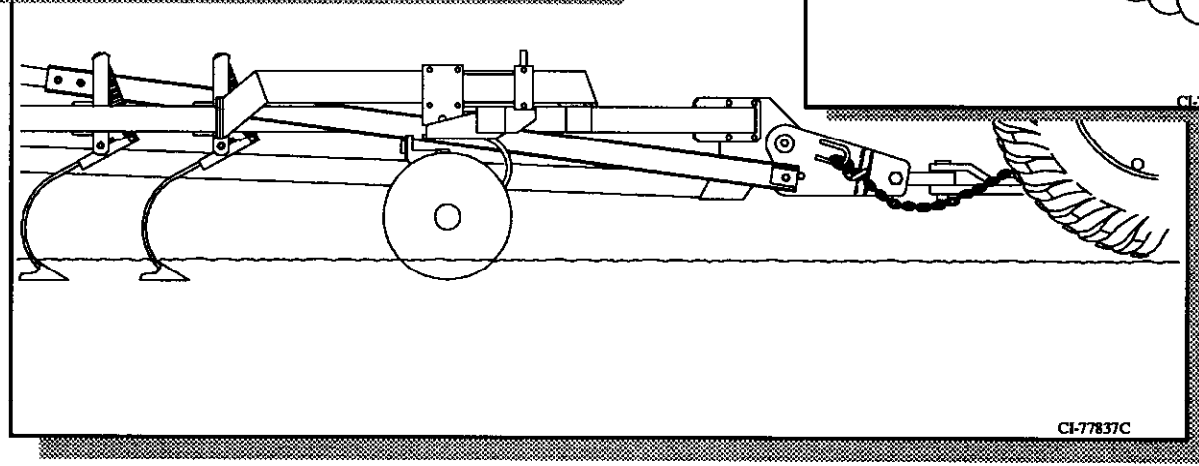
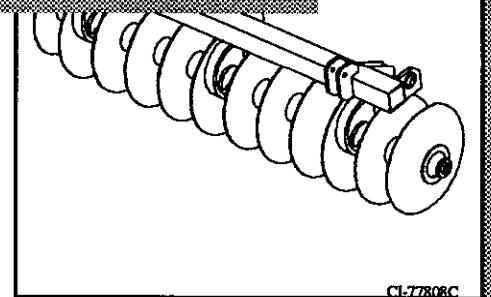
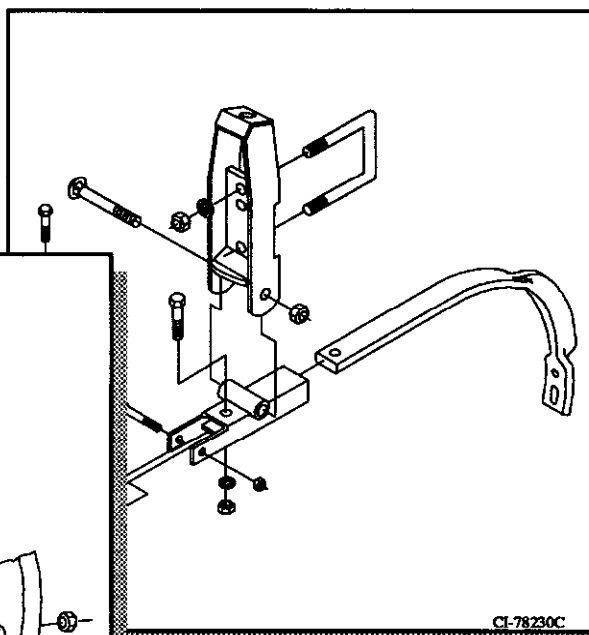
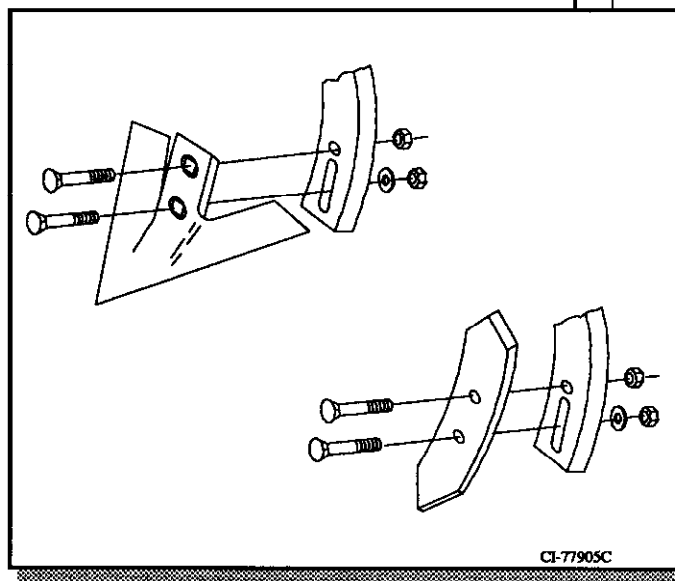


WIL-RICH®

3411, 3420 & 3450 DISK CULTIVATOR

PARTS



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

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.

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
FC	.....	Field Cultivator
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 Bypass

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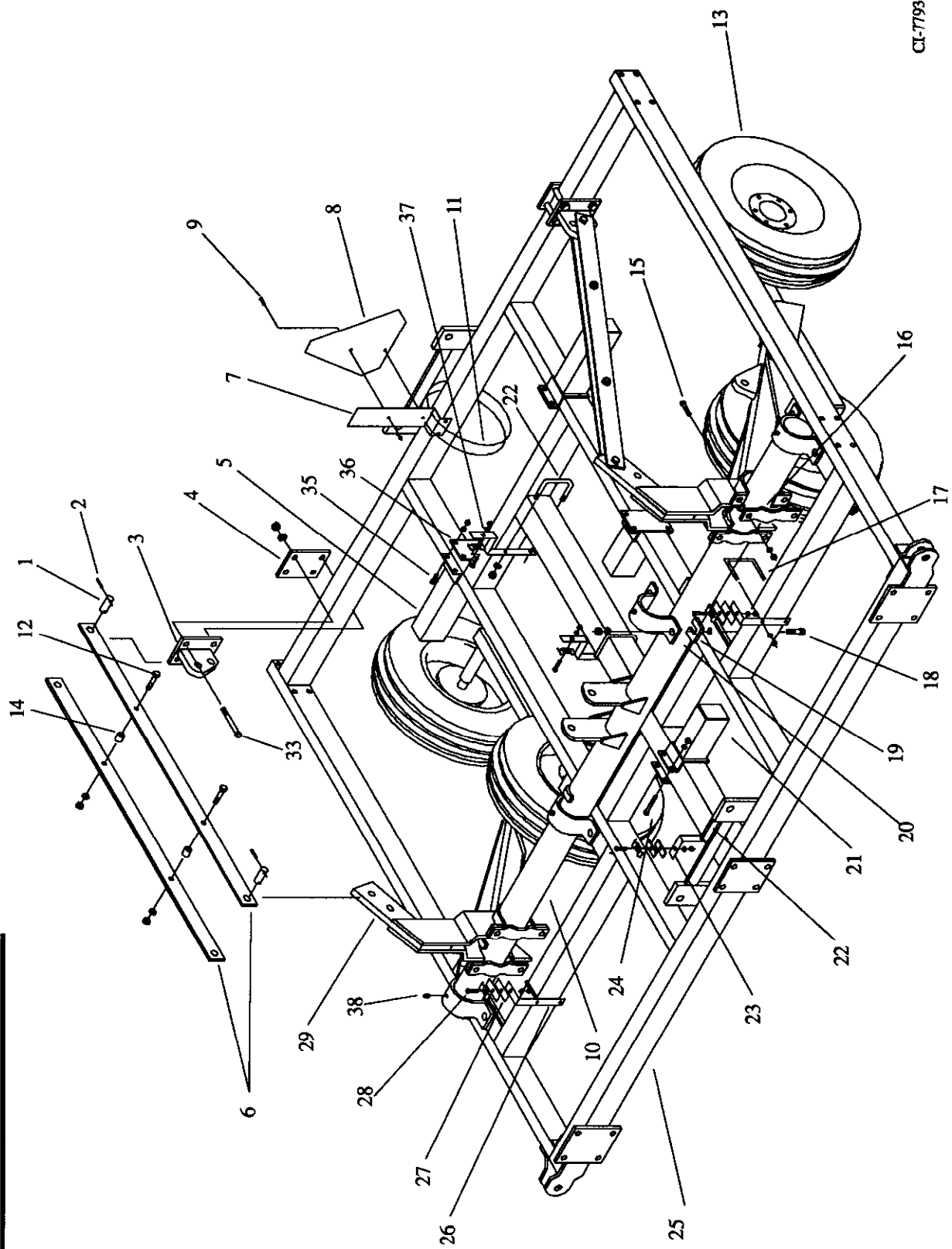
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3411 MAIN FRAME



CL-77931

ITEM PART NO. DESCRIPTION

1	49874	Pin
2	42484	Cylinder Lock Pin
3	54438	Mast Anchor
4	48966	Back-Up Plate
5	48536	20" Wheel Well Stub
6	53487	Mast Strap
7	41359	SMV Bracket
8	30651	SMV Emblem
9	88351	1/4NC x 3/4 Bolt
10	48917	3411 Main Axle Assy w/Walkers
	48505	3411 Main Axle Assy w/o Walkers (See page 48 for walker.)
11	14131	2" Hub & Spindle (See page 46)
	33096	Tie Wrap
12	88409	5/8NC x 2-1/2 GR5 Bolt
13	16290	95L x 15 Wheel Assembly
	10498	Wheel Rim 15 x 8 6Bolt
	16287	95L x 15 Tubeless Tire 8Ply
	30784	Valve Stem Assembly
14	48672	Bushing (.656IDx1"ODx1.06 Long)
15	88404	3/4NC x 2-1/2 GR 5 Bolt
16	21375	Axle Saddle Assembly
17	88514	3/8NC x 4 x 3-3/4 U-Bolt
18	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.

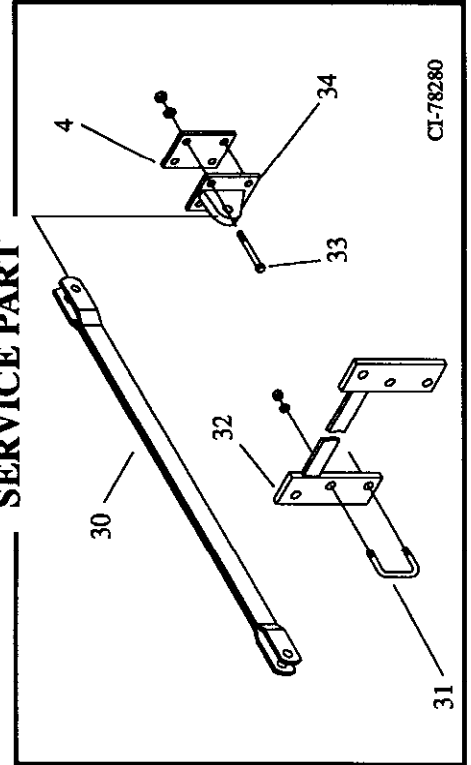
STANDARD NUTS AND LOCK WASHERS

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

ITEM PART NO. DESCRIPTION

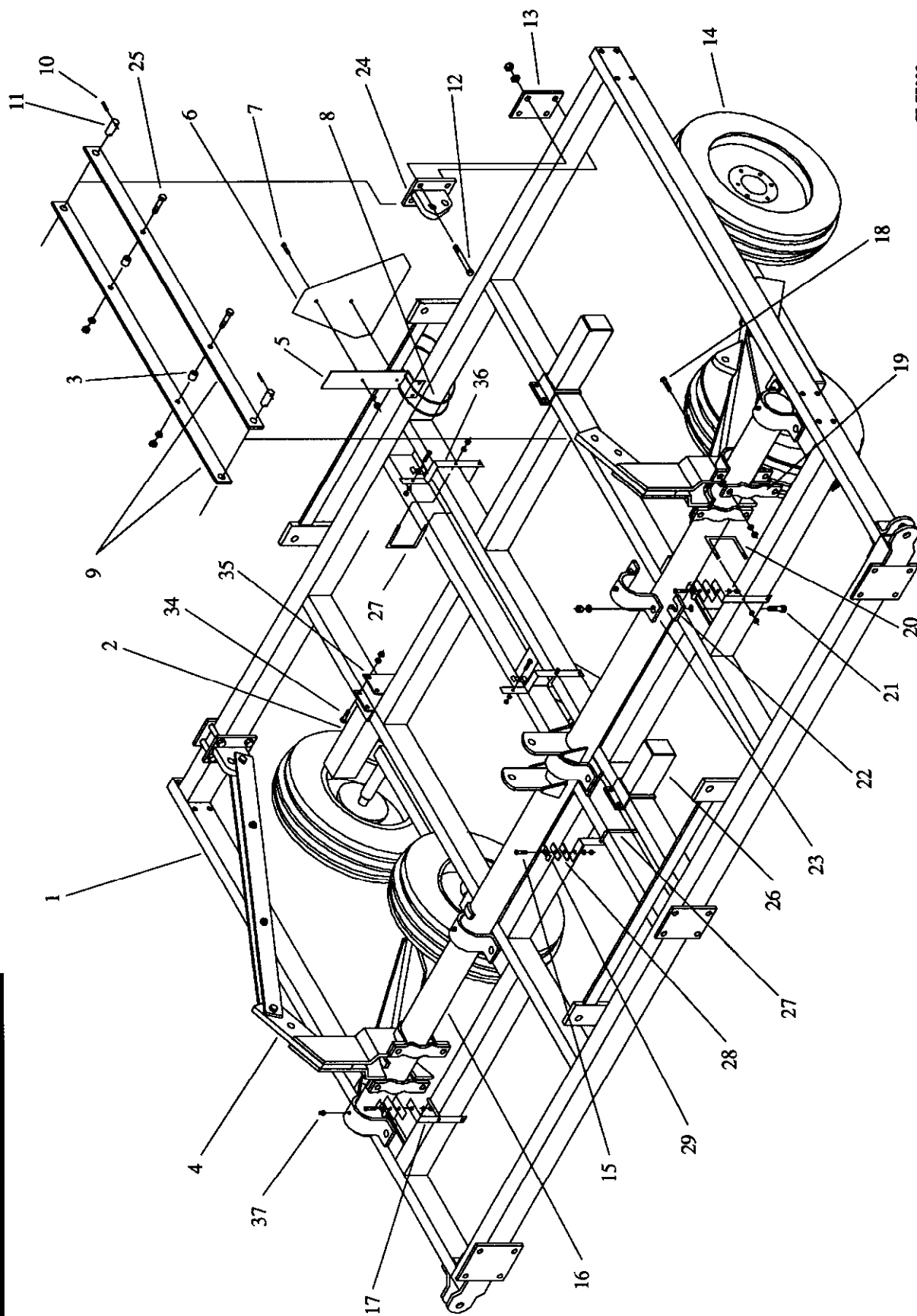
19	10176	Spacer
20	10399	Axle Cap
21	26815	8" Saddle Stub
22	88385	3/8NC x 4 x 4-3/4 U-Bolt
23	15543	Base Plate
24	88507	1/2NC x 3-1/2 GR5 Bolt
25	48497	3411 Main Frame
26	13270	Pole Tube Bracket
27	13215	Tube Clamp
28	88553	3/8NC x 1-1/2 GR 5 Bolt
29	48506	Main Axle Mast
30	48509	Main Mast Rod (Before Serial #439550)
31	88453	5/8NC x 4 x 4-1/2 U-Bolt
32	48500	3411 Wing Anchor (Before Serial #438000)
33	88305	3/4NC x 5 GR5 Bolt
34	48508	Mast Anchor (Before Serial #439844)
35	88475	1/2NC x 1-1/2 GR5 Bolt
36	26817	Backing Plate
37	13277	Tube Bracket
38	88263	1/8NPT Grease Fitting

SERVICE PART



CI-78280

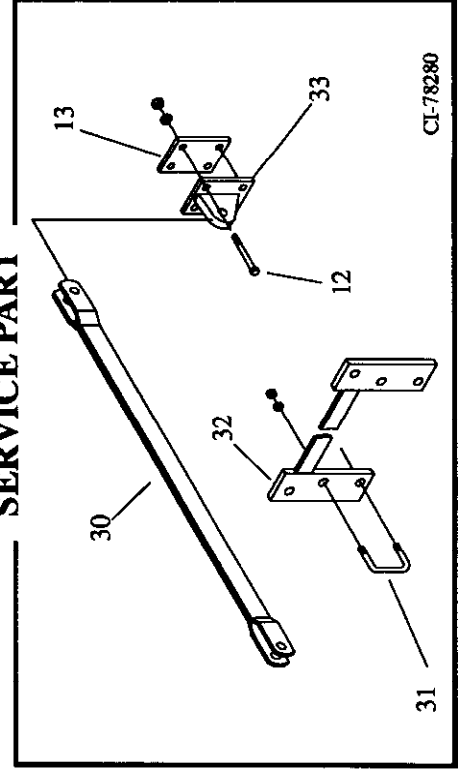
3420 MAIN FRAME



CI-77932

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48498	3420 Main Frame	17	13270	Pole Tube Bracket
2	48536	20" Wheel Well Stub	18	88404	3/4NC x 2-1/2 GR 5 Bolt
3	48672	Bushing (.656ID x 1"OD x 1.06 Long)	19	21375	Axle Saddle Assembly
4	48506	9.3 Main Axle Mast	20	88514	3/8NC x 4 x 3-3/4 U-Bolt
5	41359	SMV Bracket	21	88495	7/8NC x 2-1/2 GR5 Bolt
6	30651	SMV Emblem	22	10176	Shim
7	88351	1/4NC x 3/4 Bolt	23	10399	Axle Cap
8	33096	Tie Wrap	24	54438	Mast Anchor
9	53487	Mast Strap	25	88409	5/8NC x 2-1/2 GR 5 Bolt
10	42484	Cylinder Lock Pin	26	26815	8" Saddle Stub
11	49874	Pin	27	88515	3/8NCx4x2-3/4 U-Bolt
12	88305	3/4NC x 5 GR 5 Bolt	28	15543	Base Plate
13	48966	Back-Up Plate	29	13215	Tube Clamp
14	16290	95L x 15 Wheel Assembly	30	48509	Main Mast Rod
	10498	15 x 8 Wheel Rim			(Before Serial #439550)
	16287	95L x 15 Tubeless Tire 8Ply	31	88453	5/8NC x 4 x 4-1/2 U-Bolt
	30784	Valve Stem Assy	32	48501	3420 Wing Anchor
	49398	11L x 15 Wheel Assembly			(Before Serial #438000)
	41279	11L x 15 Tire 12Ply	33	48508	Mast Anchor
15	88553	3/8NCx1-1/2 GR5 Bolt			(Before Serial #439844)
16	48918	3420 Main Axle Assy w/ Walkers	34	88475	1/2NC x 1-1/2 GR5 Bolt
	48504	3420 Main Axle Assy w/o Walkers	35	26817	Backing Plate
		(See page 48 for walker,)	36	13277	Tube Bracket
		(See page 46 for Hub & Spindle)	37	88263	1/8NPT Grease Fitting

SERVICE PART



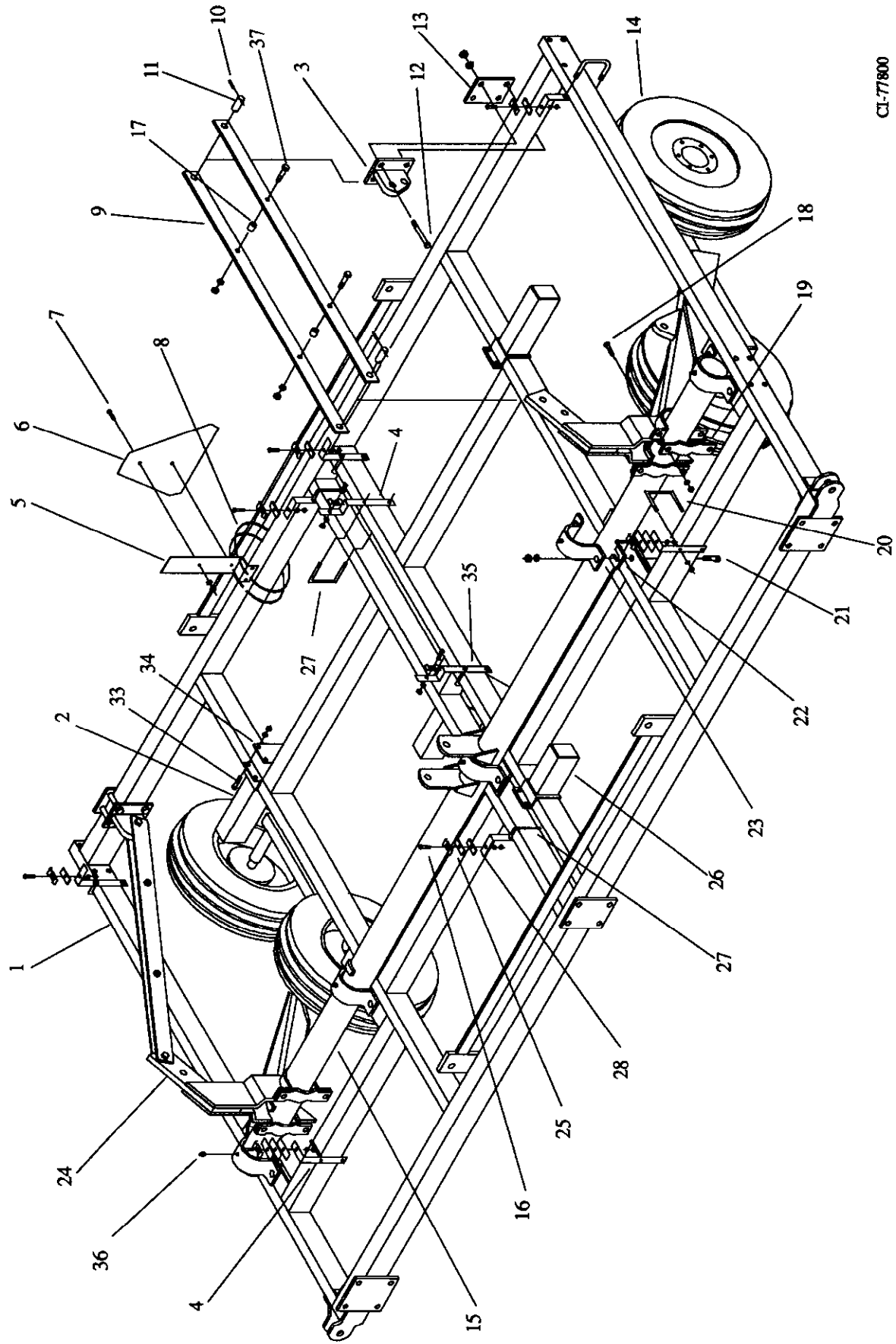
CL-78280

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

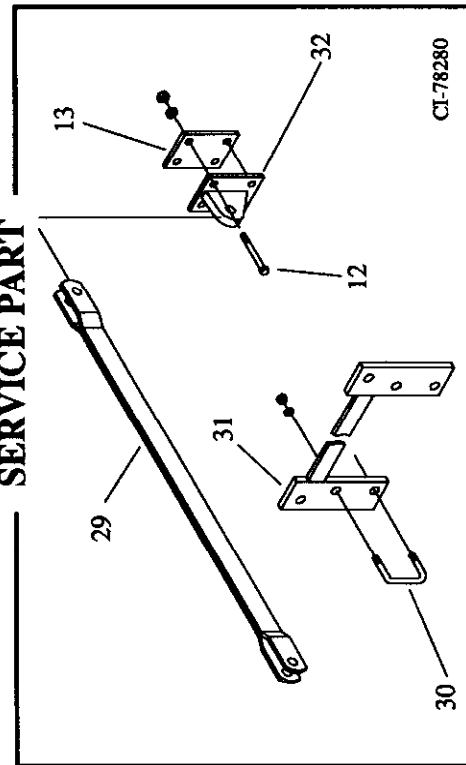
3450 MAIN FRAME



CI-77800

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48499	3450 Main Frame	17	48672	Bushing (.656IDx1"ODx1.06 Long)
2	48536	20" Wheel Well Stub	18	88404	3/4NC x 2-1/2 GR 5 Bolt
3	54438	Mast Anchor	19	21375	Axle Saddle Assembly
4	13270	Tube Bracket	20	88514	3/8NC x 4 x 3-3/4 U-Bolt
5	41359	SMV Bracket	21	88495	7/8NC x 2-1/2 GR5 Bolt
6	30651	SMV Emblem	22	10176	Shim
7	88351	1/4NC x 3/4 Bolt	23	10399	Axle Cap
8	33096	Tie Wrap	24	48506	9.3 Main Axle Mast
9	53487	Mast Strap	25	13215	Tube Clamp
10	42484	Cylinder Lock Pin	26	26815	8" Saddle Stub
11	49874	Pin	27	88515	3/8NCx4x2-3/4 U-Bolt
12	88305	3/4NC x 5 GR 5 Bolt	28	15543	Base Plate
13	48966	Back-Up Plate	29	48509	Main Mast Rod
14	16290	95L x 15 Wheel Assembly			(Before Serial #439550)
	10498	15 x 8 Wheel Rim	30	48453	5/8NC x 4 x 4-1/2 U-Bolt
	16287	95L x 15 Tubeless Tire 8Ply	31	48502	3450 Wing Anchor
	30784	Valve Stem Assy			(Before Serial #43800)
	49398	11L x 15 Wheel Assembly	32	48508	Mast Anchor
	41279	11L x 15 Tire 12Ply			(Before Serial #439844)
15	48919	3450 Main Axle Assembly w/Walker	33	88475	1/2NC x 1-1/2 GR5 Bolt
	48505	3450 Main Axle Assy w/o Walker	34	26817	Backing Plate
		(See page 48 for walker.)	35	13277	Tube Bracket
		(See page 46 for Hub & Spindle)	36	88263	1/8NPT Grease Fitting
16	88553	3/8NC x 1-1/2 GR5 Bolt	37	88409	5/8NC x 2-1/2 GR5 Bolt

SERVICE PART

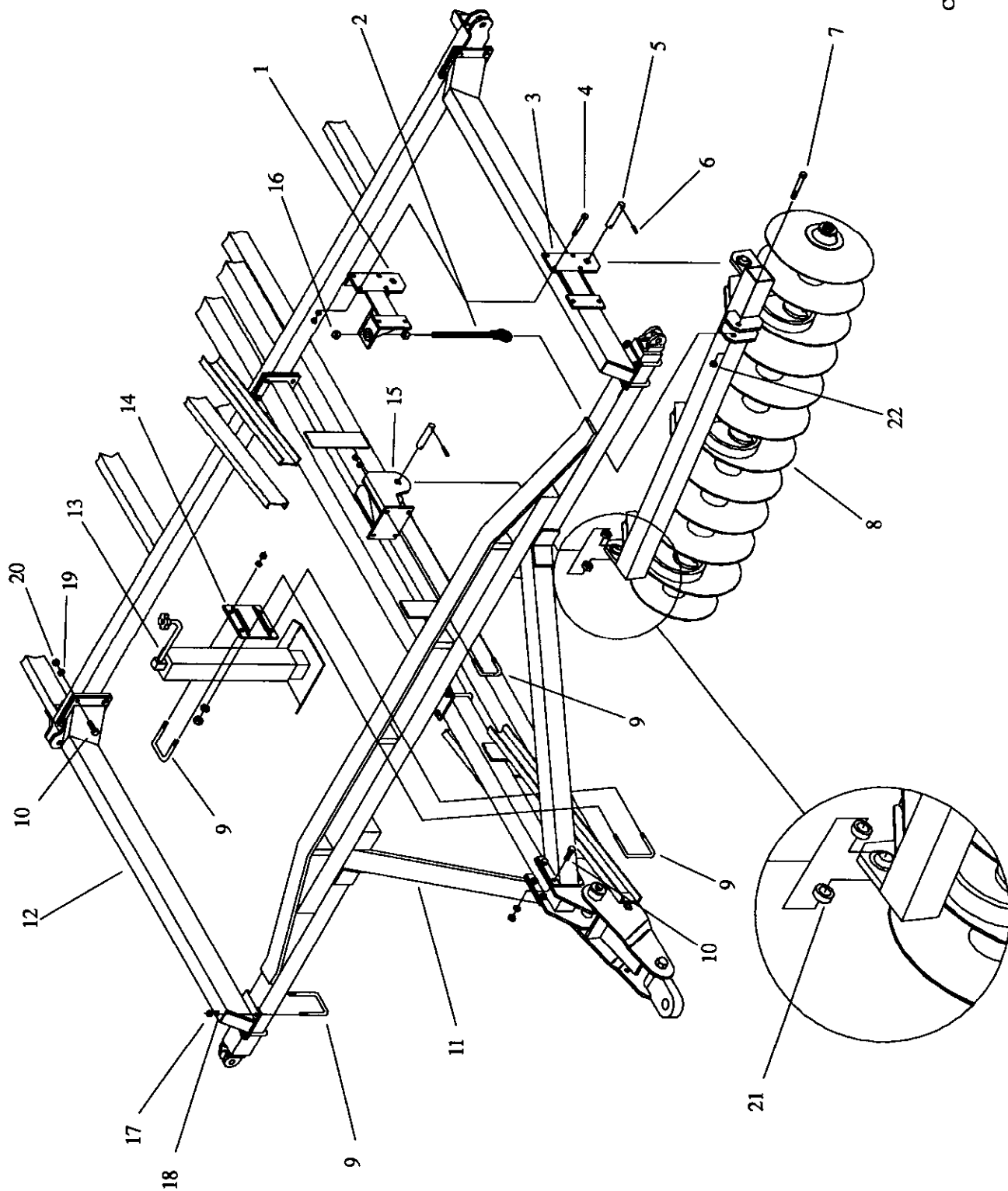


NOTE: Standard nuts and lock washers are not called out. Anything other than standard will be called out.

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

DISK GANG FRAME



CL-77808

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	49055	Left Adjusting Bracket (Shown)	11	49092	10' Main Frame Disk Mount
2	49056	Right Adjusting Bracket	49093		12' Main Frame Disk Mount
3	49300	Adjusting Bolt	49094		15' Main Frame Disk Mount (Shown)
	49057	Left Backing Plate (Shown)	49098		Main Frame Bar
4	49058	Right Backing Plate	49388		4 x 4 Pole Jack
5	88395	5/8NC x 5 GR5 Bolt	49390		4 x 4 Pole Jack Mount
6	49302	Pin	49072		Disk Hanger Bracket
7	42484	Cylinder Lock Pin	88336		1-1/8 Acme Nut
8	88272	3/4NC x 4 GR5 Bolt	88126		5/8NC Nut
	49222	LH 15' MF Gang Assy (2442)	88129		5/8 Lock Washer
9		(See pages 25-26 for gang info.)	88130		3/4 Lock Washer
10	88145	5/8NC x 4 x 5-1/4 U-Bolt	88110		3/4NC Nut
	88290	3/4NC x 2 GR8 Bolt	53174		Bushing (1-3/16IDx1-3/4ODx5/8)
			88356		3/4NC Lock Nut

This technical drawing is an exploded perspective view of a mechanical assembly, likely a vehicle's rear suspension or steering component. The assembly consists of several main structural members and numerous fasteners. Key components include:

- Structural Members:** A large upper control arm (1), a lower control arm (2), a steering knuckle (3), a rear axle housing (4), and a rear suspension arm (5).
- Fasteners and Connectors:** Numerous bolts (e.g., 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44), washers (18), and bushings (16, 17) are shown in their relative positions.
- Other Components:** A rear suspension spring (10), a rear suspension damper (11), a rear suspension shock absorber (12), a rear suspension strut (13), a rear suspension knuckle (14), a rear suspension knuckle (15), a rear suspension knuckle (16), a rear suspension knuckle (17), a rear suspension knuckle (18), a rear suspension knuckle (19), a rear suspension knuckle (20), a rear suspension knuckle (21), a rear suspension knuckle (22), a rear suspension knuckle (23), a rear suspension knuckle (24), a rear suspension knuckle (25), a rear suspension knuckle (26), a rear suspension knuckle (27), a rear suspension knuckle (28), a rear suspension knuckle (29), a rear suspension knuckle (30), a rear suspension knuckle (31), a rear suspension knuckle (32), a rear suspension knuckle (33), a rear suspension knuckle (34), a rear suspension knuckle (35), a rear suspension knuckle (36), a rear suspension knuckle (37), a rear suspension knuckle (38), a rear suspension knuckle (39), a rear suspension knuckle (40), a rear suspension knuckle (41), a rear suspension knuckle (42), a rear suspension knuckle (43), a rear suspension knuckle (44).

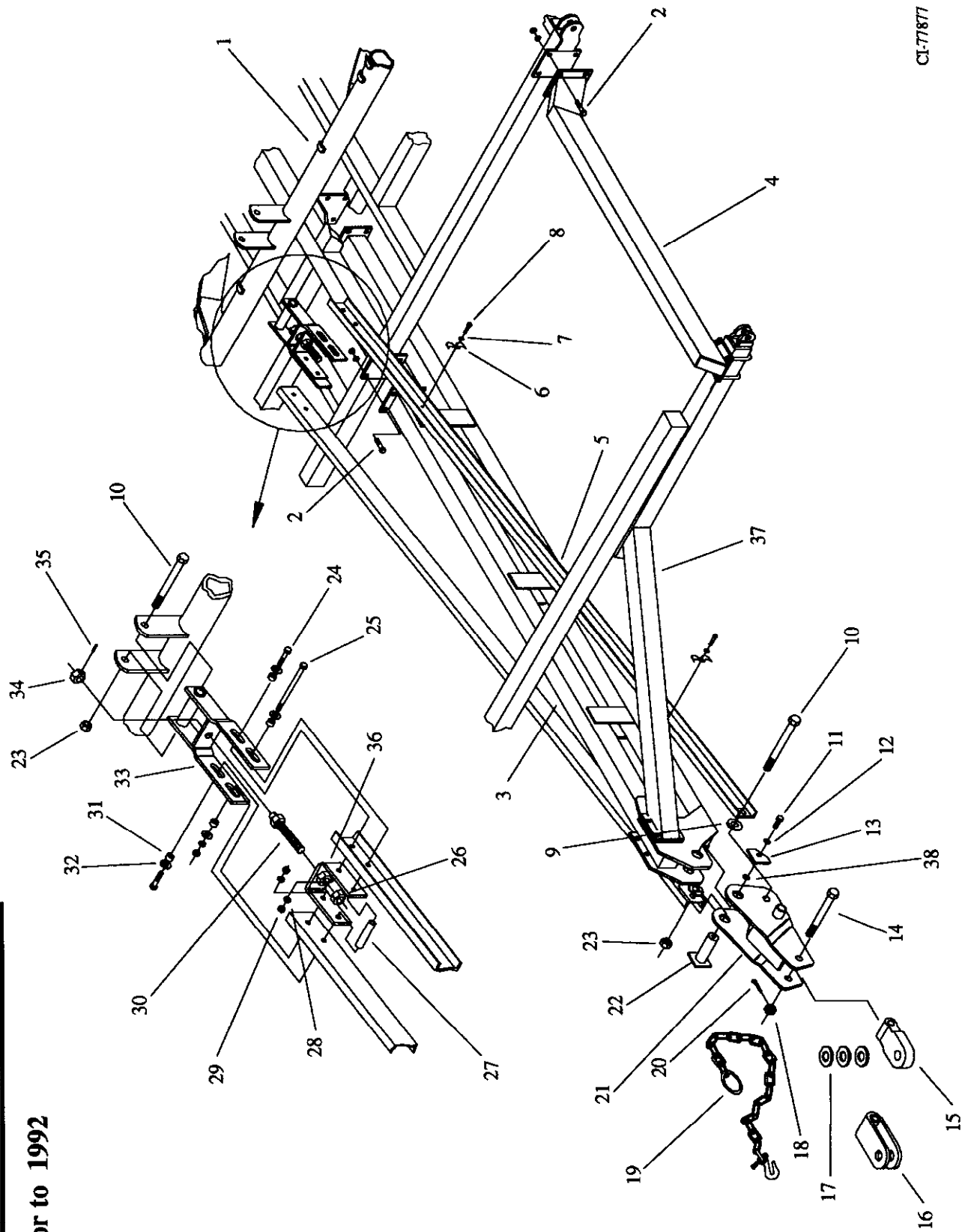
The drawing uses standard engineering conventions, with lines indicating the assembly sequence and relative positions of the parts. The exploded view allows for a clear understanding of the overall structure and the role of each individual component.

9

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48917	3411 Main Axle	22	53486	Multi-Hitch Pivot
	48918	3420 Main Axle	23	53495	Pivot Shaft
	48919	3450 Main Axle	24	88348	INC Lock Nut
2	88290	3/4NC x 2 GR8 Bolt	25	88409	5/8NC x 2-1/2 GR5 Bolt
3	48490	Main Pole	26	88557	5/8NC x 9 GR5 Bolt
4	49098	Main Frame Bar	27	88141	INC Jam Nut
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
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	INC Slotted Nut
13	51351	Washer (3/8x.78ID x 3OD)	36	88648	1/4 x 1-1/4 Roll Pin
14	52329	Hose Holder	37	48889	Plate Assembly
15	11638	1-1/4NC x 6-1/2 Hitch Bolt	38	88553	5/8NC x 7-1/2 GR 5 Bolt
16	18237	Cast Hitch	39	88901	INC x 9-1/2 GR 5 Bolt
17	11364	Clevis Hitch	40	33535	Spring Tension Bushing (1.25ID x 1.53OD x 1")
18	19262	Shim Plates (1/2 x 2ID x 4OD)	41	54073	Hitch Spacer (1.313IDx1-3/4ODx4.25)
19	88350	1-1/4NC Slotted Nut	42	88292	5/8NC x 3-1/2 GR5 Bolt
20	55174	Safety Chain Assembly	43	54074	Bushing Spacer Tube (.640ID x 1"OD x 6.25)
21	88133	3/16 x 2 Cotter Pin	44	41927	Safety Chain Clevis

LEVEL LIFT HITCH

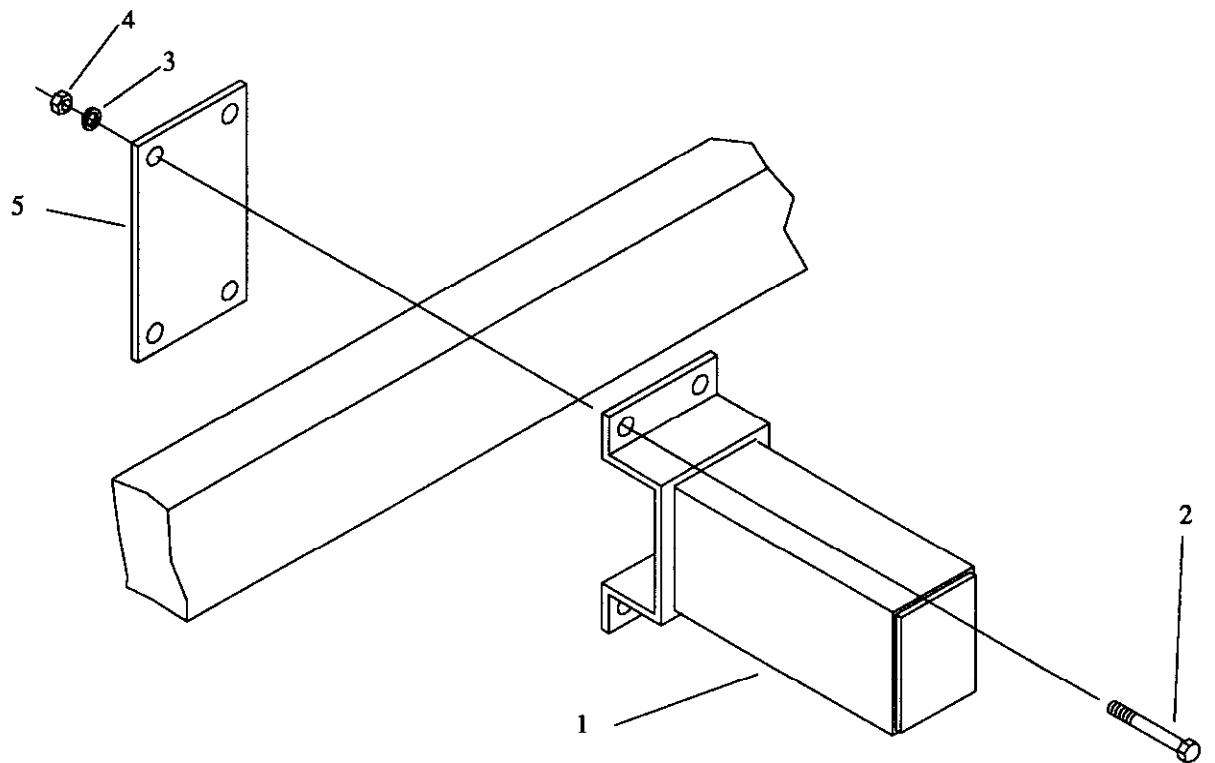
Prior to 1992



CI-77877

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48917	3411 Main Axle	20	88133	3/16 x 2 Cotter Pin
	48918	3420 Main Axle	21	48494	Main Hitch
	48919	3450 Main Axle	22	48492	Hitch Pivot Pin
2	88290	3/4NC x 2 GR8 Bolt	23	88348	1NC Lock Nut
3	48490	Main Pole	24	88409	5/8NC x 2-1/2 GR5 Bolt
4	49098	Main Frame Bar	25	88557	5/8NC x 9 GR5 Bolt
5	48886	Channel Assembly	26	88141	1NC Jam Nut
6	13215	Tube Clamp	27	49351	Spacer (.656ID x 1"OD x 4.96)
7	88362	3/8 Lock Washer	28	88129	5/8 Lock Washer
8	88553	3/8NC x 1-1/2 GR 5 Bolt	29	88126	5/8NC Nut
9	88196	1" Flat Washer	30	48890	Adjustment Rod
10	88901	1NC x 9-1/2 GR 5 Bolt	31	48882	Bushing (.656ID x 1"OD x .62)
11	88405	3/4NC x 1-3/4 GR5 Bolt	32	88277	5/8 Flat Washer
12	88130	3/4 Lock Washer	33	48885	Pivot Assembly
13	51351	Washer (3/8x3/4IDx3OD)	34	88124	1NC Slotted Nut
14	11638	Hitch Bolt	35	88648	1/4 x 1-1/4 Roll Pin
15	18237	Cast Hitch	36	48889	Plate Assembly
16	11364	Clevis Hitch	37	49092	10' Main Frame Disk Mount
17	19262	Shim Plates		49093	12' Main Frame Disk Mount
18	88350	1-1/4NC Slotted Nut		49094	15' Main Frame Disk Mount
19	55174	Safety Chain Assembly	38	88131	3/4 Flat Washer

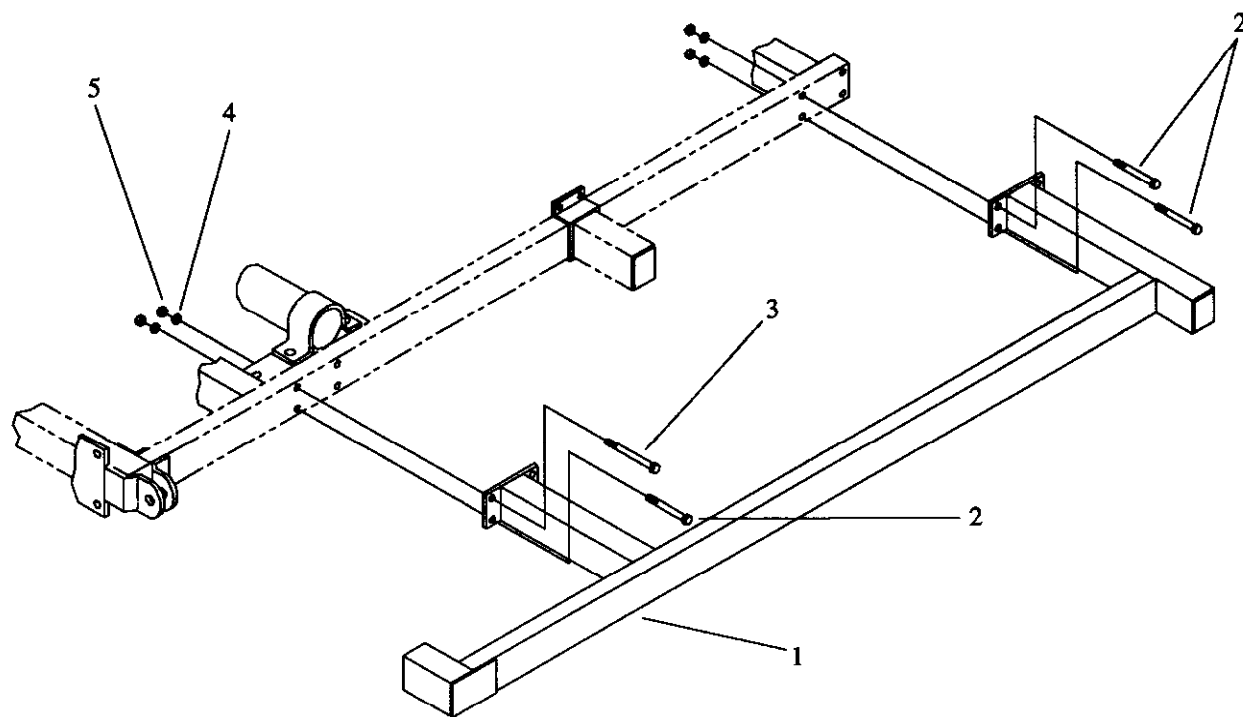
SADDLE STUB



CI-77824

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
5	26817	Backing Plate

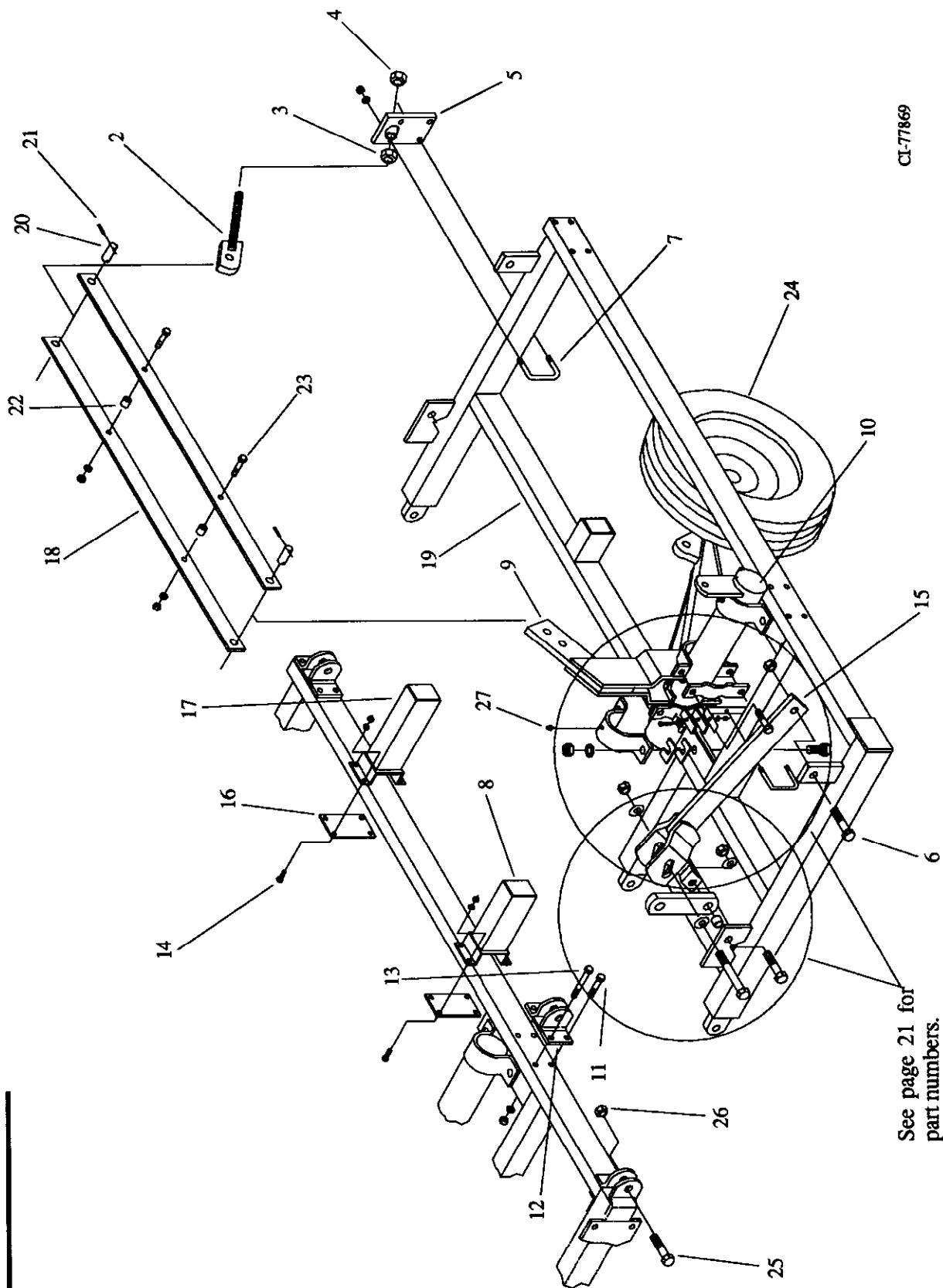
2FT RIGID WING



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-77869

See page 21 for
part numbers.

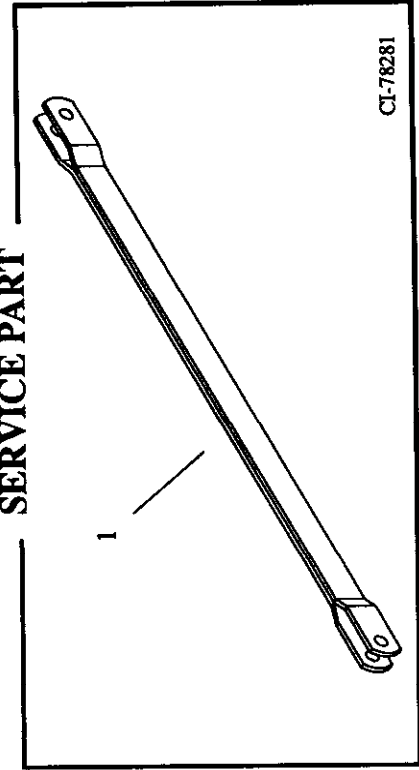
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48509	Main Mast Strap	15	48516	Left Wing Axle Lift Assembly (Shown)
2	48740	Wing Mast Adjustment	16	48517	Right Wing Axle Lift Assembly
3	88141	INC Jam Nut	17	26817	Backing Plate
4	88125	INC Nut	18	49025	12" Saddle Stub
5	48511	Adjustment Guide	19	53487	Mast Strap
6	88393	INC x 2-1/2 GR5 Bolt	20	48529	4'8" Left Wing (Shown)
7	88453	5/8NC x 4 x 4-1/2 U-Bolt	21	48528	4'8" Right Wing
8	26815	8" 3 x 4 Saddle Stub	22	49874	Pin
9	48507	8.0 Wing Axle Mast	23	42848	Cylinder Pin Lock
10	48525	Left Single Wing Axle (Shown)	24	48672	Bushing (.656IDx1"ODx1.06 Lg)
	48524	Right Single Wing Axle	25	5/8NC x 2-1/2 GR5 Bolt	
		(See page 45 for Hub & Spindle)	26	95L x 15 Wheel Assembly	
11	88292	5/8NC x 3-1/2 GR5 Bolt	27	Wheel Rim 15 x 8 6Bolt	
12	48537	Wing Hinge		95L x 15 Tubeless Tire 8Ply	
13	88298	5/8NC x 4 GR5 Bolt		Vavle Stem Assembly	
14	88475	1/2NC x 1-1/2 GR5 Bolt		INC x 3-1/2 GR5 Bolt	
				INC Lock Nut	
				1/8NPT Grease Fitting	

NOTE: Standard nuts and lock washers are not called out. Anything other than standard will be called out.

STANDARD NUTS AND LOCK WASHERS

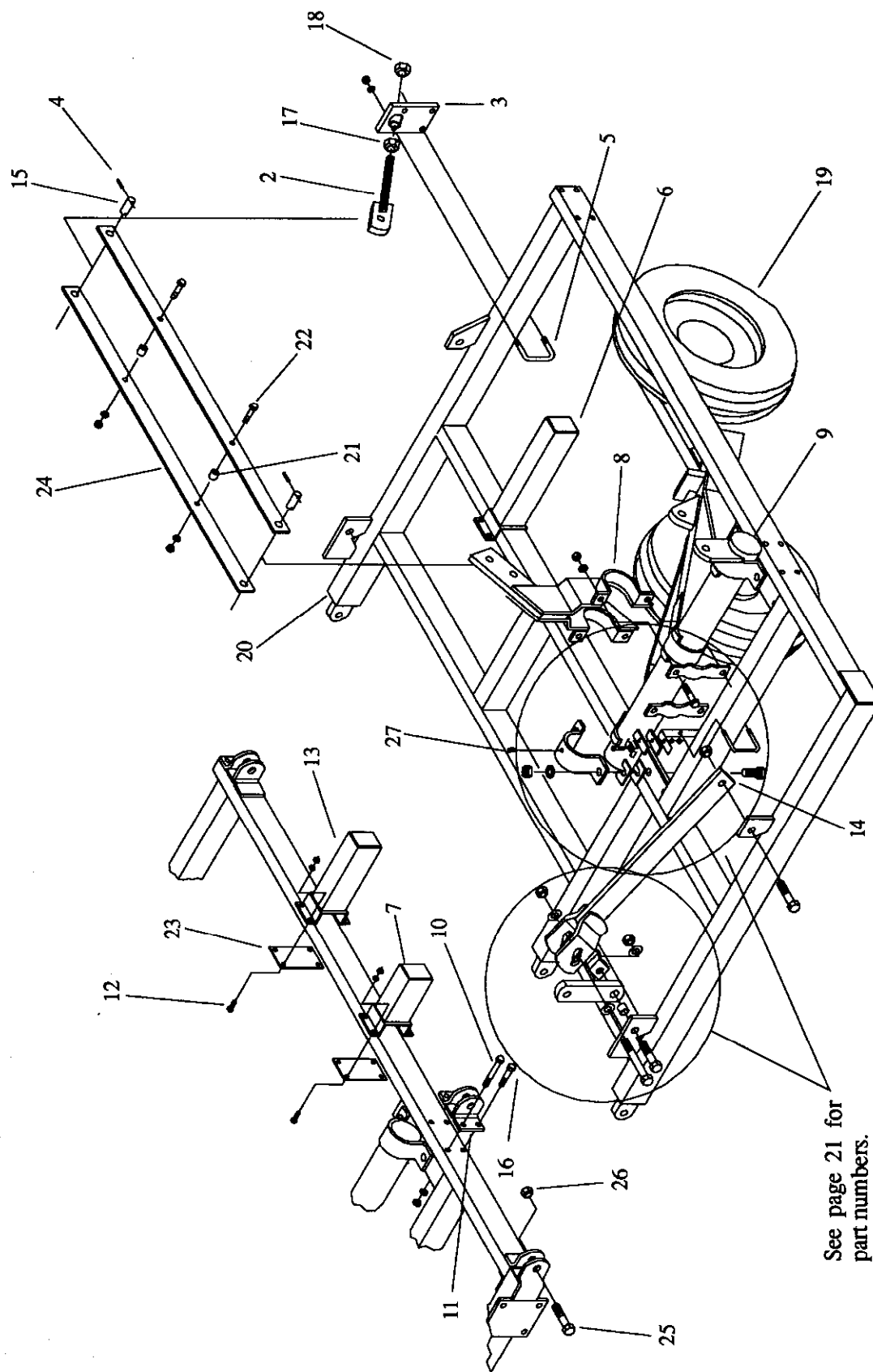
88172	1/4NC Nut	88262	1/4 Lock Washer
88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

SERVICE PART



CI-78281

7' WING



See page 21 for
part numbers.

CI-77870

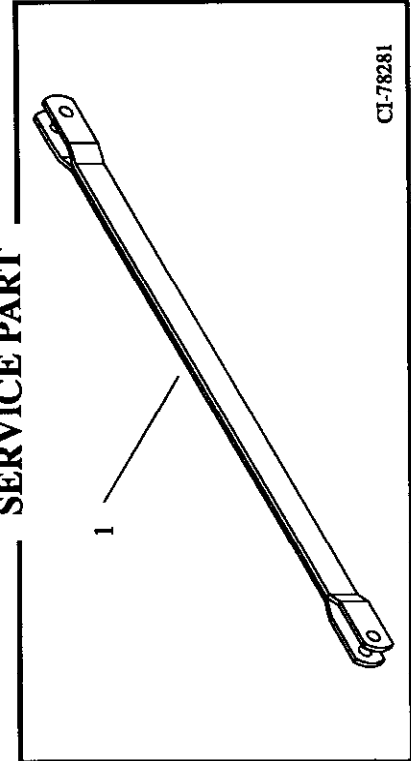
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48509	Wing Mast Rod	15	49874	Pin
2	48740	Wing Mast Adjustment	16	88292	5/8NC x 3-1/2 GR5 Bolt
3	48511	Adjustment Guide	17	88141	1NC Jam Nut
4	42484	Cylinder Lock Pin	18	88125	1NC Nut
5	88453	5/8NC x 4 x 4-1/2 U-Bolt	19	16290	95L x 15 Wheel Assembly
6	48536	20" 3 x 4 Saddle Stub	10498		Wheel Rim 15 x 8 6Bolt
7	26815	8" 3 x 4 Saddle Stub	16287		95L x 15 Tubeless Tire 8Ply
8	48507	8.0 Wing Axle Mast	30784		Valve Stem Assy
9	48967	Left TA Wing Axle Assembly (Shown)w/Walker	49398		11L x 15 Wheel Assy
	48527	Left Wing Axle Assy without Walker	41279		11L x 15 Tire 12Ply
	48968	Right TA Wing Axle Assembly w/Walker	48531		Left 7' Wing (Shown)
	48526	Right Wing Axle Assy without Walker	48530		Right 7' Wing
		(See page 47 for Walker)	48672		Bushing (.656IDx1"ODx1.06Long)
10	88298	5/8NC x 4 GR5 Bolt	21		
11	48537	Wing Hinge	22	88409	5/8NC x 2-1/2 GR5 Bolt
12	88475	1/2NC x 1-1/2 GR5 Bolt	23	26817	Backing Plate
13	49025	12" Saddle Stub	24	53487	Mast Strap
14	48518	Left Wing Lift Assembly (Shown)	25	88447	1NC x 3-1/2 GR5 Bolt
	48519	Right Wing Lift Assembly	26	88348	1NC Lock Nut
			27	88263	1/8NPT Grease Fitting

NOTE: Standard nuts and lock washers are not called out. Anything other than standard will be called out.

STANDARD NUTS AND LOCK WASHERS

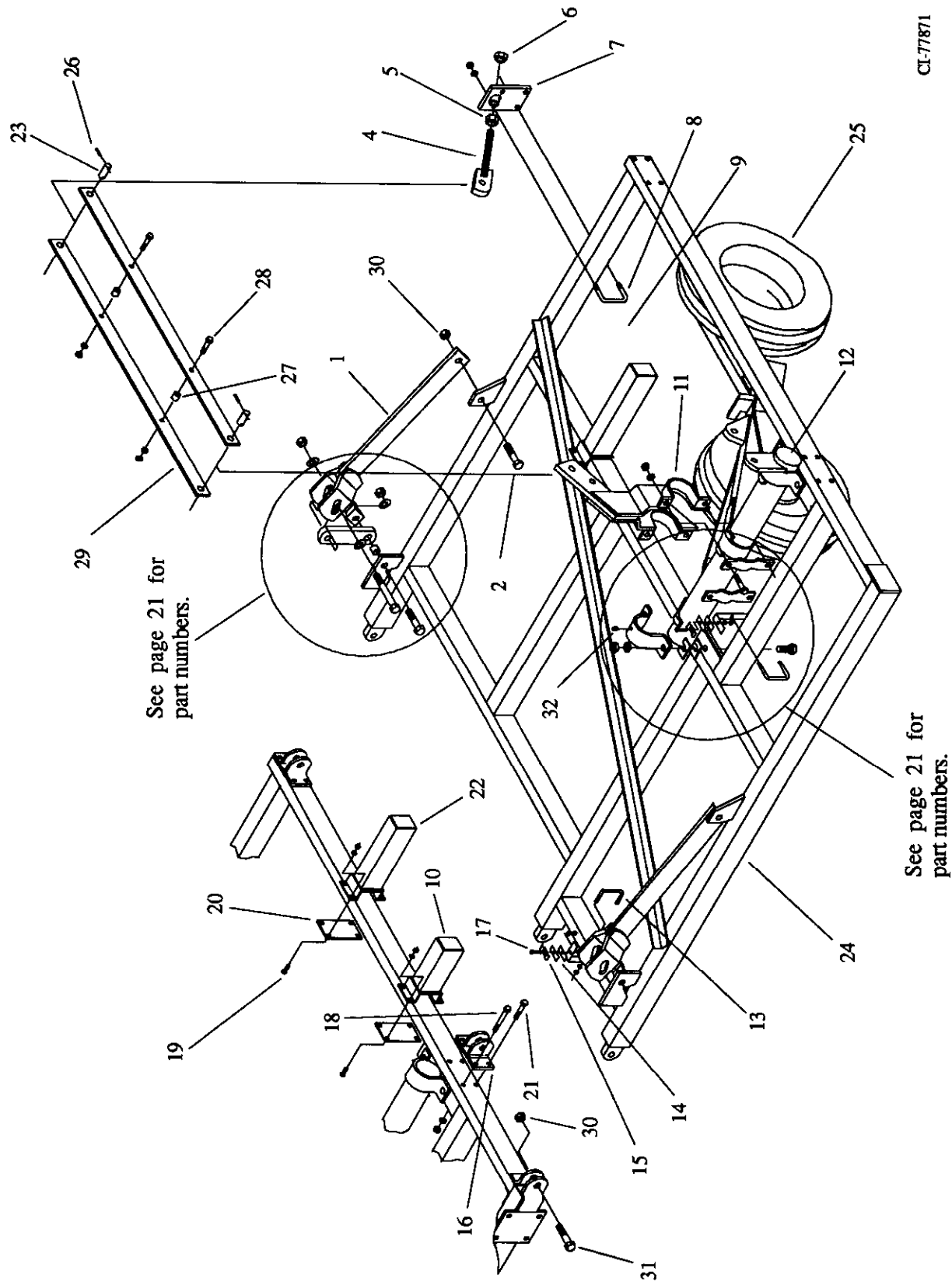
88172	1/4NC Nut	88262	1/4 Lock Washer
88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

SERVICE PART



CI-78281

9' 4" WING



CL-77871

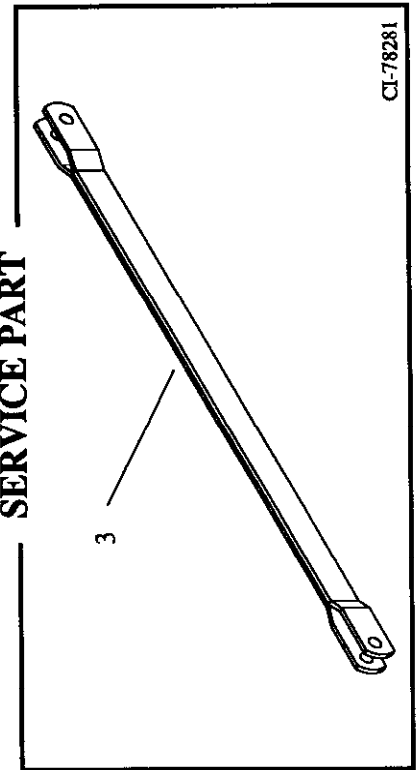
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48518	Left Wing Lift Assembly (Shown)	19	88475	1/2NC x 1-1/2 GR5 Bolt
	48519	Right Wing Lift Assembly	20	26817	Backing Plate
2	88393	1NC x 2-1/2 GR5 Bolt	21	88292	5/8NC x 3-1/2 GR5 Bolt
3	48509	Main Mast Strap	22	49025	12" Saddle Stub
4	48740	Wing Mast Adjustment	23	49874	Pin
5	88141	1NC Jam Nut	24	48533	Left 9'4" Wing (Shown)
6	88125	1NC Nut		48532	Right 9'4" Wing
7	48511	Adjustment Guide	25	16290	95L x 15 Wheel Assembly
8	88453	5/8NC x 4 x 4-1/2 U-Bolt		10498	Wheel Rim 15 x 8 6 Bolt
9	48536	20" 3 x 4 Saddle Stub		16287	95L x 15 Tubeless Tire 8 Ply
10	26815	8" 3 x 4 Saddle Stub		30784	Valve Stem Assembly
11	48507	8.0 Wing Axle Mast		49398	11L x 15 Wheel Assembly
12	48967	Left TA Wing Axle Assy with Walker (Shown)		10498	Wheel Rim 15 x 8 6 Bolt
	48527	Left Wing Axle Assy without Walker		30784	Valve Stem Assembly
	48968	Right TA Wing Axle Assy w/Walker		41279	11L x 15 Tire 12 Ply
	48526	Right Wing Axle Assy without Walker	26	42484	Cylinder Lock Pin
		(See page 45 for Hub & Spindle)	27	48672	Bushing (.656IDx1"ODx1.06L Long)
		(See page 47 for Walker)	28	88409	5/8NC x 2-1/2 GR5 Bolt
13	88515	3/8NC x 4 x 2-3/4 U-Bolt	29	53487	Mast Strap
14	15543	Base Plate	30	88348	1NC Lock Nut
15	13215	Tube Clamp	31	88447	1NC x 3-1/2 GR5 Bolt
16	48537	Wing Hinge	32	88263	1/8NPT Grease Fitting
17	88553	3/8NC x 1-1/2 GR5 Bolt			
18	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

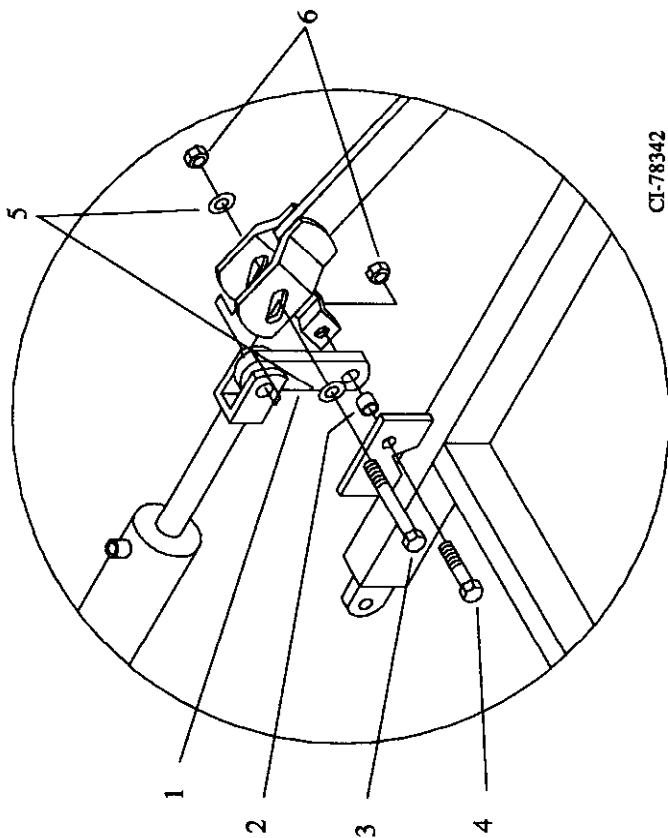
88103	3/8NC Nut	88362	3/8 Lock Washer
88104	1/2NC Nut	88303	1/2 Lock Washer
88126	5/8NC Nut	88129	5/8 Lock Washer
88110	3/4NC Nut	88130	3/4 Lock Washer
88371	7/8NC Nut	88341	7/8 Lock Washer

SERVICE PART



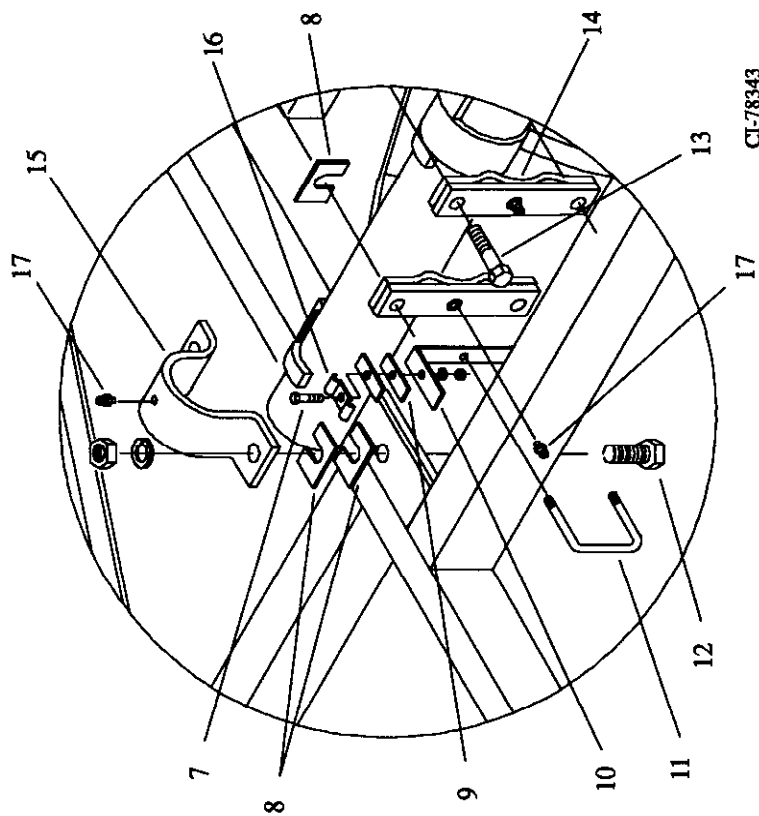
CI-78281

WING LIFT ASSEMBLIES



CI-78342

AXLE ASSEMBLY



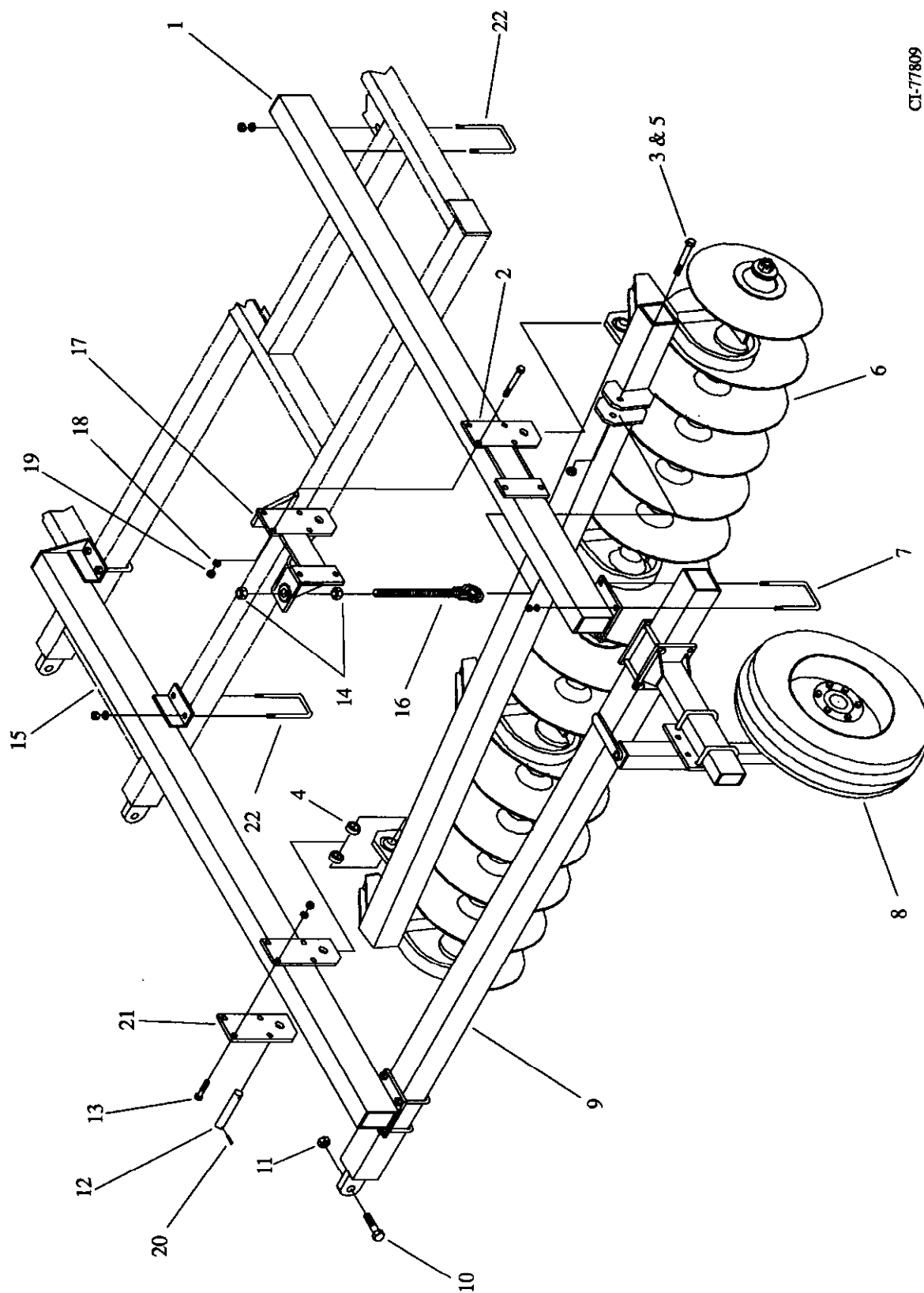
CI-78343

ITEM	PART NO	DESCRIPTION
1	48522	Wing Lift Link
2	48523	Wing Lift Bushing
3	88312	1NC x 5 GR5 Bolt
4	88447	1NC x 3-1/2 GR5 Bolt
5	88196	1" Flat Washer
6	88348	1NC Lock Nut
7	88553	3/8NC x 1-1/2 GR5 Bolt
8	10176	Shim

ITEM	PART NO.	DESCRIPTION
9	15543	*Base Plate
10	13499	Hydraulic Tube Bracket
11	88514	3/8NC x 4 x 3-3/4 U-Bolt
12	88495	7/8NC x 2-1/2 GR5 Bolt
13	88404	3/4NC x 2-1/2 GR5 Bolt
14	21375	Axle Saddle
15	10399	Axle Cap
16	13215	Tube Clamp
17	88263	1/8NPT Grease Fitting

*** NOTE: Two base plates must be used on the top of the big tube bracket to clear the disk gang mounting bars.**

WING DISK GANG



CI-77809

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	49069	Left Outer Wing Bar (Shown)	10	88447	1NC x 3-1/2 GR5 Bolt
	49070	Right Outer Wing Bar	11	88348	1NC Lock Nut
2	49057	Left Backing Plate (Shown)	12	49302	Pin
	48058	Right Backing Plate	13	88395	5/8NC x 5 GR5 Bolt
3	88272	3/4NC x 4 GR5 Bolt	14	88336	1-1/8 Acme Nut
4	53174	Bushing (1-3/16IDx1-3/4ODx5/8)	15	49097	Left Inner Wing Bar (Shown)
5	88356	3/4NC Lock Nut		49096	Right Inner Wing Bar
6	49226	LH 9'4" Wing Gang Assy (152251) (Shown)	16	49300	Adjusting Bolt
		(See pages 25-26 for Gang Assembly)	17	49055	Left Adjusting Bracket (Shown)
7	88145	5/8NC x 4 x 5-1/4 U-Bolt		49056	Right Adjusting Bracket
8		Gauge Wheel (see page 38)	18	88129	5/8 Lock Washer
9	49085	Disk Wing Arm 9'4" (Shown)	19	88126	5/8NC Nut
	49083	Disk Wing Arm 4'8"	20	42484	Cylinder Lock Pin
	49084	Disk Wing Arm 7'	21	49071	Plate
			22	88503	5/8NC x 3 x 5-1/4 U-Bolt

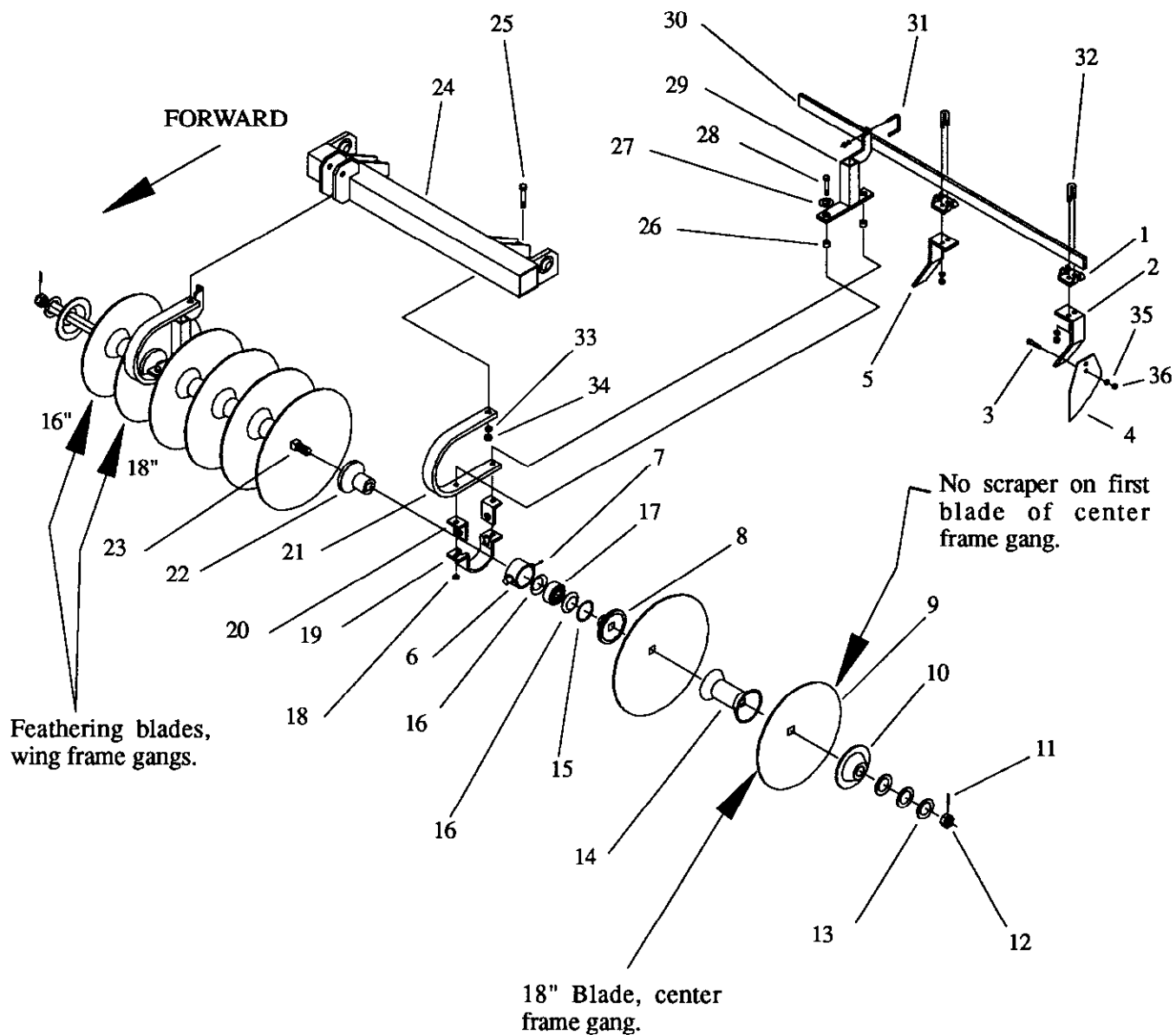
NOTE: Standard nuts and lock washers are not called out.
Anything other than standard will be called out.

STANDARD NUTS AND LOCK WASHERS

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

GANG ASSEMBLY

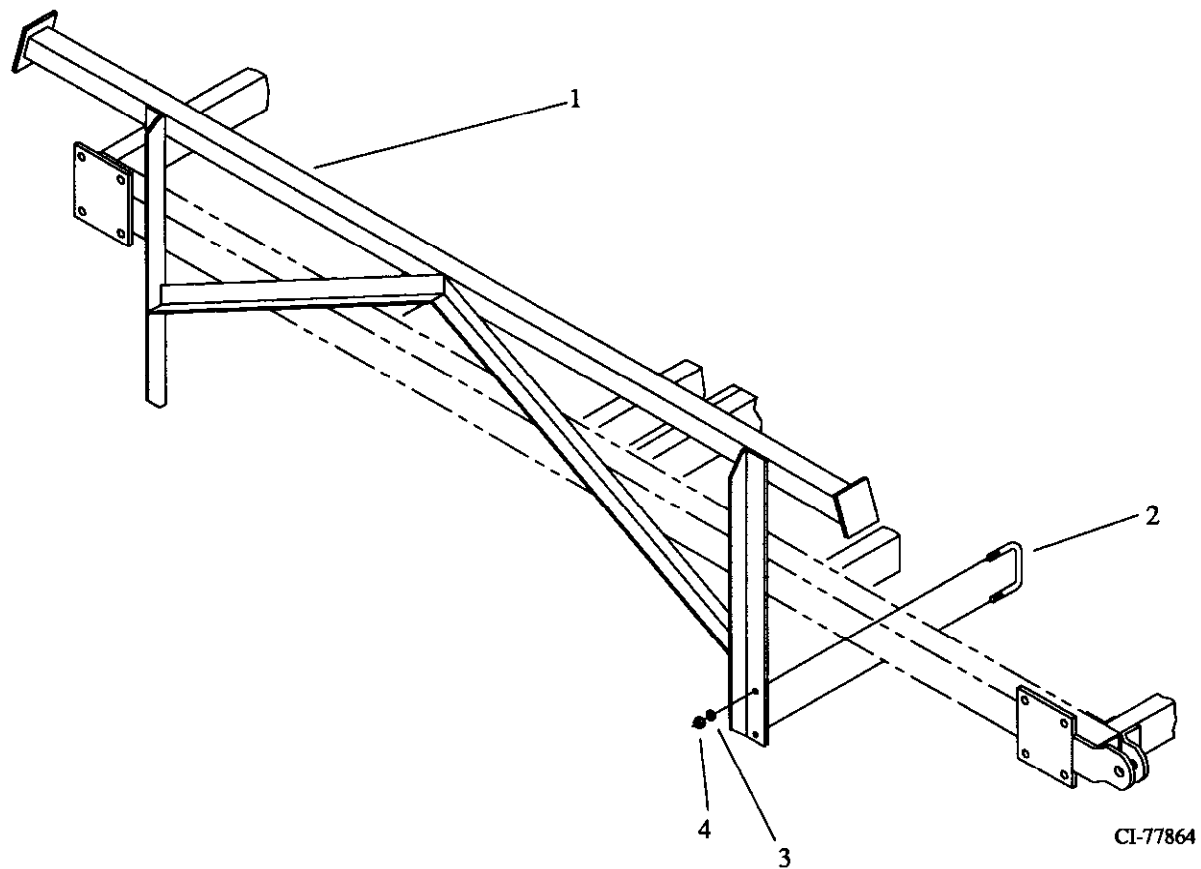
CENTER FRAME & WING FRAMES



CI-77863

COMPLETE SECTIONS			ITEM	PART NO.	DESCRIPTION
49214	RH 10' MF Gang Assy (242)		23	24557	49-1/2" Square Gang Shaft
49215	LH 10' MF Gang Assy (242)			24707	57" Square Gang Shaft
49223	RH 12' MF Gang Assy (2332)			24558	72" Square Gang Shaft
49224	LH 12' MF Gang Assy (2332)			24633	79-1/2" Square Gang Shaft
49221	RH 15' MF Gang Assy (2442)			24580	87" Square Gnag Shaft
49222	LH 15' MF Gang Assy (2442)			24697	94-1/2" Square Gang Shaft
49211	RH 15' Rigid Gang Assy (2441)		24	49113	R 10' MF Disk Hanger (242)(Shown)
49212	LH 15' Rigid Gang Assy (1442)			49114	L 10' MF Disk Hanger(242)
49208	RH 17' Rigid Gang Assy (2542)			49111	R 12' MF Disk Hanger (2332)
49209	LH 17' Rigid Gang Assy (2452)			49112	L 12' MF Disk Hanger (2332)
49218	RH 4'8" Wing Gang Assy (152)			49103	R 15' MF Disk Hanger (2442)
49219	LH 4'8" Wing Gang Assy (251)			49104	L 15' MF Disk Hnager (2442)
49359	RH 4'8" Wing Gang Assy (1441)			49117	R 15' Rigid Disk Hanger (2441)
49360	LH 4'8" Wing Gang Assy (1441)			49118	L 15' Rigid Disk Hanger (2441)
49216	RH 7' Wing Gang Assy (1542)			49115	R 17' Rigid Disk Hanger (2542)
49217	LH 7' Wing Gang Assy (2451)			49116	L 17' Rigid Disk Hanger (2542)
49364	LH 9'4" Wing Gang Assy (2332251)			49109	R 4'8" Wing Disk Hanger (152)
49363	RH 9'4" Wing Gang Assy (1522332)			49110	L 4'8" Wing Disk Hanger (152)
49226	LH 9'4" Wing Gang Assy (152251)			49368	R 4'8" Wing Disk Hanger (1441)
49225	RH 9'4" Wing Gang Assy (152251)			49369	L 4'8" Wing Disk Hanger (1441)
				49107	R 7' Wing Disk Hanger (1542)
				49108	L 7' Wing Disk Hanger (1542)
				49370	R 7' Wing Disk Hanger (142142)
				49371	L 7' Wing Disk Hanger (142142)
				49372	R 9'4" Wing Disk Hanger (1522332)
				49373	L 9'4" Wing Disk Hanger (1522332)
				49105	R 9'4" Wing Disk Hanger (152251)
				49106	L 9'4" Wing Disk Hanger (152251)
			25	88404	3/4NC x 2-1/2 GR5 Bolt
			26	24684	Pivot Bushing
			27	88277	5/8 Flat Washer
			28	88292	5/8NC x 3-1/2 GR5 Bolt
			29	24597	Left Scraper Bar Bracket (Shown)
				24623	Right Scraper Bar Bracker
			30	49213	Scraper Bar 52.5" (Shown)
				49230	Scraper Bar 67.5"
				49229	Scraper Bar 82.5"
				49228	Scraper Bar 75"
				49227	Scraper Bar 90"
				49380	Scraper Bar 45"
				24276	Scraper Bar 73"
			31	24217	1/2NC x 2-1/8 x 1-7/8 U-Bolt
			32	24329	1/2NC x 11/16 x 3-1/2 U-Bolt
			33	88130	3/4 Lock Washer
			34	88110	3/4NC Nut
			35	88303	1/2 Lock Washer
			36	88104	1/2NC Nut
ITEM	PART NO.	DESCRIPTION			
1	27950	Clip Scraper Arm			
2	49210	Scraper Bracket(All wing frames, inside gang end.)			
3	88445	1/2NC x 1-1/2 Carriage Bolt			
4	29540	Scraper Blade			
5	29547	Scraper Bracket (Standard)			
6	24595	Toggle Bearing Housing			
7	88263	1/8NPT Grease Fitting			
8	24551	Short Half Spool			
9	24706	Disk Blade 20"			
	24577	Disk Blade 18"			
	24704	Disk Blade 16"			
10	24708	Spring Washer			
11	88628	1/4 x 1-3/4 Roll Pin			
12	88524	1-1/8NC Slotted nut			
13	28736	2.10Dx1.25IDx.25 Flat Washer			
14	24605	Spool			
15	24572	Snap Ring			
16	24550	Retaining Washer			
17	24677	1-1/8 Square Bore Bearing			
18	88627	5/8NC Lock Nut			
19	24598	Bearing Clamp			
20	24596	Bearing Clip			
21	24648	Spring Shank			
22	28724	Long Bearing Spool			

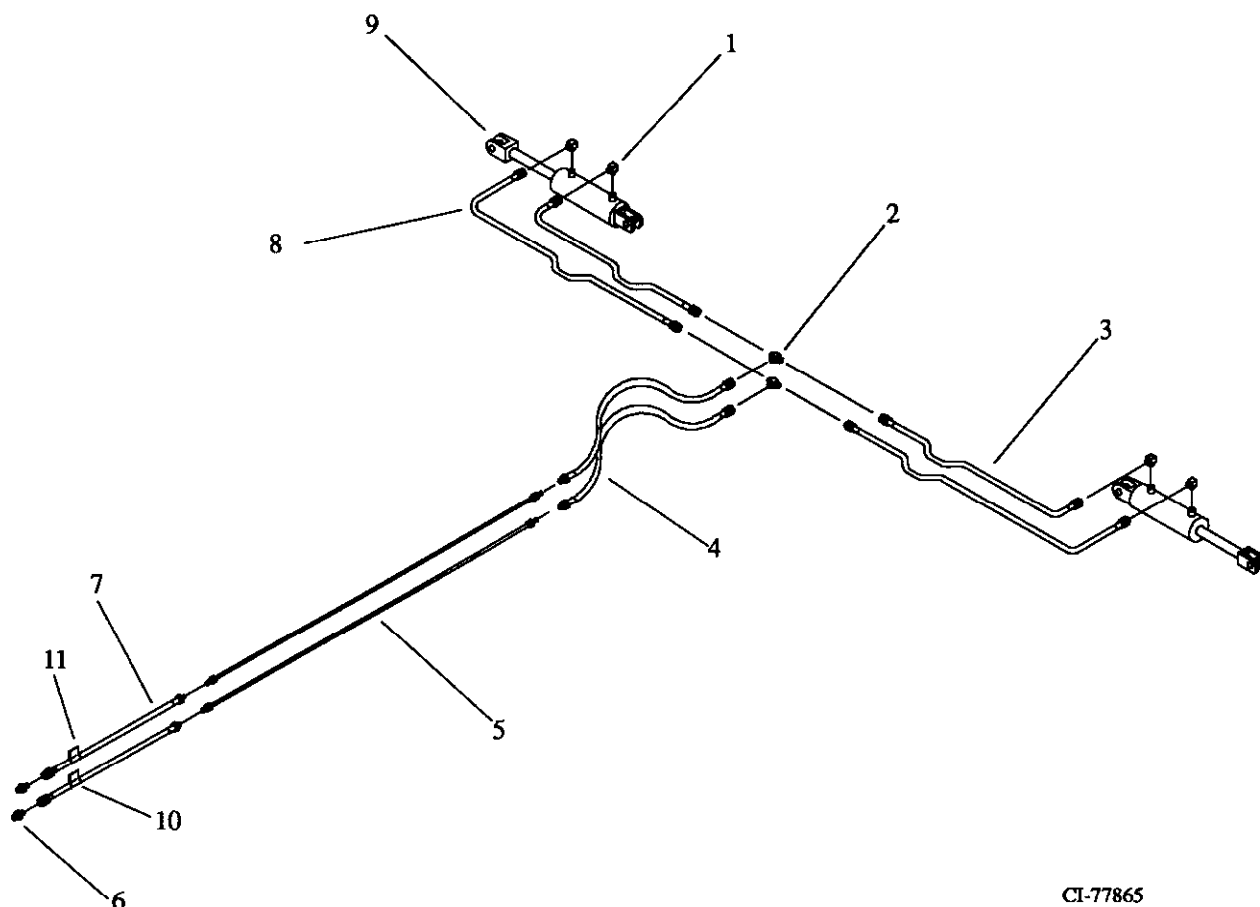
WING REST



ITEM	PART NO.	DESCRIPTION
1	48512	3411 Wing Rest
	48513	3420 Wing Rest
	48514	3450 Wing Rest
2	88453	5/8NC x 4 x 4-1/2 U-Bolt
3	88129	5/8 Lock Washer
4	88126	5/8NC Nut

WING LIFT HYDRAULICS

4'8" & 7' WINGS



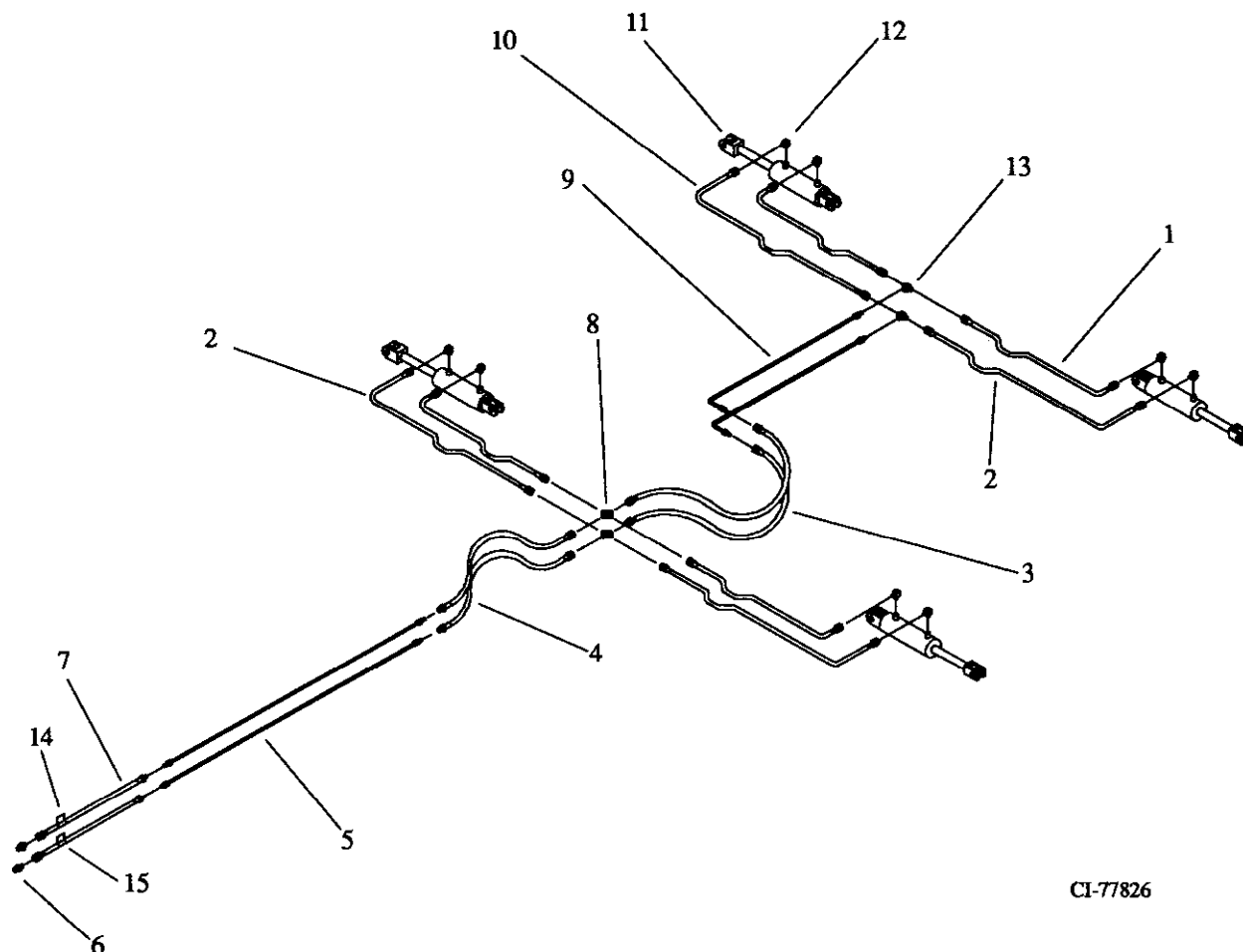
CI-77865

ITEM	PART NO.	DESCRIPTION
1	13235	Hydraulic Cylinder Port Elbow
2	13238	3/8 Tube Tee
3	13423	3/8 x 24 Hose (FF) (3411)
	13261	3/8 x 30 Hose (FF) (3420)
	14851	3/8 x 42 Hose (FF) (3450)
4	13259	3/8 x 18 Hose (MF) (3411,3420)
	13260	3/8 x 24 Hose (MF) (3450)
5	13253	1/2 x 120 Tube

ITEM	PART NO.	DESCRIPTION
6	13234	Coupler Adapter
7	13269	3/8 x 84 Hose (MF)
8	14851	3/8 x 42 Hose (FF) (3411)
	13265	3/8 x 56 Hose (FF) (3420)
	13268	3/8 x 78 Hose (FF) (3450)
9	51229	4 x 30 Cylinder
10	54900	Wings Up Decal
11	54901	Wings Down Decal

WING LIFT HYDRAULICS

9'4" WINGS



CI-77826

ITEM PART NO. DESCRIPTION

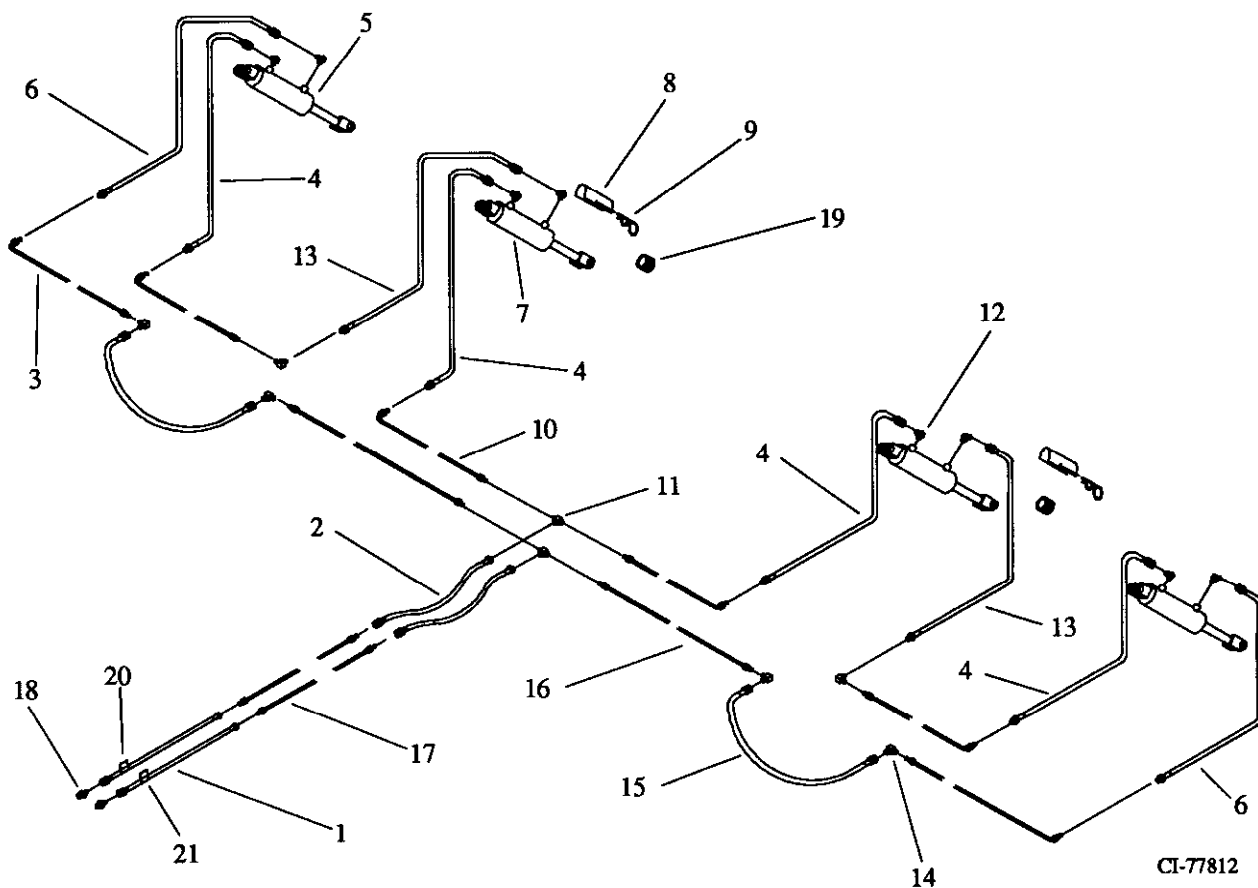
1	13261	3/8 x 30 Hose (FF) (3420)
	14851	3/8 x 42 Hose (FF) (3450)
2	13265	3/8 x 56 Hose (FF) (3420)
	13268	3/8 x 78 Hose (FF) (3450)
3	13262	3/8 x 30 Hose (MF)
4	13259	3/8 x 18 Hose (MF) (3420)
	13260	3/8 x 24 Hose (MF) (3450)
5	13253	1/2 x 120 Tube
6	13234	Coupler Adapter

ITEM PART NO. DESCRIPTION

7	13269	3/8 x 84 Hose (MF)
8	15910	3/8 Tube Cross
9	20464	1/2 x 48+2 Tube
10	13265	3/8 x 56 Hose (FF) (3420)
	25604	3/8 x 83 Hose (FF) (3450)
11	51229	4 x 30 Cylinder
12	13235	1/2 Cylinder Port Elbow
13	13238	3/8 Tube Tee
14	54901	Wings Down Decal
15	54900	Wings Up Decal

DEPTH CONTROL HYDRAULICS

3411 W/4'8" & 7' WINGS



ITEM	PART NO.	DESCRIPTION
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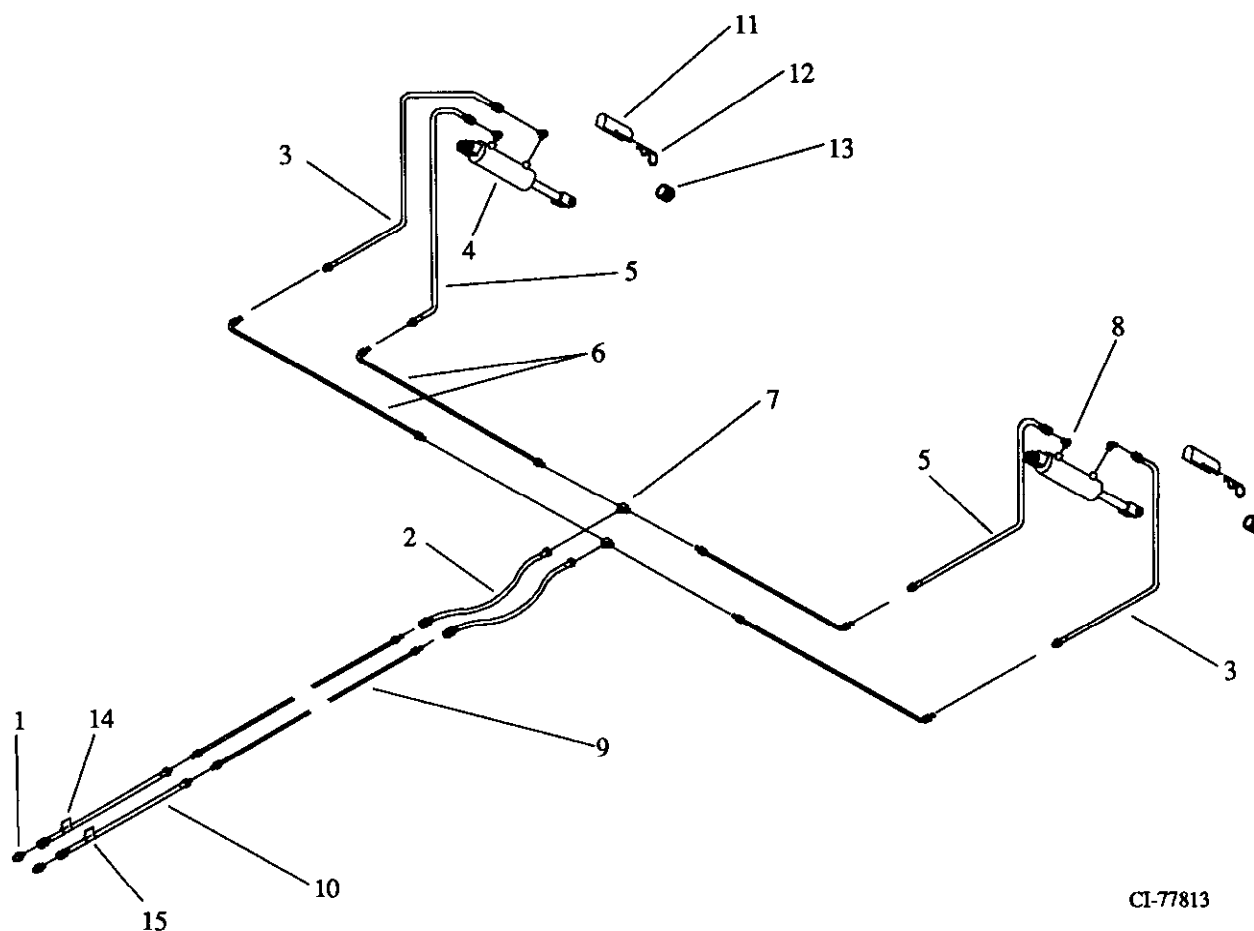
1	13269	3/8 x 84 Hose (MF)
2	13260	3/8 x 24 Hose (MF)
3	20510	1/2 x 38+2 Tube (4'8" Wing)
	13258	1/2 x 60+2 Tube (7' Wing)
4	13262	3/8 x 30 Hose (MF)
5	42579	4x8 Top Bypass Cylinder
6	13263	3/8 x 36 Hose (MF)
7	42580	4x9.3 Top Bypass Cylinder
8	13681	1-1/2" Channel Lock
9	42721	1/4 x 5 Spring Lock Pin
10	20464	1/2 x 48+2 Tube

ITEM	PART NO.	DESCRIPTION
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11	13238	3/4 JIC Tube Tee
12	13236	3/4 JIC x 1/2 NPT 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	20465	1/2 x 48 Tube
17	13253	1/2 x 120 Tube
18	13234	3/4 JIC x 1/2 NPT Coupler Adapter
19	15113	1-1/2" Stop Collar
20	54902	Main Up Decal
21	54903	Main Down Decal

DEPTH CONTROL HYDRAULICS

3411 & 3420 RIGID



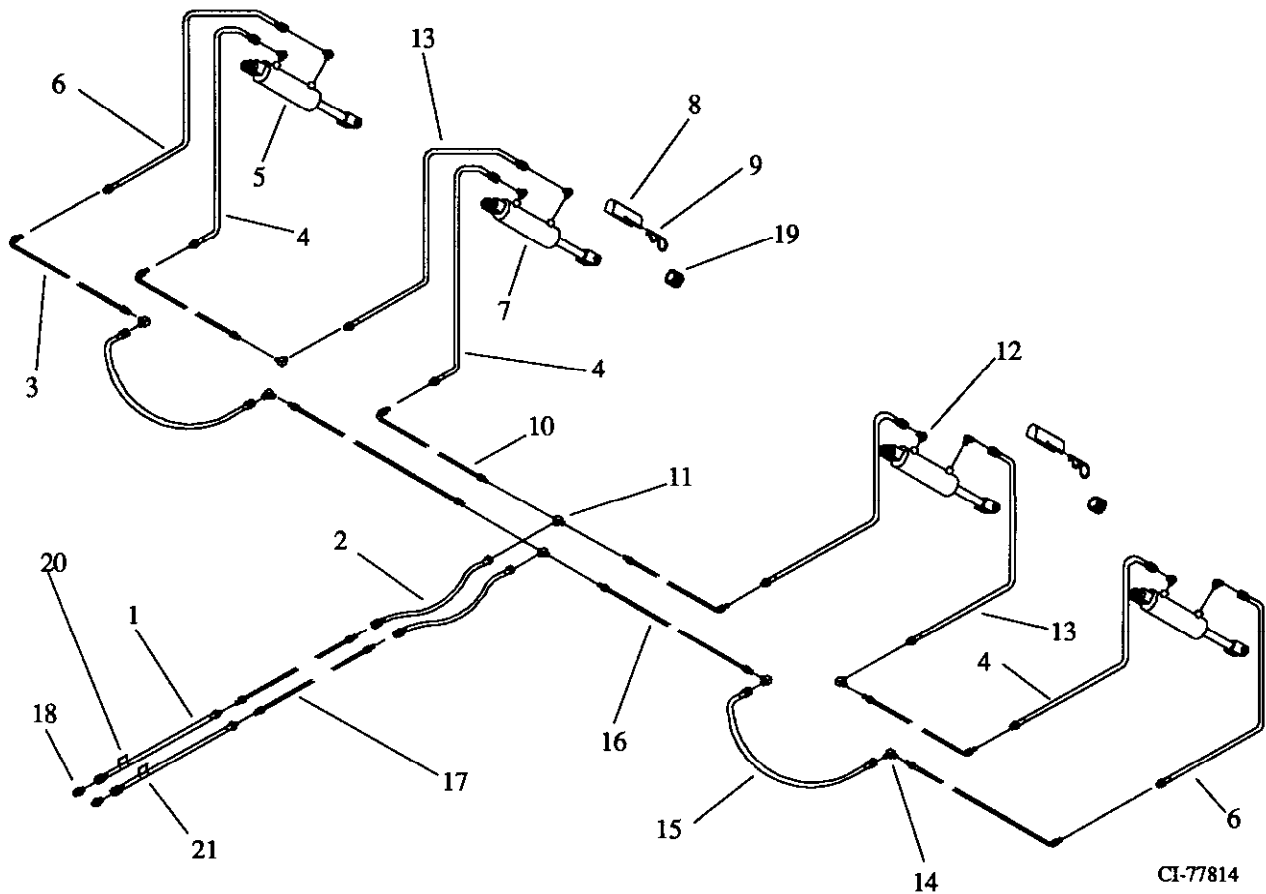
CI-77813

ITEM	PART NO.	DESCRIPTION
1	13234	3/4JIC x 1/2NPT Coupler Adapter
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	20464	1/2 x 48+2 Tube (3411)
	13258	1/2 x 60+2 Tube (3420)

ITEM	PART NO.	DESCRIPTION
7	13238	3/4JIC Tube Tee
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
14	54902	Main Up Decal
15	54903	Main Down Decal

DEPTH CONTROL HYDRAULICS

3420 W/4'8" or 7' WINGS



ITEM	PART NO.	DESCRIPTION
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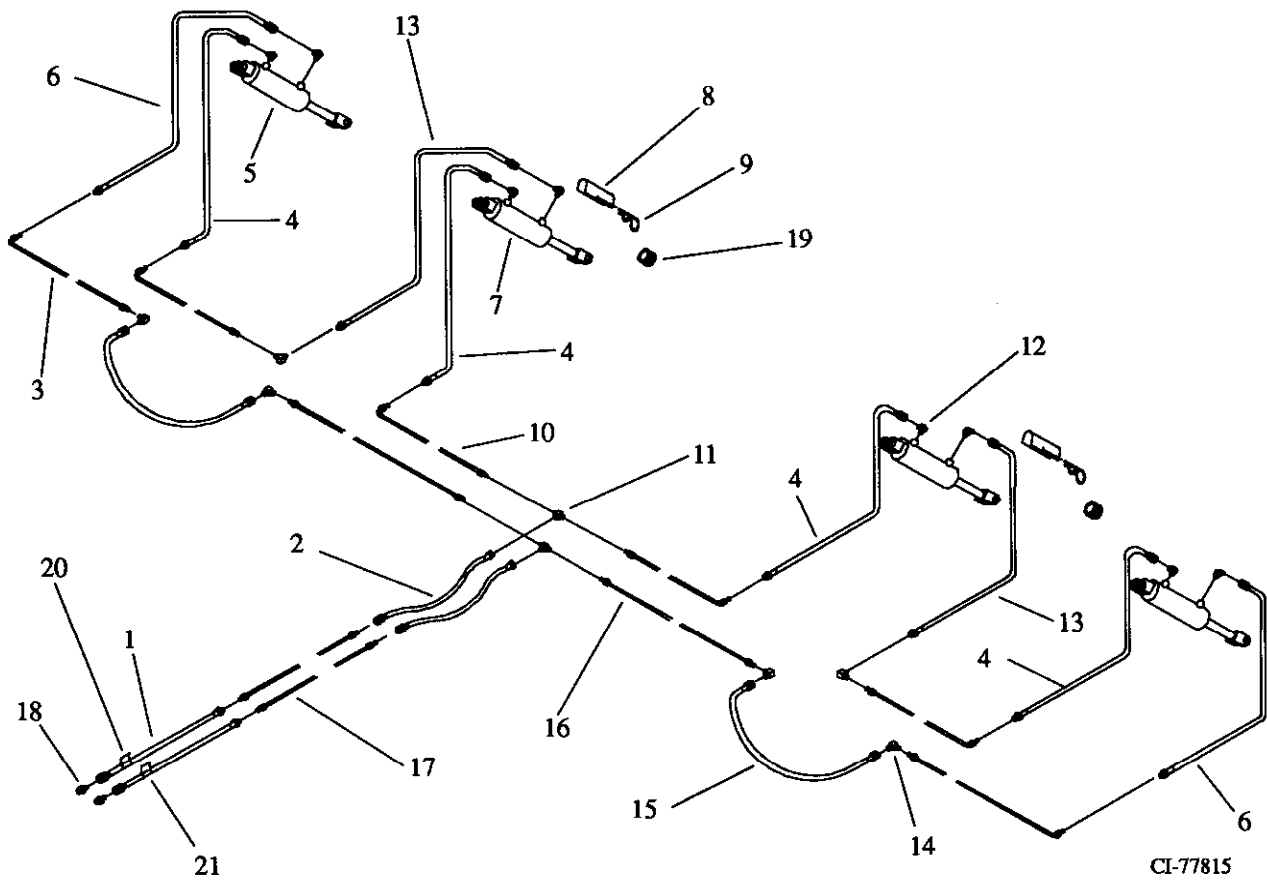
1	13269	3/8 x 84 Hose (MF)
2	13260	3/8 x 24 Hose (MF)
3	20510	1/2 x 38+2 Tube (4'8" Wing)
	13258	1/2 x 60+2 Tube (7' Wing)
4	13262	3/8 x 30 Hose (MF)
5	42579	4 x 8 Top Bypass Cylinder
6	13263	3/8 x 36 Hose (MF)
7	42580	4 x 9.3 Top Bypass Cylinder
8	13681	1-1/2" Channel Lock
9	42721	1/4 x 5 Spring Lock Pin
10	13258	1/2 x 60+2 Tube

ITEM	PART NO.	DESCRIPTION
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11	13238	3/4 JIC Tube Tee
12	13236	3/4 JIC x 1/2 NPT 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	3/4 JIC x 1/2 NPT Coupler Adapter
19	15113	1-1/2 Stop Collar
20	54902	Main Up Decal
21	54903	Main Down Decal

DEPTH CONTROL HYDRAULICS

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



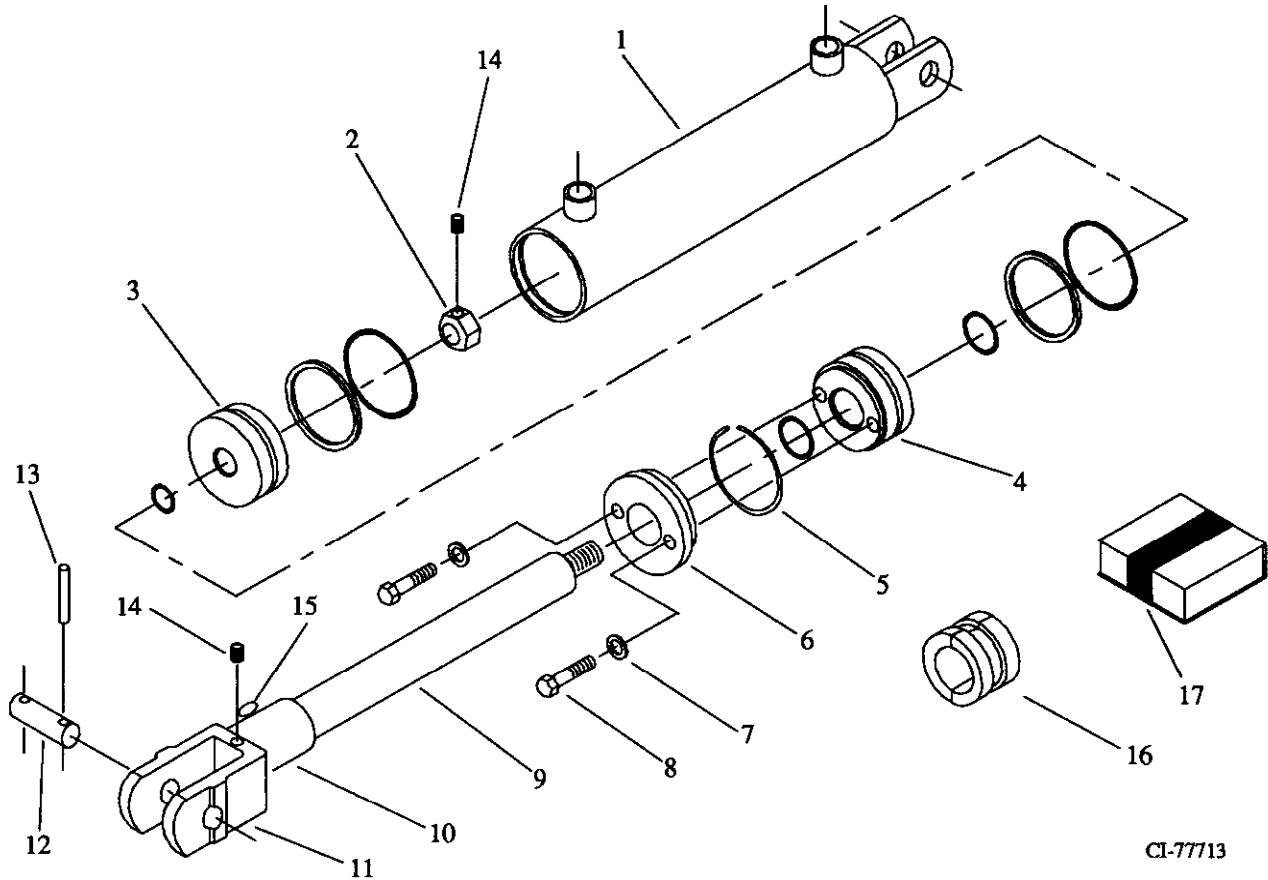
ITEM PART NO. DESCRIPTION

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
10	21020	1/2 x 78+2 Tube

ITEM PART NO. DESCRIPTION

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 Coupler Adapter
19	15113	1-1/2 Stop Collar
20	54902	Main Up Decal
21	54903	Main Down Decal

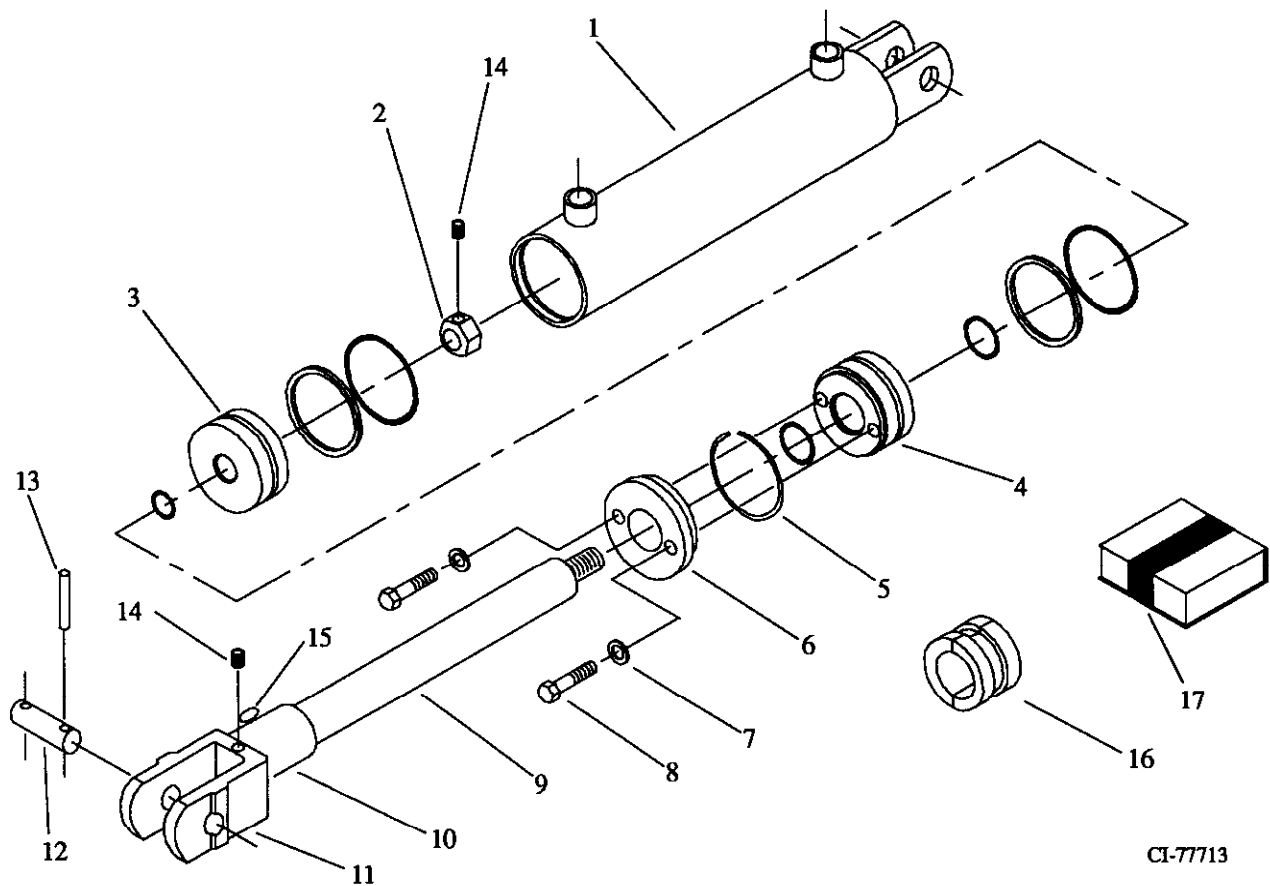
4 x 8 TOP BYPASS



CI-77713

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	42579	4 x 8 Top Bypass Cylinder (Series PX)	9	13569	4 x 8 Cylinder Rod (SS)
	14523	4 x 8 Top Bypass Cylinder (Series PB)	10	13570	Stop Collar Screw Stop
1	42573	4x8 Cylinder Tube Assy TBP	11	14822	Cylinder Yoke
2	14824	Piston Lock Nut	12	42473	Cylinder Pin
3	42577	Piston	13	42484	Cylinder Lock Pin
4	42576	End Gland	14	88706	Set Screw 5/16NC x 5/16
5	12286	4" Cylinder Snap Ring	15	88387	Thumb Screw 3/8NC x 3/4
6	13851	Stop Plate 4 x 8	16	15113	Stop Collar 1-1/2
7	88362	Lock Washer 3/8	17	42664	Seal Kit (Series PX - All)
8	88553	Bolt 3/8NC x 1-1/2 GR5		14906	Seal Kit (Series #PB-10,000 & Up)
				14537	Seal Kit (series #PB-10,000 & Below)

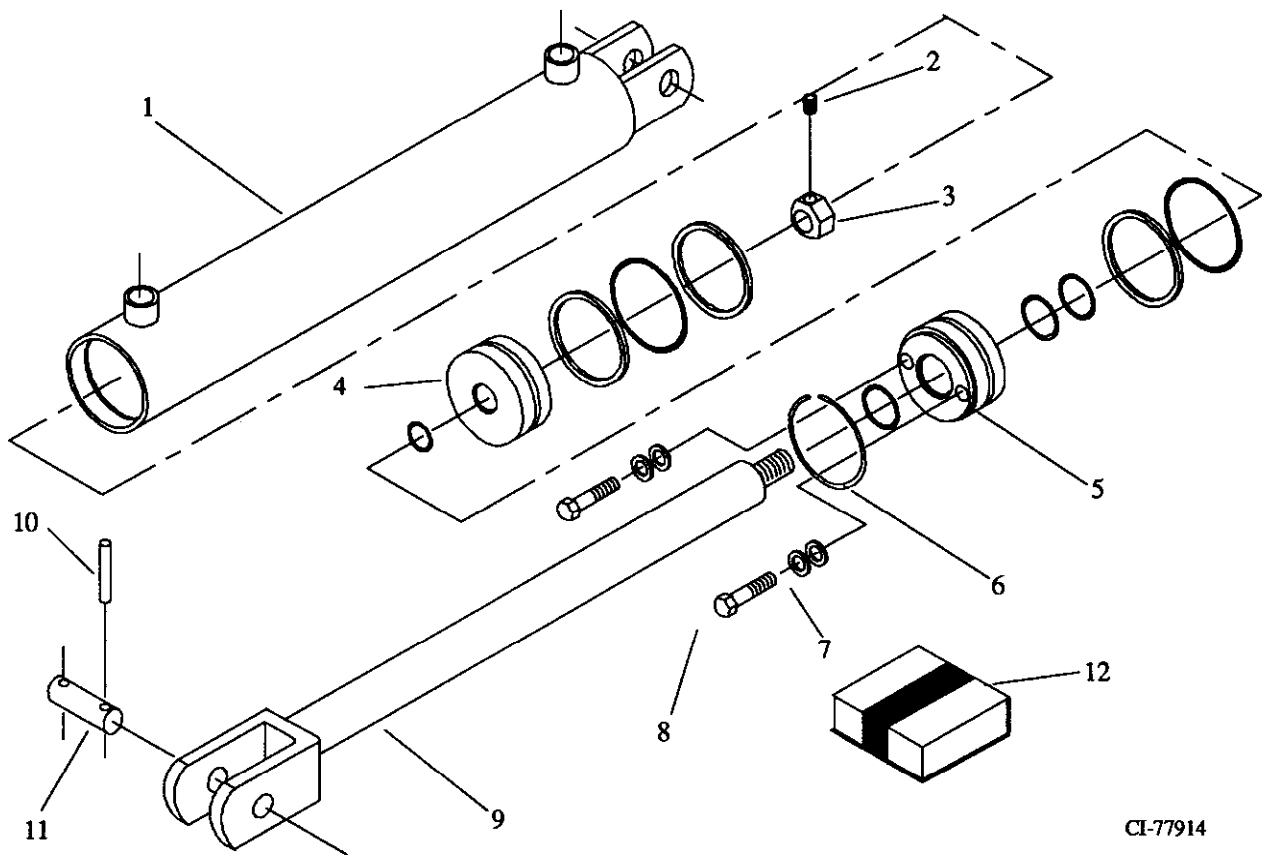
4 x 9.3 TOP BYPASS



CI-77713

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	16211	4 x 9.3 Top Bypass Cylinder w/Screw Stop(Series #PE)	8	88553	Bolt 3/8NC x 1-1/2 GR5
	42580	4 x 9.3 Top Bypass Cylinder (Series #PY)	9	16221	4 x 9.3 Cylinder Rod
1	42574	4x9.3 Cylinder Tube Assy TBP	10	13570	Stop Collar Screw Stop
2	14824	Piston Lock Nut	11	14822	Cylinder Yoke
3	42577	Piston	12	42473	Cylinder Pin
4	42576	End Gland	13	42484	Cylinder Lock Pin
5	12286	4" Cylinder Snap Ring	14	88706	Set Screw 5/16NC x 5/16
6	13851	Stop Plate 4 x 8	15	88387	Thumb Screw 3/8NC x 3/4
7	88362	Lock Washer 3/8	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

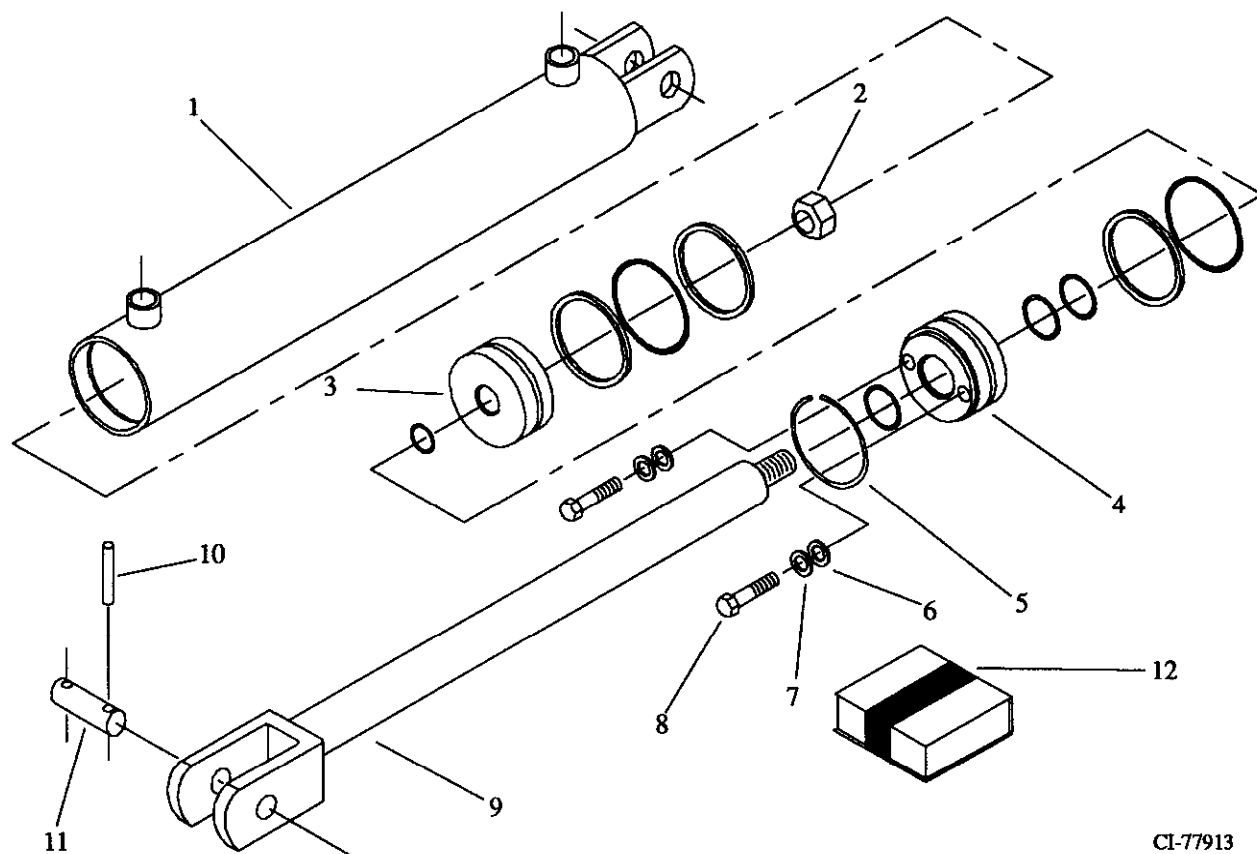
ITEM	PART NO.	DESCRIPTION
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	20960	4 x 30 Standard (Series #KA)
	51229	4 x 30 Standard (Series #RD)
1	20961	4x30 Cylinder Tube Assembly
2	88706	Set Screw 5/16NC x 5/16
3	14824	Piston Lock Nut
4	12282	Cylinder Piston
5	42576	End Gland

ITEM	PART NO.	DESCRIPTION
------	----------	-------------

6	12286	4" Cylinder Snap Ring
7	88278	5/16 Flat Washer
8	88566	3/8NC x 3/4 Bolt
9	20963	4x30 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

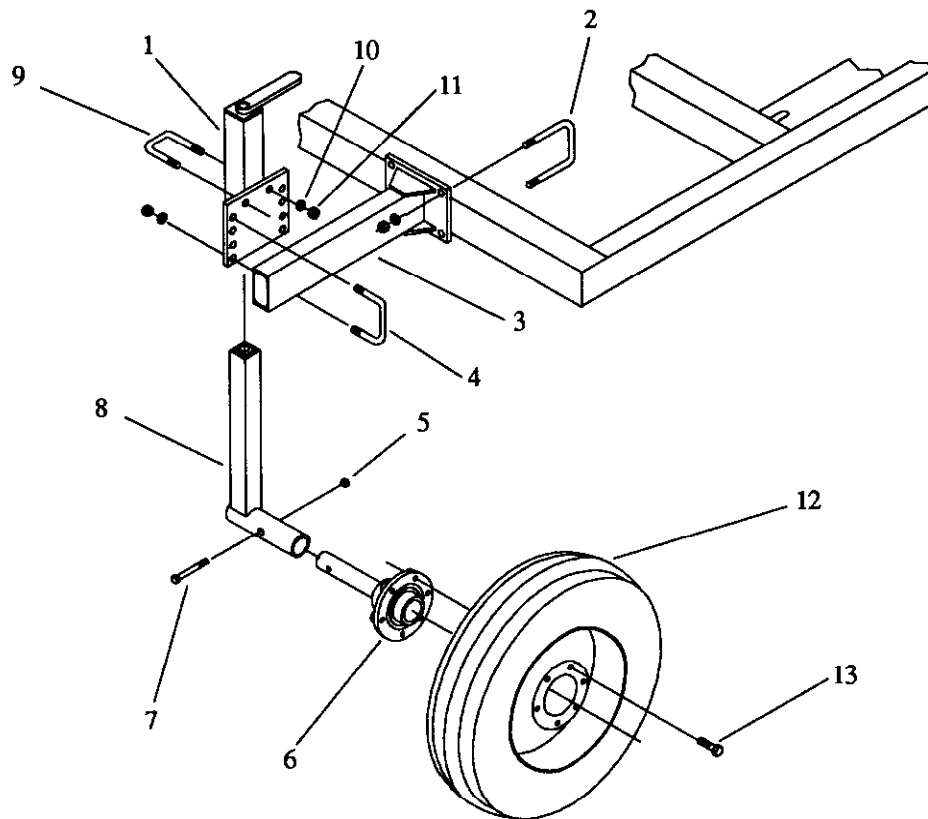
ITEM	PART NO.	DESCRIPTION
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	20966	5 x 30 Standard
1	20967	5x30 Cylinder Tube Assembly
2	42082	1-1/2NF Jam Lock Nut
3	13293	Cylinder Piston
4	13294	5" Cylinder Gland
5	12324	5" Cylinder Snap Ring
6	47802	Snap Ring Washer

ITEM	PART NO.	DESCRIPTION
------	----------	-------------

7	88278	5/16 Flat Washer
8	88566	3/8 NC x 3/4 GR5 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)

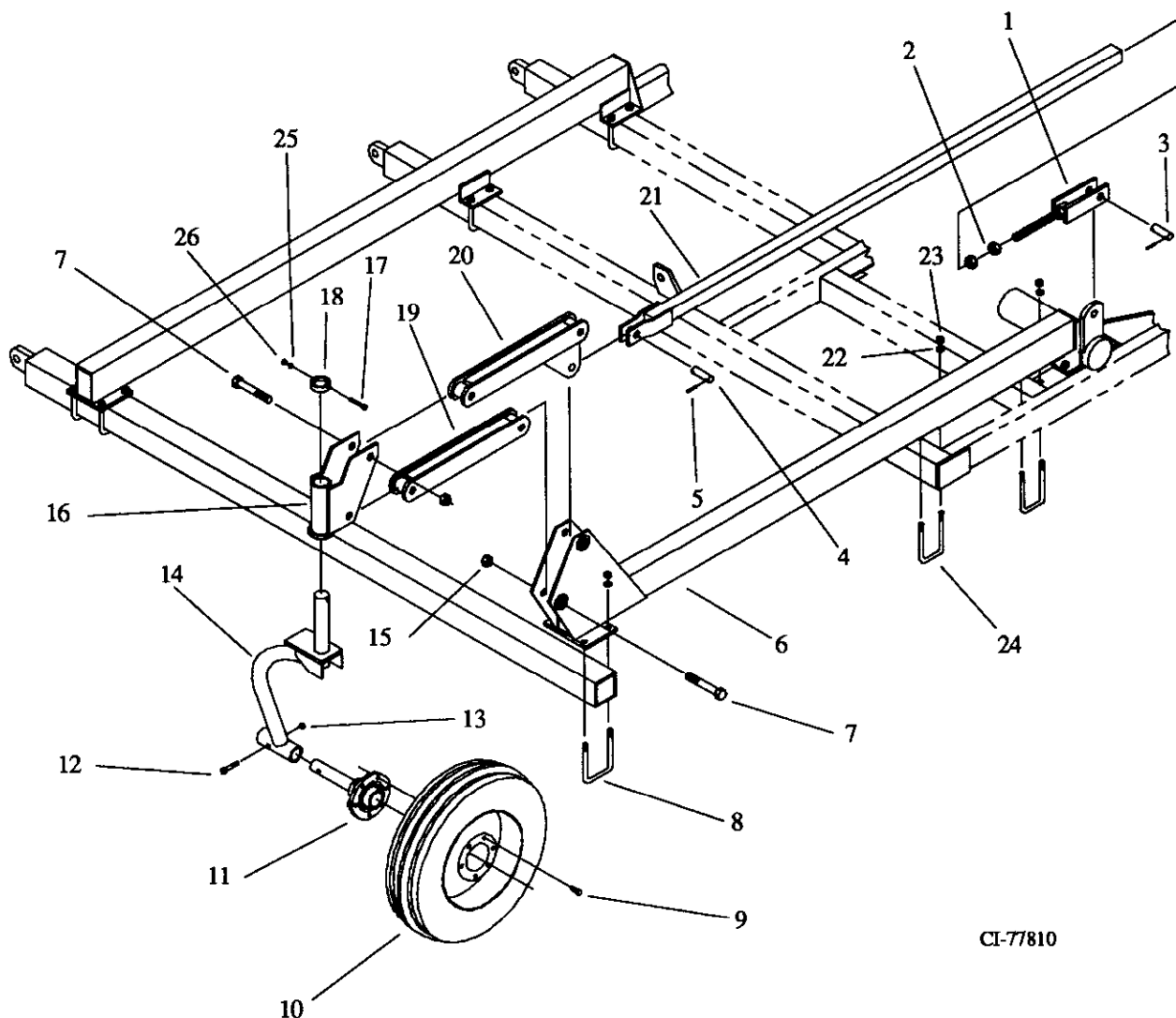
GAUGE WHEEL



CI-77861

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	15485	Top Adjustment Assembly	9	88311	5/8NC x 2-1/2x 3-3/4 U-Bolt
2	88501	5/8NC x 4 x 4-1/4 U-Bolt	10	88129	5/8 Lock Washer
3	15321	Gauge Wheel Mount	11	88126	5/8NC Nut
4	88388	5/8NC x 4 x 3-1/4 U-Bolt	12	16290	95L x 15 Wheel Assembly
5	88304	1/2NF Lock Nut		10498	Wheel Rim 15 x 8 6 Bolt
6	41233	1-3/4 Hub & Spindle		16287	95L x 15 Tubeless Tire 8Ply
7	88313	1/2NF x 3 GR5 Bolt		30784	Valve Stem Assembly
8	26774	Gauge Wheel Leg	13	88142	1/2NF x 1 Wheel Bolt

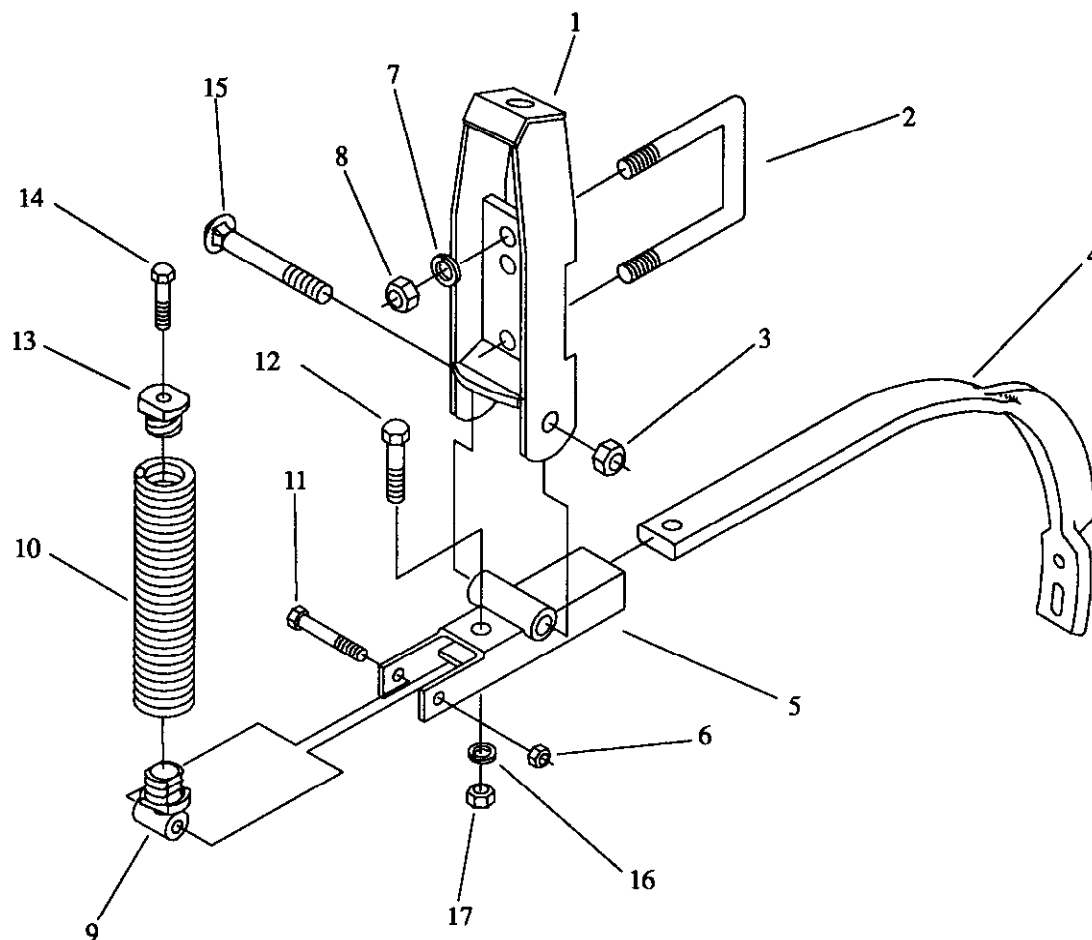
PARALLEL LINKAGE GAUGE WHEEL



CI-77810

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	49194	Gauge Wheel Adj Clevis	12	88313	1/2NF x 3 GR5 Bolt
2	88141	1NC Jam Nut	13	88304	1/2NF Lock Nut
3	30114	Lower Left Arm Pin	14	16312	Caster Wheel Leg
4	49874	Pin	15	88658	1NC Lock Nut
5	42484	Cylinder Lock Pin	16	49298	Par Link Front Mount
6	49184	Left Gauge Wheel Bar (Shown)	17	88412	3/8NC x 3-1/2 GR5 Bolt
	49185	Right Gauge Wheel Bar	18	14189	Link Arm Stop Collar
7	88312	1NC x 5 GR5 Bolt	19	49202	Lower Par Link
8	88145	5/8NC x 4 x 5-1/4 U-Bolt	20	49204	Upper Par Link
9	88142	1/2NF x 1 Wheel Bolt	21	49186	Gauge Wheel Adj Arm
10	16290	95L x 15 Wheel Assembly	22	88129	5/8 Lock Washer
	10498	Wheel Rim 15 x 8 6 Bolt	23	88126	5/8NC Nut
	16287	95L x 15 Tubeless Tire 8 Ply	24	88503	5/8NC x 3 x 5-1/4 U-Bolt
	30784	Valve Stem Assembly	25	88362	3/8 Lock Washer
11	41233	1-3/4 Hub & Spindle	26	88103	3/8NC Nut

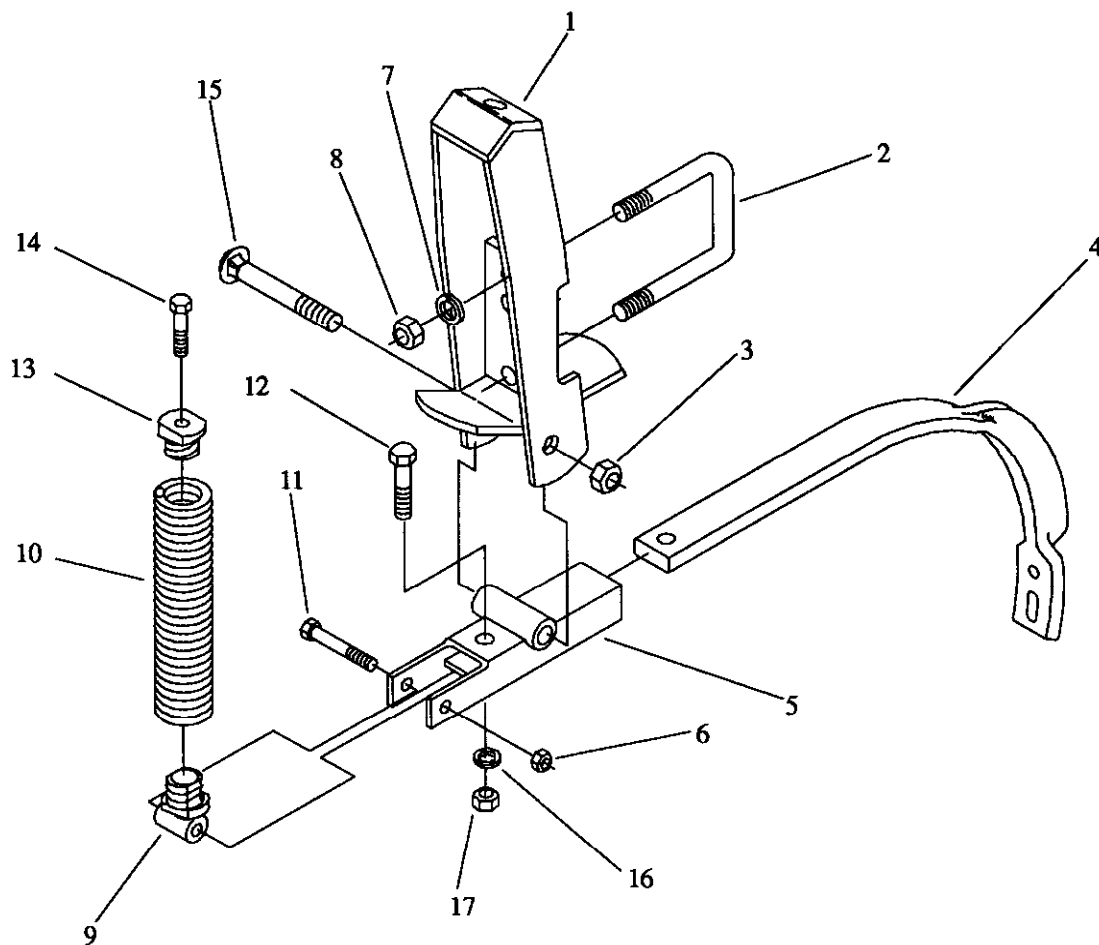
C-SHANK ASSEMBLY



CI-78230

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	53405	Edge Formed FC Shank Assembly (4") (Shown) (Includes Items 1,3-6&9-17)	6	88304	1/2NF Lock Nut
	20570	FC Shank Assembly (4") (Includes Items 1,3-6&9-17)	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
4	53408	Edge Formed FC Shank (Shown)	12	88294	5/8NC x 2 GR5 Bolt
	11511	FC Shank	13	11398	Spring Plug
5	11509	Shank Holder Assembly	14	21966	1/2NC x 2-1/2 Bolt GR2
			15	15579	Shank Carriage Bolt
			16	88129	5/8 Lock Washer
			17	88126	5/8NC Nut

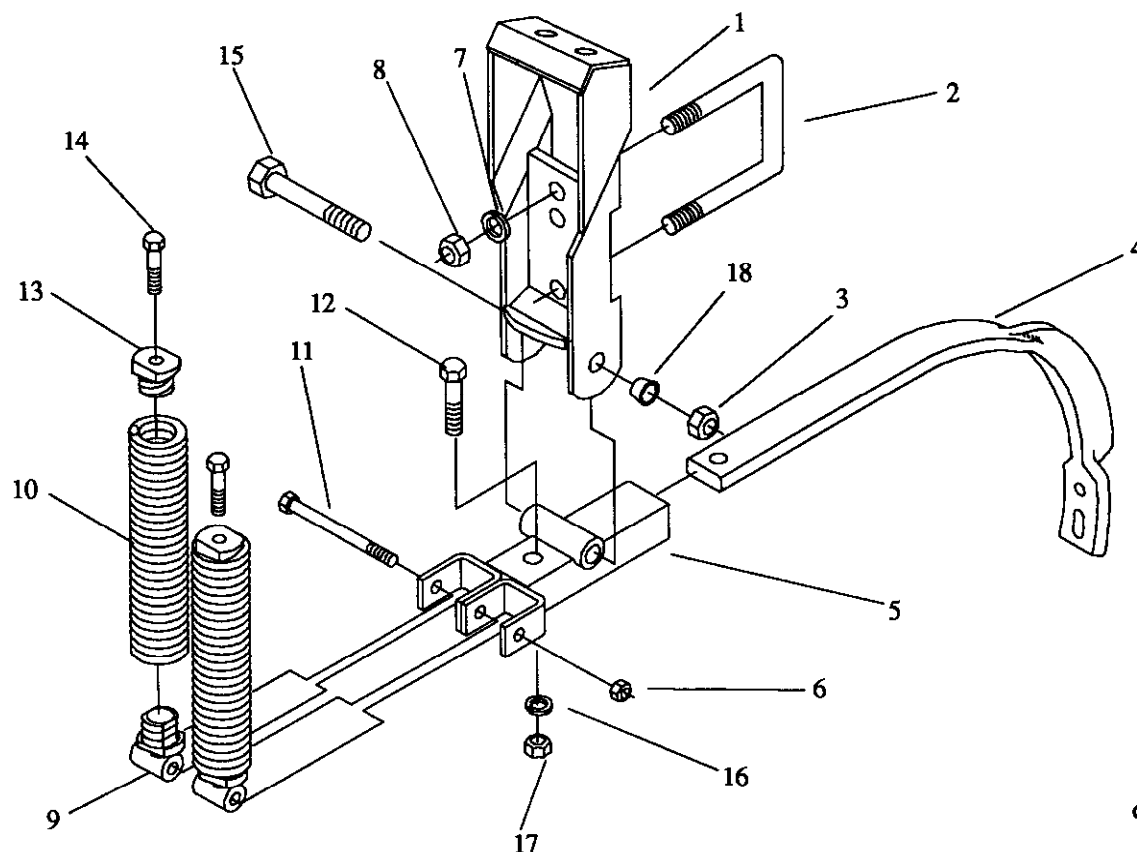
HI-TORQUE SHANK ASSEMBLY



CI-78231

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	53406	Edge Formed Hi-Torque FC Shank Assembly (Shown) (Includes Items 1,3-6&9-17)	5	27050	Shank Holder Assembly
	41892	H-Torque FC Shank Assy (Includes Items 1,3-6&9-17)	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 (Shown)	11	20637	1/2NF x 3 Bolt GR5
	11511	FC Shank	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
			16	88129	5/8 Lock Washer
			17	88126	5/8NC Nut

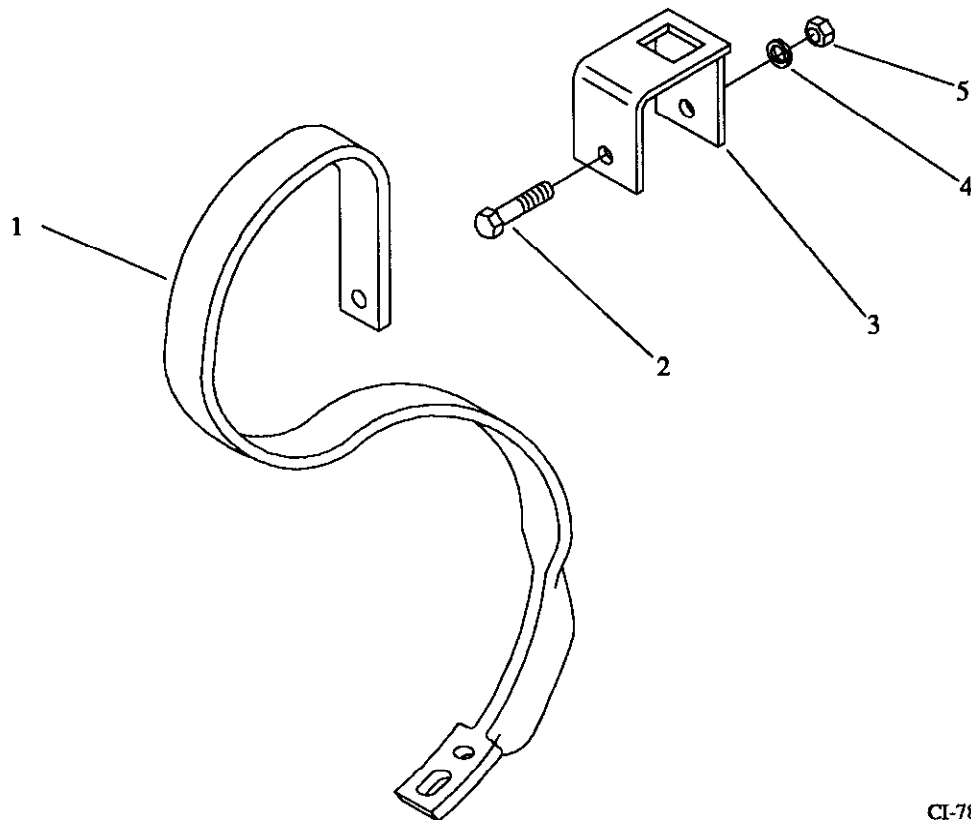
TWIN SPRING SHANK ASSEMBLY



CI-77912

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	55658	Twin Spring Edge FRMD Shank Assy(Includes Items 1,3-6&9-17)	8	88126	5/8NC Nut
	11540	Spring Plug Assembly (Includes Items 9-10 & 13)	9	11397	Spring Handle
1	22047	Twin Spring Bracket	10	11510	Spring
2	88501	5/8NC x 4 x 4-1/4 U-Bolt	11	88574	1/2NC x 5-1/2 Bolt GR5
3	22463	3/4NC Lock Nut	12	88294	5/8NC x 2 GR5 Bolt
4	55655	HD Edge Formed Shank (Shown)	13	11398	Spring Plug
	21535	HD Shank	14	21966	1/2NC x 2-1/2 Bolt GR2
5	22051	Shank Holder	15	22933	3/4NF x 4-1/2 Bolt GR5
6	88363	1/2NC Lock Nut	16	88129	5/8 Lock Washer
7	88129	5/8 Lock Washer	17	88126	5/8NC Nut
			18	41452	Centering Washer

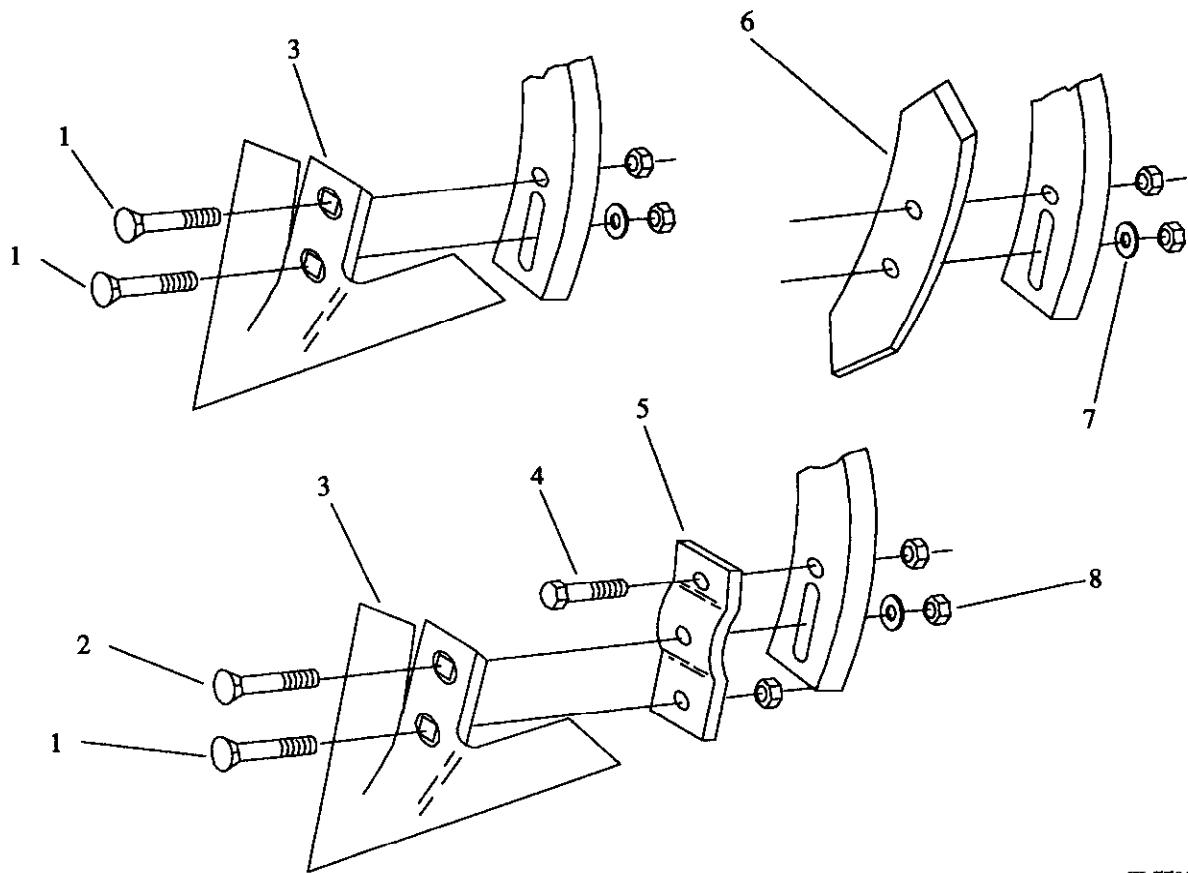
S-SHANK ASSEMBLY



CI-78232

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	53409	Edge Formed S-Shank (Shown)	4	88129	5/8 Lock Washer
	41412	S-Shank	5	88126	5/8NC Nut
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			

SHOVELS & SPIKES

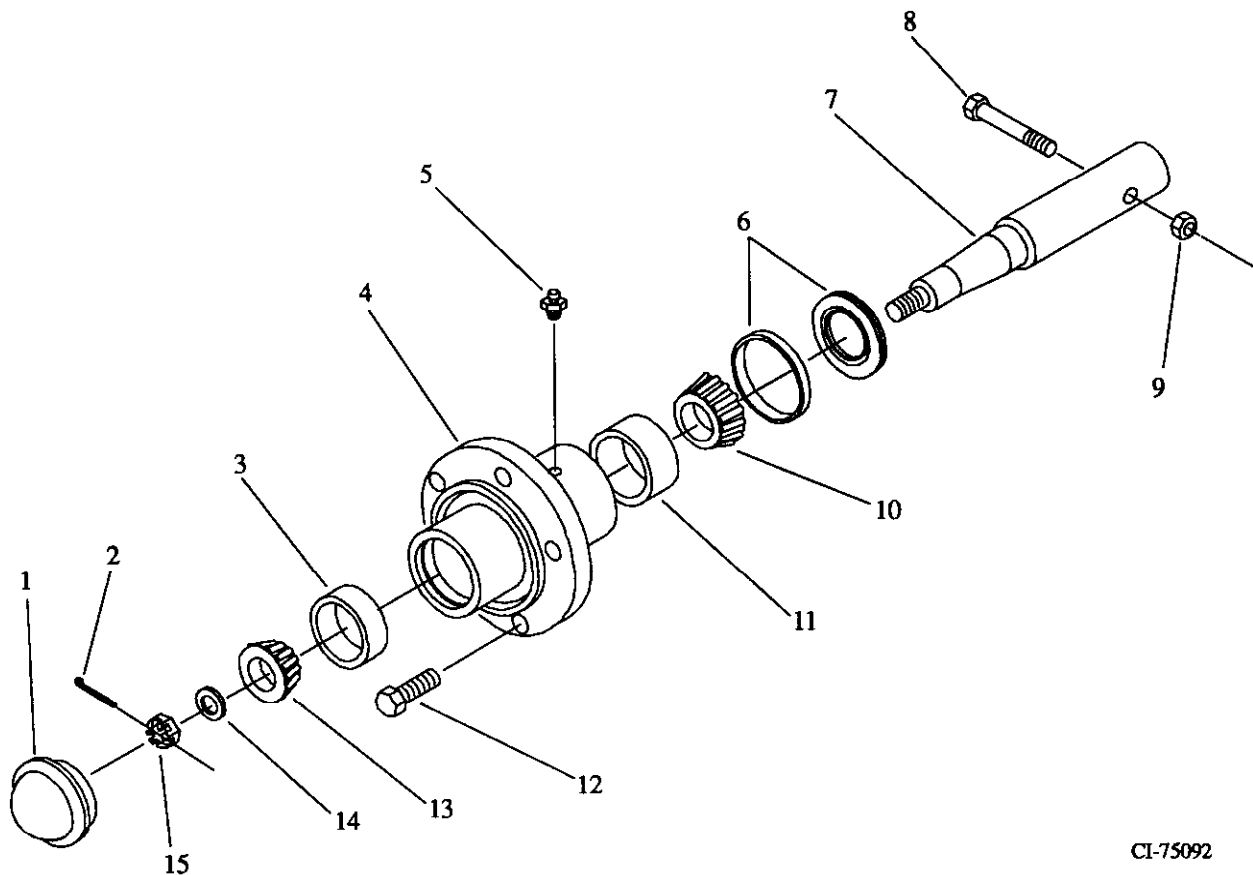


CI-77905

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°) S-Shank
	41639	7" Sweep (41°) S-Shank
	41640	9" Sweep (41°) S-Shank
4	88392	7/16NC x 1-1/2 Bolt
5	41575	FC Shovel Extension
6	11952	2" Reversible Spike
7	88152	7/16 Flat Washer
8	88344	7/16NC Nut

1-3/4" HUB & SPINDLE

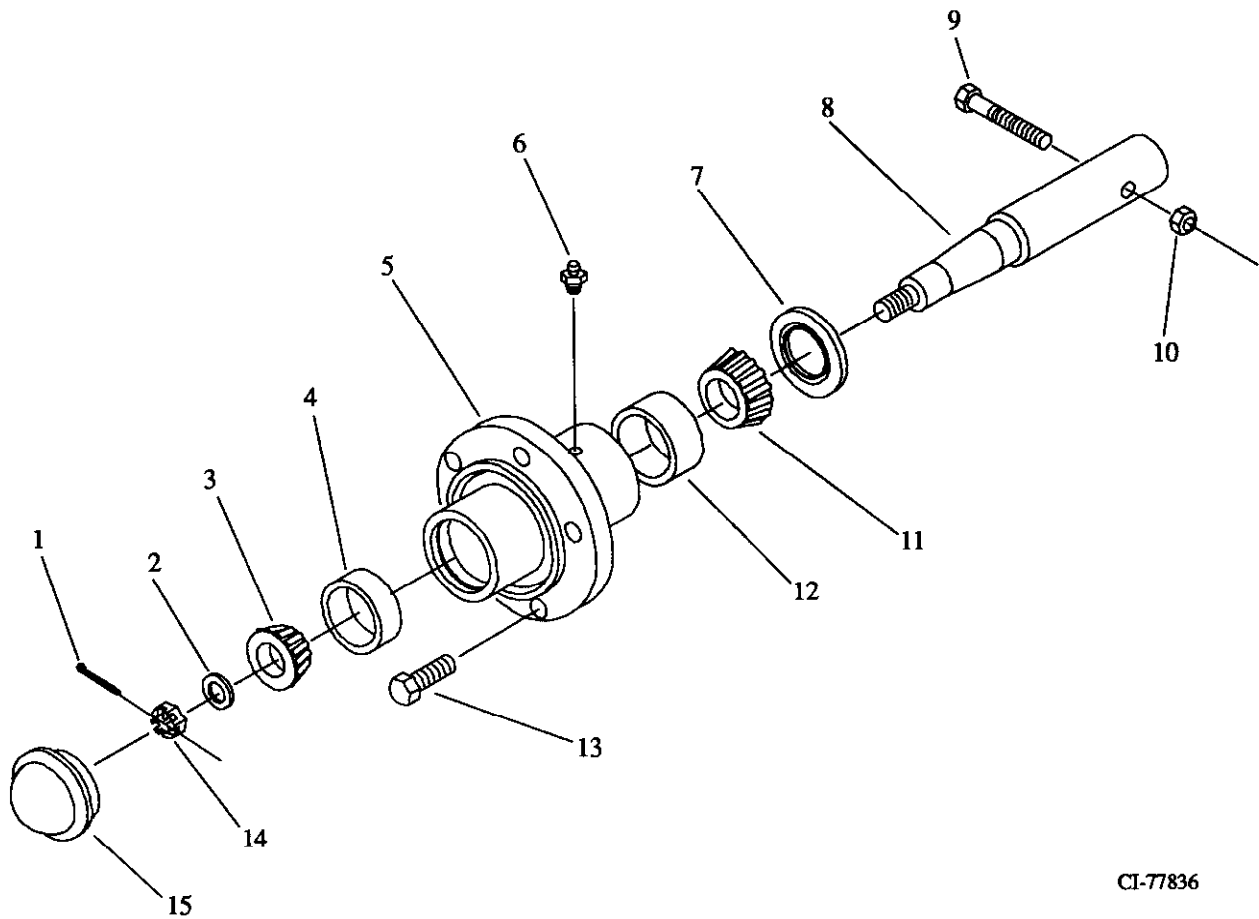


CI-75092

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	7/8ID Spindle Washer
15	88340	7/8NF Slotted Nut

2" HUB & SPINDLE



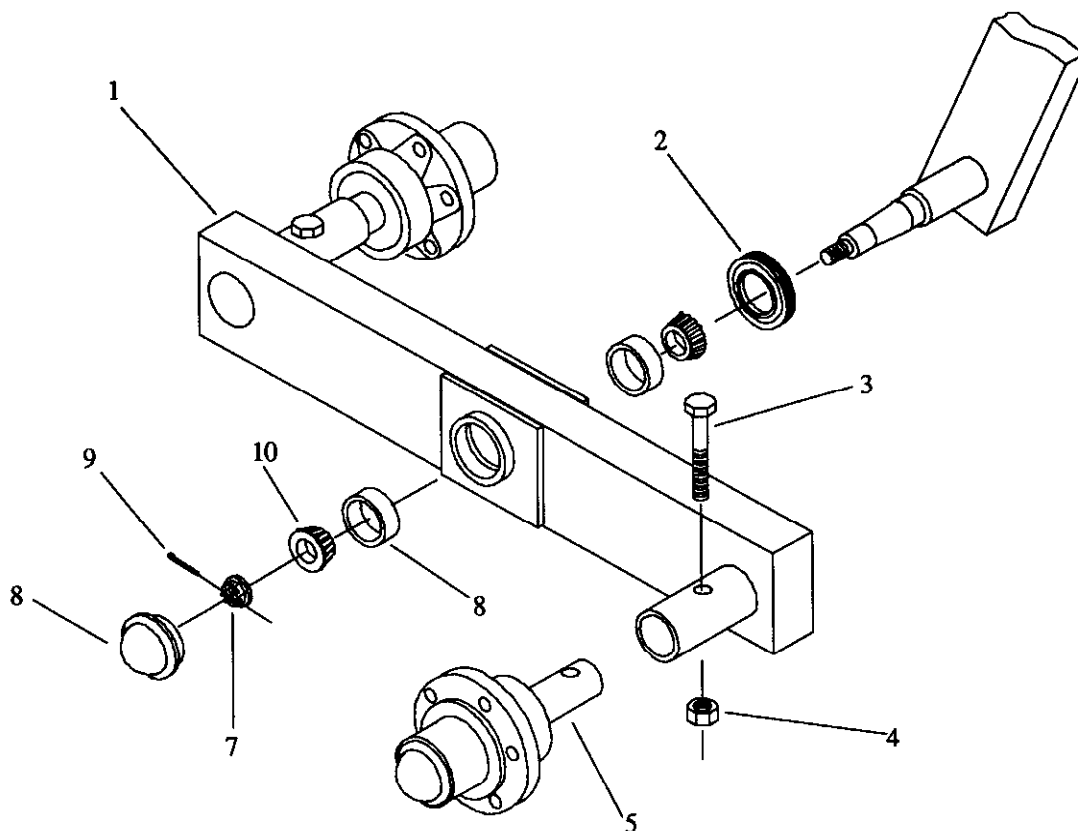
CI-77836

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

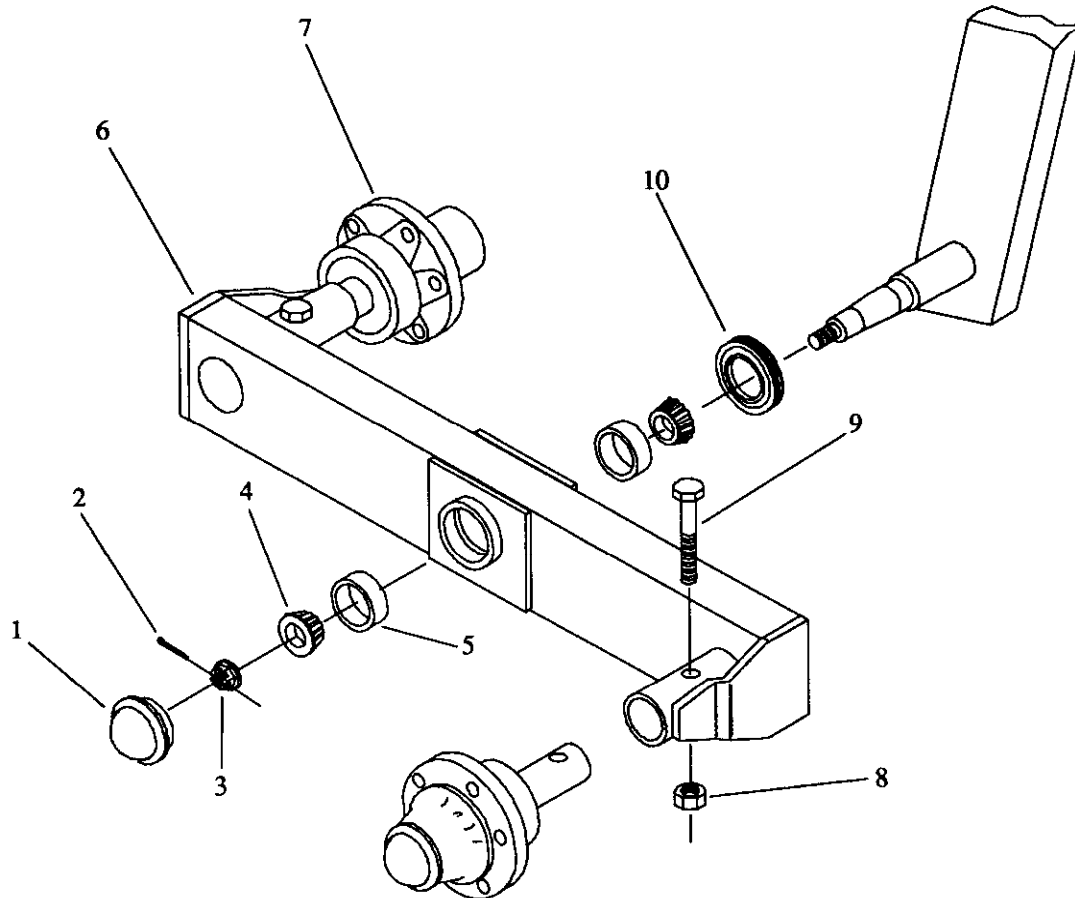


CI-77904

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	48705	1-3/4 x 26 Walking Tandem Assy (Includes Item 8)	4	88304	1/2NF Lock Nut
2	23733	2-1/4ID Seal Kit	5	41233	1-3/4 Hub&Spindle Assembly
	26120	Seal	6	12206	Dust Cap
	76235	Triple Lip Seal Assembly Instruction	7	12712	Walking Tandem Nut Assembly
3	88313	1/2NF x 3 GR5 Bolt	8	12104	Bearing Cup
			9	88133	3/16 x 2 Cotter pin
			10	12103	Bearing Cone

2IN WALKING TANDEM

MAIN AXLE

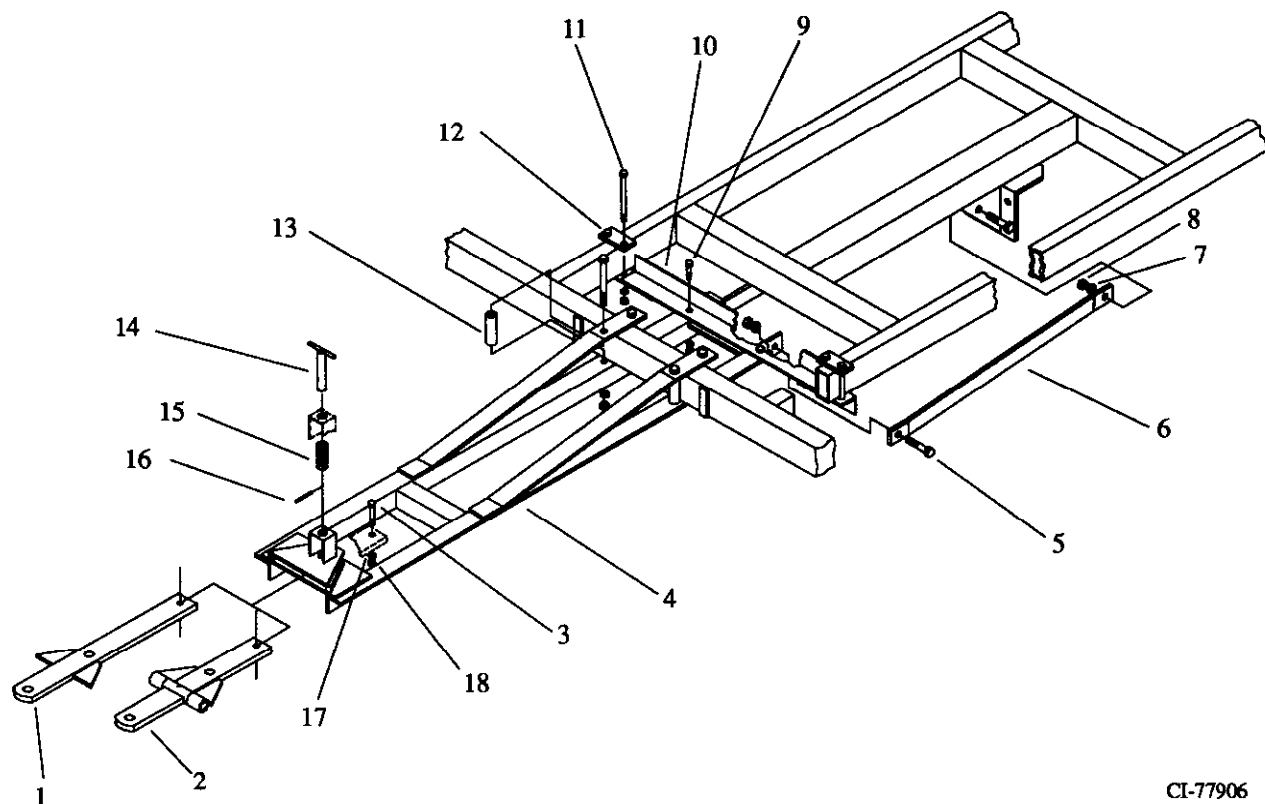


CI-75067

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 Assy 2 x 25.75

ITEM	PART NO.	DESCRIPTION
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

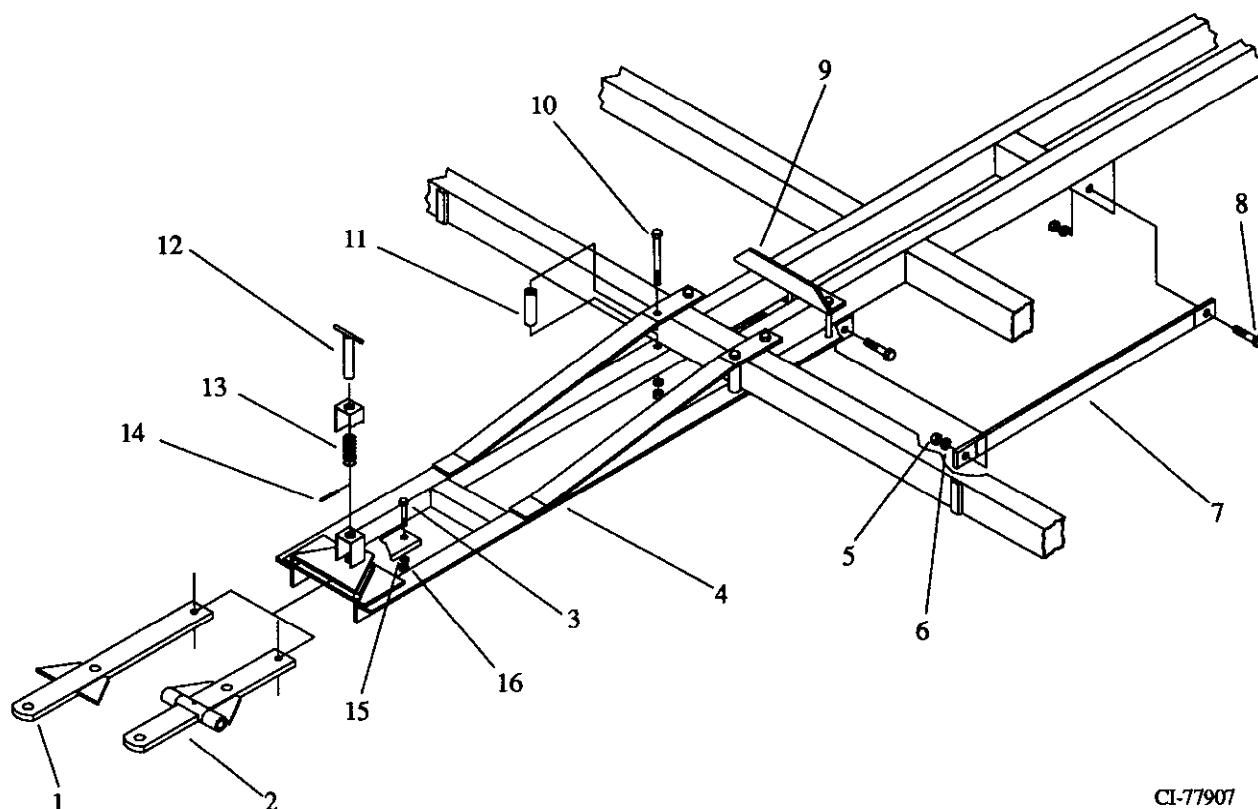
3411 AUXILIARY HITCH



CI-77906

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	48950	3411 Auxiliary Hitch (Solid Tongue)	8	88110	3/4NC Nut
	48951	3411 Auxiliary Hitch (Hinged Tongue)	9	88577	5/8NC x 1-1/2 GR5 Bolt
1	15918	Straight Tongue Assembly	10	48948	Auxiliary Hitch Strap
2	18443	Hinged Tongue Assembly	11	88295	5/8NC x 6 GR5 Bolt
3	88294	5/8NC x 2 GR5 Bolt	12	19534	Backing Plate
4	48943	Auxiliary Hitch Frame Assy	13	21497	Spacer Tube
5	88290	3/4NC x 2 GR8 Bolt	14	15922	Pin Assembly
6	48949	Pole Strap	15	15940	Spring
7	88130	3/4 Lock Washer	16	88101	1/4 x 2-1/2 Cotter Pin
			17	88129	5/8 Lock Washer
			18	88126	5/8NC Nut

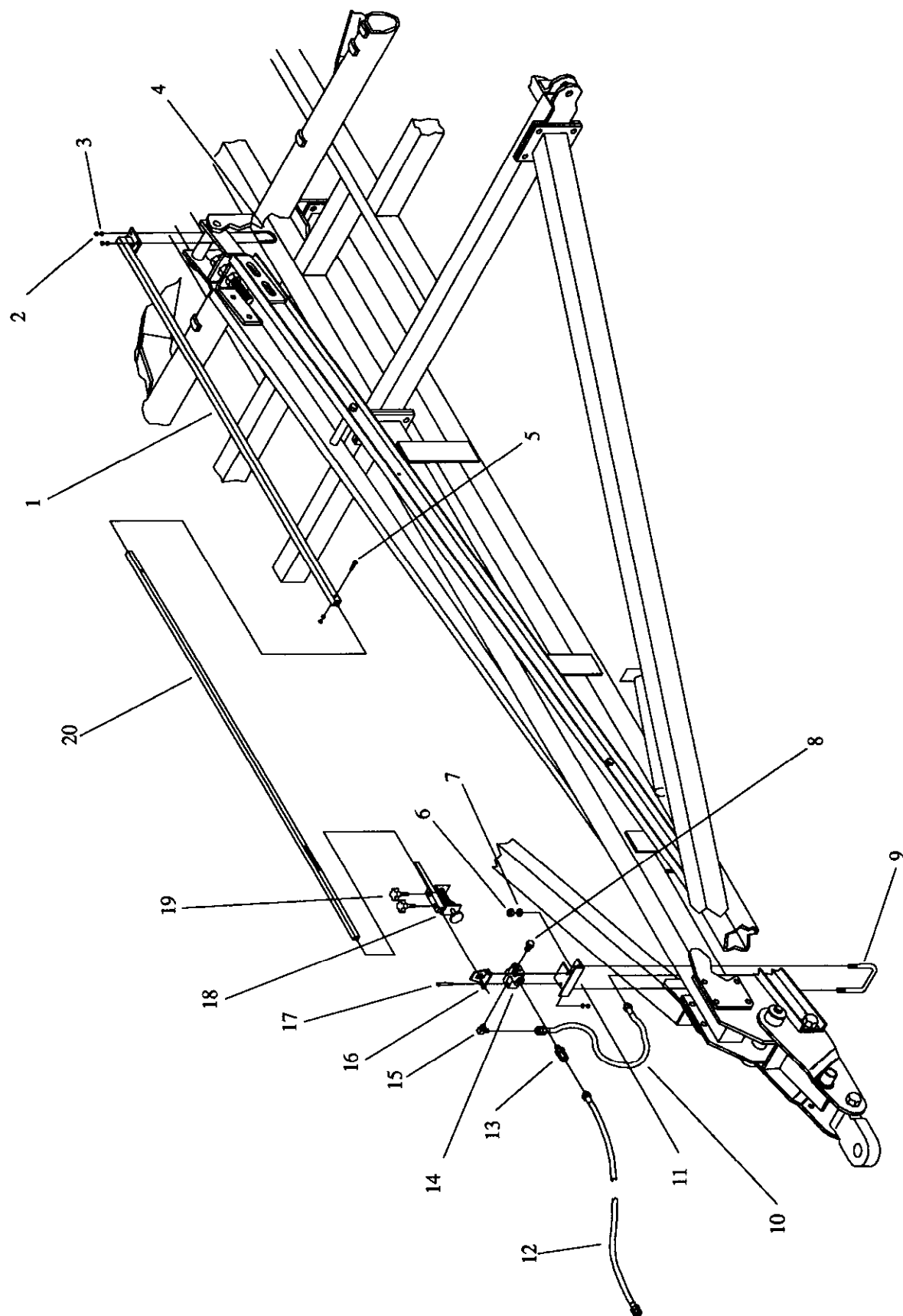
3420 & 3450 AUXILIARY HITCH



CI-77907

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	48952	3420 & 3450 Auxiliary Hitch (Solid Tongue)	7	48949	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
			15	88129	5/8 Lock Washer
			16	88126	5/8NC Nut

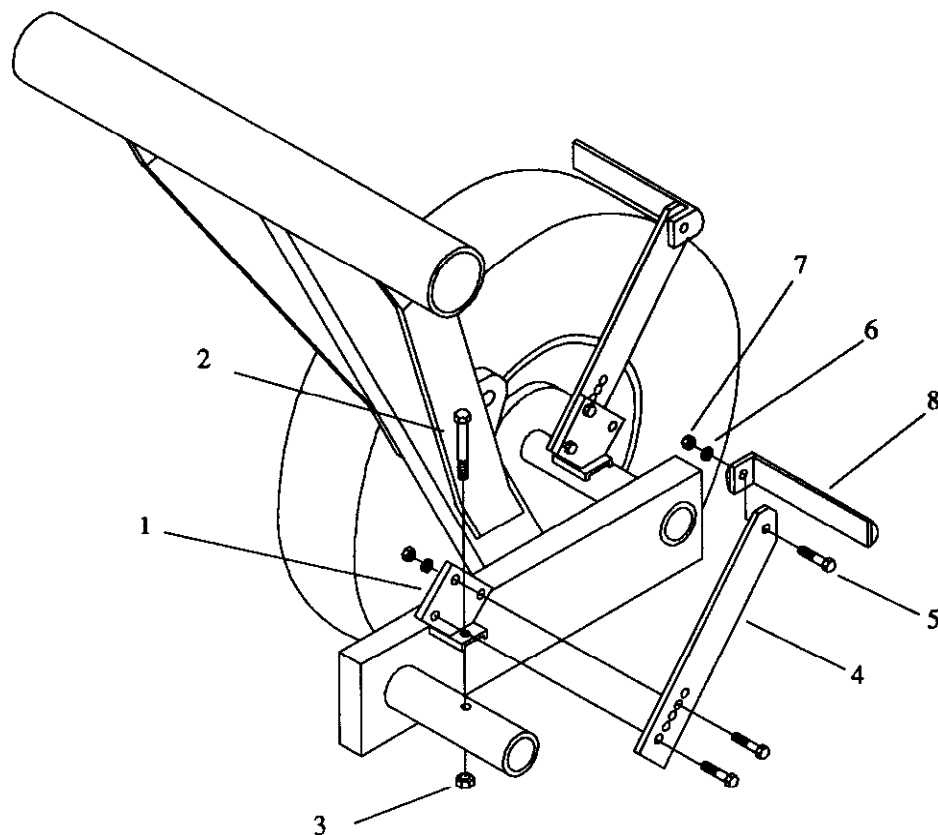
SINGLE POINT DEPTH CONTROL



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	Adapter (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		55836	Depth Valve Plunger Seal Kit
6	88103	3/8NC Nut	15	13236	Elbow
7	88362	3/8 Lock Washer	16	51941	Guide
8	88296	1/2NPT Plug	17	89004	5/16NC x 2-1/2 Bolt
9	88385	3/8NC x4 x 4-3/4 U-Bolt	18	54455	Bracket
10	13260	3/8x 24 Hose (MF)	19	51976	Adjustment Knob
			20	51977	Depth Setting Tube

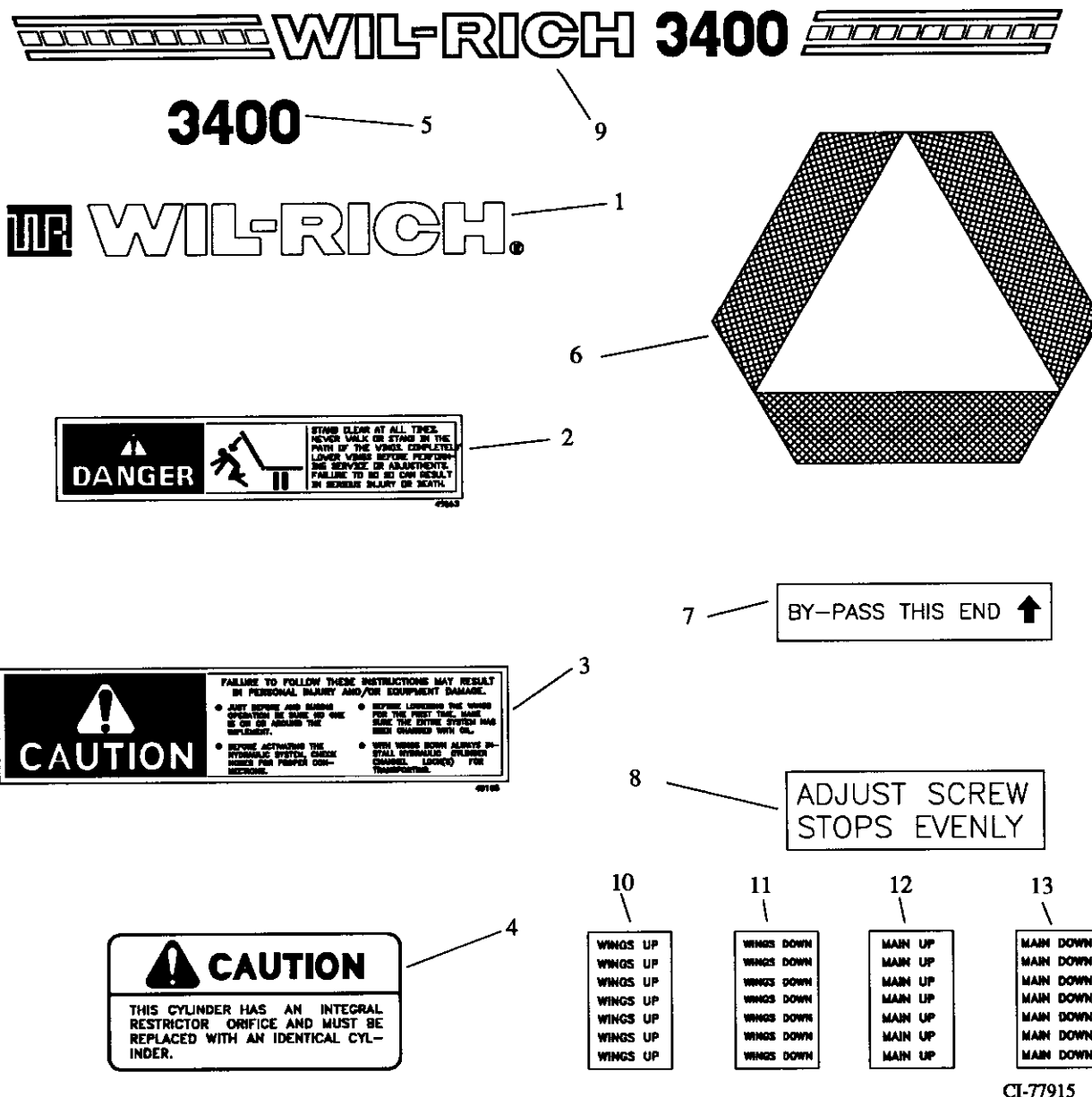
SCRAPERS



CI-77857

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	40924	1-3/4 & 2" Mud Scraper	4	40915	Scraper Bar
1	40921	Mount Assembly	5	88475	1/2NC x 1-1/2 GR5 Bolt
2	88595	1/2NC x 4 GR5 Bolt	6	88303	1/2 Lockwasher
3	88363	1/2NC Lock Nut	7	88104	1/2NC Nut
			8	40916	Scraper Blade

DECALS



ITEM	PART NO.	DESCRIPTION
1		Wil-Rich Decals
	18298	3/4 x 9
	18299	1-1/8 x 13
	18300	1-3/4 x 20
2	49163	Danger Decal
3	49165	Caution Decal
4	20121	Integral Restrictor Decal
5	42697	3400 Die Cut Decal

ITEM	PART NO.	DESCRIPTION
6	41345	SMV Kit
7	20339	Bypass Decal
8	20119	Screw Stop Adjustment Decal
9	54421	3400 Decal Kit
10	54900	Wings Up Decal
11	54901	Wings Down Decal
12	54902	Main Up Decal
13	54903	Main Down Decal

CI-77915

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