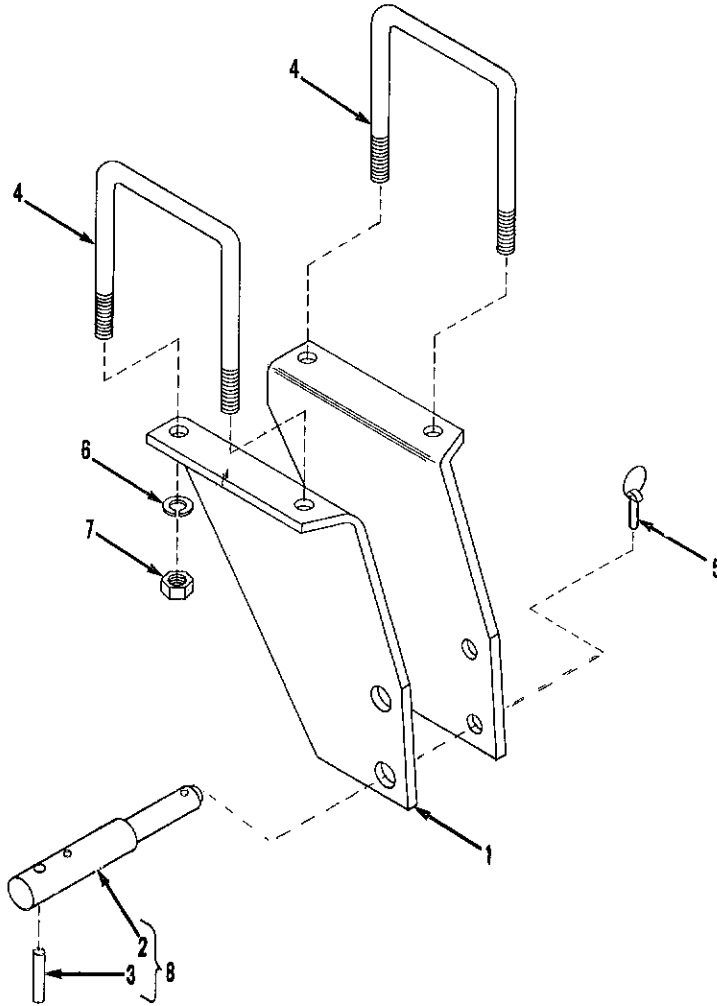


SECTION 4

DWG. NO. 224

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	850-001-396	Tire Valve (Low Profile)	1
2	850-001-093	Rim 8 LB - 15 (6 Bolt)	1
3	850-001-004	Tire 9.5L - 15 (6 Ply)	1

SECTION 4  
RH LOWER HITCH ASSEMBLY  
(89 & LATER)  
FIGURE 12

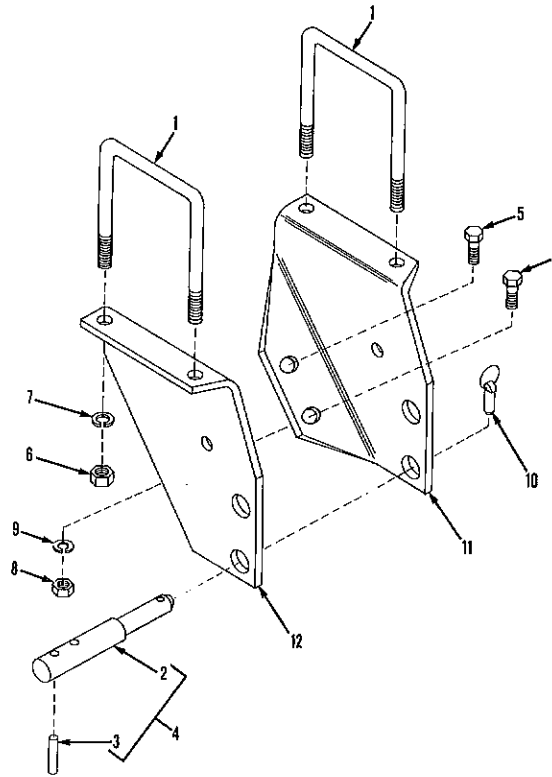


DWG. NO. 1808

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-456	RH Lower Hitch Weld	1
2	805-003-553	Lower Hitch Pin	1
3	953-003-002	Spring Pin, 1/2 x 2-1/2	1
4	875-001-038	3/4 U-Bolt	2
5	230-026-005	Klik Pin	1
6	952-001-006	3/4 Lockwasher	4
7	951-001-009	3/4 - 10 UNC Hex Nut	4
8	810-002-052	Pin Ass'y	1

4 Cms

SECTION 4  
LH LOWER HITCH ASSEMBLY  
(88 & EARLIER)  
FIGURE 13

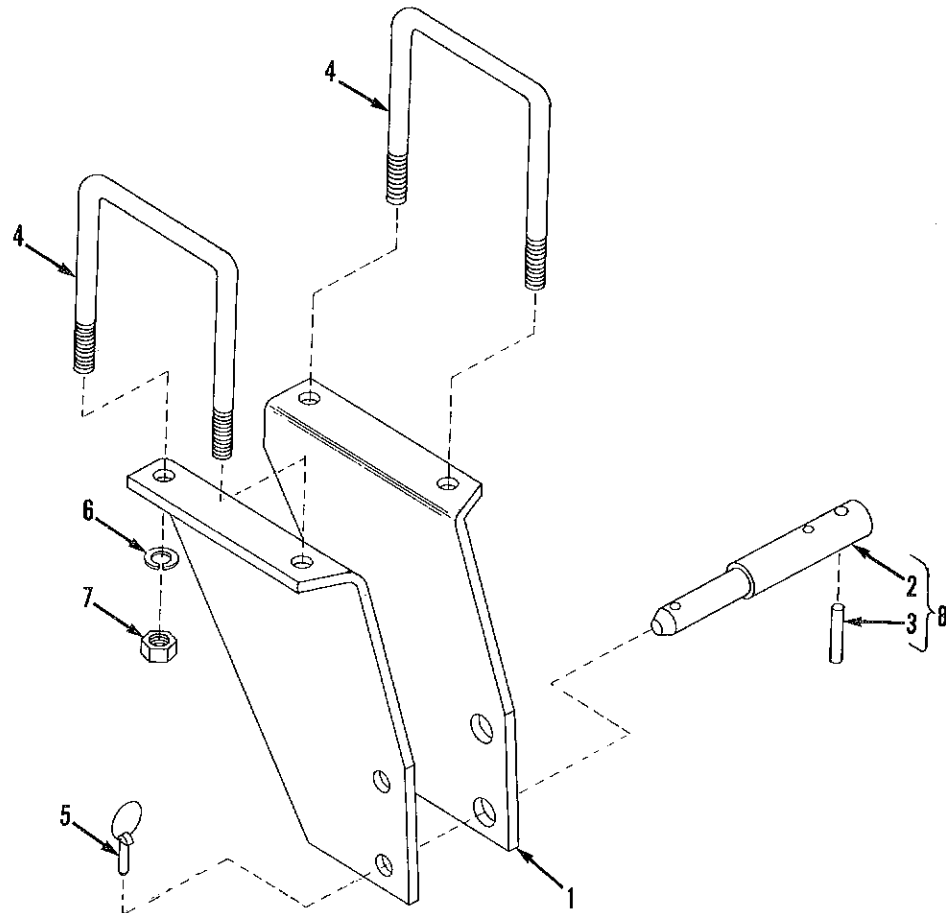


DWG. NO. 1692

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	875-001-038	3/4 U-Bolt	2
2	805-003-553	Lower Hitch Pin	1
3	953-003-002	1/2 x 2-1/2 Spring Pin	1
4	810-002-052	Pin Ass'y (Includes items 2 & 3)	1
5	950-001-132	5/8 x 1-3/4 Lg Hex Bolt Gr. 5	2
6	951-001-009	3/4 - 10 Hex Nut	4
7	952-001-006	3/4 Lockwasher	4
8	951-001-008	5/8 - 11 Hex Nut	2
9	952-001-005	5/8 Lockwasher	2
10	230-026-005	Klik Pin	1
11	See Note	RH Inside Lower Hitch Plate	0
12	See Note	RH Outside Lower Hitch Plate	0
NOTE: Items 11 & 12 are replaced by 810-002-456 Qty. 1.			

S 4

SECTION 4  
LH LOWER HITCH ASSEMBLY  
(89 & LATER)  
FIGURE 14



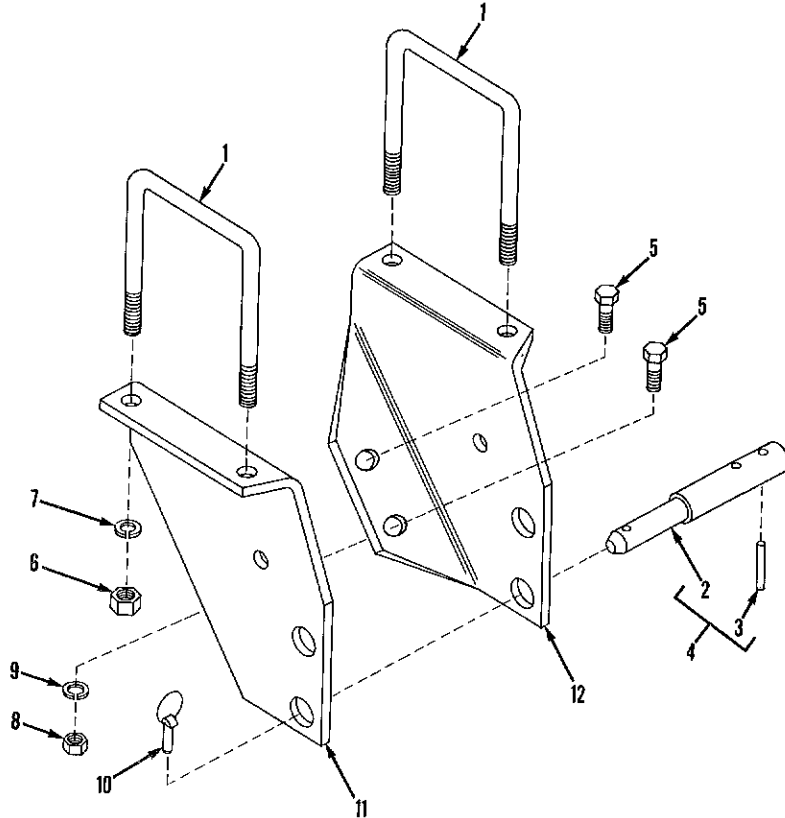
DWG. NO. 1809

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-457	LH Lower Hitch Weld	1
2	805-003-553	Lower Hitch Pin	1
3	953-003-002	Spring Pin, 1/2 x 2-1/2	1
4	875-001-038	3/4 U-Bolt	2
5	230-026-005	Klik Pin	1
6	952-001-006	3/4 Lockwasher	4
7	951-001-009	3/4 - 10 UNC Hex Nut	4
8	810-002-052	Pin Ass'y	1

SECTION 4



SECTION 4  
LH LOWER HITCH ASSEMBLY  
(88 & EARLIER)  
FIGURE 15



DWG. NO. 1693

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	875-001-038	3/4 U-Bolt	2
2	805-003-553	Lower Hitch Pin	1
3	953-003-002	1/2 x 2-1/2 Spring Pin	1
4	810-002-052	Pin Ass'y (includes items 2 & 3)	1
5	950-001-132	5/8 x 1-3/4 Lg Hex Bolt Gr. 5	2
6	951-001-009	3/4 - 10 Hex Nut	4
7	952-001-006	3/4 Lockwasher	4
8	951-001-008	5/8 - 11 Hex Nut	2
9	952-001-005	5/8 Lockwasher	2
10	230-026-005	Klik Pin	1
11	See Note	LH Inside Lower Hitch Plate	0
12	See Note	LH Outside Lower Hitch Plate	0

NOTE: Items 11 & 12 are replaced by 810-002-457 Qty. 1.

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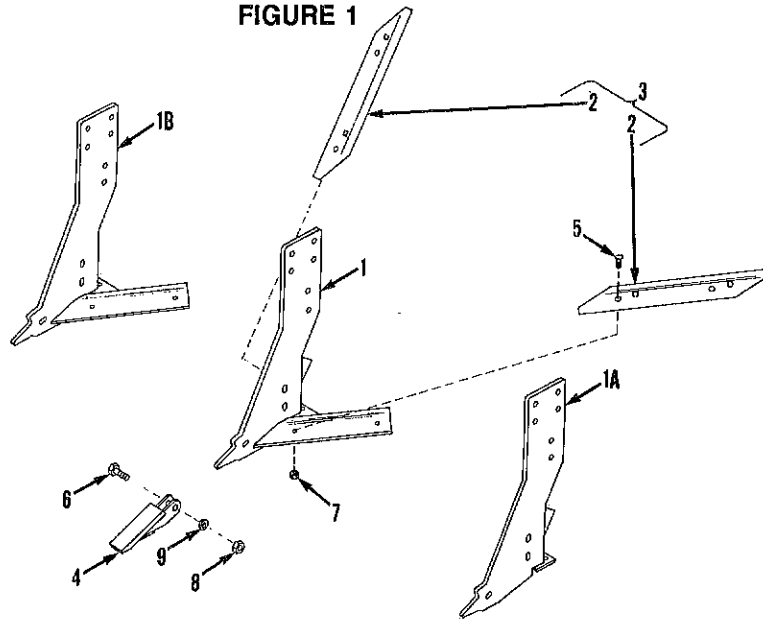
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# SECTION 5 OPTIONAL EQUIPMENT

- FIGURE 1 SWEEP SHARE
- FIGURE 2 ADJUSTABLE RIDGERS
- FIGURE 3 COULTER OPTION
- FIGURE 4 COULTER SCRAPER
- FIGURE 5 CUTAWAY DISC OPTION
- FIGURE 6 SPINDLE ASSEMBLY
- FIGURE 7 LIFT ASSIST
- FIGURE 8 SINGLE LIFT ASSIST HYDRAULIC PLUMBING
- FIGURE 9 DUAL LIFT ASSIST HYDRAULIC PLUMBING
- FIGURE 10 CONCRETE BLOCKS
- FIGURE 11 ANHYDROUS KNIFE HOLDER
- FIGURE 12 LIQUID FERTILIZER PIPE
- FIGURE 13 ANHYDROUS HITCH WITHOUT LIFT ASSIST
- FIGURE 14 ANHYDROUS HITCH WITH SINGLE LIFT ASSIST
- FIGURE 15 ANHYDROUS HITCH WITH DUAL LIFT ASSIST
- FIGURE 16 ROLLING SHIELD AND ROTARY HOE WHEEL
- FIGURE 17 ROLLING SHIELD AND ROTARY HOE WHEEL MOUNT RIGID TOOLBAR
- FIGURE 18 ROLLING SHIELD AND ROTARY HOE WHEEL FOLDING TOOLBAR
- FIGURE 19 PLASTIC SHIELD
- FIGURE 20 METAL TUNNEL SHIELD
- FIGURE 21 INNER CHANNEL ASSEMBLY
- FIGURE 22 ROTARY HOE WHEEL 87 AND EARLIER

SECTION 5  
SWEEP SHARES  
FIGURE 1

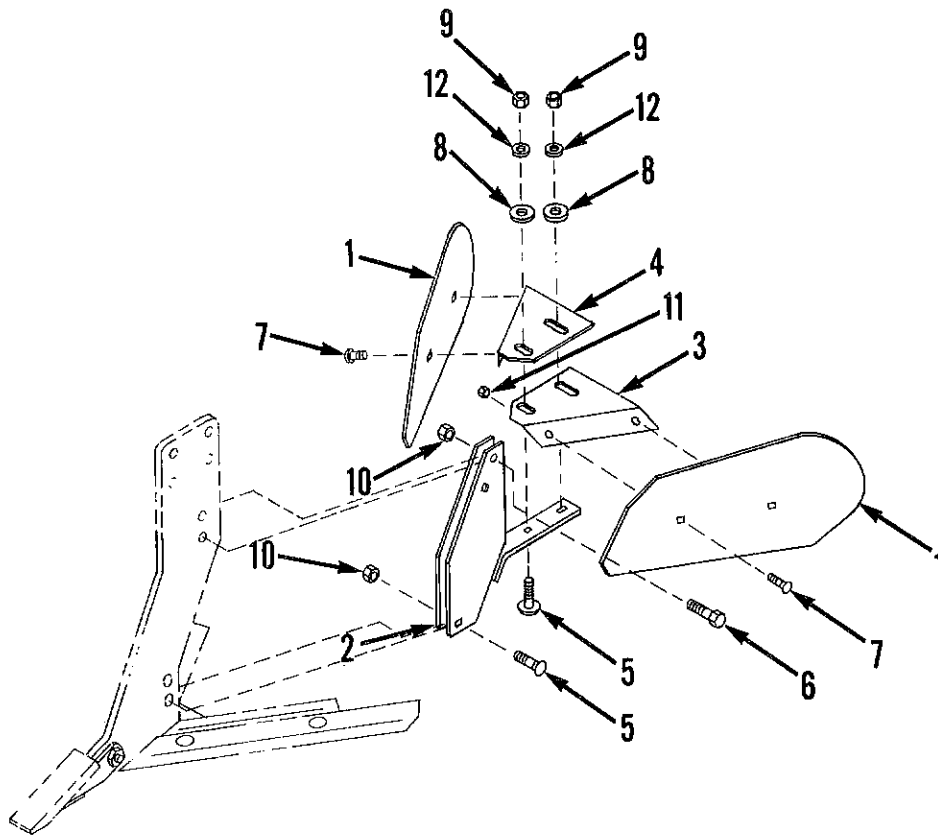


DWG. NO. 1655

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-112	Center Shank Weld	1
1A	810-002-116	RH Shank Weld	1
1B	810-002-117	LH Shank Weld	1
2	810-002-432	17" Double Edge Share	2
	810-002-486	19" Double Edge Share	2
	810-002-433	21" Double Edge Share	2
	810-002-434	25" Double Edge Share	2
	810-002-435	27" Double Edge Share	2
3	5033-17	17" Double Edge Share Option 2 Row	
	5033-19	19" Double Edge Share Option 2 Row	
	5033-21	21" Double Edge Share Option 2 Row	
	5033-25	25" Double Edge Share Option 2 Row	
	5033-27	27" Double Edge Share Option 2 Row	
4	810-002-106	Point Weld (with wear pad point)	1
	810-002-501	Point Weld (heat treated for rocky soil)	1
5	950-007-001	3/8 - 16 UNC x 1" Plow Bolt	4
6	950-007-125	1/2 - 13 UNC x 1-1/2 Hex Bolt Gr. 5	1
7	951-002-003	3/8 - 16 UNC Whiz Nut	4
8	951-001-007	1/2 - 13 UNC Whiz Nut	1
9	952-001-004	1/2 Lockwasher	1

The Double Edge Shares Are Not Sold Separately. They Are Sold As A Two Row Opt. Which Contains: 4 Double Edge Shares See Item 3 For Order No.

SECTION 5  
ADJUSTABLE RIDGERS  
FIGURE 2

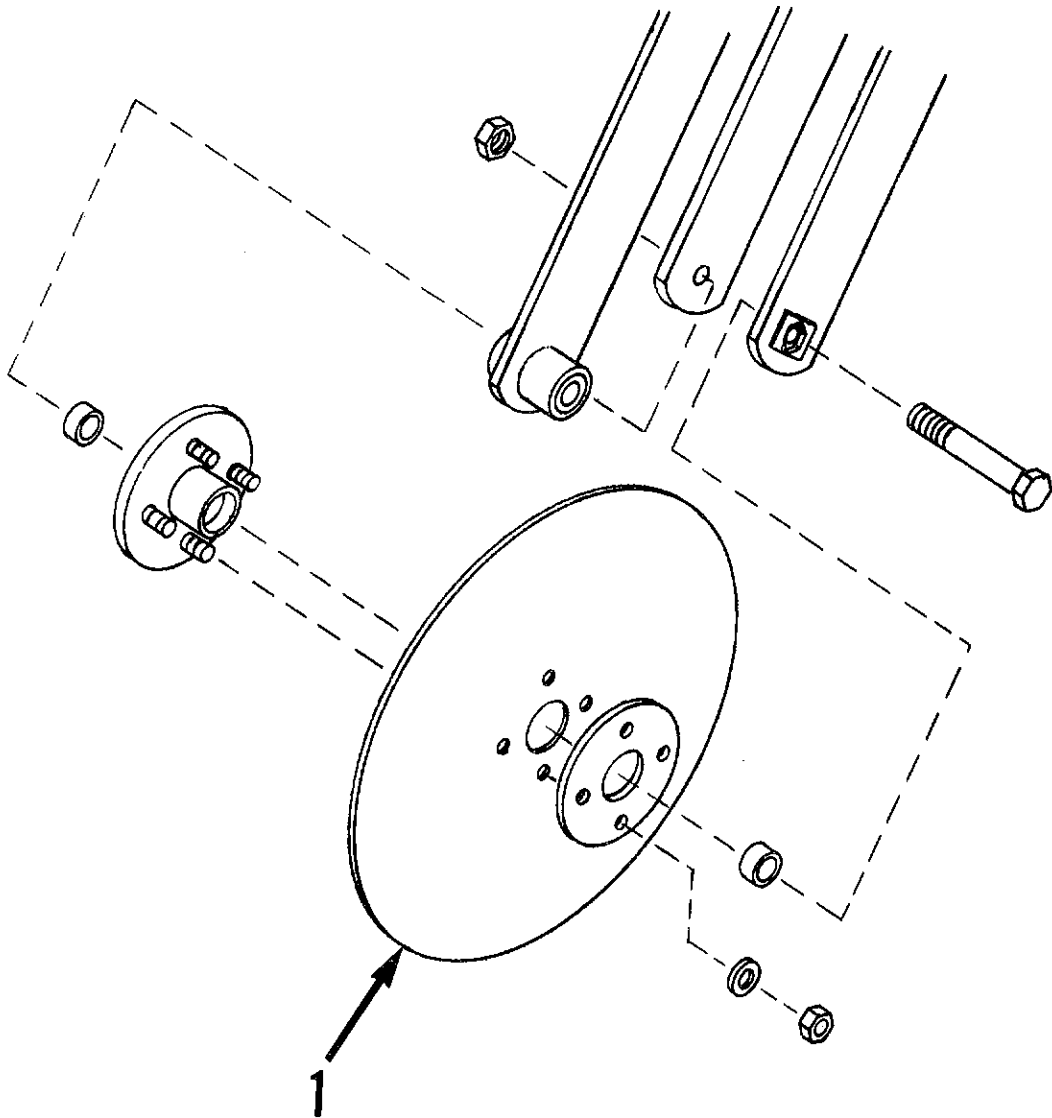


DWG. NO. 1656

SERIES 5

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-124	Ridger Wings	2
2	810-002-127	Support Weld	1
3	810-002-125	LH Support	1
4	810-002-126	RH Support	1
5	950-003-019	1/2 - 13 NC x 1-1/2 Carriage Bolt	3
6	950-002-013	1/2 - 13 NC x 1-1/2 Whiz Bolt	1
7	950-003-054	3/8 - 16 NC x 3/4 Carriage Bolt	4
8	<b>952-004-059</b>	Heavy Flat Washer	2
9	951-001-007	1/2 - 13 NC Hex Nut	2
10	951-005-055	1/2 Machine Lock Nut	2
11	951-002-003	3/8 - 16 NC Whiz Nut	4
12	952-001-004	1/2 Lockwasher	2

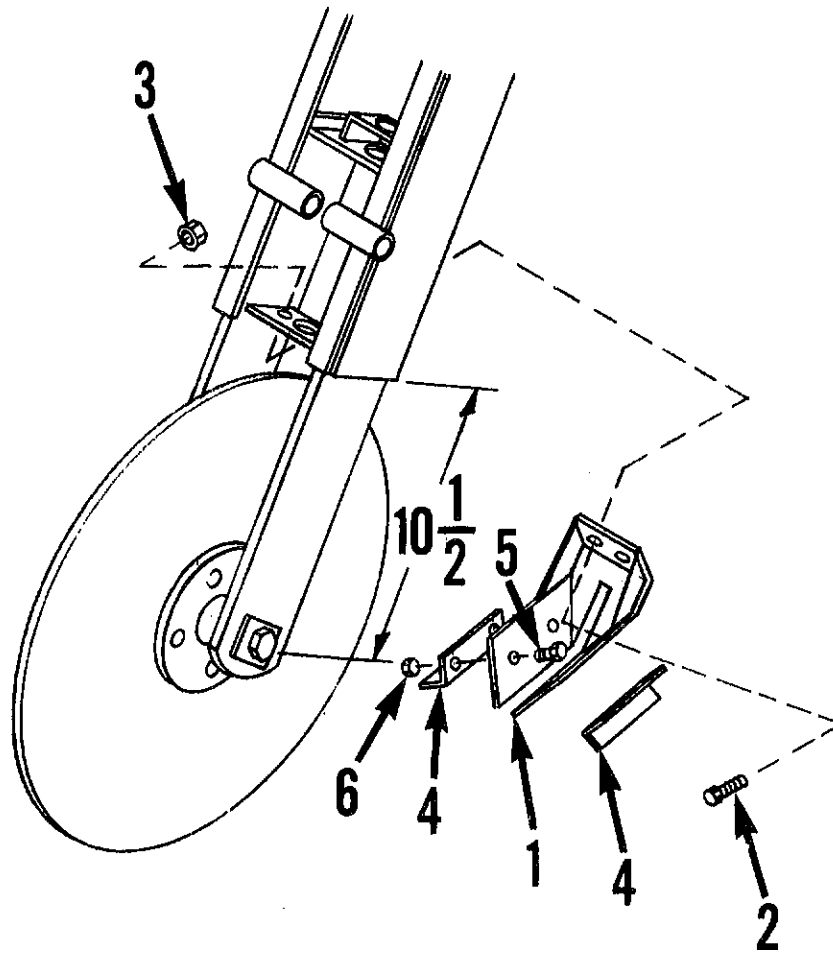
SECTION 5  
COULTER OPTION  
FIGURE 3



DWG. NO. 1652

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	805-001-001	18" Straight Coulters	1
	805-003-561	20" Fluted Coulters	1

SECTION 5  
COULTER SCRAPER  
FIGURE 4

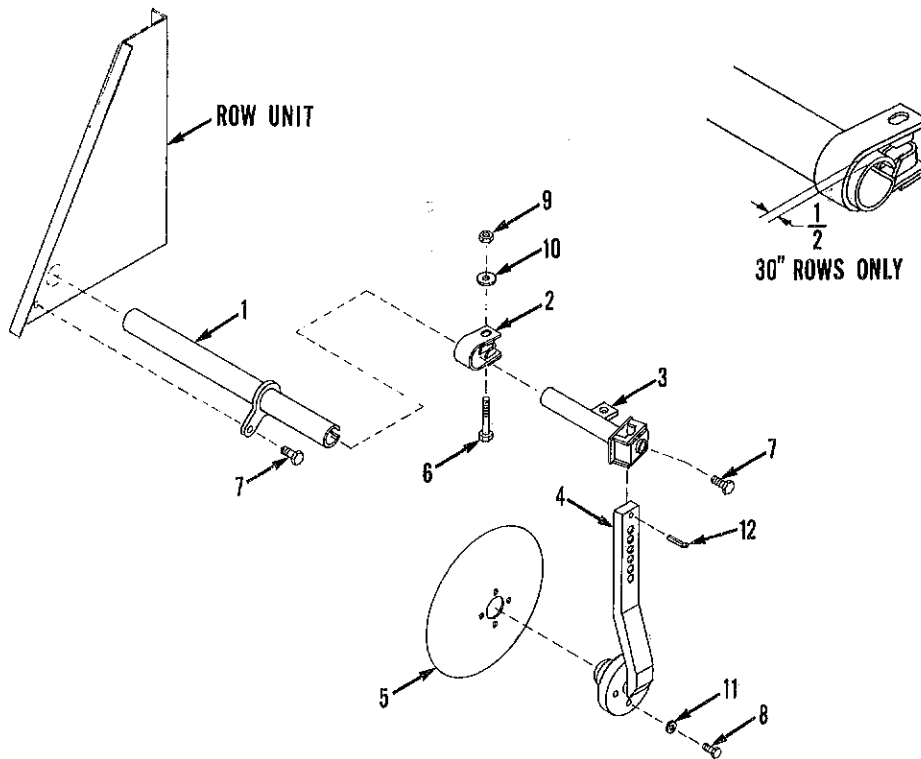


DWG. NO. 1735

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-394	Scraper Weld	1
2	950-002-009	3/8" - 16 UNC x 1" Whiz Bolt	2
3	951-002-003	3/8" - 16 UNC Whiz Nut	2
4	810-002-430	Angle	2
5	950-002-020	1/4" - 20 UNC x 1/2" LG Whiz Lock Bolt	4
6	951-002-001	1/4" - 20 UNC Whiz Lock Nut	4

51 CMG

SECTION 5  
CUTAWAY OPTION  
FIGURE 5

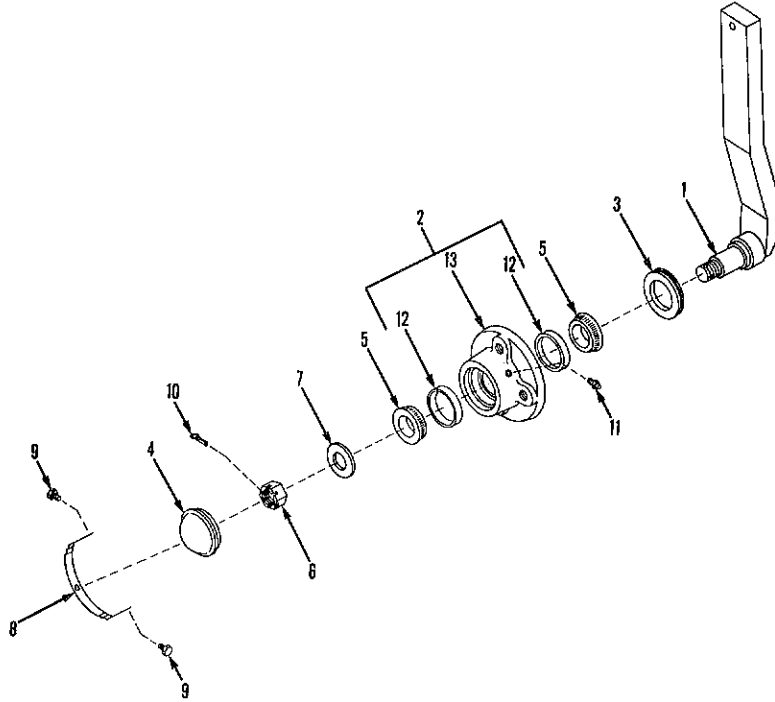


DWG. NO. 1654

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-092	Tube Weld (30 Inch rows)	1
	810-002-279	Tube Weld (36/38 Inch rows)	1
2	810-002-096	Clamp Weld	2
3	810-002-070	Support Weld	2
4	810-002-088	Spindle Assy (see sec. 5 fig. 6)	2
5	805-001-002	Concave Disc	2
6	950-001-174	Hex Bolt 3/4 - 10 NC x 3-1/2 Gr. 5	2
7	950-001-028	Hex Bolt 3/4 - 10 NC x 1-1/2 Gr. 5	3
8	950-001-086	Hex Bolt 1/2 - 20 NF x 1" Gr. 5	8
9	951-005-033	Locknut 3/4 - 10 NC	2
10	952-002-080	3/4 Flatwasher	2
11	952-001-004	1/2 Lockwasher	8



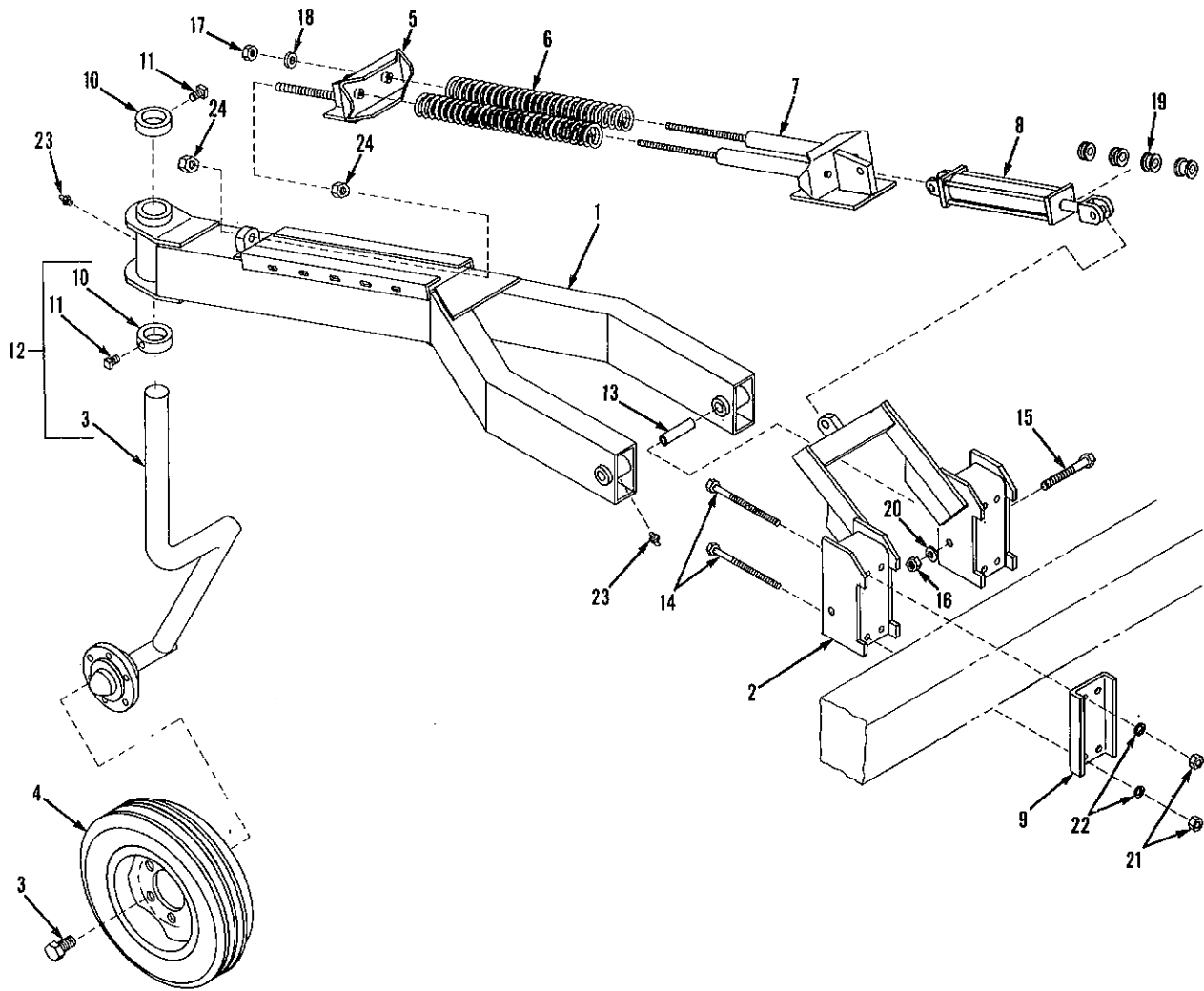
SECTION 5  
SPINDLE ASSEMBLY  
FIGURE 6



DWG. NO. 1695

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-089	Spindle Wheel	1
2	810-002-120	Hub Assy (includes items 12 & 13)	1
3	805-001-103	Grease Seal	1
4	850-001-155	Hub Cap	1
5	850-001-153	Cone	2
6	951-005-002	7/8 Fine THD Slotted Hex Nut	1
7	802-000-007	Special Washer	1
8	810-002-122	Hub Cap Retainer	1
9	950-001-216	1/4 x 3/8 Hex Bolt	2
10	953-001-003	5/32 x 1-1/4 Cotter Pin	1
11	955-001-002	1/4 - 28 UNF Grease Fitting	1
12	850-001-158	Cup	2
13	810-002-121	Hub	1

SECTION 5  
LIFT ASSIST  
FIGURE 7



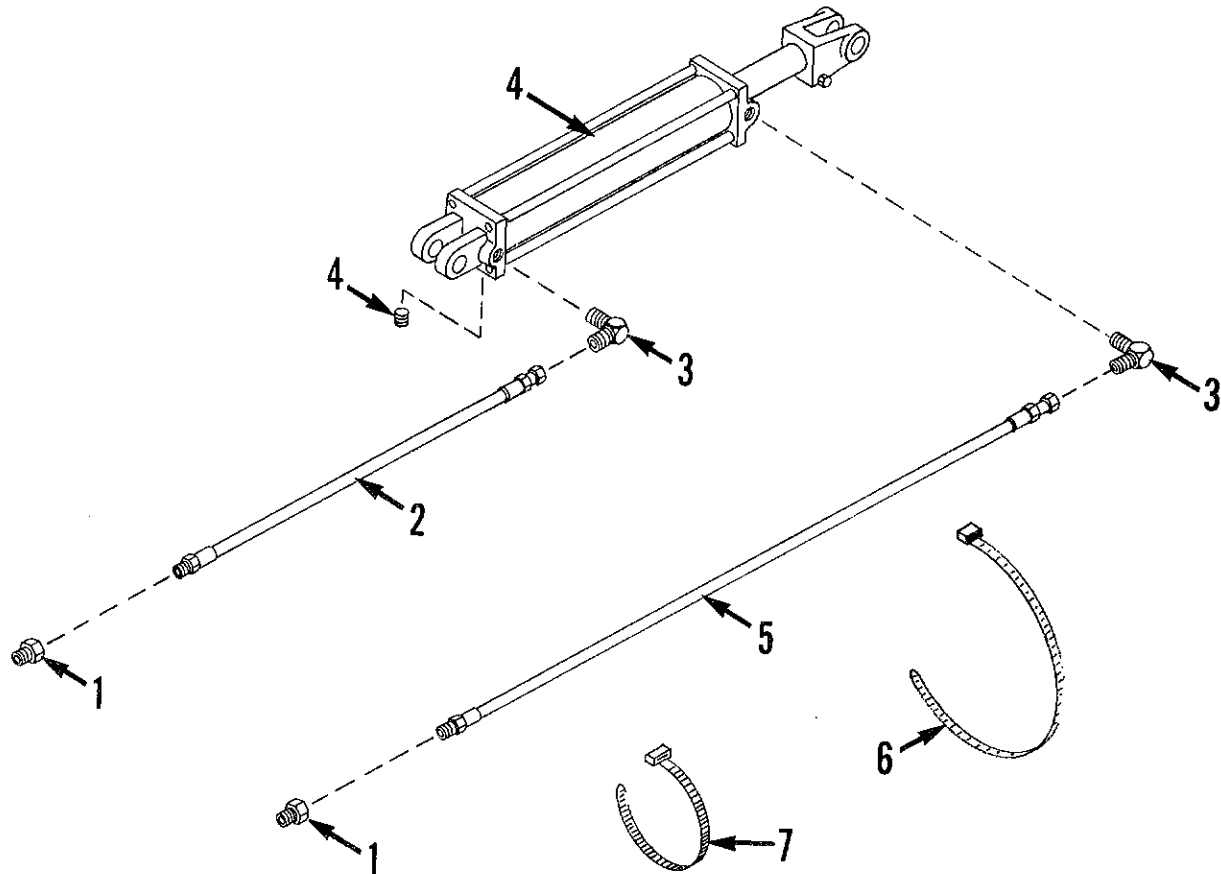
DWG. NO. 1575

LIFT ASSIST

ITEM NO.	PART NO.	DESCRIPTION	QUAN REQ'D
1	810-002-171	Rear Frame Weld	1
2	810-002-181	Front Mast Weld	1
3	805-001-137	Hub And Spindle Assy (See Sec. 4 Fig. 7)	1
4	850-001-568	9.5L x 15 Tire And Rim Assy (See Sec. 4 Fig. 11)	1
5	810-002-189	Anchor Weld	1
6	880-001-071	Compression Spring	2
7	810-002-194	Cylinder Slide Weld	1
8	805-001-974	3 x 8 Command Cylinder (See Sec. 3B Fig. 4)	1
9	810-001-210	Hitch Channel	2
10	805-001-105	Stem Collar	2
11	950-008-009	1/2 - 13 NC x 1" LG Sq. HD Set Screw	2
12	805-001-191	Caster Stem Assy (Includes Items 3, 10 & 11)	1
13	810-002-188	Sleeve	2
14	950-001-151	Hex Bolt 3/4 - 10 NC x 9" LG Gr. 5	8
15	950-001-186	Hex Bolt 1" - 8 NC x 6" LG Gr. 5	2
16	951-001-024	Hex Nut 1" - 8 NC	2
17	951-005-033	Lock Nut 3/4 - 10 NC	2
18	952-002-008	Flatwasher 3/4	2
19	810-001-937	Stroke Limiting Collar Set	1
20	952-001-009	Lockwasher 1"	2
21	951-001-009	Hex Nut 3/4 - 10 NC	8
22	952-001-006	Lockwasher 3/4	8
23	955-001-001	Grease Fitting 1/8 - 27 NPT	3
24	951-001-022	Hex Nut 1-1/2 - 7 NC	2



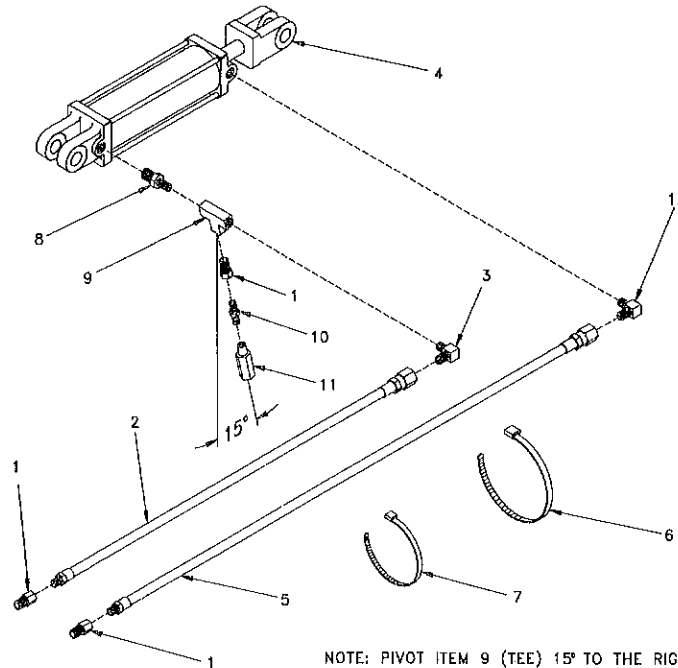
SECTION 5  
HYDRAULIC PLUMBING SINGLE LIFT ASSIST WHEEL  
FIGURE 8



DWG. NO. 220

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	956-004-002	Reducer Bushing, 1/2 - 14 Male NPT to 3/8 - 18 Female NPT	2
2	957-002-015	3/8 Inch Hose Assembly (108 inches)	1
3	956-005-003	90 Degree Elbow, 1/2 - 14 Male NPT to 9/16 - 18 Male 37 Degree JIC	3
4	805-001-974	3 x 8 Cylinder (see sec. 3B fig. 4)	1
5	957-002-016	3/8 Inch Hose Assembly (126 inches)	1
6	921-001-145	21" LG Plastic Cable Tie	1
7	921-001-144	14" LG Plastic Cable Tie	1

SECTION 5  
HYDRAULIC PLUMBING SINGLE LIFT ASSIST WHEEL  
O-RING PORTS  
1991 & LATER  
FIGURE 8B



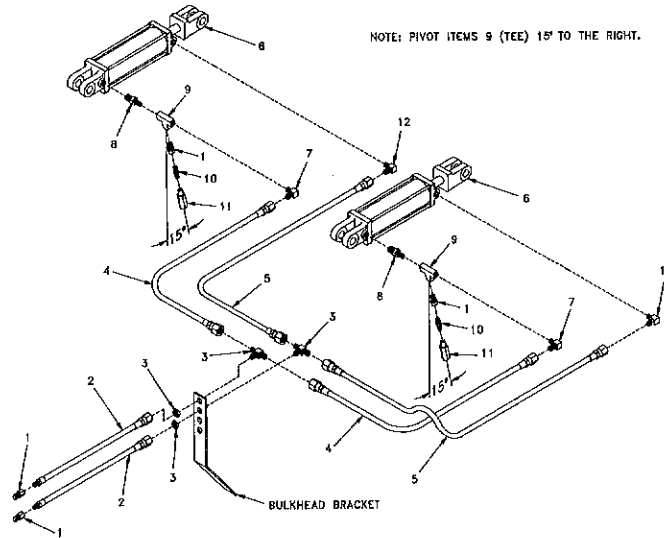
NOTE: PIVOT ITEM 9 (TEE) 15° TO THE RIGHT.

DWG. NO. 2389

ITEM NO.	PART NO.	DESCRIPTION	QTY. REQ'D.
1	956-004-002	Reducer Bushing, 1/2 - 14 Male NPT 3/8 - 18 Female NPT	3
2	957-002-015	3/4 x 108 Inch Long Hose Assembly	1
3	956-005-003	90° Elbow, 1/2 - 14 Male NPT to 9/16 - 18 Male 37° JIC	1
4	80503830	3 x 8 Cylinder 3/4 - 16 O-Ring Ports (see sect. 3C fig. 4) 1991 & Later	1
	805-001-974	3 x 8 Cylinder 1/2 NPT Ports (see sect. 3B fig. 4) 1990 & Earlier 805-001-974 Cylinder No Longer Available. Use 80503830 Cylinder with Item 12, 956-005-001, Qty 1, and Item 8 956-003-020, QTY 1	1
5	957-002-016	3/8 x 126 Inch Long Hose Assembly	1
6	921-001-145	21 Inch Long Plastic Cable Tie	1
7	921-001-144	14 Inch Long Plastic Cable Tie	1
8	956-003-020	Straight Adapter, 3/4 - 16 O-Ring to 1/2 - 14 Male NPT, 1991 & Later	1
	203-51201	Straight Adapter, 1/2 - 14 Male NPT to 1/2 - 14 Male NPT, 1990 & Earlier	1
9	956-007-002	Tee, 1/2 - 14 Female NPT	1
10	956-003-010	Straight Adapter, 3/8 - 18 Male NPT to 3/8 - 18 Male NPT	1
11	956-008-022	Relief Valve, 3/8 - 18 Female NPT	1
12	956-005-001	90° Elbow, 3/4 - 16 O-Ring to 9/16 - 18 Male 37° JIC, 1991 & Later	1
	956-005-003	90° Elbow, 1/2 - 14 Male NPT 70 9/16 - 18 Male 37° JIC, 1990 & Earlier	1



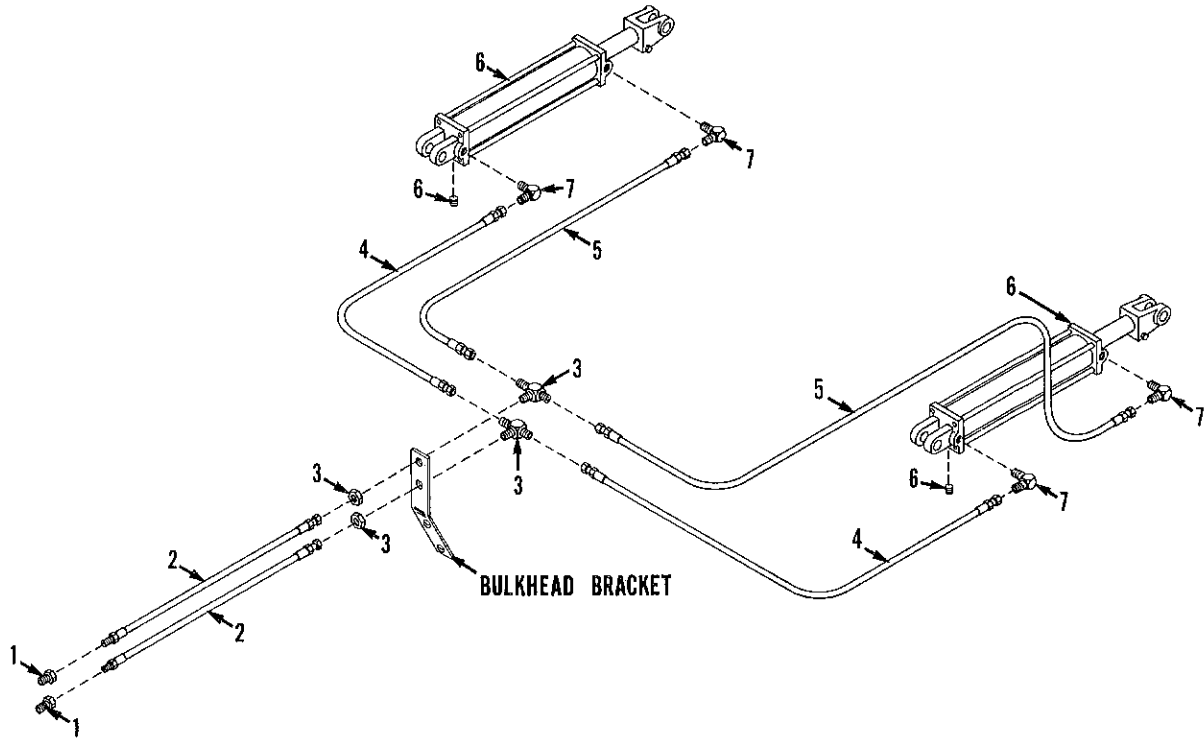
SECTION 5  
16 ROW 30  
DUAL LIFT ASSIST WHEEL  
O-RING PORTS  
1991 & LATER  
FIGURE 9B



DWG. NO. 2388

ITEM NO.	PART NO.	DESCRIPTION	QTY. REQ'D.
1	956-004-002	Reducer Bushing, 1/2 - 14 Male NPT to 3/8 - 18 Female NPT	4
2	957-002-014	3/8 x 48 Inch Long Hose Assembly	2
3	956-007-003	Bulkhead Tee, 9/16 - 18 Male 37° JIC ato 9/16 - 18 Male 37° JIC on run with 9/16 - 18 Make 37° JIC Bulkhead on Branch	2
4	957-001-017	3/8 x 72 Inch Long Hose Assembly	2
5	957-001-058	3/8 x 82 Inch Long Hose Assembly	2
6	80503830	3 x 8 Cylinder 3/4 - 16 O-Ring Ports, (see sect. 3C fig. 4) 1991 & Later	2
	805-001-974	3 x 8 Cylinder 1/2 NPT Ports (see sect. 3B fig. 4) 1990 & Earlier 805-001-974 Cylinder No Longer Available. Use 80503830 Cylinder with Item 12, 956-005-001, QTY 1, and Item 8 956-003-020, QTY 1.	2
7	956-005-003	90° Elbow, 1/2 - 14 Male NPT to 9/16 - 18 Male 37° JIC	2
8	956-003-020	Straight Adapter, 3/4 - 16 O-Ring to 1/2 - 14 Male NPT, 1991 & Later	2
	203-51201	Straight Adapter, 1/2 - 14 Male NPT to 1/2 - 14 Male NPT, 1990 & Earlier	2
9	956-007-002	Tee, 1/2 - 14 Female NPT	2
10	956-003-010	Straight Adapter, 3/8 - 18 Male NPT to 3/8 - 18 Male NPT	2
11	956-008-022	Relief Valve, 3/8 - 18 Female NPT	2
12	956-005-001	90° Elbow, 3/4 - 16 O-Ring to 9/16 - 18 Male 37° JIC, 1991 & Later	2
	956-005-003	90° Elbow, 1/2 - 14 Male NPT to 9/16 - 18 Male 37° JIC, 1990 & Earlier	2

SECTION 5  
 DUAL WHEEL LIFT ASSIST  
 HYDRAULIC PLUMBING  
 FIGURE 9

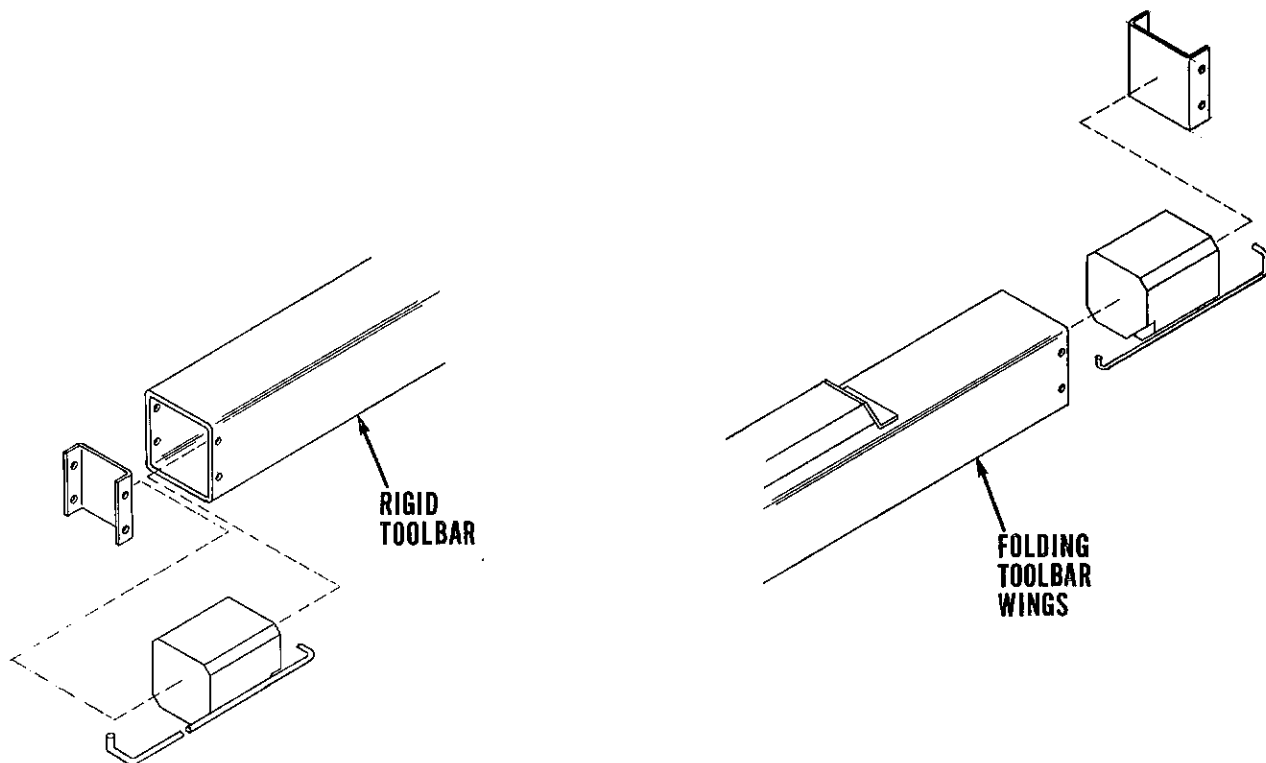


DWG. NO. 231A

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	956-004-002	Reducer Bushing, 1/2 - 14 NPT to 3/8 - 18 Female NPT	2
2	957-002-014	3/8 x 48" LG Hose Assembly	2
3	956-007-003	Bulkhead Tee, 9/16 - 18 Male 37 Degree JIC to 9/16 - 18 Male 27 Degree JIC On Run With 9/16 - 18 Male 37 Degree JIC Bulkhead On Branch	2
4	957-001-017	3/8 x 72" LG Hose Assembly	1
5	957-001-058	3/8 x 82" LG Hose Assembly	2
6	805-001-974	3 x 8 Cylinder (see sec. 3B fig. 4)	2
7	956-005-003	90 Degree Elbow, 1/2 - 14 Male NPT to 9/16 - 18 Male 37 Degree JIC	4



**SECTION 5  
CONCRETE BLOCKS  
FIGURE 10**



DWG. NO. 1666

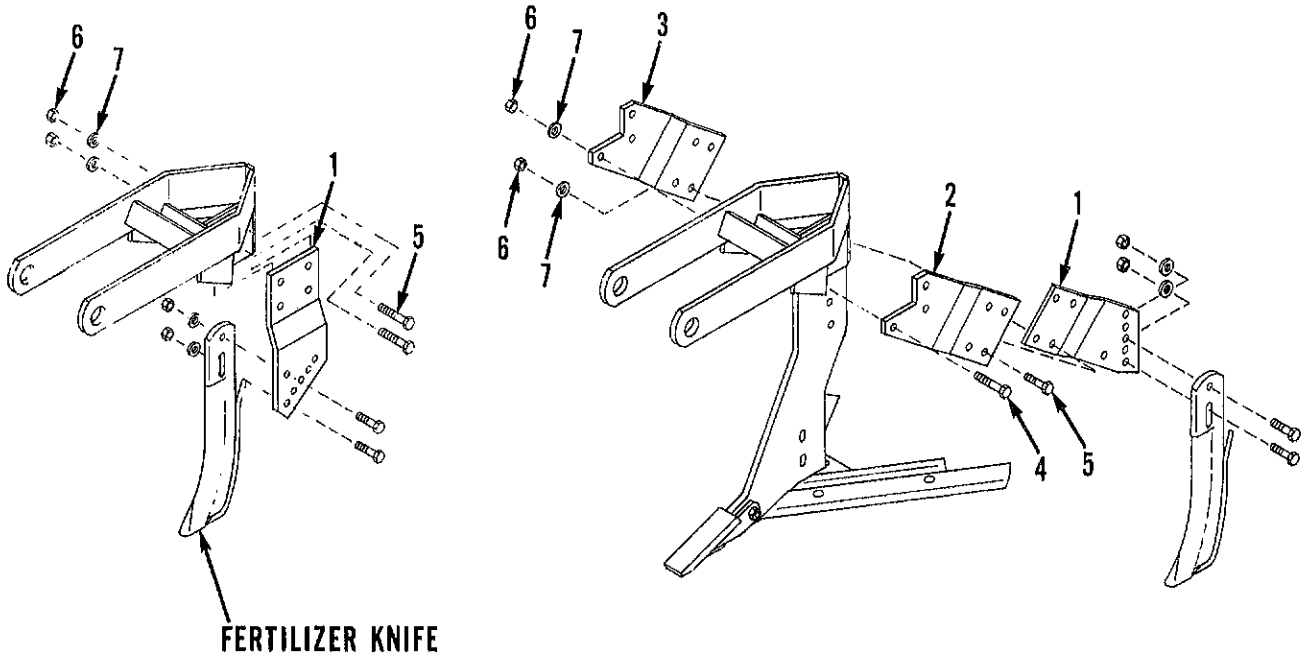
ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-001-176	Concrete Blocks	

**QUANTITY REQUIRED**

RIGID TOOLBAR		FOLDING TOOLBAR	
4 Row 36 - 38 Inch Rigid	= 21	8 Row 30 Inch Folding	= 12
6 Row 30 Inch Rigid	= 25	8 Row 36 - 38 Inch Folding	= 16
6 Row 36 - 38 Inch Rigid	= 31	12 Row 30 Inch Folding	= 20
8 Row 30 Inch Rigid	= 32	12 Row 36 - 38 Inch Folding	= 26
8 Row 36 - 38 Inch Rigid	= 41	16 Row 30 Inch Folding	= 28



SECTION 5  
 ANHYDROUS KNIFE HOLDER  
 FIGURE 11

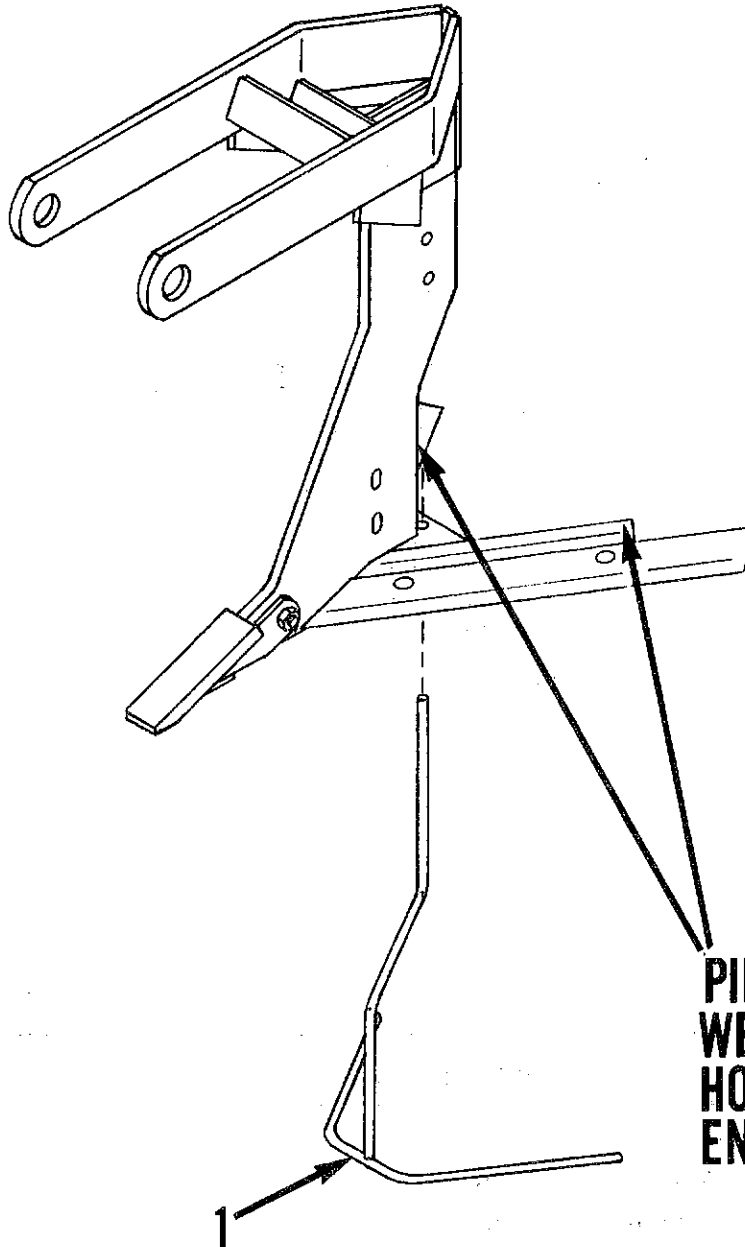


DWG. NO. 1663

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-256	Side Plate	1
2	810-002-258	LH Upper Side Plate (with shank only)	1
3	810-002-257	RH Upper Side Plate (with shank only)	1
4	950-001-159	Hex Bolt 1/2 - 13 UNC x 2-1/2 Gr. 5 (with shank only)	3
5	950-001-120	Hex Bolt 1/2 - 13 UNC x 1-3/4 Gr. 5	4
6	951-001-007	Hex Nut 1/2 - 13 UNC (with shank)	7
	951-001-007	Hex Nut 1/2 - 13 UNC (without shank)	4
7	952-001-004	1/2 Lockwasher (with shank)	7
	952-001-004	1/2 Lockwasher (without shank)	4



SECTION 5  
LIQUID FERTILIZER PIPE  
FIGURE 12

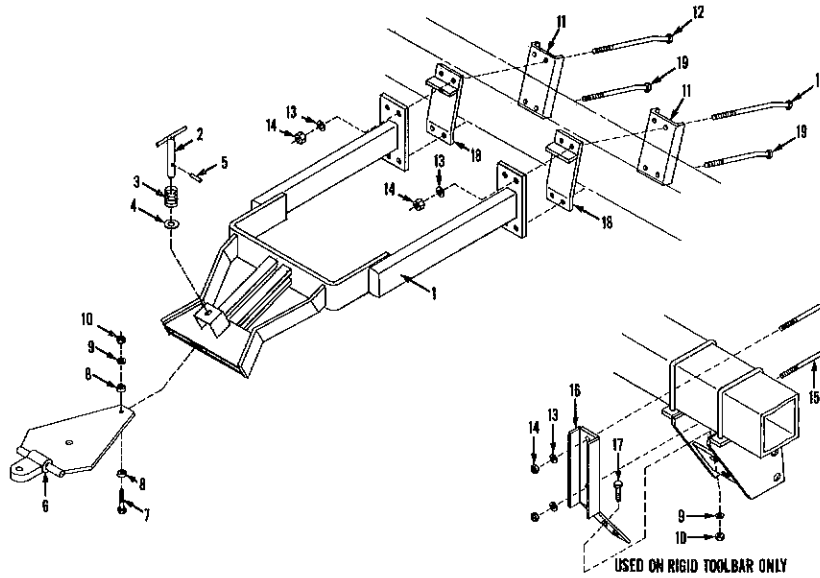


PIPE TO BE TACK  
WELDED TO SHARE  
HOLDER ON EACH  
END AND SHANK

DWG. NO. 1668

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-002-340	Fertilizer Pipe Weld	1

SECTION 5  
ANHYDROUS HITCH WITHOUT LIFT ASSIST  
FIGURE 13



DWG. NO. 195

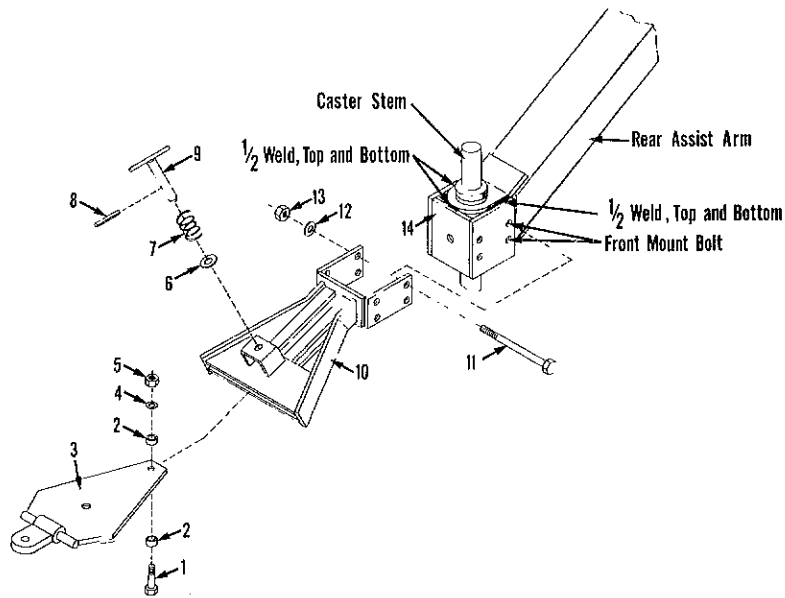
DWG. NO. 1675

SERIES 5

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-001-206	Anhydrous Hitch Weld	1
2	810-002-522	Handle Weld	1
3	810-001-527	Spring	1
4	952-002-010	1 Inch Wrought Flat Washer	1
5	953-003-003	1/4 x 1-3/4 Inch Long Spring Pin	1
6	810-001-518	Hitch Plate Weld	1
7	950-001-008	5/8 x 3 Inch Long Hex Head Bolt Grade No. 5	1
8	810-001-526	Collar	2
9	952-001-005	5/8 Inch Lockwasher	AR
10	951-001-008	5/8 Inch Hex Nut	AR
11	810-001-210	Hitch Channel	2
12	810-002-443	12" Bent Bolt	4
13	952-001-006	3/4 Inch Lockwasher	AR
14	951-001-009	3/4 Inch Hex Nut	AR
15	875-001-038	3/4 U-Bolt	2
16	810-002-212	Support Weld	2
17	950-001-147	5/8 - 11 UNC x 2-1/2 Hex HD Bolt GR. 5	2
18	810-002-442	Angle Support Weld	2
19	810-002-444	10" Bent Bolt	4

NOTE: On units with automatic reset shanks, delete items 12, 18, 19; add 8 ea. 950-001-151 3/4 x 9 bolt.

SECTION 5  
 ANHYDROUS HITCH WITH SINGLE LIFT ASSIST  
 FIGURE 14

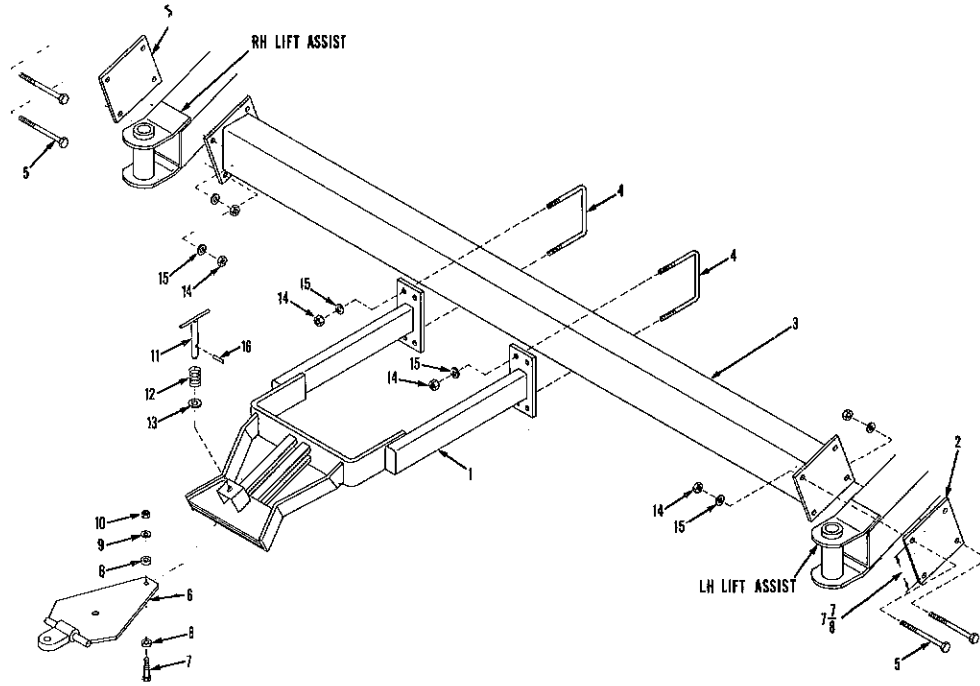


DWG. NO. 1051

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	950-001-141	5/8 - 11 NC x 3" LG Hex HD Bolt Gr. 5	1
2	810-001-526	Collar	2
3	810-001-518	Hitch Plate Weld	1
4	952-001-005	5/8 Lockwasher	1
5	951-001-008	5/8 - 11 NC Hex Nut	1
6	952-002-010	1" Flatwasher	1
7	810-001-527	Spring	1
8	953-003-003	1/4 x 1-3/4 LG Spring Pin	1
9	810-001-522	Handle Weld	1
10	810-001-580	Anhydrous Hitch Weld	1
11	950-001-151	3/4 - 10 NC x 9" LG Hex HD Bolt Gr. 5	4
12	952-001-006	3/4 Lockwasher	4
13	951-001-009	3/4 - 10 NC Hex Nut	4
14	810-001-578	Mount Weld	1

51070

**SECTION 5  
ANHYDROUS HITCH (WITH DUAL LIFT ASSIST)  
FIGURE 15**

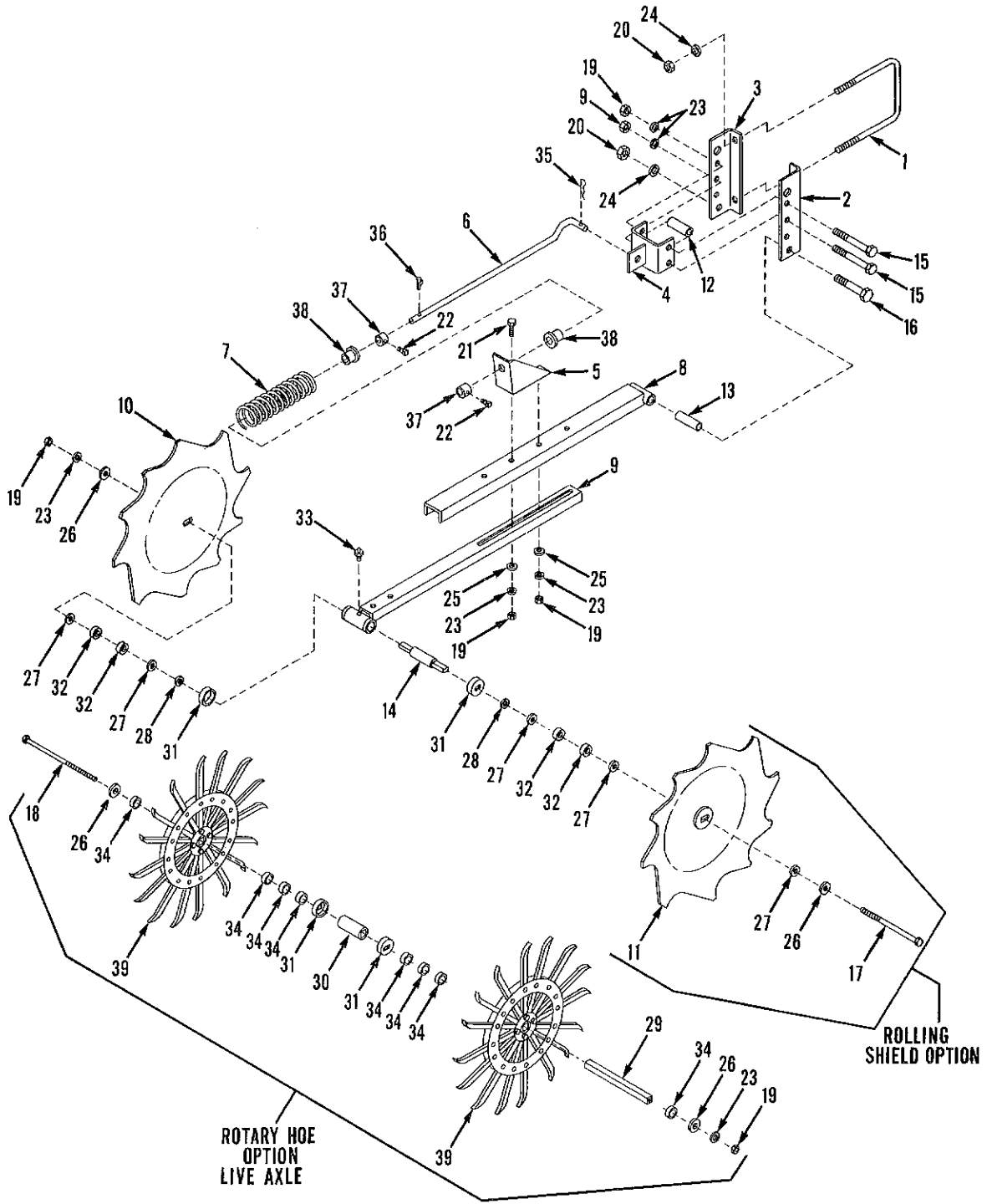


DWG. NO. 1667

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	810-001-206	Anhydrous Hitch Weld	1
2	810-002-334	Mount Plate	2
3	810-002-328	Cross Tube	1
4	875-001-035	3/4 U-Bolt	4
5	950-001-229	3/4 - 10UNC x 8 Hex Bolt Gr. 5	8
6	810-001-518	Hitch Plate Weld	1
7	950-001-008	5/8 - 11UNC x 3 Hex Bolt Gr. 5	1
8	810-001-526	Collar	2
9	952-001-005	5/8 Lockwasher	1
10	951-001-008	5/8 - 11UNC Hex Nut	1
11	810-001-522	Handle Weld	1
12	810-001-527	Spring	1
13	952-002-010	1" Flat Washer	1
14	951-001-009	3/4 - 10UNC Hex Nut	16
15	952-001-006	3/4 Lockwasher	16
16	953-003-003	1/4 x 1-3/4 Spring Pin	1



SECTION 5  
ROLLING SHIELD AND ROTARY HOE WHEEL  
FIGURE 16



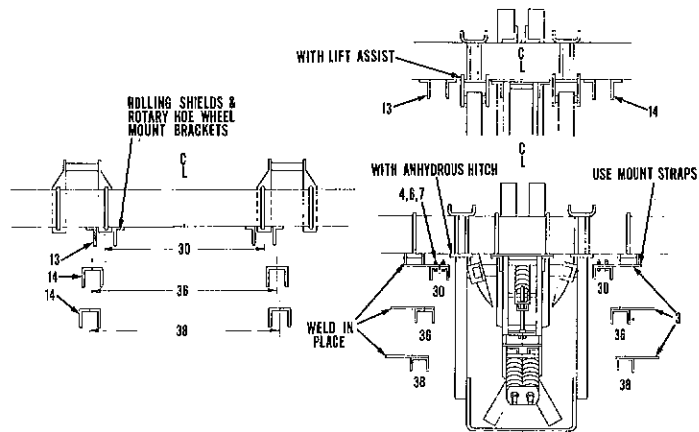
DWG. NO. 1855

**ROLLING SHIELD AND ROTARY HOE WHEEL**

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	805-001-332	5/8 X 7-5/8 Inch Center U-Bolt	2
2	810-002-364	Right Mount Bracket	1
3	810-002-363	Left Mount Bracket	1
4	810-001-487	Bracket Weld	1
5	810-002-497	Spring Bracket	1
6	810-001-500	Rod	1
7	850-002-403	Compression Spring	1
8	810-002-357	Outer Channel Weld	1
9	810-001-179	Inner Channel Assembly (sec. 5 fig. 17)	1
10	810-001-499	Left Rolling Shield Weld	1
11	810-001-498	Right Rolling Shield Weld	1
12	810-001-490	Spacer	1
13	810-002-361	Tube	1
14	810-001-590	Axle (rolling shield option only)	1
15	950-001-060	1/2 - 13NC x 5 LG Hex Head Bolt; Grade 5	2
16	950-001-131	5/8 - 11NC x 4-1/2 LG Hex Head Bolt; Grade 5	1
17	950-001-259	1/2 - 13NC x 8 LG Hex HD Bolt; Gr. 5 (rolling shield option only)	1
18	950-001-274	1/2 - 13NC x 10 LG Hex HD Bolt; Gr. 5 (rotary hoe option only)	1
19	951-001-007	1/2 - 13NC Hex Nut	5
20	951-001-008	5/8 - 11NC Hex Nut	5
21	950-001-125	1/2 - 13NC x 1-1/2 LG Hex HD Bolt; Grade 5	2
22	950-008-008	1/2 - 13NC x 3/4 LG Sq. HD Set Screw	2
23	952-001-004	1/2 Inch Lockwasher	5
24	952-001-005	5/8 Inch Lockwasher	5
25	952-002-005	1/2 Inch Flatwasher	2
26	952-004-059	9/16 x 1-3/4 x .250 Flat Washer	2
27	952-001-010	1 Inch Flatwasher (rolling shield option only)	5
28	952-003-005	1 Inch Flatwasher SAE (rolling shield option only)	2
29	810-002-462	Axle Tube (rotary hoe option only)	1
30	810-002-461	Sleeve Axle Bearing (rotary hoe option only)	1
31	515-301-012	Dust Cap	2
32	810-001-591	Spacer (rolling shield option only)	4
33	955-001-002	1/4 - 28 UNF Grease Fitting	1
34	810-002-463	Axle Spacer (rotary hoe option only)	8
35	953-005-002	.178 x 3-9/16 Hair Pin Cotter	1
36	953-001-010	1/4 x 1-1/2 Cotter Pin	1
37	828-001-005	Lock Collar	2
38	810-001-493	Spring Cap Weld	2
39	810-002-467	Wheel Assembly	2

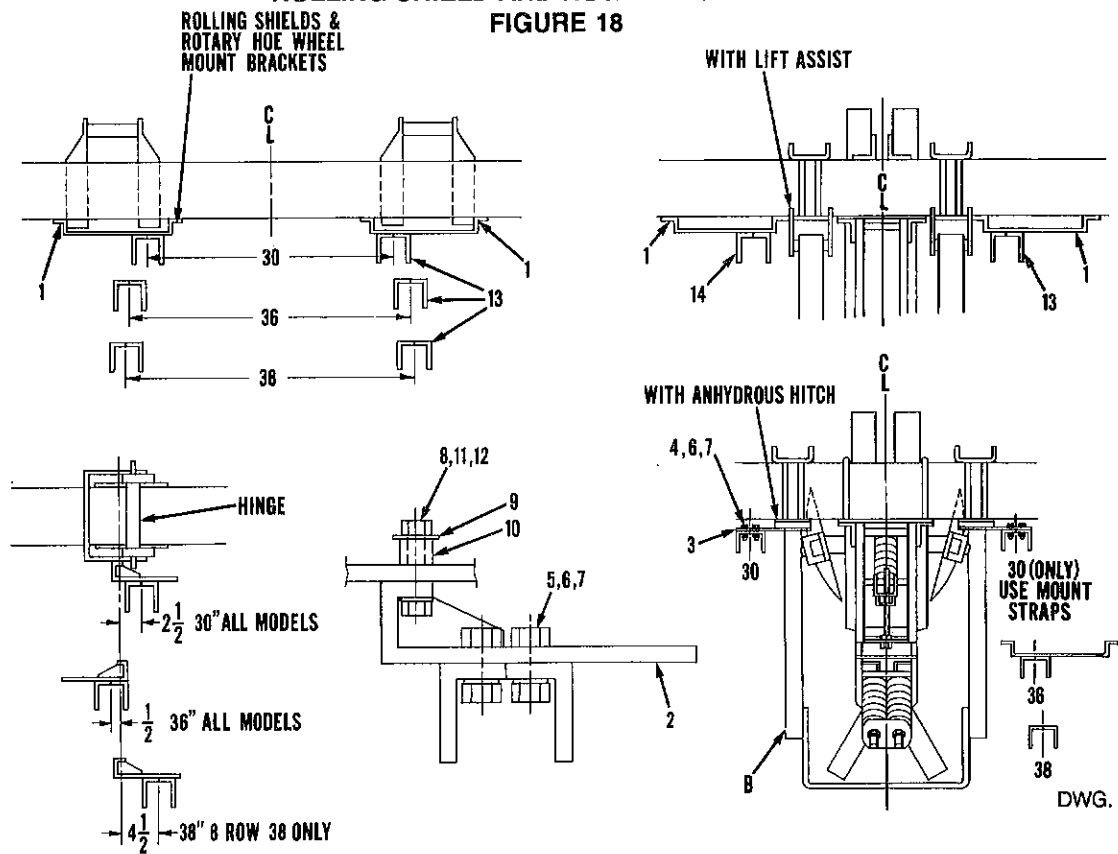


**SECTION 5**  
**RIGID TOOLBAR MOUNTING**  
**ROLLING SHIELD AND ROTARY HOE WHEEL MOUNTING**  
**FIGURE 17**



DWG. NO. 1765

**SECTION 5**  
**FOLDING TOOLBAR MOUNTING**  
**ROLLING SHIELD AND ROTARY HOE WHEEL**  
**FIGURE 18**



DWG. NO. 1766

5000

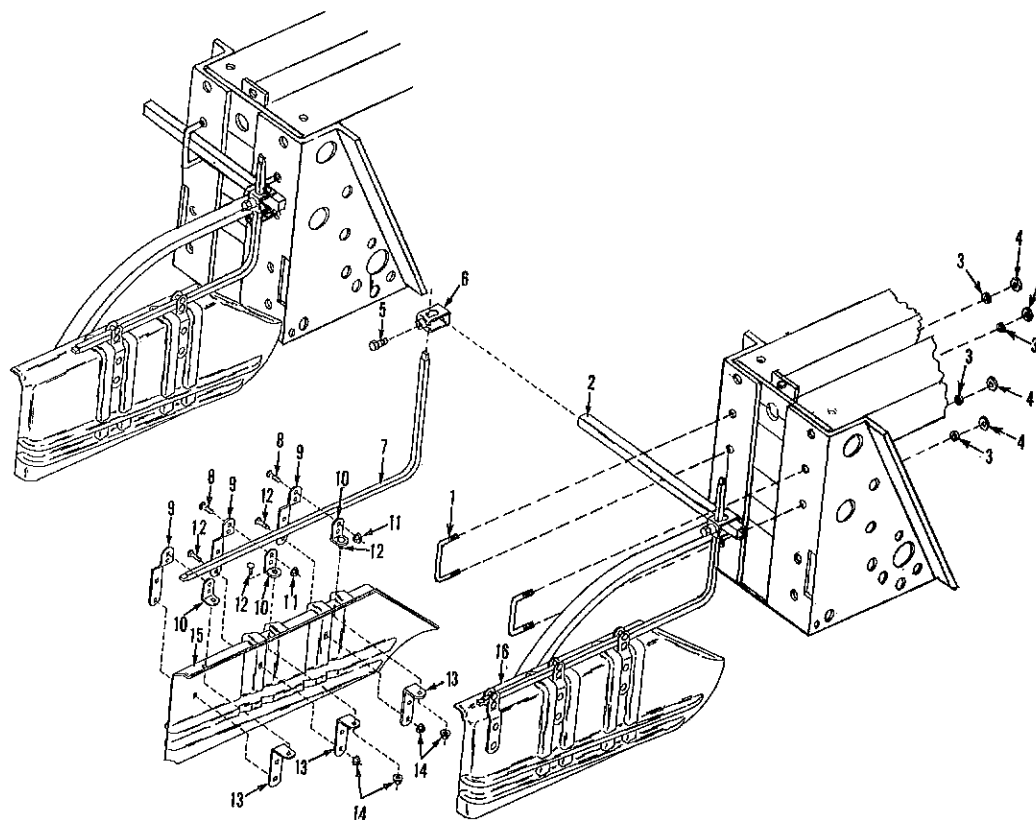


**RIGID AND FOLDING TOOLBAR MOUNTING**

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQD.
1	810-002-310	Mount Plate	2
2	810-002-311	Mount Bracket Weld	2
3	810-001-551	Shield Mount Straps	4
4	950-003-021	5/8 - 11 NC x 1-1/4 LG Carriage Bolt	8
5	950-001-087	5/8 - 11 NC x 1-1/2 LG Hex Nut	16
6	952-001-005	5/8 Lockwasher	A/R
7	951-001-008	5/8 - 11 NC Hex Nut	A/R
8	950-001-125	1/2 - 13 NC x 1-1/2 LG Hex Bolt (1987 and earlier)	4
	950-001-128	3/4 - 10 UNC x 1-1/2 LG Hex Bolt (1989 and later)	4
9	952-002-005	1/2 Flat Washer (1987 and earlier)	2
	952-002-008	3/4 Flat Washer (1989 and later)	2
10	803-001-145	Bushing (1987 and earlier)	2
	810-002-420	Bushing (1989 and later)	2
11	952-001-004	1/2 Lockwasher (1987 and earlier)	4
	952-001-006	3/4 Lockwasher (1989 and later)	4
12	951-001-007	1/2 - 13 NC Hex Nut (1987 and earlier)	4
	951-001-009	3/4 - 10 UNC Hex Nut (1989 and later)	4
13	810-002-363	Left Mount Bracket	A/R
14	810-002-364	Right Mount Bracket	A/R



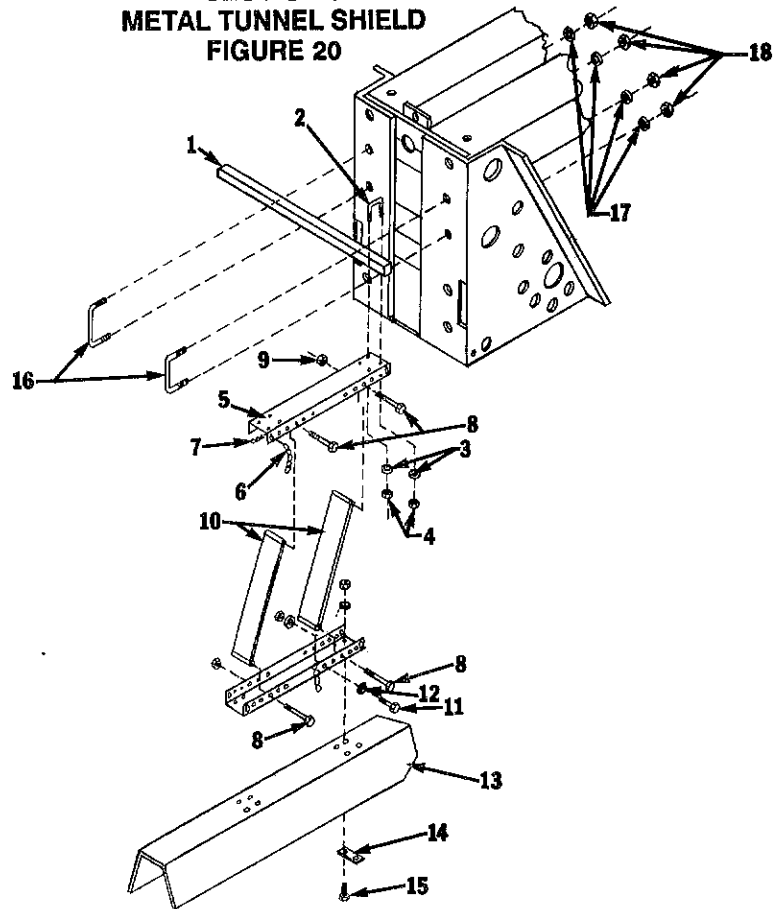
SECTION 5  
PLASTIC SHIELD  
FIGURE 19



DWG. NO. 1939

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQD.
1	810-002-216	1/2 X 2 Center U-Bolt	2
2	810-001-879	Mount Tube	1
3	952-001-004	1/2 Lockwasher	4
4	951-001-007	1/2 - 13 UNC Hex Nut	4
5	950-001-166	3/4 - 10 UNC x 2 Hex HD Bolt Gr. 5	2
6	810-001-884	Clamp Weld	2
7	810-001-876	Shield Rod	2
8	950-003-009	3/8 - 16 UNC x 1-3/4 Carr. Bolt Gr. 5	12
9	810-001-882	Outside Mount Bracket	6
10	810-001-881	Mount Bracket	6
11	951-002-003	3/8 - 16 UNC Whiz Lock Nut	12
12	950-003-004	5/16 - 18 UNC x 1" Carr. Bolt Gr. 5	18
13	810-001-880	Inside Mount Bracket	6
14	951-002-002	5/16 - 18 UNC Whiz Lock Nut	18
15	810-001-834	Right Plastic Shield	1
16	810-001-835	Left Plastic Shield	1

SECTION 5  
METAL TUNNEL SHIELD  
FIGURE 20

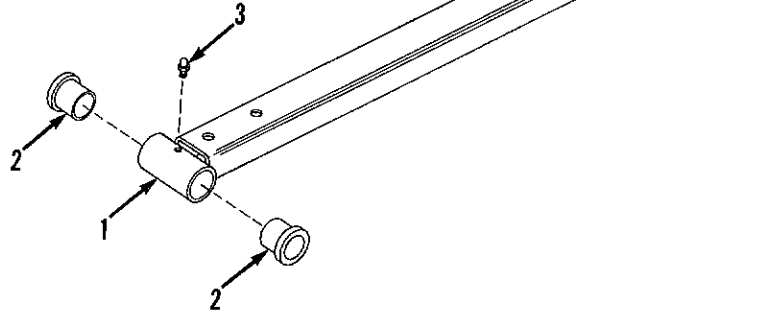


DWG. NO. 1938

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQD.
1	810-001-647	Tunnel Mount Weld	1
2	810-001-650	3/8 x 1-7/8 Center U-Bolt	4
3	952-001-007	3/8 Lockwasher	18
4	951-001-005	3/8 - 16 UNC Hex Nut	18
5	810-001-640	Tunnel Channel	2
6	810-001-174	Chain	2
7	953-005-002	.178 x 3-9/16 Hair Pin Cotter	2
8	950-001-124	1/2 - 13 UNC x 4 Hex HD Bolt Gr. 5	8
9	951-005-023	1/2 - 13 UNC Mac. Lock Nut	8
10	810-001-641	Pivot Strap Weld	4
11	950-001-105	3/8 - 16 UNC x 1" Hex HD Bolt Gr. 5	2
12	952-002-003	3/8 Flatwasher	2
13	810-001-648	Tunnel	2
14	810-001-649	Reinforcement Strap	4
15	950-003-029	3/8 - 16 UNC x 1" Carr. Bolt	8
16	810-002-216	1/2 x 2 Center U-Bolt	2
17	952-001-004	1/2 Lockwasher	4
18	951-001-007	1/2 - 13 UNC Hex Nut	4

5000

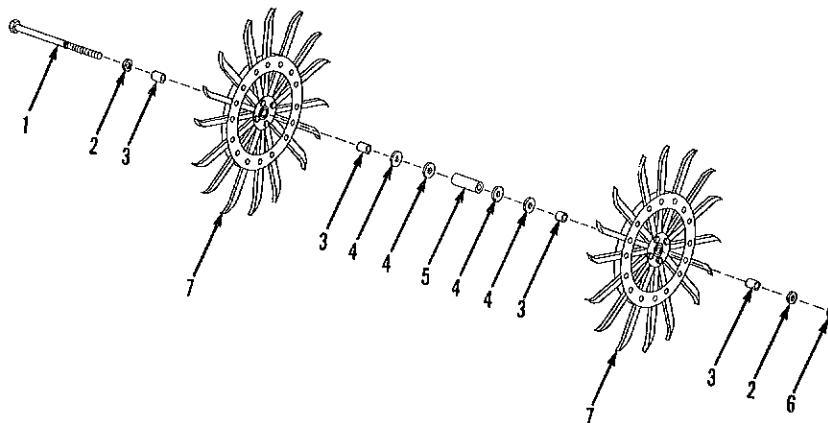
**SECTION 5  
INNER CHANNEL ASSEMBLY  
FIGURE 21**



DWG. NO. 1697

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQD.
1	810-001-063	Inner Channel Weld	1
2	515-301-004	Bronze Bearing	2
3	955-001-002	1/4 - 28 Grease Fitting	1

**SECTION 5  
ROTARY HOE WHEEL 87 AND EARLIER  
FIGURE 22**



DWG. NO. 2002

ITEM NO.	PART NO.	DESCRIPTION	QUAN. REQD.
1	950-001-178	5/8 - 11 NC x 10" LG Hex Bolt Gr. 5	1
2	952-001-005	5/8 Lockwasher	2
3	850-002-446	Spacer	4
4	952-002-007	5/8 Flatwasher	4
5	810-002-362	Inner Tube	1
6	951-001-008	5/8 - 11 NC Hex Nut	1
7	875-001-133	Wheel Assembly	2

500ms