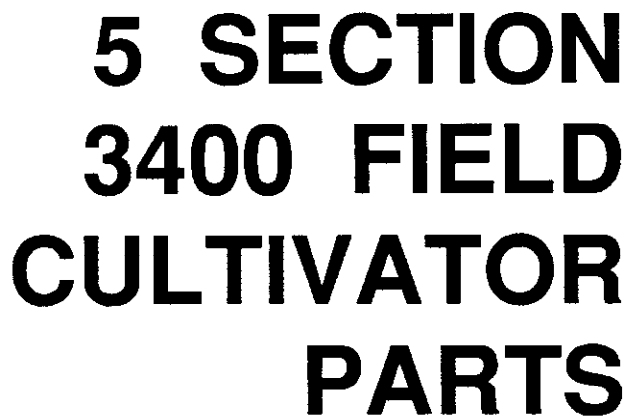


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HUTCHINSON WIL-RICH
MANUFACTURING COMPANY
P.O. BOX 1030 WAHPETON, ND 58074
(701) 642-2621

GENERAL INFORMATION

ORIENTATION

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

PARTS BOOK REVISION

When changes to the machine make it necessary, revised or additional pages for this book will be issued. The revised 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, 36A, ect.). Consecutive suffix letters would be used if more than one page is to be added to one location (23A, 23B, ect.). 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 received. Failure to do so will lead to confusion and defeat the purpose of the book.

SERIAL NUMBER BREAK EXPLANATION

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

ABBREVIATIONS

NC..... National Coarse Thread
NF..... National Fine Thread
OPT..... Optional Equipment
GR..... Grade of Bolt
LP..... Long Pole
SP..... Short Pole
HD..... Heavy Duty

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**5 SECTION
3400 FIELD
CULTIVATOR
PARTS**

WIL-RICH
PO BOX 1030
WAHPETON, ND 58074
PHONE (701) 642-2621
FAX (701) 642-3372

WARRANTY

The only warranty Wil-Rich 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.***

Wil-Rich 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 Wil-Rich.

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 Warranty Validation and Delivery Report form must be filled out and received by Wil-Rich to initiate the warranty coverage.

WARRANTY CLAIMS PROCEDURE

1. The warranty form must be returned to Wil-Rich within fifteen (15) working days from the repair date.
2. Parts returned to Wil-Rich 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 a Wil-Rich Sales Representative, District Sales Manager or Service Representative 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 machine make it necessary, revised or additional pages for this book will be issued. The revised pages will be issued with the same page number with a letter suffix denoting the location of the new page (23A, 36A, etc.). The revised or additional pages will also carry the machine name and the issued 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 received. Failure to do so will lead to confusion and defeat the purpose of this book.

SERIAL NUMBER BREAK

Every implement has a serial number located on 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 practical 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

(F-F)	Female Female
GR	Grade of Bolt
HD	Heavy Duty
LP	Long Pole
(M-F)	Male Female
NC	National Coarse Thread
NF	National Fine Thread
OPT	Optional
SP	Short Pole

CONTENTS

3400 FIELD CULTIVATOR

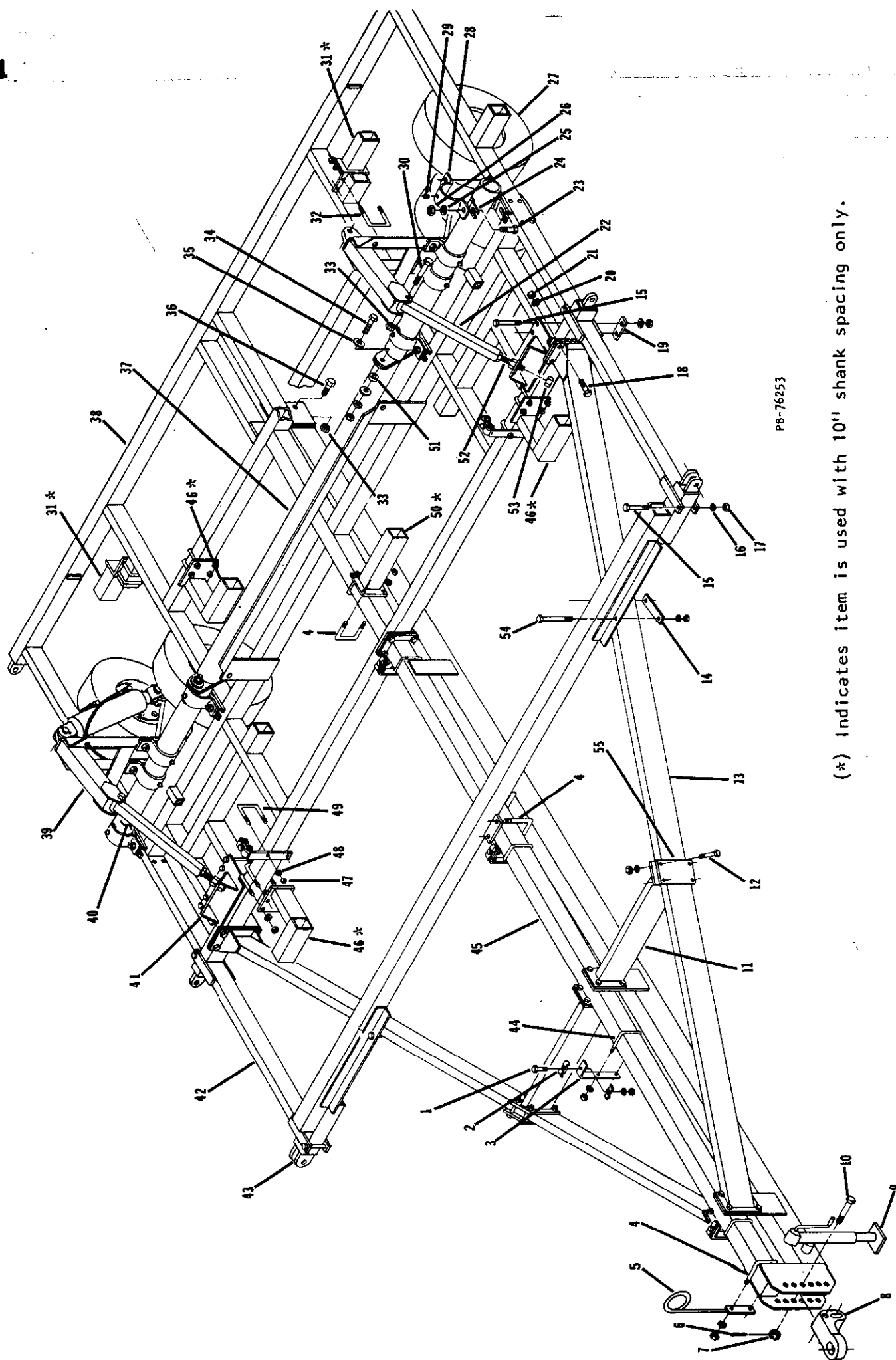
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Rear Jack Stand	40
Decals	41



PB-76253

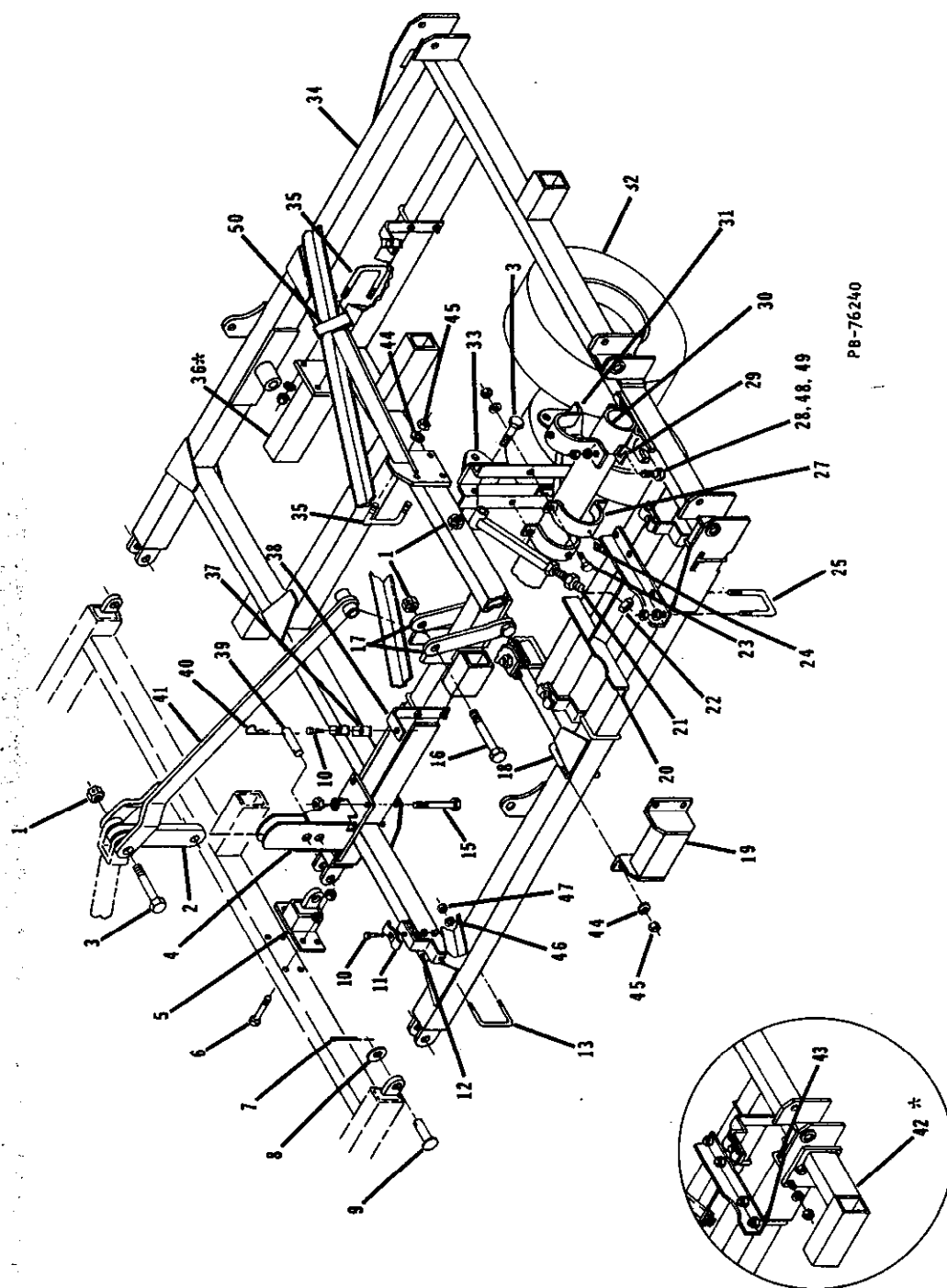
(*) Indicates item is used with 10" shank spacing only.

13 & 17' MAIN FRAMES

13 & 17' MAIN FRAMES

Item	Part #	Description	Qty.
1	88553	Bolt, 3/8 NC x 1-1/2	6
2	13215	Tube Clamp	12
3	13499	Pole Tube Bracket	6
4	88145	U-Bolt, 5/8 x 4 x 5-1/4	3
5	12724	Hose Bracket	1
6	88133	Cotter Pin, 3/16 x 2	2
7	88350	Slotted Nut, 1-1/4 NC	2
8	18236	Dual Cast Hitch	1
9	12796	Pole Jack (Opt)	1
10	11638	Hitch Bolt	2
11	20614	Left Pole Strap	1
	20615	Right Pole Strap	1
12	88298	Bolt, 5/8 NC x 4 GR 5	8
13	20622	17' 3x4 Pole Brace	2
	21045	13' 3x4 Pole Brace	2
	22710	Short Pole Brace 3x4	2
14	20739	Auxiliary Hinge Strap	2
15	88295	Bolt, 5/8 NC x 6 GR 5	12
16	88129	Lock Washer, 5/8	30
17	88126	Nut, 5/8 NC	30
18	88290	Bolt, 3/4 NC x 2 GR 8	28
19	19534	Backing Plate	4
20	88130	Lock Washer, 3/4	32
21	88110	Nut, 3/4 NC	32
22	20725	Main Frame Lift Tube	2
23	88495	Bolt, 7/8 NC x 2-1/2 GR 5	16
24	10176	Spacer	32
25	88341	Lock Washer, 7/8	16
26	88371	Nut, 7/8 NC	16
27	41280	11L x 15 Tire Assembly	4
	41279	Tire, 11L x 15 12PLY	4
	11958	Tube, 9:5L x 15	4
	16378	Rim, 15 x 8, 8Bolt	4
28	10399	Axle Cap	8
29	88263	Grease Fitting, 1/8 NPT	8
30	88312	Bolt, 1 NC x 5 GR 5	2
31	23806	8" Stub Assembly	2
32	88501	U-Bolt, 5/8 x 4 x 4-1/8	10
33	88348	Lock Nut, 1 NC	4

Item	Part #	Description	Qty.
34	88404	Bolt, 3/4 NC x 2-1/2 GR 5	4
35	88131	Flat Washer, 3/4	8
36	88393	Bolt, 1 NC x 2-1/2 GR 5	2
37	21055	Center Axle Assy (13')	1
	20631	Center Axle Assy (17')	1
38	20908	13' 3400 Main Frame	1
	20829	17' 3400 Main Frame	1
39	20747	Main Frame Axle Mast	2
40	20757	Left Main Axle Assy	1
	20758	Right Main Axle Assy (See Walking Tandem Assy, Page 37)	1
41	20728	Main Frame Anchor Rest	2
42	20652	Auxiliary Hinge Brace	2
43	21044	13' Auxiliary Hinge	1
	20733	17' Auxiliary Hinge	1
44	88385	U-Bolt, 3/8 x 4 x 4-3/4	4
45	20703	3400 Main Pole	1
	22708	3400 Main Pole (Short)	1
46	23807	Shank Bracket (17')	3
	23807	Shank Bracket (13')	2
47	88103	Nut, 3/8 NC	18
48	88362	Lock Washer, 3/8	18
49	88514	U-Bolt, 3/8 x 4 x 3-3/4	2
50	21131	15" Stub Assembly (13')	1
51	12376	Wing Linkage Bushing	4
52	19893	Adjustment Rod	2
53	88125	Nut, 1 NC	2
54	88476	Bolt, 5/8 NC x 8 GR 5	4
55	20998	Pole Brace Plate	2



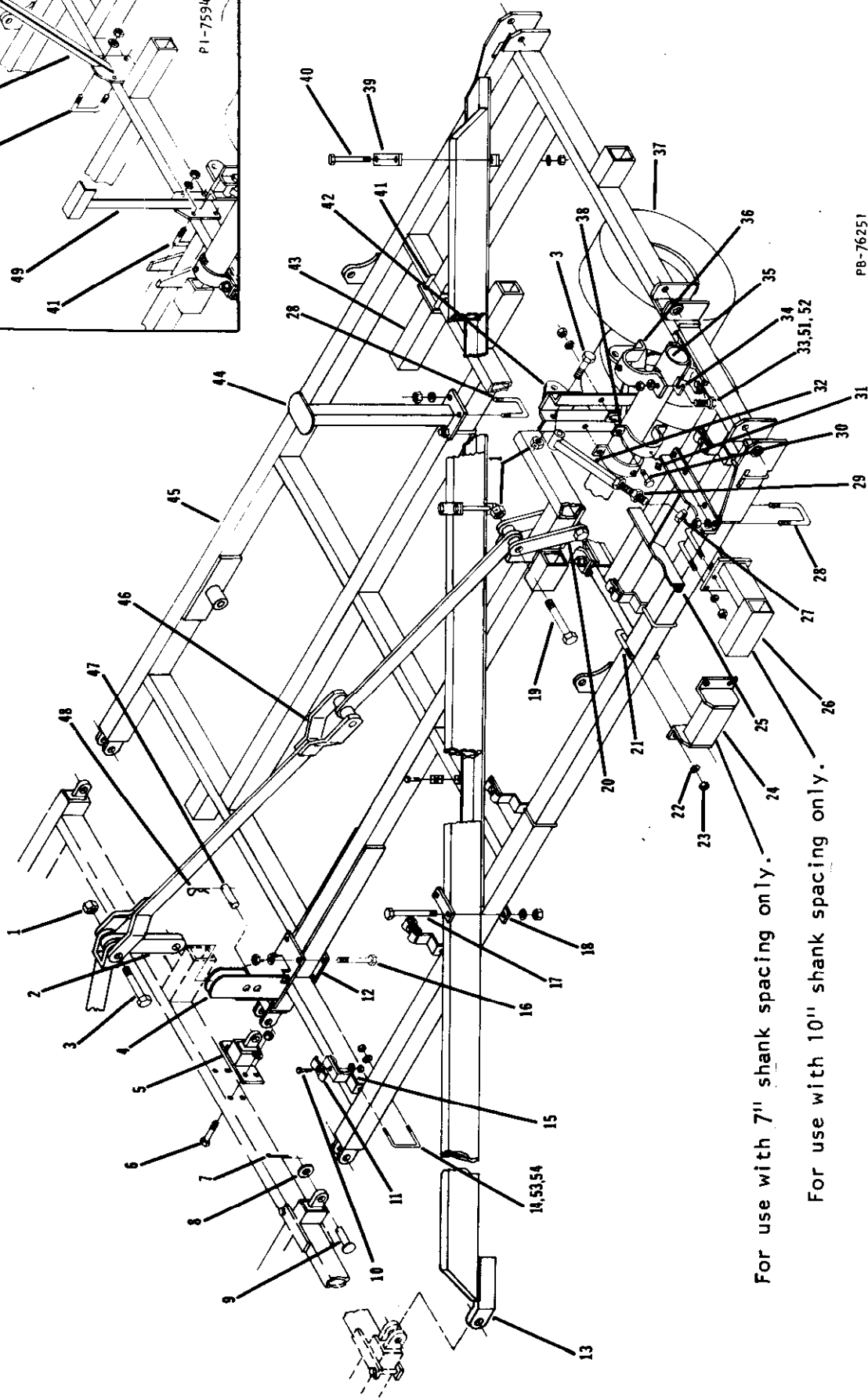
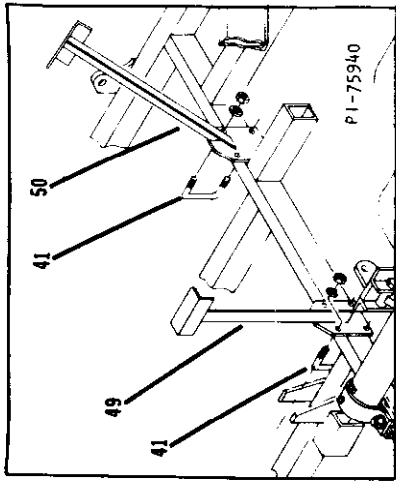
(*) Indicates item is used with 10" shank spacing only.

8' INNER WING

8' INNER WING

Item	Part #	Description	Qty.
1	88348	Lock Nut, 1 NC	8
2	20692	Upper Lift Link	2
3	88312	Bolt, 1 NC x 5 GR 5	4
4	20837	Left Wing Lift	1
	20838	Right Wing Lift	1
5	20635	Wing Hinge Assembly	2
6	88292	Bolt, 5/8 NC x 3-1/2 GR 5	8
7	88101	Cotter Pin, 1/4 x 2-1/2	6
8	88196	Flat Washer, 1"	6
9	12217	Hinge Pin Assembly	6
10	88553	Bolt, 3/8 NC x 1-1/2	10
11	13215	Tube Clamp	14
12	20740	Offset Hydraulic Tube Bracket	6
13	88514	U-Bolt, 3/8 x 4 x 3-3/4	10
14			
15	88295	Bolt, 5/8 NC x 6 GR 5	12
16	88264	Bolt, 1 NC x 6 GR 5	4
17	20743	Lower Lift Link	4
18	88501	U-Bolt, 5/8 x 4 x 4-1/8	8
19	21027	Shank Extension	2
20	20840	Wing Anchor Rest	2
21	19893	Adjustment Rod	2
22	88125	Nut, 1 NC	2
23	88290	Bolt, 3/4 NC x 2 GR 8	8
24	88263	Grease Fitting, 1/8 NPT	8
25	88503	U-Bolt, 5/8 x 3 x 5-1/4	8
26	20709	Wing Lift Tube	2
27	19650	2" Axle Cap	4
28	88495	Bolt, 7/8 NC x 2-1/2 GR 5	8

Item	Part #	Description	Qty.
29	10176	Spacer	32
30	20759	Left Wing Axle	1
	20760	Right Wing Axle (See Walking Tandem Assy, Page 31)	1
31	10399	Axle Cap	4
32	13142	9:5L x 15 Tire Assembly	4
	11950	Tire, 9:5L x 15 6PLY	4
	11956	Tube, 7:60/9:5L x 15	4
	10236	Rim, 15 x 6, 6Bolt	4
33	20870	Wing Axle Mast	2
34	22741	8' Inner Wing (Right)	1
	22742	8' Inner Wing (Left)	1
35	88501	U-Bolt, 5/8 x 4 x 4-1/4	8
36	21131	15" Stub Assembly	2
37	15543	Base Plate	4
38	13270	Pole Tube Bracket	4
39	42472	Cylinder Pin	2
40	88352	Spring Lock Pin	4
41	22705	8' Wing Lift Strap	2
42	23807	Shank Bracket	2
43	88145	U-Bolt, 5/8 x 4 x 5-1/4	4
44	88129	Lock Washer, 5/8	16
45	88126	Nut, 5/8 NC	16
46	88362	Lock Washer, 3/8	30
47	88103	Nut, 3/8 NC	30
48	88341	Lock Washer, 7/8	8
49	88371	Nut, 7/8 NC	8
50	22716	5ft Wing Stop	2



For use with 7" shank spacing only.

For use with 10" shank spacing only.

P8-76251

13-1/2', 11-1/2' & 10' INNER WINGS

13-1/2', 11-1/2' & 10' INNER WINGS

6

Item	Part #	Description	Qty.
1	88348	Lock Nut, 1 NC	8
2	20692	Upper Lift Link	2
3	88312	Bolt, 1 NC x 5 GR 5	4
4	20837	Left Wing Lift	1
	20838	Right Wing Lift	1
5	20635	Wing Hinge Assembly	2
6	88292	Bolt, 5/8 NC x 3-1/2 GR 5	8
7	88101	Cotter Pin, 1/4 x 2-1/2	8
8	88196	Flat Washer, 1"	8
9	12217	Hinge Pin Assembly	8
10	88553	Bolt, 3/8 NC x 1-1/2	14
11	13215	Tube Clamp	18
12	20763	Wing Lift Backing Plate	2
13	20698	Left Wing Truss(13-1/2')	1
	20697	Right Wing Truss(13-1/2')	1
	21043	Left Wing Truss(11-1/2')	1
	21042	Right Wing Truss(11-1/2')	1
	21101	Left Wing Truss(10')	1
	21100	Right Wing Truss(10')	1
14	88514	U-Bolt, 3/8 x 4 x 3-3/4	10
15	20740	Offset Hydraulic Tube Bracket	10
16	88295	Bolt, 5/8 NC x 6 GR 5	12
17	88516	Bolt, 5/8 NC x 13 GR 5	4
18	15667	Truss Strap	4
19	88264	Bolt, 1 NC x 6 GR 5	4
20	20743	Lower Lift Link	4
21	88501	U-Bolt, 5/8 x 4 x 4-1/8	*
22	88129	Lock Washer, 5/8	*
23	88126	Nut, 5/8 NC	*
24	21027	Shank Extension	2
25	20840	Wing Anchor Rest	2
26	23807	Shank Bracket	2
27	88125	Nut, 1 NC	2
28	88503	U-Bolt, 5/8 x 3 x 5-1/4	*
29	19893	Adjustment Rod	2
30	88290	Bolt, 3/4 NC x 2 GR 8	8
31	88263	Grease Fitting, 1/8 NPT	8
32	20709	Wing Lift Tube	2
33	88495	Bolt, 7/8 NC x 2-1/2 GR 5	8

Item	Part #	Description	Qty.
34	10176	Spacer	32
35	20759	Left Wing Axle	1
	20760	Right Wing Axle (See Walking Tandem Assy, Page 31)	1
36	10399	Axle Cap	4
37	13142	9:5L x 15 Tire Assembly	4
	11950	Tire, 9:5L x 15 6PLY	4
	11956	Tube, 7:60/9:5L x 15	4
	10236	Rim, 15 x 6, 6Bolt	4
38	19650	2" Axle Cap	4
39	19243	Strap	8
40	88557	Bolt, 5/8 NC x 9 GR 5	8
41	88388	U-Bolt, 5/8 x 4 x 3-1/4	4
42	20870	Inner Wing Axle Mast	2
43	21131	15" Stub Assembly	2
44	20663	10-1/2' Wing Stop(Inside)	2
45	20866	Right Inner Wing(13-1/2')	1
	20867	Left Inner Wing(13-1/2')	1
	20906	Right Inner Wing(11-1/2')	1
	20907	Left Inner Wing(11-1/2')	1
	20909	Right Inner Wing(10')	1
	20910	Left Inner Wing(10')	1
46	26486	Wing Lift Strap(13-1/2')	2
	26490	Wing Lift Strap(11-1/2')	2
	21071	Wing Lift Strap(10')	2
47	42472	Cylinder Pin	2
48	88352	Spring Lock Pin	2
49	21040	9' Wing Stop (Inside)	2
50	21069	7' Wing Stop	2
51	88341	Lock Washer, 7/8	8
52	88371	Nut, 7/8 NC	8
53	88362	Lock Washer, 3/8	34
54	88103	Nut, 3/8 NC	34

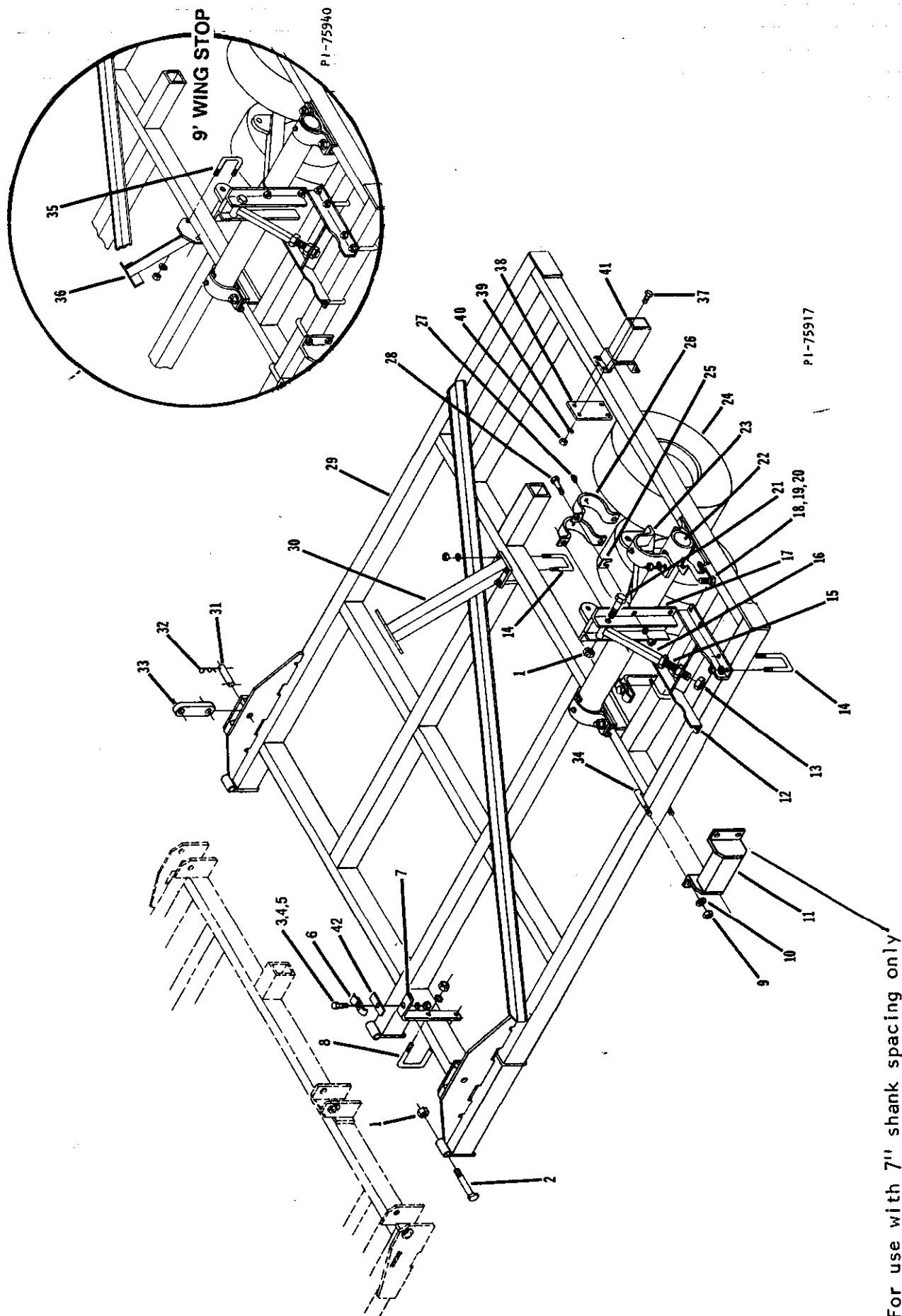
(*) Varies with size of wing.

5' OUTER WING

8

Item	Part #	Description	Qty.
1	88348	Locknut, 1 NC	6
2	88264	Bolt, 1 NC x 6 GR 5	6
3	88553	Bolt, 3/8 NC x 1-1/2	4
4	13215	Tube Clamp	4
5	13499	Pole Tube Bracket	4
6	88514	U-Bolt, 3/8 x 4 x 3-3/4	4
7	20840	Wing Anchor Rest	2
8	19893	Adjustment Rod	2
9	88125	Nut, 1 NC	2
10	88503	U-Bolt, 5/8 x 3 x 5-1/4	8
11	20709	Wing Lift Tube	2
12	88495	Bolt, 7/8 NC x 2-1/2 GR 5	8
13	20880	Outer Wing Axle Mast	2
14	10176	Spacer	32
15	10399	Axle Cap	4
16	22712	Single Wing Axle (Right)	1
	22713	Single Wing Axle (Left)	1
17	13142	9:5L x 15 Tire Assembly	2
	11950	Tire, 9:5L x 15 6PLY	2
	11956	Tube, 7:60/9:5L x 15	2
	10236	Rim, 15 x 6, 6Bolt	2
—	11605	1-3/4" Hub & Spindle	2

Item	Part #	Description	Qty.
18	88312	Bolt, 1 NC x 5 GR 5	2
19	19650	2" Axle Cap	4
20	88263	Grease Fitting, 1/8 NPT	8
21	88341	Lock Washer, 7/8	8
22	88290	Bolt, 3/4 NC x 2 GR 8	8
23	88371	Nut, 7/8 NC	8
24	22721	5' Outer Wing (Right)	1
	22722	5' Outer Wing (Left)	1
25	11930	Cylinder Pin	4
26	88352	Spring Lock Pin	8
27	20691	Wing Lift Link	4
28	88362	Lock Washer, 3/8	4
29	88103	Nut, 3/8 NC	4
30	88129	Lock Washer, 5/8	16
31	88126	Nut, 5/8 NC	16



10-1/2', 9' & 7' OUTER WINGS

10-1/2', 9' & 7' OUTER WINGS

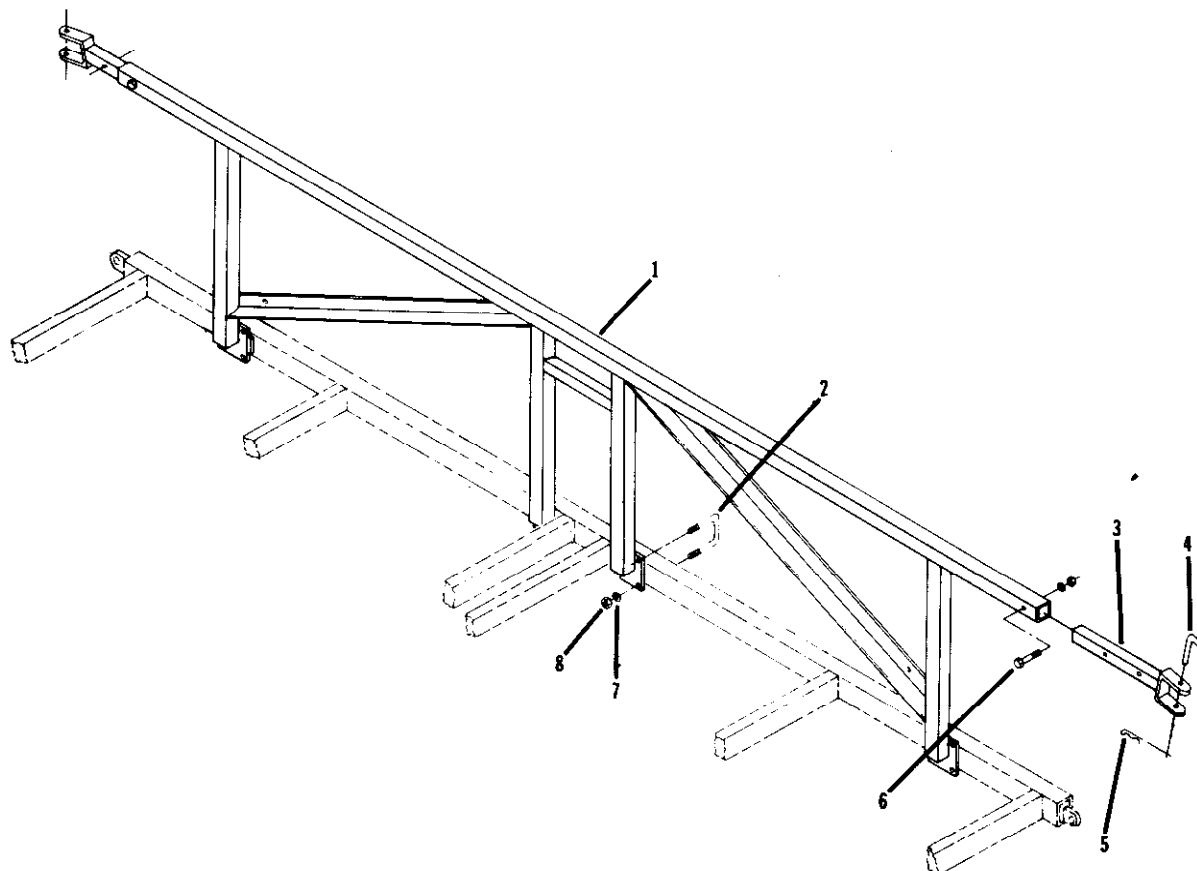
Item	Part #	Description	Qty.
1	88348	Lock Nut, 1 NC	8
2	88264	Bolt, 1 NC x 6 GR 5	6
3	88553	Bolt, 3/8 NC x 1-1/2	6
4	88362	Lock Washer, 3/8	18
5	88103	Nut, 3/8 NC	18
6	13215	Tube Clamp	6
7	13499	Pole Tube Bracket	6
8	88514	U-Bolt, 3/8 NC x 4 x 3-3/4	6
9	88126	Nut, 5/8 NC	*
10	88129	Lock Washer, 5/8	*
11	21027	Shank Extension	2
12	20840	Wing Anchor Rest	2
13	88125	Nut, 1 NC	2
14	88503	U-Bolt, 5/8 NC x 3 x 5-1/4	*
15	19893	Adjustment Rod	2
16	20709	Wing Lift Tube	2
17	20880	Outer Wing Axle Mast	2
18	88495	Bolt, 7/8 NC x 2-1/2 GR 5	8
19	88341	Lock Washer, 7/8 NC	8
20	88371	Nut, 7/8 NC	8
21	88312	Bolt, 1 NC x 5 GR 5	2
22	20759	Left Wing Axle	1
	20760	Right Wing Axle	1
		See Walking Tandem Page 21.	
23	10399	Axle Cap	4

Item	Part #	Description	Qty.
24	13142	9:5L x 15 Tire Assembly	4
	11950	Tire, 9:5L x 15 6 PLY	4
	11956	Tube, 7:60/9:5L x 15	4
	10236	Rim, 15 x 6, 6 Bolt	4
25	10176	Spacer	32
26	19650	2IN Axle Cap	4
27	88263	Grease Fitting, 1/8 NPT	8
28	88290	Bolt, 3/4 NC x 2 GR 8	8
29	41251	10-1/2' Outer Wing (R)	1
	41252	10-1/2' Outer Wing (L)	1
	41253	9' Outer Wing (R)	1
	41254	9' Outer Wing (L)	1
	41255	7' Outer Wing (R)	1
	41256	7' Outer Wing (L)	1
30	20665	10-1/2' Wing Stop (Outside)	2
31	42472	Cylinder Pin	4
32	88352	Spring Lock Pin	8
33	20691	Wing Lift Link	4
34	88501	U-Bolt, 5/8 NC x 4 x 4-1/4	*
35	88501	U-Bolt, 5/8 NC x 4 x 4-1/4	*
36	21041	9' Wing Stop (Outside)	2
37	88475	Bolt, 1/2 NC x 1-1/2 GR5	8
38	26817	Backing Plate	2
39	88303	Lock Washer, 1/2	8
40	88104	Nut, 1/2 NC	8
41	26815	8IN Saddle Stub	2

(*) Varies with size of wing.

15 IN. STUB (3 X 4)

Item	Part No.	Description	Qty.



PI-75942

WING LOCKS

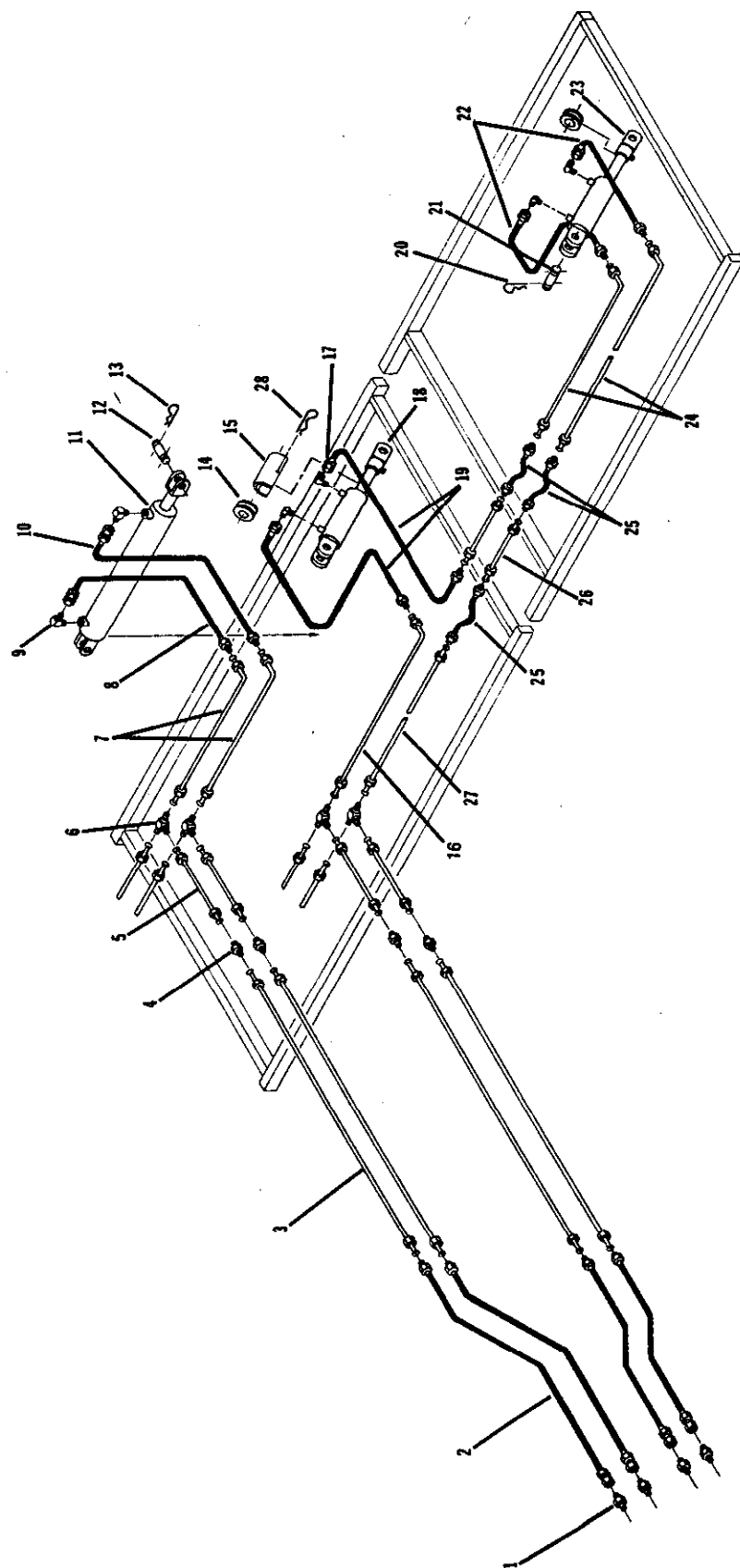
Item	Part No.	Description	Qty.
1	20975	13 FCW 3400 Wing Lock	1
	20774	17 FCW 3400 Wing Lock	1
2	88501	U-Bolt, 5/8 NC x 4 x 4-1/8	6
3	20985	Wing Lock Extension	2

Item	Part No.	Description	Qty.
4	11984	Wing Lock Pin	2
5	88137	Spring Lock Pin	2
6	88292	Bolt, 5/8 NC x 3-1/2 GR5	2
7	88129	Lock Washer, 5/8	14
8	88126	Nut, 5/8 NC	14

3400 FIELD CULTIVATOR



SINGLE WING HYDRAULICS

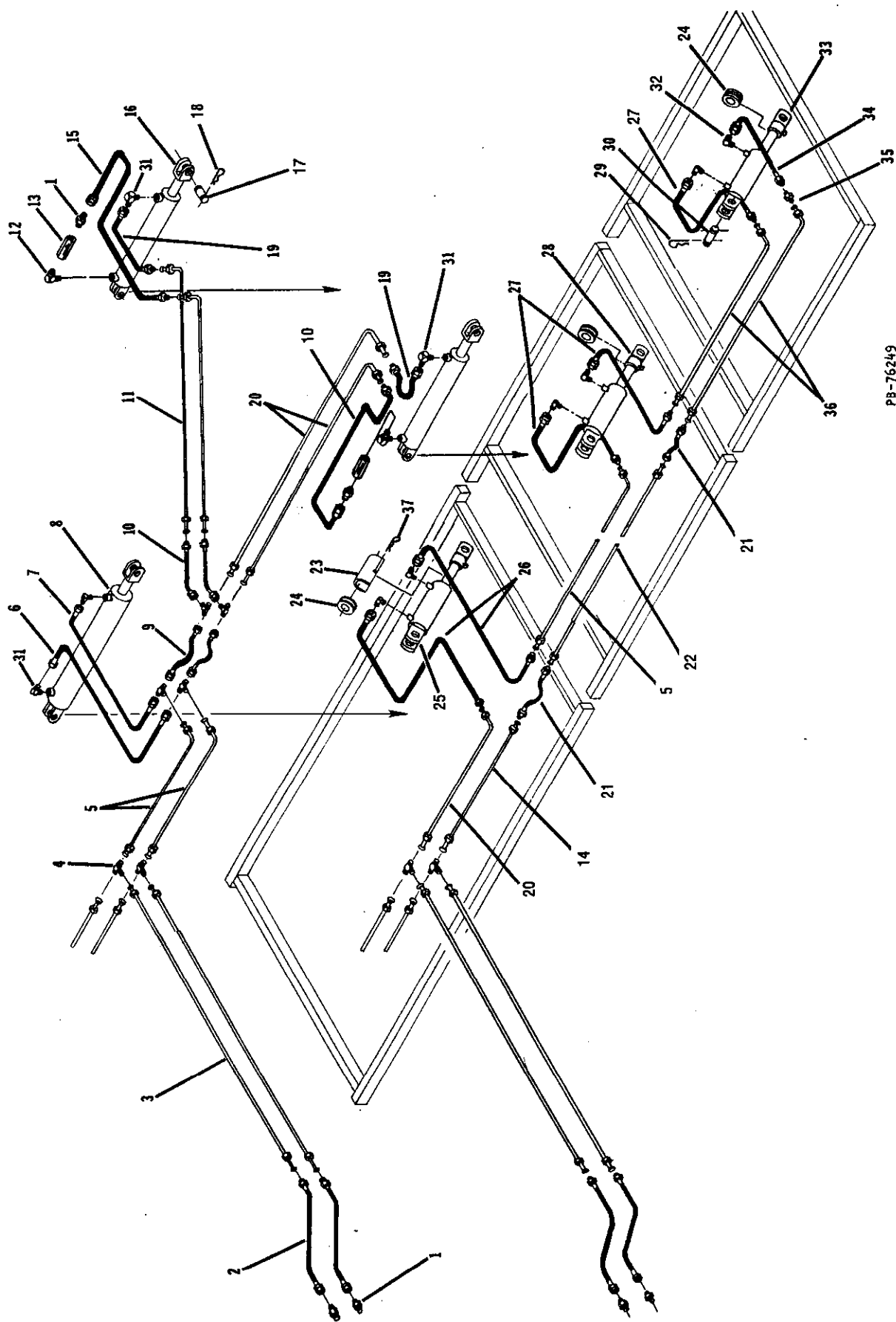


P8-76237

SINGLE WING HYDRAULICS

Item	Part #	Description	Qty.
1	13234	Coupler Adapter	4
2	13267	Hose, 3/8 x 72 (M-F)	4
3	13253	Tube, 1/2 x 120	4
4	13239	Hose Union	4
5	20465	Tube, 1/2 x 48	4
6	13238	3/8 Tube Tee	4
7	21084	Tube, 3/8 x 82+2	4
8	13266	Hose, 1/2 x 60 (M-F)	2
9	13235	3/8 NPT Elbow	12
10	13263	Hose, 3/8 x 36 (M-F)	2
11	20966	5 x 30 Standard	2
12	11930	Cylinder Pin	4
13	88352	Spring Lock Pin	8
14	15113	1-1/2" Stop Collar	4
15	19145	1-1/2" Channel Lock	2
16	21022	Tube, 1/2 x 70+2	2

Item	Part #	Description	Qty.
17	13236	1/2 NPT Elbow	8
18	42581	4 x 10.8 Top Bypass	2
19	13269	Hose, 3/8 x 84 (M-F)	4
20	88137	Spring Lock Pin	14
21	18068	Cylinder Pin	8
22	13264	Hose, 3/8 x 48 (M-F)	4
23	42580	4 x 9.3 Top Bypass	2
24	20464	Tube, 1/2 x 48+2	4
25	15995	Hose, 3/8 x 24 (M-M)	6
26	13287	Tube, 1/2 x 38	4
27	15699	Tube, 1/2 x 86	2
28	42721	Spring Lock Pin	2



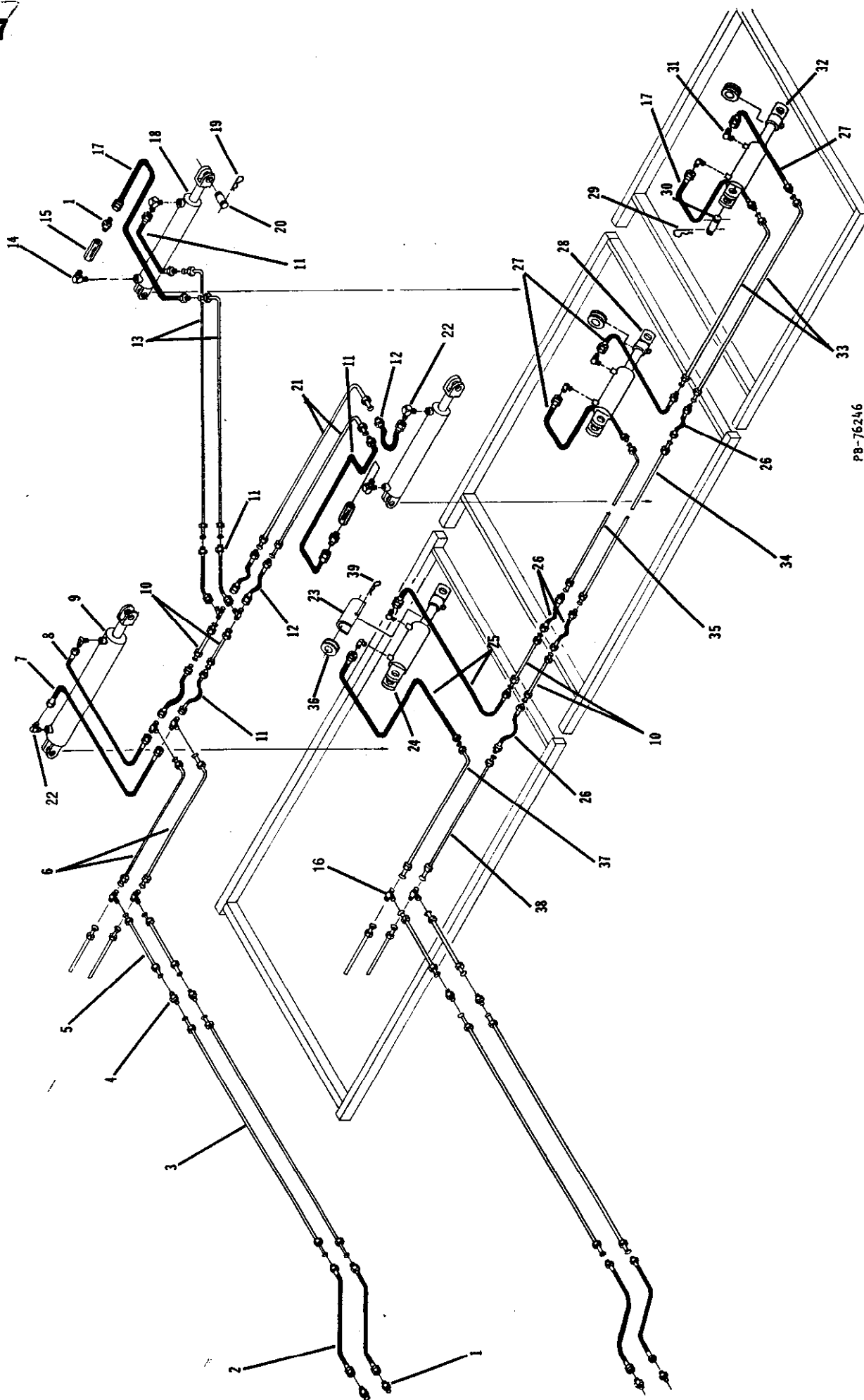
PB-76249

40'-41' DUAL WING HYDRAULICS

40'-41' DUAL WING HYDRAULICS

Item	Part #	Description	Qty.
1	13234	Coupler Adapter	8
2	13267	Hose, 3/8 x 72 (M-F)	4
3	13253	Tube, 1/2 x 120	4
4	13238	3/8 Tube Tee	12
5	13258	Tube, 1/2 x 60+2	6
6	13265	Hose, 3/8 x 56 (F-F)	2
7	14644	Hose, 3/8 x 36 (F-F)	2
8	20966	5 x 30 Standard	2
9	13423	Hose, 3/8 x 24 (F-F)	4
10	13259	Hose, 3/8 x 18 (M-F)	6
11	21020	Tube, 1/2 x 78+2	4
12	22811	3/8 - 1/2 NPT Elbow	4
13	22810	1/16 Flow Restrictor	4
14	15811	Tube, 1/2 x 65	2
15	13263	Hose, 3/8 x 36 (M-F)	2
16	51242	3 x 30 Standard	4
17	11930	Cylinder Pin	12
18	88352	Spring Lock Pin	12
19	13260	Hose, 3/8 x 24 (M-F)	4
20	20464	Tube, 1/2 x 48+2	6
21	15995	Hose, 3/8 x 24 (M-M)	4
22	15699	Tube, 1/2 x 86	2
23	19145	1-1/2" Channel Lock	2

Item	Part #	Description	Qty.
24	15113	1-1/2" Stop Collar	6
25	42581	4 x 10.8 Top Bypass	2
26	13269	Hose, 3/8 x 84 (M-F)	4
27	13264	Hose, 3/8 x 48 (M-F)	6
28	42580	4 x 9.3 Top Bypass	2
29	88137	Spring Lock Pin	24
30	18068	Cylinder Pin	12
31	13235	3/8 NPT Elbow	8
32	13236	1/2 NPT Elbow	12
33	42579	4 x 8 Top Bypass	2
34	14851	Hose, 3/8 x 42 (F-F)	2
35	13239	Hose Union	2
36	21021	Tube, 1/2 x 36+2	4
37	42721	Spring Lock Pin	2



P8-76246

DUAL WING HYDRAULICS (ALL MODELS EXCEPT 40'-41')

DUAL WING HYDRAULICS (ALL MODELS EXCEPT 40-41')

Item	Part #	Description	Qty.
1	13234	Coupler Adapter	8
2	13267	Hose, 3/8 x 72 (M-F)	4
3	13253	Tube, 1/2 x 120	4
4	13239	Hose Union (Long Pole Only)	4
5	20465	Tube, 1/2 x 48 (Long Pole Only)	4
*6	21084	Tube, 1/2 x 82+2 (17')	4
	13258	Tube, 1/2 x 60+2 (13')	4
7	13265	Hose, 3/8 x 56 (F-F)	2
8	14644	Hose, 3/8 x 36 (F-F)	2
9	20966	5 x 30 Standard	2
*10	21082	Tube, 1/2 x 44 (13-1/2')	8
	13287	Tube, 1/2 x 38 (11-1/2')	8
	21108	Tube, 1/2 x 26 (10')	8
11	13260	Hose, 3/8 x 24 (M-F)	12
12	13259	Hose, 3/8 x 18 (M-F)	6
13	13286	Tube, 1/2 x 94+2 (13-1/2')	4
	13286	Tube, 1/2 x 94+2 (11-1/2')	4
	21020	Tube, 1/2 x 78+2 (10')	4
14	22811	3/8NPT - 1/2 NPT Elbow	4
15	22810	1/16 Flow Restrictor	4
16	13238	3/8 Tube Tee	12
17	13263	Hose, 3/8 x 36 (M-F)	4
18	51229	4 x 30 Standard	4
19	88352	Spring Lock Pin	24
20	11930	Cylinder Pin	12
21	13258	Tube, 1/2 x 60+2 (13-1/2')	4
	20464	Tube, 1/2 x 48+2 (11-1/2')	4
	21021	Tube, 1/2 x 36+2 (10')	4

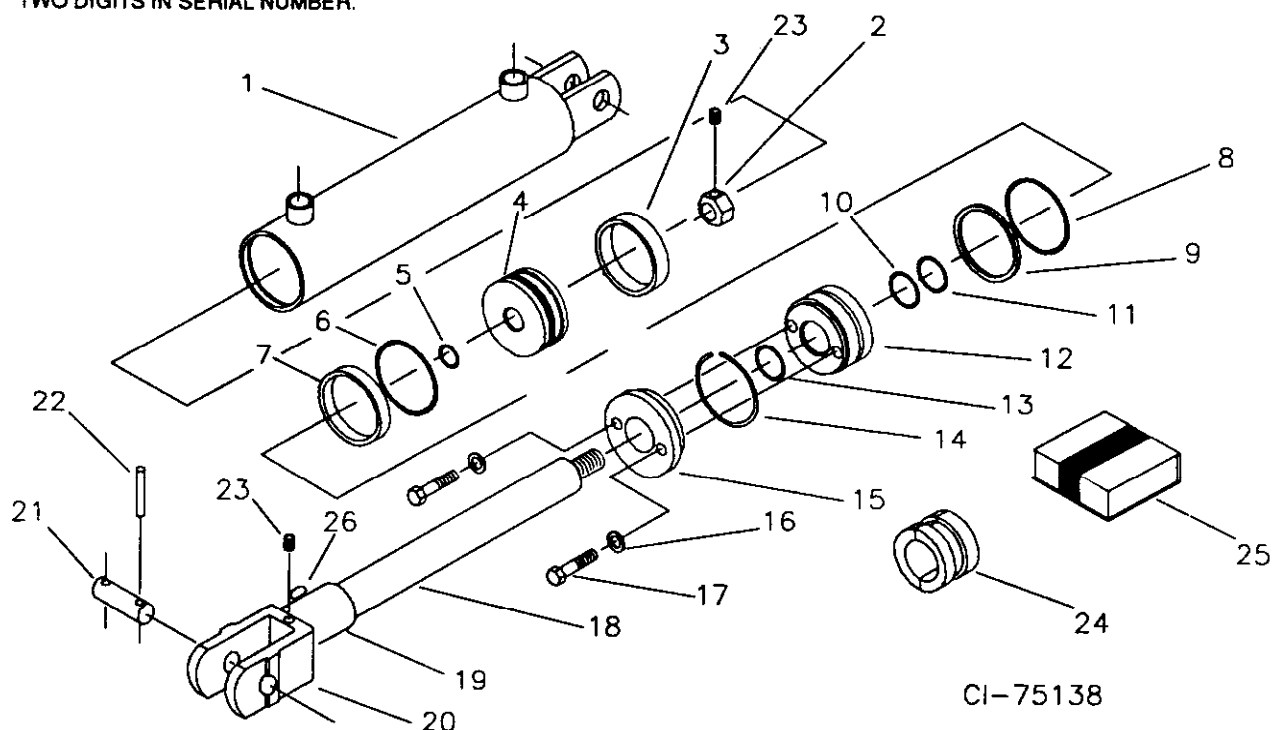
Item	Part #	Description	Qty.
22	13235	3/8 NPT Elbow	8
23	19145	1-1/2" Channel Lock	2
24	42581	4 x 10.8 Top Bypass	2
25	13269	Hose, 3/8 x 84 (M-F)	4
26	15995	Hose, 3/8 x 24 (M-M)	8
27	13264	Hose, 3/8 x 48 (M-F)	6
28	42580	4 x 9.3 Top Bypass	2
29	88137	Spring Lock Pin	24
30	18068	Cylinder Pin	12
31	13236	1/2 NPT Elbow	12
32	42579	4 x 8 Top Bypass	2
33	13286	Tube, 1/2 x 94+2 (10-1/2')	4
	21020	Tube, 1/2 x 78+2 (9')	4
	20464	Tube, 1/2 x 48+2 (7')	4
34	13254	Tube, 1/2 x 80 (13-1/2')	2
	21037	Tube, 1/2 x 72 (11-1/2')	2
	15811	Tube, 1/2 x 65 (10')	2
35	21020	Tube, 1/2 x 78+2 (13-1/2')	2
	20464	Tube, 1/2 x 48+2 (11-1/2')	2
	21021	Tube, 1/2 x 36+2 (10')	2
36	15113	1-1/2" Stop Collar	6
37	21022	Tube, 1/2 x 70+2 (17')	2
	20464	Tube, 1/2 x 48+2 (13')	2
38	15699	Tube, 1/2 x 86 (17')	2
	15811	Tube, 1/2 x 65 (13')	2
39	42721	Spring Lock Pin	2

(*) The number in parenthesis "()" indicates the size, in feet, of the main frame or wing that requires this tube.

4 X 8 TOP BY-PASS CYLINDER

SERIES PB

NOTE: SERIES REFERS TO FIRST TWO DIGITS IN SERIAL NUMBER.



ITEM PART NO. DESCRIPTION

	14523	TBP CYLINDER 4 X 8
1	14525	CYLINDER TUBE ASSY
2	14824	PISTON LOCK NUT
3	14534	4IN WEAR RING
4	14527	TOP BY-PASS PISTON
5	12290	SHAFT SEAL
6	21097	4IN O-RING
7	21096	4IN GLIDE RING
8	12291	4IN PISTON SEAL
9	12289	4IN BACK-UP WASHER
10	14903	BACK-UP WASHER 1-1/2IN
11	14902	O-RING 1-1/2IN
12	12283	CYLINDER GLAND 4IN
13	12288	ROD WIPER

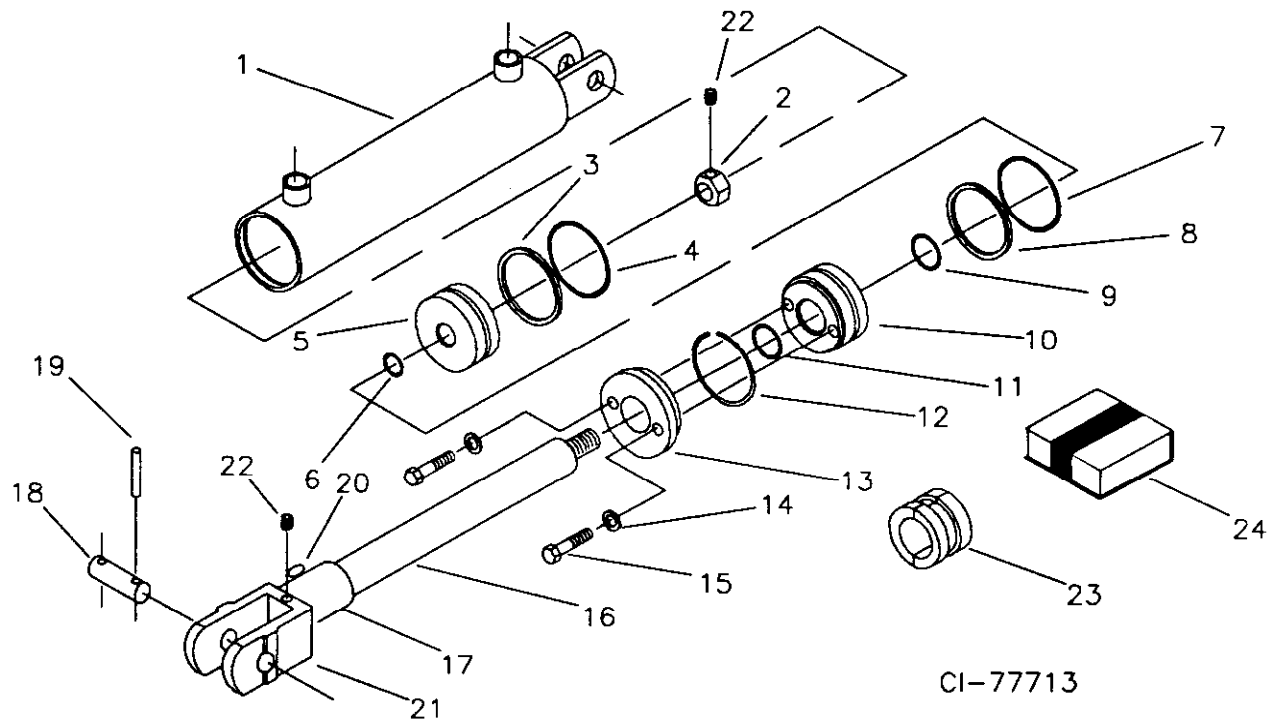
ITEM PART NO. DESCRIPTION

14	12286	SNAP RING 4IN
15	13851	STOP PLATE
16	88362	LOCK WASHER 3/8
17	88553	BOLT 3/8NC X 1-1/2 GR5
18	13569	CYLINDER ROD
19	13570	SCREW STOP COLLAR
20	14822	ADJUSTABLE END YOKE
21	42473	CYLINDER PIN 1 X 3-1/8
22	42484	SPRING LOCK PIN 1/4 X 4-3/4
23	88706	SET SCREW 5/16NC X 5/16
24	15113	ADD-ON STOP COLLAR 1-1/2IN
25	14906	SEAL KIT
26	88387	THUMBSCREW 3/8NC X 1/2
	42505	CYLINDER PIN PACKAGE (H) CONTAINS 42484 & 42473

4 X 8 TOP BY-PASS CYLINDER

SERIES PX

NOTE: SERIES REFERS TO THE FIRST TWO DIGITS OF SERIAL NUMBER.



ITEM PART NO. DESCRIPTION

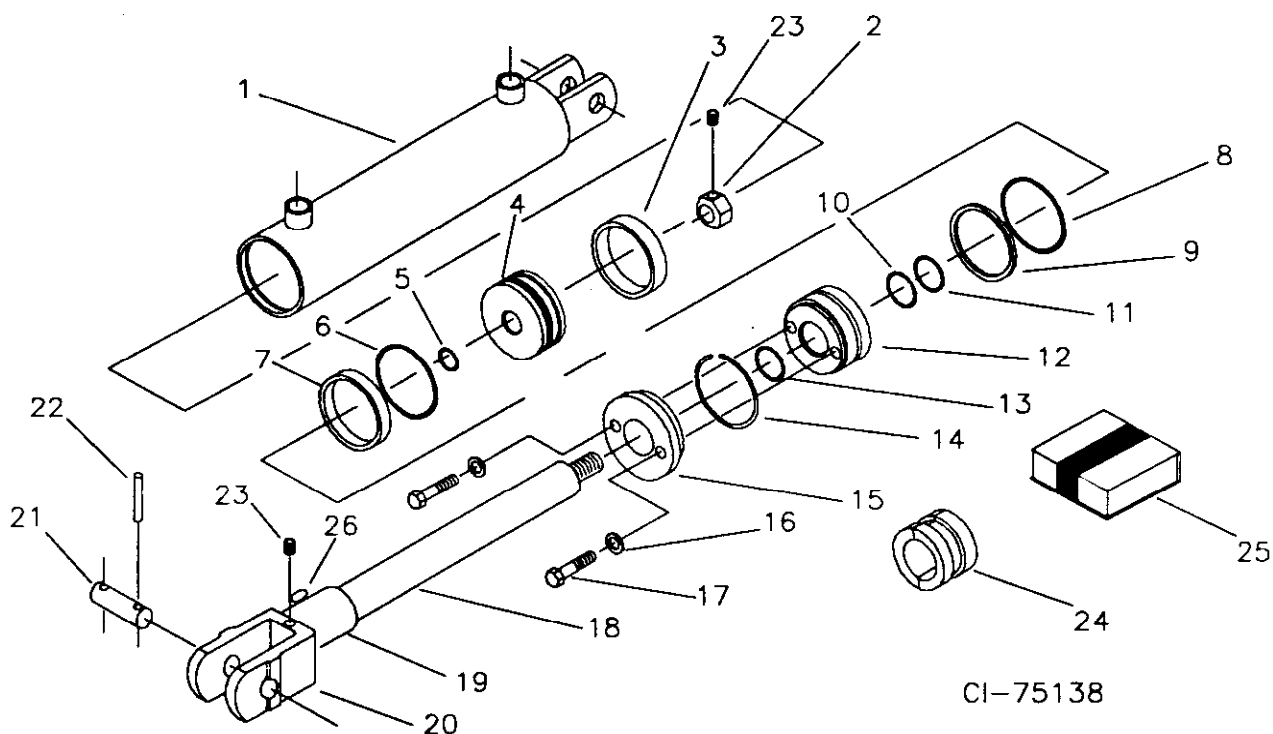
	42579	4 X 8 TBP CYLINDER
1	42573	CYLINDER TUBE
2	14824	PISTON LOCK NUT
3	12289	BACK-UP WASHER 4IN
4	42569	O-RING
5	42577	PISTON
6	12290	SHAFT SEAL
7	12291	PISTON SEAL 4IN
8	12289	BACK-UP WASHER 4IN
9	42570	ROD SEAL
10	42576	END GLAND
11	42571	1-1/2" CANNED WIPER
12	12286	SNAP RING 4IN

ITEM PART NO. DESCRIPTION

13	13851	STOP PLATE 4 X 8
14	88362	LOCK WASHER 3/8
15	88553	BOLT 3/8NC X 1-1/2 GR5
16	13569	CYLINDER ROD 4 X 8
17	13570	SCREW STOP STOP COLLAR
18	42473	CYLINDER PIN
19	42484	SPRING LOCK PIN
20	88387	THUMB SCREW 3/8NC X 1/2
21	14822	CYLINDER YOKE
22	88706	SET SCREW 5/16NC X 5/16
23	15113	STOP COLLAR 1-1/2
24	42664	SEAL KIT
	42505	CYLINDER PIN PACKAGE (H) CONTAINS 42484 & 42473

4 X 9.3 TOP BY-PASS CYLINDER SERIES PE

NOTE: SERIES REFERS TO THE FIRST
TWO DIGITS OF SERIAL NUMBER.



ITEM PART NO. DESCRIPTION

	16211	4 X 9.3 TBP CYLINDER
1	16220	CYLINDER TUBE ASSY
2	14824	PISTON LOCK NUT
3	14534	WEAR RING 4IN
4	14527	TBP PISTON 4IN
5	12290	SHAFT SEAL
6	21097	O-RING 4IN
7	21096	GLIDE RING 4IN
8	12291	PISTON SEAL 4IN
9	12289	BACK-UP WASHER 4IN
10	14903	BACK-UP WASHER 1-1/2IN
11	14902	O-RING 1-1/2IN
12	12283	CYLINDER GLAND 4IN
13	12288	ROD WIPER

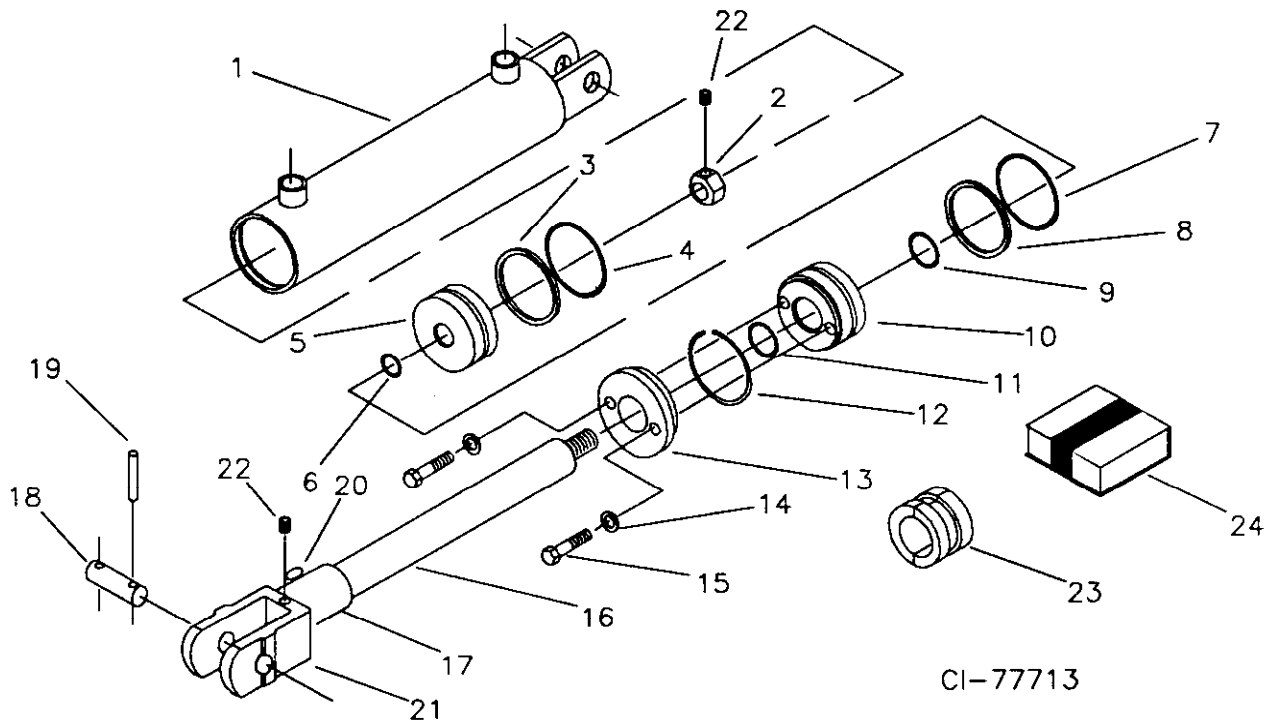
ITEM PART NO. DESCRIPTION

14	12286	SNAP RING 4IN
15	13851	STOP PLATE
16	88362	LOCK WASHER 3/8
17	88553	BOLT 3/8NC X 1-1/2 GR5
18	16221	CYLINDER ROD
19	13570	SCREW STOP COLLAR
20	14822	ADJUSTABLE END YOKE
21	42473	CYLINDER PIN 1 X 3-1/8
22	42484	SPRING LOCK PIN 1/4 X 4-3/4
23	88706	SET SCREW 5/16NC X 5/16
24	15113	ADD-ON STOP COLLAR 1-1/2IN
25	14906	SEAL KIT
26	88387	THUMB SCREW 3/8NC X 1/2
	42505	CYLINDER PIN PACKAGE (H) CONTAINS 42484 & 42473

4 X 9.3 TOP BY-PASS CYLINDER

SERIES PY

NOTE: SERIES REFERS TO THE FIRST TWO DIGITS OF SERIAL NUMBER.



CI-77713

ITEM PART NO. DESCRIPTION

	42580	4 X 9.3 TBP CYLINDER
1	42574	CYLINDER TUBE
2	14824	PISTON LOCK NUT
3	12289	BACK-UP WASHER 4IN
4	42569	O-RING
5	42577	PISTON
6	12290	SHAFT SEAL
7	12291	PISTON SEAL 4IN
8	12289	BACK-UP WASHER 4IN
9	42570	ROD SEAL
10	42576	END GLAND
11	42571	CANNED WIPER 1-1/2"
12	12286	SNAP RING 4IN
13	13851	STOP PLATE 4 X 8

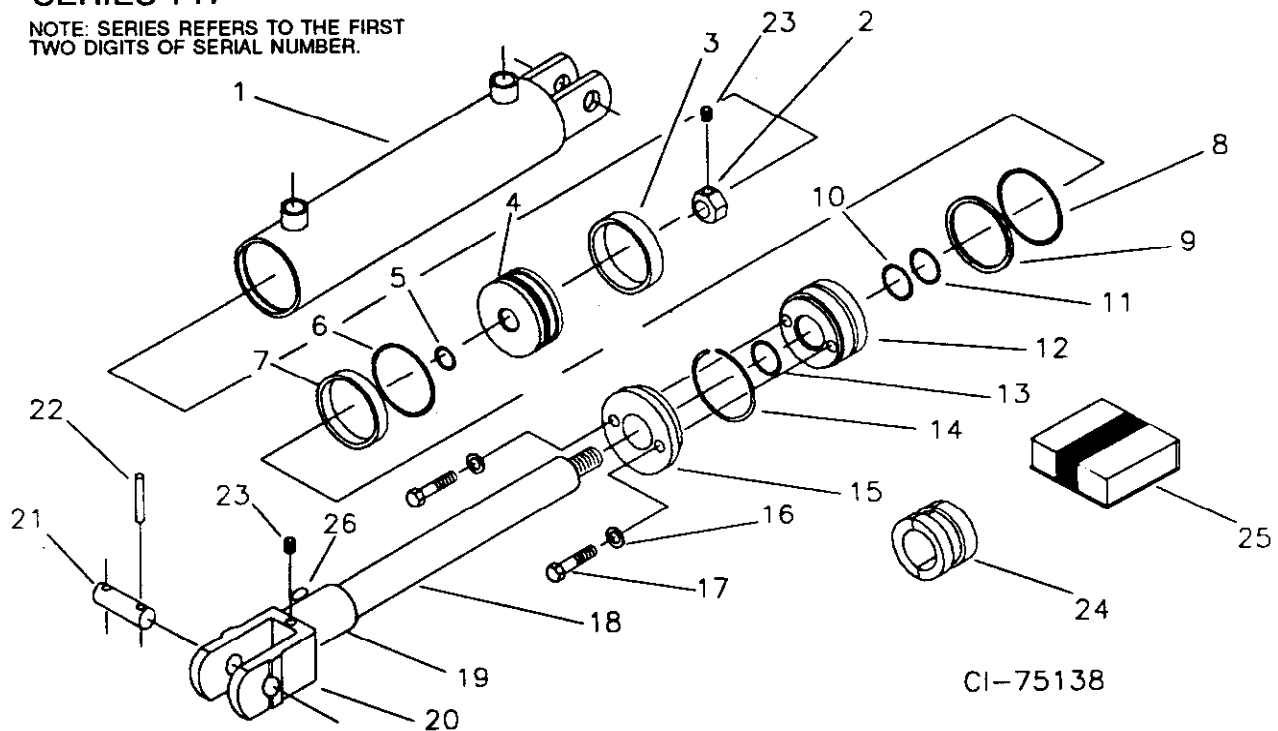
ITEM PART NO. DESCRIPTION

14	88362	LOCK WASHER 3/8
15	88553	BOLT 3/8NC X 1-1/2 GR5
16	16221	4 X 9.3 CYLINDER ROD
17	13570	SCREW STOP STOP COLLAR
18	42473	CYLINDER PIN
19	42484	SPRING LOCK PIN
20	88387	THUMB SCREW 3/8NC X 1/2
21	14822	CYLINDER YOKE
22	88706	SET SCREW 5/16NC X 5/16
23	15113	STOP COLLAR 1-1/2
24	42664	SEAL KIT
	42505	CYLINDER PIN PACKAGE (H)
		CONTAINS 42484 & 42473

4 X 10.8 TOP BYPASS

SERIES PH

NOTE: SERIES REFERS TO THE FIRST TWO DIGITS OF SERIAL NUMBER.



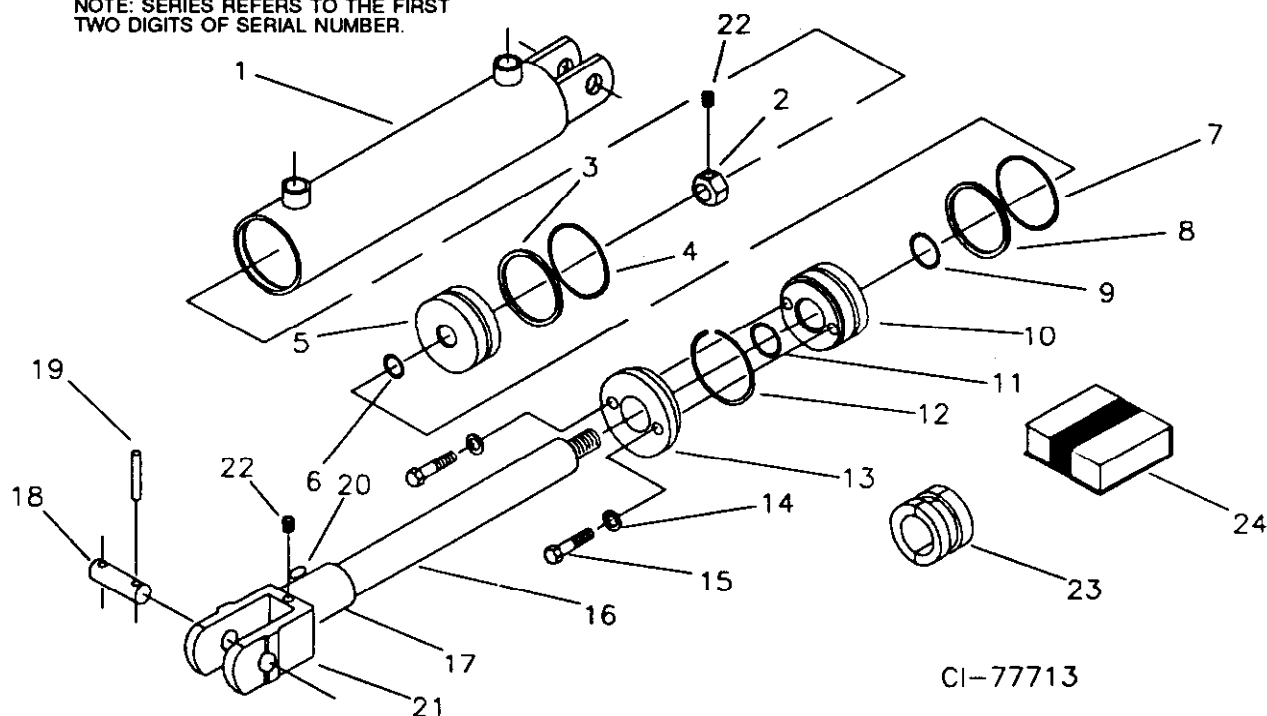
CI-75138

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	16212	4 x 10.8 TOP BYPASS	15	13851	STOP PLATE
2	16224	CYLINDER TUBE ASSEMBLY	16	88362	LOCK WASHER, 3/8
3	14824	PISTON LOCK NUT	17	88553	BOLT, 3/8NC x 1-1/2
4	14534	4" WEAR RING	18	16225	CYLINDER ROD
5	14527	4" TOP BYPASS PISTON	19	13570	SCREW STOP COLLAR
6	12290	1" SHAFT SEAL	20	14822	ADJUSTABLE END YOKE
7	21097	4" O-RING	21	42473	CYLINDER PIN 1 x 3-1/8
8	21096	4" GLIDE RING	22	42484	SPRING LOCK PIN 1/4 x 4-3/4
9	12291	4" PISTON SEAL		42505	CYLINDER PIN PACKAGE (H) CONTAINS 42473 & 42484
10	12289	4" BACK UP WASHER	23	88706	SET SCREW 5/16NC x 5/16
11	14903	1-1/2" BACK UP WASHER	24	15113	ADD-ON STOP COLLAR 1-1/2IN
12	14902	1-1/2" O-RING	25	14906	SEAL KIT
13	12283	4" CYLINDER GLAND	26	88387	THUMB SCREW 3/8NC x 1/2
14	12288	ROD WIPER			
	12286	4" SNAP RING			

4 X 10.8 TOP BYPASS

SERIES PZ

NOTE: SERIES REFERS TO THE FIRST TWO DIGITS OF SERIAL NUMBER.



CI-77713

ITEM PART NO. DESCRIPTION

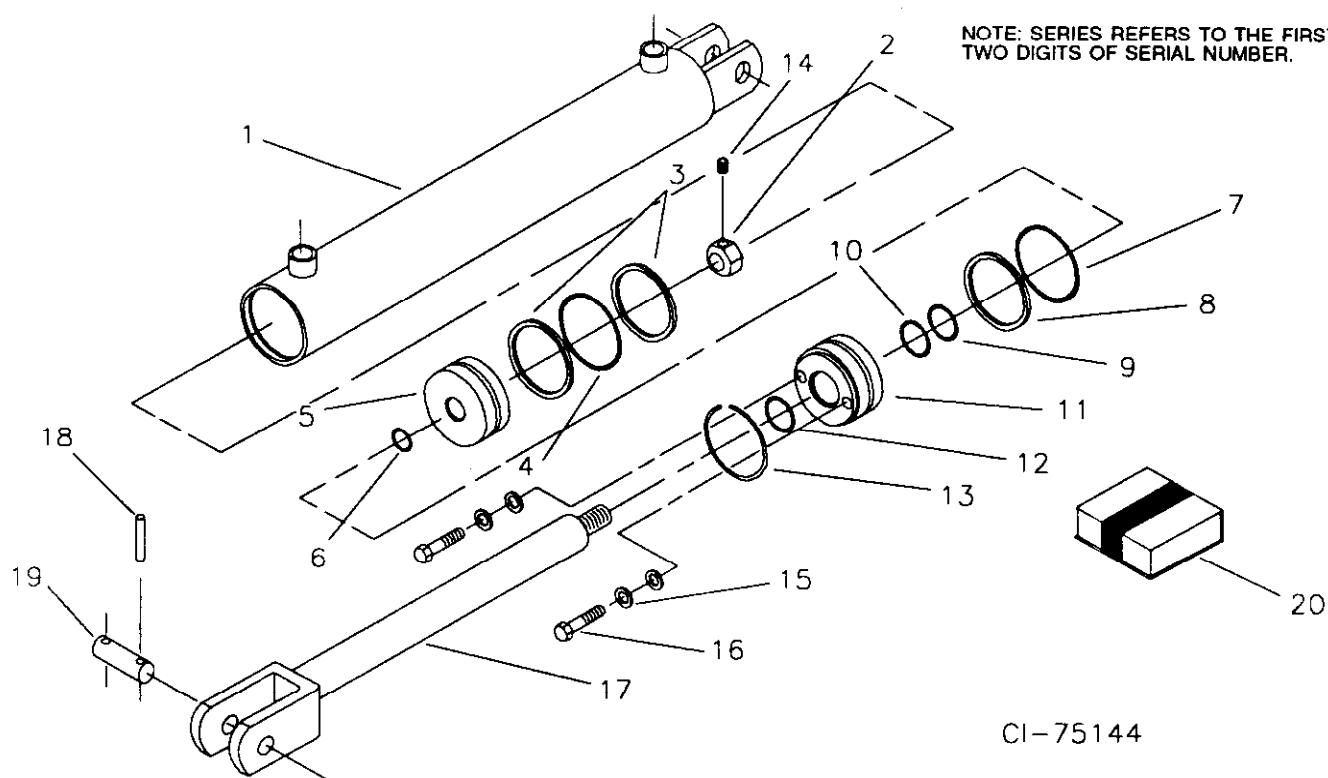
1	42581	4 x 10.8 TOP BYPASS
	42575	4 x 10.8 CYLINDER TUBE
2	14824	PISTON LOCK NUT
3	12289	BACK UP WASHER 4IN
4	42569	O-RING
5	42577	PISTON
6	12290	SHAFT SEAL
7	12291	PISTON SEAL 4IN
8	12289	BACK UP WASHER 4IN
9	42570	ROD SEAL
10	42576	END GLAND
11	42571	CANNED WIPER 1-1/2"
12	12286	SNAP RING 4IN
13	13851	STOP PLATE 4 x 8
14	88362	LOCK WASHER 3/8

ITEM PART NO. DESCRIPTION

15	88553	BOLT 3/8NC x 1-1/2 GR5
16	16225	CYLINDER ROD
17	13570	SCREW STOP STOP COLLAR
18	42473	CYLINDER PIN
19	42484	SPRING LOCK PIN
	42505	CYLINDER PIN PACKAGE (H)
		CONTAINS 42473 & 42484
20	88387	THUMB SCREW 3/8NC x 1/2
21	14822	CYLINDER YOKE
22	88706	SET SCREW 5/16NC x 5/16
23	15113	STOP COLLAR 1-1/2
24	42664	SEAL KIT

3 X 30 STANDARD CYLINDER

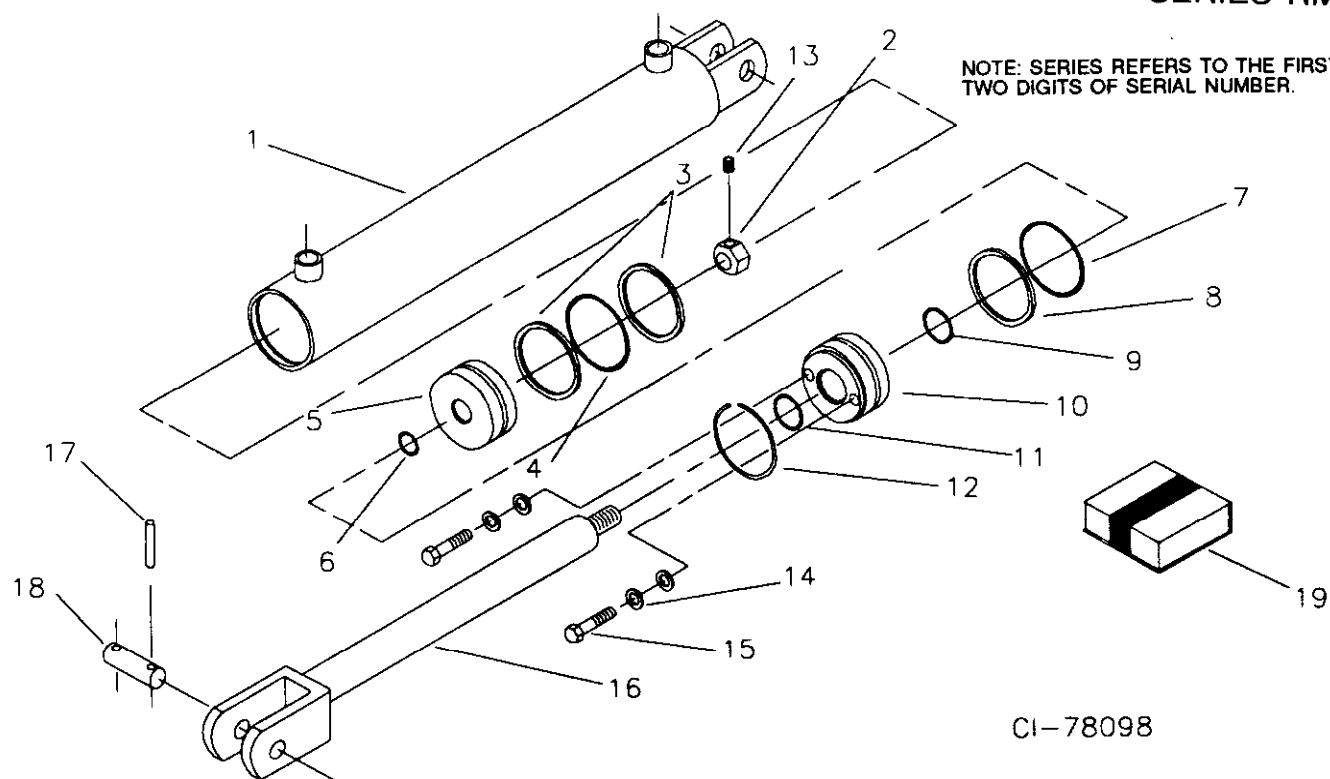
SERIES TA



ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	20974	3 X 30 STANDARD	11	12309	3" CYLINDER GLAND
2	22777	CYLINDER TUBE ASSEMBLY	12	12288	ROD WIPER
3	14824	PISTON LOCK NUT	13	12303	3" SNAP RING
4	12305	3" BACKUP WASHER	14	88706	SET SCREW, 5/16NC x 5/16
5	12304	3" PISTON SEAL	15	88855	FLAT WASHER, 1/4
6	12308	PISTON	16	88190	BOLT, 1/4NC x 1/2
7	12290	1" SHAFT SEAL	17	20963	CYLINDER ROD ASSEMBLY
8	12304	3" PISTON SEAL	18	42484	CYLINDER LOCK PIN
9	12305	3" BACKUP WASHER	19	42472	CYLINDER PIN
10	14902	1-1/2" O-RING		42504	CYLINDER PIN PACKAGE (H)
	14903	1-1/2" BACKUP WASHER	20	14904	SEAL KIT

3 X 30 STANDARD CYLINDER

SERIES RM

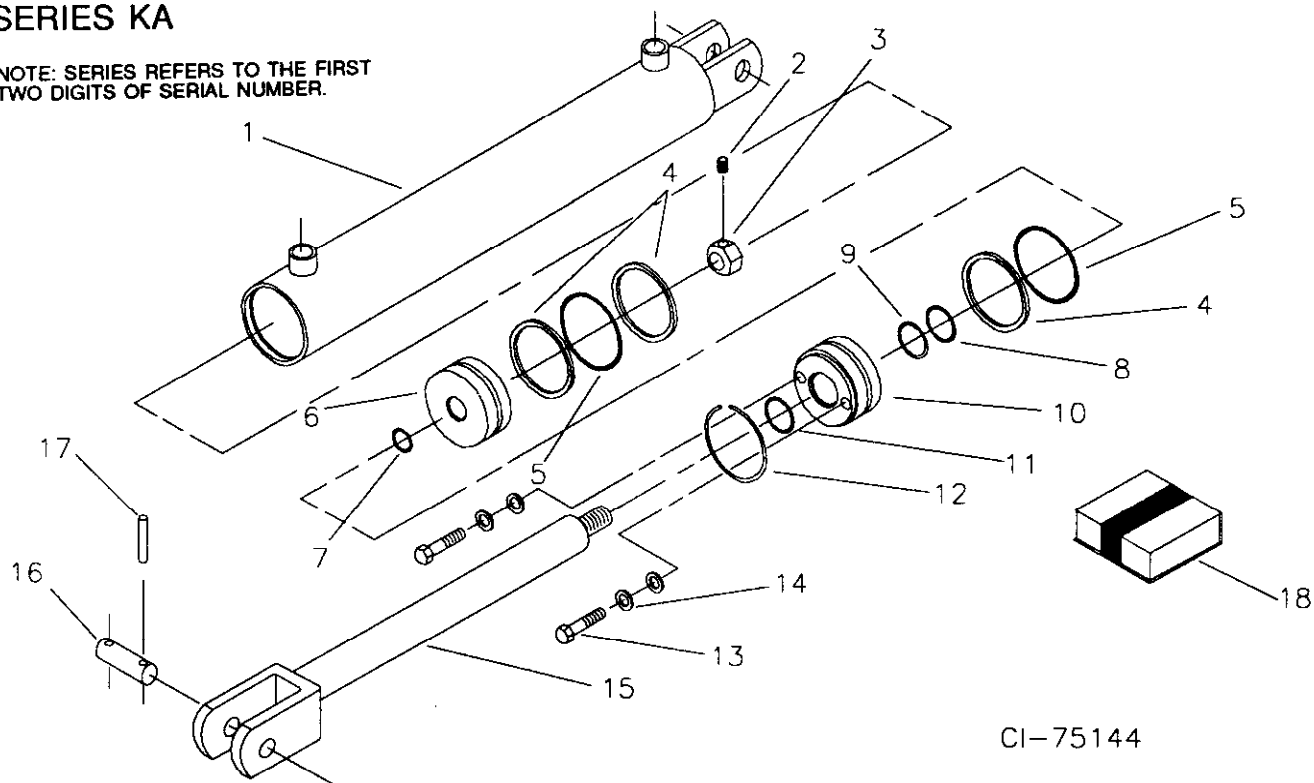


ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	51242	3 X 30 STANDARD	11	42571	1-1/2" CANNED WIPER
2	22777	CYLINDER TUBE ASSEMBLY	12	12303	3" SNAP RING
3	14824	PISTON LOCK NUT	13	88706	SET SCREW, 5/16NC X 5/16
4	12305	3" BACKUP WASHER	14	88855	FLAT WASHER, 1/4
5	12304	3" PISTON SEAL	15	88190	BOLT, 1/4NC X 1/2
6	12308	PISTON	16	20963	CYLINDER ROD ASSEMBLY
7	12290	1" SHAFT SEAL	17	42484	CYLINDER LOCK PIN
8	12304	3" PISTON SEAL	18	42472	CYLINDER PIN
9	12305	3" BACKUP WASHER		42504	CYLINDER PIN PACKAGE (H)
10	42570	ROD SEAL			CONTAINS 42484 & 42472
	51206	3" CYLINDER GLAND	19	51210	SEAL KIT

4 X 30 STANDARD CYLINDER

SERIES KA

NOTE: SERIES REFERS TO THE FIRST TWO DIGITS OF SERIAL NUMBER.



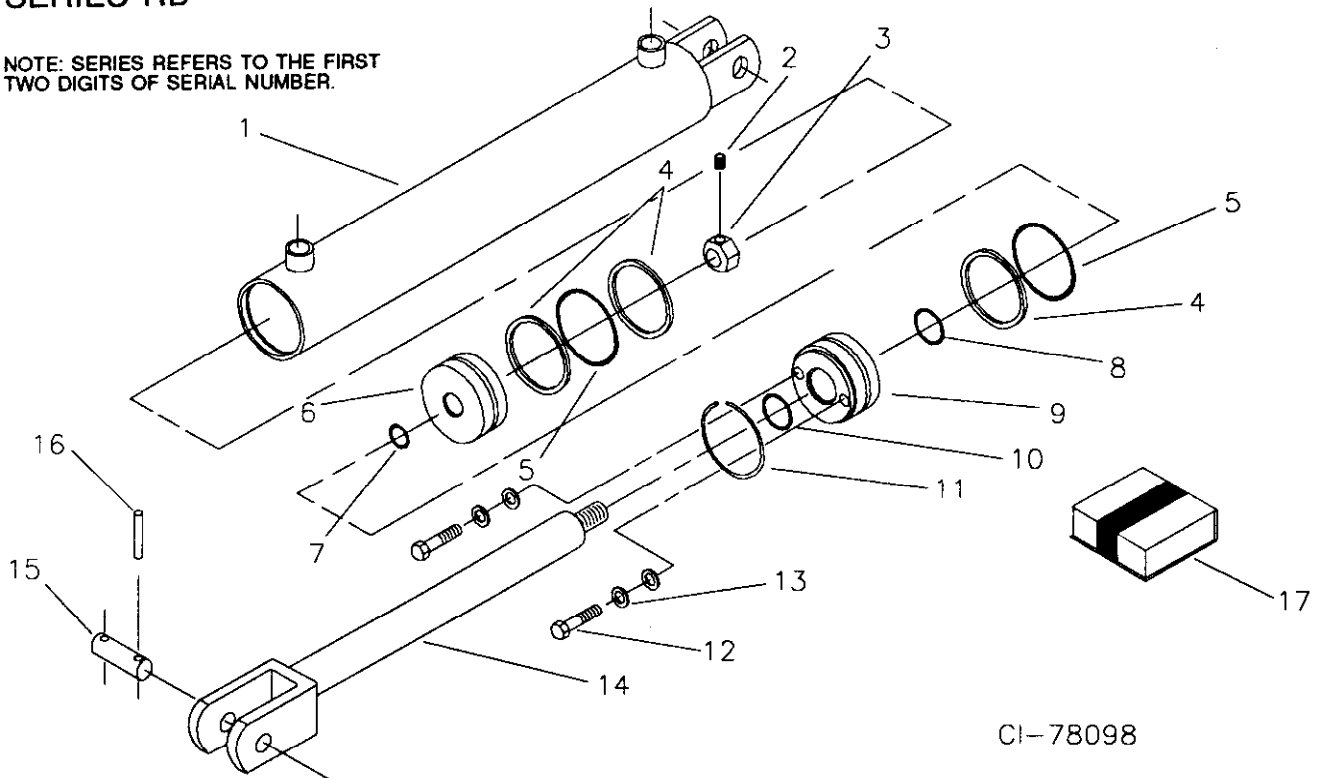
CI-75144

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
	20960	4 X 30 STANDARD	11	12288	ROD WIPER
1	20961	CYLINDER TUBE ASSEMBLY	12	12286	4" SNAP RING
2	88706	SET SCREW, 5/16NC x 5/16	13	88566	BOLT, 3/8 NC x 3/4
3	14824	PISTON LOCK NUT	14	88278	FLAT WASHER, 5/16
4	12289	4" BACK UP WASHER	15	20963	CYLINDER ROD ASSEMBLY
5	12291	4" PISTON SEAL	16	42472	CYLINDER PIN
6	12282	PISTON	17	42484	CYLINDER LOCK PIN
7	12290	1" SHAFT SEAL		42504	CYLINDER PIN PACKAGE (H)
8	14902	1-1/2" O-RING			CONTAINS 42484 & 42472
9	14903	1-1/2" BACK UP WASHER	18	14907	SEAL KIT
10	12283	4" CYLINDER GLAND			

4 X 30 STANDARD CYLINDER

SERIES RD

NOTE: SERIES REFERS TO THE FIRST TWO DIGITS OF SERIAL NUMBER.



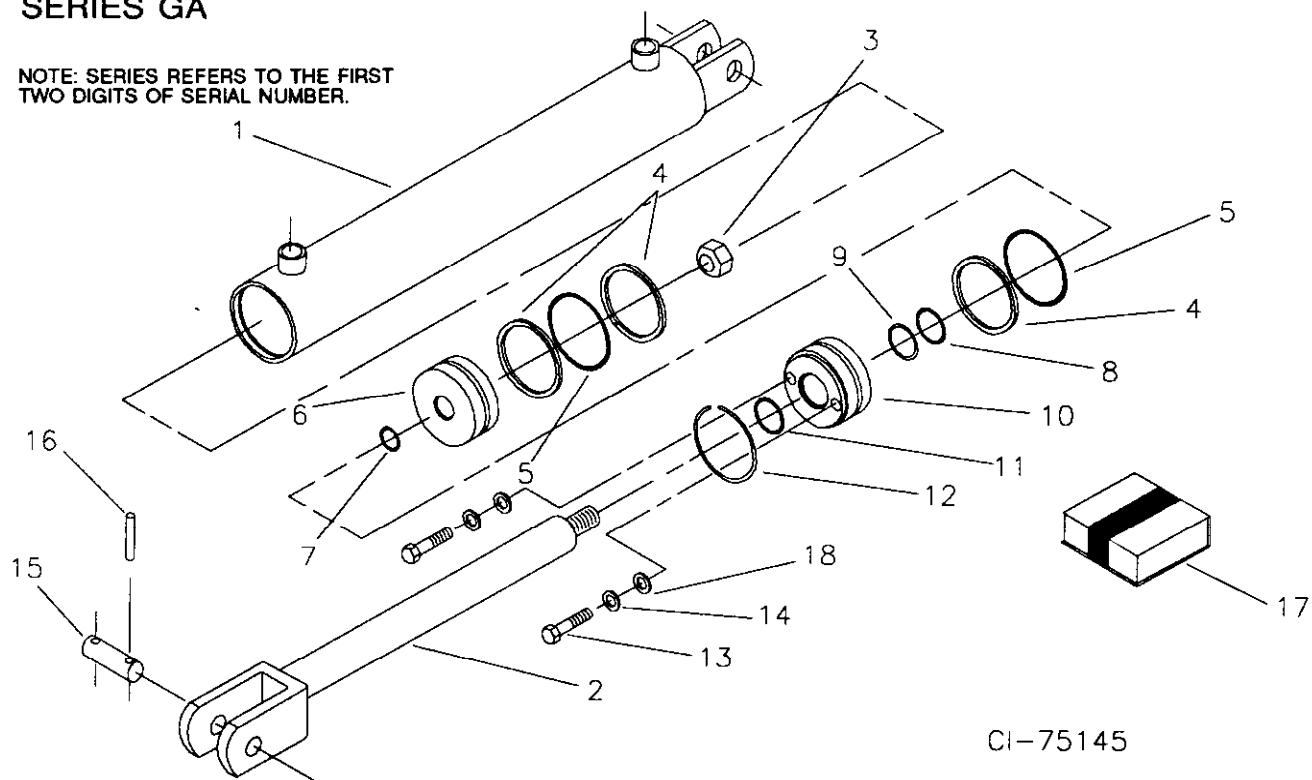
ITEM	PART NO.	DESCRIPTION
1	51229	4 X 30 STANDARD
2	20961	CYLINDER TUBE ASSEMBLY
3	88706	SET SCREW, 5/16NC x 5/16
4	14824	PISTON LOCK NUT
5	12289	4" BACK UP WASHER
6	12291	4" PISTON SEAL
7	12282	PISTON
8	12290	1" SHAFT SEAL
9	42570	ROD SEAL
10	42576	END GLAND
	42571	ROD WIPER

ITEM	PART NO.	DESCRIPTION
11	12286	4" SNAP RING
12	88566	BOLT, 3/8 NC x 3/4
13	88278	FLAT WASHER, 5/16
14	20963	CYLINDER ROD ASSEMBLY
15	42474	CYLINDER PIN
16	42484	CYLINDER LOCK PIN
	42504	CYLINDER PIN PACKAGE (H)
		CONTAINS 42484 & 42472
17	51212	SEAL KIT

5 X 30 STANDARD CYLINDER

SERIES GA

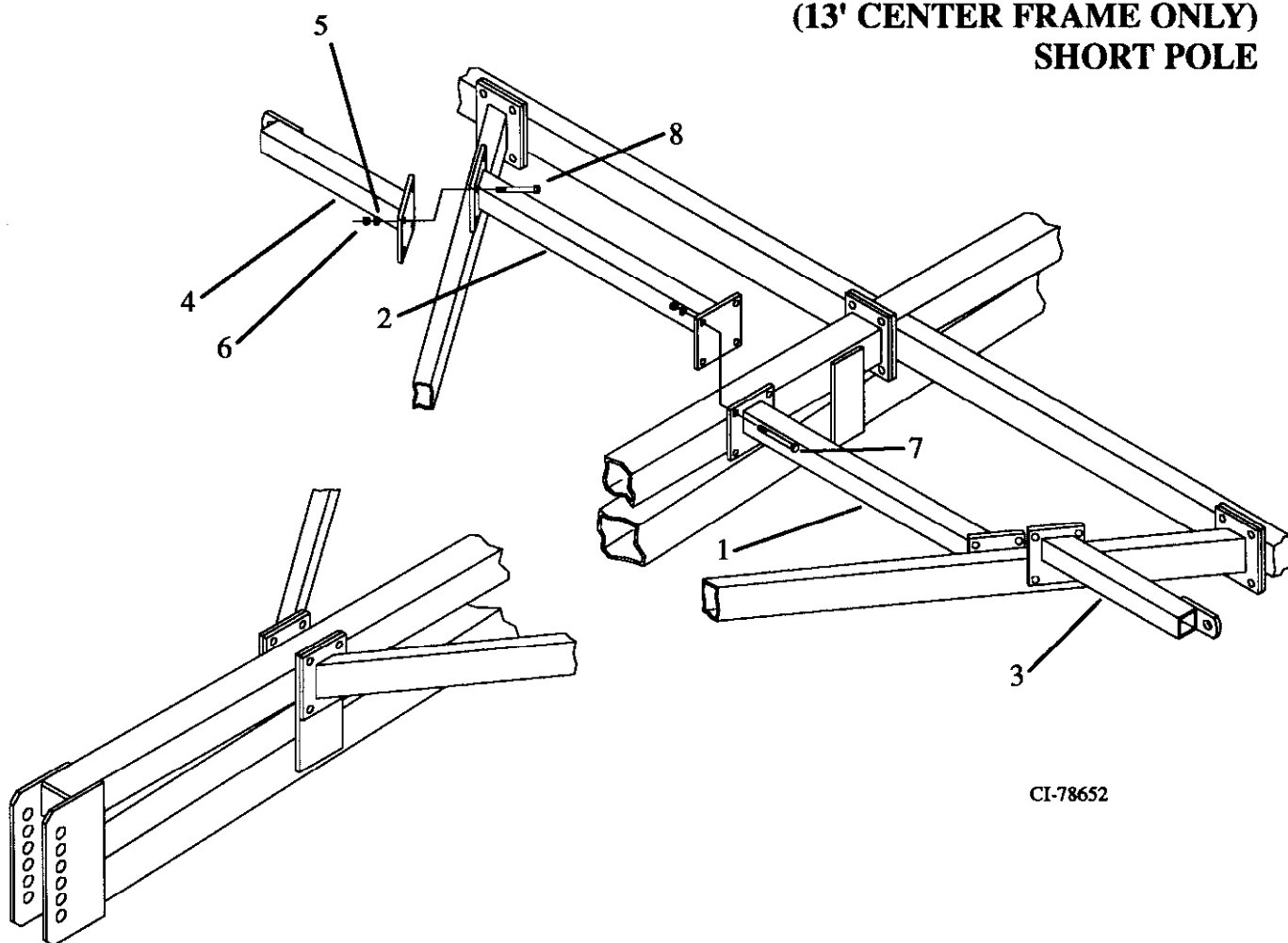
NOTE: SERIES REFERS TO THE FIRST TWO DIGITS OF SERIAL NUMBER.



CI-75145

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	20966	5 X 30 STANDARD	11	12328	2" ROD WIPER
2	20967	CYLINDER TUBE ASSEMBLY	12	12324	5" SNAP RING
3	20969	CYLINDER ROD ASSEMBLY	13	88566	BOLT, 3/8 NC x 3/4
4	42082	PISTON NUT, 1-1/2 NF	14	88278	FLAT WASHER, 5/16
5	12330	5" BACK UP WASHER	15	42472	CYLINDER PIN
6	12327	5" PISTON SEAL	16	42484	CYLINDER LOCK PIN
7	13293	PISTON		42504	CYLINDER PIN PACKAGE
8	12456	1-1/2" SHAFT SEAL			CONTAINS 42484 & 42472
9	14911	2" O-RING	17	14908	SEAL KIT
10	14910	2" BACK UP WASHER	18	47802	3/8 FLAT WASHER
	47803	5" CYLINDER GLAND			

MAIN FRAME 5TH BAR **(13' CENTER FRAME ONLY)** **SHORT POLE**



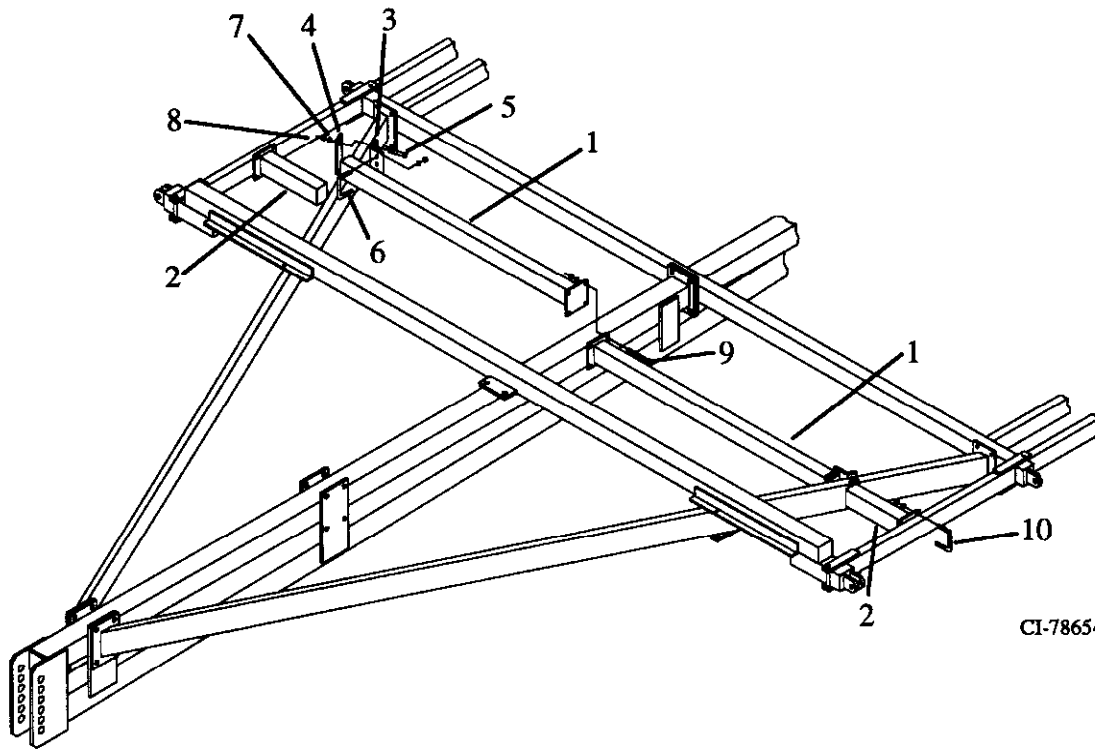
CI-78652

ITEM PART NO. DESCRIPTION

1	52908	Left 13FT Short Pole Center Bar
2	52909	Right 13FT Short Pole Center Bar
3	53905	Left 13FT Short Pole Hinged Bar
4	52906	Right 13FT Short Pole Hinged Bar
5	88129	5/8 Lock Washer
6	88126	5/8NC Nut
7	88295	5/8NC x 6 GR5 Bolt
8	88298	5/8NC x 4 GR5 Bolt

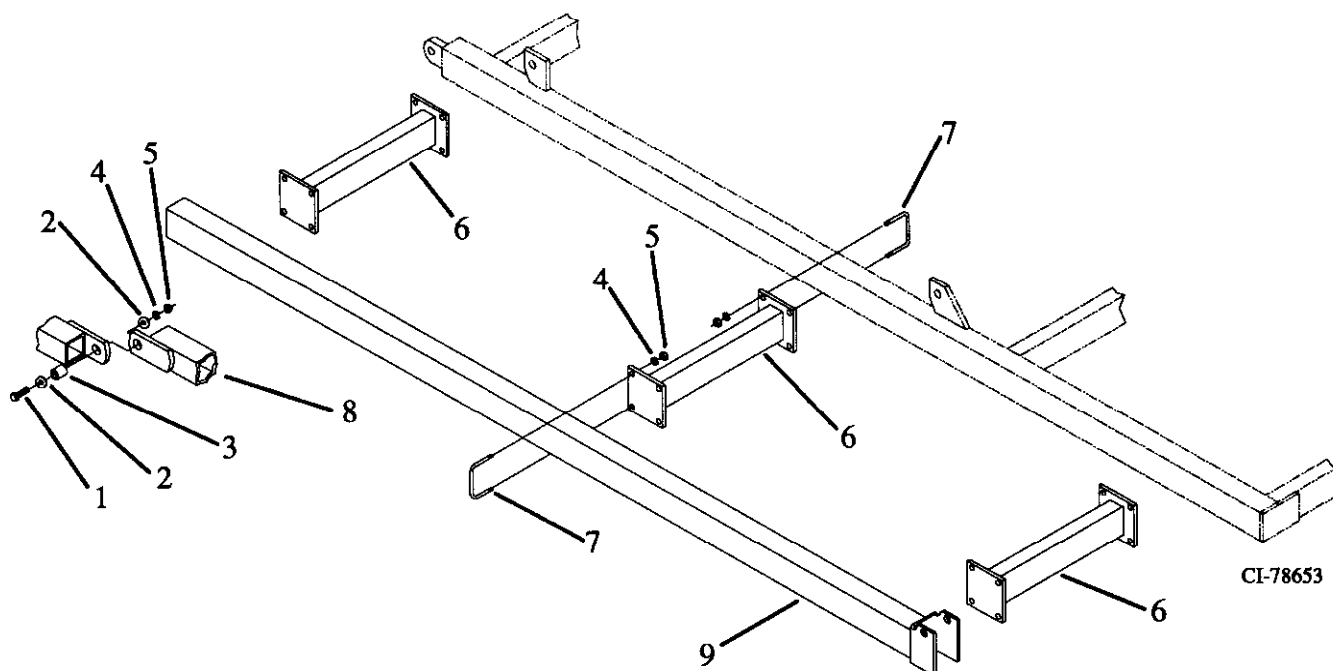
MAIN FRAME 5TH BAR

LONG POLE



ITEM	PART NO.	DESCRIPTION
1	52955	Main Frame Inner Stub 17' MF Shown
	52954	Main Frame Inner Stub 13'
2	52951	Main Frame Outer Stub
3	52949	17' Main Frame Flange
	52950	13' Main Frame Flange
4	52953	Flat
5	88298	5/8NC x 4 GR5 Bolt
6	88501	5/8NC x 4 x 4-1/4 U-Bolt
7	88129	5/8 Lock Washer
8	88126	5/8NC Nut
9	88295	5/8NC x 6 GR5 Bolt
10	88388	5/8NC x 4 x 3-1/4 U-Bolt

INNER WING 5TH BAR

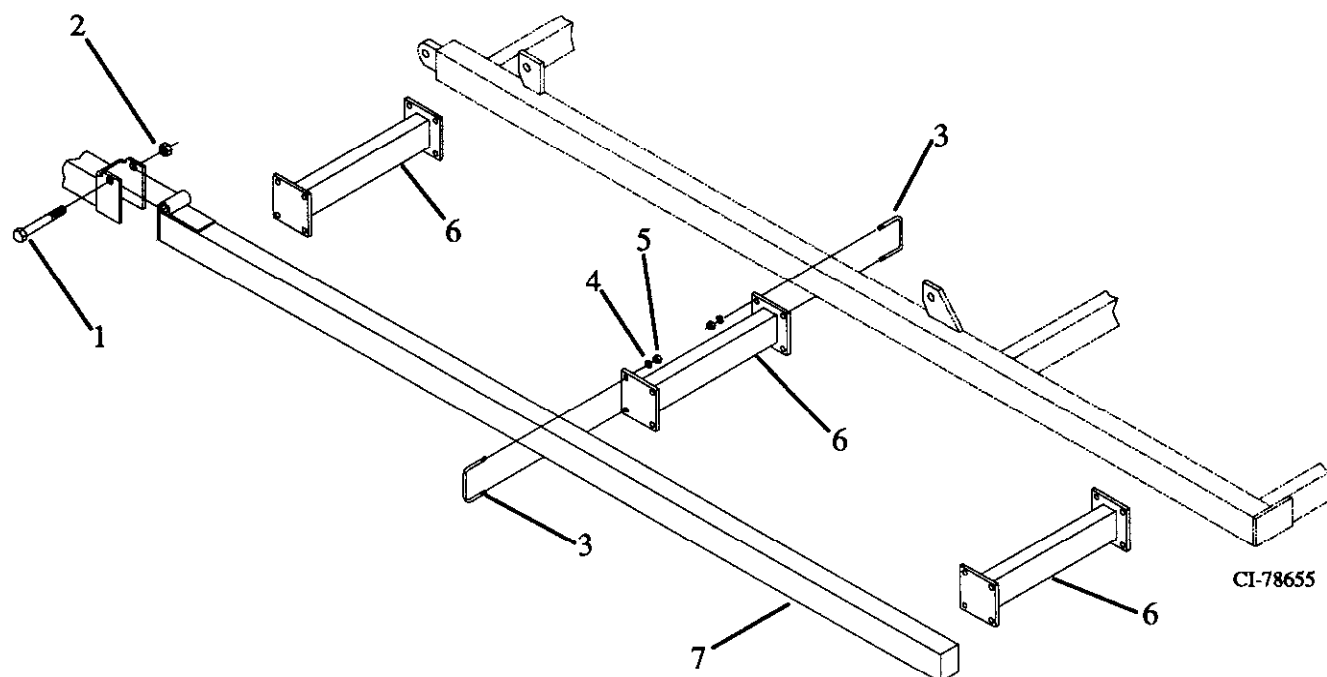


ITEM	PART NO.	DESCRIPTION
1	88294	5/8NCx2 GR5 Bolt (*)
2	88277	5/8 Flat Washer (*)
3	48672	5th Bar Hinge Bushing (*)
4	88129	5/8 Lock Washer
5	88126	5/8NC Nut
6	53336	3400 5th Bar Stub
7	88501	5/8NC x 4 x 4-1/4 U-Bolt
8	53345	5th Bar 8' Left Inner Wing (Shown)
	53346	5th Bar 8' Right Inner Wing
9	53347	5th Bar 10' Inner Wing (Shown)
	53348	5th Bar 11-1/2' Inner Wing
	53349	5th Bar 13-1/2' Inner Wing

(*) Used only on 8' Inner Wings

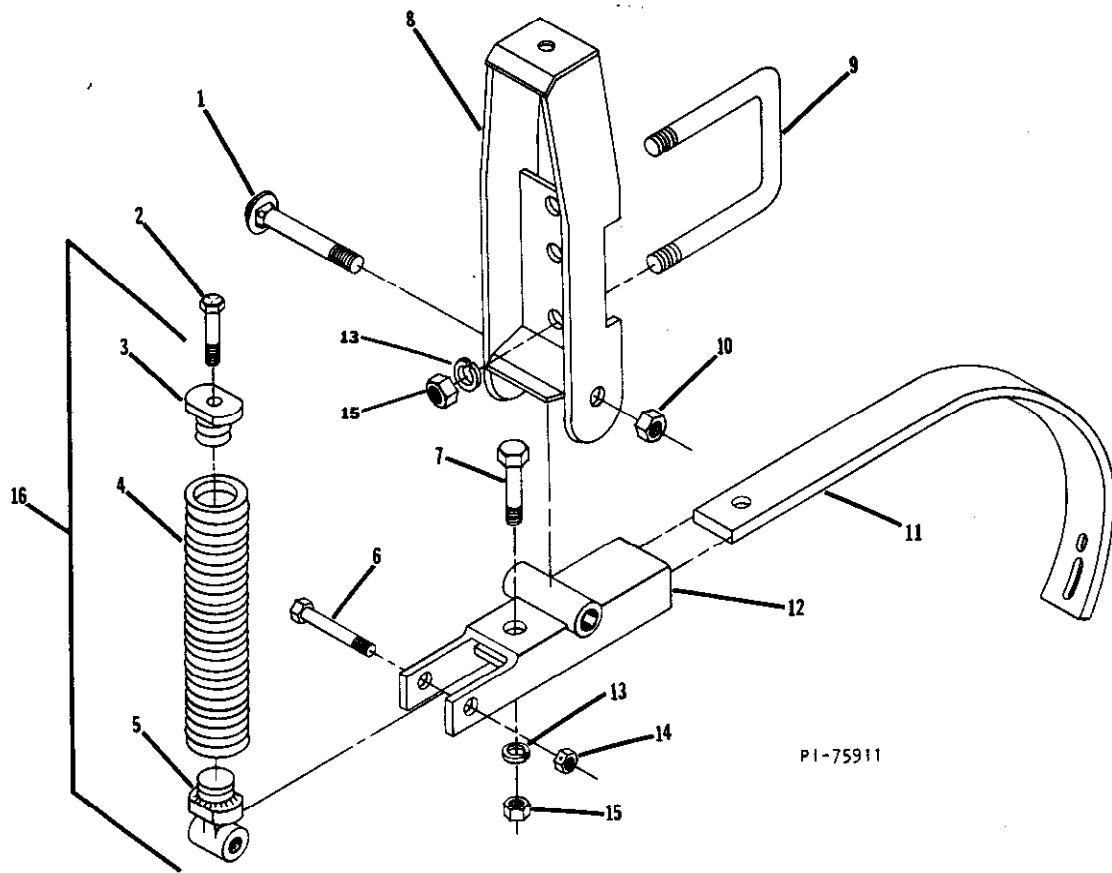
OUTER WING 5TH BAR

10-1/2' OUTER WING SHOWN



ITEM PART NO. DESCRIPTION

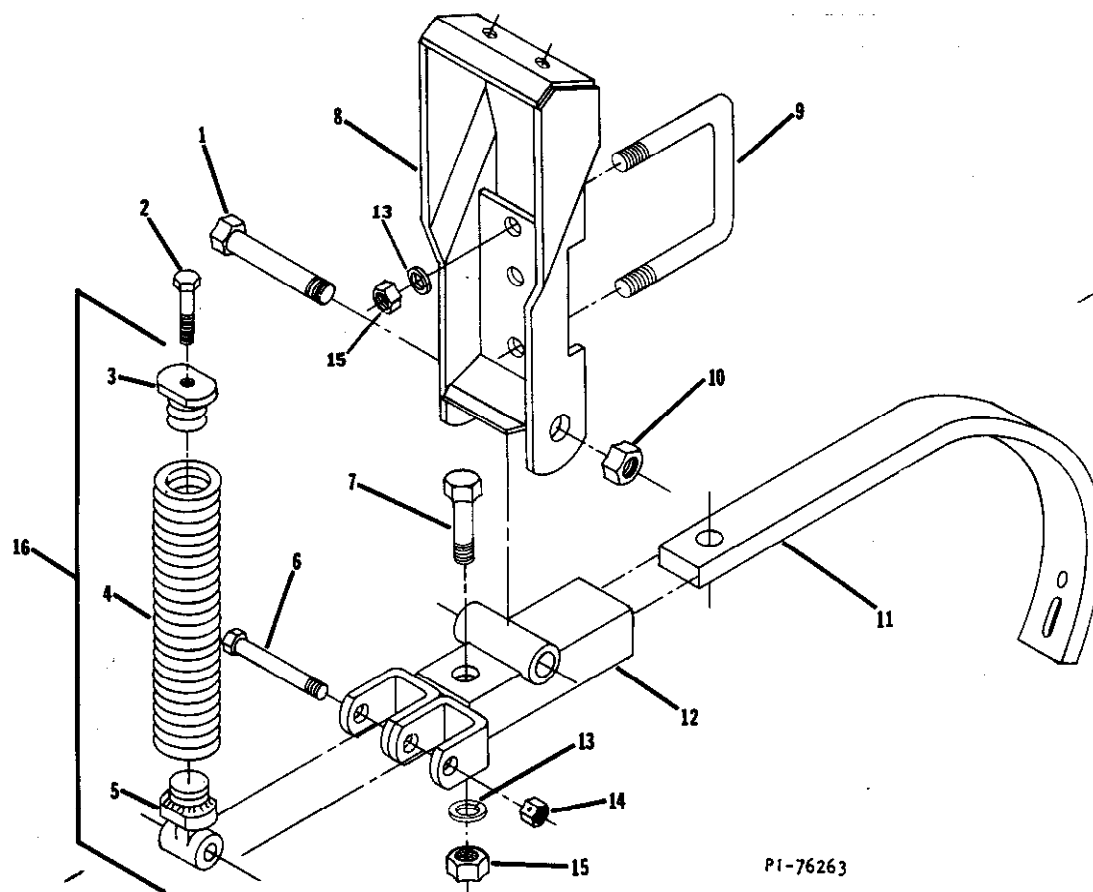
1	88294	5/8NCx2 GR5 Bolt
2	88277	5/8 Flat Washer
3	88501	5/8NC x 4 x 4-1/4 U-Bolt
4	88129	5/8 Lock Washer
5	88126	5/8NC Nut
6	53336	3400 5th Bar Stub
7	53350	5th Bar 5' Outer Wing
	53351	5th Bar 7' Outer Wing
	53352	5th Bar 9' Outer Wing
	53353	5th Bar 10-1/2' Outer Wing



SHANK ASSEMBLY

Item	Part No.	Description	Qty.
	20570	Shank Assy (4IN) (Ref Items 1-8, 10-16)	
1	15579	Shank Carriage Bolt	1
2	23153	Bolt, 1/2 NC x 2-1/2	1
3	11398	Spring Plug	1
4	11510	3/8 Dia. Wire Spring	1
5	11397	Spring Handle	1
6	20637	Bolt, 1/2 NF x 3	1
7	88294	Bolt, 5/8 NC x 2 GR 5	1
8	20569	Shank To Frame Bracket	1

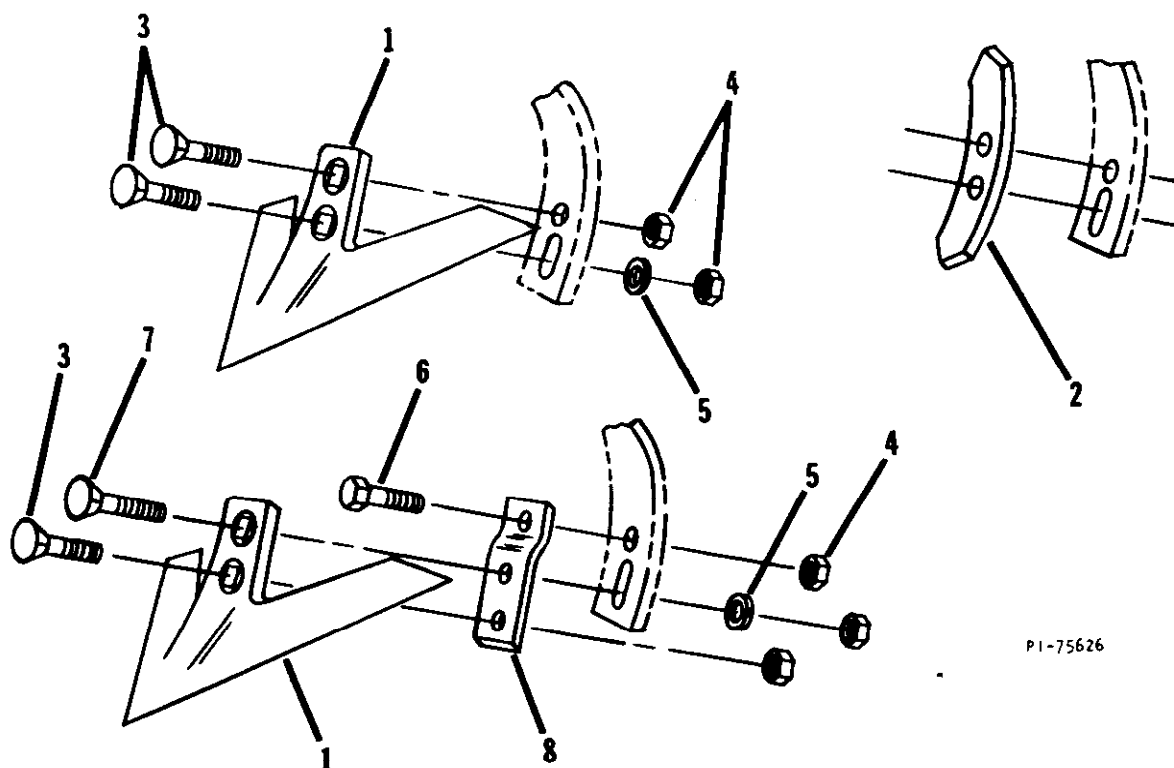
Item	Part No.	Description	Qty.
9	88501	U-Bolt, 5/8 NC x 4 x 4-1/8	1
10	22463	Lock Nut, 3/4 NF	1
11	11511	Shank	1
12	11509	Shank Holder	1
13	88129	Lock Washer, 5/8	3
14	88304	Lock Nut, 1/2 NF	1
15	88126	Nut, 5/8 NC	3
16	11540	Spring & Plug Assy (Ref Items 3, 4 & 5)	1



TWIN SHANK ASSEMBLY

Item	Part #	Description	Qty.
	22053	Twin Spring Shank Assy (Ref Items 1-8, 10-16)	
1	22933	Bolt, 3/4 NF x 4-1/2	1
2	23153	Bolt, 1/2 NC x 2-1/2	2
3	11398	Spring Plug	2
4	11510	Spring	2
5	11397	Spring Handle	2
6	88574	Bolt, 1/2 NC x 5-1/2	1
7	88294	Bolt, 5/8 NC x 2 GR 5	1
8	22047	Twin Spring Bracket	1

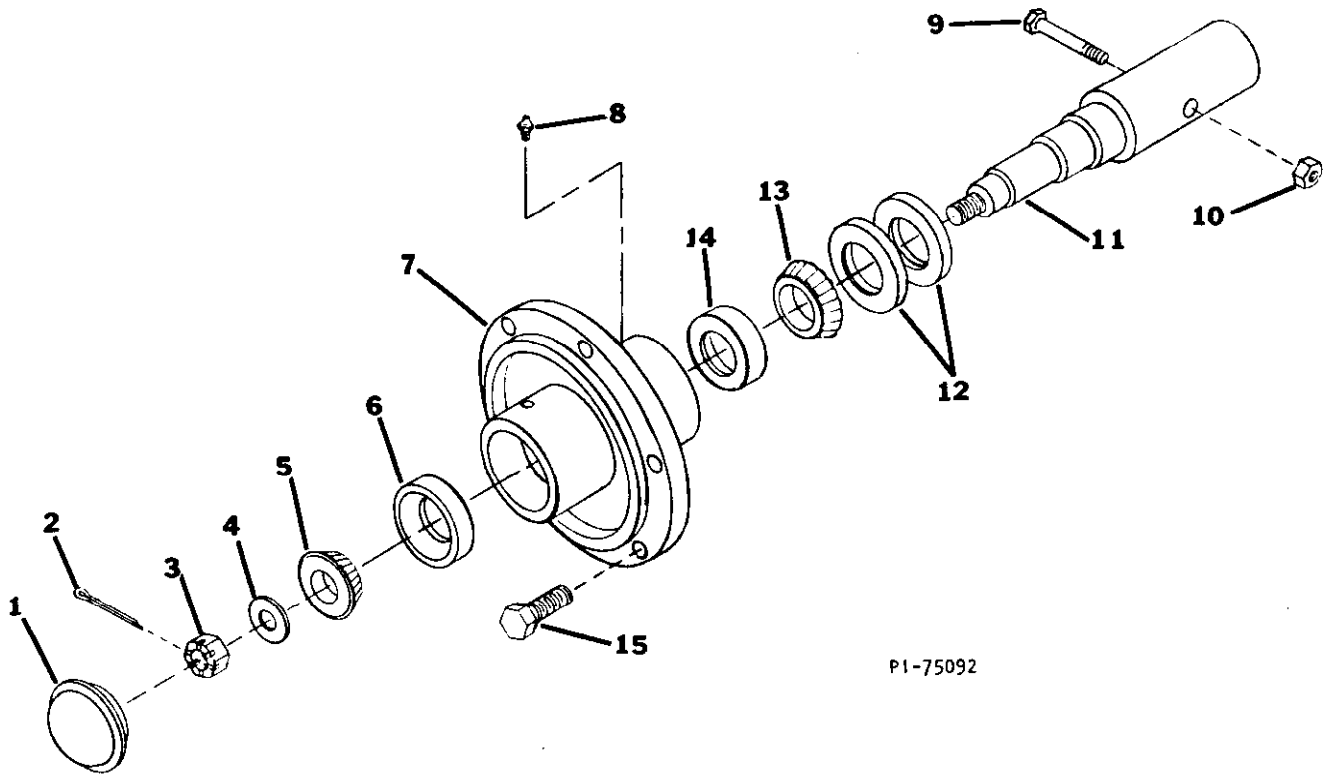
Item	Part #	Description	Qty.
9	88501	U-Bolt, 5/8 NC x 4 x 4-1/4	1
10	47926	Cone Locknut	1
11	21535	HD Shank	1
12	22051	Shank Holder	1
13	88129	Lock Washer, 5/8	3
14	88363	Lock Nut, 1/2 NC	1
15	88126	Nut, 5/8 NC	3
16	11540	Spring Plug Assy (Ref Items 3, 4 & 5)	2



SHOVELS & SPIKES

Item	Part #	Description	Qty.
1	14685	HK 7/16x1-1/2 FC Shovel Kit(25) (Ref. Items 3, 4 & 5 - Contains Hardware for 25 Shovels)	
	16339	FC Shovel Extension Kit (Ref. Items 3,4,5,6, 7 & 8 - Kit Contains Hardware for 4 Shovels)	
	25853	4" Shovel	
	19802	7" High Crown Shovel	
	19803	9" High Crown Shovel	
	15221	9" Dura-Face Sweep	
	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	

Item	Part #	Description	Qty.
2	11952	2" Spike	
3	88599	Plow Bolt, 7/16 NC x 1-1/2	
	88632	Plow Bolt, 7/16 NC x 1-3/4 (Repair Head)	
4	88344	Nut, 7/16 NC	
5	88152	Flat Washer, 7/16	
6	88392	Bolt, 7/16 NC x 1-1/2	
7	88464	Plow Bolt, 7/16 NC x 2-1/4	
8	16338	FC Shovel Extension	
	22297	HK 7/16x1-3/4 FC Shovel Kit(25) (Ref. Items 3, 4 & 5 - Contains Hardware for 25 Shovels)	

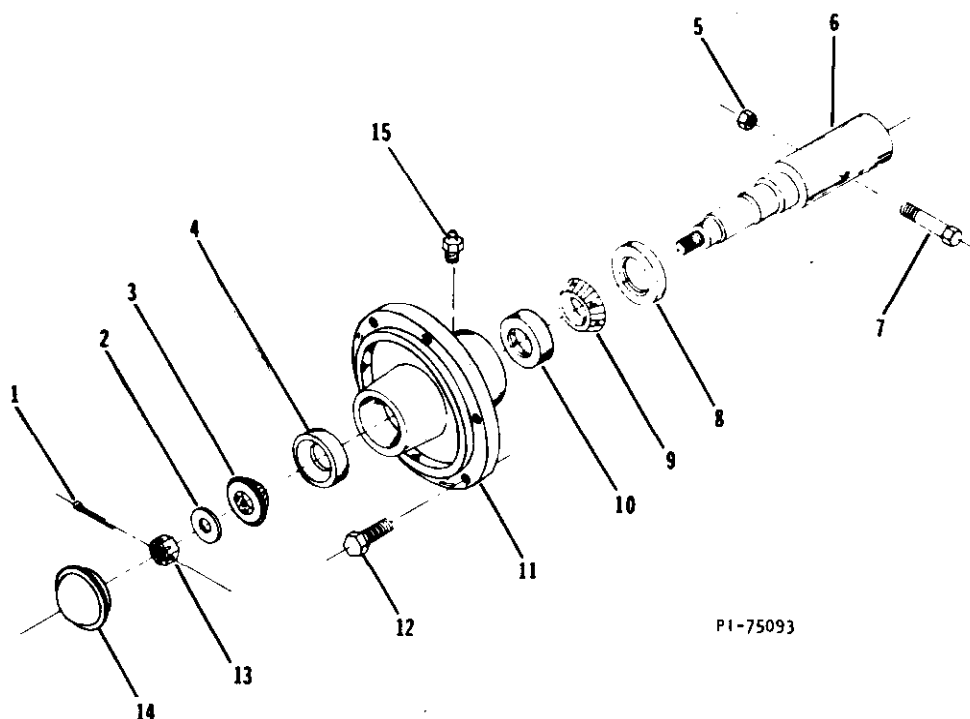


PI-75092

1 3/4" HUB & SPINDLE

Item	Part No.	Description	Qty.
	41233	Hub & Spindle Assembly (Items 1-8, 11-15)	
1	11381	Dust Cap	1
2	88301	Cotter Pin, 3/16 x 1-1/2	1
3	88340	Slotted Nut, 7/8 NF	1
4	16094	Spindle Washer, 7/8	1
5	10345	Outer Bearing Cone	1
6	10344	Outer Bearing Cup	1
7	30405	Machine Hub (Includes 6, 8, & 14)	1

Item	Part No.	Description	Qty.
8	88263	Grease Fitting, 1/8 NPT	1
9	88304	Lock Nut, 1/2 NF	1
10	88313	Bolt, 1/2 NF x 3 GR 5	1
11	41232	Spindle	1
12	11377	Seal (Single Lip)	1
	26121	Triple Lip Seal Kit (Includes Wear Sleeve)	1
13	11378	Inner Bearing Cone	1
14	11379	Inner Bearing Cup	1
15	88142	Wheel Bolt, 1/2 NF x 1	6

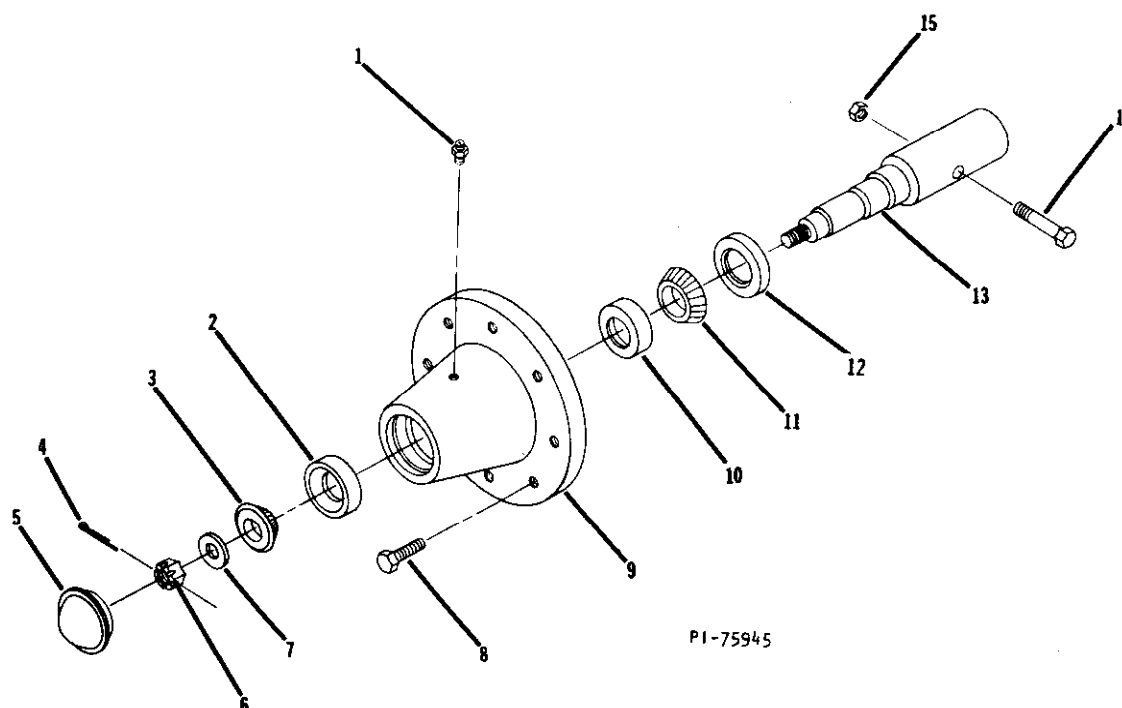


PI-75093

2" HUB & SPINDLE

Item	Part No.	Description	Qty.
	14131	2" Hub & Spindle Assembly (Items 1-4, 6, 8-15)	
1	88301	Cotter Pin, 3/16 x 1-1/2	1
2	16094	Spindle Washer, 7/8	1
3	10345	Outer Bearing Cone	1
4	10344	Outer Bearing Cup	1
5	88304	Lock Nut, 1/2 NF	1
6	14251	Spindle	1
7	88429	Bolt, 1/2 NF x 3-1/4 GR 5	1

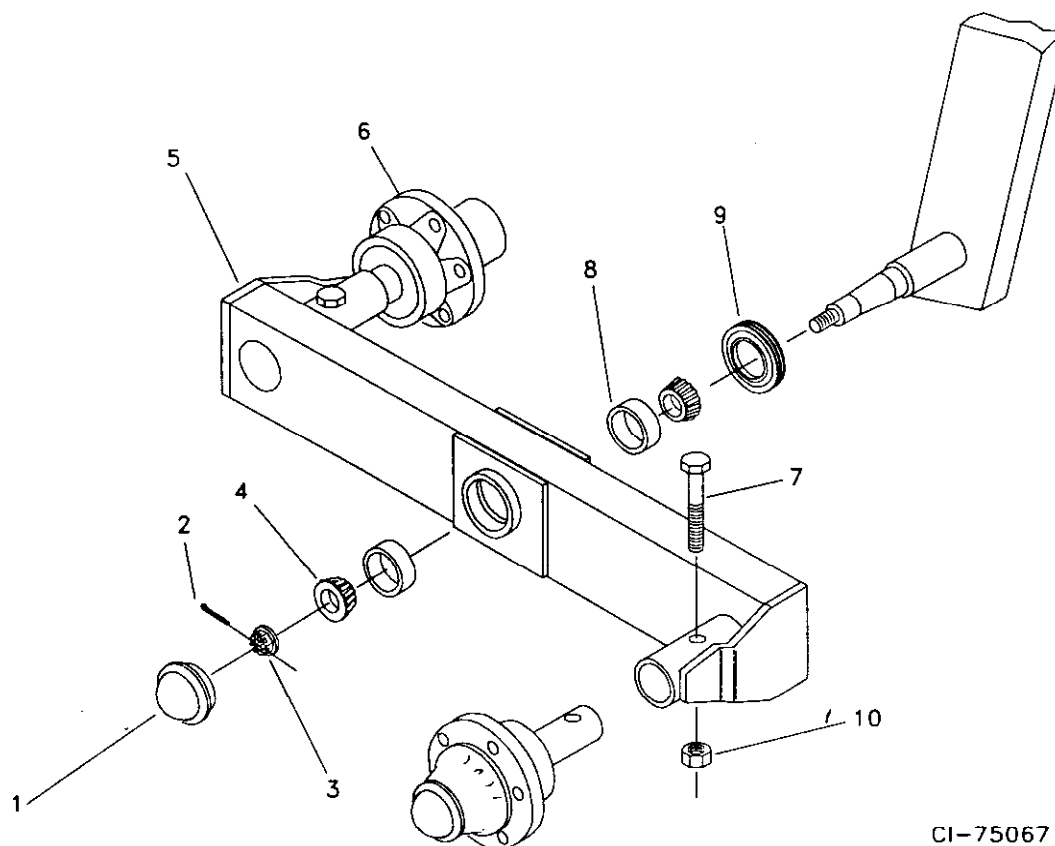
Item	Part No.	Description	Qty.
8	14247	Seal	1
9	14248	Inner Bearing Cone	1
10	14249	Inner Bearing Cup	1
11	24097	Machined Hub (Includes 4, 10, & 15)	1
12	88142	Wheel Bolt, 1/2 NF x 1	6
13	88340	Slotted Nut, 7/8 NF	1
14	11381	Dust Cap	1
15	88263	Grease Fitting, 1/8 NPT	1



2 1/2" HUB & SPINDLE

Item	Part No.	Description	Qty.
	16154	2-1/2" Hub & Spindle Assy (Items 1-13)	
1	88143	Grease Fitting, 1/4	1
2	16082	Outer Bearing Cup	1
3	16081	Outer Bearing Cone	1
4	88301	Cotter Pin, 3/16 x 1-1/2	1
5	16077	Hub Cap	1
6	88299	Slotted Nut, 1 NF	1
7	88196	Flat Washer, 1"	1

Item	Part No.	Description	Qty.
8	88456	Wheel Bolt, 9/16 NF x 1	2
9	41054	8 Bolt Hub, Machined	1
10	16084	Inner Bearing Cup	1
11	16083	Inner Bearing Cone	1
12	16080	2-1/2" Spindle Seal	1
13	16156	2-1/2" Spindle	1
14	88298	Bolt, 5/8 NC x 4 GR 5	1
15	88369	Lock Nut, 5/8 NC	1

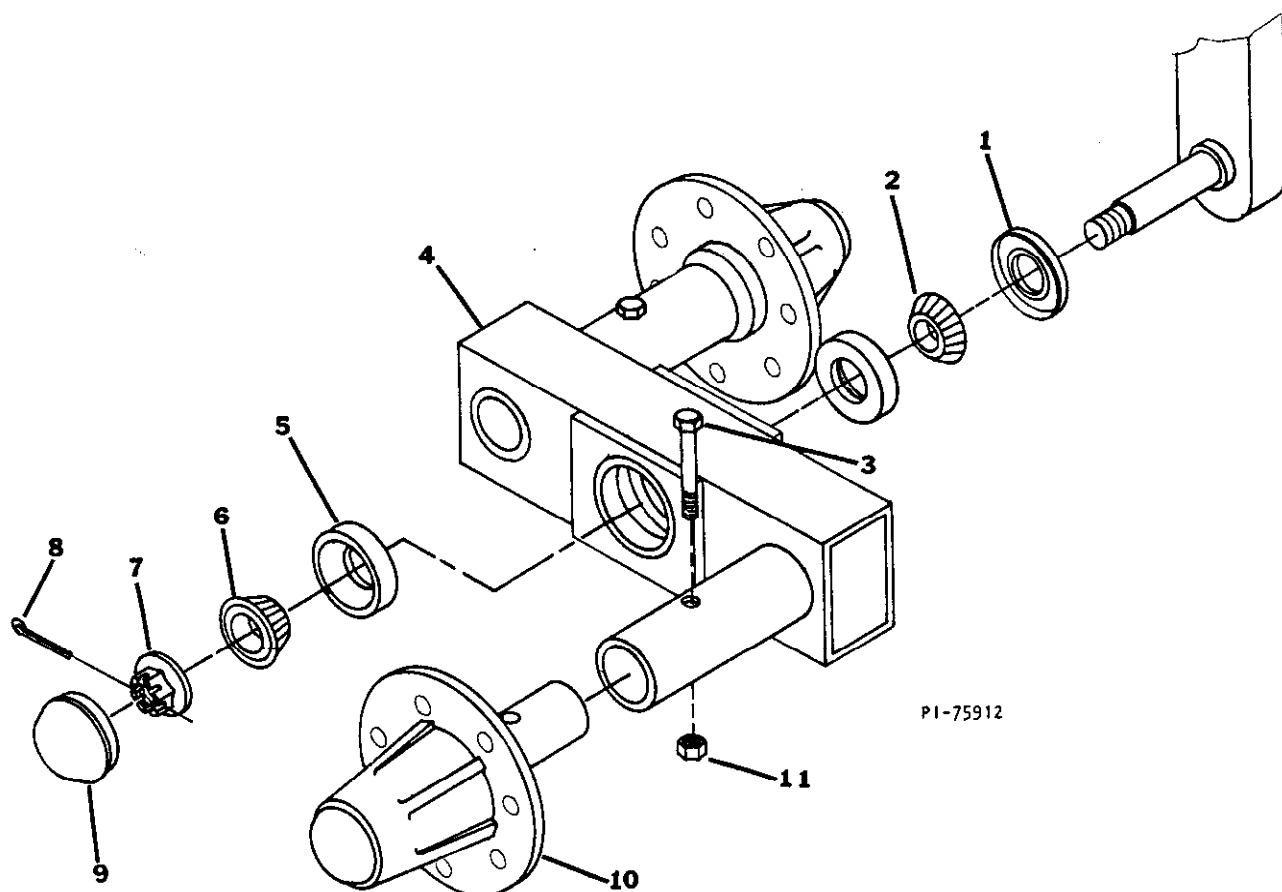


CI-75067

2" WALKING TANDEM

Item	Part No.	Description	Qty.
1	12206	Dust Cap	1
2	88133	Cotter Pin, 3/16 x 2	1
3	12712	Walking Tandem Nut Assembly	1
4	12103	Bearing Cone	2
5	15905	Walking Tandem Bearing Cup Assembly (Includes Item 8)	1

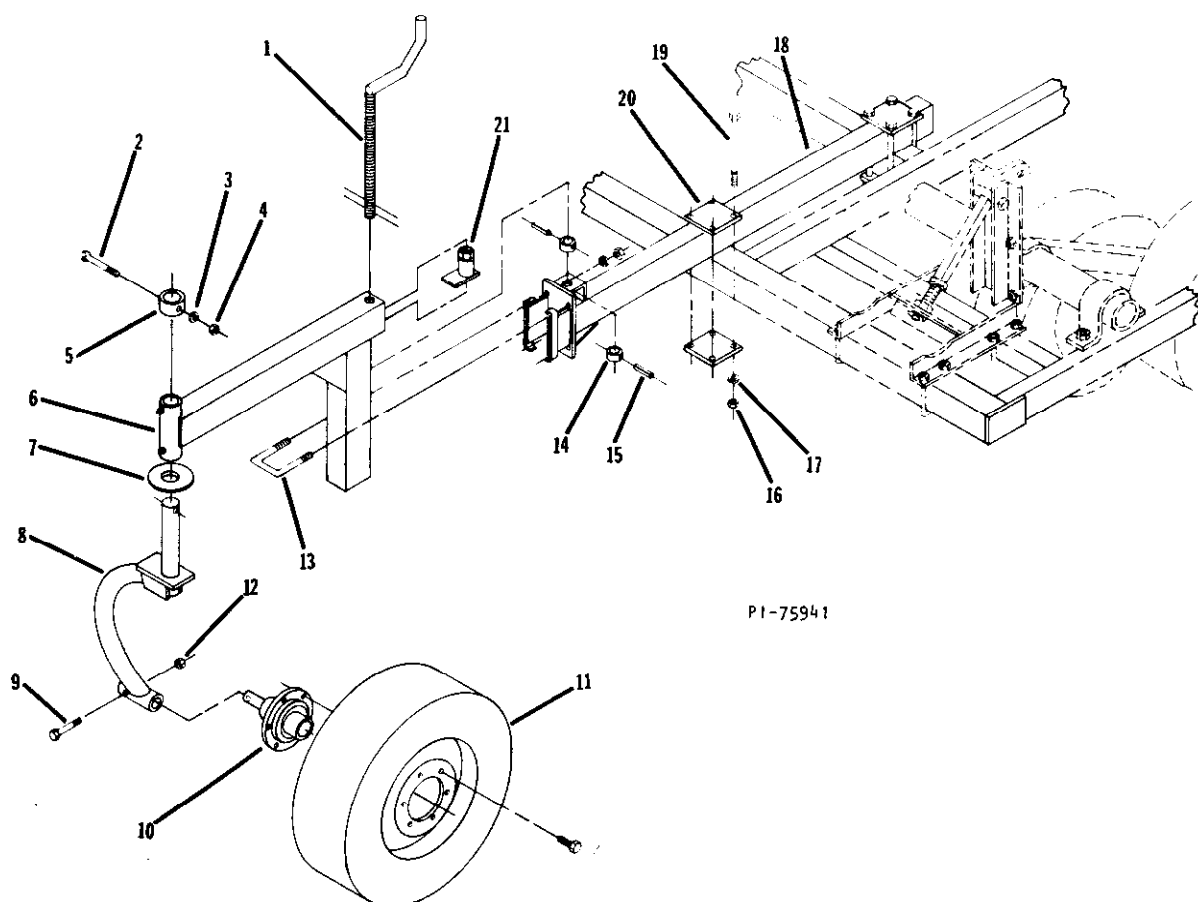
Item	Part No.	Description	Qty.
6	14131	2" Hub & Spindle Assembly	2
7	88429	Bolt, 1/2 NF x 3-1/4	2
8	12104	Bearing Cup	2
9	23733	Seal	1
10	88304	Lock Nut, 1/2 NF	2



2-1/2" WALKING TANDEM

Item	Part #	Description	Qty.
1	16080	3.875" OD Seal (Seals ID)	1
	23916	3.750" OD Seal (Seals OD)	1
2	16083	Bearing Cone Inner	1
3	88298	Bolt, 5/8 NC x 4 GR 5	2
4	20756	Walking Tandem Bearing Cup Assembly (Includes Items 5 & 12)	1
5	12104	Bearing Cup	1
6	12103	Bearing Cone	1

Item	Part #	Description	Qty.
7	12712	Walking Tandem Nut Assy	1
8	88133	Cotter Pin, 3/16 x 2	1
9	12206	Dust Cap	1
10	16154	2-1/2IN Hub & Spindle	2
11	88369	Lock Nut, 5/8 NC	2
12	16084	Bearing Cup Inner	1

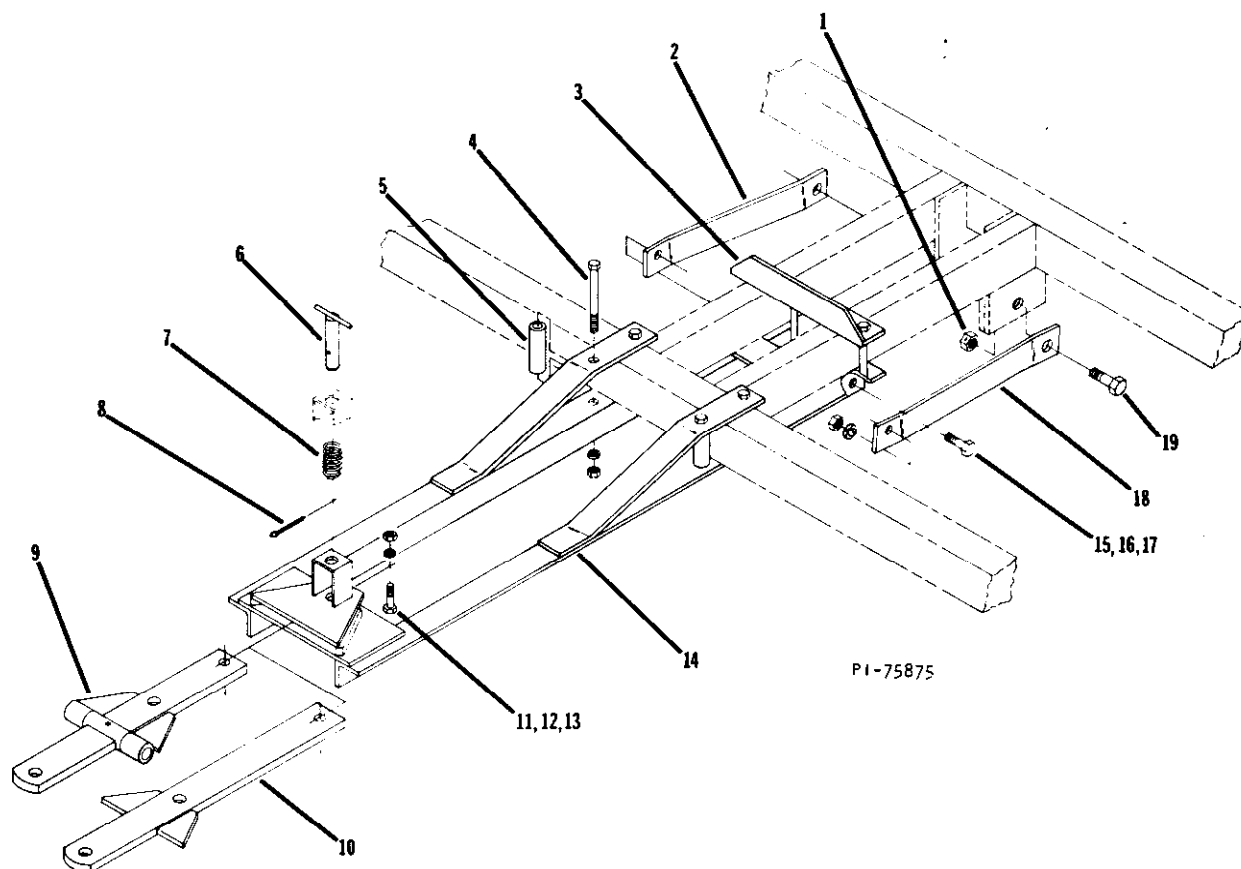


P1-75941

STABILIZER WHEEL ASSEMBLY

Item	Part No.	Description	Qty.
1	20587	Gaugewheel Crank	2
2	88412	Bolt, 3/8 NC x 3-1/2 GR 5	2
3	88362	Lock Washer, 3/8	2
4	88103	Nut, 3/8 NC	2
5	14189	Link Arm Collar	2
6	20997	Gaugewheel Leg	2
7	19262	Shim	2
8	16312	Caster Wheel Leg	2
9	88313	Bolt, 1/2 NF x 3 GR 5	2
10	41233	1-3/4" Hub & Spindle	2
11	13141	7:60 x 15 Tire Assembly	2
	11949	Tire, 7:60 x 15	2
	11956	Tube, 7:60 x 15	2
	10236	Rim, 15 x 6, 6 Bolt	2

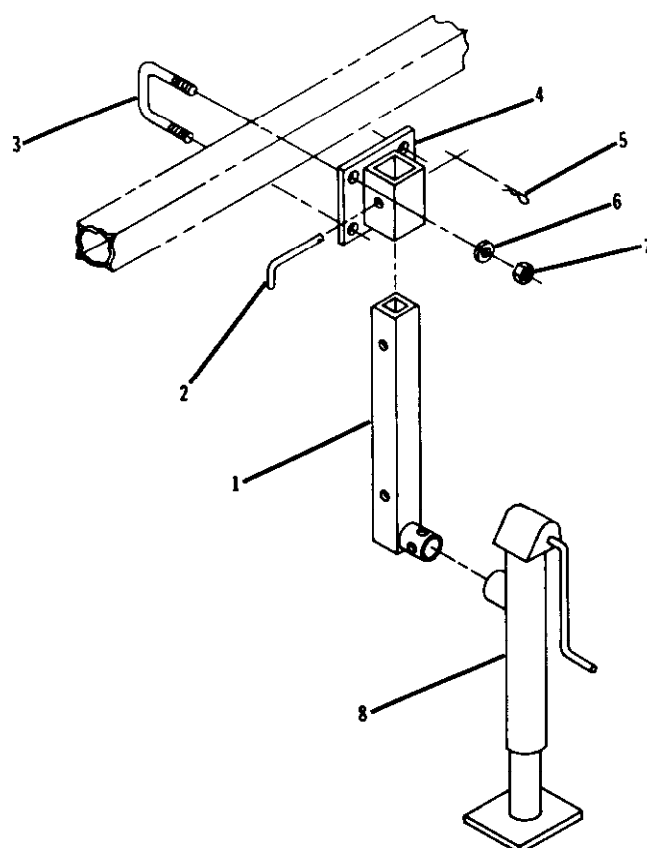
Item	Part No.	Description	Qty.
12	88304	Lock Nut, 1/2 NF	2
13	88503	U-Bolt, 5/8 NC x 3 x 5-1/4	4
14	20755	Crank Stop Collar	4
15	88415	1/4" Roll Pin	4
16	88126	Nut, 5/8 NC	24
17	88129	Lock Washer, 5/8	24
18	20585	Gaugewheel Arm	2
19	88477	Bolt, 5/8 NC x 10 GR 5	16
20	20741	Backing Plate	8
21	20717	Gaugewheel Nut Assy	2



AUXILIARY HITCH

Item	Part #	Description	Qty.
	21494	FC Auxiliary Hitch Solid Tongue	
	21495	FC Auxiliary Hitch Hinged Tongue	
1	88348	Lock Nut, 1 NC	2
2	21487	Left Aux. Hitch Strap	1
3	18436	Angle Clamp	1
4	88295	Bolt, 5/8 NC x 6 GR 5	7
5	21497	Spacer Tube	2
6	15922	Pin Assembly	1
7	15940	Spring	1
8	88101	Cotter Pin, 1/4 x 2-1/2	1
9	18443	Hinged Tongue Assy (Opt)	1
10	15918	Straight Tongue Assy	1

Item	Part #	Description	Qty.
11	88294	Bolt, 5/8 NC x 2 GR 5	1
12	88129	Lock Washer, 5/8	8
13	88126	Nut, 5/8 NC	8
14	18447	Hitch Frame Assembly	1
15	88290	Bolt, 3/4 NC x 2 GR 8	2
16	88130	Lock Washer, 3/4	2
17	88110	Nut, 3/4 NC	2
18	21486	Right Aux. Hitch Strap	1
19	88393	Bolt, 1 NC x 2-1/2 GR 5	2



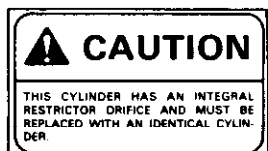
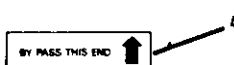
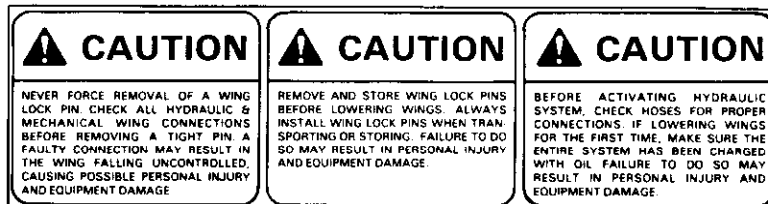
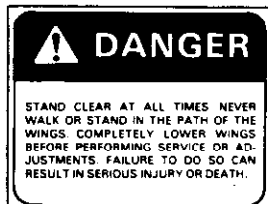
PI-75955

REAR JACK STAND

Item	Part #	Description	Qty.
	22726	Rear Jack Stand (Items 1-7)	
1	16292	Jack Leg	1
2	16306	Pin	1
3	88501	U-Bolt, 5/8 NC x 4 x 4-1/8	2
4	22724	Jack Base	1

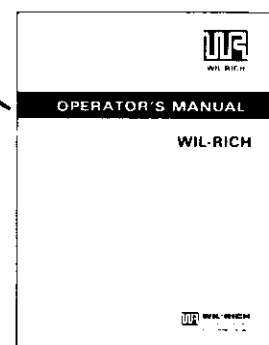
Item	Part #	Description	Qty.
5	23039	Hairpin Cotter	1
6	88129	Lock Washer, 5/8	4
7	88126	Nut, 5/8 NC	4
8	12796	Pole Jack (Order Separately)	1

WIL-RICH



3400

8



PI-76108

DECALS

Item	Part #	Description	Qty.
1	18298	Wil-Rich Logo Decals	
	18299	3/4 x 9	
	18299	1-1/8 x 13	
	18300	1-3/4 x 20	
2	20376	Danger Decal	
3	20375	Main Pole Caution Decal	

Item	Part #	Description	Qty.
4	20339	Bypass Decal	
5	20121	Integral Restrictor Decal	
6	20119	Screw Stop Adjust Decal	
7	74975	3400 Operator's Manual	
8	42697	3400 Die Cut Decal	3