



WIL-RICH

3400 3-SECTION FIELD CULTIVATOR PARTS BOOK

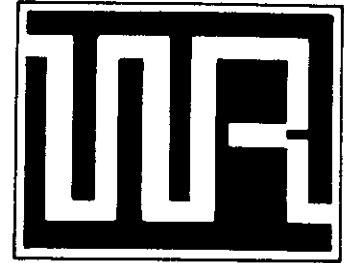


WIL-RICH

FARM EQUIPMENT DIVISION
LEAR SIEGLER, INC.



WIL-RICH
FARM EQUIPMENT DIV.
LEAR SIEGLER, INC.



CONTENTS

3400 3 SECTION CULTIVATORS

10' Main Frame.....	1
13' & 17' Main Frame.....	2 & 3
5-1/2' Wing.....	4
6-1/2' Wing.....	5
8' & 10' Wing.....	6
1' & 2-1/2' Rigid Wings.....	7
3-1/2' Wing.....	8
4' Wing.....	9
Wing Locks.....	10
Main Frame Hydraulics.....	11
3410 Single Wing Hydraulics.....	12
3410 Dual Wing Hydraulics.....	13
3430 - 3470 Single Wing Hydraulics.....	14
3430 - 3470 Dual Wing Hydraulics.....	15

CYLINDERS

4 X 8 Top Bypass.....	16
4 X 6.88 Top Bypass.....	17
3 x 24 Standard.....	18
3-1/2 x 24 Standard.....	19
4 x 24 Standard.....	20

COMPONENTS

Shank Assembly.....	21
Twin Spring Shank Assembly.....	22
Shovels & Spikes.....	23
1-3/4" Hub & Spindle.....	24
2" Hub & Spindle.....	25
1-3/4" Walking Tandem.....	26
2" Walking Tandem.....	27
Stabilizer Wheel Assembly.....	28
Auxiliary Hitch.....	29
Rear Jack Stand.....	30
Decals.....	31

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, ETC.). Consecutive suffix letters would be used if more than one page is to be added to one location (23A, 23B, 23C 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 received. Failure to do so will lead to confusion and defeat the purpose of the book.

SERIAL NUMBER

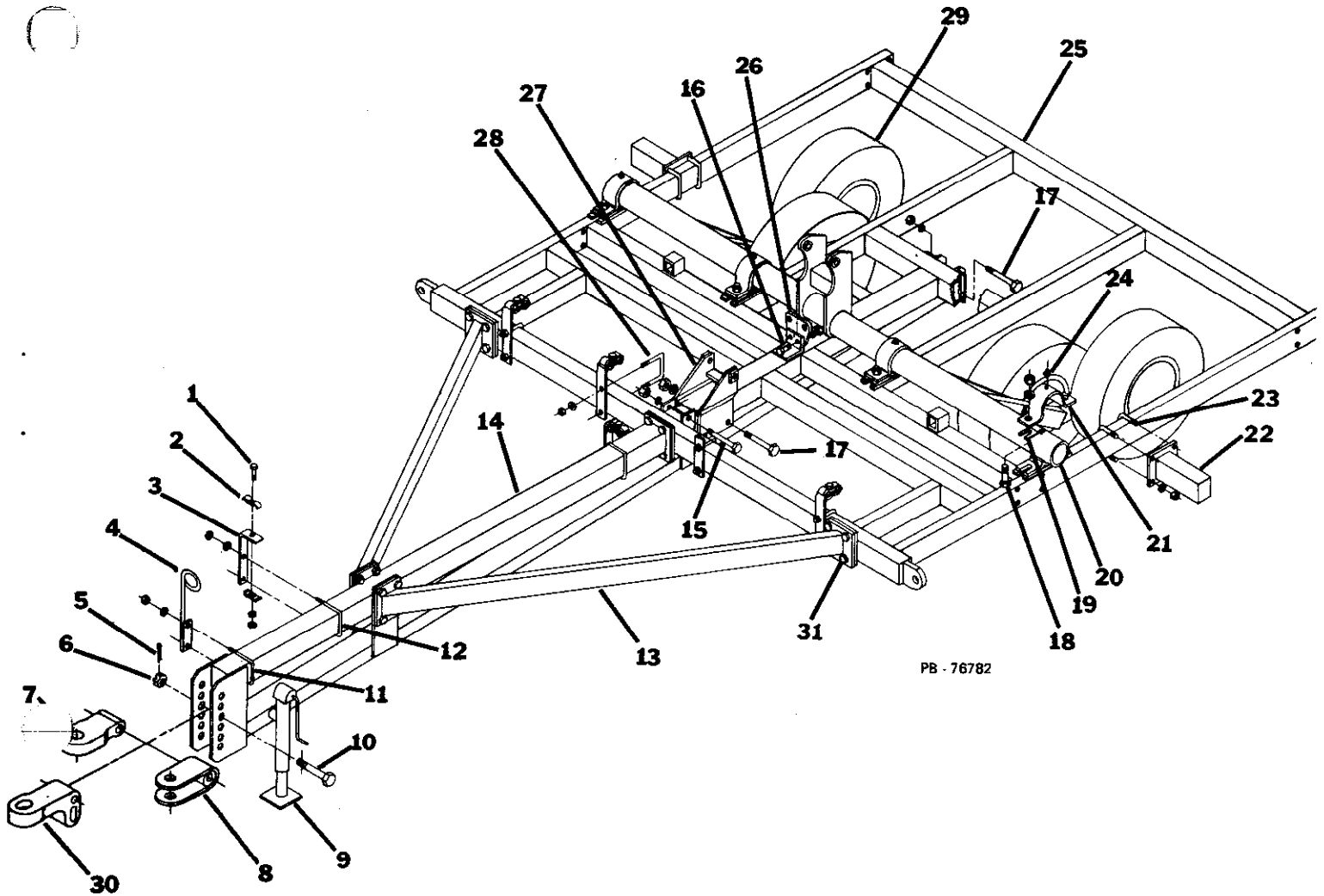
BREAK EXPLANATION

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

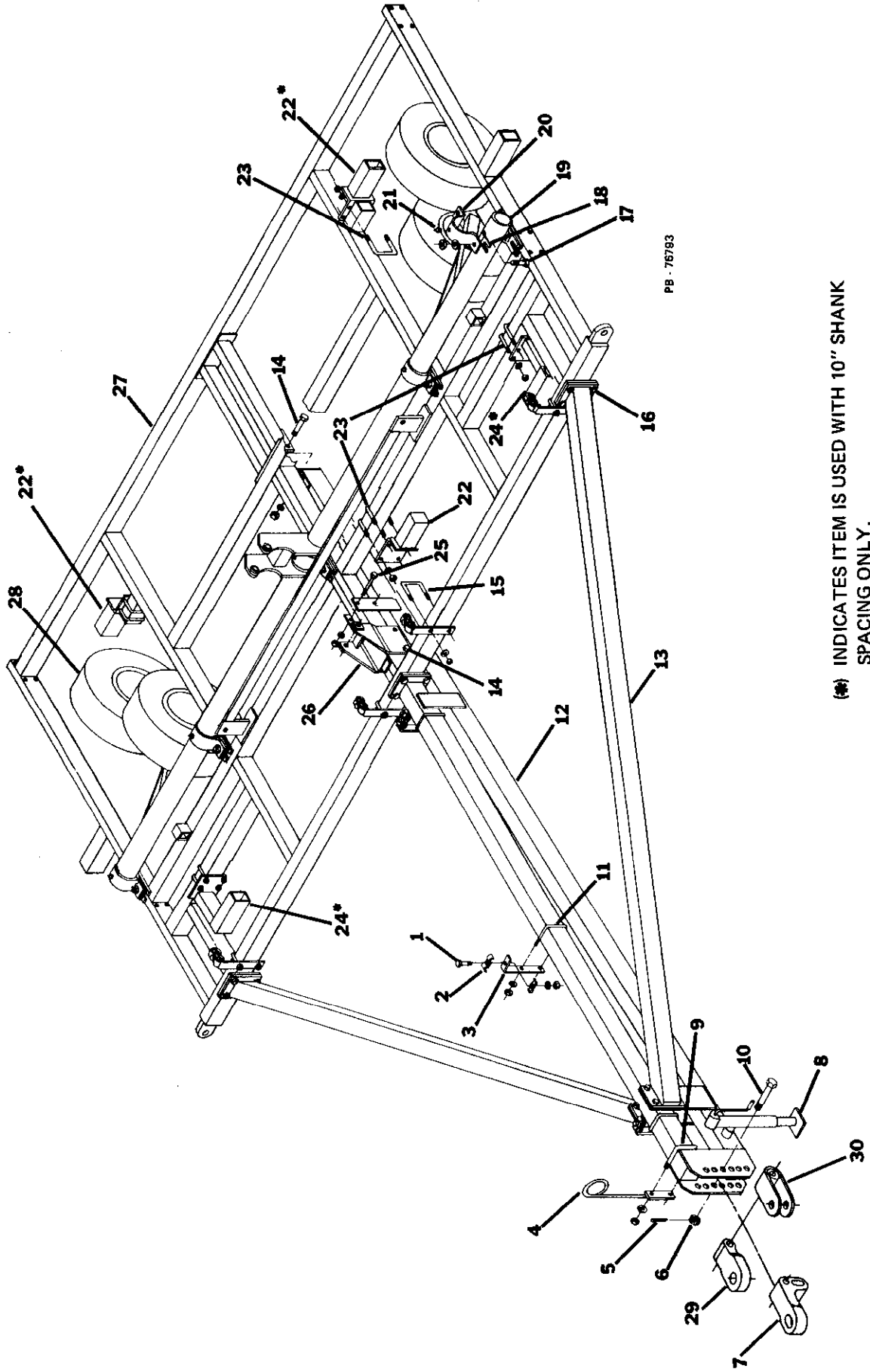
10' MAIN FRAME



ITEM	P/N	DESCRIPTION
1	88157	BOLT, 3/8NC X 1 GR 2
2	13215	TUBE CLAMP
3	13270	POLE TUBE BRACKET
4	12724	HOSE BRACKET
5	88133	COTTER PIN, 3/16 X 2
6	88350	SLOTTED NUT, 1-1/4NC
7	18237	CAST HITCH
8	11364	CLEVIS HITCH
9	12796	POLE JACK
10	11638	HITCH BOLT
11	88145	U-BOLT, 5/8NC X 4 X 5-1/4
12	88385	U-BOLT, 3/8NC X 4 X 4-3/4
13	26579	3410 3-SECTION POLE BRACE
14	11426	13 FCW MAIN POLE
15	88295	BOLT, 5/8NC X 6 GR 5
16	88404	BOLT, 3/4NC X 2-1/2 GR 5
17	88293	BOLT, 3/4NC X 6 GR 5
18	88495	BOLT, 7/8NC X 2-1/2 GR 5
19	10176	SPACER

ITEM	P/N	DESCRIPTION
20	26580	3410 3-SECTION MAIN AXLE SEE WALKING TANDEM ASSEMBLY PAGE 27
21	10399	AXLE CAP
22	26845	10" STUB
23	88388	U-BOLT, 5/8NC X 4 X 3-1/4
24	88263	GREASE FITTING, 1/8NPT
25	26578	3410 3-SECTION MAIN FRAME
26	26492	CYLINDER ANCHOR (WING FOLD)
27	26197	CYLINDER ANCHOR
28	88514	U-BOLT, 3/8NC X 4 X 3-3/4
29	13141	WHEEL ASSEMBLY 7:60 X 15 6 BOLT 6"
	13142	WHEEL ASSEMBLY 95L X 15 6BOLT 6" 6PLY BWHT
	10236	WHEEL RIM 15 X 6 6 BOLT BWHT
	11950	95L X 15 TIRE 6PLY
	11949	7:60 X 15 TIRE 6 PLY
	11956	TUBE 760/95L X 15 M15
	18288	RIM HOLE BUSHING
30	18236	CAST DUAL HITCH
31	88290	BOLT, 5/8NC X 2 GR 8

13' & 17' MAIN FRAMES



PB - 76783

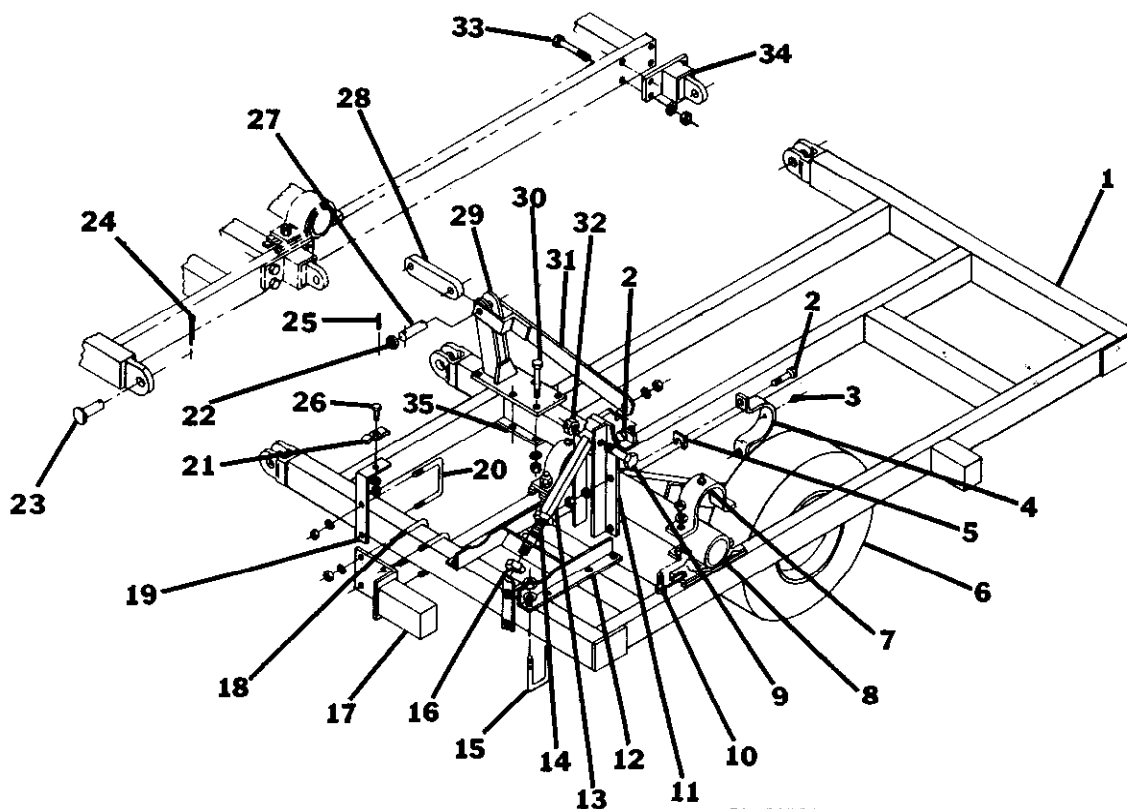
(*) INDICATES ITEM IS USED WITH 10" SHANK SPACING ONLY.

13' & 17' MAIN FRAMES

ITEM	P/N	DESCRIPTION
1	88157	BOLT, 3/8NC X 1 GR 2
2	13215	TUBE CLAMP
3	13270	POLE TUBE BRACKET
4	12724	HOSE BRACKET
5	88133	COTTER PIN, 3/16 X 2
6	88350	SLOTTED NUT, 1-1/4NC
7	18237	CAST HITCH
8	12796	POLE JACK
9	88145	U-BOLT, 5/8NC X 4 X 5-1/4
10	11638	HITCH BOLT
11	88385	U-BOLT, 3/8NC X 4 X 4-3/4
12	19888	FCW MAIN POLE
13	26179	3430 3-SECTION POLE BRACE (13')
	26852	3470 3-SECTION POLE BRACE (17')
14	88293	BOLT, 3/4NC X 6 GR 5
15	88514	U-BOLT, 3/8NC X 4 X 3-3/4
16	88290	BOLT, 3/4NC X 2 GR 8
17	88495	BOLT, 7/8NC X 2-1/2 GR 5
18	10176	SPACER
19	26171	3430 3-SECTION MAIN AXLE ASSEMBLY (13')
	26906	3470 3-SECTION MAIN AXLE ASSEMBLY (17')
SEE WALKING TANDEM ASSEMBLY PAGE 27		

ITEM	P/N	DESCRIPTION
20	10399	AXLE CAP
21	88263	GREASE FITTING, 1/8NPT
22	23806	8" STUB ASSEMBLY (10" SPACING ONLY)
23	88501	U-BOLT, 5/8NC X 4 X 4-1/8
24	23807	SHANK BRACKET
25	88295	BOLT, 5/8NC X 6 GR 5
26	26197	CYLINDER ANCHOR
27	26172	3430 3-SECTION MAIN FRAME (13')
	26860	3470 3-SECTION MAIN FRAME (17')
28	13142	WHEEL ASSEMBLY 95L X 15 6BOLT 6"
	13141	WHEEL ASSEMBLY 7:60 X 15 6BOLT 6" 6PLY BWHT
	10236	WHEEL RIM 15 X 6 BWHT
	11949	7:60 X 15 TIRE 6 PLY
	11950	95L X 15 TIRE 6 PLY
	11956	TUBE 760/95L X 15 M15
	18288	RIM HOLE BUSHING
29	18237	CAST HITCH
30	11364	CLEVIS HITCH

5-1/2' WING

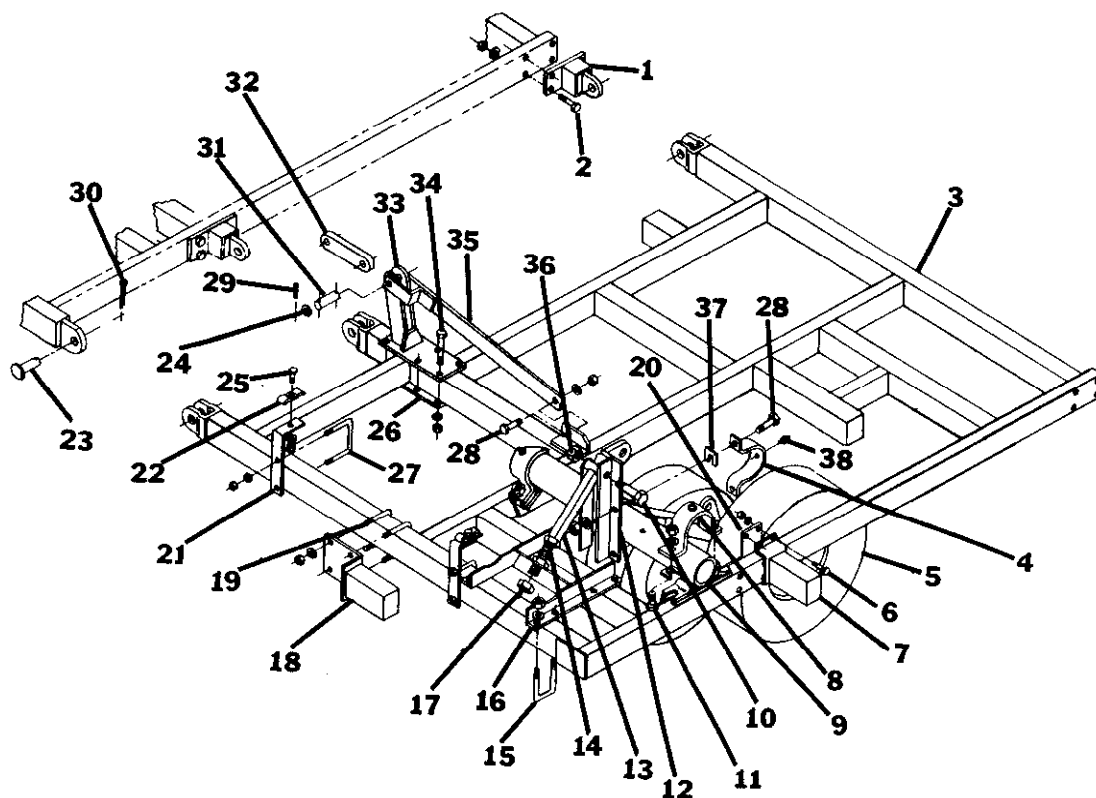


PI - 76784

ITEM	P/N	DESCRIPTION
1	26620	LEFT 5-1/2' 3400 3-SECTION WING (SHOWN)
	26621	RIGHT 5-1/2' 3400 3-SECTION WING
2	88290	BOLT, 3/4NC X 2 GR 8
3	88263	GREASE FITTING, 1/8NPT
4	19650	2" AXLE CAP
5	10176	SPACER
6	13142	WHEEL ASSEMBLY, 95L X 15 6BOLT 6" 6PLY BWHT
	10236	WHEEL RIM 15 X 6 BWHT
	11950	95L X 15 TIRE 6PLY
	11956	TUBE 760/95L X 15 M15
	18288	RIM HOLE BUSHING
	11605	1-3/4" HUB & SPINDLE
7	10399	AXLE CAP
8	22712	RIGHT SINGLE WING AXLE
	22713	LEFT SINGLE WING AXLE
9	88305	BOLT, 3/4NC X 5 GR 5
10	88495	BOLT, 7/8NC X 2-1/2 GR 5
11	19649	ANCHOR ASSEMBLY
12	20840	WING ANCHOR REST
13	26178	ADJUSTMENT TUBE

ITEM	P/N	DESCRIPTION
14	19893	ADJUSTMENT ROD
15	88503	U-BOLT, 5/8NC X 3 X 5-1/4
16	88125	NUT, 1NC
17	23806	8" STUB ASSEMBLY (10" SPACING ONLY)
18	88501	U-BOLT, 5/8NC X 4 X 4-1/8
19	13270	POLE TUBE BRACKET
20	88514	U-BOLT, 3/8NC X 4 X 3-3/4
21	13215	TUBE CLAMP
22	88196	FLAT WASHER, 1"
23	26964	CLIPPED HINGE PIN
24	88101	COTTER PIN, 1/4 X 2-1/2
25	88432	ROLL PIN, 5/16 X 2
26	88157	BOLT, 3/8NC X 1 GR 2
27	14404	WING LINK PIN
28	14374	HYDRAULIC WING LIFT LINK
29	26182	WING LIFT BRACKET
30	88295	BOLT, 5/8NC X 6 GR 5
31	26626	5-1/2' 3400 WING LIFT STRAP
32	88356	LOCKNUT, 3/4NC
33	88292	BOLT, 5/8NC X 3-1/2 GR 5
34	20635	WING HINGE ASSEMBLY
35	26183	PLATE

6-1/2' WING

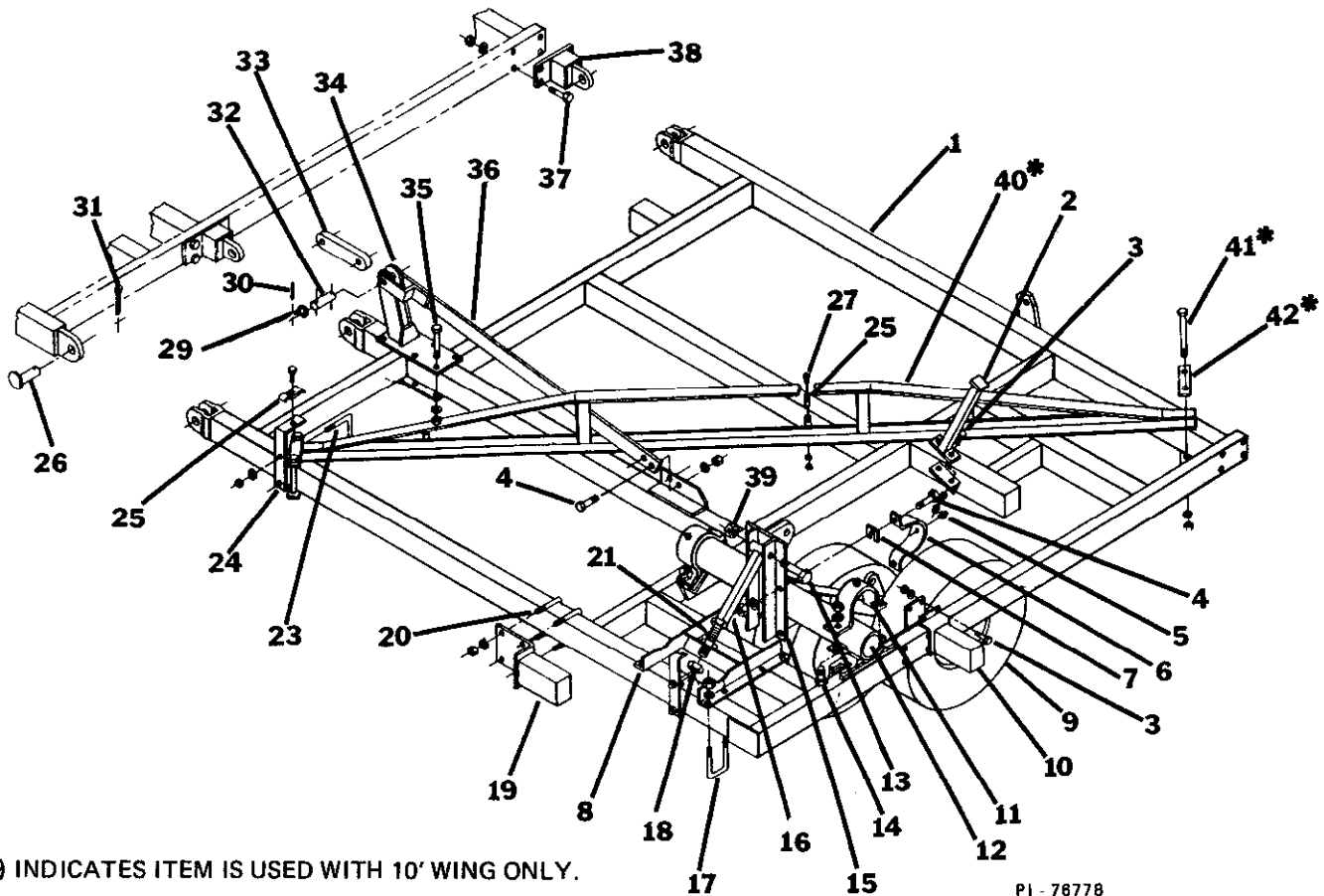


PI - 76776

ITEM	P/N	DESCRIPTION
1	20635	WING HINGE ASSEMBLY
2	88292	BOLT, 5/8NC X 3-1/2 GR 5
3	26294	LEFT 6-1/2' 3400 3-SECTION WING (SHOWN)
	26295	RIGHT 6-1/2' 3400 3-SECTION WING
4	19650	2" AXLE CAP
5	13142	WHEEL ASSEMBLY 95L X 15 6BOLT 6" 6PLY BWHT
	10236	WHEEL RIM 15 X 6 BWHT
	11950	95L X 15 TIRE 6PLY
	11956	TUBE 760/95L X 15 M15
	18288	RIM HOLE BUSHING
6	88106	BOLT, 1/2NC X 1-1/2 GR 2
7	26815	8" 3 X 4 SADDLE STUB
8	10399	AXLE CAP
9	19895	TANDEM TBP WING AXLE ASSEMBLY (LEFT SHOWN)
	19896	TANDEM TBP WING AXLE ASSEMBLY (RIGHT)
	SEE WALKING TANDEM ASSEMBLY PAGE 26	
10	88305	BOLT, 3/4NC X 5 GR 5
11	88495	BOLT, 7/8NC X 2-1/2 GR 5
12	19649	ANCHOR ASSEMBLY
13	26178	ADJUSTMENT TUBE
14	19893	ADJUSTMENT ROD

ITEM	P/N	DESCRIPTION
15	88503	U-BOLT, 5/8NC X 3 X 5-1/4
16	20840	WING ANCHOR REST
17	88125	NUT, 1NC
18	23806	8" STUB ASSEMBLY
19	88501	U-BOLT, 5/8NC X 4 X 4-1/8
20	26817	BACKING PLATE
21	13270	POLE TUBE BRACKET
22	13215	TUBE CLAMP
23	26964	CLIPPED HINGE PIN
24	88196	FLAT WASHER, 1"
25	88157	BOLT, 3/8NC X 1 GR 2
26	26183	PLATE
27	88514	U-BOLT, 3/8NC X 4 X 3-3/4
28	88290	BOLT, 3/4NC X 2 GR 8
29	88432	ROLL PIN, 5/16 X 2
30	88101	COTTER PIN, 1/4 X 2-1/2
31	14404	WING LINK PIN
32	14374	HYDRAULIC WING LIFT LINK
33	26182	WING LIFT BRACKET
34	88295	BOLT, 5/8NC X 6 GR 5
35	27031	6-1/2' 3400 WING LIFT STRAP
36	88356	LOCK NUT, 3/4NC
37	10176	SPACER
38	88263	GREASE FITTING, 1/8NPT

8' & 10' WING



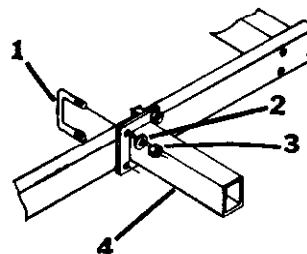
(*) INDICATES ITEM IS USED WITH 10' WING ONLY.

PI - 78778

ITEM	P/N	DESCRIPTION
1	26216	LEFT 10' 3400 3-SECTION WING SHOWN
	26217	RIGHT 10' 3400 3-SECTION WING
	26900	LEFT 8' 3400 3-SECTION WING
	26901	RIGHT 8' 3400 3-SECTION WING
2	26445	WING REST
3	88106	BOLT, 1/2NC X 1-1/2 GR 2
4	88290	BOLT, 3/4NC X 2 GR 8
5	88263	GREASE FITTING 1/8NPT
6	19650	2" AXLE CAP
7	10176	SPACER
8	20840	WING ANCHOR REST
9	13142	WHEEL ASSEMBLY, 95L X 15 6BOLT 6"
		6PLY BWHT
	10236	WHEEL RIM 15 X 6 BWHT
	11950	95L X 15 TIRE 6PLY
	11956	TUBE 760/95L X 15 M15
	18288	RIM HOLE BUSHING
10	26815	8" 3 X 4 SADDLE STUB
11	10399	AXLE CAP
12	19895	TANDEM TBP AXLE ASSEMBLY LEFT (SHOWN)
	19896	TANDEM TBP AXLE ASSEMBLY RIGHT
		SEE WALKING TANDEM ASSEMBLY PAGE 26
13	88305	BOLT, 3/4NC X 5 GR 5
14	88495	BOLT, 7/8NC X 2-1/2 GR 5
15	19649	ANCHOR ASSEMBLY
16	26178	ADJUSTMENT TUBE
17	88503	U-BOLT, 5/8NC X 3 X 5-1/4

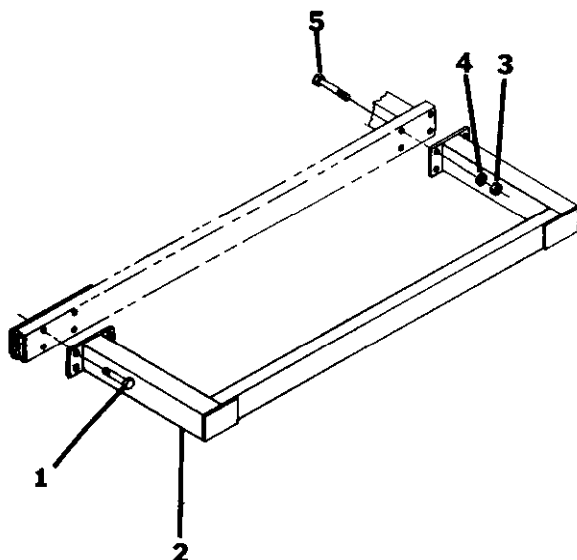
ITEM	P/N	DESCRIPTION
18	88125	NUT, 1NC
19	23806	8" STUB ASSEMBLY
20	88501	U-BOLT, 5/8NC X 4 X 4-1/8
21	19893	ADJUSTMENT ROD
22	26817	BACKING PLATE
23	88514	U-BOLT, 3/8NC X 4 X 3-3/4
24	13270	POLE TUBE BRACKET
25	13215	TUBE CLAMP
26	26964	CLIPPED HINGE PIN
27	88157	BOLT, 3/8NC X 1 GR 2
28	26183	PLATE
29	88196	FLAT WASHER, 1"
30	88432	ROLL PIN, 5/16 X 2
31	88101	COTTER PIN, 1/4 X 2-1/2
32	14404	WING LINK PIN
33	14374	HYDRAULIC WING LIFT LINK
34	26182	WING LIFT BRACKET
35	88295	BOLT, 5/8NC X 6 GR 5
36	12612	12' WING BRACE ARM ASSEMBLY (10' WING SHOWN)
	26358	WING LIFT ARM (8' WING)
37	88292	BOLT, 5/8NC X 3-1/2 GR 5
38	20635	WING HINGE ASSEMBLY
39	88356	LOCK NUT, 3/4NC
40	29294	10' 3-SECTION WING TRUSS
41	88557	BOLT, 5/8NC X 9 GR 5
42	29297	CLAMP PLATE

15" WING EXTENSION STUB



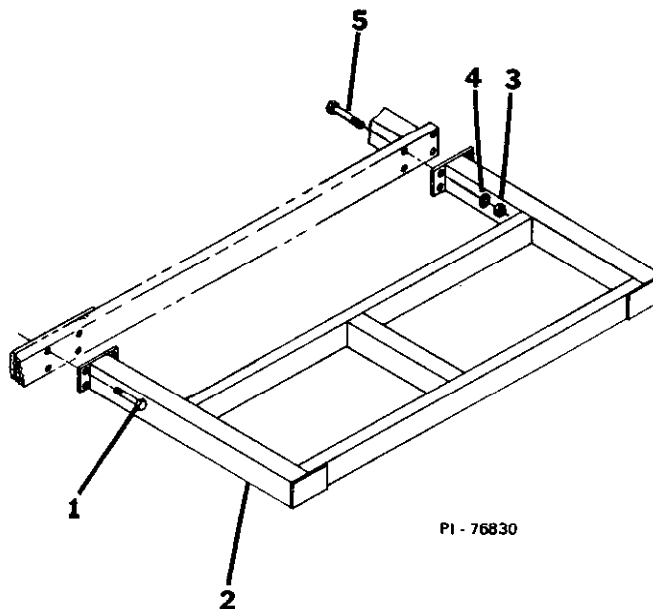
ITEM	P/N	DESCRIPTION
1	88388	U-BOLT, 5/8NC X 4 X 3-1/4
2	88129	LOCK WASHER, 5/8
3	88126	NUT, 5/8NC
4	21131	15" STUB ASSEMBLY

1' RIGID WING



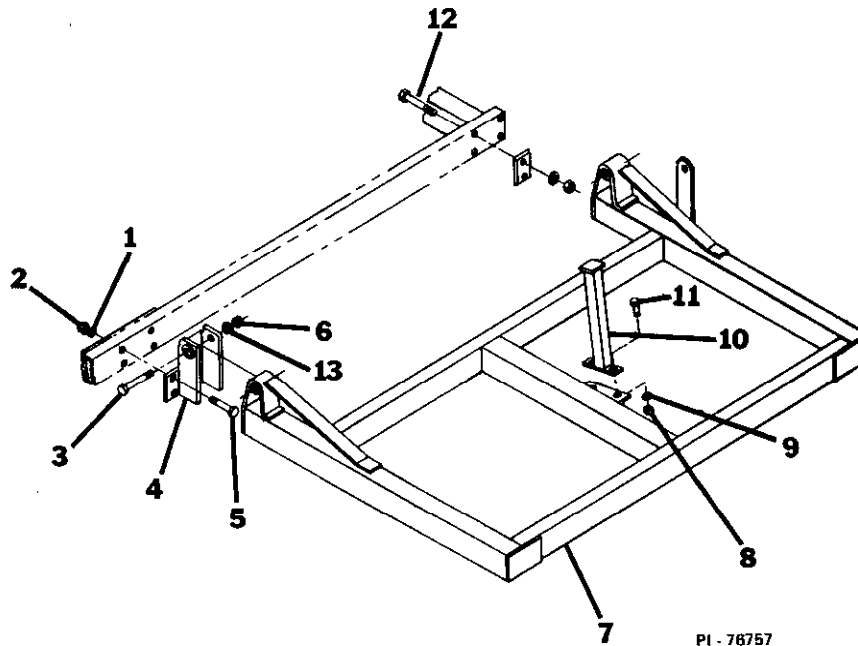
ITEM	P/N	DESCRIPTION
1	88298	BOLT, 5/8NC X 4 GR 5
2	26611	1' 3 X 4 RIGID WING
3	88126	NUT, 5/8NC
4	88129	LOCK WASHER, 5/8
5	88292	BOLT, 5/8NC X 3-1/2 GR 5

2-1/2' RIGID WING



ITEM	P/N	DESCRIPTION
1	88298	BOLT, 5/8NC X 4 GR 5
2	26612	2-1/2' 3 X 4 RIGID WING
3	88126	NUT, 5/8NC
4	88129	LOCK WASHER, 5/8
5	88292	BOLT, 5/8NC X 3-1/2 GR 5

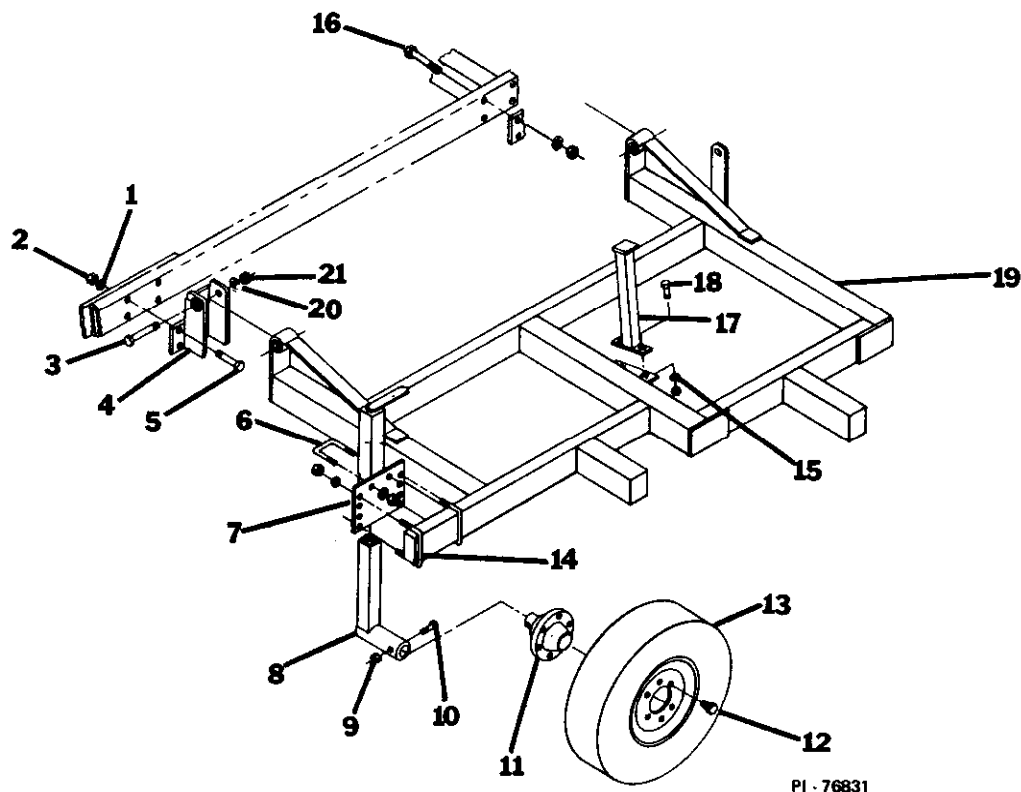
3-1/2' WING



ITEM	P/N	DESCRIPTION
1	88129	LOCK WASHER, 5/8
2	88126	NUT, 5/8NC
3	88670	BOLT, 1NC X 5-1/2 GR 5
4	26201	WING HINGE ASSEMBLY
5	88298	BOLT, 5/8NC X 4 GR 5
6	88125	NUT, 1NC
7	26210	LEFT 3-1/2' 3400 STUB WING (SHOWN)
	26211	RIGHT 3-1/2' 3400 STUB WING

ITEM	P/N	DESCRIPTION
8	88104	NUT, 1/2NC
9	88303	LOCKWASHER, 1/2
10	26445	WING REST (3 X 4 STUB WINGS)
11	88475	BOLT, 1/2NC X 1-1/2 GR 5
12	88292	BOLT, 5/8NC X 3-1/2 GR 5
13	88617	LOCK WASHER, 1"

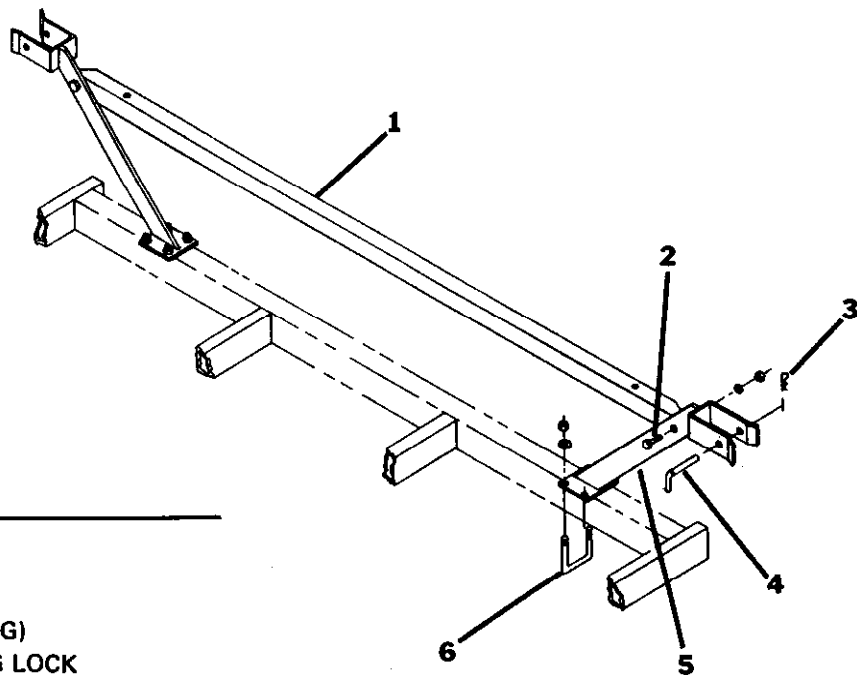
4' FLOATING WING



ITEM	P/N	DESCRIPTION
1	88129	LOCK WASHER, 5/8
2	88126	NUT, 5/8NC
3	88670	BOLT, 1NC X 5-1/2 GR 5
4	26201	WING HINGE ASSEMBLY
5	88298	BOLT, 5/8NC X 4 GR 5
6	88311	U-BOLT, 5/8NC X 2-1/2 X 3-3/4
7	15485	TOP ADJUSTMENT ASSEMBLY
8	26452	GAUGE WHEEL LEG
9	88304	LOCK NUT, 1/2NF
10	88313	BOLT, 1/2NF X 3 GR 5
11	11605	1-3/4" HUB & SPINDLE ASSEMBLY
12	88142	WHEEL BOLT, 1/2NF X 1
13	13141	WHEEL ASSEMBLY 7:60 X 15 6 BOLT 6"
		6PLY BWHT
	10236	WHEEL RIM 15 X 6 6BOLT BWHT
	11949	760 X 15 TIRE 6PLY
	11956	TUBE 760/95L X 15 M15
	18288	RIM HOLE BUSHING

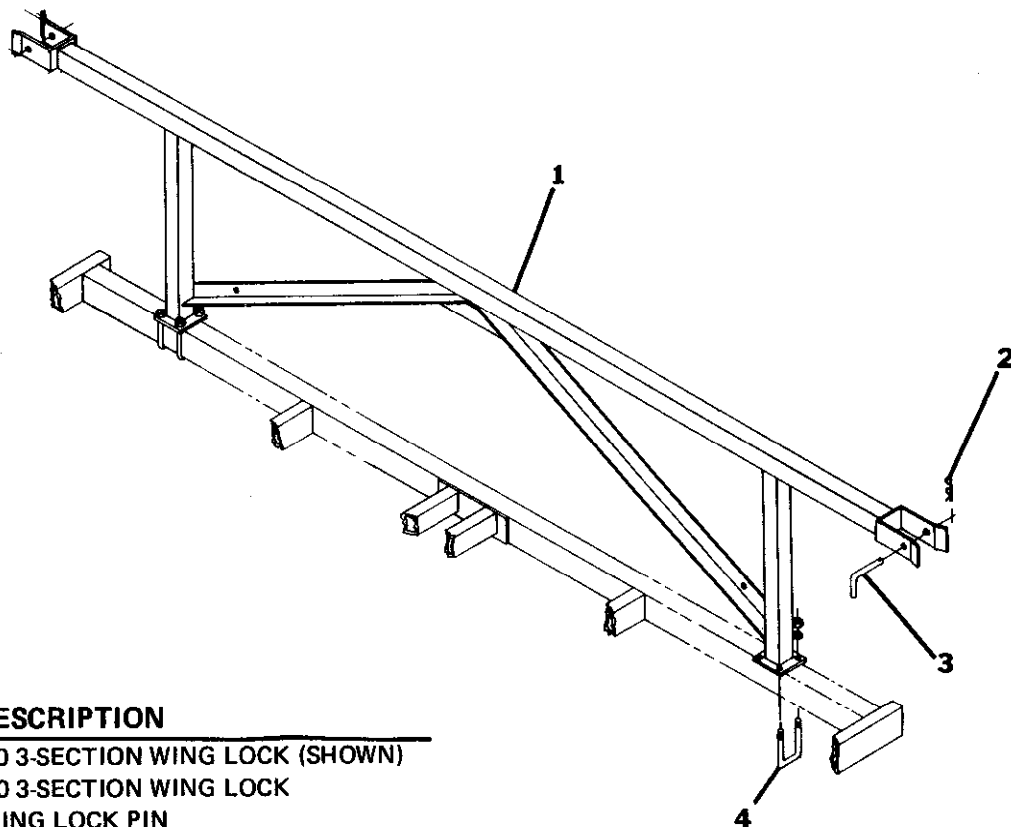
ITEM	P/N	DESCRIPTION
14	88388	U-BOLT, 5/8 X 4 X 3-1/4
15	88303	LOCKWASHER, 1/2
16	88292	BOLT, 5/8NC X 3-1/2 GR 5
17	26445	WING REST (3 X 4 STUB WINGS)
18	88475	BOLT, 1/2NC X 1-1/2 GR 5
19	26173	LEFT 4' 3400 FLOATING WING (SHOWN)
	26174	RIGHT 4' 3400 FLOATING WING
20	88617	LOCK WASHER, 1
21	88125	NUT, 1NC
22	88104	NUT, 1/2 NC

WING LOCKS



ITEM	P/N	DESCRIPTION
1	26589	WING LOCK ANGLE
2	88294	BOLT, 5/8NC X 2 GR 5
3	88137	SPRING LOCK PIN
4	11984	WING LOCK PIN (LONG)
5	26590	3400 3-SECTION WING LOCK
6	88503	U-BOLT, 5/8 X 3 X 5-1/4

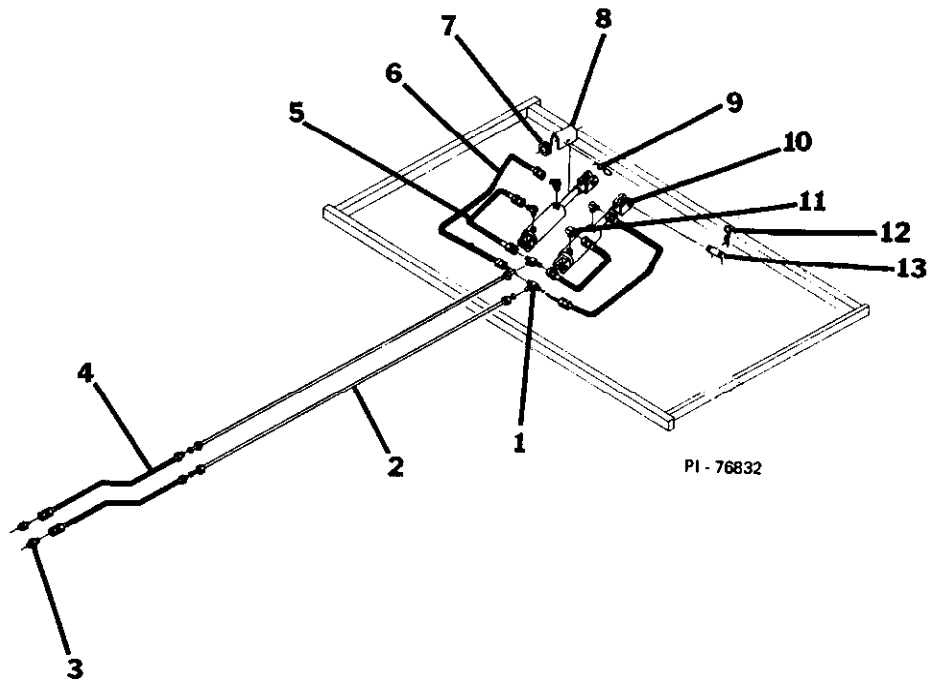
PI - 76786



ITEM	P/N	DESCRIPTION
1	26844	3470 3-SECTION WING LOCK (SHOWN)
	26193	3430 3-SECTION WING LOCK
2	88137	SPRING LOCK PIN
3	11984	WING LOCK PIN
4	88503	U-BOLT, 5/8 X 3 X 5-1/4

PI - 76788

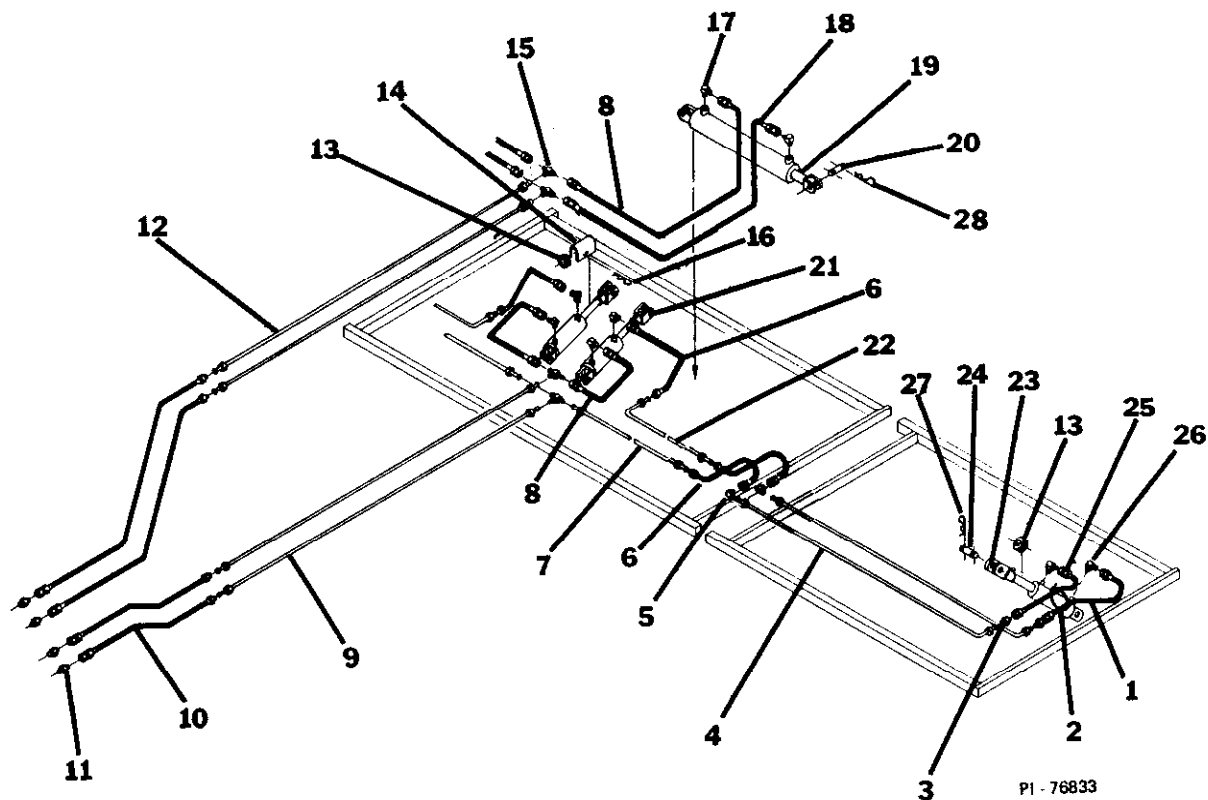
MAIN FRAME HYDRAULICS



ITEM	P/N	DESCRIPTION
1	13238	3/8 TUBE TEE
2	15699	86" 1/2 HYDRAULIC TUBE (10')
	13253	120" 1/2 HYDRAULIC TUBE (13' & 17')
3	13234	COUPLER TO HOSE UNION
4	13267	3/8 HYDRAULIC HOSE 72" M-F
5	14850	3/8 HYDRAULIC HOSE 18" F-F
6	13423	3/8 HYDRAULIC HOSE 24' F-F

ITEM	P/N	DESCRIPTION
7	15113	1-1/2" STOP COLLAR
8	13681	1-1/2" CYLINDER LOCK CHANNEL
9	88137	SPRING LOCK PIN 3/16 X 3-3/4
10	14523	CYLINDER, 4 X 8 WITH TOP BYPASS
11	13236	1/2 CYLINDER PORT ELBOW
12	18068	CYLINDER PIN
13	88318	SPRING LOCK PIN 1/4 X 4-3/4

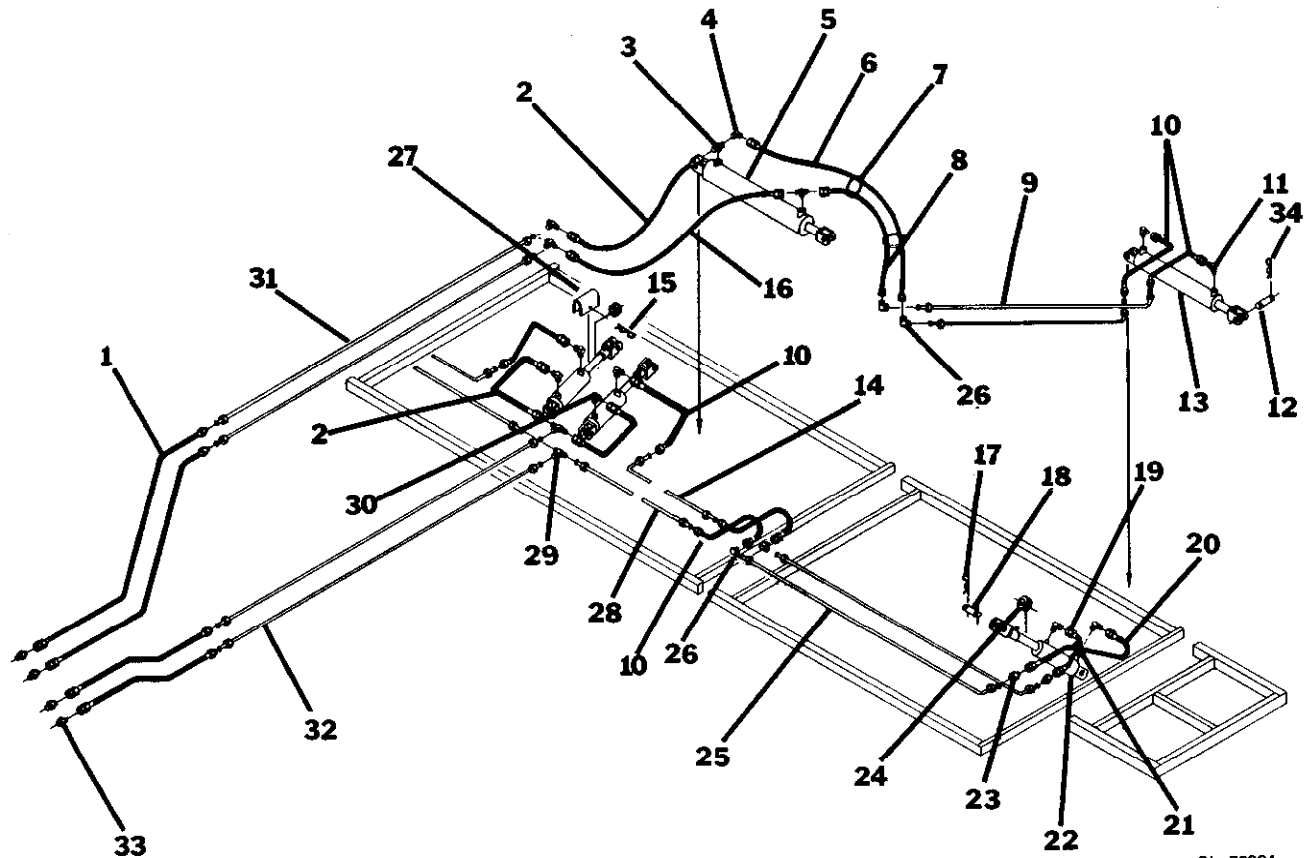
3410 SINGLE WING HYDRAULICS



ITEM	P/N	DESCRIPTION
1	13264	3/8 HYDRAULIC HOSE 48" M-F
2	13478	2-1/2" SQUARE TIE LOOP
3	13239	HOSE UNION
4	21021	36" + 2", 1/2 HYDRAULIC TUBE (5-1/2')
	20465	48" + 2", 1/2 HYDRAULIC TUBE (6-1/2')
	13258	60" + 2", 1/2 HYDRAULIC TUBE (8')
5	40215	ELBOW, 3/4 JIC
6	13260	3/8 HYDRAULIC HOSE 24" M-F
7	20465	48" 1/2 HYDRAULIC TUBE
8	14850	3/8 HYDRAULIC HOSE 18" F-F
9	15699	86" 1/2 HYDRAULIC TUBE
10	13267	3/8 HYDRAULIC HOSE 72" M-F
11	13234	COUPLER TO HOSE UNION
12	13255	110" 1/2 HYDRAULIC TUBE
13	15113	1-1/2" STOP COLLAR
14	13681	1-1/2" CYLINDER LOCK CHANNEL

ITEM	P/N	DESCRIPTION
15	13238	3/8 TUBE TEE
16	88137	SPRING LOCK PIN 3/16 X 3-3/4
17	13235	3/8 HYDRAULIC CYLINDER PORT ELBOW
18	14644	3/8 HYDRAULIC HOSE 36" F-F
19	11491	CYLINDER 3-1/2 X 24 (5-1/2')
	11490	CYLINDER, 4 X 24 (6-1/2' & 8')
20	11930	CYLINDER PIN
21	14523	CYLINDER, 4 X 8 WITH TOP BYPASS
22	21021	36" + 2, 1/2 HYDRAULIC TUBE
23	19659	CYLINDER, 4 X 6.88 WITH TOP BYPASS
24	18068	CYLINDER PIN (1" X 3-1/8")
25	14851	3/8 HYDRAULIC HOSE 42" F-F
26	13236	1/2 CYLINDER PORT ELBOW
27	88318	SPRING LOCK PIN 1/4 X 4-3/4
28	88352	SPRING LOCK PIN 3/16 X 3-1/4

3410 DUAL WING HYDRAULICS

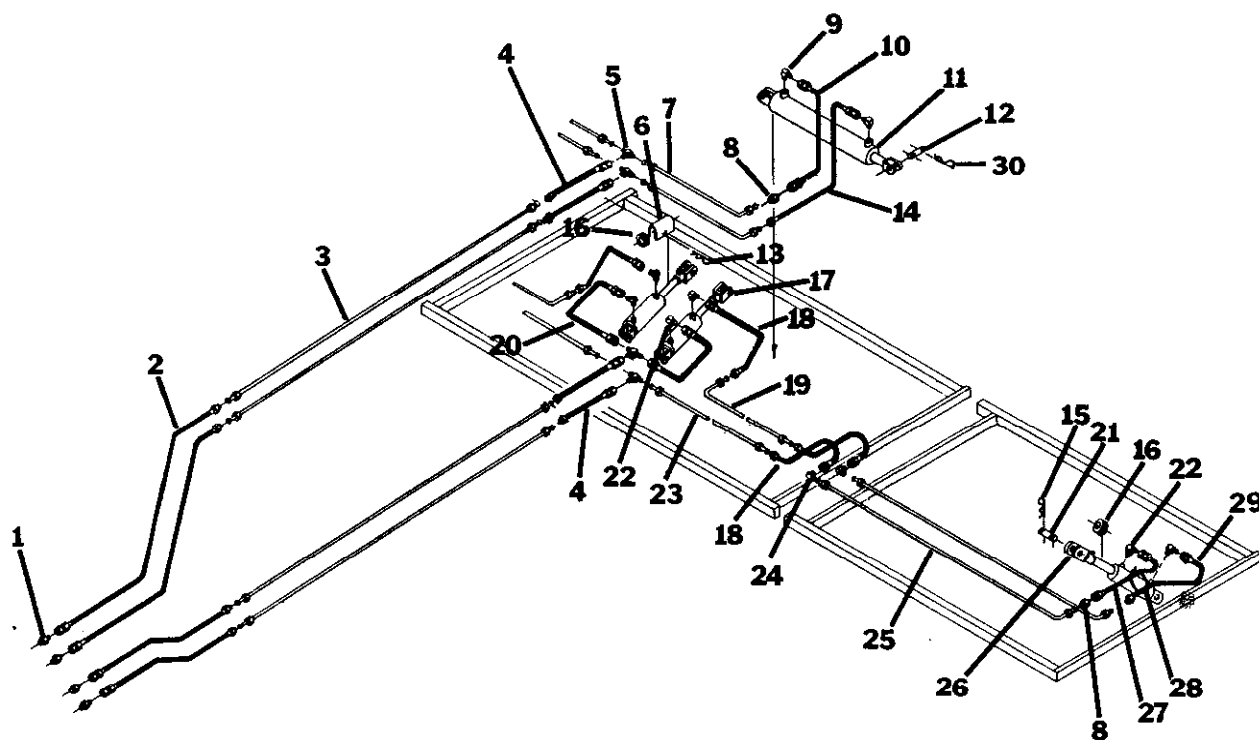


PI - 76834

ITEM	P/N	DESCRIPTION
1	13267	3/8 HYDRAULIC HOSE 72" M-F
2	14850	3/8 HYDRAULIC HOSE 18" F-F
3	13237	3/8 CYLINDER PORT TEE
4	25591	3/4 JIC M-F SWIVEL ELBOW
5	11490	CYLINDER, 4 X 24
6	13268	3/8 HYDRAULIC HOSE 78" F-F
7	13479	4" SQUARE TIE LOOP
8	13265	3/8 HYDRAULIC HOSE 56" F-F
9	21084	82" + 2", 1/2 HYDRAULIC TUBE
10	13260	3/8 HYDRAULIC HOSE 24" M-F
11	13235	3/8 HYDRAULIC CYLINDER PORT ELBOW
12	11930	CYLINDER PIN
13	11614	CYLINDER, 3 X 24
14	21021	36" + 2", 1/2 HYDRAULIC TUBE
15	88137	SPRING LOCK PIN 3/16 X 3-3/4
16	14644	3/8 HYDRAULIC HOSE 36" F-F

ITEM	P/N	DESCRIPTION
17	88318	SPRING LOCK PIN 1/4 X 4-3/4
18	18068	CYLINDER PIN (1" X 3-1/8")
19	14851	3/8 HYDRAULIC HOSE 42" F-F
20	13264	3/8 HYDRAULIC HOSE 48" M-F
21	13478	2-1/2" SQUARE TIE LOOP
22	19659	CYLINDER 4 X 6.88 WITH TOP BYPASS
23	13239	HOSE UNION
24	15113	1-1/2" STOP COLLAR
25	13258	60" + 2", 1/2 HYDRAULIC TUBE
26	40215	ELBOW, 3/4 JIC
27	13681	1-1/2" CYLINDER LOCK CHANNEL
28	20465	48", 1/2 HYDRAULIC TUBE
29	13238	3/8 TUBE TEE
30	13236	1/2 CYLINDER PORT ELBOW
31	13255	110", 1/2 HYDRAULIC TUBE
32	15699	86" 1/2 HYDRAULIC TUBE
33	13234	COUPLER TO HOSE UNION
34	88352	SPRING LOCK PIN 3/16 X 3-1/4

3430 & 3470 SINGLE WING HYDRAULICS

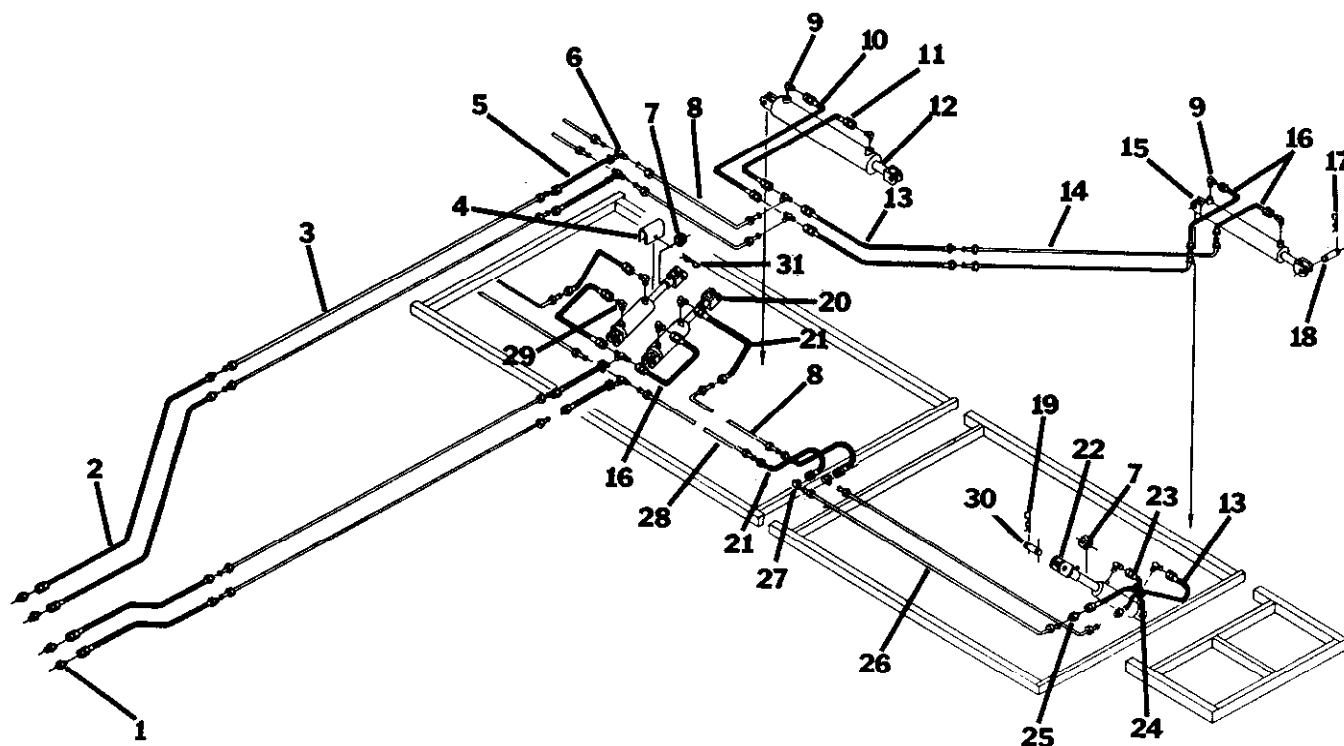


PI - 76835

ITEM	P/N	DESCRIPTION
1	13234	COUPLER TO HOSE UNION
2	13267	3/8 HYDRAULIC HOSE 72" M-F
3	13253	120" 1/2 HYDRAULIC TUBE
4	13262	3/8 HYDRAULIC HOSE 30" M-F (AIR SEEDER ONLY)
5	13238	3/8 TUBE TEE
6	13681	1-1/2" CYLINDER LOCK CHANNEL
7	13258	60" + 2, 1/2 HYDRUALIC TUBE (13')
	21084	82" + 2, 1/2 HYDRAULIC TUBE (17')
8	13239	HOSE UNION
9	13235	3/8 HYDRAULIC CYLINDER PORT ELBOW
10	13265	3/8 HYDRAULIC HOSE 56" F-F
11	11490	CYLINDER, 4X24 (6' & 8-1/2')
	11491	CYLINDER, 3-1/2 X 24 (5-1/2')
12	11930	CYLINDER PIN
13	88137	SPRING LOCK PIN 3/16 X 3-3/4
14	13263	3/8 HYDRAULIC HOSE 36" M-F
15	88318	SPRING LOCK PIN 1/4 X 4-3/4
16	15113	1-1/2" STOP COLLAR

ITEM	P/N	DESCRIPTION
17	14523	CYLINDER, 4 X 8 WITH TOP BYPASS
18	13260	3/8 HYDRAULIC HOSE 24" M-F
19	13258	60" + 2, 1/2 HYDRAULIC TUBE (13')
	21084	82" + 2, 1/2 HYDRAULIC TUBE (17')
20	14850	3/8" HYDRAULIC HOSE 18" F-F
21	18068	CYLINDER PIN (1" X 3-1/8)
22	13236	1/2 CYLINDER PORT ELBOW
23	15811	65" 1/2 HYDRAULICTUBE (13')
	15699	86" 1/2 HYDRAULIC TUBE (17')
24	40215	ELBOW, 3/4 JIC
25	21021	36" + 2, 1/2 HYDRAULIC TUBE (5-1/2')
	20464	48" + 2, 1/2 HYDRAULIC TUBE (6-1/2')
	13258	60" + 2, 1/2 HYDRAULIC TUBE (8')
	13286	94" + 2, 1/2 HYDRAULIC TUBE (10')
26	19659	CYLINDER 4 X 6.88 WITH TOP BYPASS
27	14851	3/8 HYDRAULIC HOSE 42" F-F
28	13478	2-1/2" SQUARE TIE LOOP
29	13264	3/8 HYDRAULIC HOSE 48" M-F
30	88352	SPRING LOCK PIN 3/16 X 3-1/4

3430 & 3470 DUAL WING HYDRAULICS

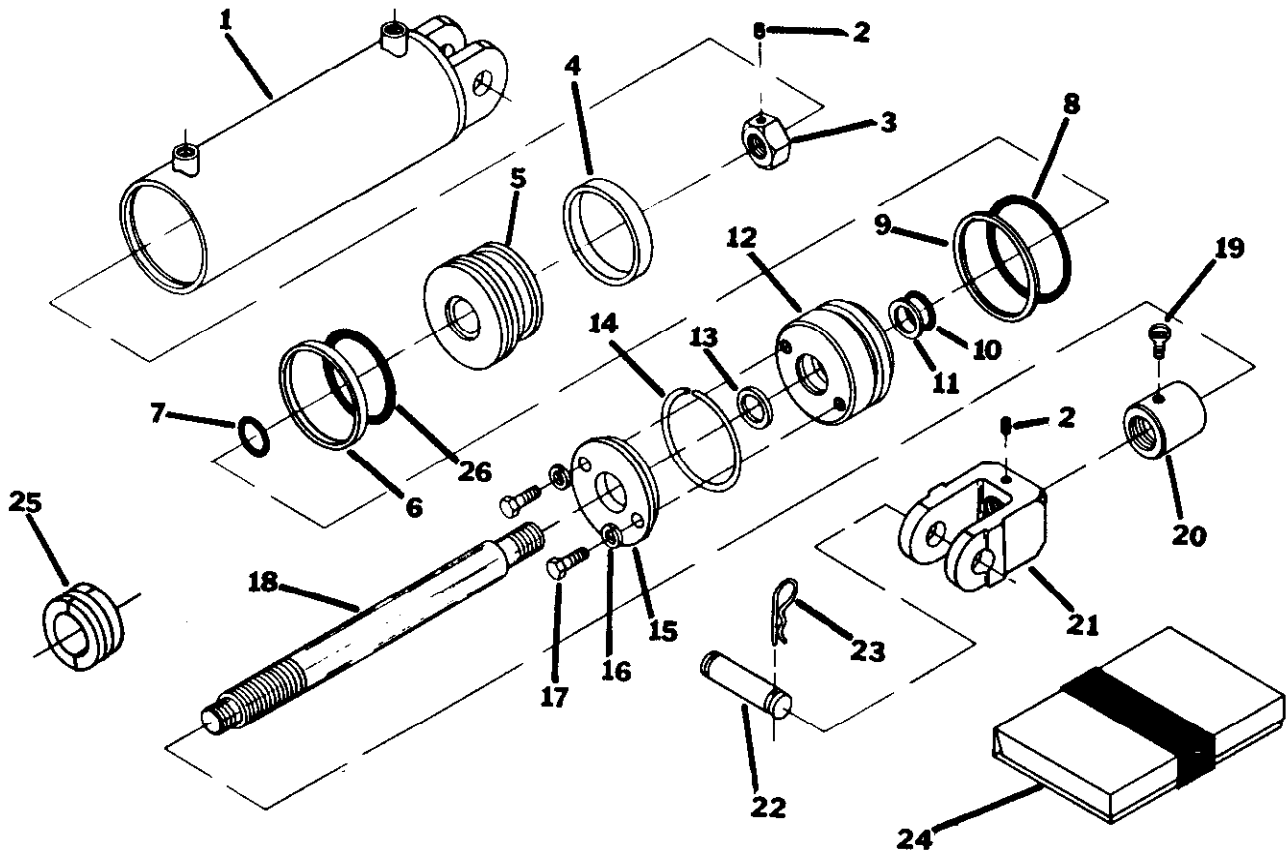


PI - 76836

ITEM	P/N	DESCRIPTION
1	13234	COUPLER TO HOSE UNION
2	13267	3/8 HYDRAULIC HOSE 72" M-F
3	13253	120", 1/2 HYDRAULIC TUBE
4	13681	1-1/2" CYLINDER LOCK CHANNEL
5	13262	3/8 HYDRAULIC HOSE 30" M-F (AIR SEEDER ONLY)
6	13238	3/8 TUBE TEE
7	15113	1-1/2" STOP COLLAR
8	13258	60" + 2, 1/2 HYDRAULIC TUBE (13')
	21084	82" + 2, 1/2 HYDRAULIC TUBE (17')
9	13235	3/8 HYDRAULIC CYLINDER PORT ELBOW
10	13265	3/8 HYDRAULIC HOSE 56" F-F
11	13263	3/8 HYDRAULIC HOSE 36" M-F
12	11490	HYDRAULIC CYLINDER 4 X 24
13	13264	3/8 HYDRAULIC HOSE 48" M-F
14	13257	75" + 2, 1/2 HYDRAULIC TUBE (8')
	13286	94" + 2, 1/2 HYDRAULIC TUBE (10')

ITEM	P/N	DESCRIPTION
15	11614	CYLINDER 3 X 24
16	13260	3/8 HYDRAULIC HOSE 24" M-F
17	88352	SPRING LOCK PIN 3/16 X 3-1/4
18	11930	CYLINDER PIN
19	88318	SPRING LOCK PIN 1/4 X 4-3/4
20	14523	CYLINDER, 4 X 8 WITH TOP BYPASS
21	13260	3/8 HYDRAULIC HOSE 24" M-F
22	19659	CYLINDER 4 X 6.88 WITH TOP BYPASS
23	14851	3/8 HYDRAULIC HOSE 42" F-F
24	13478	2-1/2" SQUARE TIE LOOP
25	13239	HOSE UNION
26	13286	94" + 2, 1/2 HYDRAULIC TUBE (10')
	13258	60" + 2, 1/2 HYDRAULIC TUBE (8')
27	40215	ELBOW, 3/4 JIC
28	15811	65", 1/2 HYDRAULIC TUBE (13')
	15699	86", 1/2 HYDRAULIC TUBE (17')
29	13236	1/2 CYLINDER PORT ELBOW
30	18068	CYLINDER PIN (1" X 3-1/8")
31	88137	SPRING LOCK PIN 3/16 X 3-3/4

4 X 8 TOP BYPASS

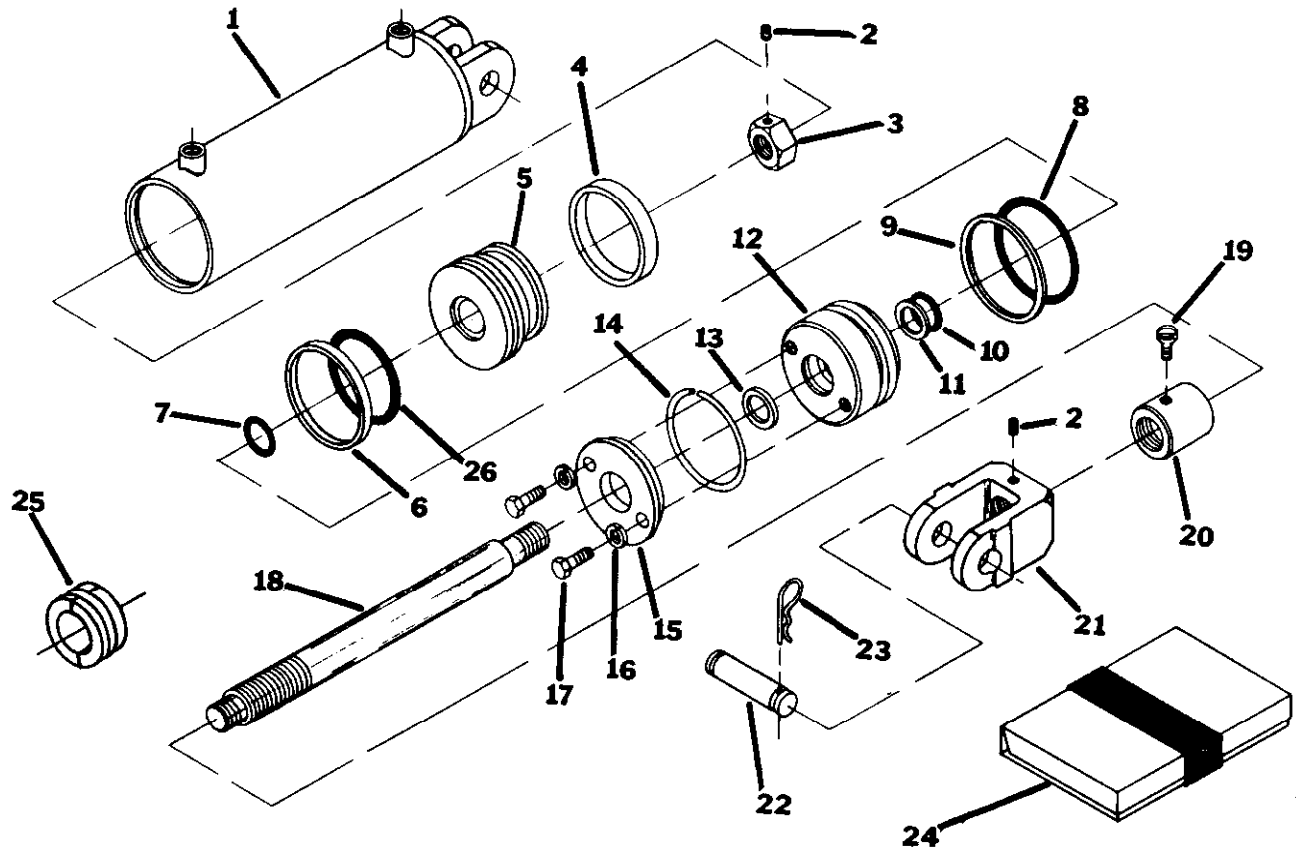


PI-75140

ITEM	P/N	DESCRIPTION
	14523	4 X 8 TOP BYPASS
1	14525	CYLINDER TUBE ASSEMBLY
2	88706	SET SCREW, 5/16NC X 5/16
3	14824	PISTON LOCK NUT
4	14534	4" WEAR RING
5	14527	4" TOP BYPASS PISTON
6	21096	4" GLIDE RING
7	12290	1" SHAFT SEAL
8	12291	4" PISTON SEAL
9	12289	4" BACK UP WASHER
10	14902	1-1/2" O-RING
11	14903	1-1/2" BACK UP WASHER
12	12283	4" CYLINDER GLAND
13	12288	ROD WIPER

ITEM	P/N	DESCRIPTION
14	12286	4" SNAP RING
15	13851	STOP PLATE
16	88362	LOCK WASHER, 3/8
17	88166	BOLT, 3/8NC X 1-1/2
18	13569	CLYINDER ROD
19	88387	THUMBSCREW, 3/8NC X 1/2
20	13570	SCREW STOP COLLAR
21	14822	ADJUSTABLE CYLINDER YOKE
22	18068	CYLINDER PIN 1" X 3.12
23	88318	SPRING LOCK PIN
24	14906	SEAL KIT SERIAL NUMBERS PB-10,000-UP
	14537	SEAL KIT SERIAL NUMBERS PB-2003-BELOW
25	15113	1-1/2" STOP COLLAR
26	21097	4" O-RING

4 X 6.88 TOP BYPASS

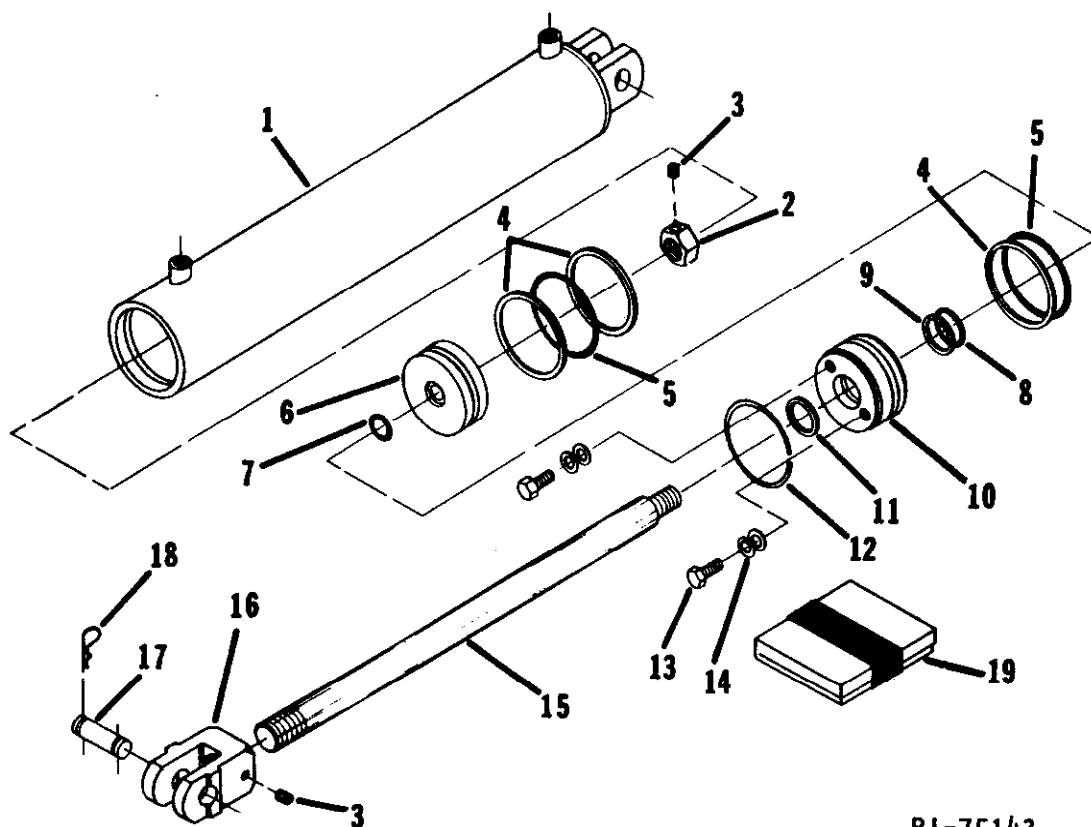


PI-75140

ITEM	P/N	DESCRIPTION
	19659	4 X 6.88 TOP BYPASS
1	19662	CYLINDER TUBE ASSEMBLY
2	88706	SET SCREW, 5/16NC X 5/16
3	14824	PISTON LOCK NUT
4	14534	4" WEAR RING
5	14527	TOP BYPASS PISTON
6	21096	4" GLIDE RING
7	12290	1" O-RING
8	12291	4" O-RING
9	12289	4" BACKUP WASHER
10	14902	1-1/2" O-RING
11	14903	1-1/2" BACKUP WASHER
12	12283	END GLAND

ITEM	P/N	DESCRIPTION
13	12288	ROD WIPER
14	12286	4" SNAP RING
15	13851	STOP PLATE
16	88362	LOCK WASHER, 3/8
17	88166	BOLT, 3/8NC X 1-1/2
18	19661	CYLINDER ROD
19	88387	THUMBSCREW, 3/8NC X 1/2
20	13570	SCREW STOP COLLAR
21	14822	ADJUSTABLE END YOKE
22	18068	CYLINDER PIN
23	88318	SPRING CLIP
24	14906	SEAL KIT
25	15113	1-1/2" STOP COLLAR
26	21097	4" O-RING

3 X 24 STANDARD

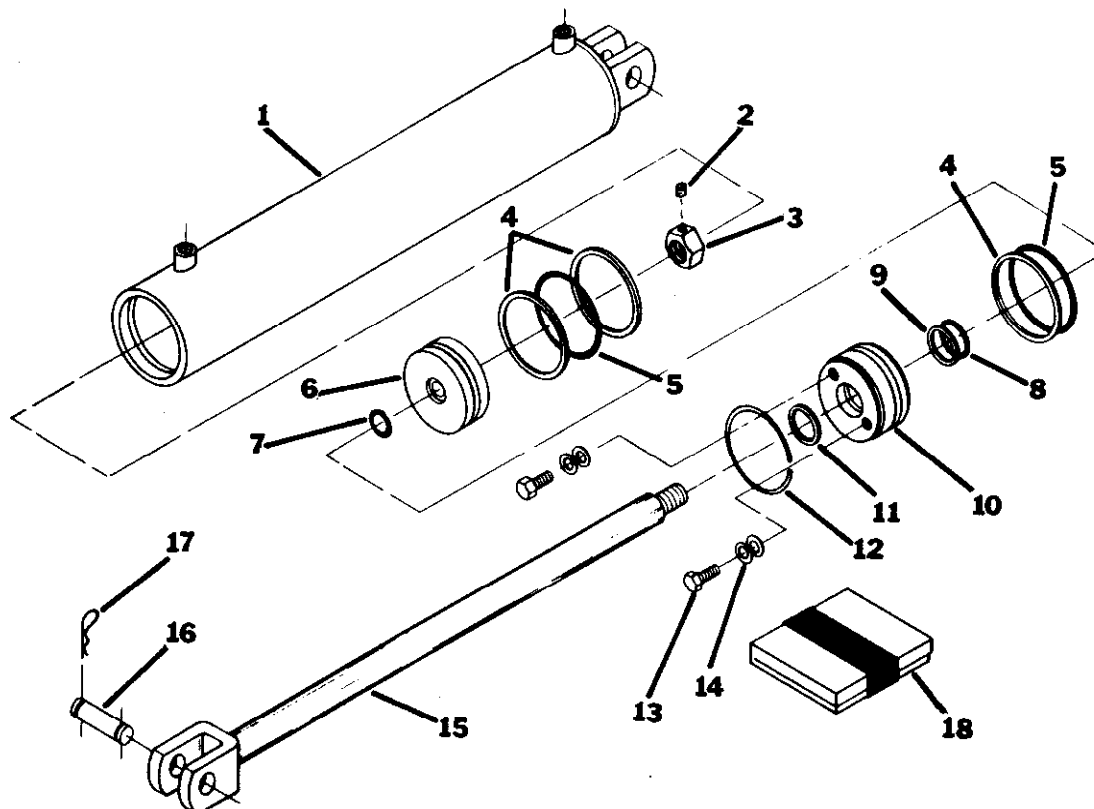


PI-75143

ITEM	P/N	DESCRIPTION
	11614	3 X 24 STANDARD CYLINDER
1	12310	CYLINDER TUBE ASSEMBLY
2	14824	PISTON LOCK NUT
3	88706	SET SCREW 5/16NC X 5/16
4	12305	3" BACK UP WASHER
5	12304	PISTON SEAL
6	12308	PISTON
7	12290	SHAFT SEAL
8	14902	1-1/2" O-RING
9	14903	1-1/2" BACK UP WASHER
10	12309	3" CYLINDER GLAND

ITEM	P/N	DESCRIPTION
11	12288	ROD WIPER
12	12303	SNAP RING 3"
13	88190	BOLT, 1/4NC X 1/2
14	88261	FLAT WASHER, 1/4
15	13526	CYLINDER ROD
16	14980	ADJUSTABLE CYLINDER YOKE
17	11930	CYLINDER PIN
18	88352	SPRING CLIP
19	14904	SEAL KIT SERIAL NUMBER T-10,000 - UP (REF. 4, 5, 7, 8, 9, 11)
	11508	SEAL KIT SERIAL NUMBER T-1310 - BELOW

3-1/2 X 24 STANDARD

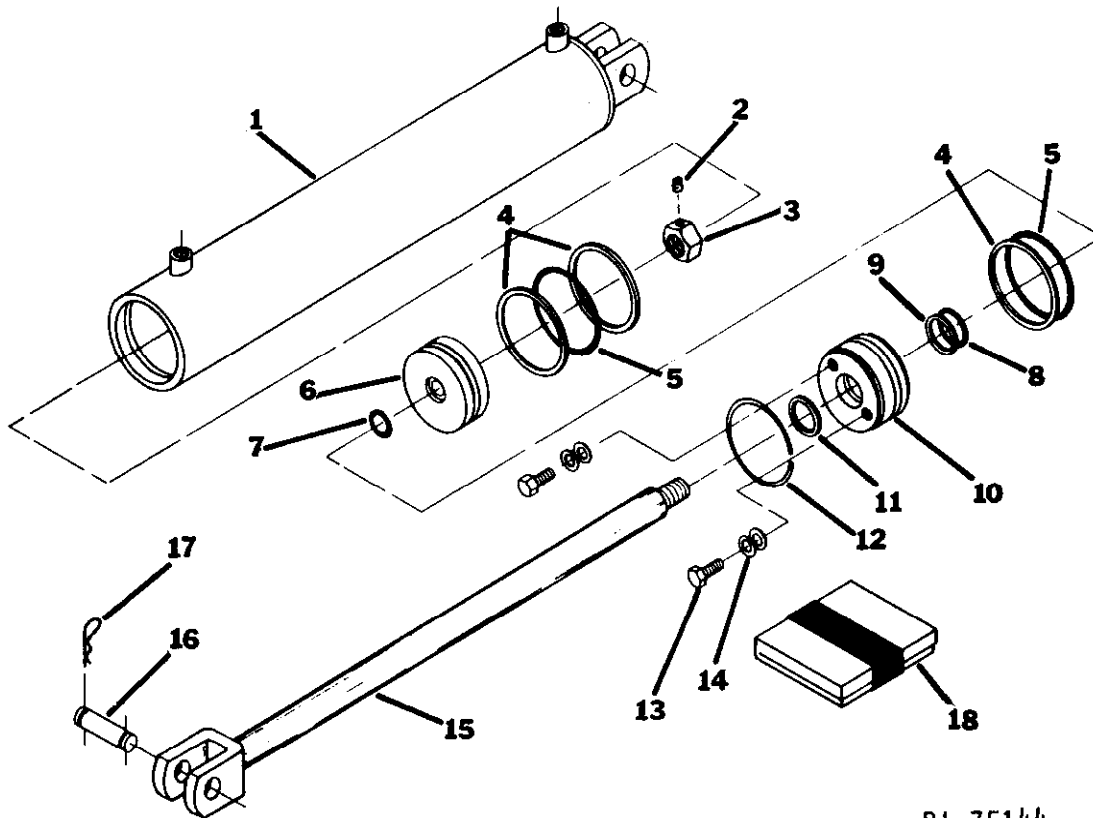


PI-75144

ITEM	P/N	DESCRIPTION
	11491	3-1/2 X 24 STD. CYLINDER
1	12301	CYLINDER TUBE ASSEMBLY
2	88706	SET SCREW, 5/16NC X 5/16
3	14824	PISTON LOCK NUT
4	12294	3-1/2" BACK UP WASHER
5	12292	3-1/2" O-RING
6	12299	PISTON
7	12290	1" O-RING
8	14902	1-1/2" O-RING
9	14903	1-1/2" BACK UP WASHER
10	12300	END GLAND

ITEM	P/N	DESCRIPTION
11	12288	ROD WIPER
12	12293	SNAP RING
13	88190	BOLT, 1/4NC X 1/2
14	88261	FLAT WASHER, 1/4
15	12302	CYLINDER ROD ASSEMBLY
16	11930	CYLINDER PIN
17	88352	SPRING CLIP
18	14905	SEAL KIT SERIAL NUMBER 0-10,000-UP (REF. 4, 5, 7, 8, 9, 11)
	11980	SEAL KIT SERIAL NUMBER 0-7990-BELOW

4 X 24 STANDARD

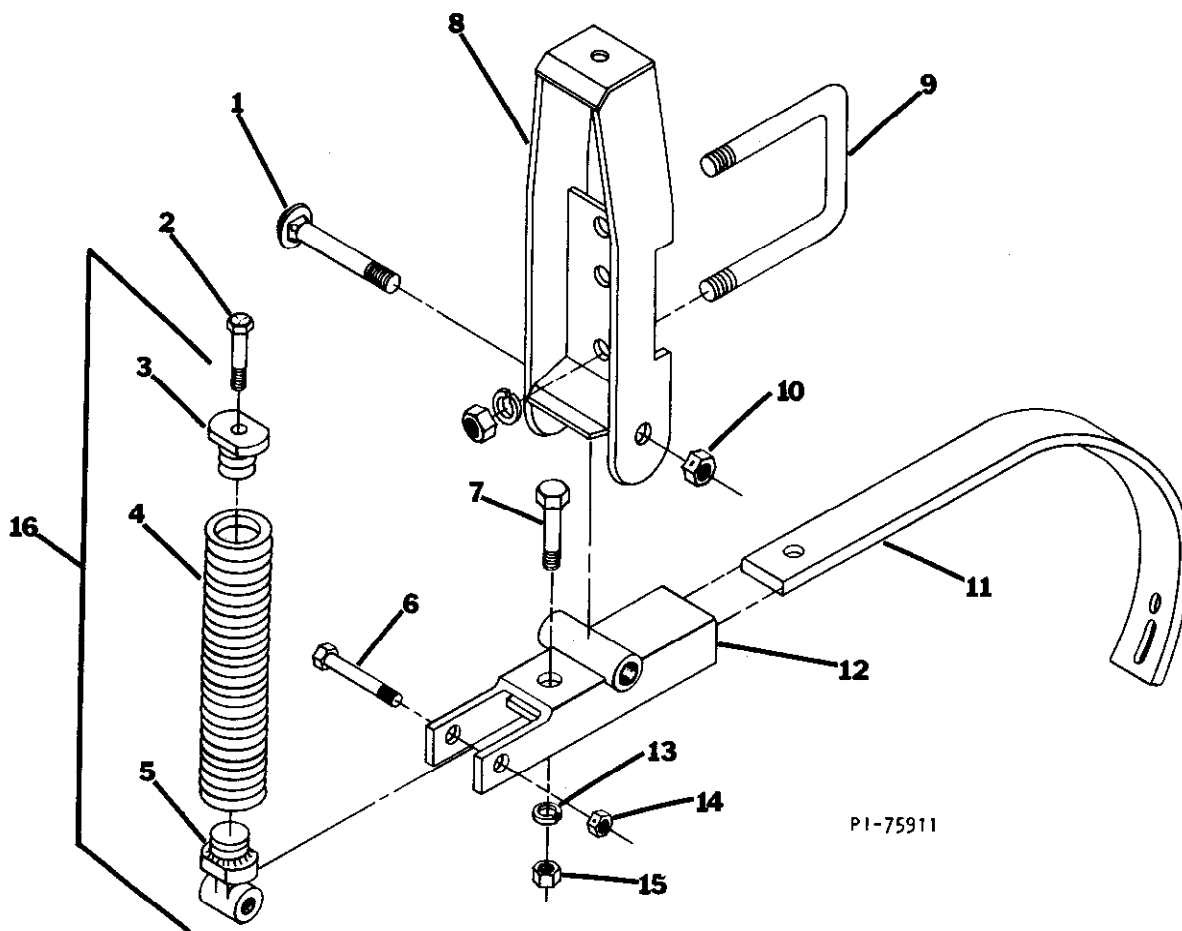


PI-75144

ITEM	P/N	DESCRIPTION
	11490	4 X 24 STANDARD CYLINDER
1	12658	CYLINDER TUBE ASSEMBLY
2	88706	SET SCREW, 5/16NC X 5/16
3	14824	PISTON LOCK NUT
4	12289	4" BACK UP WASHER
5	12291	4" O-RING
6	12282	PISTON
7	12290	1" O-RING
8	14902	1-1/2" O-RING
9	14903	1-1/2" BACK UP WASHER
10	12283	END GLAND

ITEM	P/N	DESCRIPTION
11	12288	ROD WIPER
12	12286	4" SNAP RING
13	88268	BOLT, 3/8NC X 3/4
14	88278	5/16 FLAT WASHER
15	12302	CYLINDER ROD ASSEMBLY
16	11930	CYLINDER PIN
17	88352	SPRING CLIP
18	14907	SEAL KIT WITH SERIAL NUMBERS K-10,000-UP
	11507	SEAL KIT WITH SERIAL NUMBERS K-9000-BELOW

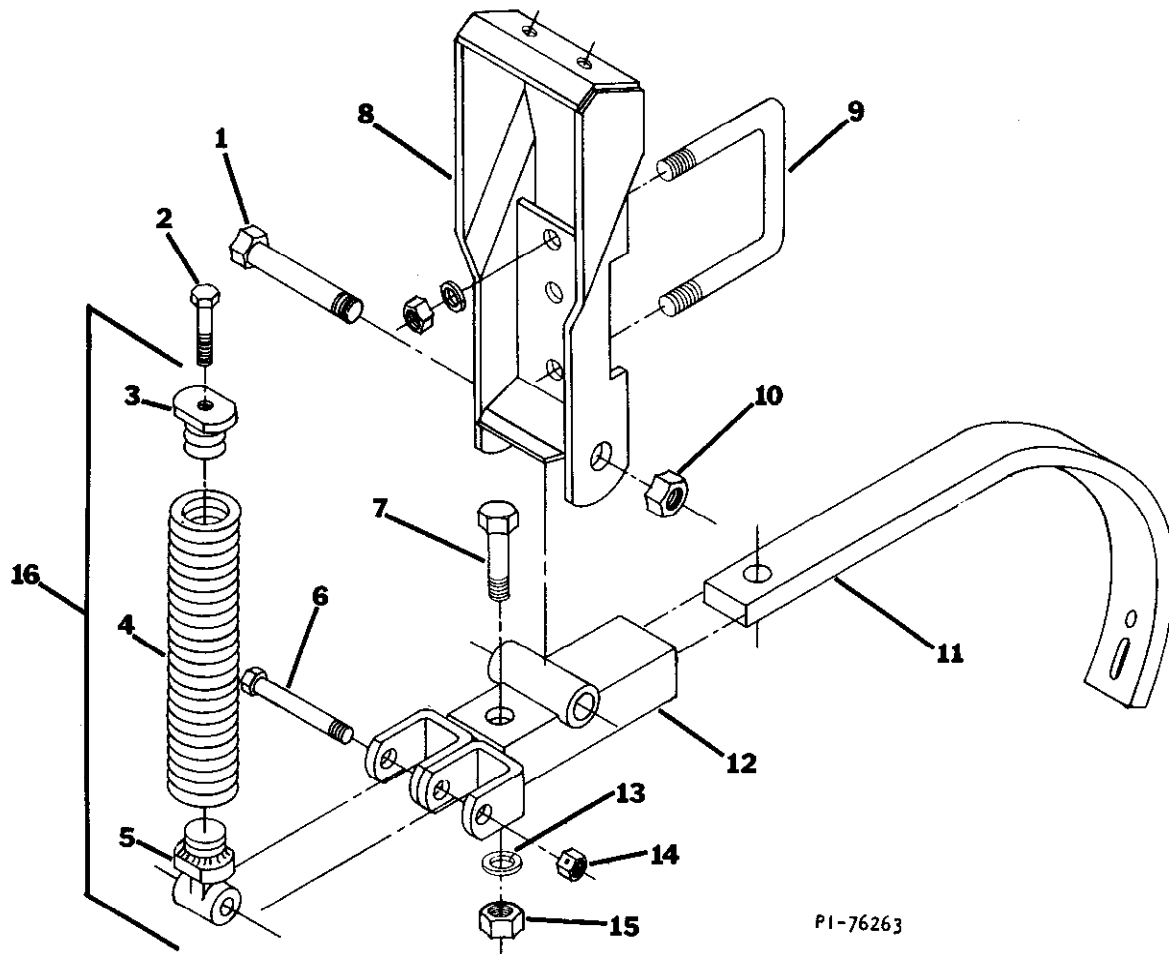
SHANK ASSEMBLY



ITEM	P/N	DESCRIPTION
	20570	SHANK ASSEMBLY (4") (REFERENCE ITEMS 1-8, 10-16)
1	15579	SHANK CARRIAGE BOLT
2	21966	BOLT, 1/2NC X 2-1/2
3	11398	SPRING PLUG
4	11510	3/8 DIA. WIRE SPRING
5	11397	SPRING HANDLE
6	20637	BOLT, 1/2NF X 3
7	88294	BOLT, 5/8NC X 2 GR 5
8	20569	SHANK TO FRAME BRACKET

ITEM	P/N	DESCRIPTION
9	88501	U-BOLT, 5/8NC X 4 X 4-1/8
10	22463	LOCK NUT, 3/4NF
11	11511	SHANK
12	11509	SHANK HOLDER
13	88129	LOCK WASHER, 5/8
14	88304	LOCK NUT, 1/2NF
15	88126	NUT, 5/8NC
16	11540	SPRING & PLUG ASSEMBLY (REF. ITEMS 3, 4 & 5)

TWIN SPRING SHANK ASSEMBLY

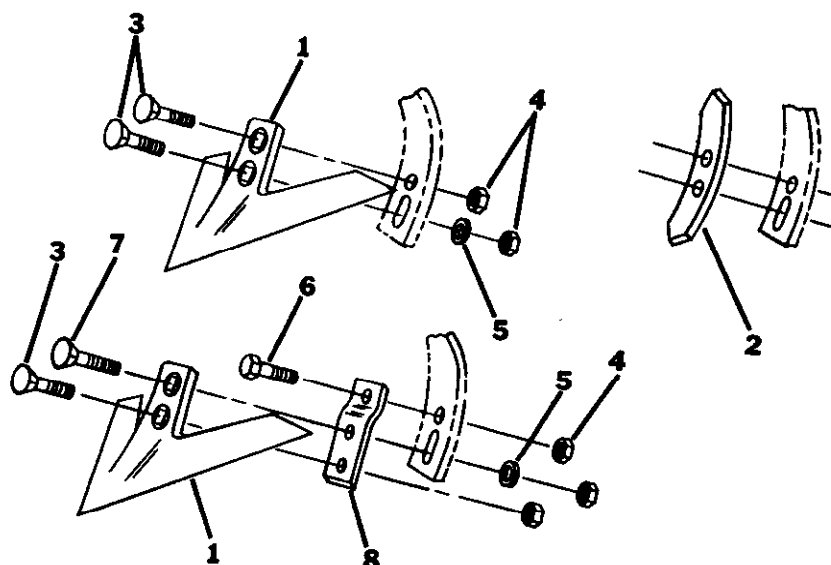


PI-76263

ITEM	P/N	DESCRIPTION
	22053	TWIN SPRING SHANK ASSEMBLY (REF. ITEMS 1-8, 10-16)
1	22933	BOLT, 3/4NF X 4-1/2
2	21966	BOLT, 1/2NC X 2-1/2
3	11398	SPRING PLUG
4	11510	SPRING
5	11397	SPRING HANDLE
6	88574	BOLT, 1/2NC X 5-1/2
7	88294	BOLT, 5/8NC X 2 GR 5
8	22047	TWIN SPRING BRACKET

ITEM	P/N	DESCRIPTION
9	88501	U-BOLT, 5/8NC X 4 X 4-1/8
10	22463	LOCK NUT, 3/4 NF
11	21535	HD SHANK
12	22051	SHANK HOLDER
13	88129	LOCK WASHER, 5/8
14	88363	LOCK NUT, 1/2NC
15	88126	NUT, 5/8 NC
16	11540	SPRING PLUG ASSEMBLY (REF. ITEMS 3, 4 & 5)

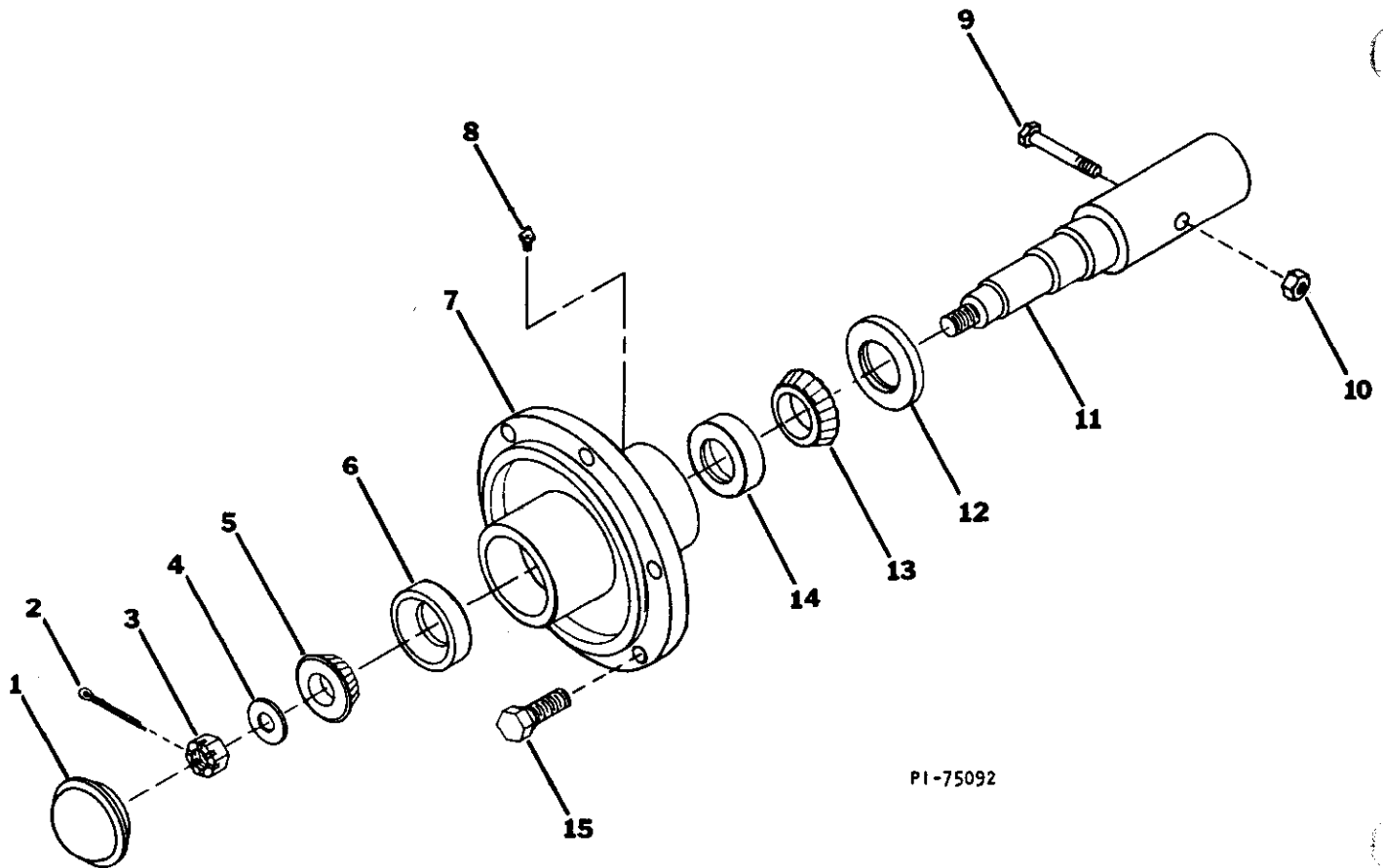
SHOVELS & SPIKES



ITEM	P/N	DESCRIPTION
	14685	HK 7/16 X 1-1/2 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)
1	25853	4" LOW CROWN SHOVEL (924)
	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	P/N	DESCRIPTION
2	11952	2" SPIKE
3	88342	PLOW BOLT, 7/16NC X 1-1/2
	88632	PLOW BOLT, 7/16NC X 1-3/4 (REPAIR HEAD)
4	88344	NUT, 7/16NC
5	88152	FLAT WASHER, 7/16
6	88392	BOLT, 7/16NC X 1-1/2
7	88464	PLOW BOLT, 7/16NC X 2-1/4
8	16338	FC SHOVEL EXTENSION
	22297	HK 7/16 X 1-3/4 FC SHOVEL KIT (25) (REF. ITEMS 3, 4 & 5 - CONTAINS HARDWARE FOR 25 SHOVELS)

1-3/4" HUB & SPINDLE

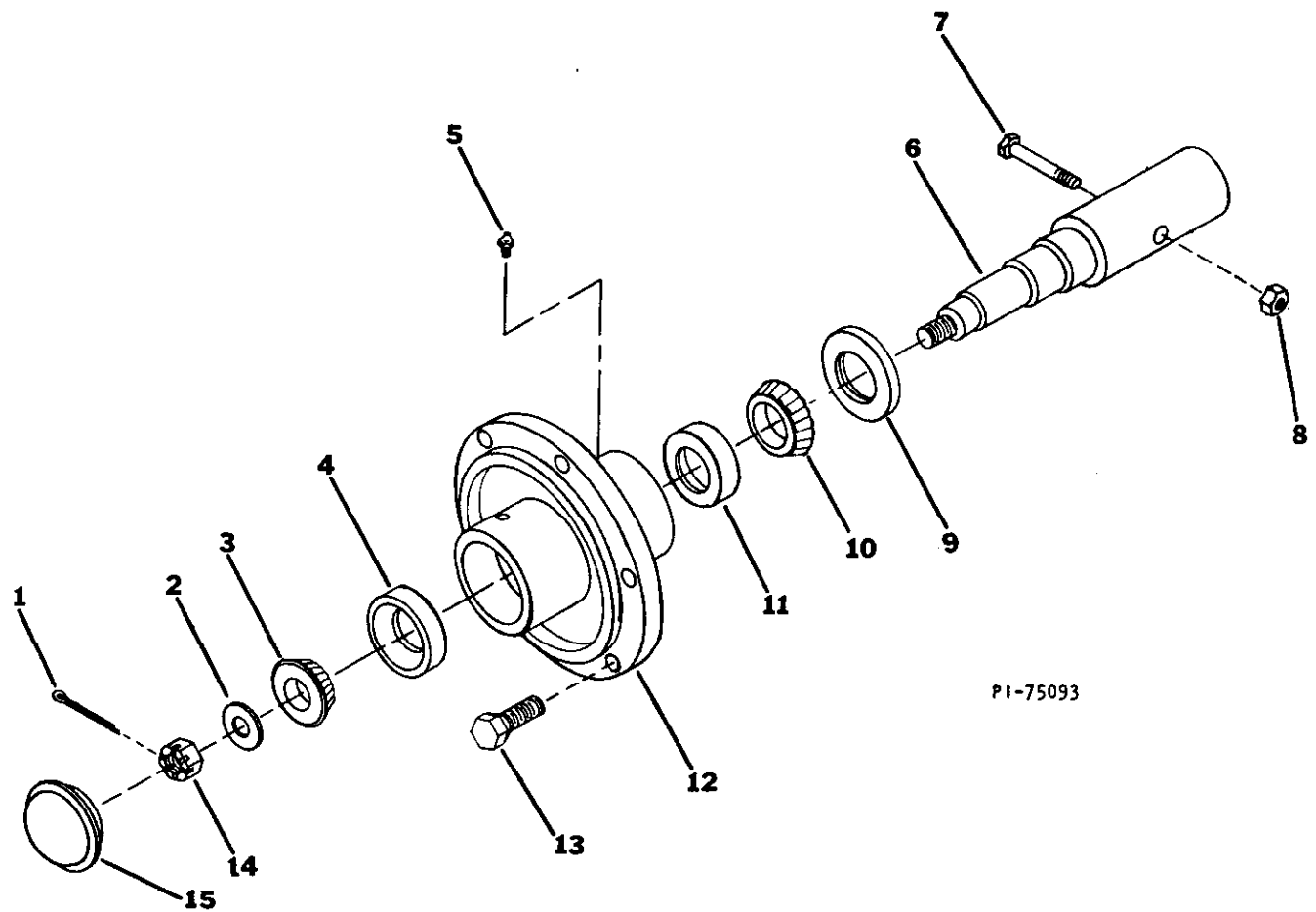


PI-75092

ITEM	P/N	DESCRIPTION
	11605	HUB & SPINDLE ASSEMBLY (ITEMS 1-8, 11-15)
1	11381	DUST CAP
2	88301	COTTER PIN, 3/16 X 1-1/2
3	88340	SLOTTED NUT, 7/8 NF
4	16094	SPINDLE WASHER, 7/8
5	10345	OUTER BEARING CONE
6	10344	OUTER BEARING CUP
7	11380	MACHINE HUB

ITEM	P/N	DESCRIPTION
8	88263	GREASE FITTING, 1/8 NPT
9	88313	BOLT, 1/2NF X 3 GR 5
10	88304	LOCK NUT, 1/2 NF
11	11390	SPINDLE
12	11377	SEAL
13	11378	INNER BEARING CONE
14	11379	INNER BEARING CUP
15	88142	WHEEL BOLT, 1/2NF X 1

2" HUB & SPINDLE

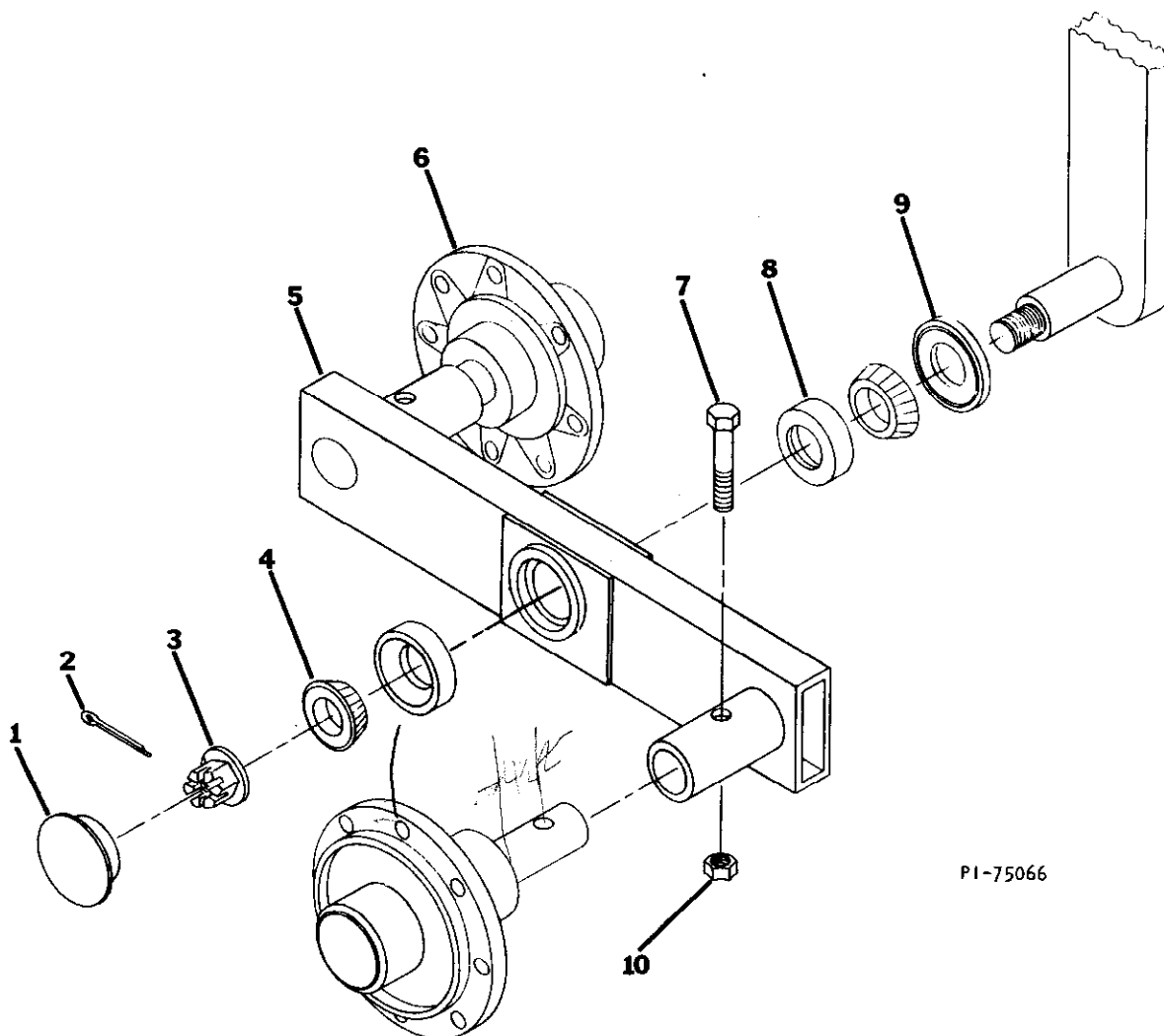


PI-75093

ITEM	P/N	DESCRIPTION
	14131	2" HUB & SPINDLE ASSEMBLY (ITEMS 1-6 & 9-15)
1	88301	COTTER PIN, 3/16 X 1-1/2
2	16094	SPINDLE WASHER, 7/8
3	10345	OUTER BEARING CONE
4	10344	OUTER BEARING CUP
5	88263	GREASE FITTING, 1/8 NPT
6	14251	2" AXLE SPINDLE

ITEM	P/N	DESCRIPTION
7	88429	BOLT, 1/2NF X 3-1/4 GR 5
8	88304	LOCK NUT, 1/2 NF
9	14247	SEAL
10	14248	INNER BEARING CONE
11	14249	INNER BEARING CUP
12	14244	2" MACHINED HUB
13	88142	WHEEL BOLT, 1/2NF X 1
14	88340	SLOTTED NUT, 7/8 NF
15	11381	DUST CAP

1-3/4" WALKING TANDEM

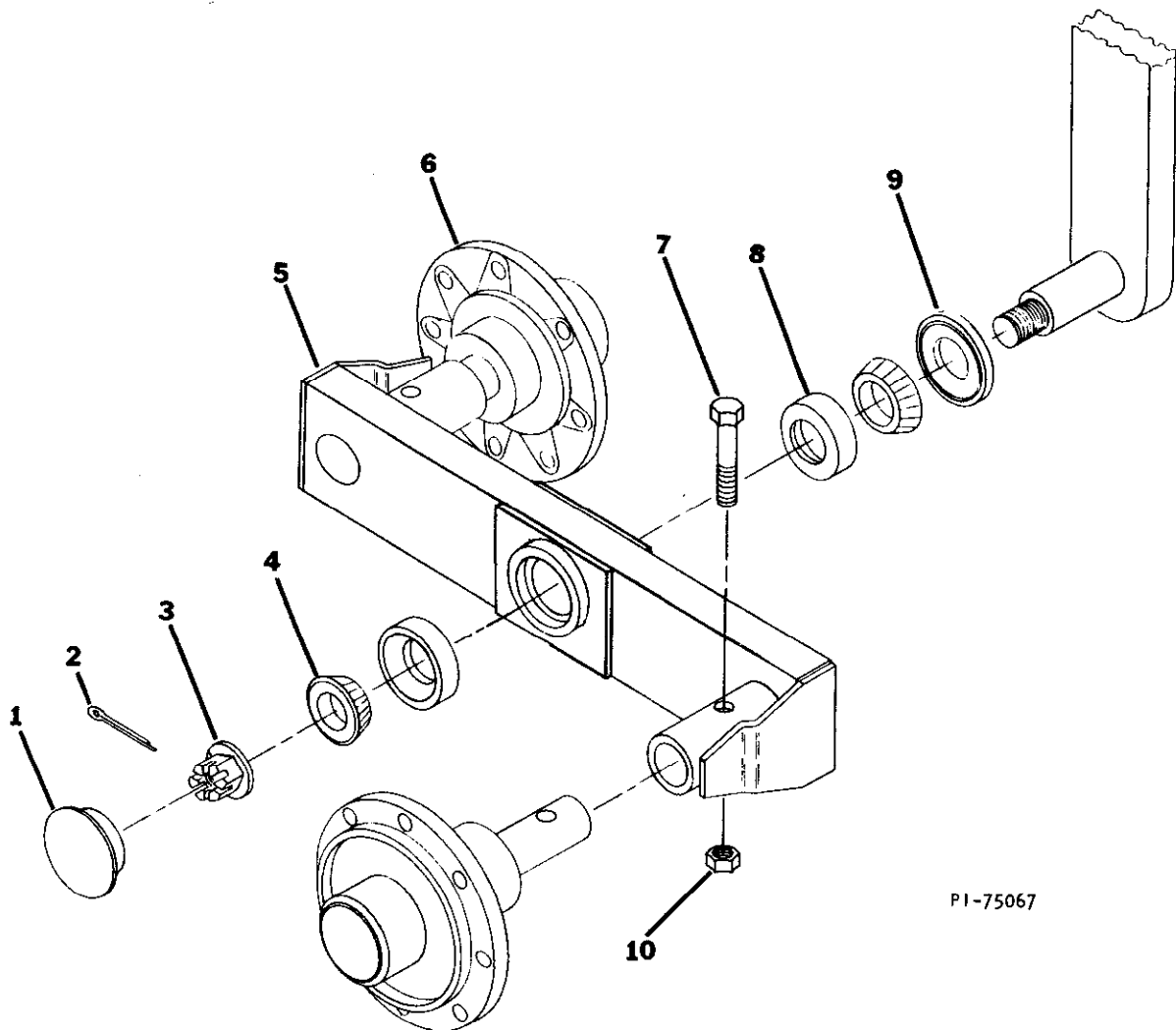


PI-75066

ITEM	P/N	DESCRIPTION
1	12206	DUST CAP
2	88133	COTTER PIN, 3/16 X 2
3	12712	WALKING TANDEM NUT ASSEMBLY
4	12103	BEARING CONE
5	12681	WALKING TANDEM BEARING CUP ASSEMBLY (INCLUDES ITEM 8)

ITEM	P/N	DESCRIPTION
6	11605	1-3/4" HUB & SPINDLE
7	88313	BOLT, 1/2NF X 3
8	12104	BEARING CUP
9	23733	SEAL
10	88304	LOCK NUT, 1/2NF

2" WALKING TANDEM

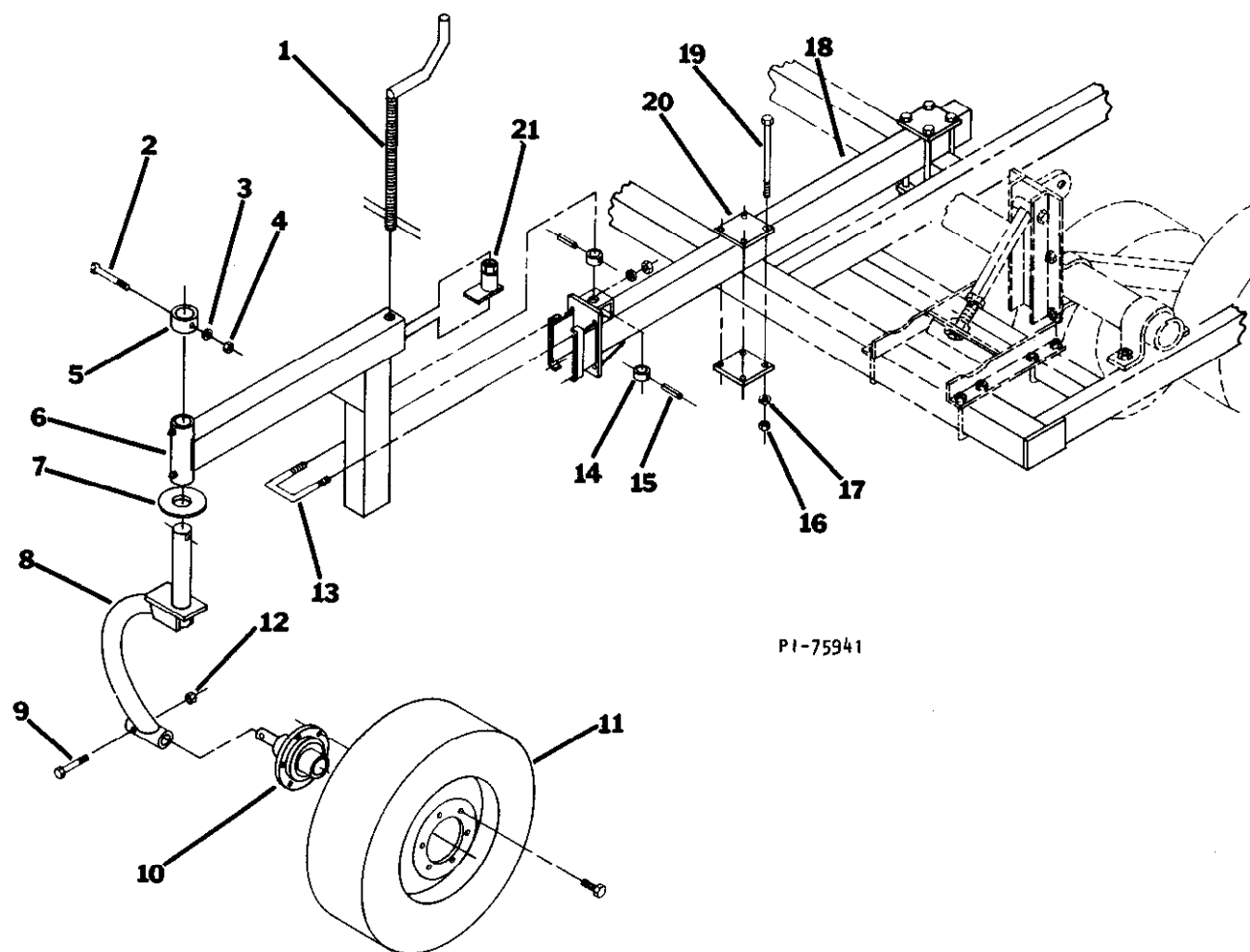


PI-75067

ITEM	P/N	DESCRIPTION
1	12206	DUST CAP
2	88133	COTTER PIN, 3/16 X 2
3	12712	WALKING TANDEM NUT ASSEMBLY
4	12103	BEARING CONE
5	15905	WALKING TANDEM BEARING CUP ASSEMBLY (INCLUDES ITEM 8)

ITEM	P/N	DESCRIPTION
6	14131	2" HUB & SPINDLE ASSEMBLY
7	88429	BOLT, 1/2NF X 3-1/4
8	12104	BEARING CUP
9	23733	SEAL
10	88304	LOCK NUT, 1/2NF

STABILIZER WHEEL ASSEMBLY

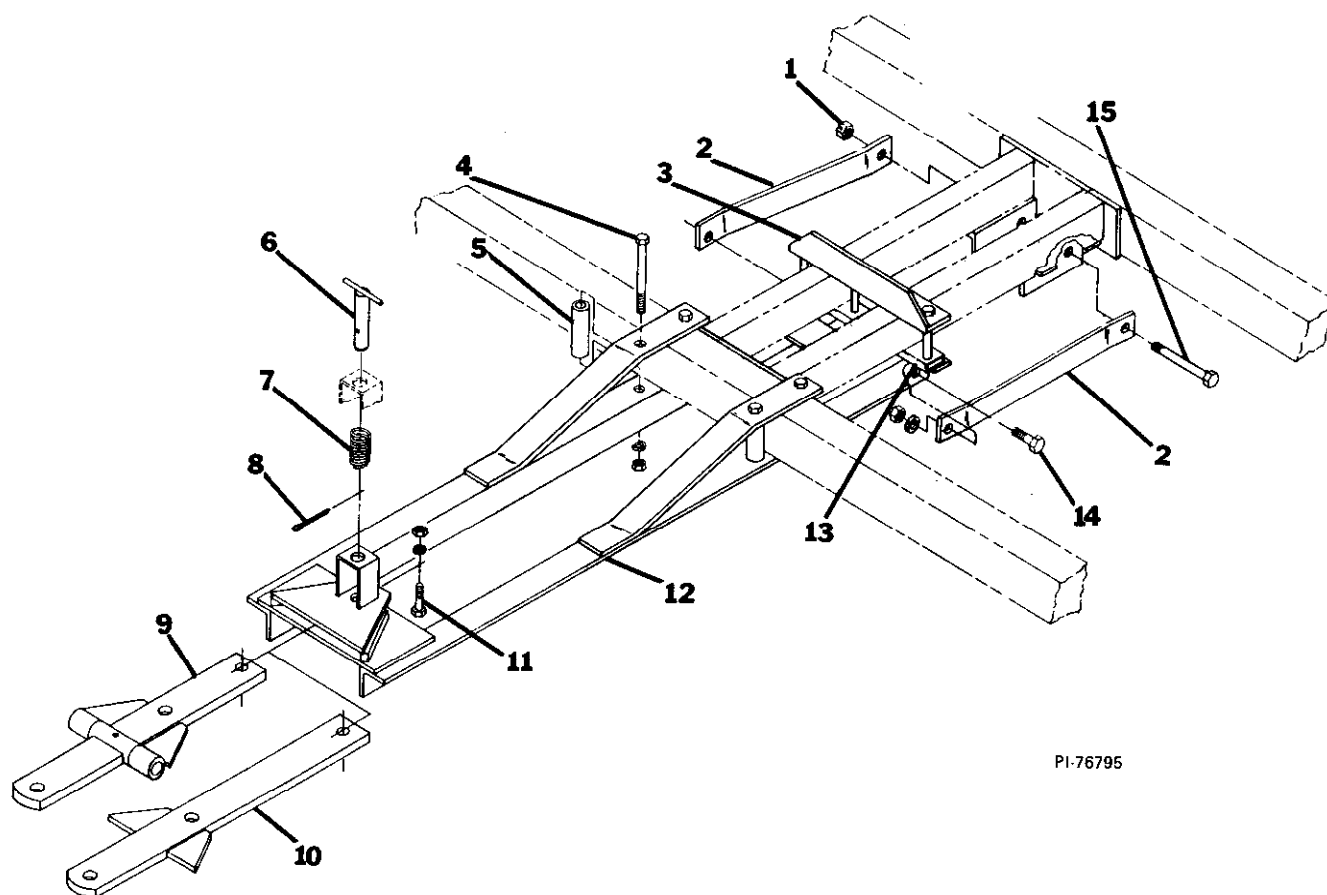


PI-75941

ITEM	P/N	DESCRIPTION
1	20587	GAUGE WHEEL CRANK
2	88412	BOLT, 3/8NC X 3-1/2 GR 5
3	88362	LOCK WASHER, 3/8
4	88103	NUT, 3/8NC
5	14189	LINK ARM COLLAR
6	20997	GAUGE WHEEL LEG
7	19262	SHIM
8	16312	CASTER WHEEL LEG
9	88313	BOLT, 1/2NF X 3 GR5
10	11605	1-3/4" HUB & SPINDLE
11	13141	7:60 X 15 TIRE ASSEMBLY
	11949	TIRE, 7:60 X 15
	11956	TUBE, 7:60 X 15
	10236	RIM, 15 X 6, 6 BOLT

ITEM	P/N	DESCRIPTION
12	88304	LOCK NUT, 1/2 NF
13	88503	U-BOLT, 5/8NC X 3 X 5-1/4
14	20755	CRANK STOP COLLAR
15	88415	1/4" ROLL PIN
16	88126	NUT, 5/8NC
17	88129	LOCK WASHER, 5/8
18	20585	GAUGE WHEEL ARM
19	88477	BOLT, 5/8NC X 10 GR 5
20	20741	BACKING PLATE
21	20717	GAUGE WHEEL NUT ASSEMBLY

AUXILIARY HITCH

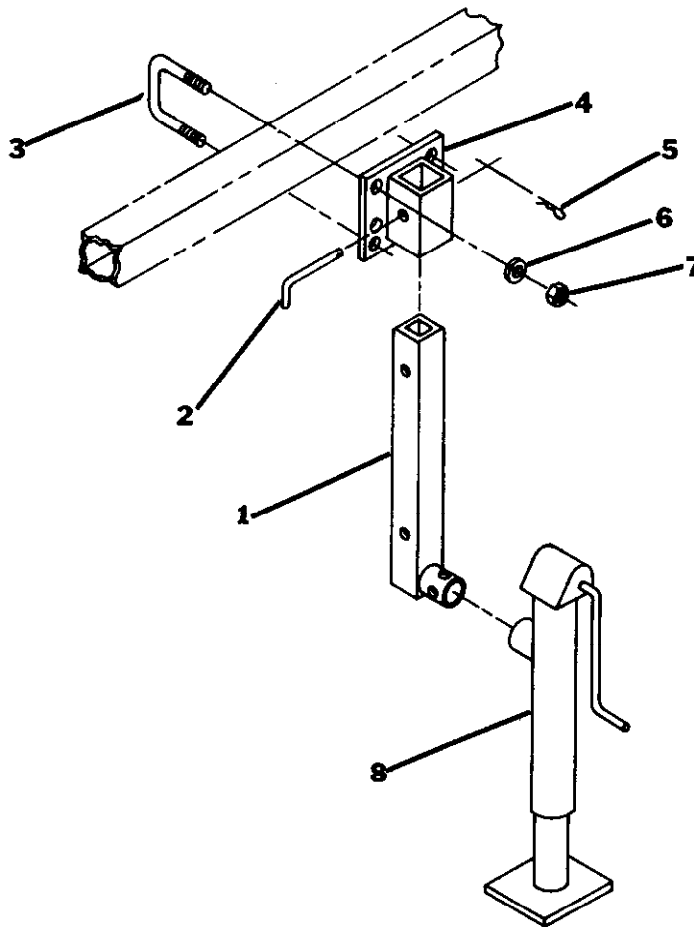


PI-76795

ITEM	P/N	DESCRIPTION
	27597	3400 3-SECTION FC AUXILIARY HITCH SOLID (13' & 17' MODELS ONLY)
	27598	3400 3-SECTION FC AUXILIARY HITCH HINGED (13' & 17' MODELS ONLY)
1	88356	LOCKNUT, 3/4NC
2	27110	STRAP
3	18436	ANGLE CLAMP
4	88295	BOLT, 5/8NC X 6 GR5
5	21497	SPACER TUBE
6	15922	PIN ASSEMBLY
7	15940	SPRING
8	88101	COTTER PIN 1/4 X 2-1/2

ITEM	P/N	DESCRIPTION
9	18443	HINGED TONGUE ASSEMBLY
10	15918	STRAIGHT TONGUE ASSEMBLY
11	88294	BOLT, 5/8NC X 2 GR5
12	18447	HITCH FRAME ASSEMBLY
13	27109	TUBE
14	88290	BOLT, 3/4NC X 2 GR8
15	88335	BOLT, 3/4NC X 7 GR5

REAR JACK STAND



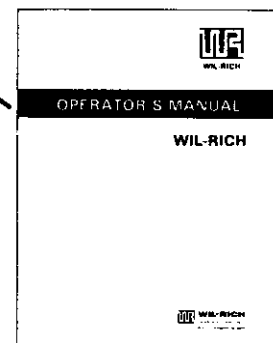
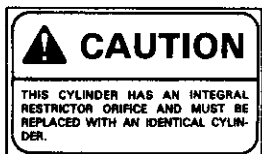
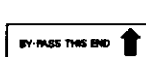
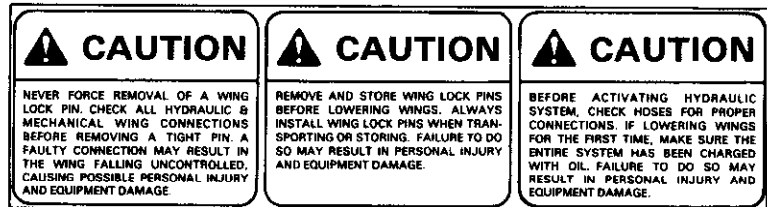
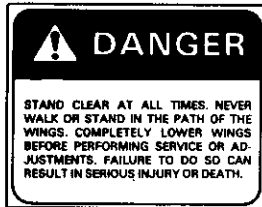
PI-75955

ITEM	P/N	DESCRIPTION
	22726	REAR JACK STAND (ITEMS 1-7)
1	16292	JACK LEG
2	16306	PIN
3	88501	U-BOLT, 5/8 X 4 X 4-1/8
4	22724	JACK BASE
5	88435	SPRING LOCK PIN
6	88129	LOCK WASHER, 5/8
7	88126	NUT, 5/8 NC
8	12796	POLE JACK (ORDER SEPARATELY)

DECALS



WIL-RICH



PI-76108

ITEM	P/N	DESCRIPTION
1		WIL-RICH LOGO DECALS
	18298	1-1/2 X 10
	18299	2 X 13
	18300	3-1/4 X 21
2	20376	DANGER DECAL
3	20339	BYPASS DECAL
4	20121	INTEGRAL RESTRICTOR DECAL
5	20119	SCREW STOP ADJUST DECAL
6	20375	MAIN POLE CAUTION DECAL
7	74023	3400 3-SECTION DISK CULTIVATOR OPERATOR'S MANUAL
	74025	3400 3-SECTION FIELD CULTIVATOR OPERATOR'S MANUAL