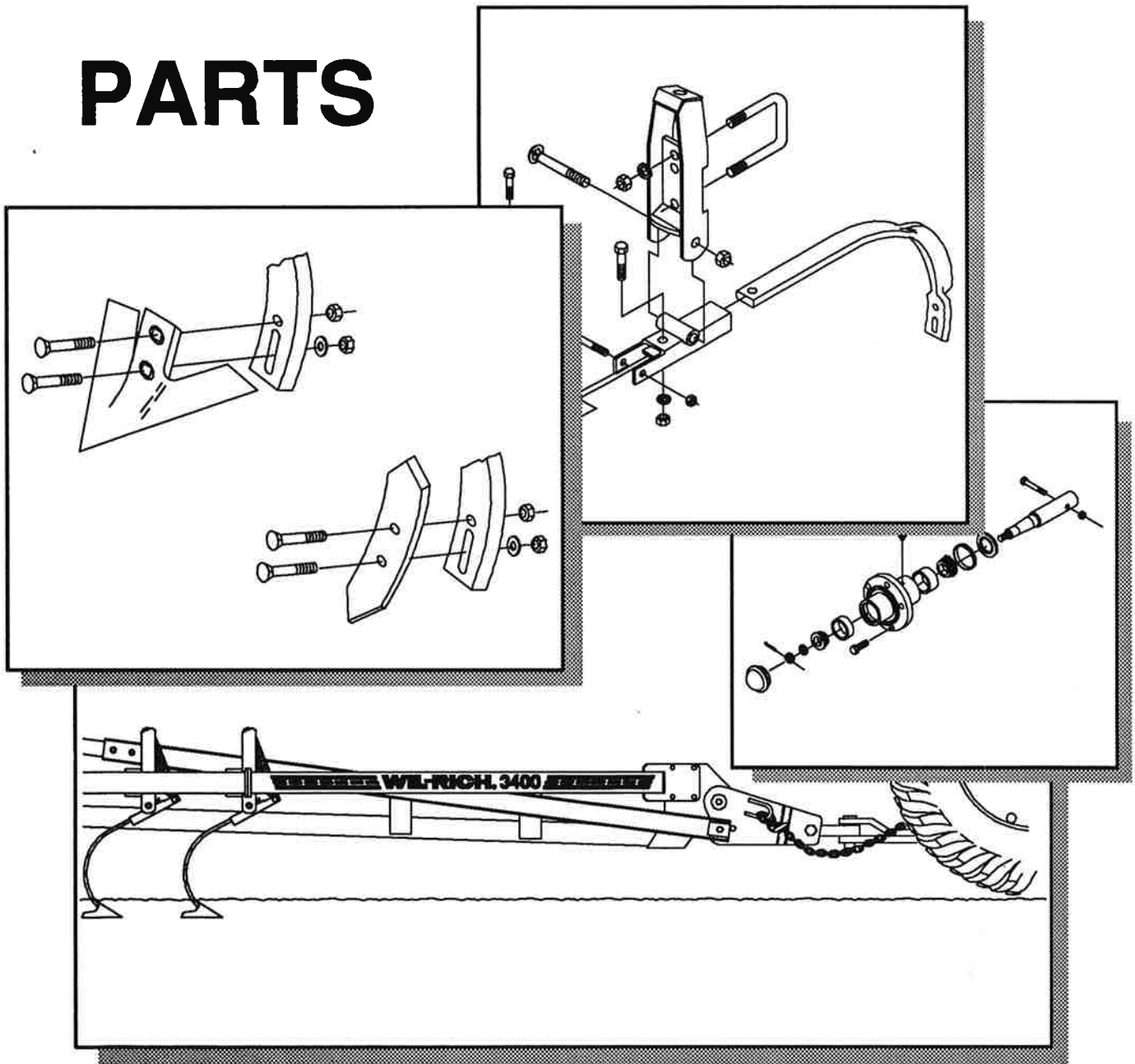




WIL-RICH®

3411, 3420 & 3450 FIELD CULTIVATOR

PARTS



PRINTED IN USA (74153) J/M-1M 01/92

HUTCHINSON WIL-RICH
MANUFACTURING COMPANY
P.O. BOX 1030 WAHPETON, ND 58074
(701) 642-2621

ORIENTATION

Any reference to left (L) or right (R) sides or components is to be understood as being viewed from behind the implement and looking forward.

PARTS BOOK REVISION

When changes to the implement make it necessary, revised or additional pages will be issued with the same page number as those they replace. The additional pages will be given a page number with a letter suffix denoting the location of the new page (23A, 36B, etc.). Consecutive suffix letters would be used if more than one page is to be added to one location (23A, 23B, etc.). The revised or additional pages will also carry the machine name and the issue date to assist in identifying the book to which the parts pages apply. Revised parts book pages must be inserted into the parts book as soon as they are received, failure to do so will lead to confusion and defeat the purpose of both the books and the inserts.

SERIAL NUMBER BREAK

Every implement has a serial number located on the body of the frame. These serial numbers are consecutively assigned to the implements as they are manufactured. To aid in part ordering, we reference the serial number at the point the change occurred to provide an accurate means of determining the proper parts.

MODIFICATIONS

It is the policy of Wil-Rich Operations to improve its products whenever possible and practice to do so. We reserve the right to make changes, improvements, and modifications at any time without incurring the obligation to make such changes, improvements and modifications on any equipment sold previously.

ABBREVIATIONS

ASSY	Assembly
BLD	Blade
BRKT	Bracket
CTR	Center
GR	Grade of Bolt
HD	Heavy Duty
HDWE	Hardware
HYD	Hydraulic
LH	Left Hand Thread
MTG	Mounting
NC	National Coarse Thread
NF	National Fine Thread
NPT	National Pipe Thread
RH	Right Hand
SS	Screw Stop
TA	Tandem
TBP	Top By-Pass

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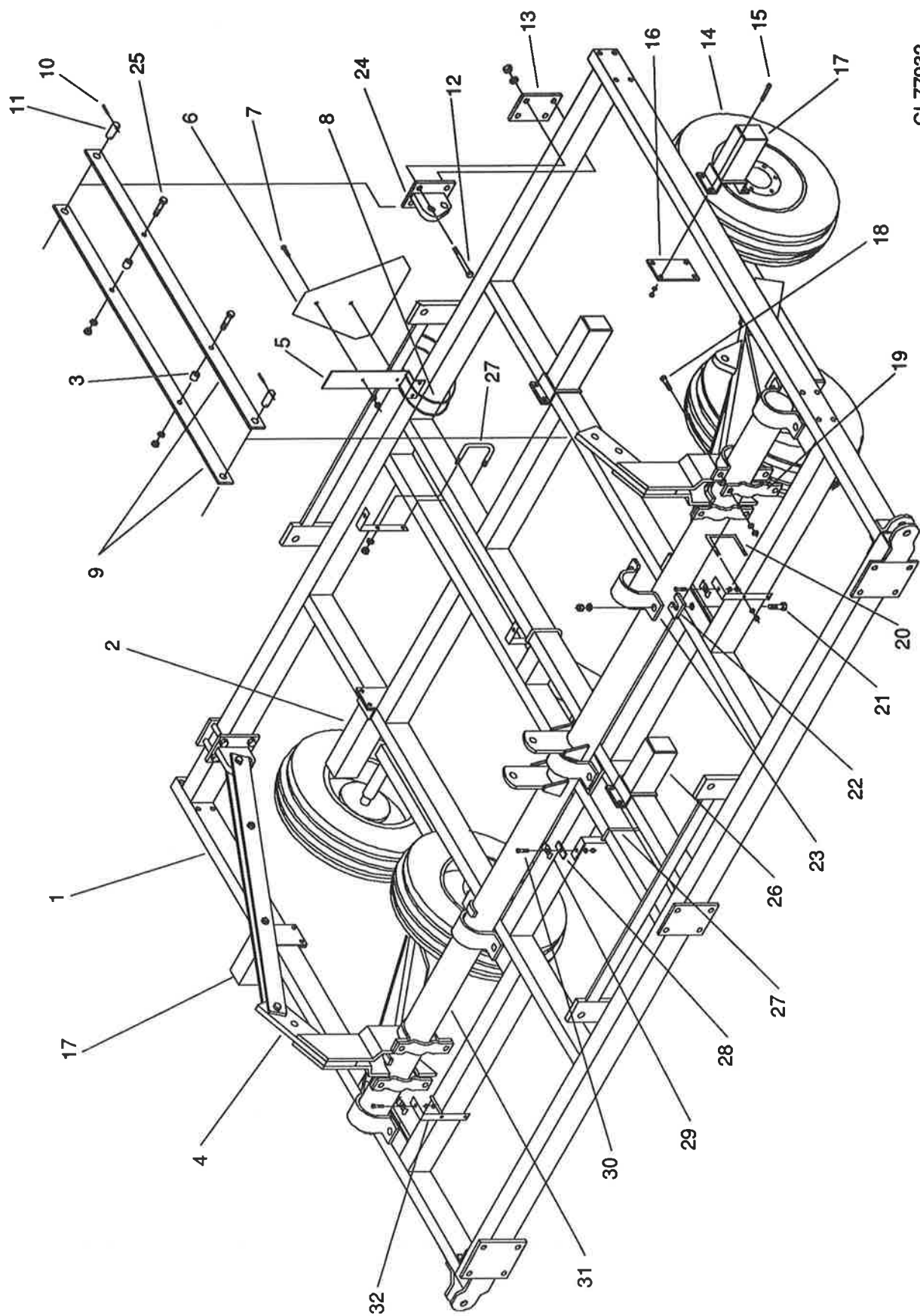
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3420 MAIN FRAME



CI-77932

ITEM	PART NO.	DESCRIPTION
1	48498	3420 Main Frame
2	48536	20" Wheel Well Stub
3	48672	Bushing (.656ID x 1"OD x 1.06 Long)
4	48506	9.3 Main Axle Mast
5	41359	SMV Bracket
6	30651	SMV Emblem
7	88351	1/4NC x 3/4 Bolt
8	33096	Tie Wrap
9	53487	Mast Strap
10	42484	Cylinder Lock Pin
11	49874	Pin
12	88305	3/4NC x 5 GR 5 Bolt
13	48966	Back-Up Plate
14	13142	95L x 15 Wheel Assembly
15	88475	1/2NC x 1-1/2 GR5 Bolt
16	26817	Backing Plate
17	26815	8" Saddle Stub
18	88404	3/4NC x 2-1/2 GR 5 Bolt
19	21375	Axle Saddle Assembly
20	88514	3/8NC x 4 x 3-3/4 U-Bolt
21	88495	7/8NC x 2-1/2 GR5 Bolt

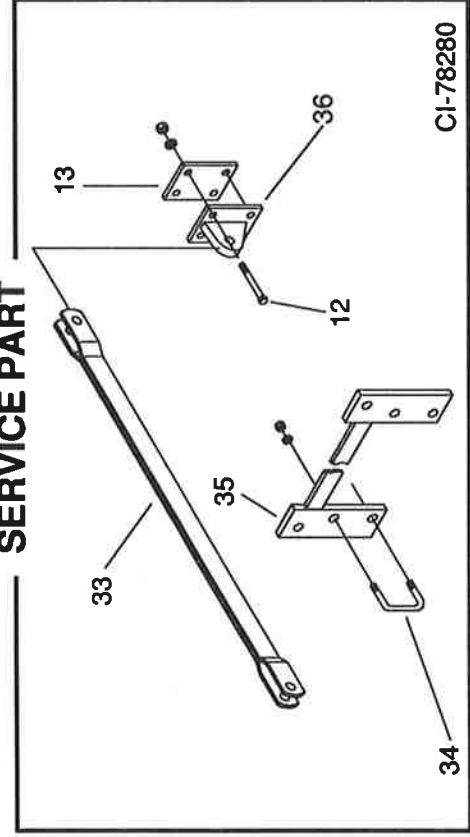
ITEM	PART NO.	DESCRIPTION
22	10176	Shim
23	10399	Axle Cap
24	54438	Mast Anchor
25	88409	5/8NC x 2-1/2 GR 5 Bolt
26	26815	8" Saddle Stub
27	88515	3/8NCx4x2-3/4 U-Bolt
28	15543	Base Plate
29	13215	Tube Clamp
30	88553	3/8NC x 1-1/2 GR 5 Bolt
31	48918	3420 Main Axle Assembly (See page 55 for walker.)
32	13270	Pole Tube Bracket
33	48509	Main Mast Rod (Before Serial #439550)
34	48453	5/8NC x 4 x 4-1/2 U-Bolt
35	48501	3420 Wing Anchor (Before Serial #438000)
36	48508	Mast Anchor (Before Serial #439844)

NOTE: STANDARD NUTS AND LOCK WASHERS ARE NOT CALLED OUT. ANYTHING OTHER THAN STANDARD WILL BE CALLED OUT.

STANDARD NUTS AND LOCK WASHERS

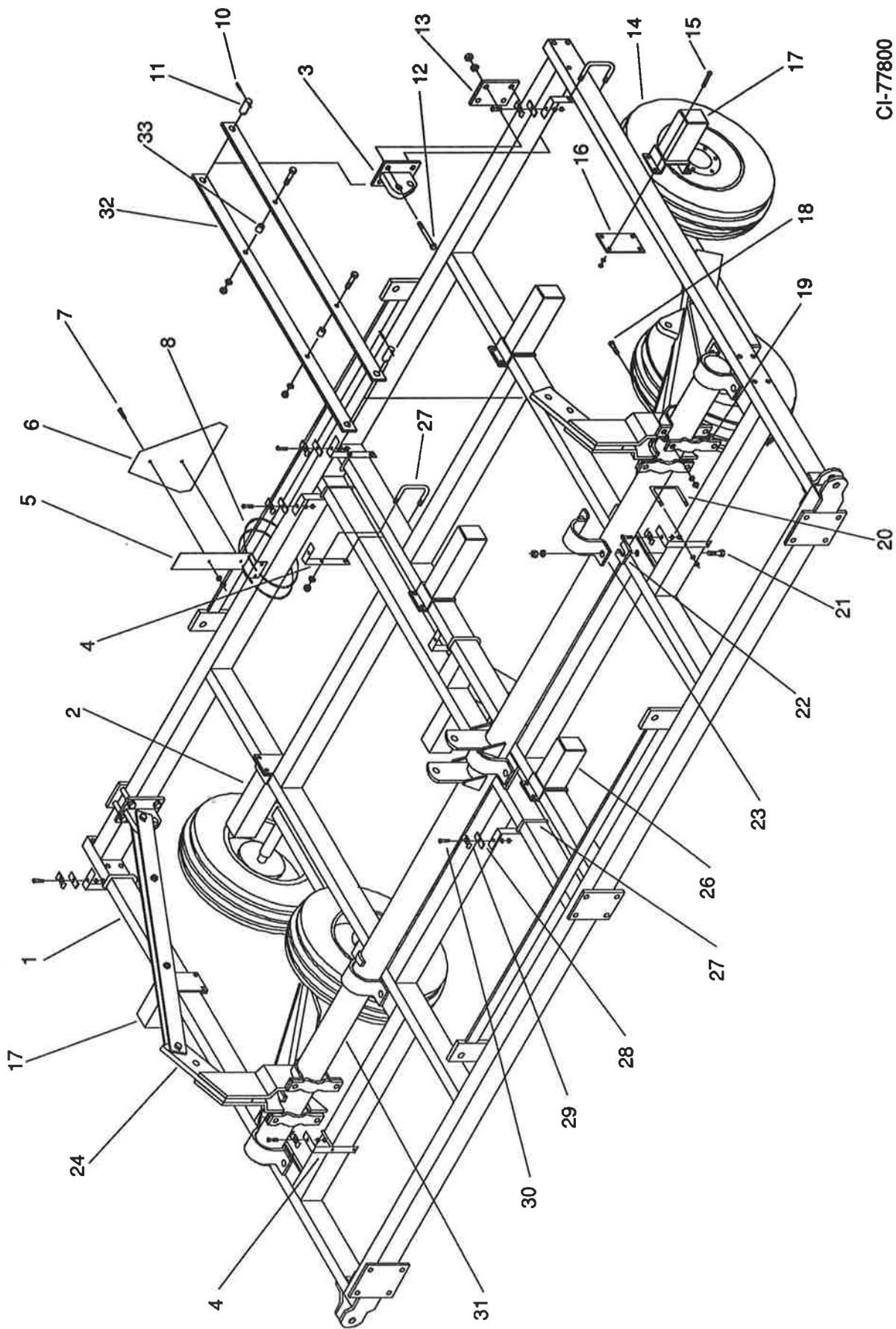
88172	1/4NC Nut	88262	1/4 Lock Washer
88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

SERVICE PART



CI-78280

3450 MAIN FRAME



CI-77800

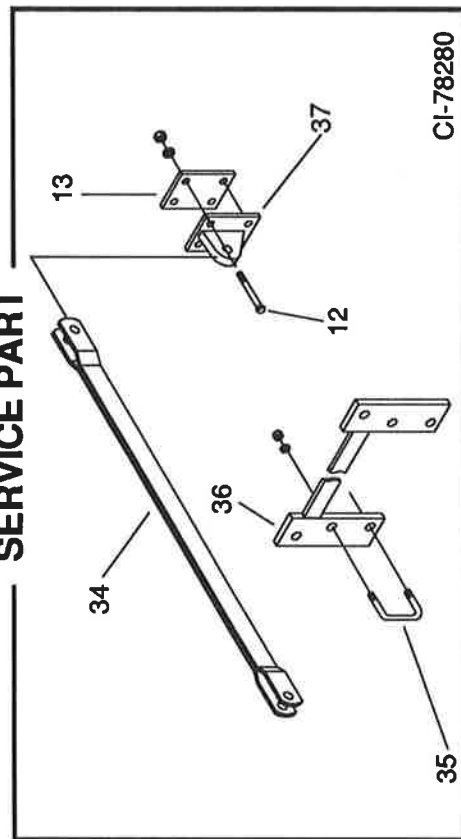
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48499	3450 Main Frame	22	10176	Shim
2	48536	20" Wheel Well Stub	23	10399	Axle Cap
3	54438	Mast Anchor	24	48506	9.3 Main Axle Mast
4	13270	Tube Bracket	25	49025	12" Saddle Stub
5	41359	SMV Bracket	26	26815	8" Saddle Stub
6	30651	SMV Emblem	27	88515	3/8NCx4x2-3/4 U-Bolt
7	88351	1/4NC x 3/4 Bolt	28	15543	Base Plate
8	33096	Tie Wrap	29	13215	Tube Clamp
9	48509	Main Mast Rod	30	88553	3/8NC x 1-1/2 GR 5 Bolt
10	42484	Cylinder Lock Pin	31	48919	3450 Main Axle Assembly (See page 55 for walker.)
11	49874	Pin	32	53487	Mast Strap
12	88305	3/4NC x 5 GR 5 Bolt	33	48672	Bushing (.656ID x 1"OD x 1.06 Long)
13	48966	Back-Up Plate	34	48509	Main Mast Rod (Before Serial #439550)
14	13142	95L x 15 Wheel Assembly	35	48453	5/8NC x 4 x 4-1/2 U-Bolt
15	88475	1/2NC x 1-1/2 GR5 Bolt	36	48502	3450 Wing Anchor (Before Serial #43800)
16	26817	Backing Plate	37	48508	Mast Anchor (Before Serial #439844)
17	26815	8" Saddle Stub			
18	88404	3/4NC x 2-1/2 GR 5 Bolt			
19	21375	Axle Saddle Assembly			
20	88514	3/8NC x 4 x 3-3/4 U-Bolt			
21	88495	7/8NC x 2-1/2 GR5 Bolt			

NOTE: STANDARD NUTS AND LOCK WASHERS ARE NOT CALLED OUT. ANYTHING OTHER THAN STANDARD WILL BE CALLED OUT.

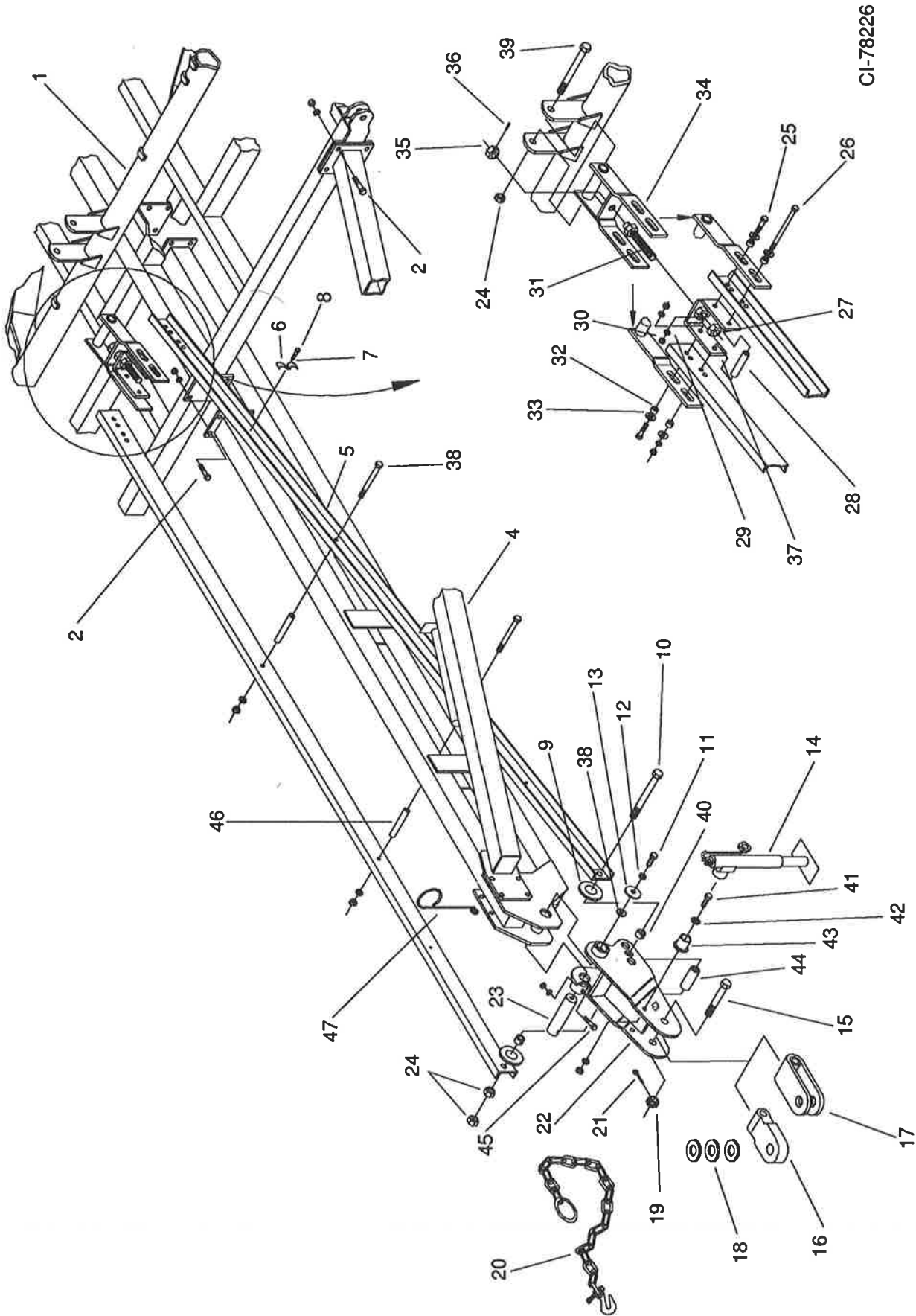
STANDARD NUTS AND LOCK WASHERS

88172	1/4NC Nut	88262	1/4 Lock Washer
88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

SERVICE PART



SELF LEVELING HITCH



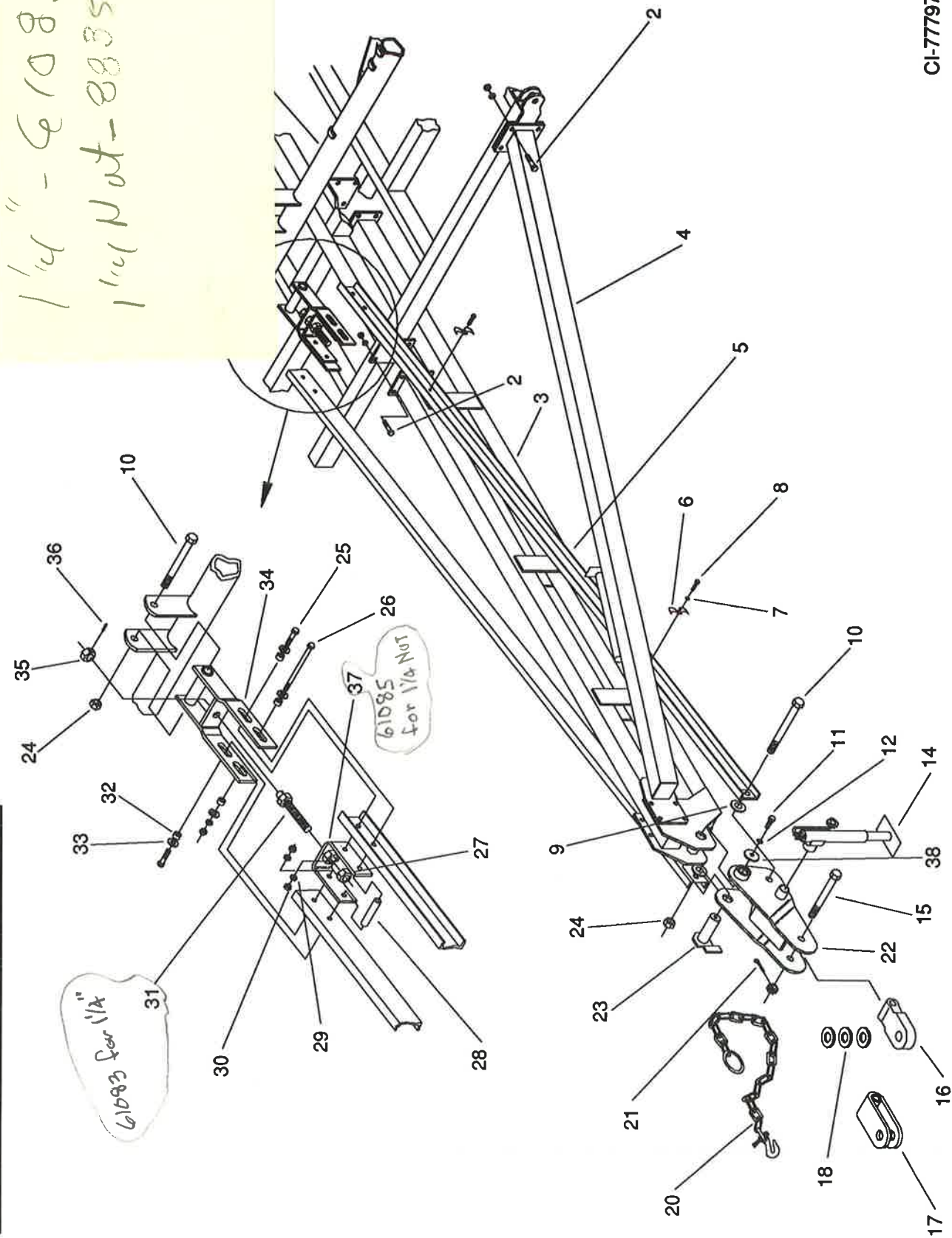
CI-78226

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48917	3411 Main Axle	17	11364	Clevis Hitch
	48918	3420 Main Axle	18	19262	Shim Plates
	48919	3450 Main Axle	19	88350	1-1/4NC Slotted Nut
2	88290	3/4NC x 2 GR8 Bolt	20	30618	Safety Chain Assembly
3	48490	Main Pole	21	88133	3/16 x 2 Cotter Pin
4	48491	Right 9'4" Pole Brace (3411)	22	53486	Multi-Hitch Pivot
	49162	Left 9'4" Decal Pole Brace (3411)(Shown)	23	53495	Pivot Shaft
	48495	Right 11' Pole Brace (3420)	24	88622	1-1/4NC Jam Nut
	49164	Left 11' Decal Pole Brace (3420)(Shown)	25	88409	5/8NC x 2-1/2 GR5 Bolt
	48496	Right 14'4" Pole Brace (3450)	26	88557	5/8NC x 9 GR5 Bolt
	49220	Left 14'4" Decal Pole Brace (3450)(Shown)	27	88141	1NC Jam Nut (For 1 1/4 88350)
5	54064	Channel Assembly	28	49351	Spacer (1"x4.96)
6	13215	Tube Clamp	29	88129	5/8 Lock Washer
7	88362	3/8 Lock Washer	30	88126	5/8NC Nut
8	88553	3/8NC x 1-1/2 GR 5 Bolt	31	48890	Adjustment Rod 1" (for 1 1/4 61083)
9	88610	1-1/2" SAE Flat Washer (1-9/16"IDx3"OD)	32	48882	Bushing (.656ID x 1"OD x .62)
10	54072	Pivot Bolt 1-1/4NC x 9-1/2 GR 8	33	88277	5/8 Flat Washer
11	88405	3/4NC x 1-3/4 GR5 Bolt	34	48885	Pivot Assembly
12	88130	3/4 Lock Washer	35	88124	1NC Slotted Nut
13	51351	Washer	36	88648	1/4 x 1-1/4 Spring Pin
14	24415	Jack	37	48889	Plate Assembly
15	11638	Hitch Bolt	38	88553	5/8NC x 7-1/2 GR 5 Bolt
16	18237	Cast Hitch	39	88901	1NC x 9-1/2 GR 5 Bolt
			40	33535	Spring Tension Bushing (1.25ID x 1.53OD x 1")
			41	88290	3/4NC x 2 GR8 Bolt
			42	88548	3/4 SAE Flat Washer (13/16IDx1-1/2OD)
			43	53498	Bolted Jack Stub
			44	49351	Spacer Tube (.656ID x 1"OD x 4.96)
			45	88292	5/8NC x 3-1/2 GR5 Bolt
			46	54074	Bushing Spacer Tube (.640ID x 1"OD x 6.25)
			47	52329	Hose Holder

NOTE: STANDARD NUTS AND LOCK WASHERS ARE NOT CALLED OUT. ANYTHING OTHER THAN STANDARD WILL BE CALLED OUT.

STANDARD NUTS AND LOCK WASHERS		
88172	1/4NC Nut	88262 1/4 Lock Washer
88103	3/8NC Nut	88362 3/8 Lock Washer
88104	1/2NC Nut	88303 1/2 Lock Washer
88126	5/8NC Nut	88129 5/8 Lock Washer
88110	3/4NC Nut	88130 3/4 Lock Washer
88371	7/8NC Nut	88341 7/8 Lock Washer

SELF LEVELING HITCH

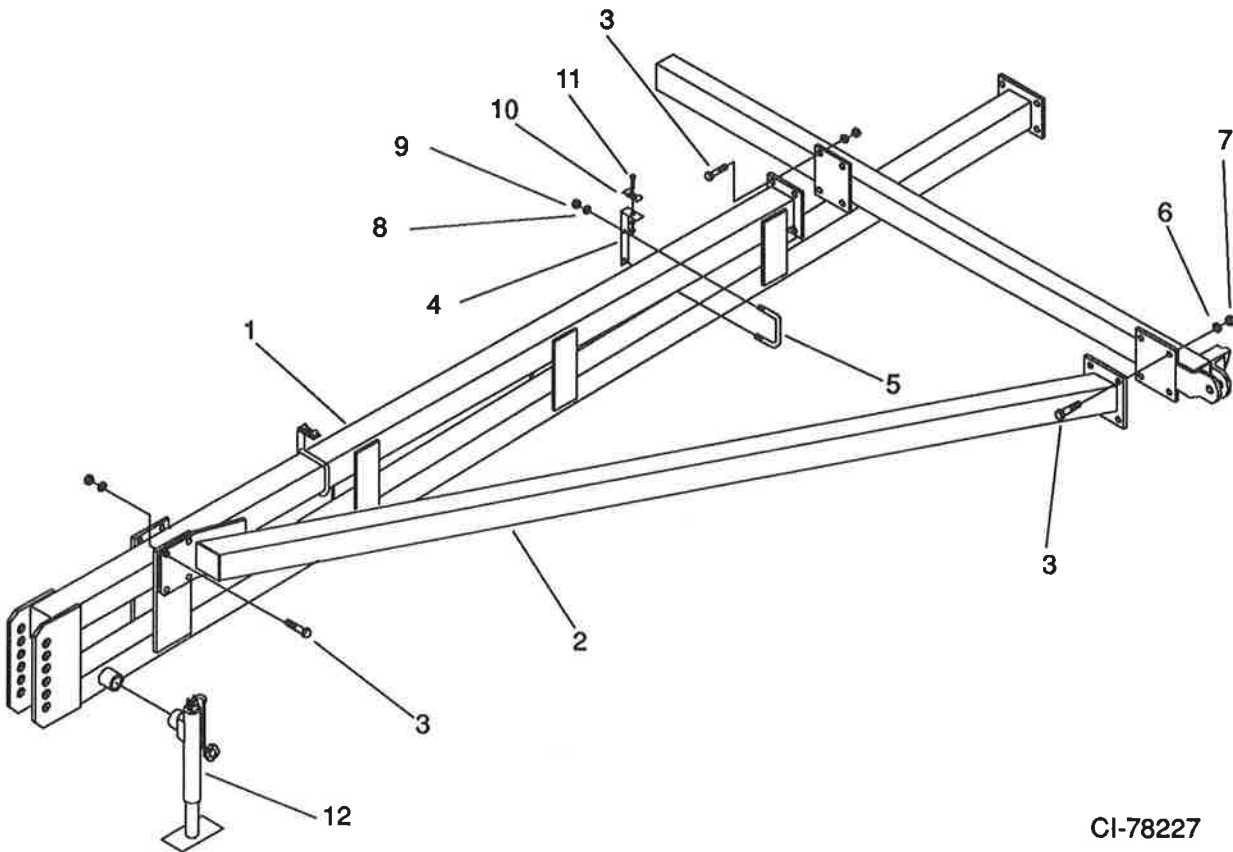


CI-77797

ITEM	PART NO.	DESCRIPTION
1	48917	3411 Main Axle
	48918	3420 Main Axle
	48919	3450 Main Axle
2	88290	3/4NC x 2 GR8 Bolt
3	48490	Main Pole
4	48491	Right 9'4" Pole Brace (3411)
	49162	Left 9'4" Decal Pole Brace (3411)(Shown)
	48495	Right 11' Pole Brace (3420)
	49164	Left 11' Decal Pole Brace (3420)(Shown)
	48496	Right 14'4" Pole Brace (3450)
	49220	Left 14'4" Decal Pole Brace (3450)(Shown)
5	48886	Channel Assembly
6	13215	Tube Clamp
7	88362	3/8 Lock Washer
8	88553	3/8NC x 1-1/2 GR 5 Bolt
9	88196	1" Flat Washer
10	88901	1NC x 9-1/2 GR 5 Bolt
11	88405	3/4NC x 1-3/4 GR5 Bolt
12	88130	3/4 Lock Washer
13	48493	Hitch Pin Plate
14	24415	Jack
15	11638	Hitch Bolt
16	18237	Cast Hitch

ITEM	PART NO.	DESCRIPTION
17	11364	Clevis Hitch
18	19262	Shim Plates
19	88350	1-1/4NC Slotted Nut
20	30618	Safety Chain Assembly
21	88133	3/16 x 2 Cotter Pin
22	48494	Main Hitch
23	48492	Hitch Pivot Pin
24	88348	1NC Lock Nut
25	88409	5/8NC x 2-1/2 GR5 Bolt
26	88557	5/8NC x 9 GR5 Bolt
27	88141	1NC Jam Nut
28	49351	Spacer (.656ID x 1"OD x 4.96)
29	88129	5/8 Lock Washer
30	88126	5/8NC Nut
31	48890	Adjustment Rod
32	48882	Bushing (.656ID x 1"OD x .62)
33	88277	5/8 Flat Washer
34	48885	Pivot Assembly
35	88124	1NC Slotted Nut
36	88648	1/4 x 1-1/4 Spring Pin
37	48889	Plate Assembly / "Z" Bolt
38	88131	3/4 Flat Washer

RIGID HITCH



CI-78227

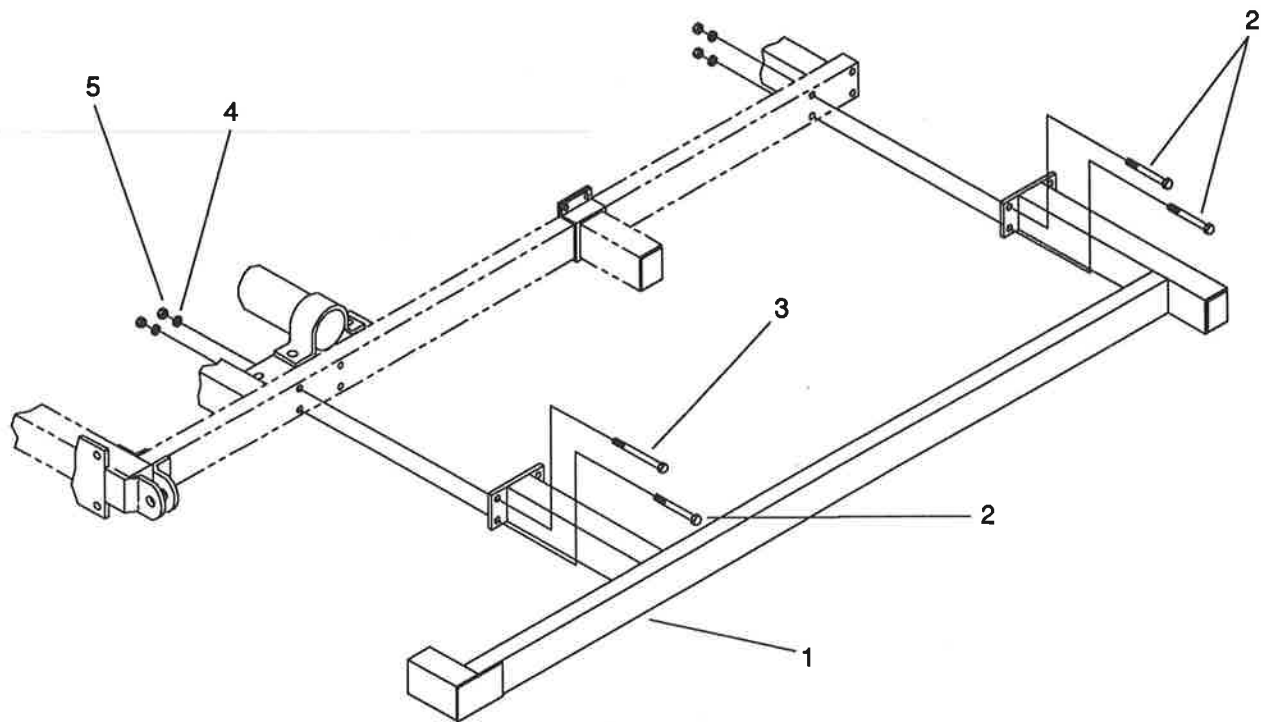
ITEM	PART NO.	DESCRIPTION
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1	54068	Rigged Pole
2	48491	Right 9'4" Pole Brace (3411)
	49162	Left 9'4" Decal Pole Brace (3411)(Shown)
	48495	Right 11' Pole Brace (3420)
	49164	Left 11' Decal Pole Brace (3420)
	48496	Right 14'4" Pole Brace (3450)
	49220	Left 14'4" Decal Pole Brace (3450)

ITEM	PART NO.	DESCRIPTION
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3	88290	3/4NC x 2 GR 8 Bolt
4	13499	Pole Tube Big Bracket
5	88385	3/8NC x 4 x 4-3/4 U-Bolt
6	88130	3/4 Lock Washer
7	88110	3/4NC Nut
8	88362	3/8 Lock Washer
9	88103	3/8NC Nut
10	13215	Tube Clamp
11	88553	3/8NC x 1-1/2 GR5 Bolt
12	24415	Jack

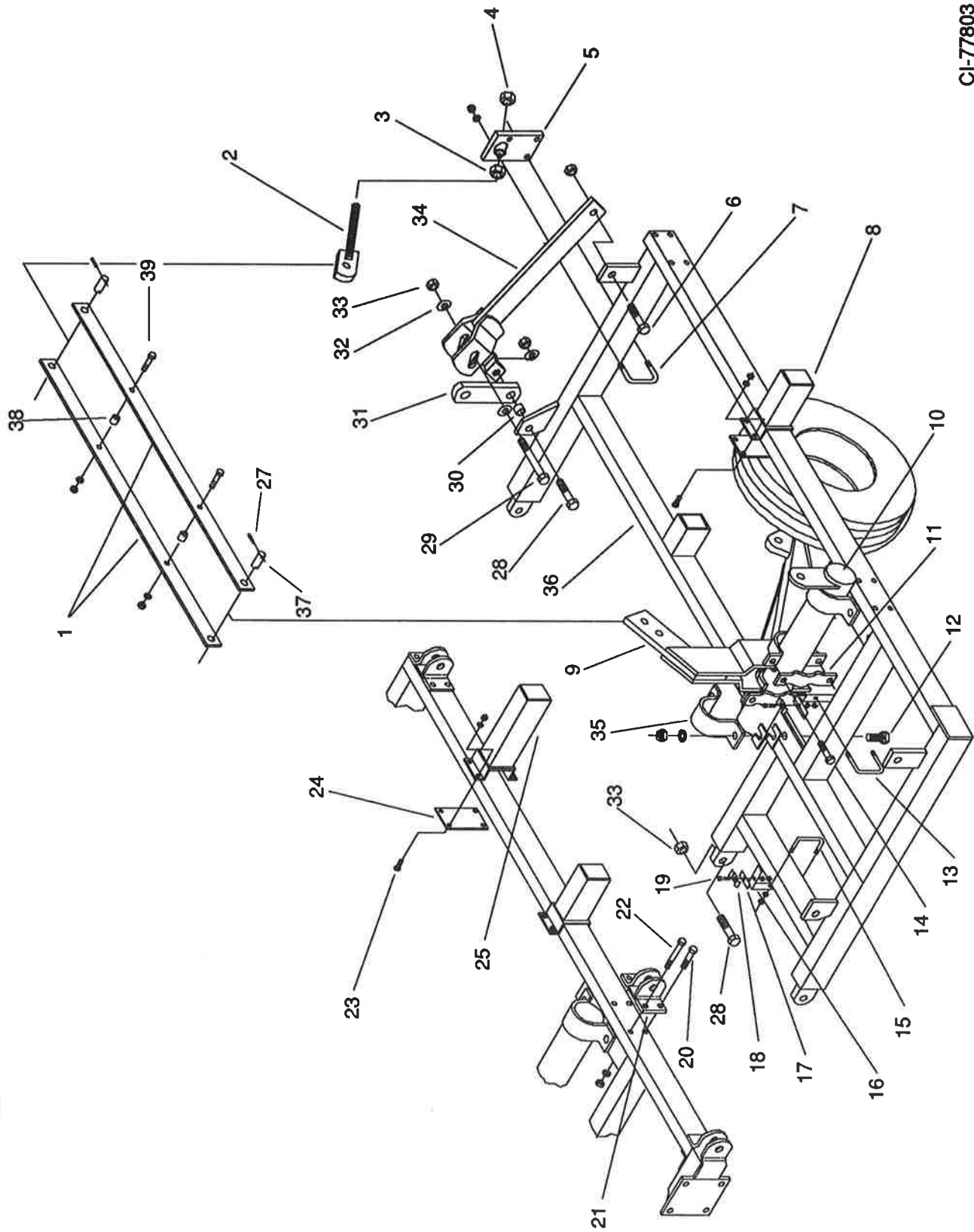
2FT RIGID WING



CI-77804

ITEM	PART NO.	DESCRIPTION
1	49024	2Ft Rigid Wing
2	88292	5/8NC x 3-1/2 GR5 Bolt
3	88298	5/8NC x 4 GR5 Bolt
4	88129	5/8 Lock Washer
5	88126	5/8NC Nut

4' 8" WING



CI-77803

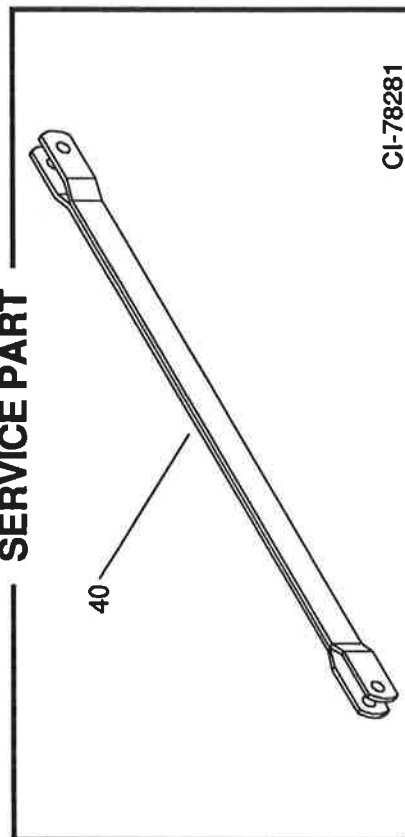
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	53487	Main Mast Strap	23	88475	1/2NC x 1-1/2 GR5 Bolt
2	48740	Wing Mast Adjustment	24	26817	Backing Plate
3	88141	1NC Jam Nut	25	49025	12" Saddle Stub
4	88125	1NC Nut	26	10176	Spacer
5	48511	Adjustment Guide	27	42484	Cylinder Lock Pin
6	88393	1NC x 2-1/2 GR5 Bolt	28	88447	1NC x 3-1/2 GR5 Bolt
7	88453	5/8NC x 4 x 4-1/2 U-Bolt	29	88312	1NC x 5 GR5 Bolt
8	26815	8" 3 x 4 Saddle Stub	30	48523	Wing Lift Bushing (1.032ID x 1-1/4OD x 1.06)
9	48507	8.0 Wing Axle Mast	31	48522	Wing Lift Link
10	48525	Left Single Wing Axle (Shown)	32	88196	1" Flat Washer
	48524	Right Single Wing Axle	33	88348	1NC Lock Nut
11	21375	Axle Saddle Assembly	34	48516	Left 4'8" Wing Lift Assembly (Shown)
12	88495	7/8NC x 2-1/2 GR5 Bolt		48517	Right 4'8" Wing Lift Assembly
13	88514	3/8NC x 4 x 3-3/4 U-Bolt	35	10399	Axle Cap
14	88404	3/4NC x 2-1/2 GR5 Bolt	36	48529	4'8" Left Wing (Shown)
15	88515	3/8NC x 4 x 2-3/4 U-Bolt		48528	4'8" Right Wing
16	13270	Pole Tube Bracket	37	49874	Pin
17	15543	Base Plate	38	48672	Bushing (.656ID x 1"OD x 1.06)
18	13215	Tube Clamp	39	88409	5/8NC x 2-1/2 GR5 Bolt
19	88553	3/8NC x 1-1/2 GR5 Bolt	40	48509	Main Mast Rod
20	88292	5/8NC x 3-1/2 GR5 Bolt			(Before Serial #439550)
21	48537	Wing Hinge			
22	88298	5/8NC x 4 GR5 Bolt			

NOTE: STANDARD NUTS AND LOCK WASHERS ARE NOT CALLED OUT. ANYTHING OTHER THAN STANDARD WILL BE CALLED OUT.

STANDARD NUTS AND LOCK WASHERS

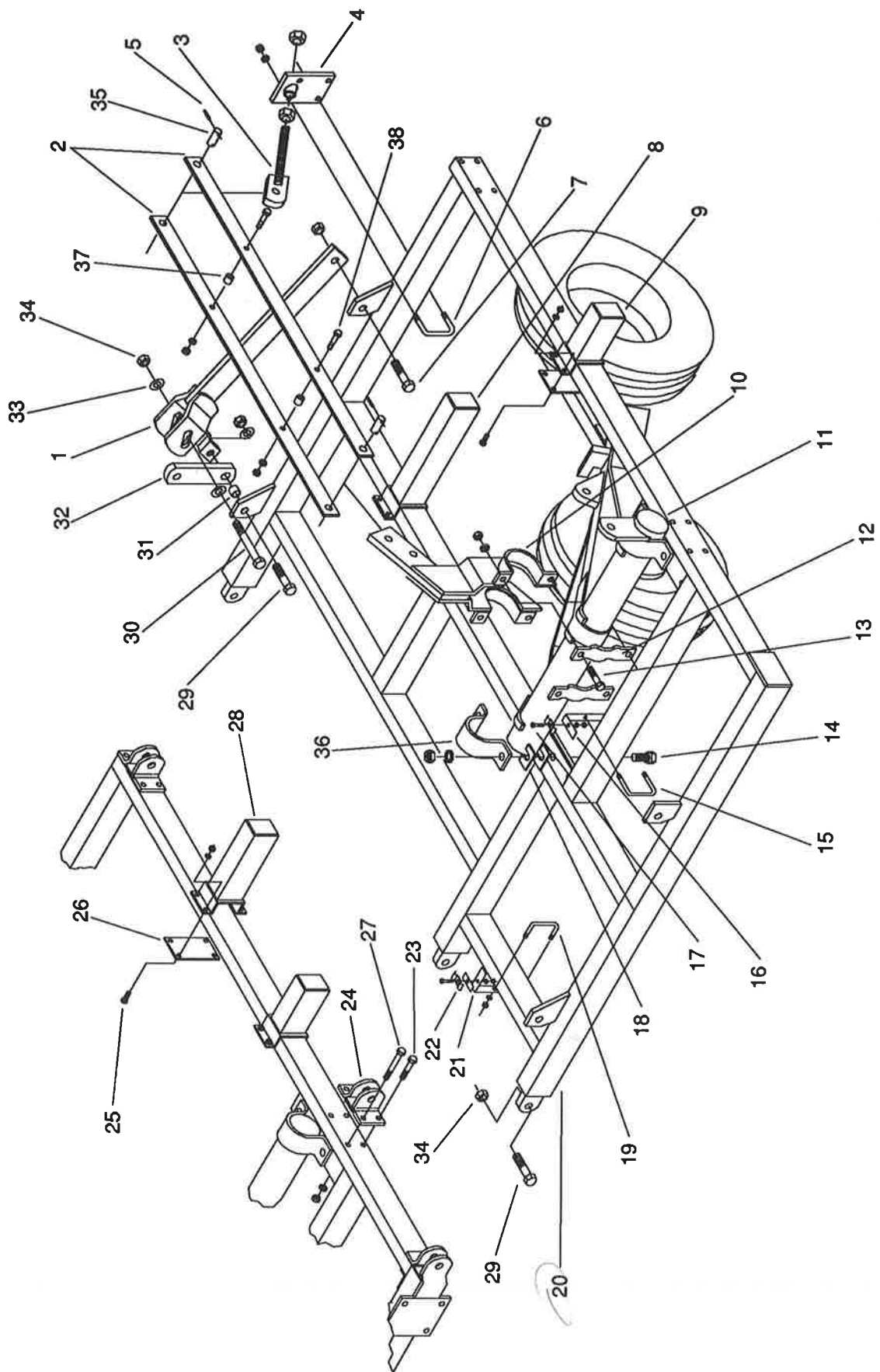
88172	1/4NC Nut	88262	1/4 Lock Washer
88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

SERVICE PART



CI-78281

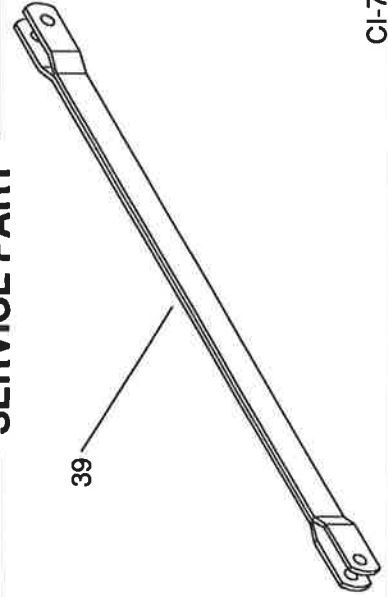
7' WING



CI-77799

ITEM	PART NO.	DESCRIPTION
1	48518	Left Wing Lift Assembly (Shown)
	48519	Right Wing Lift Assembly
2	53487	Mast Strap
3	48740	Wing Mast Adjustment
4	48511	Adjustment Guide
5	42484	Cylinder Lock Pin
6	88453	5/8NC x 4 x 4-1/2 U-Bolt
7	88393	1NC x 2-1/2 GR5 Bolt
8	48536	20" 3 x 4 Saddle Stub
9	26815	8" 3 x 4 Saddle Stub
10	48507	8.0 Wing Axle Mast
11	48967	Left TA Wing Axle Assembly (Shown)
	48968	Right TA Wing Axle Assembly
12	21375	Axle Saddle Assembly
13	88404	3/4NC x 2-1/2 GR5 Bolt
14	88495	7/8NC x 2-1/2 GR5 Bolt
15	88514	3/8NC x 4 x 3-3/4 U-Bolt
16	13270	Pole Tube Bracket
17	88553	3/8NC x 1-1/2 GR5 Bolt
18	10176	Spacer
19	88515	3/8NC x 4 x 2-3/4 U-Bolt
20	48531	Left 7' Wing (Shown)
	48530	Right 7' Wing
21	15543	Base Plate
22	13215	Tube Clamp
23	88292	5/8NC x 3-1/2 GR5 Bolt
24	48537	Wing Hinge
25	88475	1/2NC x 1-1/2 GR5 Bolt
26	26817	Backing Plate
27	88298	5/8NC x 4 GR5 Bolt
28	49025	12" Saddle Stub
29	88447	1NC x 3-1/2 GR5 bolt
30	88312	1NC x 5 GR5 Bolt
31	48523	Wing Lift Bushing (1.032ID x 1-1/4ID x 1.06)
32	48522	Wing Lift Link
33	88196	1" Flat Washer
34	88348	1NC Lock Nut
35	49874	Pin
36	10399	Axle Cap
37	48672	Bushing (.656ID x 1"OD x 1.06)
38	88409	5/8NC x 2-1/2 GR 5 Bolt
39	48509	Main Mast ROD (Before Serial #439550)

SERVICE PART



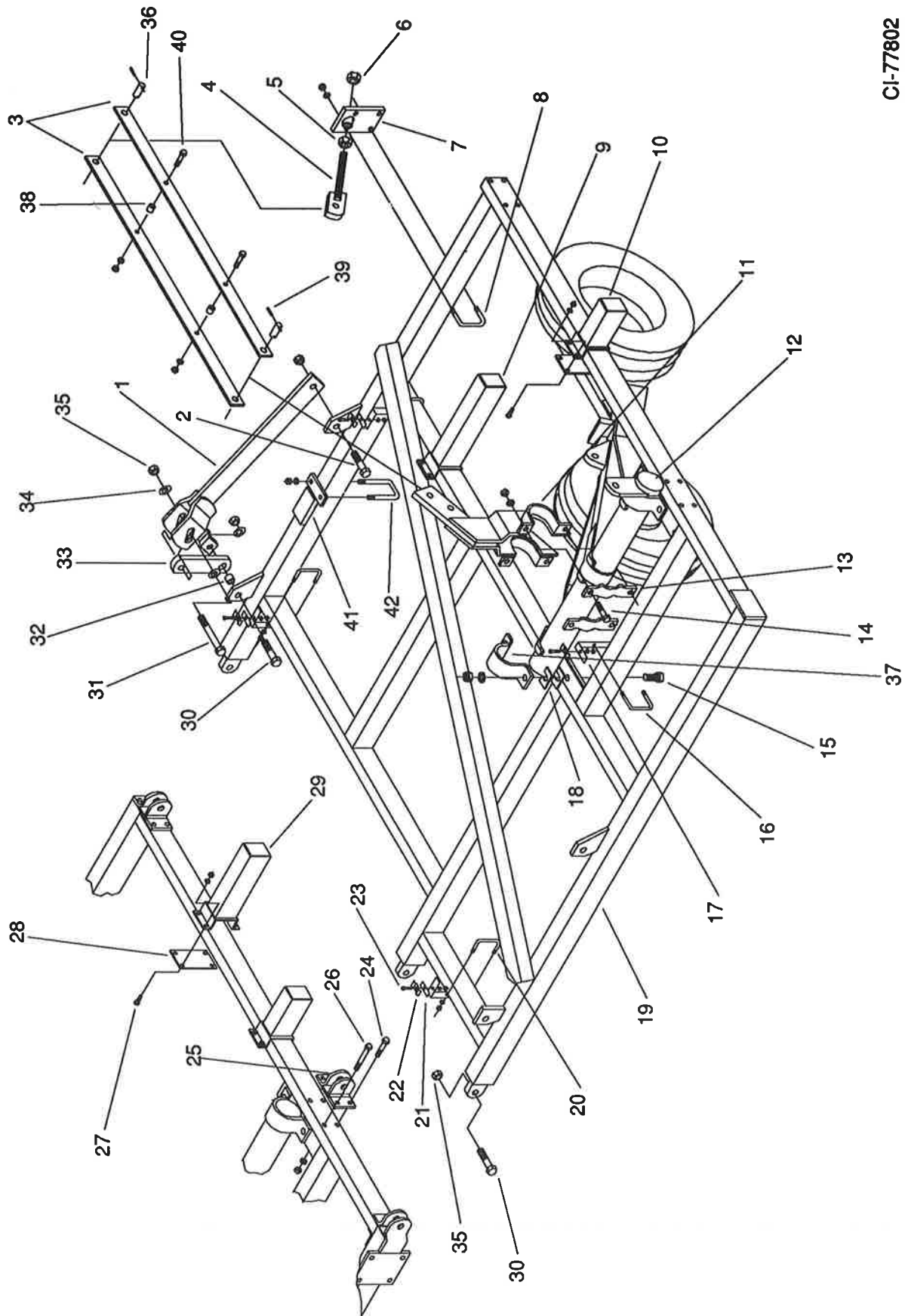
CI-78281

NOTE: STANDARD NUTS AND LOCK WASHERS ARE NOT CALLED OUT. ANYTHING OTHER THAN STANDARD WILL BE CALLED OUT.

STANDARD NUTS AND LOCK WASHERS

88172	1/4NC Nut	88262	1/4 Lock Washer
88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

9' 4" WING



CI-77802

ITEM	PART NO.	DESCRIPTION
1	48518	Left Wing Lift Assembly (Shown)
	48519	Right Wing Lift Assembly
2	88393	1NC x 2-1/2 GR5 Bolt
3	53487	Mast Strap
4	48740	Wing Mast Adjustment
5	88141	1NC Jam Nut
6	88125	1NC Nut
7	48511	Adjustment Guide
8	88453	5/8NC x 4 x 4-1/2 U-Bolt
9	48536	20" 3 x 4 Saddle Stub
10	26815	8" 3 x 4 Saddle Stub
11	48507	8.0 Wing Axle Mast
12	48967	Left TA Wing Axle Assembly (Shown)
	48968	Right TA Wing Axle Assembly
13	21375	Axle Saddle Assembly
14	88404	3/4NC x 2-1/2 GR5 Bolt
15	88495	7/8NC x 2-1/2 GR5 Bolt
16	88514	3/8NC x 4 x 3-3/4 U-Bolt
17	13270	Pole Tube Bracket
18	10176	Spacer
19	48533	Left 9'4" Wing (Shown)
	48532	Right 9'4" Wing
20	88515	3/8NC x 4 x 2-3/4 U-Bolt
21	15543	Base Plate
22	13215	Tube Clamp

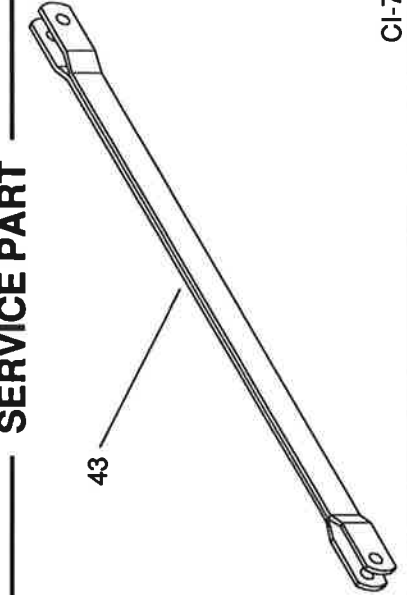
NOTE: STANDARD NUTS AND LOCK WASHERS ARE NOT CALLED OUT. ANYTHING OTHER THAN STANDARD WILL BE CALLED OUT.

STANDARD NUTS AND LOCK WASHERS

88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

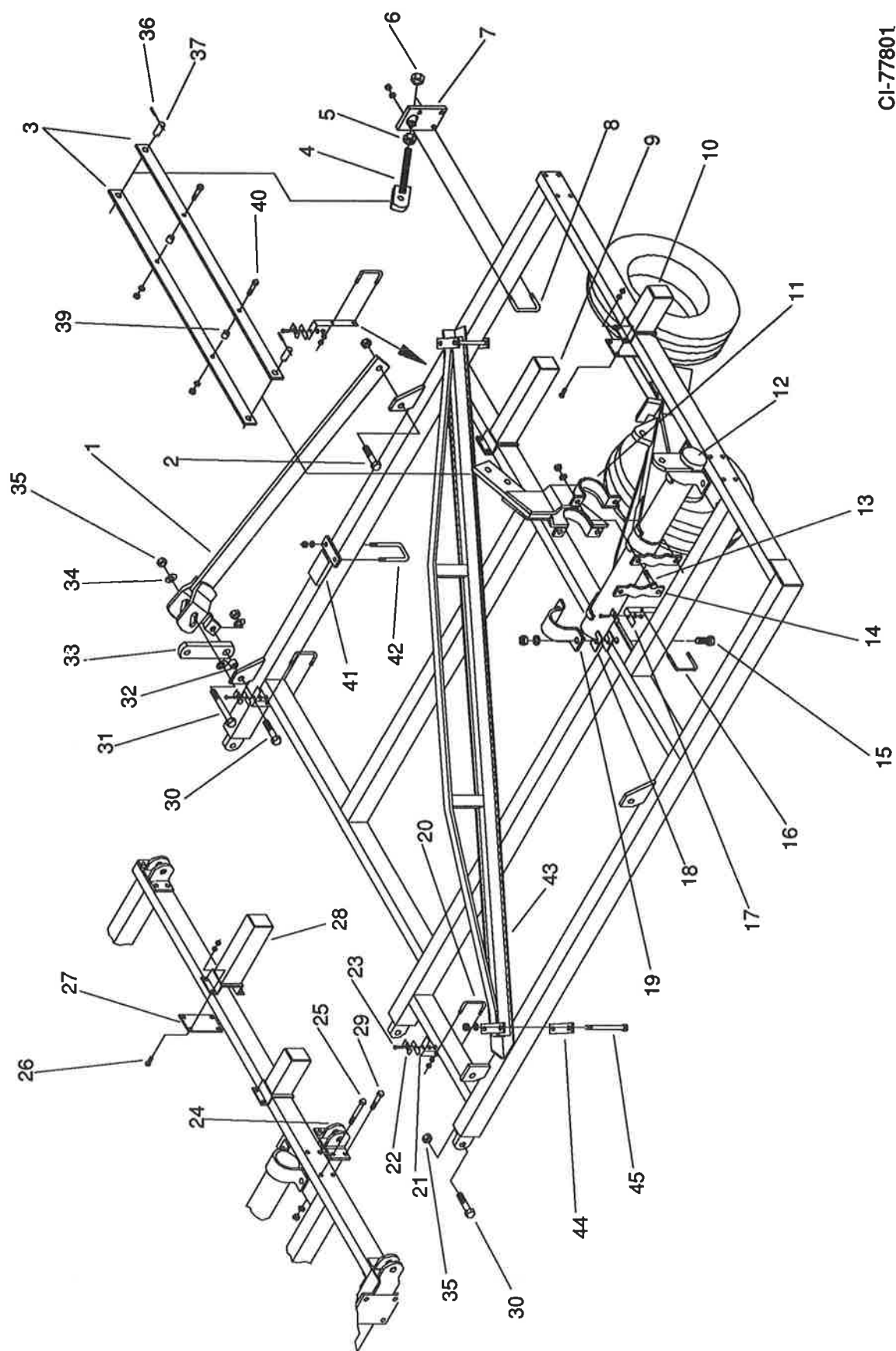
ITEM	PART NO.	DESCRIPTION
23	88553	3/8NC x 1-1/2 GR5 Bolt
24	88292	5/8NC x 3-1/2 GR5 Bolt
25	48537	Wing Hinge
26	88298	5/8NC x 4 GR5 Bolt
27	88475	1/2NC x 1-1/2 GR5 bolt
28	26817	Backing Plate
29	49025	12" Saddle Stub
30	88447	1NC x 3-1/2 GR5 Bolt
31	88312	1NC x 5 GR5 Bolt
32	48523	Wing Lift Bushing (1.032ID x 1-1/4OD x 1.06)
33	48522	Wing Lift Link
34	88196	1" Flat Washer
35	88348	1NC Lock Nut
36	49874	Pin
37	10399	Axle Cap
38	48672	Bushing (.656ID x 1"OD x 1.06)
39	42484	Cylinder Lock Pin
40	88409	5/8NC x 2-1/2 GR5 Bolt
41	51931	Spacer (Used w/3' & 5' Outer Wings on 3411 or 3420 Main Frames)
42	88503	5/8NC x 3 x 5-1/4 U-Bolt
43	48509	Main Mast Rod (Before Serial #439550)

SERVICE PART



CI-78281

11' 8" WING



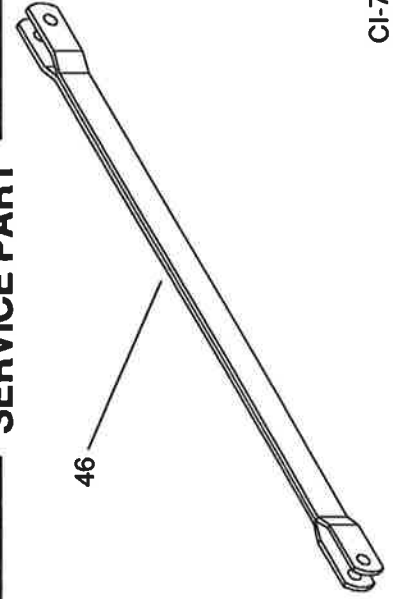
CI-77801

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48520	Left Wing Lift Assembly (Shown)	25	88298	5/8NC x 4 GR5 Bolt
2	48521	Right Wing Lift Assembly	26	88475	1/2NC x 1-1/2 GR5 Bolt
3	88393	1NC x 2-1/2 GR5 Bolt	27	26817	Backing Plate
4	53487	Mast Strap	28	49025	12"Saddle Stub
5	48740	Wing Mast Adjustment	29	88292	5/8NC x 3-1/2 GR5 Bolt
6	88141	1NC Jam Nut	30	88447	1NC x 3-1/2 GR5 Bolt
7	88125	1NC Nut	31	88312	1NC x 5 GR5 Bolt
8	48511	Adjustment Guide	32	48523	Wing Lift Bushing (1.032ID x 1-1/4OD x 1.06)
9	88453	5/8NC x 4 x 4-1/2 U-Bolt	33	48522	Wing Lift Link
10	48536	20" 3 x 4 Saddle Stub	34	88196	1" Flat Washer
11	26815	8" 3 x 4 Saddle Stub	35	88348	1NC Lock Nut
12	48507	8.0 Wing Axle Mast	36	42484	Cylinder Lock Pin
13	48967	Left TA Wing Axle Assembly (Shown)	37	49874	Pin
14	48968	Right TA Wing Axle Assembly	38	48535	Left 11'8" Wing (Shown)
15	88404	3/4NC x 2-1/2 GR5 Bolt	39	48534	Right 11'8" Wing
16	21375	Axle Saddle Assembly	40	48672	Bushing (.656ID x 1"OD x 1.06)
17	88495	7/8NC x 2-1/2 GR5 Bolt	41	88409	5/8NC x 2-1/2 GR5 Bolt
18	88514	3/8NC x 4 x 3-3/4 U-Bolt	42	51931	Spacer (Used w/3' & 5' Outer Wings on 3420 Main Frame Only)
19	13270	Pole Tube Bracket	43	88503	5/8NC x 3 x 5-1/4 U-Bolt
20	10176	Spacer	44	51654	11'8" Wing Truss
21	10399	Axle Cap	45	29297	Clamp Plate
22	88515	3/8NC x 4 x 2-3/4 U-Bolt	46	88557	5/8NC x 9 GR 5 Bolt
23	15543	Base Plate		48509	Main Mast Rod
24	13215	Tube Clamp			
	88553	3/8NC x 1-1/2 GR5 Bolt			
	48537	Wing Hinge			

NOTE: STANDARD NUTS AND LOCK WASHERS ARE NOT CALLED OUT. ANYTHING OTHER THAN STANDARD WILL BE CALLED OUT.

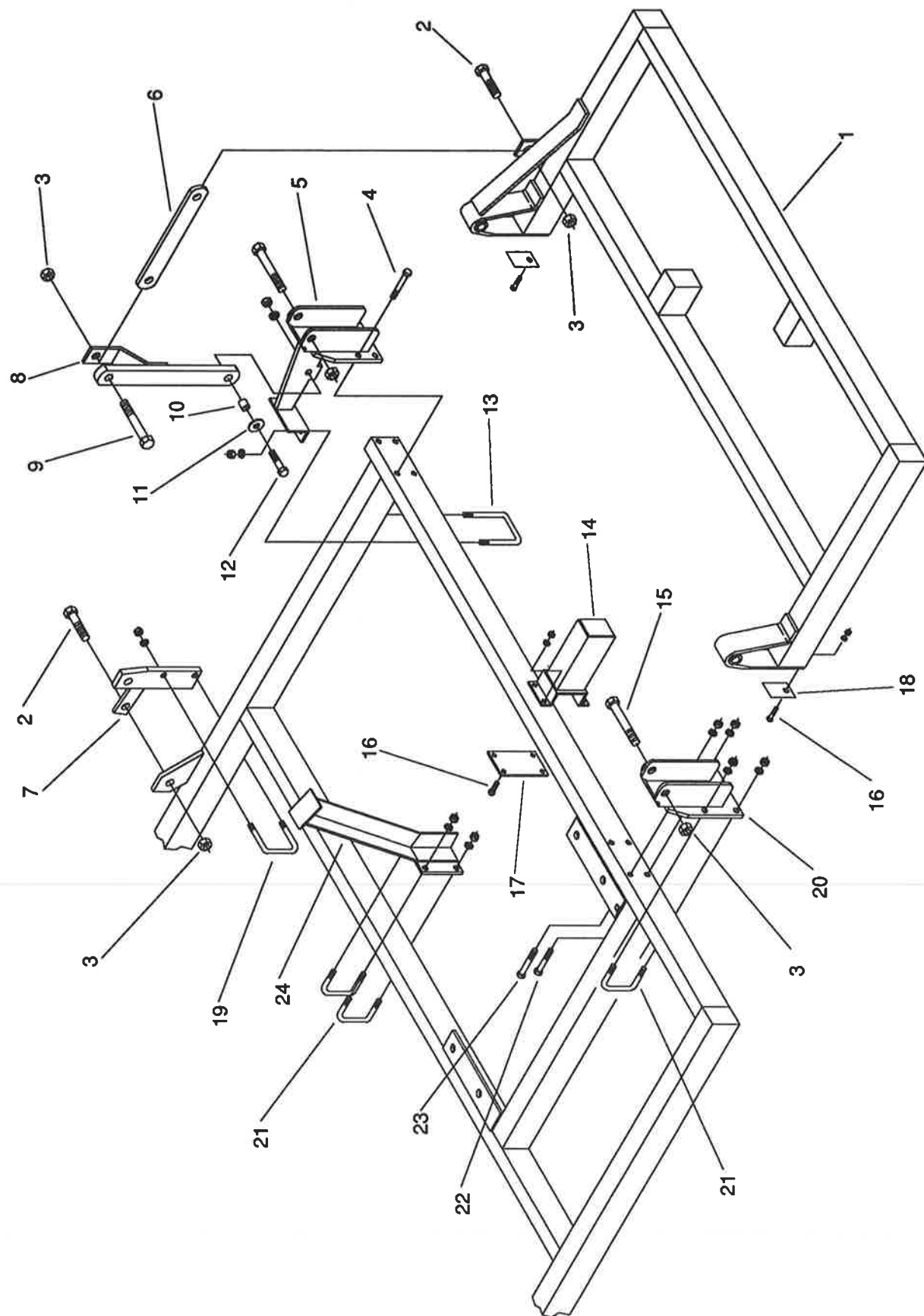
STANDARD NUTS AND LOCK WASHERS			
88172	1/4NC Nut	88262	1/4 Lock Washer
88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

SERVICE PART



CI-78281

3FT OUTER WING



CI-78123

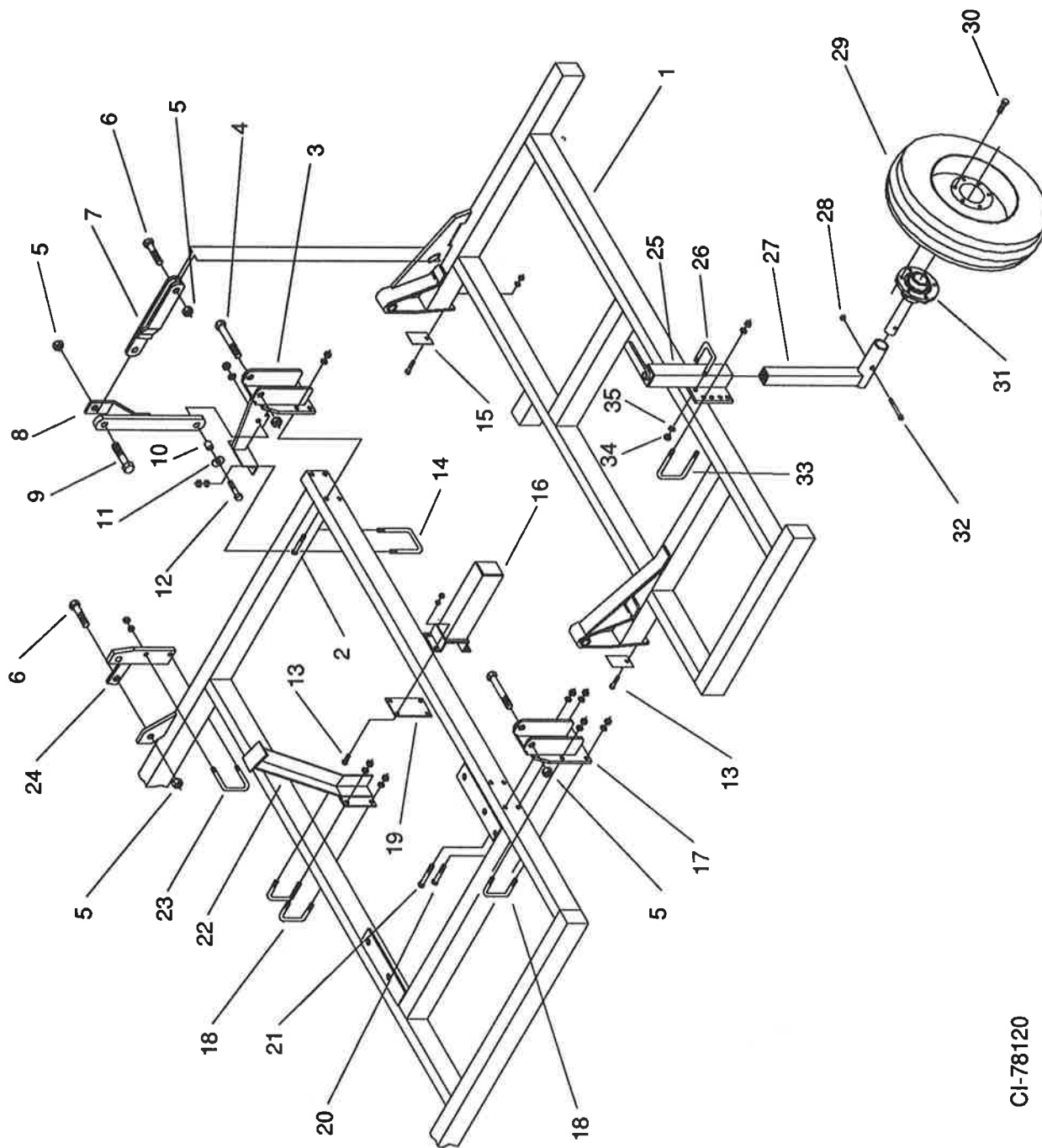
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	51454	Right 3' Outer Wing	12	88291	3/4NC x 3 GR 5 Bolt
2	51455	Left 3' Outer Wing (Shown)	13	88503	5/8NC x 3 x 5-1/4 U-Bolt
3	88399	1NC x 3 GR5 Bolt	14	26815	8IN 3 x 4 Saddle Stub
4	88348	1NC Lock Nut	15	88264	1NC x 6 GR 5 Bolt
5	88292	5/8NC x 3-1/2 GR5 Bolt	16	88475	1/2NC x 1-1/2 GR 5 Bolt
6	51462	Left Rear Hinge (Shown)	17	26817	Backing Plate
7	51461	Right Rear Hinge	18	51469	Shim
8	51456	Hinge Link	19	88501	5/8NC x 4 x 4-1/4 U-Bolt
9	51460	Left Anchor (Shown)	20	51458	Left Front Hinge (Shown)
10	51459	Right Anchor	21	51457	Right Front Hinge
11	51465	Lift Linkage	22	88388	5/8NC x 4 x 3-1/4 U-Bolt
	88312	1NC x 5 GR 5 Bolt	23	88292	5/8NC x 3-1/2 GR5 Bolt
	51468	Bushing (.782ID x 1"OD x 1.06)	24	88298	5/8NC x 4 GR5 Bolt
	88131	3/4 Flat Washer		53098	Outer Wing Rest

NOTE: STANDARD NUTS AND LOCK WASHERS ARE NOT CALLED OUT. ANYTHING OTHER THAN STANDARD WILL BE CALLED OUT.

STANDARD NUTS AND LOCK WASHERS

88172	1/4NC Nut	88262	1/4 Lock Washer
88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

5FT OUTER WING



CI-78120

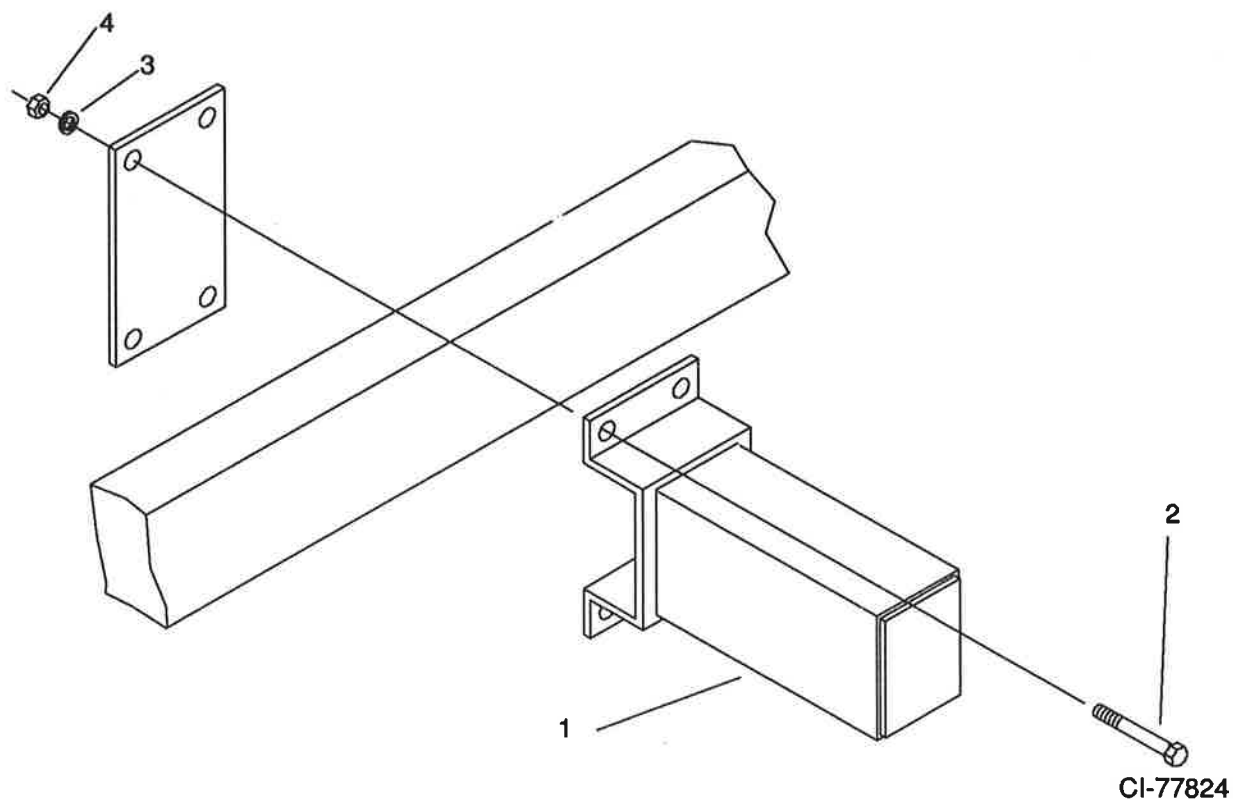
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	51466	Right 5' Outer Wing	19	26817	Backing Plate
	51467	Left 5' Outer Wing (Shown)	20	88292	5/8NC x 3-1/2 GR 5 Bolt
2	88292	5/8NC x 3-1/2 GR5 Bolt	21	88298	5/8NC x 4 GR5 Bolt
3	51462	Left Rear Hinge (Shown)	22	51656	Outer Wing Rest
	51461	Right Rear Hinge	23	88501	5/8NC x 4 x 4-1/4 U-Bolt
4	88264	1NC x 6 GR5 Bolt	24	51460	Left Anchor (Shown)
5	88348	1NC Lock Nut		51459	Right Anchor
6	88399	1NC x 3 GR5 Bolt	25	15485	Top Adjustment Assembly
7	51472	Lift Linkage	26	88311	5/8NC x 2-1/2 x 3-3/4 U-Bolt
8	51465	Lift Linkage	27	26774	Gauge Wheel Leg
9	88312	1NC x 5 GR5 Bolt	28	88304	1/2NF Lock Nut
10	51468	Bushing (.782ID x 1"OD x 1.06)	29	13142	95L x 15 Wheel Assembly
11	88131	3/4 Flat Washer		10236	Wheel Rim 15 x 6 6Bolt
12	88291	3/4NC x 3 GR5 Bolt		11950	Tire 95L x 15 6Ply
13	88475	1/2NC x 1-1/2 GR5 Bolt	30	88142	1/2NF x 1 Wheel Bolt
14	88503	5/8NC x 3 x 5-1/4 U-Bolt	31	41233	1-3/4 Hub & Spindle
15	51469	Shim	32	88313	1/2NF x 3 GR5 Bolt
16	26815	8IN 3x4 Saddle Stub	33	88388	5/8NC x 4 x 3-1/4 U-Bolt
17	51458	Left Front Hinge (Shown)	34	88126	5/8NC Nut
	51457	Right Front Hinge	35	88129	5/8 Lock Washer
18	88388	5/8NC x 4 x 3-1/4 U-Bolt			

NOTE: STANDARD NUTS AND LOCK WASHERS ARE NOT CALLED OUT. ANYTHING OTHER THAN STANDARD WILL BE CALLED OUT.

STANDARD NUTS AND LOCK WASHERS

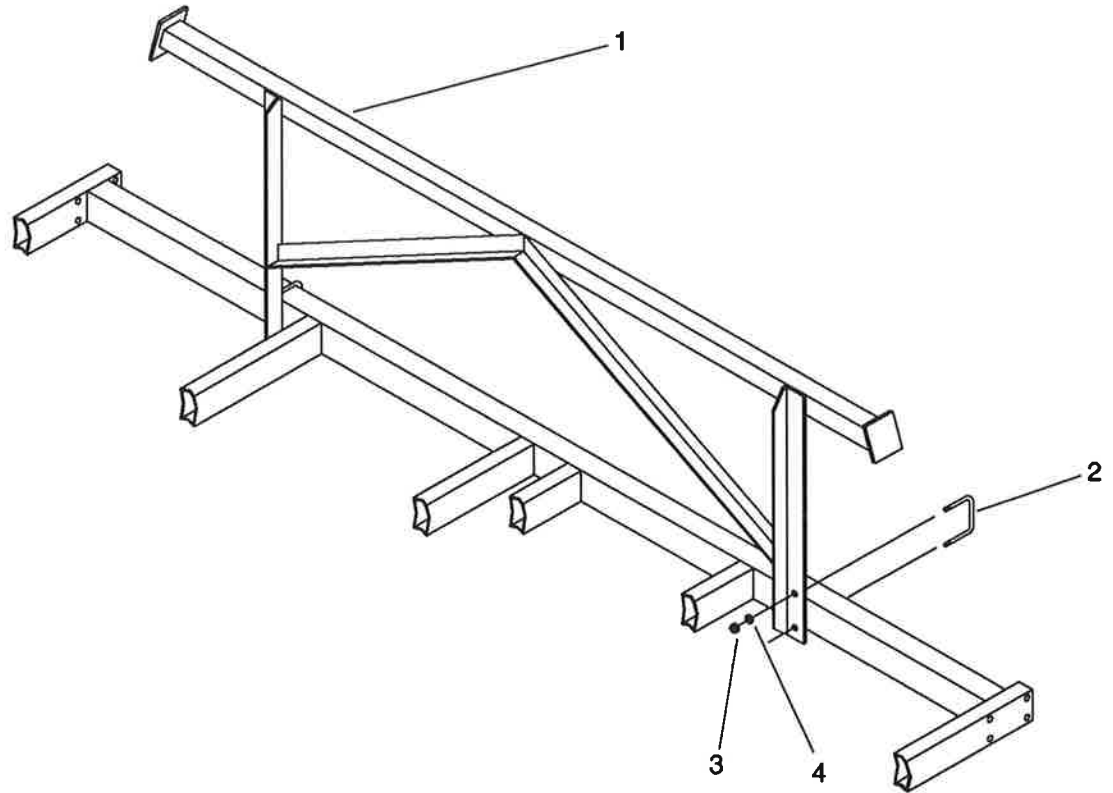
88172	1/4NC Nut	88262	1/4 Lock Washer
88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

SADDLE STUB



ITEM	PART NO.	DESCRIPTION
1	26815	8" 3 x 4 Saddle Stub
	49025	12" Saddle Stub
	48536	20" 3 x 4 Wheel Well Stub
2	88475	1/2NC x 1-1/2 GR5 Bolt (3420 & 3450)
	88507	1/2NCx3-1/2 GR5 Bolt (Center Tube 3411 Only)
3	88303	1/2 Lock Washer
4	88104	1/2NC Nut

WING REST

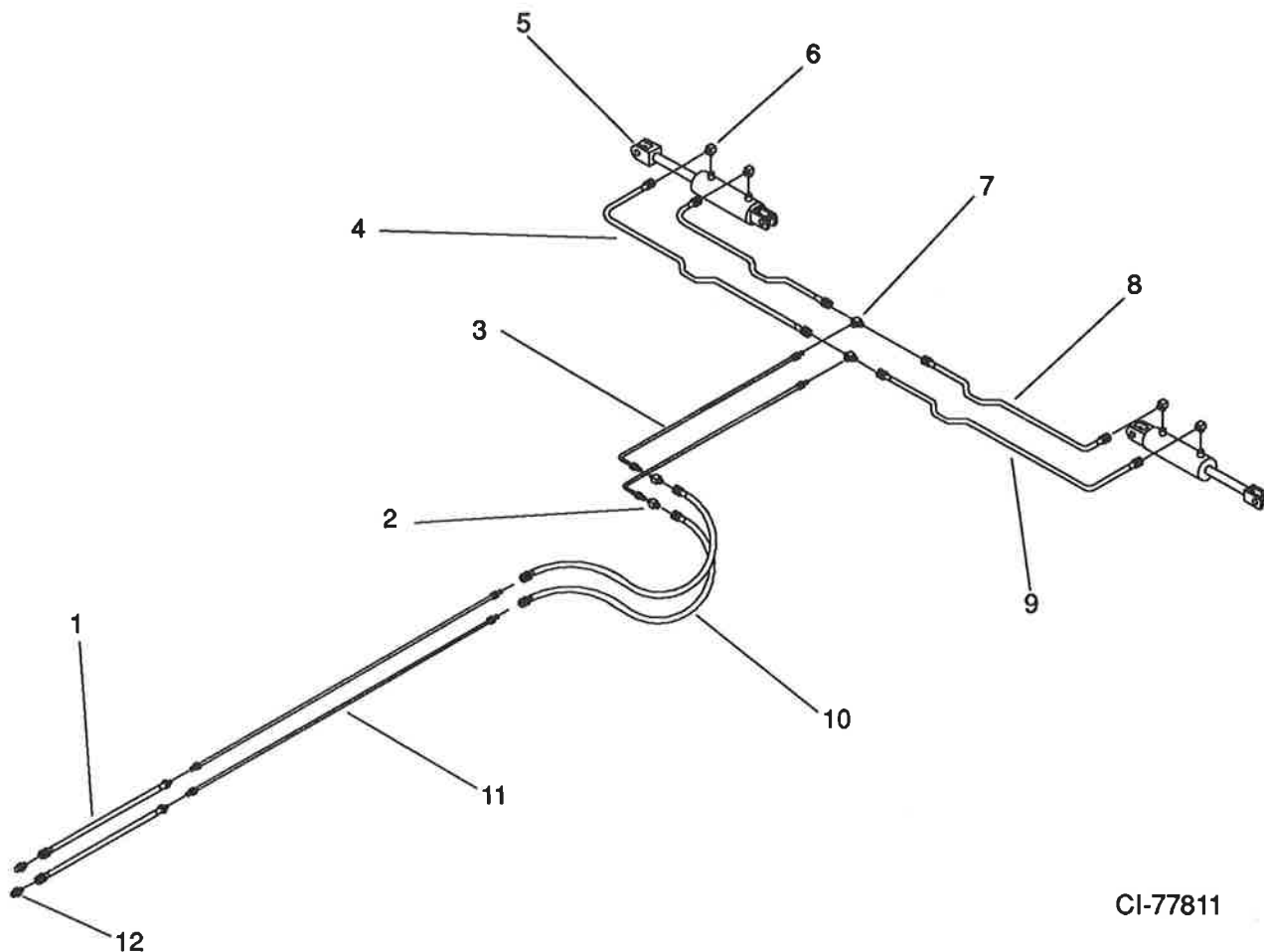


CI-77805

ITEM	PART NO.	DESCRIPTION
1	48512	9'4" Wing Rest
	48513	11'8" Wing Rest
	48514	14' Wing Rest
2	88453	5/8NC x 4 x 4-1/2 U-Bolt
3	88126	5/8NC Nut
4	88129	5/8 Lock Washer

WING LIFT HYDRAULICS

4'8", 7' & 9'4" WING



CI-77811

ITEM PART NO. DESCRIPTION

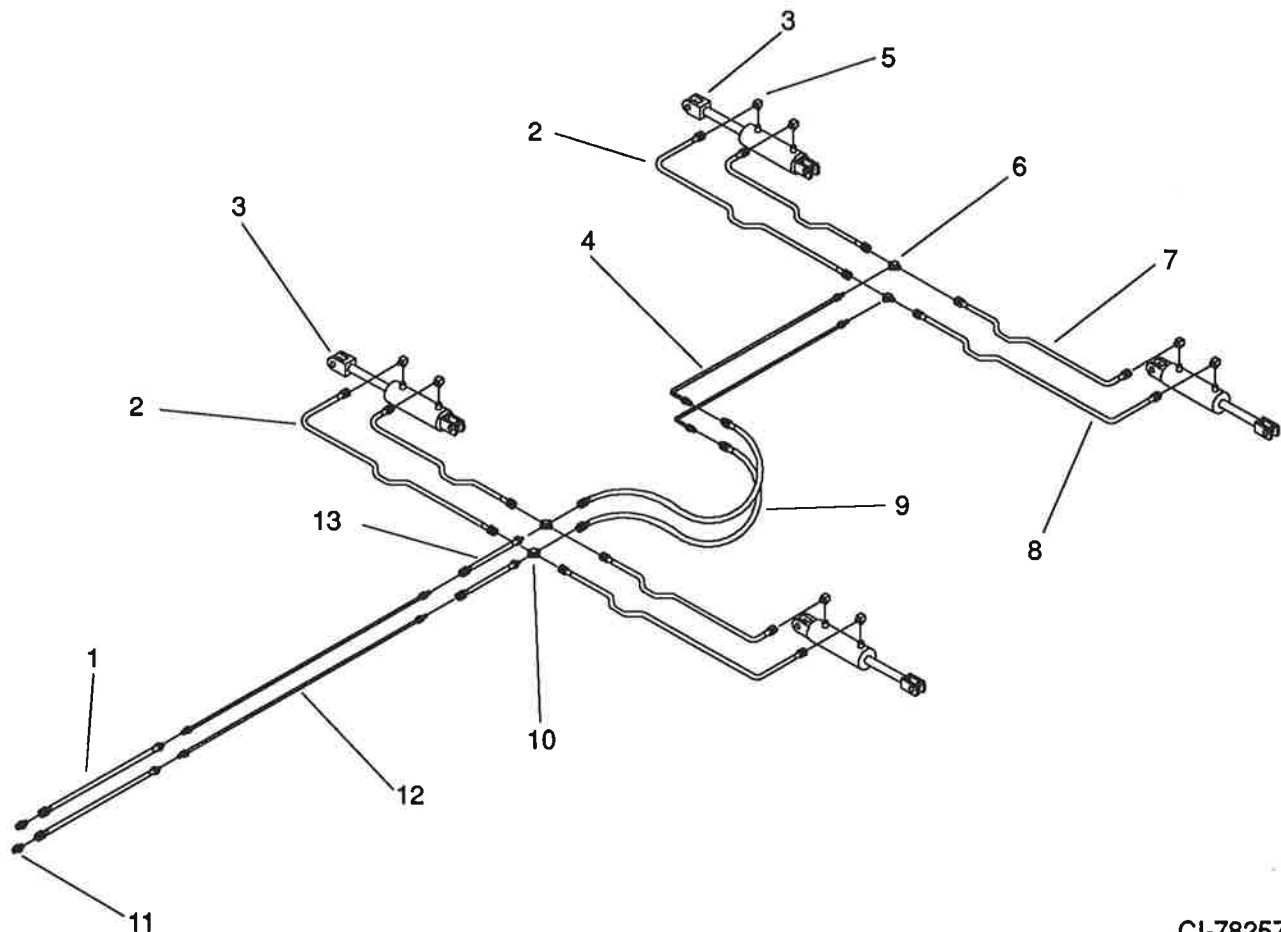
1	13269	3/8 x 84 Hose (M-F)
2	13239	3/4JIC Hose Union
3	21021	1/2 x 36+2 Tube (3411)
	20464	1/2 x 48+2 Tube (3420, 3450)
4	13265	3/8 x 56 Hose (FF) (3411)
	15515	3/8 x 62 Hose (FF) (3420)
	13268	3/8 x 78 Hose (FF) (3450)
5	51229	4 x 30 Cylinder (4'8", 7', 9'4" Wing)

ITEM PART NO. DESCRIPTION

6	13235	3/8NPT Port Elbow
7	13238	3/4JIC Tube Tee
8	13423	3/8 x 24 Hose (FF) (3411)
	13261	3/8 x 30 Hose (FF) (3420)
	14851	3/8 x 42 Hose (FF) (3450)
9	13265	3/8 x 56 Hose (FF) (3411, 3420)
	13268	3/8 x 78 Hose (FF) (3450)
10	13264	3/8 x 48 Hose (MF)
11	13253	1/2 x 120 Tube
12	13234	3/4JICx1/2NPT Coupler Adapter

WING LIFT HYDRAULICS

11'8" WING



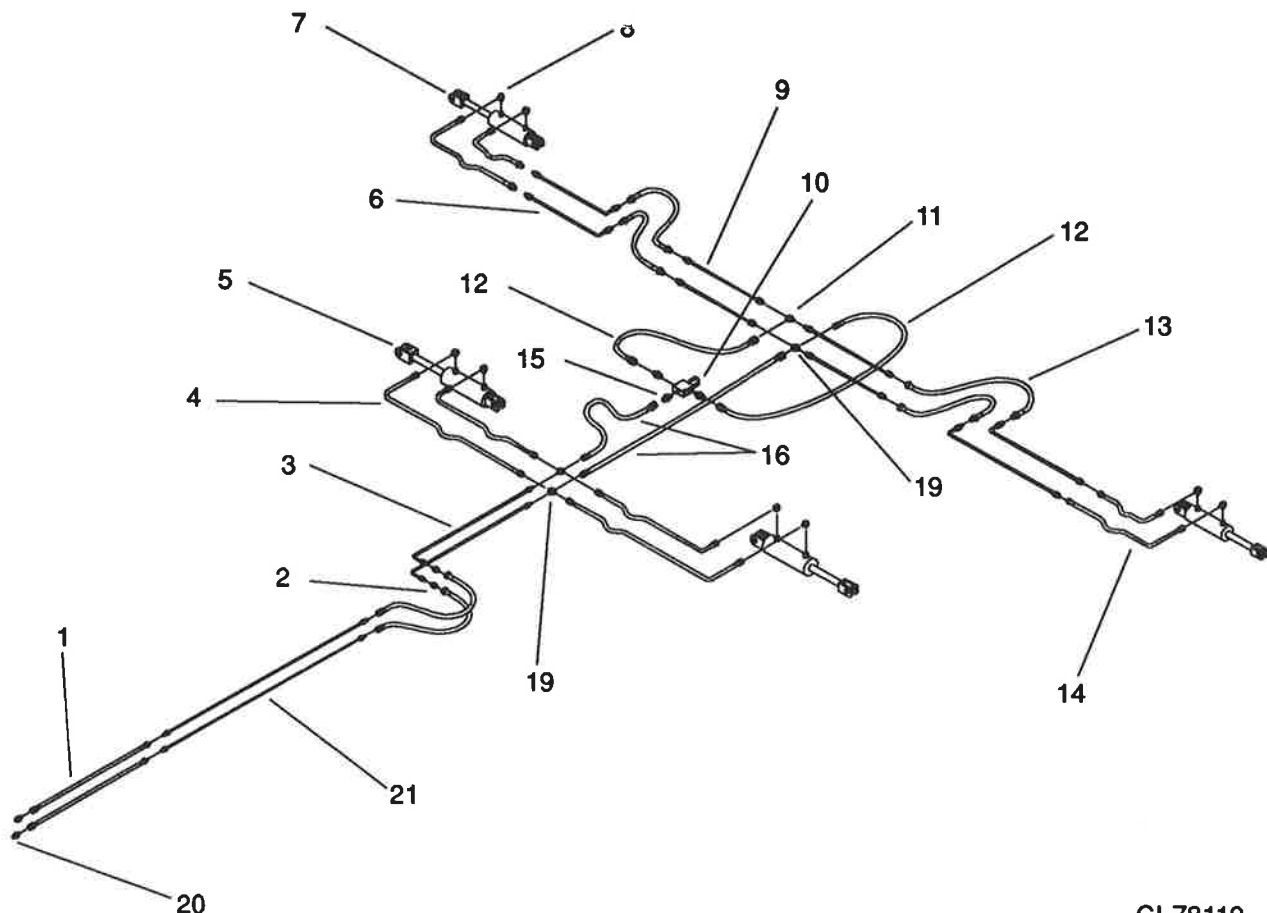
CI-78257

ITEM	PART NO.	DESCRIPTION
1	13269	3/8 x 84 Hose (MF)
2	15515	3/8 x 62 Hose (FF) (3420)
	13268	3/8 x 78 Hose (FF) (3450)
3	51229	4 x 30 Cylinder
4	20464	1/2 x 48+2 Tube
5	13235	3/4JIC x 3/8NPT Port Elbow
6	13238	3/4JIC Tube Tee

ITEM	PART NO.	DESCRIPTION
7	13261	3/8 x 30 Hose (FF) (3420)
	14851	3/8 x 42 Hose (FF) (3450)
8	13265	3/8 x 56 Hose (FF) (3420)
	13268	3/8 x 78 Hose (FF) (3450)
9	13262	3/8 x 30 Hose (MF)
10	15910	3/4JIC Tube Cross
11	13234	Coupler Adapter
12	13253	1/2 x 120 Tube
13	13259	3/8 x 18 HOSE (MF)

WING LIFT HYDRAULICS

9'4" WING W/3' & 5' OUTER WINGS



CI-78119

ITEM PART NO. DESCRIPTION

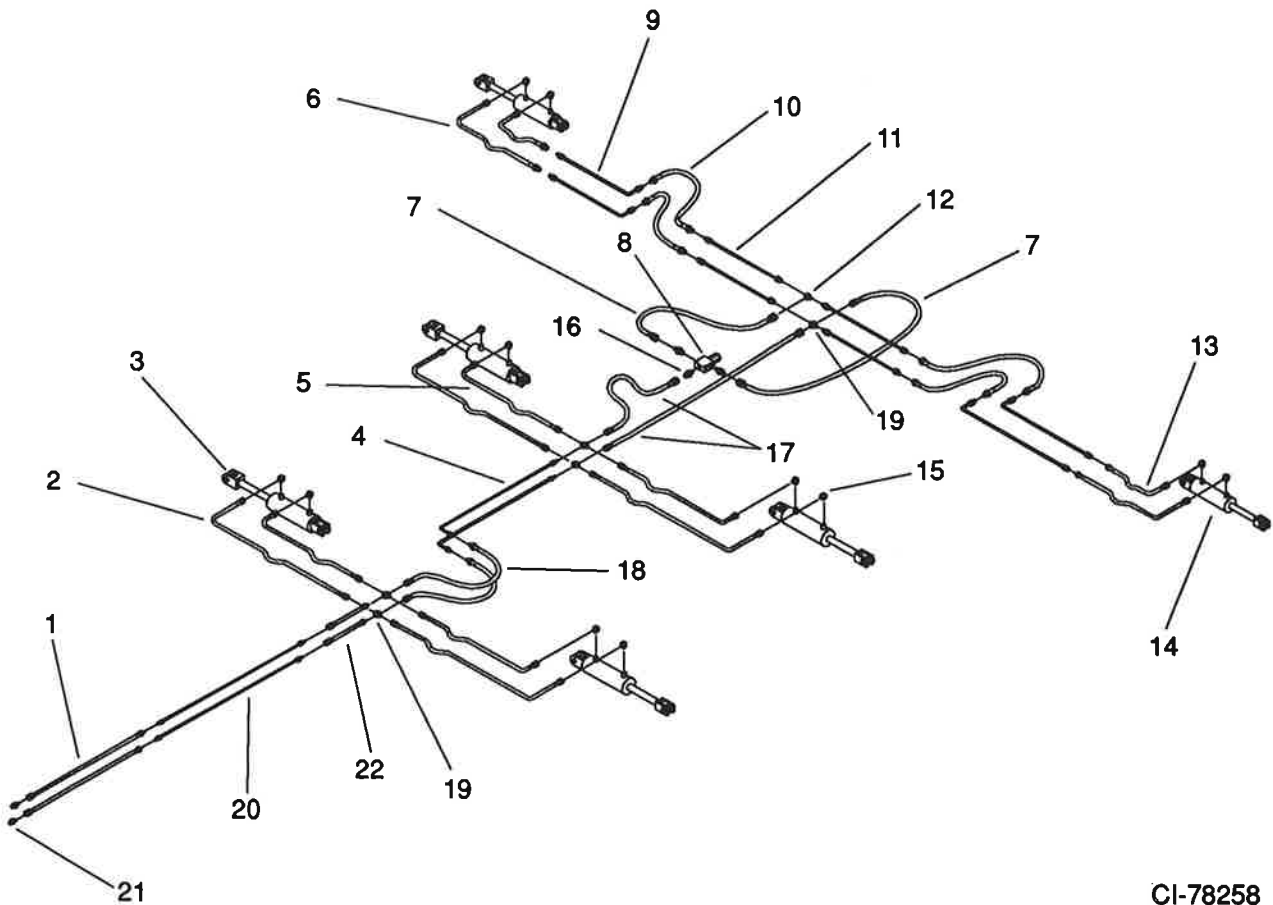
1	13269	3/8 x 84 Hose (MF)
2	13239	3/4JIC Hose Union
3	21021	1/2 x 36+2 Tube (3411)
	20464	1/2 x 48+2 Tube (3420,3450)
4	13265	3/8 x 56 Hose (FF) (3411)
	15515	3/8 x 62 Hose (FF) (3420)
	13268	3/8 x 78 Hose (FF) (3450)
5	51229	4 x 30 Cylinder
6	13258	1/2 x 60+2 Tube
7	51241	3 x 24 Cylinder
8	13235	3/4JIC x 3/8NPT Port Elbow
9	51838	1/2 x 60 Tube (3411)
	21037	1/2 x 72 Tube (3420)
	15699	1/2 x 86 Tube (3450)

ITEM PART NO. DESCRIPTION

10	51655	Sequence Valve
11	13238	3/4 Tube Tee
12	13423	3/8 x 24 (FF)
13	15995	3/8 x 24 (MM)
14	13262	3/8 x 30 (MF)
15	24024	3/4JIC x 3/4ORB Adapter
16	14850	3/8 x 18 (FF)
17	13423	3/8 x 24 Hose (FF) (3411)
	13261	3/8 x 30 Hose (FF) (3420)
	14851	3/8 x 42 Hose (FF) (3450)
18	13265	3/8 x 56 Hose (FF) (3411,3420)
	13268	3/8 x 78 Hose (FF) (3450)
19	15910	3/4 JIC Tube Cross
20	13234	3/4JIC x 1/2NPT Coupler Adapter
21	13253	1/2 x 120 Tube

WING LIFT HYDRAULICS

11'8" WING W/3' OR 5' OUTER WINGS



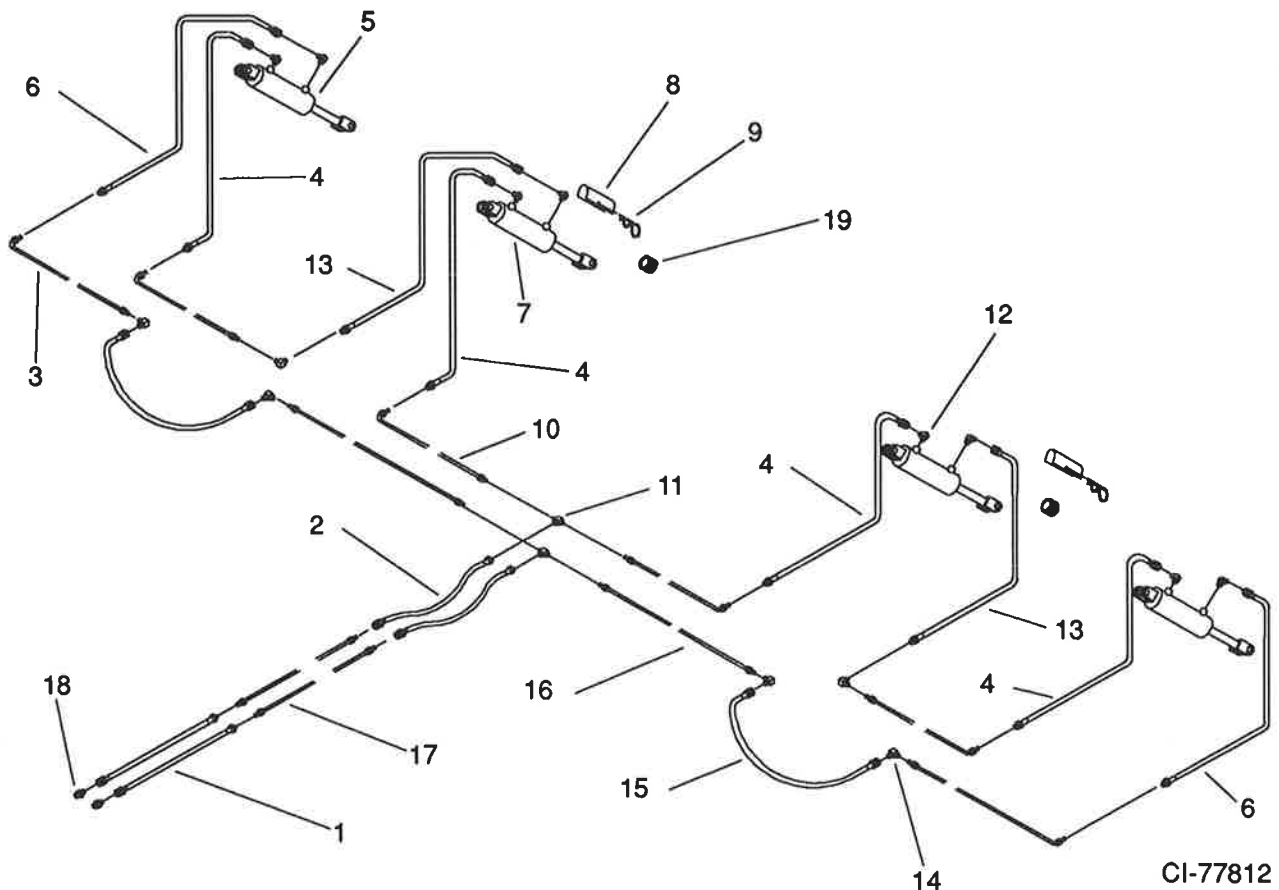
CI-78258

ITEM	PART NO.	DESCRIPTION
1	13269	3/8 X 84 Hose (MF)
2	15515	3/8 X 62 Hose (FF) (3420)
	13268	3/8 x 78 Hose (FF) (3450)
3	20966	5 x 30 Cylinder
4	20464	1/2 X 48+2 Tube
5	13261	3/8 x 30 Hose (FF) (3420)
	14851	3/8 x 42 Hose (FF) (3450)
6	13262	3/8 x 30 Hose (MF)
7	13423	3/8 x 24 (FF)
8	51655	Sequence Valve
9	21084	1/2 x 82+2 Tube
10	15995	3/8 x 24 (MM)

ITEM	PART NO.	DESCRIPTION
11	21037	1/2 x 72 Tube (3420)
	15699	1/2 x 86 Tube (3450)
12	13238	3/4JIC Tube Tee
13	13260	3/8 x 24 Hose (MF)
14	51241	3 x 24 Cylinder
15	13235	3/4JIC x 3/8NPT Port Elbow
16	24024	3/4JIC x 3/4ORB Adapter
17	14850	3/8 x 18 Hose (FF)
18	13262	3/8 x 30 Hose (MF)
19	15910	3/4JIC Tube Cross
20	13253	1/2 x 120 Tube
21	13234	3/4JIC x 1/2NPT Hose Union
22	13259	3/8 x 18 Hose (MF)

DEPTH CONTROL HYDRAULICS

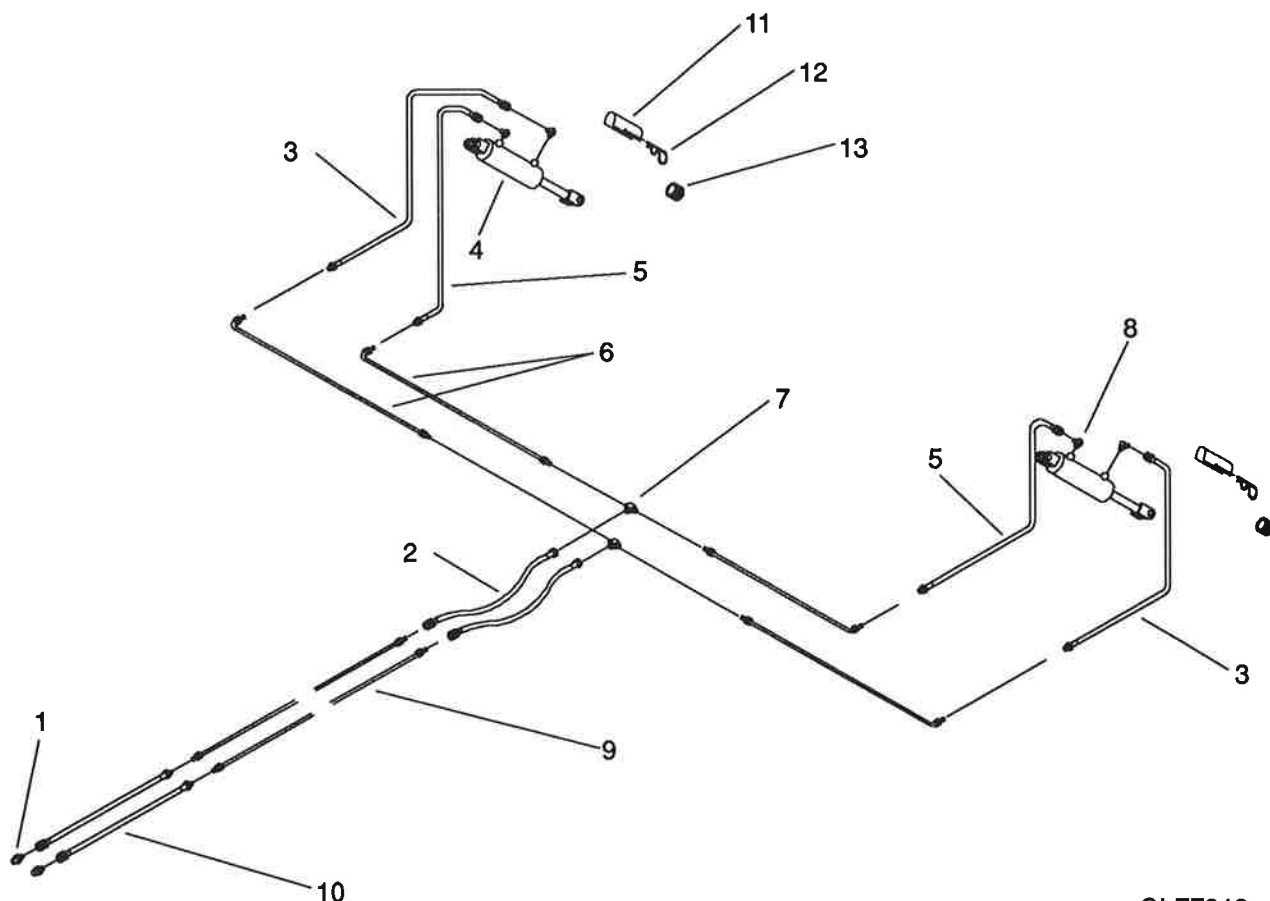
3411 W/4'8", 7' OR 9'4" WINGS



ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	13269	3/8 x 84 Hose (MF)	10	20464	1/2 x 48+2 Tube
2	13260	3/8 x 24 Hose (MF)	11	13238	3/4JIC Tube Tee
3	20510	1/2 x 38+2 Tube (4'8" Wing)	12	13236	3/4JIC x 1/2NPT Port Elbow
	13258	1/2 x 60+2 Tube (7' Wing)	13	13265	3/8 x 56 Hose (FF)
	21020	1/2 x 78+2 Tube (9'4" Wing)	14	40215	Hyd Elbow 3/4 JIC Male
4	13262	3/8 x 30 Hose (MF)	15	13261	3/8 x 30 Hose (FF)
5	42579	4x8 Top Bypass Cylinder	16	20465	1/2 x 48 Tube
6	13263	3/8 x 36 Hose (MF)	17	13253	1/2 x 120 Tube
7	42580	4x9.3 Top Bypass Cylinder	18	13234	3/4JIC x 1/2NPT Hose Union
8	13681	1-1/2" Channel Lock	19	15113	1-1/2" Stop Collar
9	42721	1/4 x 5 Spring Lock Pin			

DEPTH CONTROL HYDRAULICS

3420 RIGID



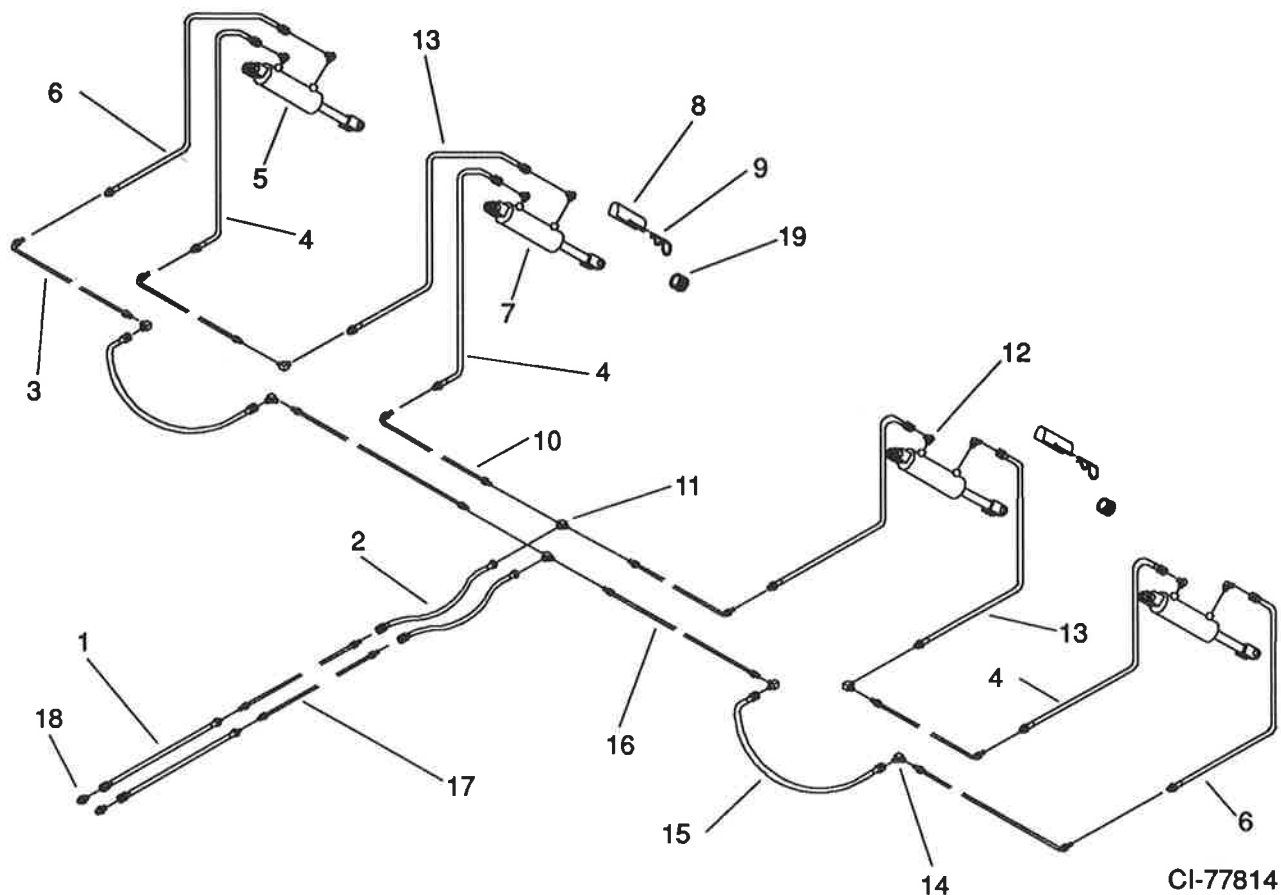
CI-77813

ITEM	PART NO.	DESCRIPTION
1	13234	3/4JIC x 1/2NPT Hose Union
2	13260	3/8 x 24 Hose (MF)
3	13264	3/8 x 48 Hose (MF)
4	42580	4 x 9.3 Top Bypass
5	13263	3/8 x 36 Hose (MF)
6	13258	1/2 x 60+2 Tube
7	13238	3/4JIC Tube Tee

ITEM	PART NO.	DESCRIPTION
8	13236	3/4JIC x 1/2NPT Port Elbow
9	13253	1/2 x 120 Tube
10	13269	3/8 x 84 Hose (MF)
11	13681	1-1/2" Channel Lock
12	42721	1/4 x 5 Spring Lock Pin
13	15113	1-1/2 Stop Collar

DEPTH CONTROL HYDRAULICS

3420 W/4'8", 7' OR 9'4" WINGS



ITEM PART NO. DESCRIPTION

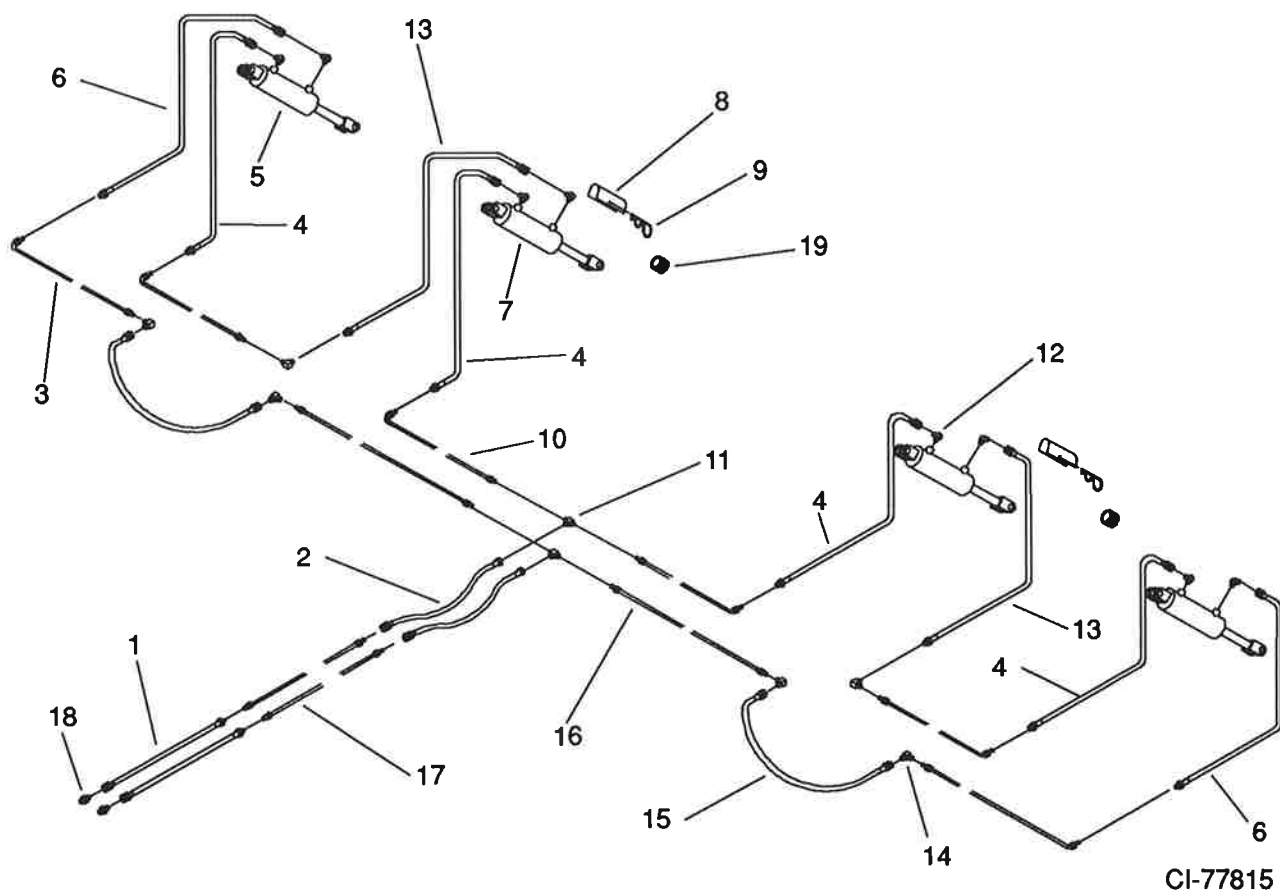
1	13269	3/8 x 84 Hose (MF)
2	13260	3/8 x 24 Hose (MF)
3	20510	1/2 x 38+2 Tube (4'8" Wing)
	13258	1/2 x 60+2 Tube (7' Wing)
	21020	1/2 x 78+2 Tube (9'4" Wing)
4	13262	3/8 x 30 Hose (MF)
5	42579	4 x 8 Top Bypass Cylinder
6	13263	3/8 x 36 Hose (MF)
7	42580	4 x 9.3 Top Bypass Cylinder
8	13681	1-1/2" Channel Lock
9	42721	1/4 x 5 Spring Lock Pin

ITEM PART NO. DESCRIPTION

10	13258	1/2 x 60+2 Tube
11	13238	3/4JIC Tube Tee
12	13236	3/4JIC x 1/2NPT Port Elbow
13	13265	3/8 x 56 Hose (FF)
14	40215	Hyd Elbow 3/4 JIC Male
15	13261	3/8 x 30 Hose (FF)
16	15811	1/2 x 65 Tube
17	13253	1/2 x 120 Tube
18	13234	3/4JIC x 1/2NPT Hose Union
19	15113	1-1/2 Stop Collar

DEPTH CONTROL HYDRAULICS

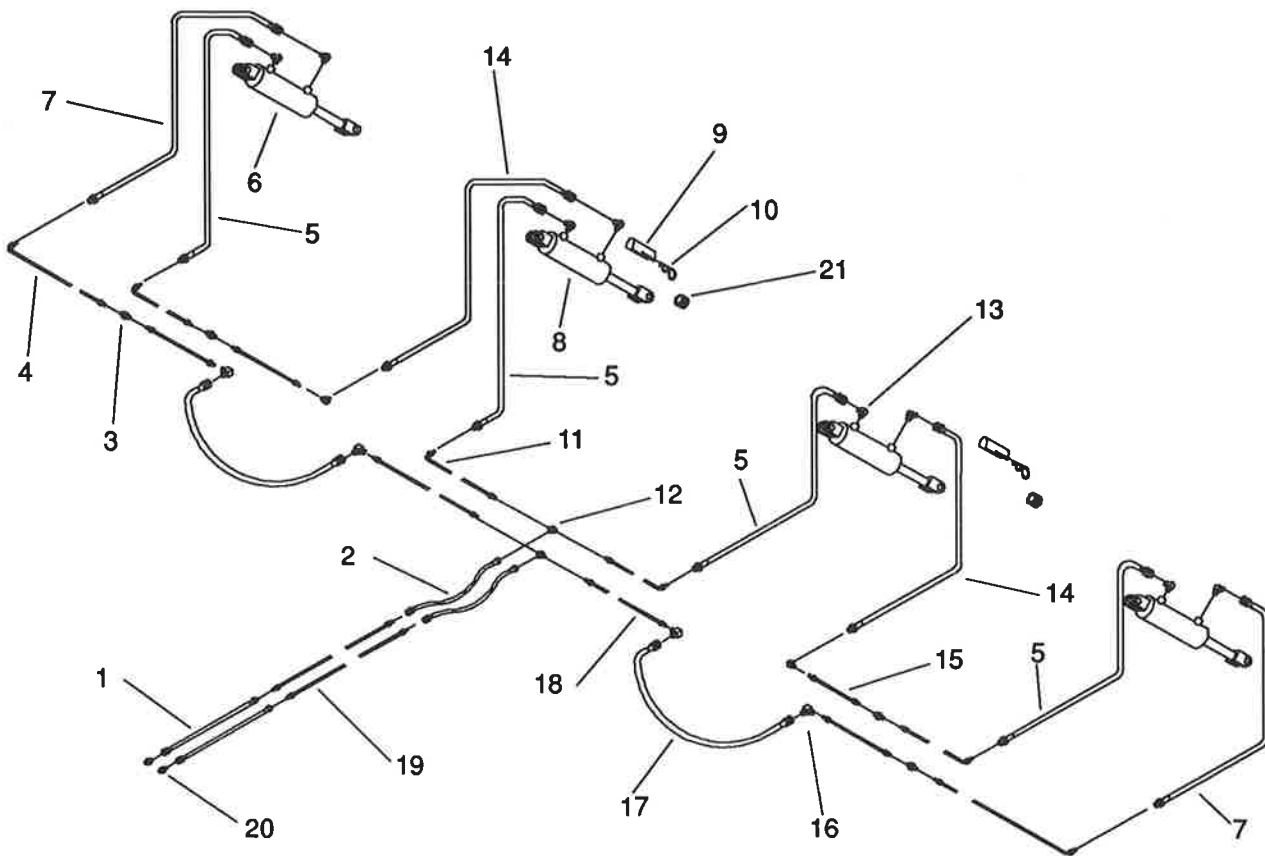
3450 W/4'8", 7' OR 9'4" WINGS



ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	13269	3/8 x 84 Hose (MF)	10	21020	1/2 x 78+2 Tube
2	13260	3/8 x 24 Hose (MF)	11	13238	3/4 JIC Tube Tee
3	20510	1/2 x 38+2 Tube (4'8" Wing)	12	13236	3/4 JIC x 1/2 NPT Port Elbow
	13258	1/2 x 60+2 Tube (7' Wing)	13	13265	3/8 x 56 Hose (FF)
	21020	1/2 x 78+2 Tube (9'4" Wing)	14	40215	Hyd Elbow 3/4 JIC Male
4	13262	3/8 x 30 Hose (MF)	15	13261	3/8 x 30 Hose (FF)
5	42579	4 x 8 Top Bypass Cylinder	16	15811	1/2 x 65 Tube
6	13263	3/8 x 36 Hose (MF)	17	13253	1/2 x 120 Tube
7	42580	4 x 9.3 Top Bypass Cylinder	18	13234	3/4 JIC x 1/2 NPT Hose Union
8	13681	1-1/2" Channel Lock	19	15113	1-1/2 Stop Collar
9	42721	1/4 x 5 Spring Lock Pin			

DEPTH CONTROL HYDRAULICS

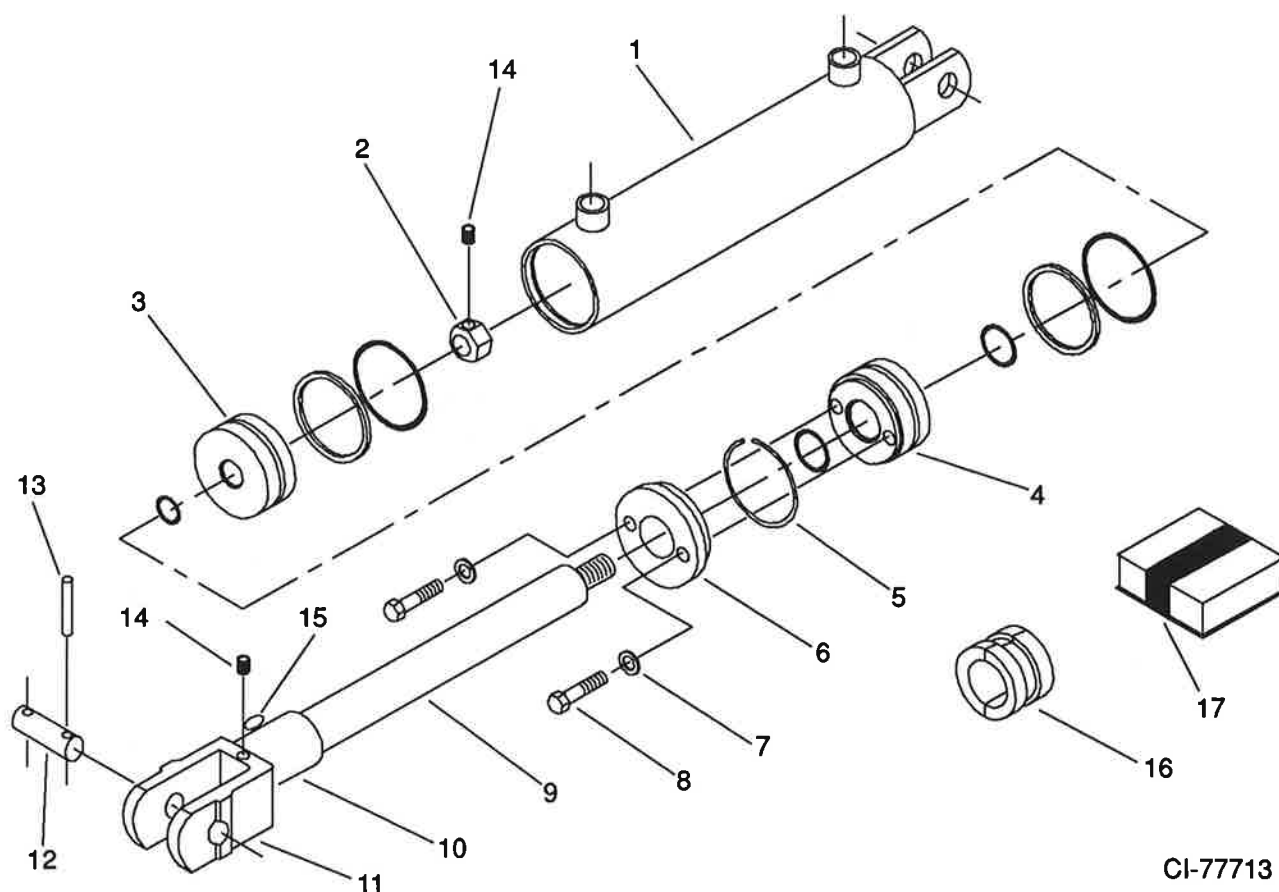
3450 W/11'8" WINGS



CI-77816

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	13269	3/8 x 84 Hose (MF)	11	21020	1/2 x 78+2 Tube
2	13260	3/8 x 24 Hose (MF)	12	13238	3/4JIC Tube Tee
3	13239	3/4JIC Hose Union	13	13236	3/4JIC x 1/2NPT Port Elbow
4	21020	1/2 x 78+2 Tube	14	13265	3/8 x 56 Hose (FF)
5	13262	3/8 x 30 Hose (MF)	15	21108	1/2 x 26 Tube
6	42579	4 x 8 Top Bypass Cylinder	16	40215	Hyd Elbow 3/4 JIC Male
7	13263	3/8 x 36 Hose (MF)	17	13261	3/8 x 30 Hose (FF)
8	42580	4 x 9.3 Top Bypass Cylinder	18	13254	1/2 x 80 Tube
9	13681	Channel Lock	19	13253	1/2 x 120 Tube
10	42721	1/4 x 5 Spring Lock Pin	20	13234	3/4JIC x 1/2NPT Hose Union
			21	15113	1-1/2 Stop Collar

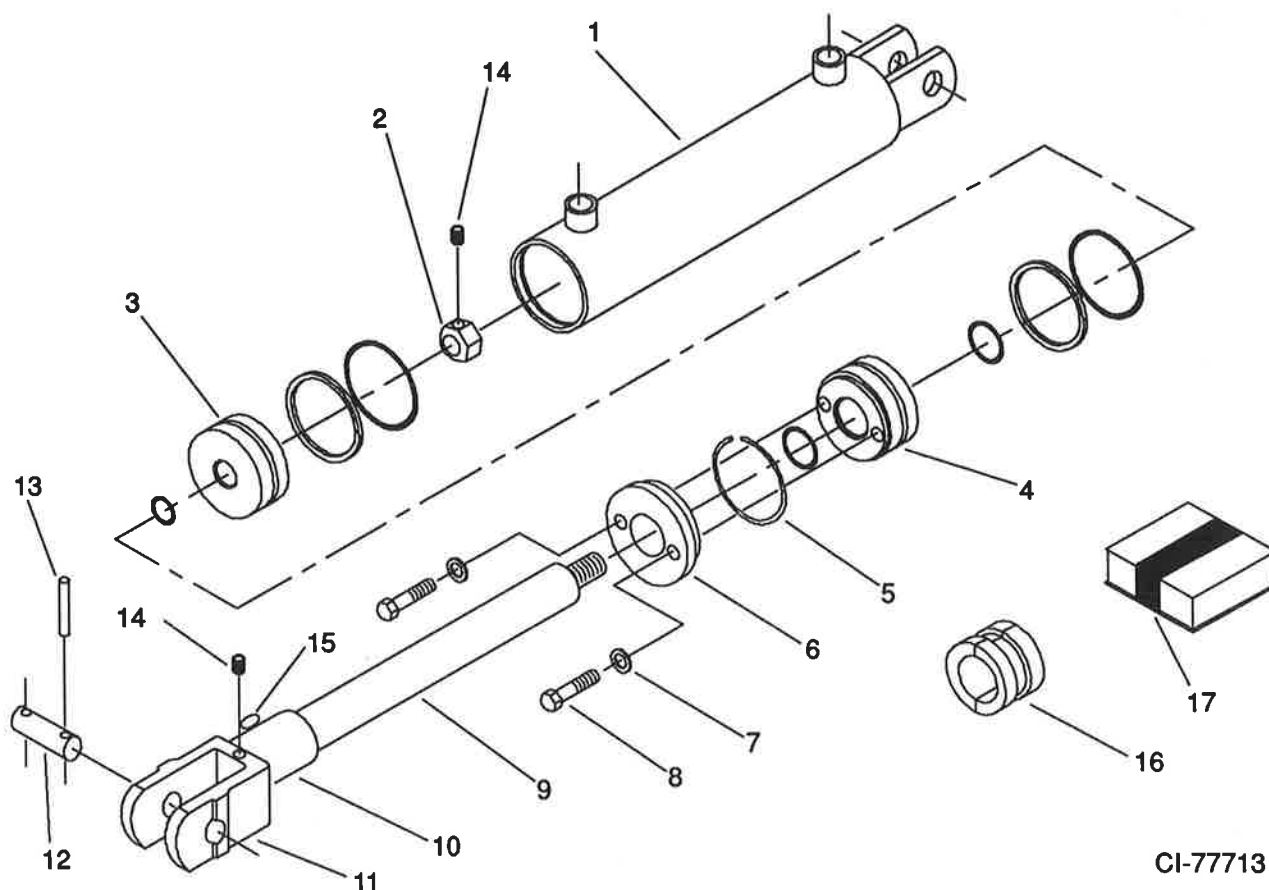
4 x 8 TOP BYPASS



ITEM	PART NO.	DESCRIPTION
	42579	4 x 8 Top Bypass Cylinder (Series PX)
	14523	4 x 8 Top Bypass Cylinder (Series PB)
1	42573	Cylinder Tube
2	14824	Piston Lock Nut
3	42577	Piston
4	42576	End Gland
5	12286	Snap Ring 4"
6	13851	Stop Plate 4 x 8
7	88362	Lock Washer 3/8
8	88553	Bolt 3/8NC x 1-1/2 GR5

ITEM	PART NO.	DESCRIPTION
9	13569	Cylinder Rod 4 x 8 (SS)
10	13570	Stop Collar Screw Stop
11	14822	Cylinder Yoke
12	42473	Cylinder Pin
13	42484	Cylinder Lock Pin
14	88706	Set Screw 5/16NC x 5/16
15	88387	Thumb Screw 3/8NC x 3/4
16	15113	Stop Collar 1-1/2
17	42664	Seal Kit (Series PX - All)
	14906	Seal Kit (Series #PE - All)

4 x 9.3 TOP BYPASS



CI-77713

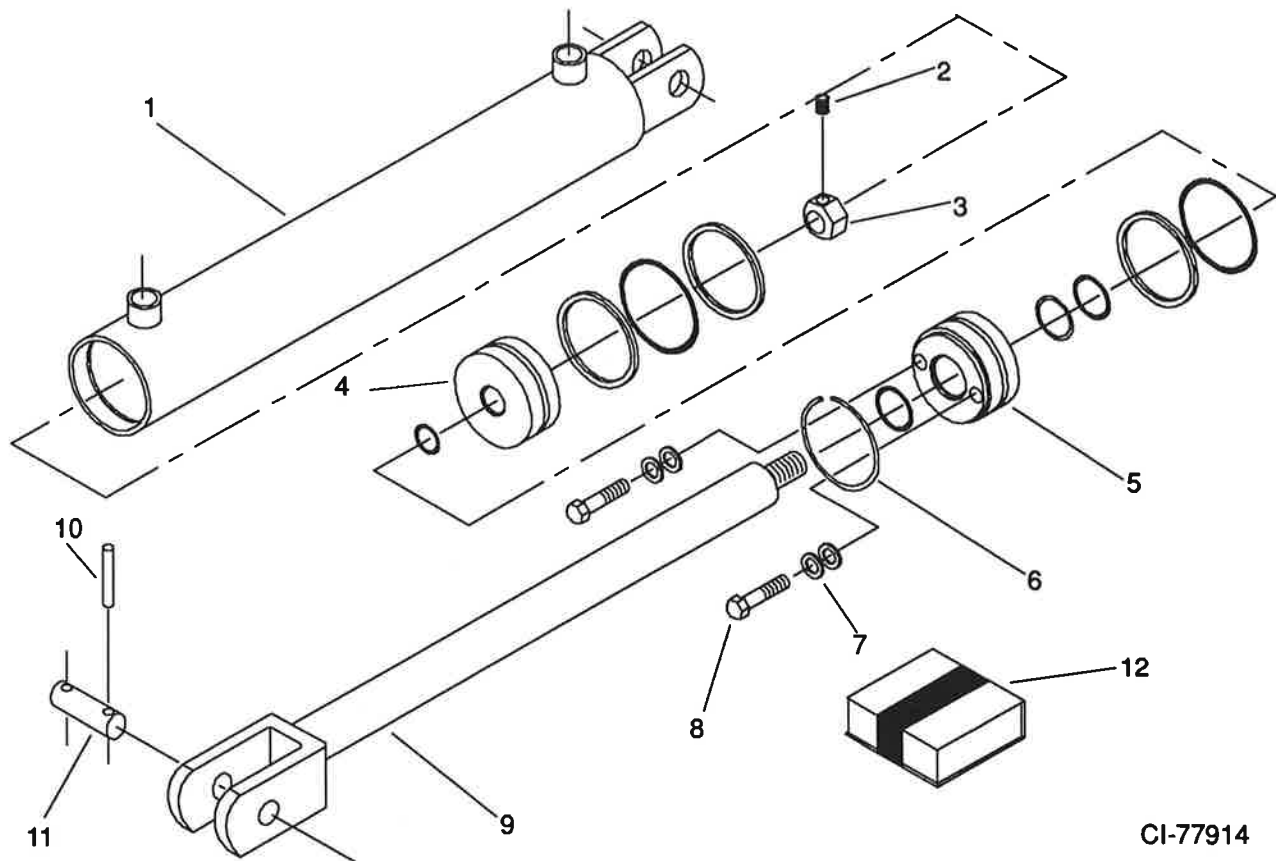
ITEM PART NO. DESCRIPTION

	16211	4 x 9.3 Top Bypass Cylinder (Series #PE)
	42580	4 x 9.3 Top Bypass Cylinder (Series #PY)
1	42574	Cylinder Tube
2	14824	Piston Lock Nut
3	42577	Piston
4	42576	End Gland
5	12286	Snap Ring 4"
6	13851	Stop Plate 4 x 8
7	88362	Lock Washer 3/8

ITEM PART NO. DESCRIPTION

8	88553	Bolt 3/8NC x 1-1/2 GR5
9	16221	4 x 9.3 Cylinder Rod
10	13570	Stop Collar Screw Stop
11	14822	Cylinder Yoke
12	42473	Cylinder Pin
13	42484	Cylinder Lock Pin
14	88706	Set Screw 5/16NC x 5/16
15	88387	Thumb Screw 3/8NC x 3/4
16	15113	Stop Collar 1-1/2
17	42664	Seal Kit (Series # PY-All)
	14906	Seal Kit (#PE - All)

4 x 30 STANDARD

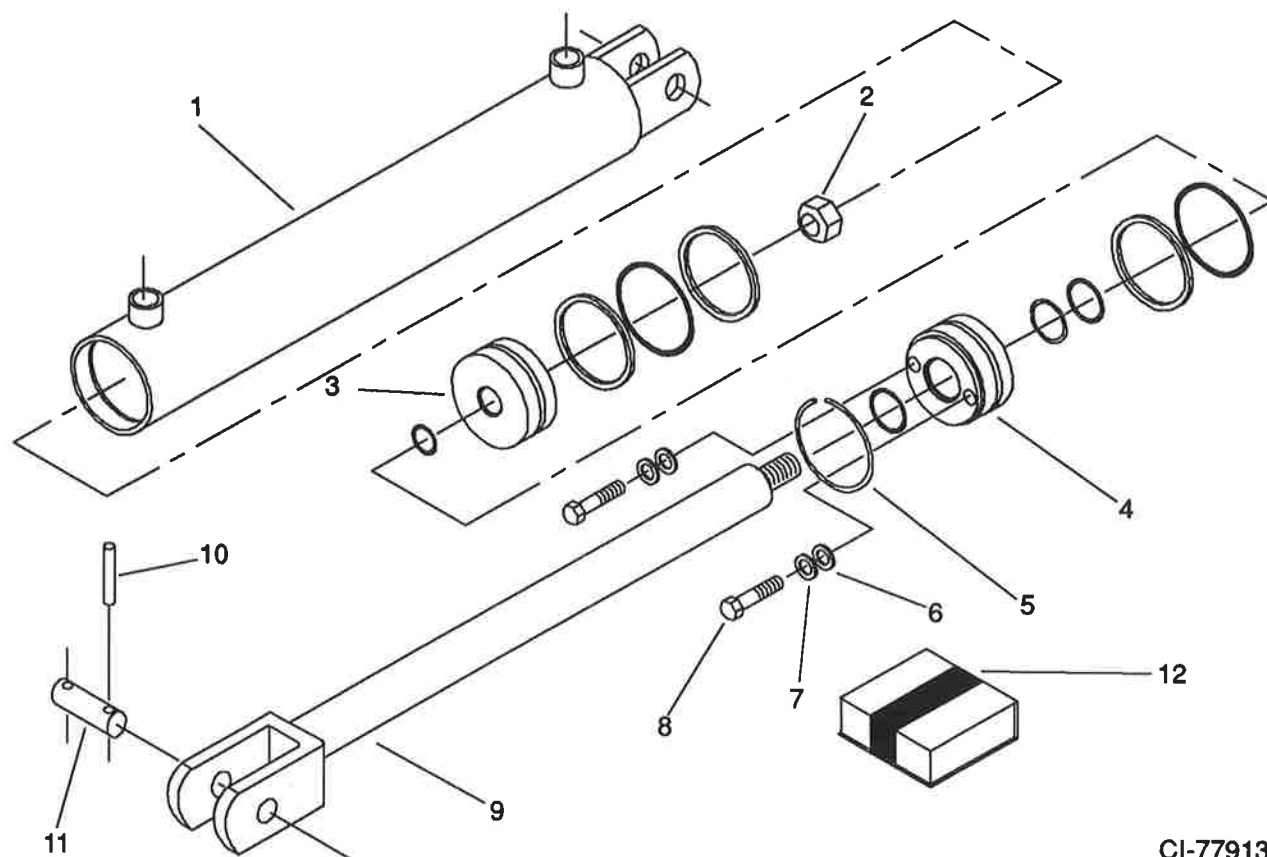


CI-77914

ITEM	PART NO.	DESCRIPTION
	20960	4 x 30 Standard (Series #KA)
	51229	4 x 30 Standard (Series #RD)
1	20961	Cylinder Tube Assembly
2	88706	Set Screw 5/16NC x 5/16
3	14824	Piston Lock Nut
4	12282	Piston
5	42576	4" Cylinder Gland

ITEM	PART NO.	DESCRIPTION
6	12286	4" Snap Ring
7	88278	5/16 Flat Washer
8	88566	3/8NC x 3/4 Bolt
9	20963	Cylinder Rod Assembly
10	42484	Cylinder Lock Pin
11	42473	Cylinder Pin
12	14907	Seal Kit (Series # KA - All)
	51212	Seal Kit (Series # RD - All)

5 x 30 STANDARD

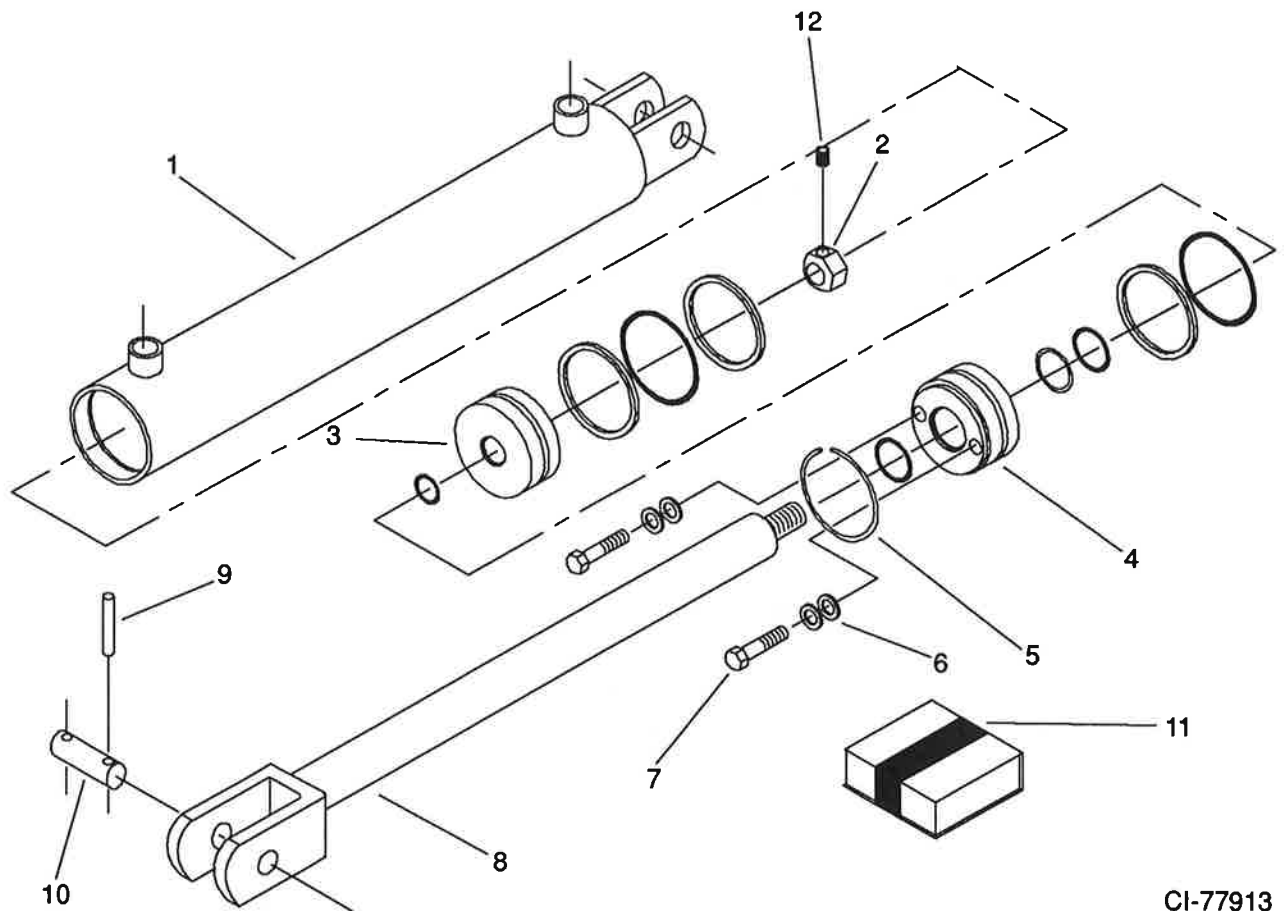


CI-77913

ITEM	PART NO.	DESCRIPTION
	20966	5 x 30 Standard
1	20967	Cylinder Tube Assembly
2	42082	1-1/2NF Piston Nut
3	13293	Piston
4	13294	5" Cylinder Gland
5	12324	5" Snap Ring
6	47802	Snap Ring Washer

ITEM	PART NO.	DESCRIPTION
7	88278	5/16 Flat Washer
8	88566	3/8 NC x 3/4 Bolt
9	20969	5 x 30 Cylinder Rod Assembly
10	42484	Cylinder Lock Pin
11	42473	Cylinder Pin
12	14908	Seal Kit (Series #GA)
	52326	Seal Kit (Series #AD)

3 x 24 STANDARD

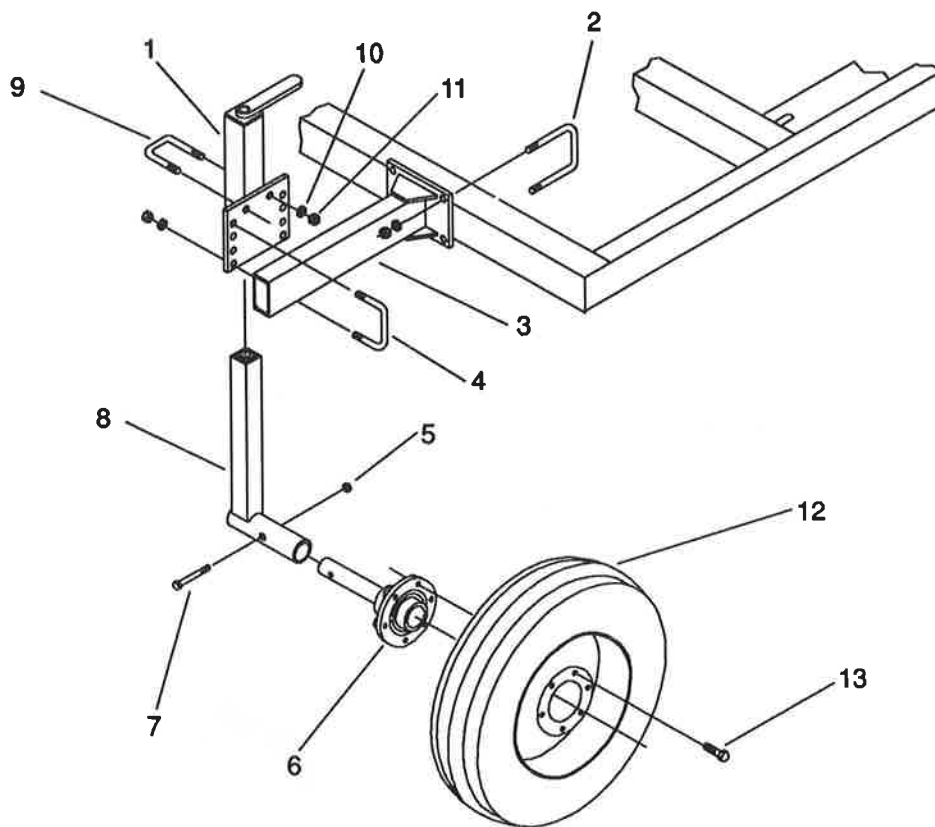


CI-77913

ITEM	PART NO.	DESCRIPTION
	51241	3 x 24 Standard
1	12310	Cylinder Tube Assembly
2	14824	1-1/2NF Piston Nut
3	12308	Piston
4	51206	3" Cylinder Gland
5	12303	3" Snap Ring
6	88855	1/4SAE Flat Washer

ITEM	PART NO.	DESCRIPTION
7	88190	1/4NC x 1/2 Bolt
8	13526	3 x 24 Cylinder Rod Assembly
9	42484	Cylinder Lock Pin
10	42473	Cylinder Pin
11	51210	Seal Kit (Series #RL-All)
12	88706	5/16NC x 5/16 Set Screw

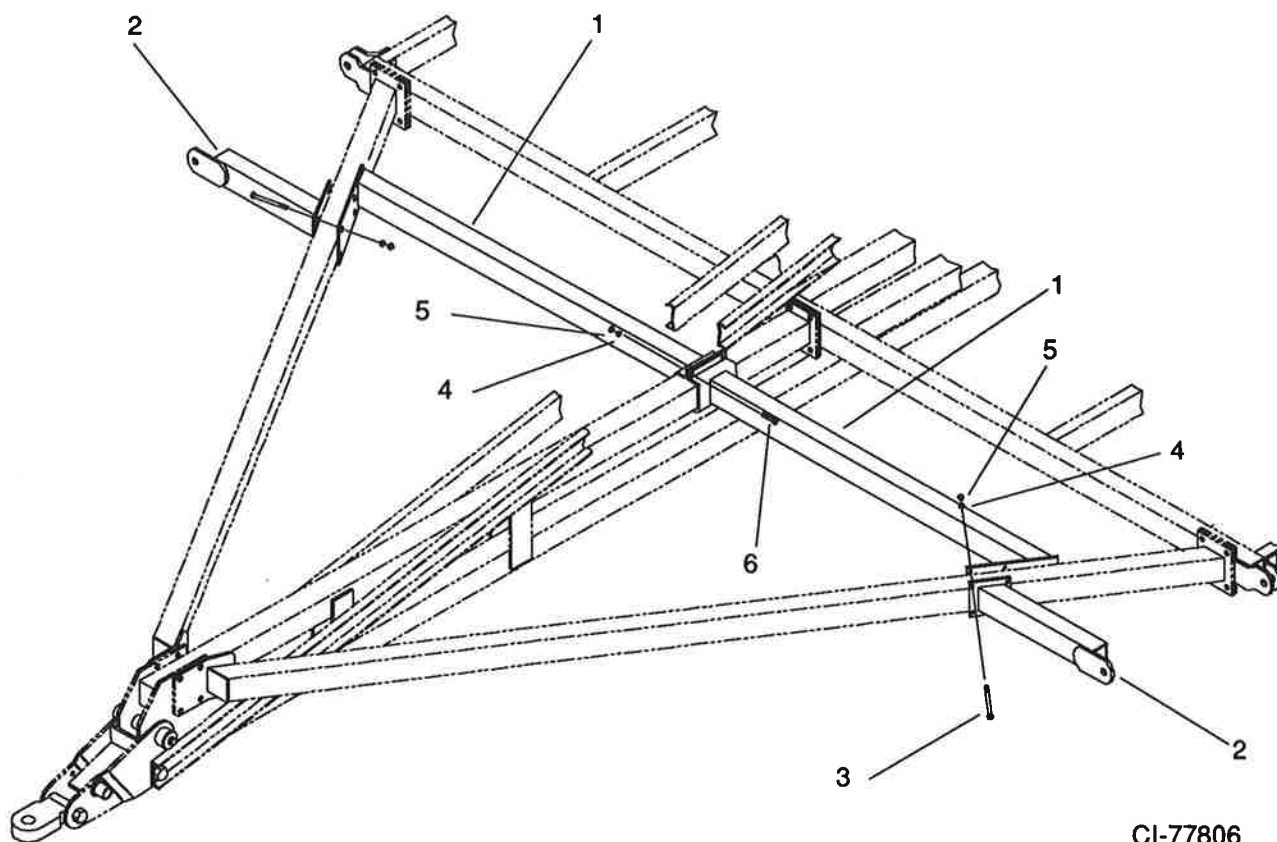
GAUGE WHEEL



CI-77861

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	15485	Top Adjustment Assembly	8	26774	Gauge Wheel Leg
2	88501	5/8NC x 4 x 4-1/4 U-Bolt	9	88311	5/8NC x 2-1/2 x 3-3/4 U-Bolt
3	15321	Gauge Wheel Mount	10	88129	5/8 Lock Washer
4	88388	5/8NC x 4 x 3-1/4 U-Bolt	11	88126	5/8NC Nut
5	88304	1/2NF Lock Nut	12	13142	95L x 15 Wheel Assembly
6	41233	1-3/4 Hub & Spindle		10236	Wheel Rim 15 x 6 6Bolt
7	88313	1/2NF x 3 GR5 Bolt		11950	Tire 95L x 15 6 Ply
			13	88142	1/2NF x 1 Wheel Bolt

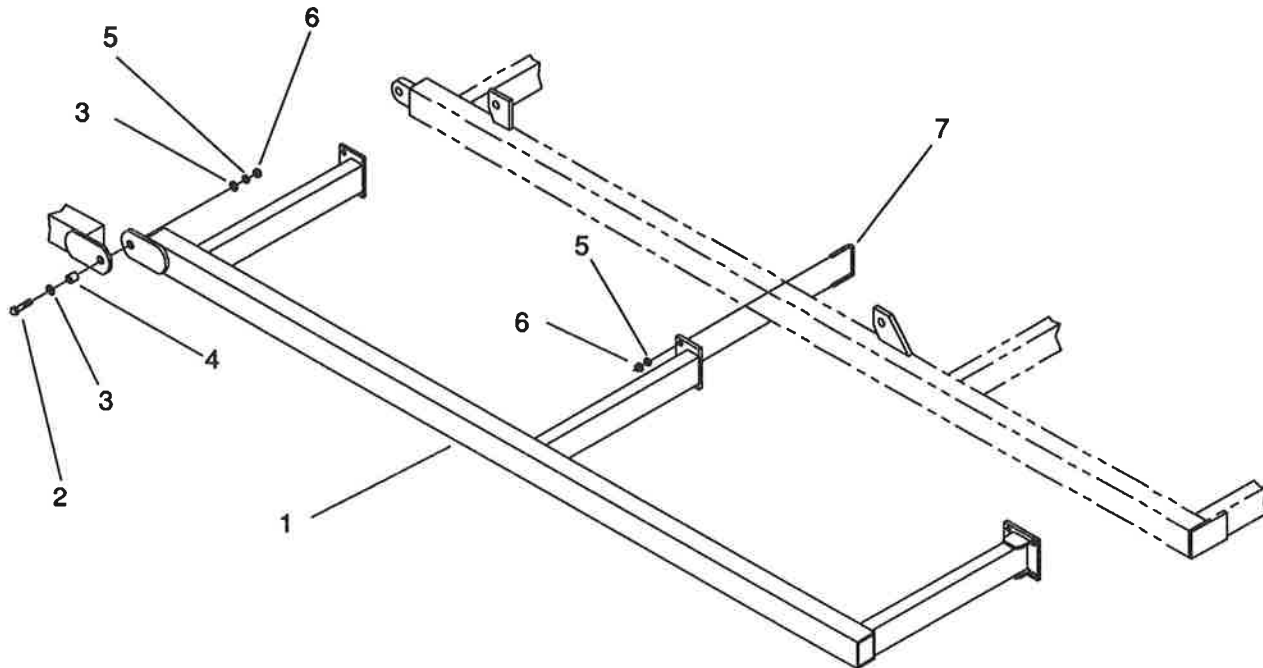
5th BAR MAIN FRAME



ITEM	PART NO.	DESCRIPTION
1	48539	9'4" 5th Bar Center
	48541	11'8" 5th Bar Center
	48543	14' 5th Bar Center
2	48540	9'4" 5th Bar Hinge
	48542	11'8" 5th Bar Hinge
	48544	14' 5th Bar Hinge

ITEM	PART NO.	DESCRIPTION
3	88574	1/2NC x 5-1/2 GR5 Bolt
4	88303	1/2 Lock Washer
5	88104	1/2NC Nut
6	88475	1/2NC x 1-1/2 GR5 Bolt

5th BAR WING

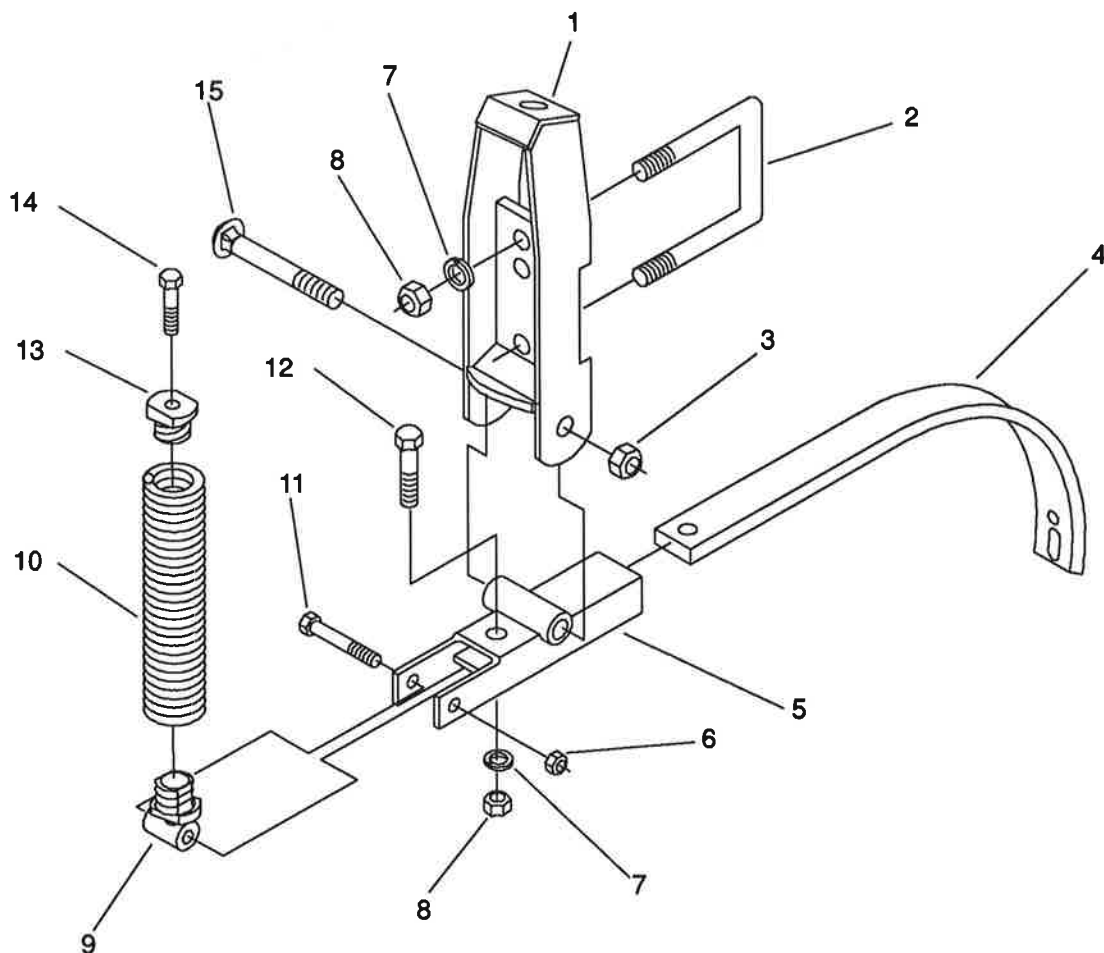


CI-77807

ITEM	PART NO.	DESCRIPTION
1	48546	4'8" 5th Bar Wing Frame
	48547	7' 5th Bar Wing Frame
	48548	9'4" 5th Bar Wing Frame
	48549	11' 8" 5th Bar Wing Frame
2	88294	5/8NC x 2 GR5 Bolt

ITEM	PART NO.	DESCRIPTION
3	88277	5/8 Flat Washer
4	48672	5th Bar Hinge Bushing (.656ID x 1"OD x 1.06)
5	88129	5/8 Lock Washer
6	88126	5/8NC Nut
7	88501	5/8NC x 4 x 4-1/4 U-Bolt

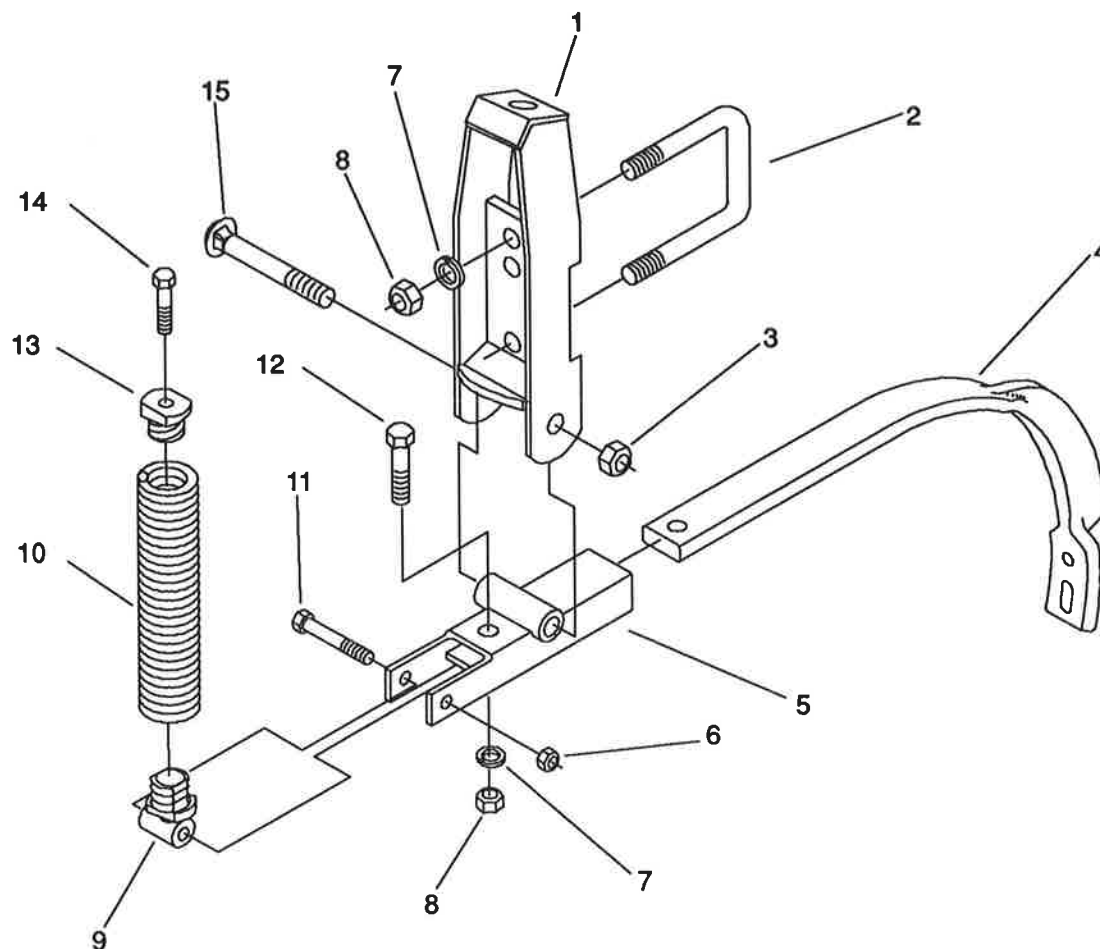
C-SHANK ASSEMBLY



CI-77908

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	20570	FC Shank Assembly (4") (Includes Items 1,3-6&9-15)	7	88129	5/8 Lock Washer
	11540	Spring Plug Assembly (Includes 9-10 & 13)	8	88126	5/8NC Nut
1	20569	Shank to Frame Bracket (4")	9	11397	Spring Handle
2	88501	5/8NC x 4 x 4-1/4 U-Bolt	10	11510	Spring
3	22463	3/4NF Lock Nut	11	20637	1/2NF x 3 Bolt GR5 223691
4	11511	Shank	12	88294	5/8NC x 2 GR5 Bolt
5	11509	Shank Holder Assembly	13	11398	Spring Plug
6	88304	1/2NF Lock Nut	14	21966	1/2NC x 2-1/2 Bolt GR2 23153
			15	15579	Shank Carriage Bolt

EDGE FORMED C-SHANK ASSEMBLY



CI-78230

ITEM PART NO. DESCRIPTION

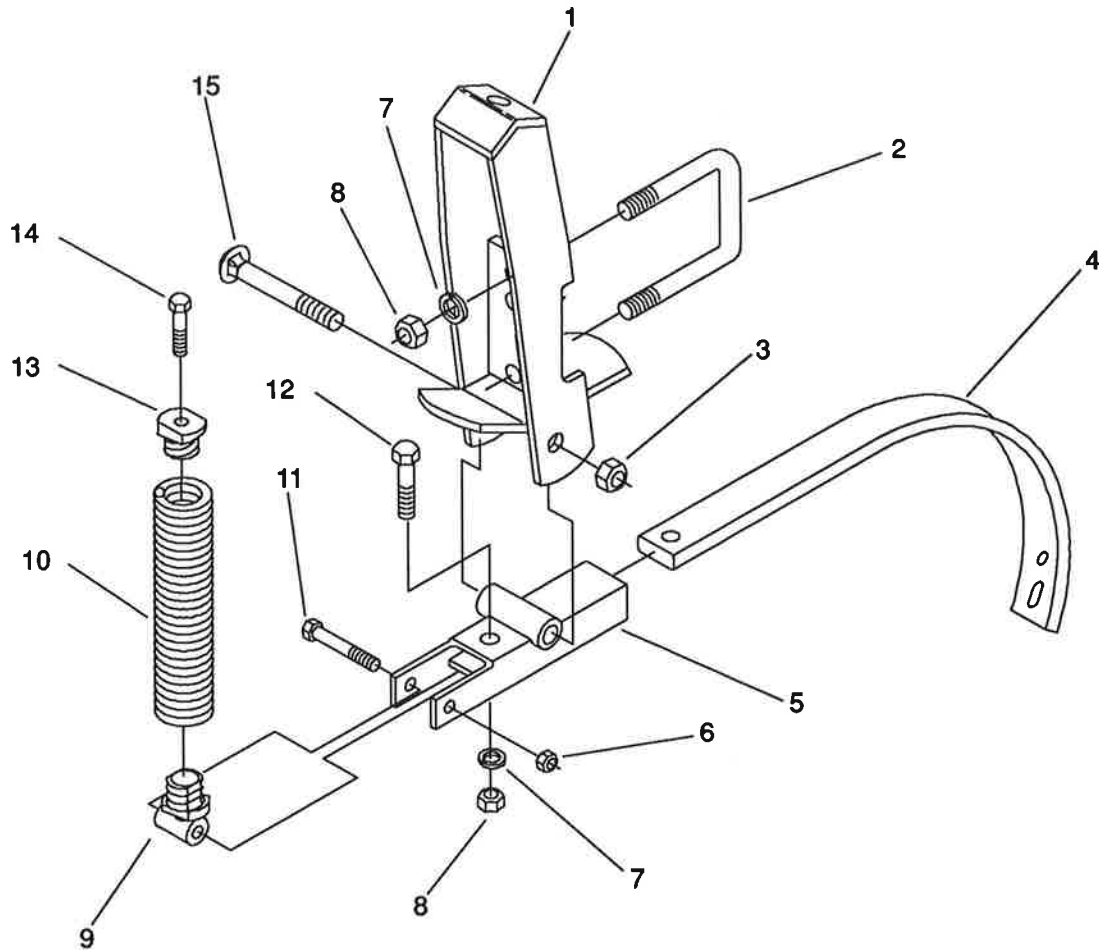
	53405	FC Shank Assembly (4") (Includes Items 1,3-6&9-15)
	11540	Spring Plug Assembly (Includes 9-10 & 13)
1	20569	Shank to Frame Bracket (4")
2	88501	5/8NC x 4 x 4-1/4 U-Bolt
3	22463	3/4NF Lock Nut
4	53408	Edge Formed FC Shank
5	11509	Shank Holder Assembly
6	88304	1/2NF Lock Nut

ITEM PART NO. DESCRIPTION

7	88129	5/8 Lock Washer
8	88126	5/8NC Nut
9	11397	Spring Handle
10	11510	Spring
11	20607	1/2NF x 3 Bolt GR5 223691
12	88294	5/8NC x 2 GR5 Bolt
13	11398	Spring Plug
14	21966	1/2NC x 2-1/2 Bolt GR2
15	15579	Shank Carriage Bolt

23153

HI-TORQUE SHANK ASSEMBLY

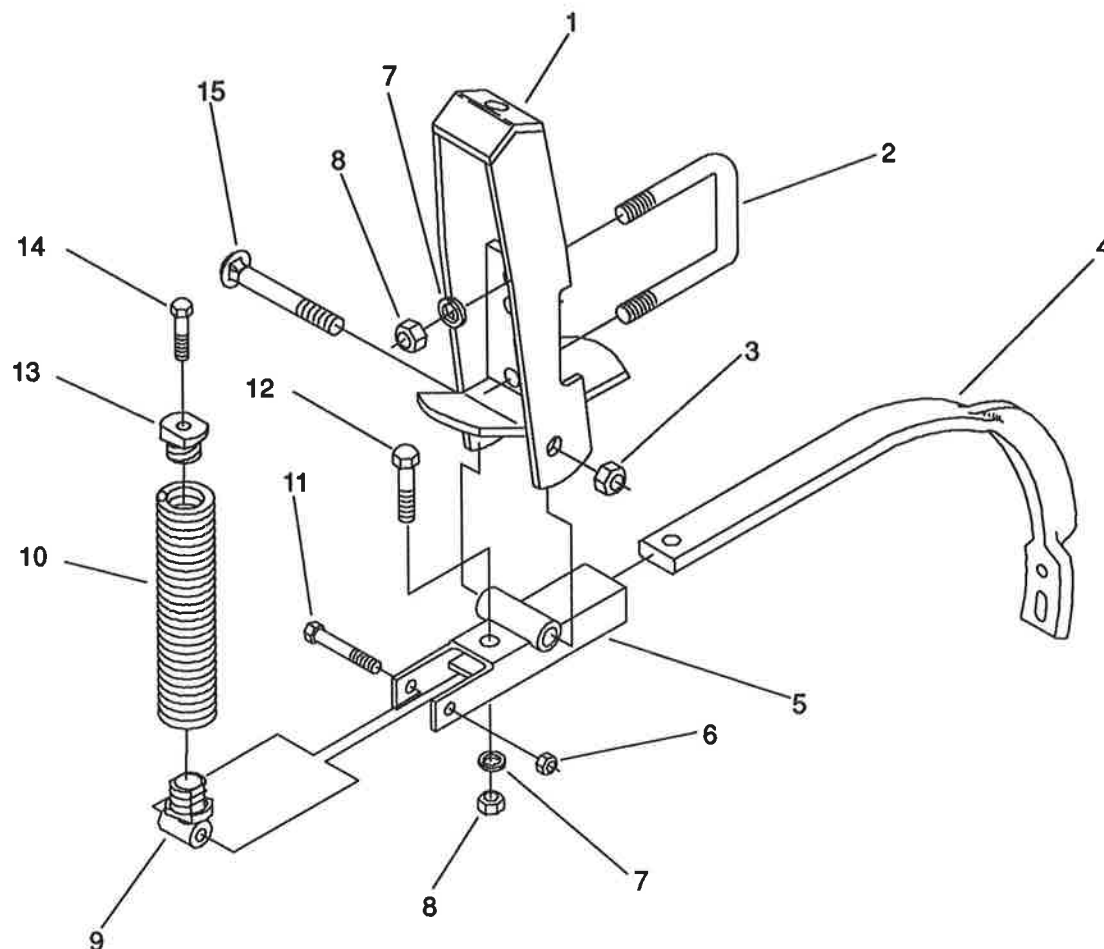


CI-77910

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	41892	Hi-Torque FC Shank Assy (Includes Items 1,3-6&9-15)	6	88304	1/2NF Lock Nut
	11540	Spring Plug Assembly (Includes 9-10 & 13)	7	88129	5/8 Lock Washer
1	41891	Hi-Torque Shank Frame Bracket	8	88126	5/8NC Nut
2	88501	5/8NC x 4 x 4-1/4 U-Bolt	9	11397	Spring Handle
3	47926	3/4NF Lock Nut	10	11510	Spring
4	11511	FC Shank	11	20637	1/2NF x 3 Bolt GR5 22369!
5	27050	Shank Holder Assembly	12	88294	5/8NC x 2 Bolt GR5
			13	11398	Spring Plug
			14	21966	1/2NC x 2-1/2 Bolt GR2
			15	15579	Shank Carriage Bolt

23153

EDGE FORMED HI-TORQUE SHANK ASSEMBLY

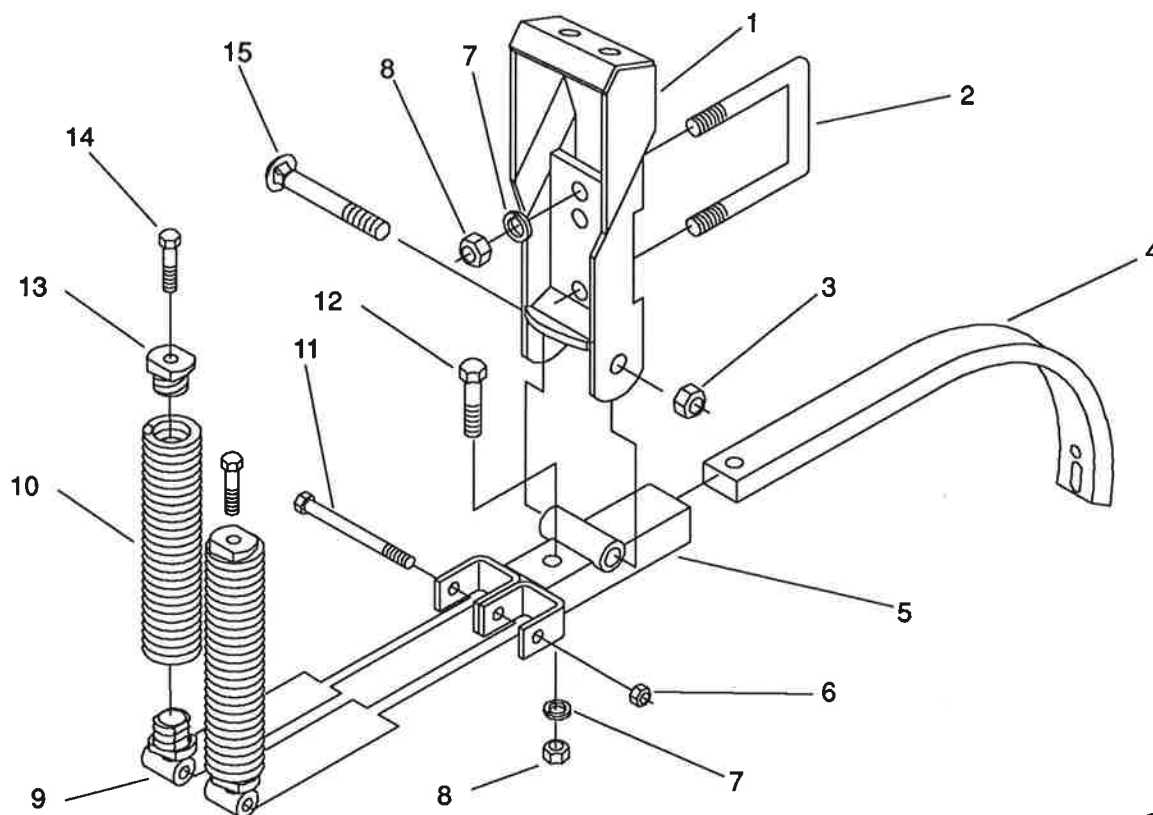


CI-78231

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	53406	Hi-Torque FC Shank Assy (Includes Items 1,3-6&9-15)	6	88304	1/2NF Lock Nut
	11540	Spring Plug Assembly (Includes 9-10 & 13)	7	88129	5/8 Lock Washer
1	41891	Hi-Torque Shank Frame Bracket	8	88126	5/8NC Nut
2	88501	5/8NC x 4 x 4-1/4 U-Bolt	9	11397	Spring Handle
3	47926	3/4NF Lock Nut	10	11510	Spring
4	53408	Edge Formed FC Shank	11	20607	1/2NF x 3 Bolt GR5 223691
5	27050	Shank Holder Assembly	12	88294	5/8NC x 2 Bolt GR5
			13	11398	Spring Plug
			14	21955	1/2NC x 2-1/2 Bolt GR2
			15	15579	Shank Carriage Bolt

23153

TWIN SPRING SHANK ASSEMBLY



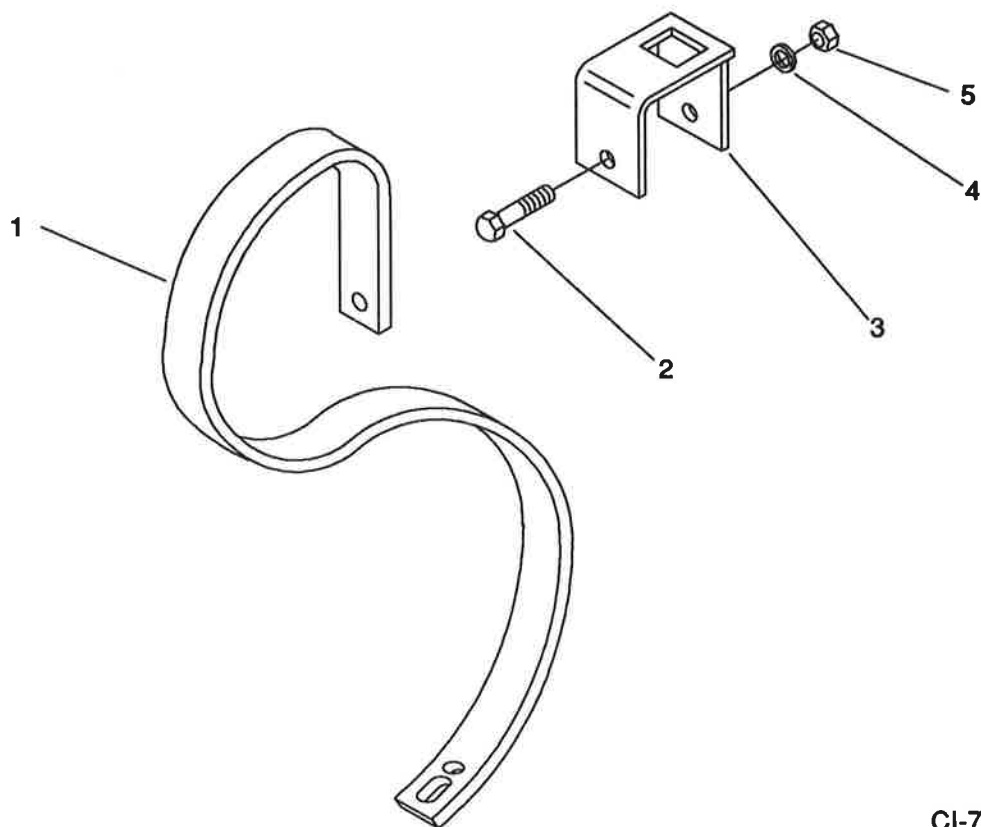
CI-77912

ITEM	PART NO.	DESCRIPTION
	22053	Twin Spring Shank Assembly (Includes Items 1,3-6&9-15)
	11540	Spring Plug Assembly (Includes Items 9-10 & 13)
1	22047	Twin Spring Bracket
2	88501	5/8NC x 4 x 4-1/4 U-Bolt
3	47926	3/4NC Lock Nut
4	21535	Heavy Duty Shank
5	22051	Shank Holder
6	88363	1/2NC Lock Nut

ITEM	PART NO.	DESCRIPTION
7	88129	5/8 Lock Washer
8	88126	5/8NC Nut
9	11397	Spring Handle
10	11510	Spring
11	88574	1/2NC x 5-1/2 Bolt GR5
12	88294	5/8NC x 2 GR5 Bolt
13	11398	Spring Plug
14	21966	1/2NC x 2-1/2 Bolt GR2
15	22933	3/4NF x 4-1/2 Bolt GR5

23153

S-SHANK ASSEMBLY

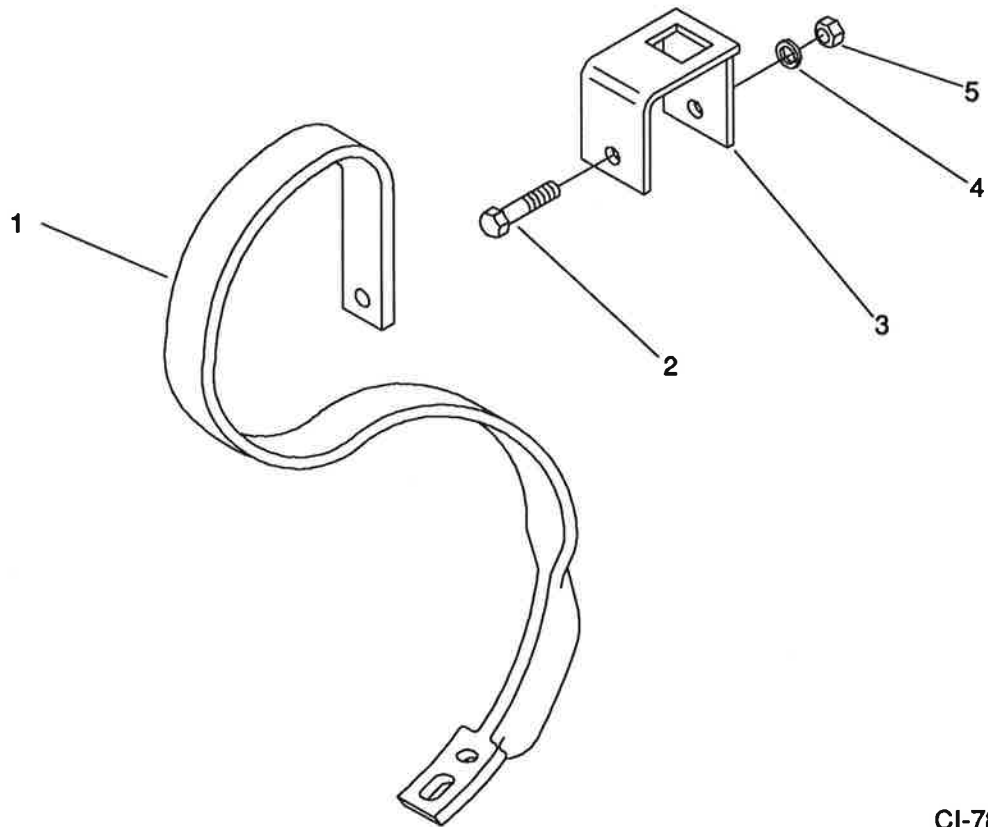


CI-77911

ITEM	PART NO.	DESCRIPTION
1	41412	Spring Tine Shank (1-3/4 x 9/16)
2	88633	5/8NC x 5-1/2 GR5 Bolt
3	49620	3 x 4 Narrow S-Shank Clamp
	49621	3-1/2 x 4 S-Shank Clamp
	41150	3 x 4 Spring Tine Clamp

ITEM	PART NO.	DESCRIPTION
4	88129	5/8 Lock Washer
5	88126	5/8NC Nut

EDGE FORMED S-SHANK ASSEMBLY

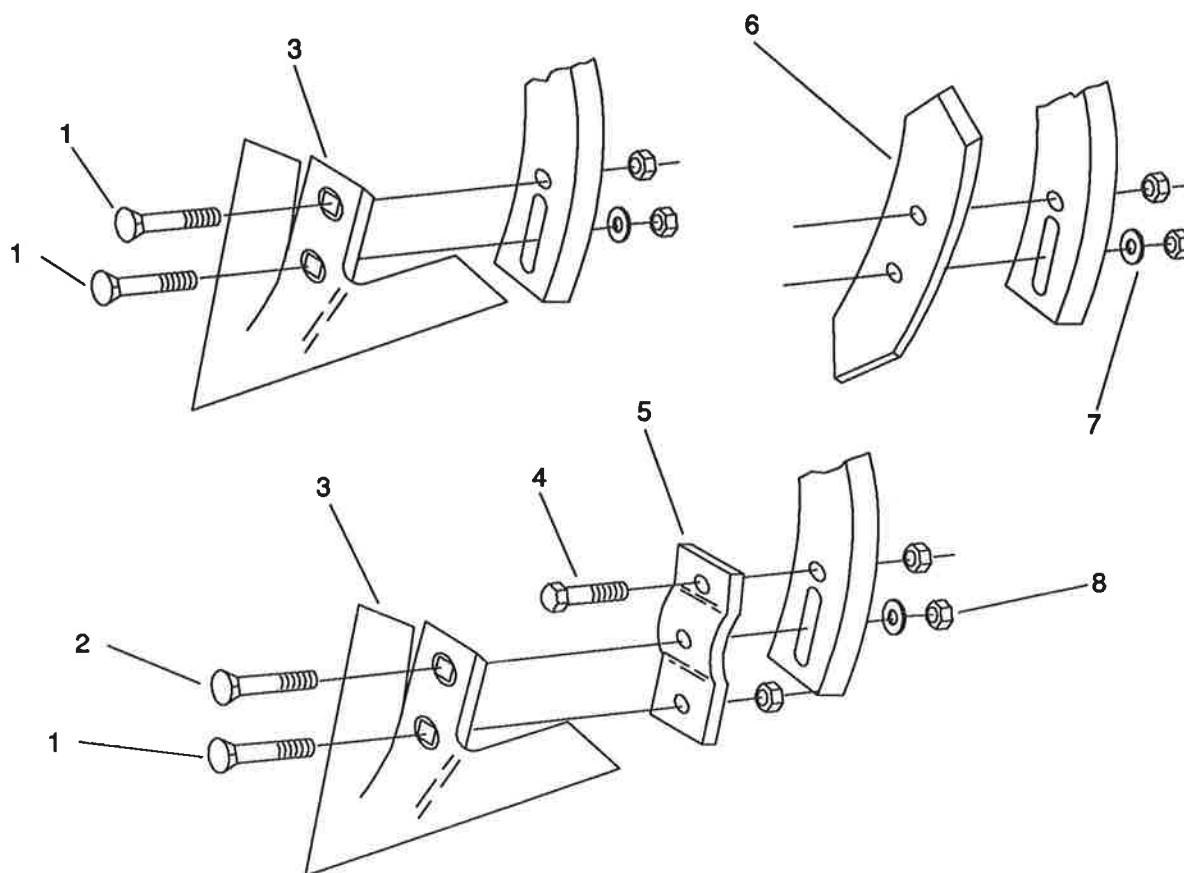


CI-78232

ITEM	PART NO.	DESCRIPTION
1	53409	Edge Formed S-Shank
2	88633	5/8NC x 5-1/2 GR5 Bolt
3	49620	3 x 4 Narrow S-Shank Clamp
	49621	3-1/2 x 4 S-Shank Clamp
	41150	3 x 4 Spring Tine Clamp

ITEM	PART NO.	DESCRIPTION
4	88129	5/8 Lock Washer
5	88126	5/8NC Nut

SHOVELS & SPIKES

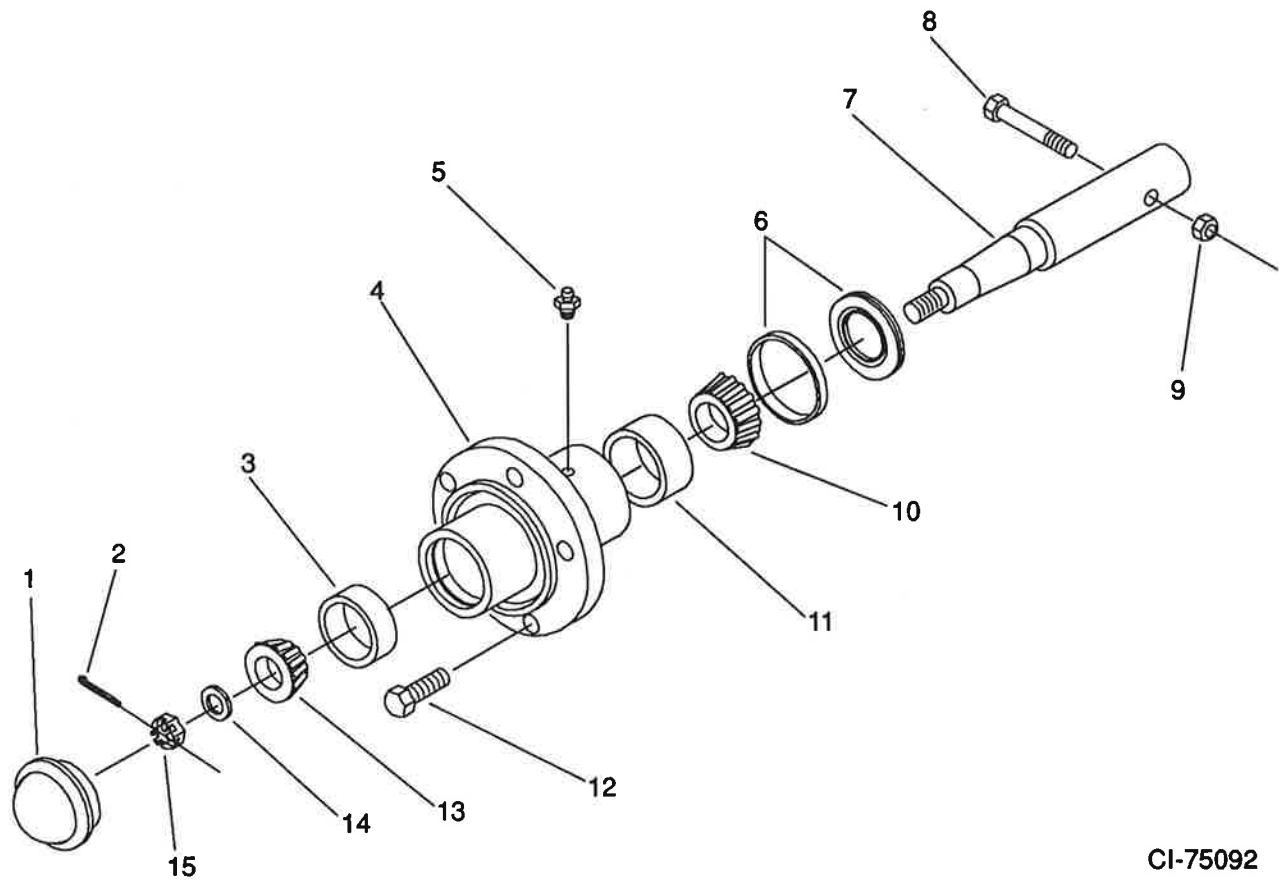


CI-77905

ITEM	PART NO.	DESCRIPTION
	14685	HK 7/16x1-1/2 FC Shovel Kit (25) (Ref. Items 1,7-8 Contains Hardware for 25 Shovels)
	16339	FC Shovel Extension Kit (Ref Items 1-2,4-5&7-8 Kit contains Hdwe for 4 shovels)
1	88599	Plow Bolt 7/16NC x 1-1/2 GR5
	88632	Plow Bolt 7/16NC x 1-3/4 GR5 (Repair Head)
2	88464	Plow Bolt 7/16NC x 2-1/4 GR5

ITEM	PART NO.	DESCRIPTION
3	19802	7" High Crown Shovel
	19803	9" High Crown Shovel
	15221	9" Dura-Crown Shovel (924)
	21488	7" Low Crown Shovel (924)
	21489	9" Low Crown Shovel (924)
	21490	10" Low Crown Shovel (924)
	21491	12" Low Crown Shovel (924)
	21492	10" High Crown FC Shovel
	21493	12" High Crown FC Shovel
	41638	4" Sweep (41°)
	41639	7" Sweep (41°)
	41640	9" Sweep (41°)
4	88392	7/16NC x 1-1/2 Bolt
5	41575	FC Shovel Extension
6	11952	2" Spike
7	88152	7/16 Flat Washer
8	88344	7/16NC Nut

1-3/4" HUB & SPINDLE

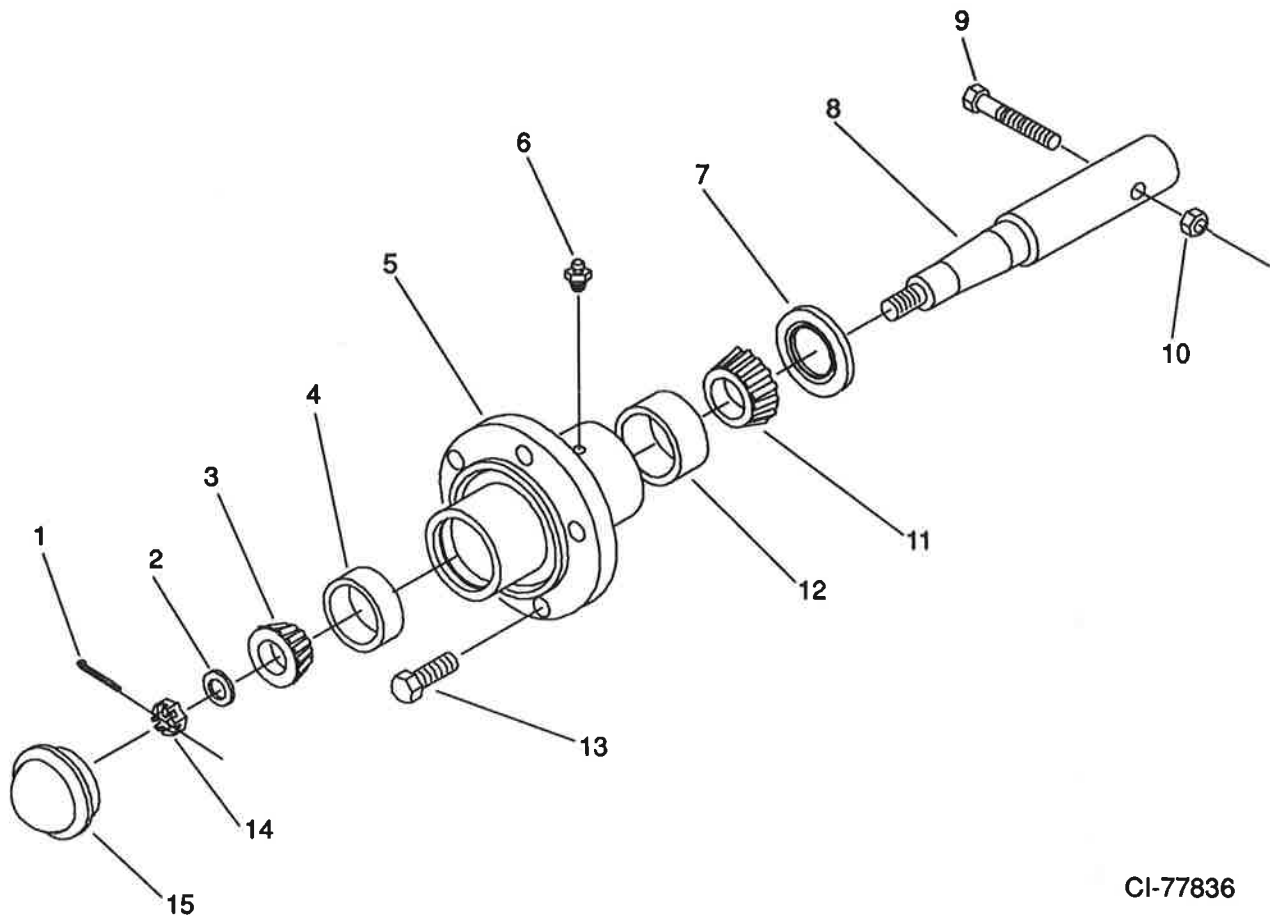


CI-75092

ITEM	PART NO.	DESCRIPTION
	41233	Hub & Spindle Assembly (Includes Items 1-7&10-15)
1	11381	Dust Cap
2	88301	3/16 x 1-1/2 Cotter Pin
3	10344	Outer Bearing Cup
4	30405	6Bolt Hub w/Cups (Includes Items 3, 5 & 11)
5	88263	1/8NPT Grease Fitting
6	26121	Wear SLeeve & Seal Kit
	25585	Triple Lip Seal (1.62ID)
	25586	Wear Sleeve
	76333	Assembly Instructions

ITEM	PART NO.	DESCRIPTION
7	41232	1-3/4 Spindle
8	88313	1/2NF x 3 GR5 Bolt
9	88304	1/2NF Lock Nut
10	11378	Inner Bearing Cone
11	11379	Inner Bearing Cup
12	88142	1/2NF x 1 Wheel Bolt
13	10345	Outer Bearing Cone
14	16094	7/8 Spindle Washer
15	88340	7/8NF Slotted Nut

2" HUB & SPINDLE



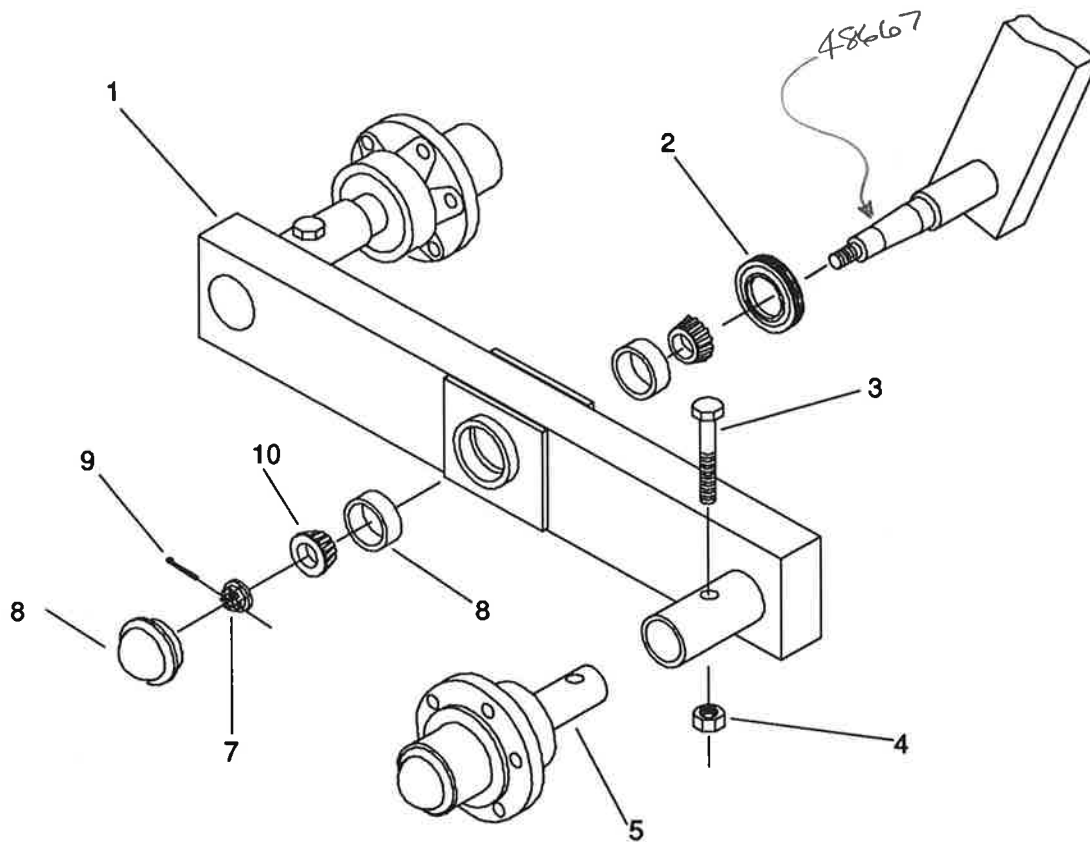
CI-77836

ITEM	PART NO.	DESCRIPTION
	14131	2" Hub & Spindle Assembly (Includes Items 1-8&11-15)
1	88301	3/16 x 1-1/2 Cotter Pin
2	16094	7/8 Spindle Washer
3	10345	Outer Bearing Cone
4	10344	Outer Bearing Cup
5	24097	2IN Pressed Hub (Includes Items 4,6&12)
6	88263	1/8NPT Grease Fitting

ITEM	PART NO.	DESCRIPTION
7	14247	Grease Seal
8	14251	2IN Axle Spindle
9	88429	1/2NF x 3-1/4 GR5 Bolt
10	88304	1/2NF Lock Nut
11	14248	Inner Bearing Cone
12	14249	Inner Bearing Cup
13	88142	1/2NF x 1 Bolt
14	88340	7/8NF Slotted Nut
15	11381	Dust Cap

1-3/4 WALKING TANDEM

WING AXLES



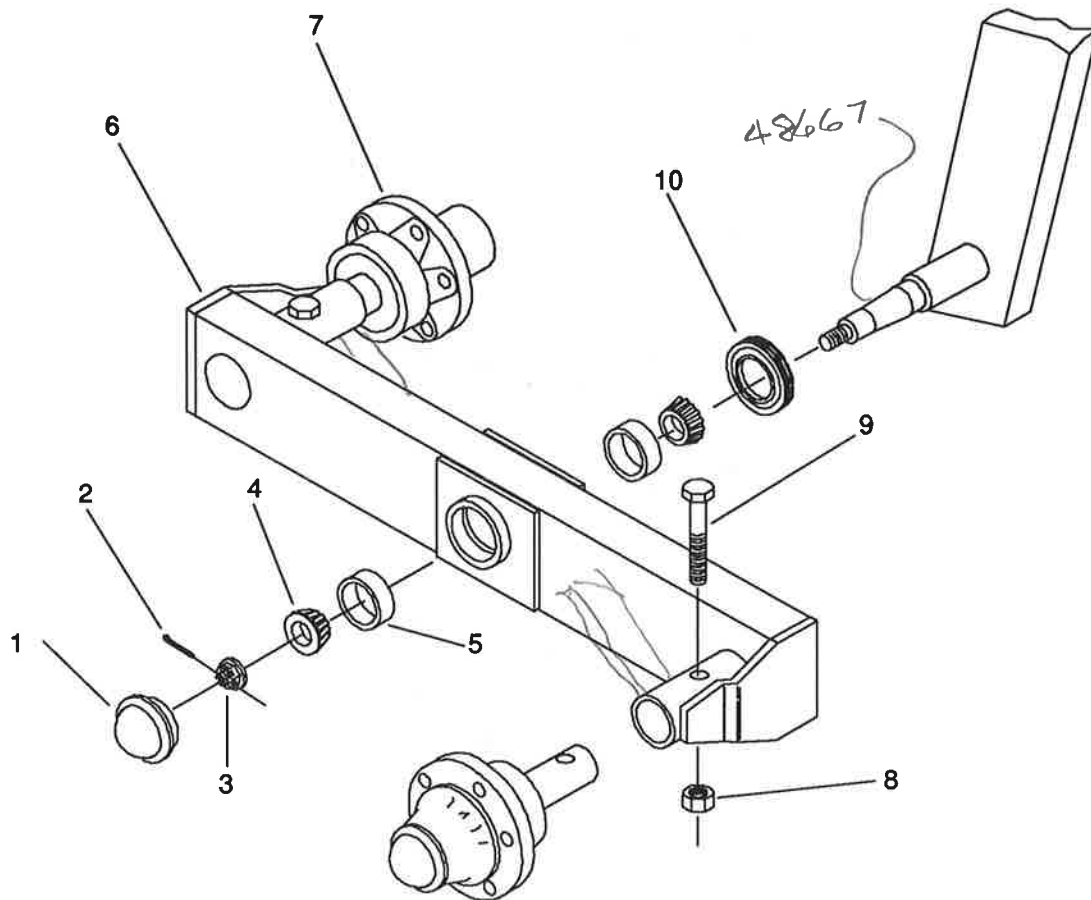
CI-77904

ITEM	PART NO.	DESCRIPTION
1	48705	1-3/4 x 26 Walking Tandem Axle Assy (Includes Item 8)
2	23733	2-1/4ID Seal Kit
	26120	Seal
	76235	Triple Lip Seal Assembly Instruction
3	88313	1/2NF x 3 GR5 Bolt

ITEM	PART NO.	DESCRIPTION
4	88304	1/2NF Lock Nut
5	41233	1-3/4 Hub&Spindle Assembly
6	12206	Dust Cap
7	12712	Walking Tandem Nut Assembly
8	12104	Bearing Cup
9	88133	3/16 x 2 Cotter pin
10	12103	Bearing Cone

2IN WALKING TANDEM

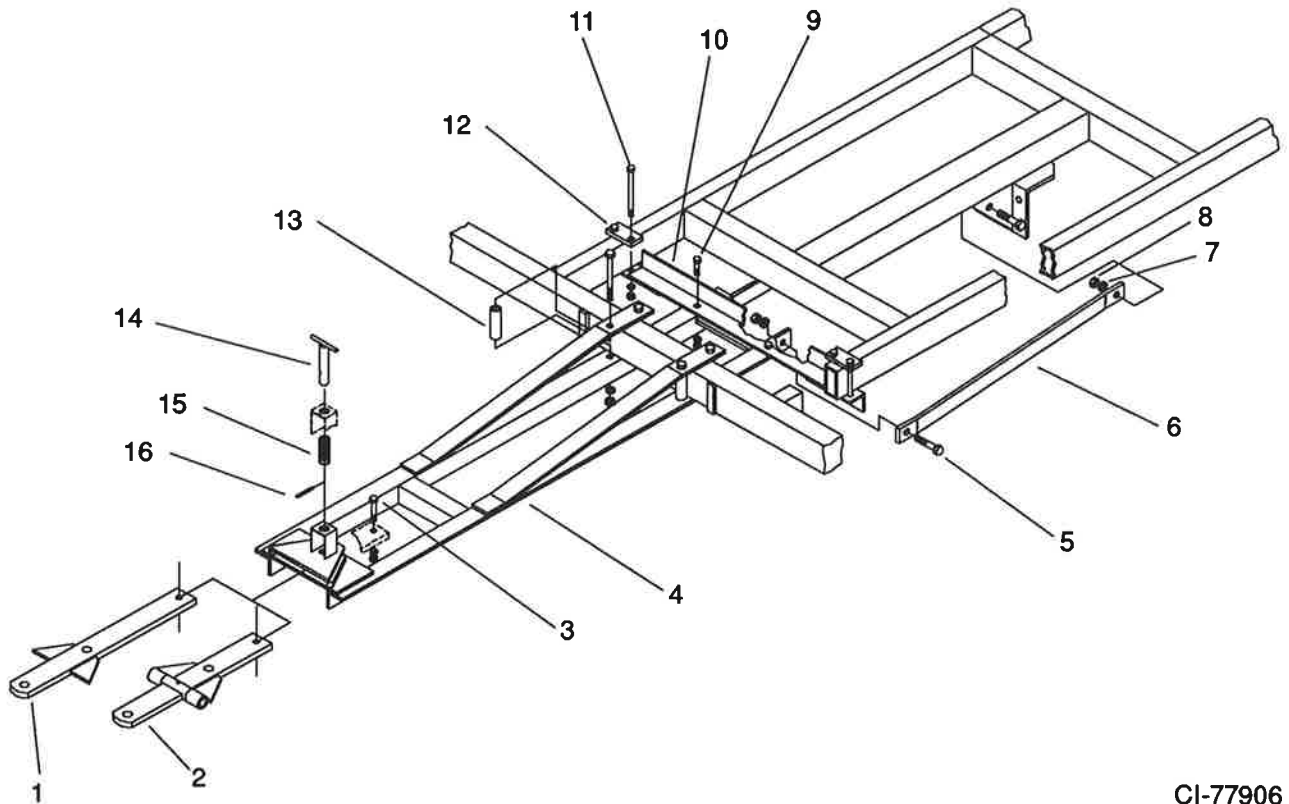
MAIN AXLE



CI-75067

ITEM	PART NO.	DESCRIPTION
1	12206	Dust Cap
2	88133	3/16 x 2 Cotter Pin
3	12712	Walking Tandem Nut Assy
4	12103	Bearing Cone
5	12104	Bearing Cup
6	48703	Walking Tandem Axle Assy 2 x 25.75 LH
6	69019	Walking Tandem Axle RH
7	14131	2IN Hub & Spindle
8	88304	1/2NF Lock Nut
9	88429	1/2NF x 3-1/4 GR5 Bolt
10	23733	2-1/4ID Seal Kit
	26120	Seal
	76235	Triple Lip Seal Assembly Instruction

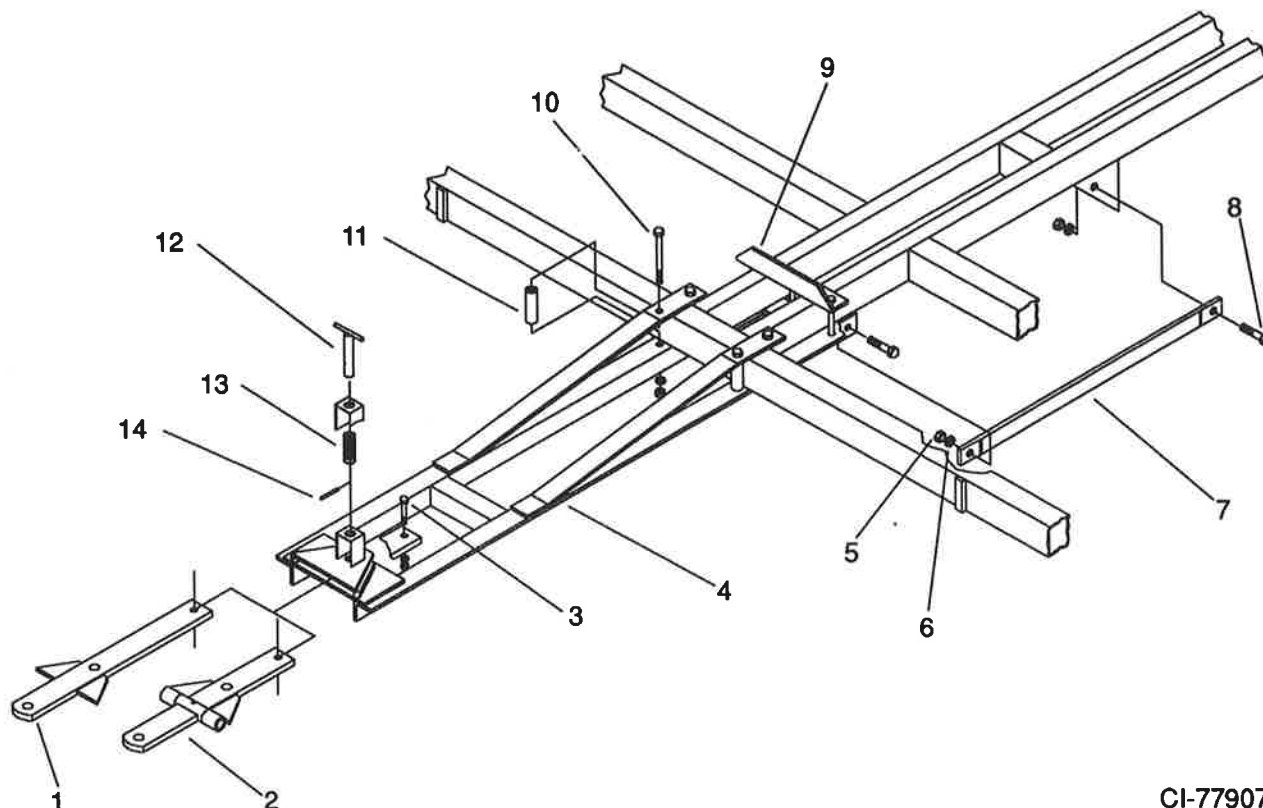
3411 AUXILIARY HITCH



CI-77906

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	48950	3411 Auxiliary Hitch (Solid Tongue)	7	88130	3/4 Lock Washer
	48951	3411 Auxiliary Hitch (Hinged Tongue)	8	88110	3/4NC Nut
1	15918	Straight Tongue Assembly	9	88577	5/8NC x 1-1/2 GR5 Bolt
2	18443	Hinged Tongue Assembly	10	48948	Auxiliary Hitch Strap
3	88294	5/8NC x 2 GR5 Bolt	11	88295	5/8NC x 6 GR5 Bolt
4	48943	Auxiliary Hitch Frame Assy	12	19534	Backing Plate
5	88290	3/4NC x 2 GR8 Bolt	13	21497	Spacer Tube
6	48949	Pole Strap	14	15922	Pin Assembly
			15	15940	Spring
			16	88101	1/4 x 2-1/2 Cotter Pin

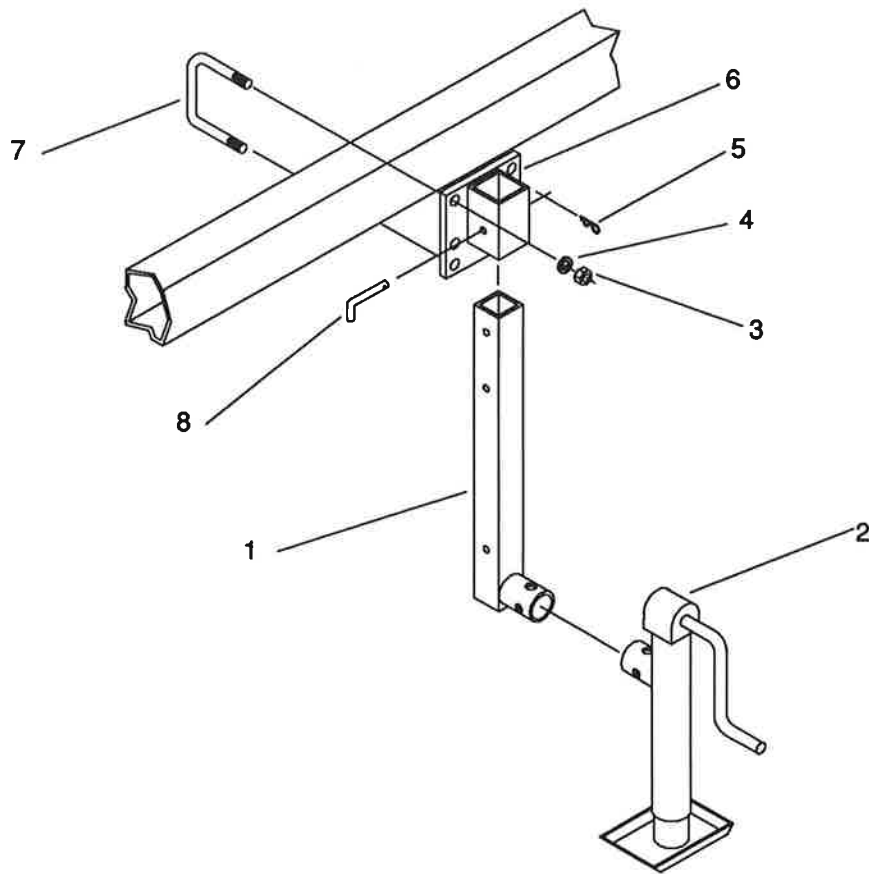
3420 & 3450 AUXILIARY HITCH



CI-77907

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	48952	3420 & 3450 Auxiliary Hitch (Solid Tongue)	7	48945	Pole Strap
	48953	3420 & 3450 Auxiliary Hitch (Hinged Tongue)	8	88290	3/4NC x 2 GR8 Bolt
1	15918	Straight Tongue Assembly	9	18436	Angle Clamp
2	18443	Hinged Tongue Assembly	10	88295	5/8NC x 6 GR5 Bolt
3	88294	5/8NC x 2 GR5 Bolt	11	21497	Spacer Tube
4	48943	Auxiliary Hitch Frame Assembly	12	15922	Pin Assembly
5	88110	3/4NC Nut	13	15940	Spring
6	88130	3/4 Lock Washer	14	88101	1/4 x 2-1/2 Cotter Pin

REAR JACK STAND

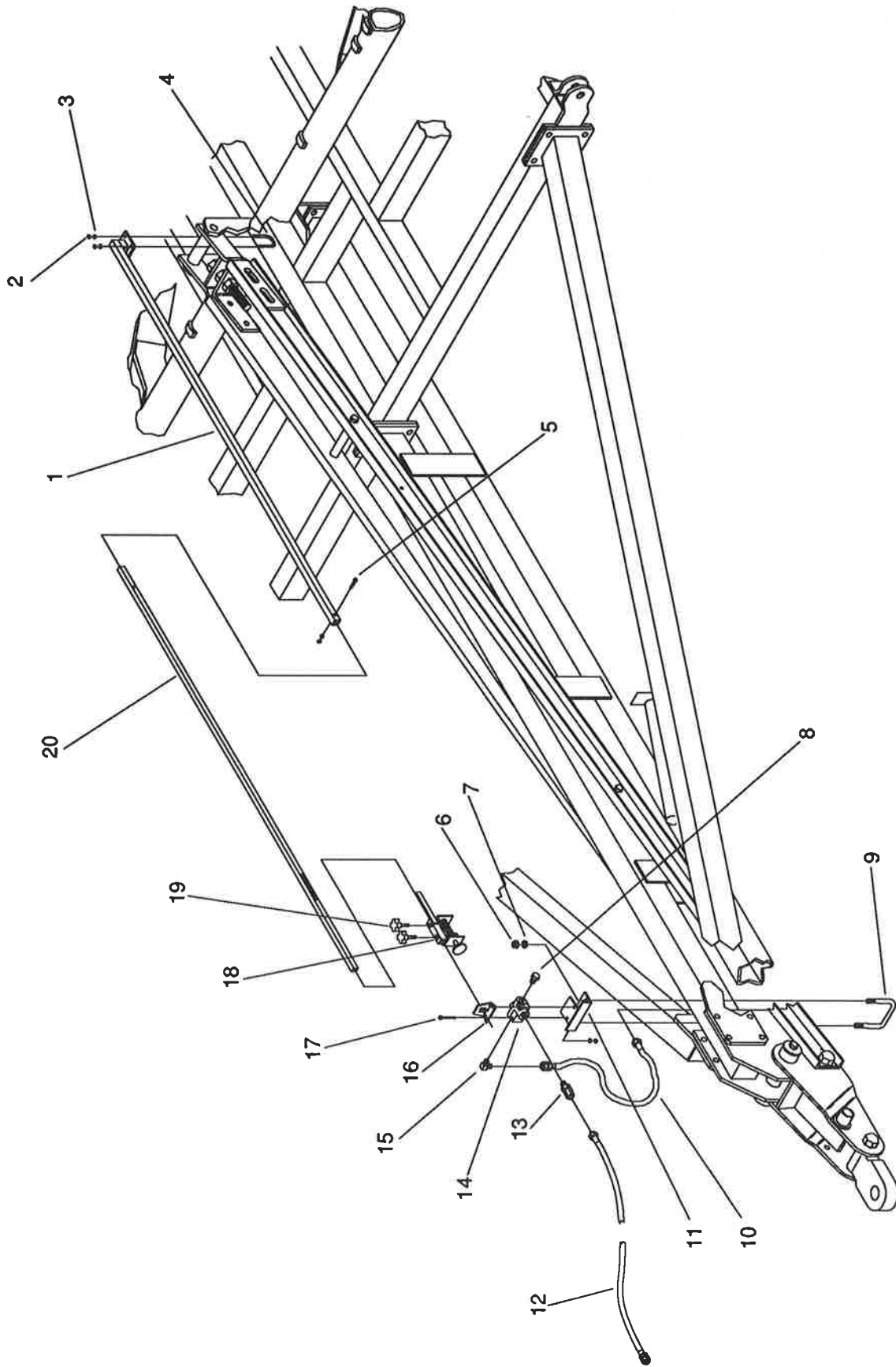


CI-77854

ITEM	PART NO.	DESCRIPTION
	22726	Jack Stand Assembly (Includes Items 1 & 3-8)
1	40596	Jack Leg
2	12796	Pole Jack (Order Separately)
3	88126	5/8NC Nut

ITEM	PART NO.	DESCRIPTION
4	88129	5/8 Lock Washer
5	23039	Hair Pin Cotter 2.69"
6	22724	Jack Stand Bracket
7	88501	5/8NC x 4 x 4-1/4 U-Bolt
8	16306	Pin

SINGLE POINT DEPTH CONTROL



CI-78131

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	51946	Anchor Tube	11	51940	Bracket
2	88127	5/16NC Nut	12	13269	3/8 x 84 Hose (MF)
3	88358	5/16 Lock Washer	13	51981	Adapater (1/2NPTx3/4JIC)
4	88498	5/16NC x 2 x 2-3/4 U-Bolt	14	51975	DCV Assembly
5	88479	5/16NC x 1-1/2 bolt	15	13236	Elbow
6	88103	3/8NC Nut	16	51941	Guide
7	88362	3/8 Lock Washer	17	89004	5/16NC x 2-1/2 Bolt
8	88296	1/2NPT Plug	18	54455	Bracket 62429
9	88385	3/8NC x 4 x 4-3/4 U-Bolt	19	51976	Adjustment Knob
10	13260	3/8 x 24 Hose (MF)	20	51977	Depth Setting Tube

DECALS

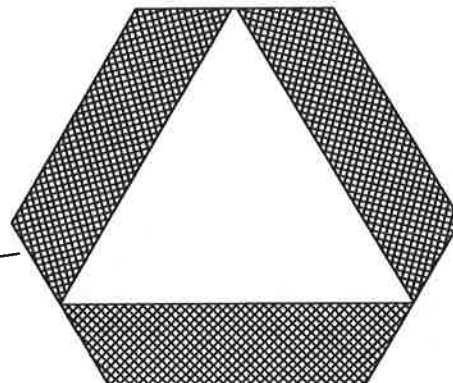
WIL-RICH® 1

3400 5



2 HAVE

6



3 HAVE

BY-PASS THIS END ↑

7



4

ADJUST SCREW STOPS EVENLY

8

WIL-RICH 3400 9

CI-77915

ITEM	PART NO.	DESCRIPTION
1		Wil-Rich Decals
	18298	3/4 x 9
	18299	1-1/8 x 13
	18300	1-3/4 x 30
2	49163	Danger Decal
3	49165	Caution Decal

ITEM	PART NO.	DESCRIPTION
4	20121	Integral Restrictor Decal
5	42697	3400 Die Cut Decal
6	41345	SMV Kit
7	20339	By-Pass Decal
8	20119	Screw Stop Adjust Decal
9	54421	3400 Decal Kit

WARRANTY

The only warranty Hutchinson Wil-Rich Manufacturing Company gives and the only warranty the dealer is authorized to give is as follows:

We warrant products sold by us to be in accordance with our published specifications or those specifications agreed to by us in writing at time of sale. Our obligation and liability under this warranty is expressly limited to repairing, or replacing, at our option, within 12 months after date of retail delivery, any product not meeting the specifications. WE MAKE NO OTHER WARRANTY, EXPRESS OR IMPLIED AND MAKE NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE. Our obligation under this warranty shall not include any transportation charges or costs or installation or any liability for direct, indirect or consequential damage or delay. If requested by us, products or parts for which a warranty claim is made are to be returned transportation prepaid to our factory. Any improper use, operation beyond rated capacity, substitution of parts not approved by us, or any alteration or repair by others in such manner as in our judgement affects the product materially and adversely shall void this warranty. NO EMPLOYEE OR REPRESENTATIVE IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY.

Hutchinson Wil-Rich Manufacturing Company reserves the right to make improvement changes on any of our products without notice.

WHEN WARRANTY LIMITED OR NOT APPLICABLE: Warranty on hoses, cylinders, hubs, spindles, engines, valves, pumps, or other trade accessories are limited to the warranties made by the respective manufacturers of these components. Rubber tires and tubes are warranted directly by the respective tire manufacturer only, and not by Hutchinson Wil-Rich Manufacturing Company.

Warranty does not apply to any machine or part which has been repaired or altered in any way so as in our judgement to affect its reliability, or which has been subject to misuse, negligence or accident.

A DELIVERY REPORT FORM MUST BE FILLED OUT AND RECEIVED BY HUTCHINSON WIL-RICH MANUFACTURING COMPANY TO INITIATE THE WARRANTY COVERAGE.

WARRANTY CLAIMS PROCEDURE

1. The warranty form must be returned to Hutchinson Wil-Rich Manufacturing Company within fifteen (15) working days from the repair date.
2. Parts returned to Hutchinson Wil-Rich Manufacturing Company without authorization will be refused. The parts must be retained at the dealership for ninety (90) days after the claim has been filed. If the Service Department would like to inspect the parts, a packing slip will be mailed to the dealer. The packing slip must be returned with the parts. The parts must be returned prepaid within thirty (30) days of receiving authorization. After the parts are inspected and warranty is verified, credit for the return freight will be issued to the dealer.
3. Parts that will be scrapped at the dealership will be inspected by Hutchinson Wil-Rich Manufacturing Company Sales Representatives, District Sales Managers or Service Representatives within the ninety (90) day retaining period.

