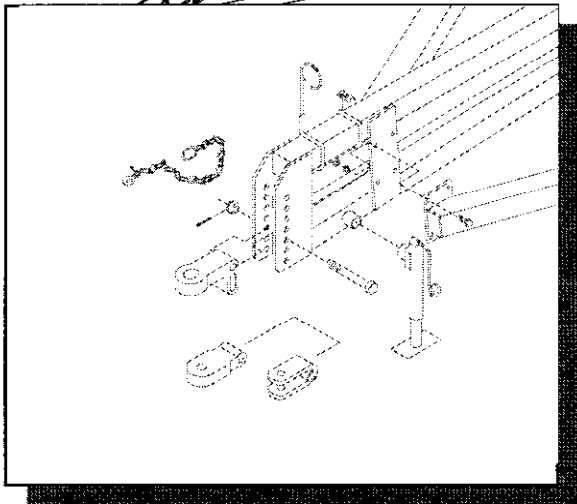
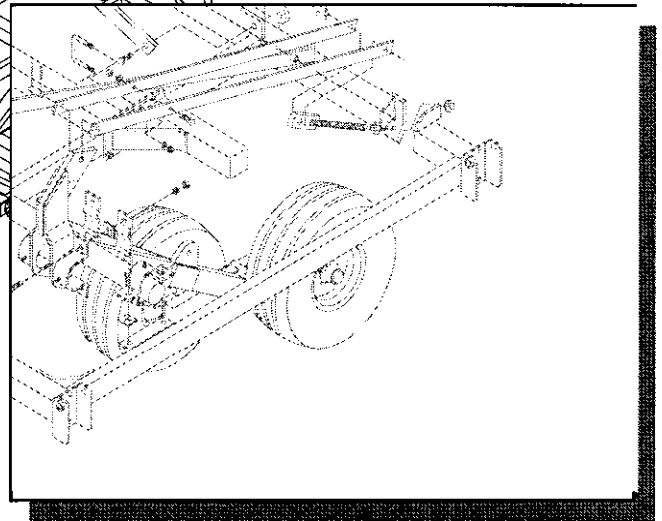
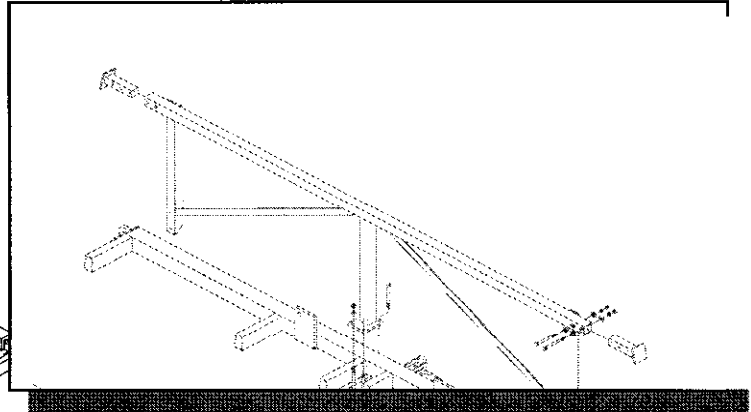
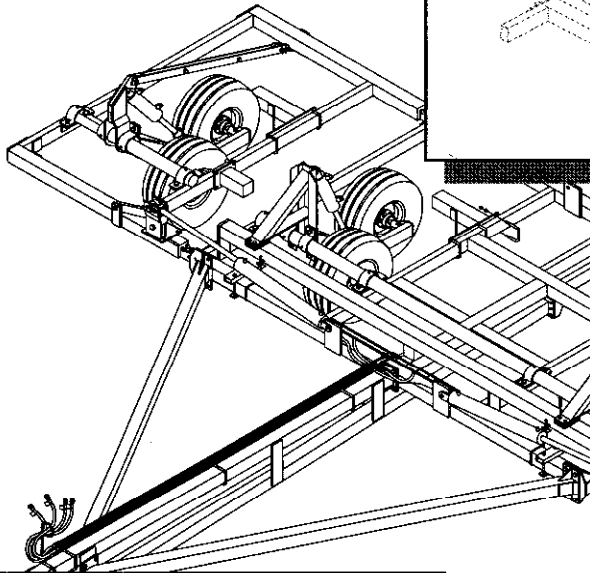


WIL-RICH®

4800 CHISEL PLOW PARTS



PRINTED IN USA (74205) J&M500 1/97

800-8888
PO Box 1030
Wahpeton, ND 58074
Ph. (701) 642-2621
Parts Fax (701) 642-3819

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.

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 to the serial number at the point the change occurred to provide an accurate means of determining the proper parts. See contents graphic, page 3, for location.

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

ASSY	Assembly
BLD	Blade
BRKT	Bracket
CTR	Center
CP	Cup Point
(FF)	Female Female
GR	Grade of Bolt
HD	Heavy Duty
HDWE	Hardware
LH	Left Hand
(MF)	Male Female
MF	Main Frame
MTG	Mounting
NC	National Course Thread
NF	National Fine Thread
NPT	National Pipe Thread
RH	Right Hand
SS	Screw Stop
SST	Stainless Steel
TA	Tandem
TBP	Top Bypass
W/	With
W/O	Without

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

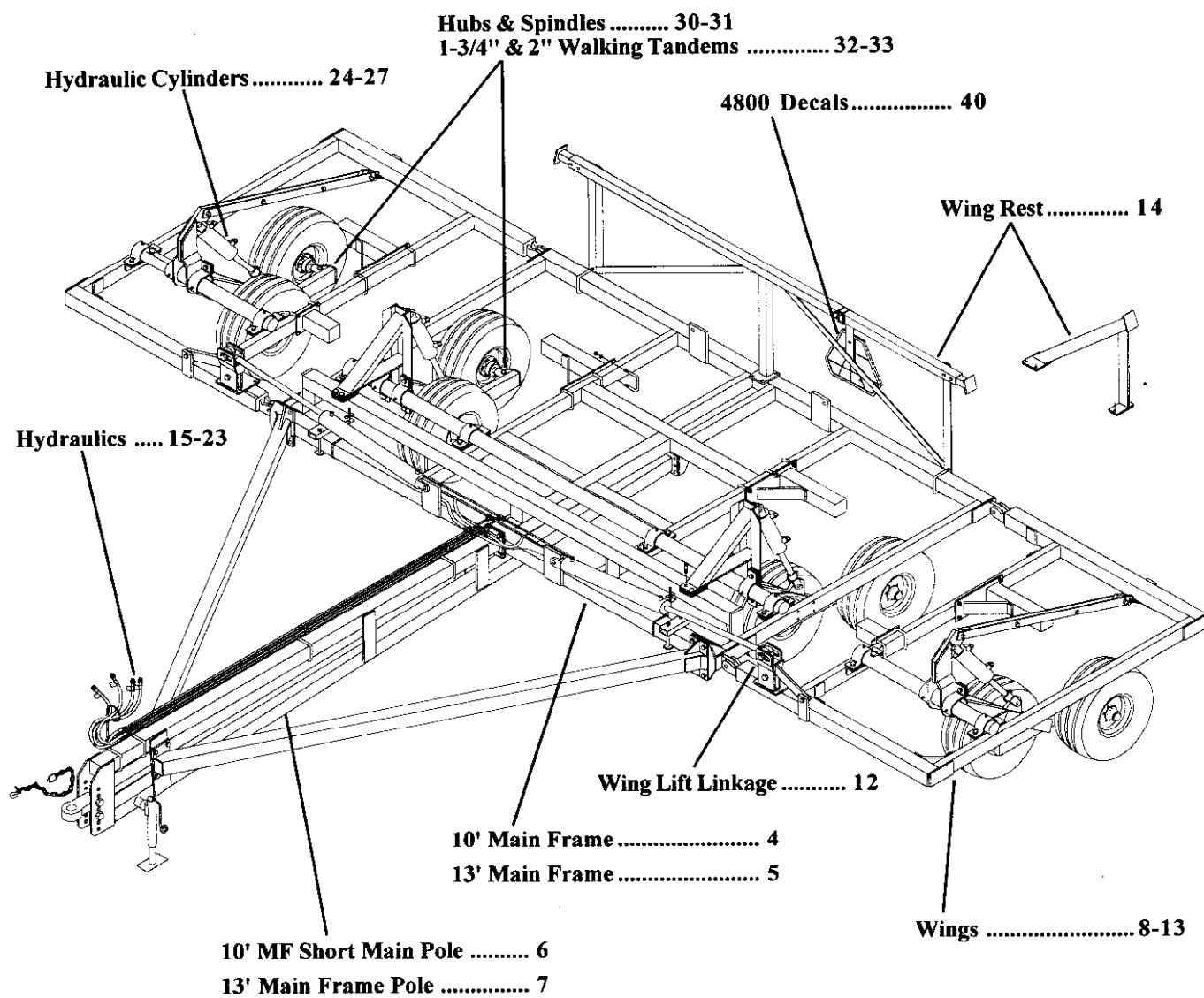
Note: Standard nuts and lock washers are not called out. Anything other than standard will be called out.

4800 CHISEL PLOW PARTS MANUAL 74205 1/97

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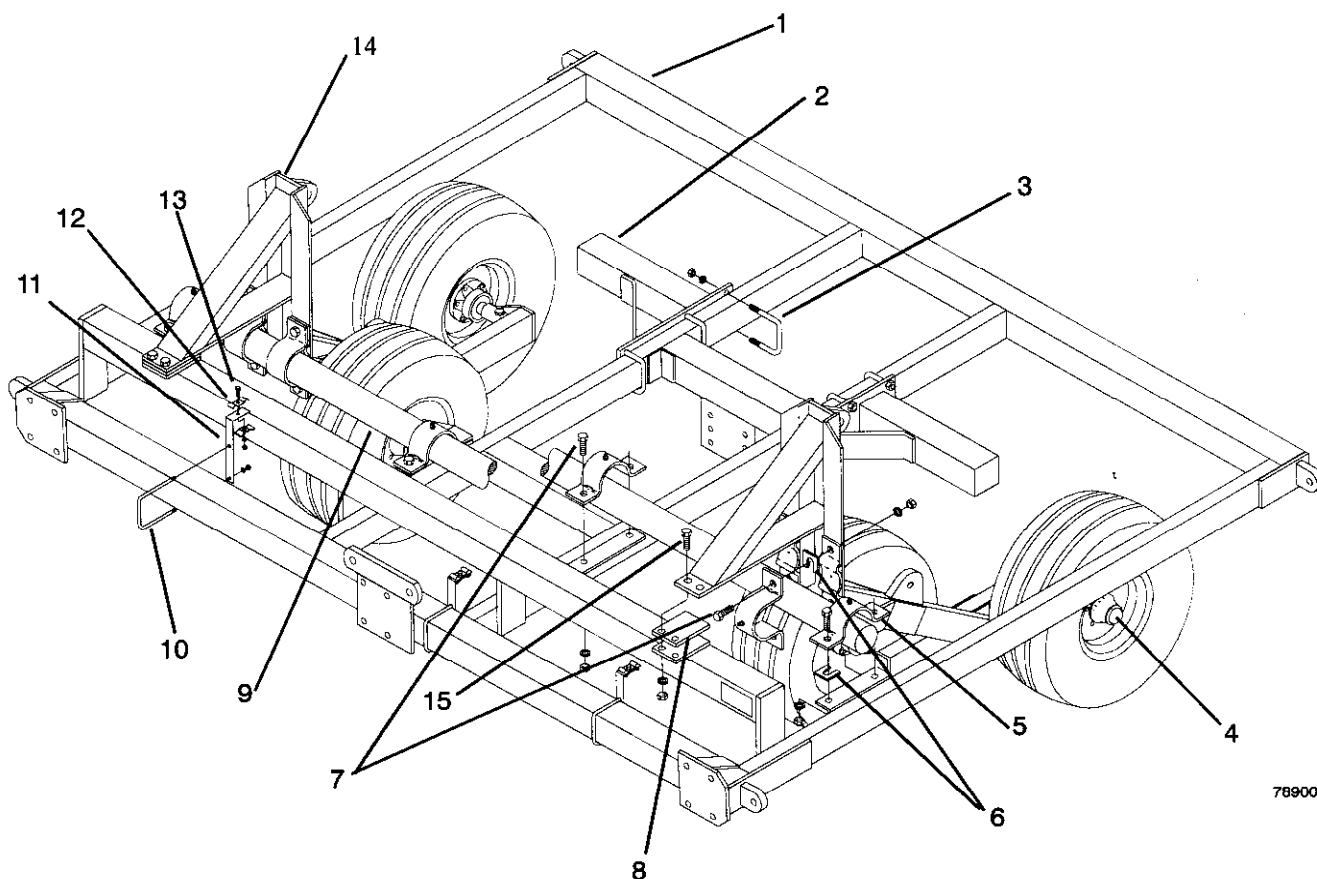
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The diagram shows an exploded view of a 4800 Chisel Plow chassis. Key components are labeled with leader lines pointing to their locations on the chassis. The labels include: Hydraulic Cylinders (24-27), Hubs & Spindles (30-31), 1-3/4" & 2" Walking Tandems (32-33), 4800 Decals (40), Wing Rest (14), Hydraulics (15-23), Wing Lift Linkage (12), 10' Main Frame (4), 13' Main Frame (5), 10' MF Short Main Pole (6), 13' Main Frame Pole (7), and Wings (8-13).

Hydraulic Cylinders	24-27
Hubs & Spindles	30-31
1-3/4" & 2" Walking Tandems	32-33
4800 Decals.....	40
Wing Rest.....	14
Hydraulics	15-23
Wing Lift Linkage	12
10' Main Frame	4
13' Main Frame	5
10' MF Short Main Pole	6
13' Main Frame Pole	7
Wings	8-13

10' MAIN FRAME



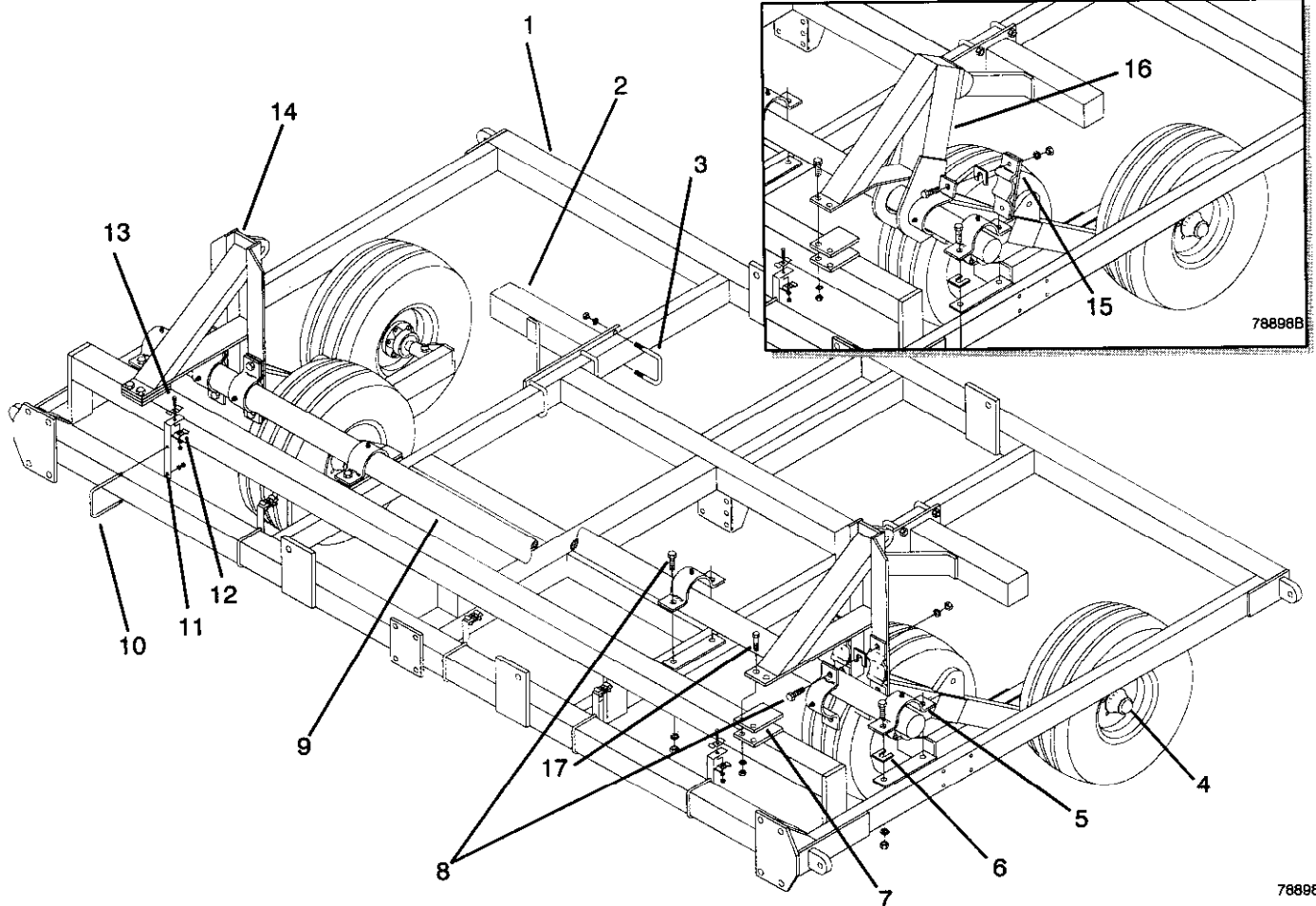
78900

ITEM	PART NO	DESCRIPTION
1	61883	4800 10FT Main Frame
2	61953	19-1/2" Stub
3	88388	5/8NCx4x3-1/4 U-Bolt
4	41233	1-3/4 Hub & Spindle
5	10399	Axle Cap
6	10176	Spacer
7	89071	7/8NCx2-1/2 GR8 Bolt
8	21175	Shim Plate

ITEM	PART NO	DESCRIPTION
9	61930	4810 Main Axle (STD)
	61931	4810 Main Axle (HC)
10	88385	3/8NCx4x4-3/4 U-Bolt
11	13270	Pole Tube Bracket
12	13215	Tube Clamp
13	88553	3/8NCx1-1/2 GR5 Bolt
14	61890	Main Axle Mast
15	88404	3/4NCx2-1/2 GR5 Bolt

See page 32 for 1-3/4" x 22 Walking Tandem Components.

13' MAIN FRAME

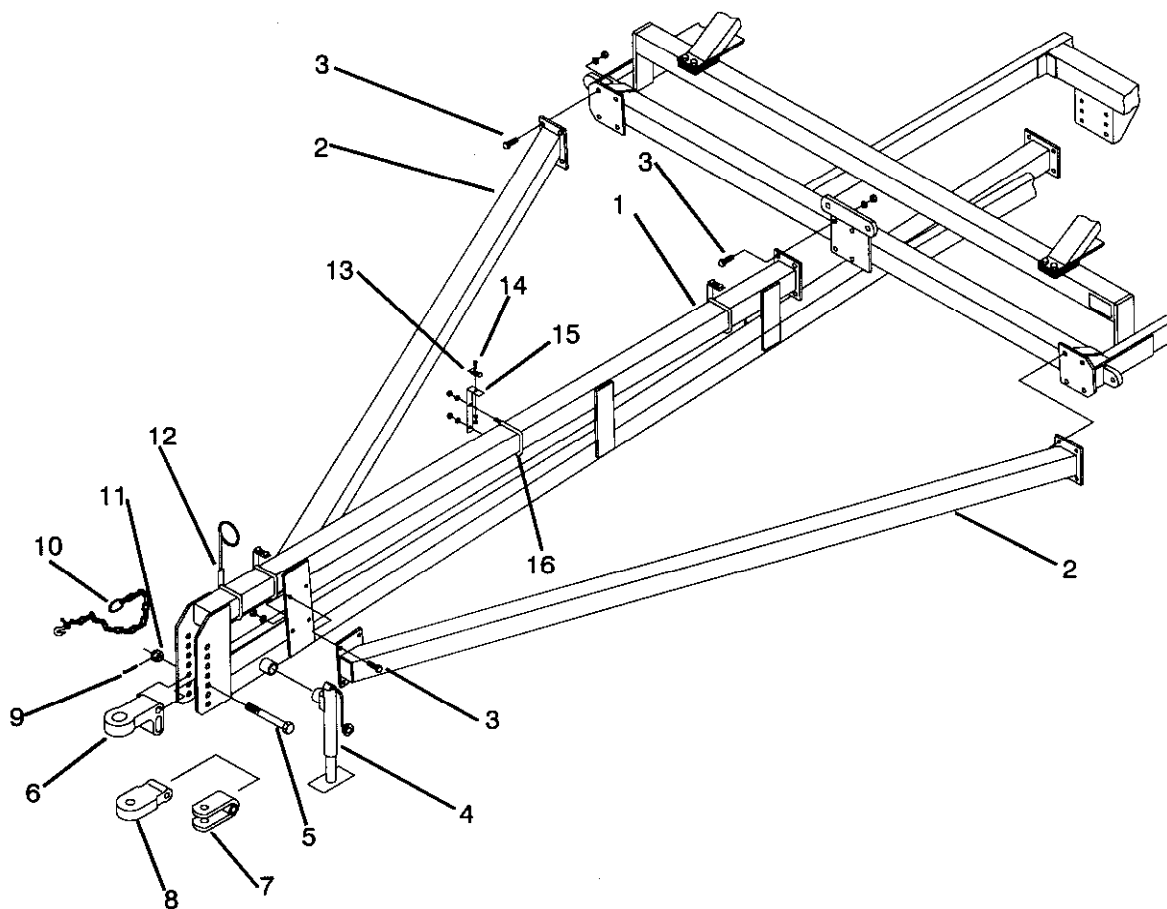


ITEM	PART NO	DESCRIPTION
1	61476	4830 Main Frame
2	61953	19-1/2" Stub
3	88388	5/8NCx4x3-1/4 U-Bolt
4	14131	2" Hub & Spindle Assy
5	10399	Axle Cap
6	10176	Spacer
7	21175	Shim Plate
8	89071	7/8NCx2-1/2 GR8 Bolt
9	61482	4830 Main Axle (STD)
	61484	4830 Main Axle (HC)

ITEM	PART NO	DESCRIPTION
10	88385	3/8NCx4x4-3/4 U-Bolt
11	13270	Pole Tube Bracket
12	13215	Tube Clamp
13	88553	3/8NCx1-1/2 GR5 Bolt
14	61890	Main Axle Mast (For MF w/4' & 6' Wings)
15	21375	Axle Saddle Assembly (For MF w/9' & 12' Wings)
16	61579	Main Axle Mast (For MF w/9' & 12' Wings)
17	88404	3/4NCx2-1/2 GR5 Bolt

See page 33 for 2" x 22 Walking Tandem Components.

10' MF SHORT MAIN POLE

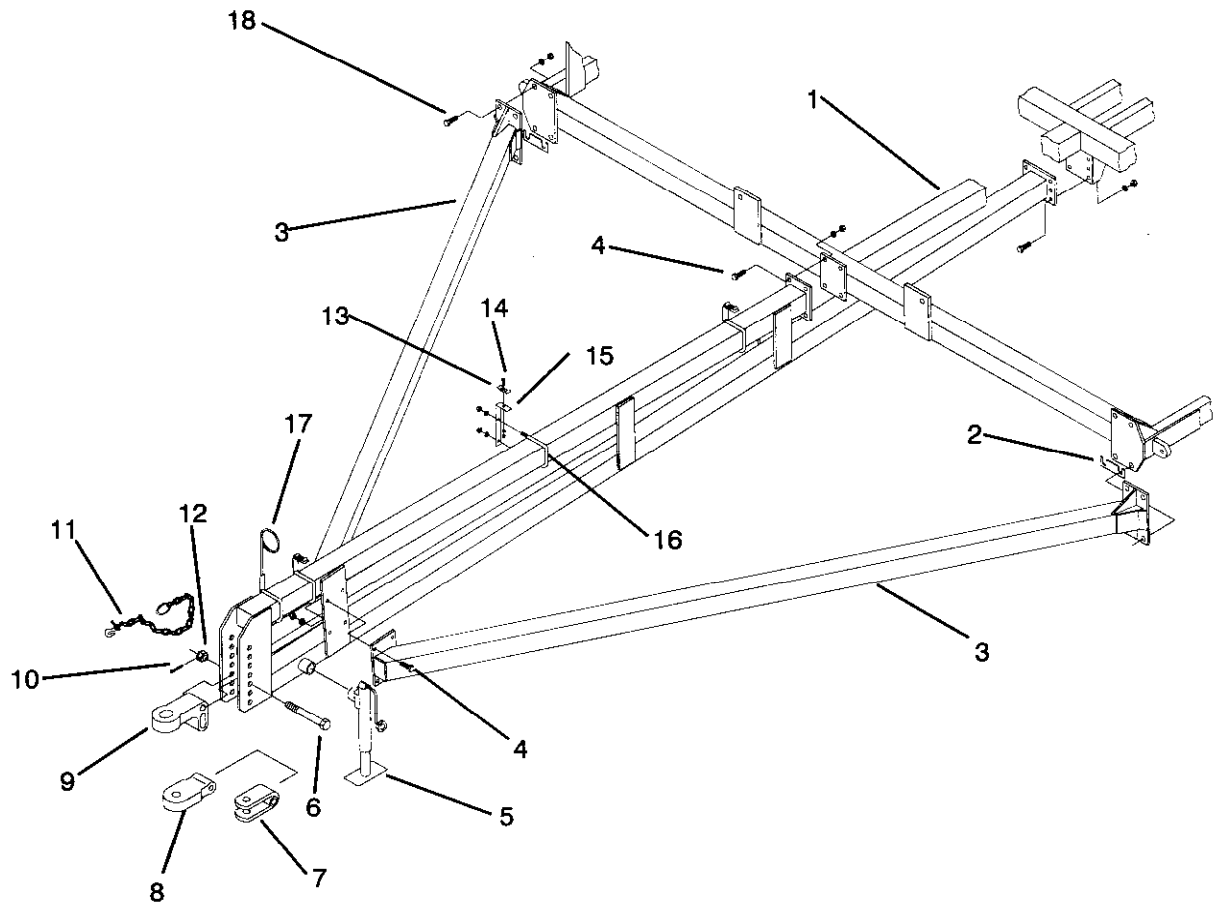


78900A

ITEM	PART NO	DESCRIPTION
1	41374	4410 Compact Main Pole
	41423	4400 Short Main Pole
2	16209	10 CPW Compact Pole Brace
	14797	10 CPW Short Pole Brace
3	88290	3/4NCx2 GR8 Bolt
4	12796	Pole Jack
5	11638	Hitch Bolt
6	18236	Cast Dual Hitch
7	11364	Clevis Hitch
8	18237	Cast Hitch

ITEM	PART NO	DESCRIPTION
9	88133	3/16x2 Cotter Pin
10	24459	Safety Chain
11	88350	1-1/4NC Slotted Nut
12	12724	Hose Bracket Assy
13	13215	Tube Clamp
14	88553	3/8NCx1-1/2 GR5 Bolt
15	13270	Pole Tube Bracket
16	88385	3/8NCx4x4-3/4 U-Bolt

13' MAIN FRAME



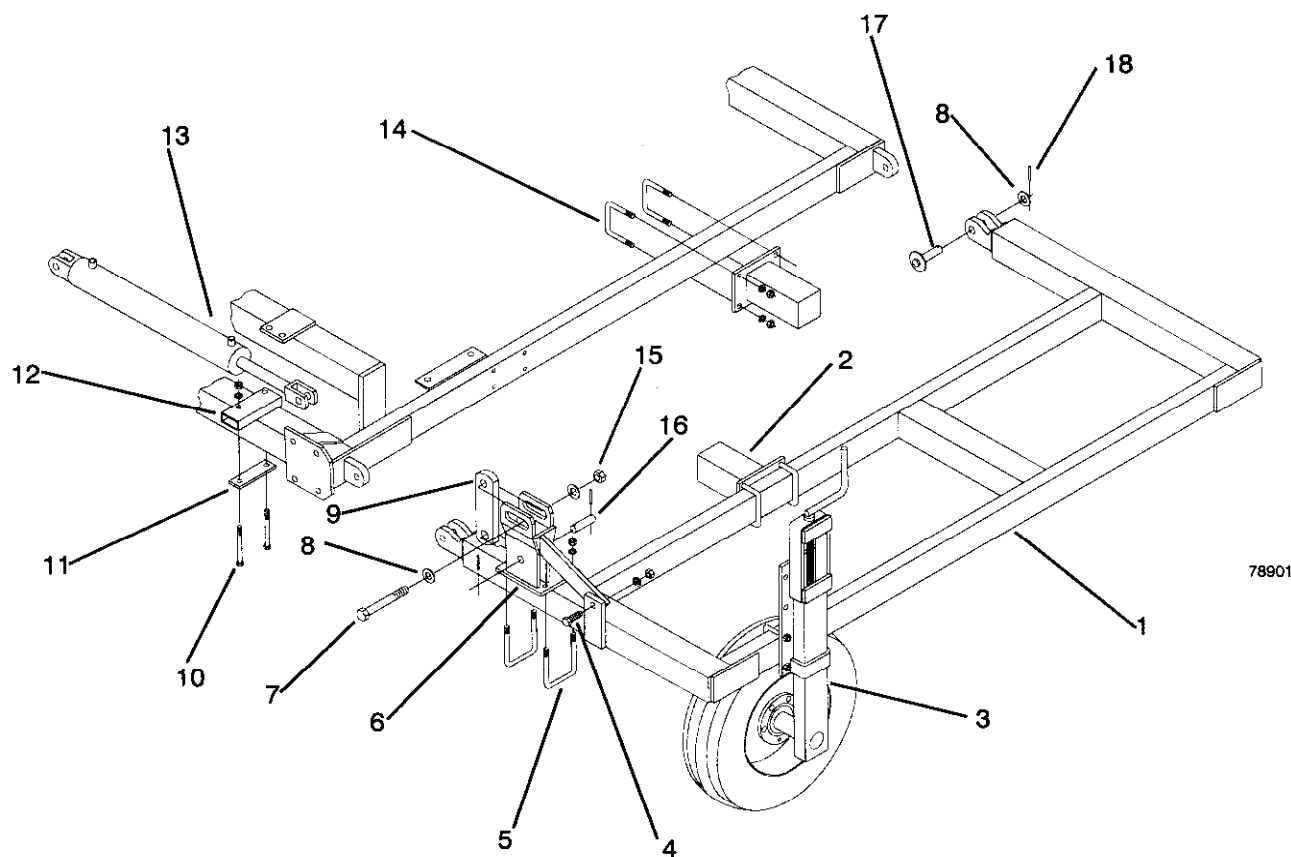
ITEM	PART NO	DESCRIPTION
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1	61477	4800 Short Main Pole
	61478	4830 Long Main Pole
2	62103	Shim
3	61479	4830 Short Pole Brace
	61480	4830 Long Pole Brace
4	88290	3/4NCx2 GR8 Bolt
5	12796	Pole Jack
6	11638	Hitch Bolt
7	11364	Clevis Hitch
8	18237	Cast Hitch

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

9	18236	Cast Dual Hitch
10	88133	3/16x2 Cotter Pin
11	24459	Safety Chain
12	88350	1-1/4 NC Slotted Nut
13	13215	Tube Clamp
14	88553	3/8NCx1-1/2 GR5 Bolt
15	13270	Pole Tube Bracket
16	88385	3/8NCx4x4-3/4 U-Bolt
17	12724	Hose Bracket Assy
18	89071	7/8NCx2-1/2 GR8 Bolt

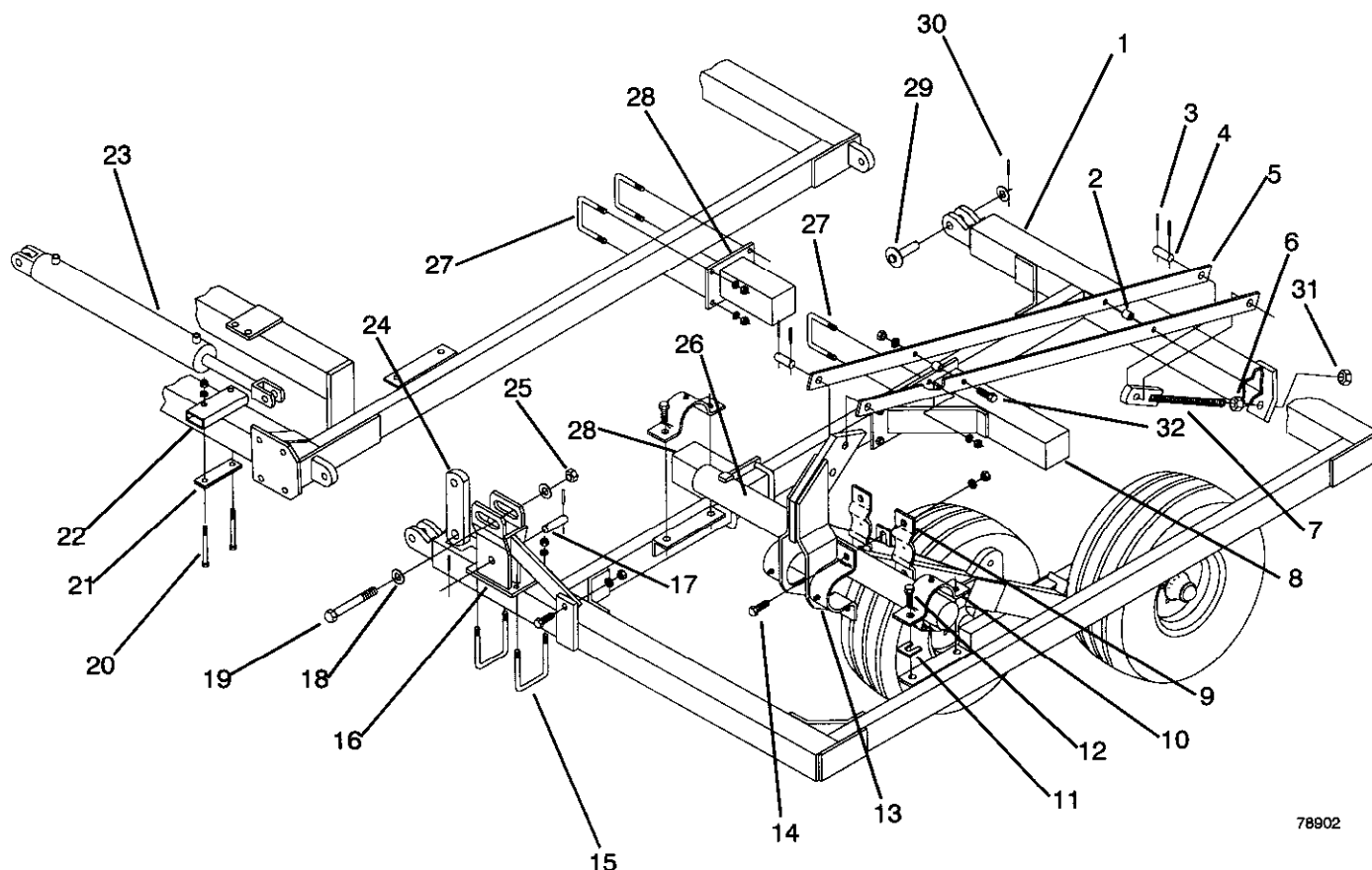
4' WING



78901

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
1	61895	Right 4FT Wing	9	54156	Wing Lift Link (9.09")
	61896	Left 4FT Wing	10	88383	5/8NCx7 GR5 Bolt
2	13963	Main Frame 1FT Stub	11	19834	Plate
3		Gauge Wheel (See Pages 37 & 38)	12	61917	Tube
4	88404	3/4NCx2-1/2 GR5 Bolt	13	51229	4x30 Hydraulic Cylinder
5	88145	5/8NCx4x5-1/2 U-Bolt	14	88388	5/8NCx4x3-1/4 U-Bolt
6	61910	Right Wing Lift Bracket	15	88348	1NC Lock Nut
	61911	Left Wing Lift Bracket	16	42472	Cylinder Pin
7	88312	1NCx5 GR5 Bolt	17	12217	Hinge Pin Assy
8	88196	1" Flat Washer	18	88101	1/4x2-1/2 Cotter Pin

6' WING



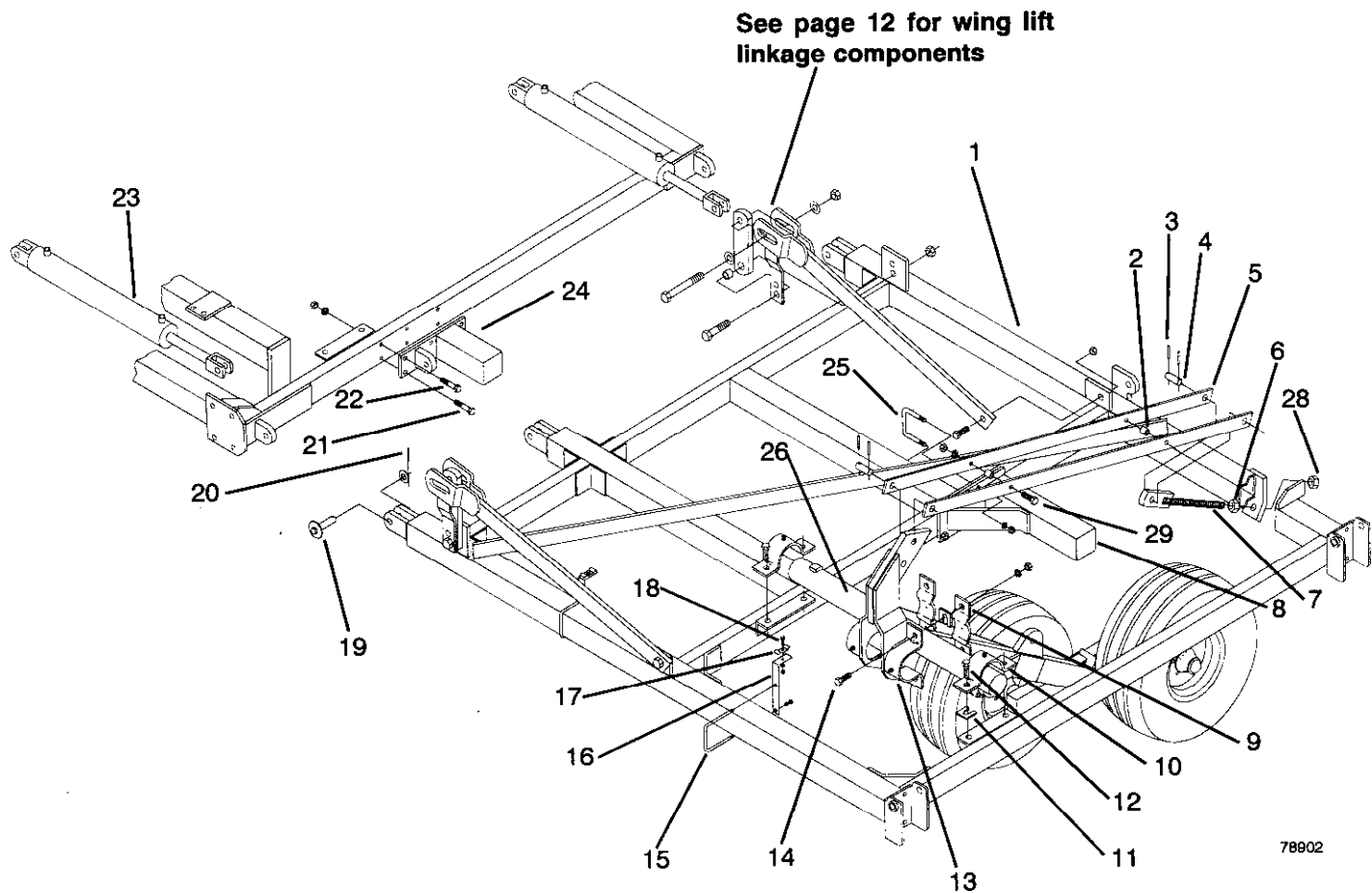
78902

ITEM	PART NO	DESCRIPTION
1	61898	4800 Left 6' Wing
	61897	4800 Right 6' Wing
2	48672	5th Bar Hinge Bushing
3	42484	Cylinder Lock Pin
4	49874	Pin
5	61588	4800 Mast Strap
6	88141	1NC Jam Nut
7	48740	Wing Mast Adjustment
8	61949	18" Stub
9	21375	Axle Saddle Assy (Wing)
10	10399	Axle Cap
11	10176	Spacer
12	89071	7/8NCx2-1/2 GR8 Bolt
13	61580	Wing Axle Mast
14	88404	3/4NCx2-1/2 GR5 Bolt
15	88145	5/8NCx4x5-1/4 U-Bolt
16	61911	Left Wing Lift Bracket
	61910	Right Wing Lift Bracket

ITEM	PART NO	DESCRIPTION
17	42472	Cylinder Pin
18	88196	1" Flat Washer
19	88312	1NCx5 GR5 Bolt
20	88383	5/8NCx7 GR5 Bolt
21	19834	Plate
22	61917	Tube
23	51229	4x30 Hydraulic Cylinder
24	54156	Wing Link (9.09")
25	88348	1NC Lock Nut
26	61566	Left Wing Axle Assy
	61565	Right Wing Axle Assy
27	88388	5/8NCx4x3-1/4 U-Bolt
28	13963	Main Frame 1' Stub
29	12217	Hinge Pin Assy
30	88101	1/4x2-1/2 Cotter Pin
31	88125	1NC Nut
32	88537	5/8NCx2-3/4 GR5 Bolt

See page 32 for 1-3/4" x 22 Walking Tandem Components.

9' WING



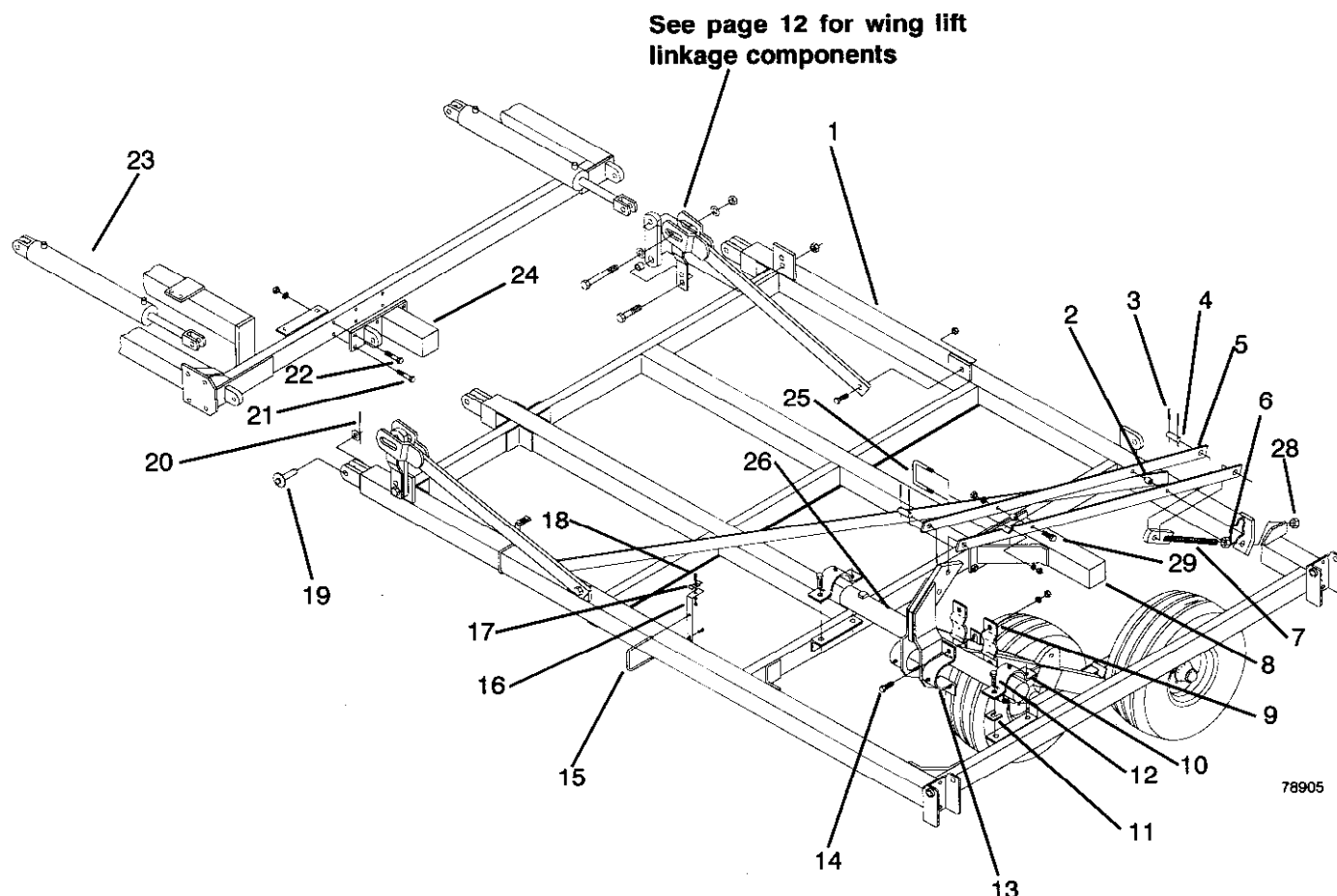
78902

ITEM	PART NO	DESCRIPTION
1	61551	4800 Left 9' Wing
	61550	4800 Right 9' Wing
2	48672	5th Bar Hinge Bushing
3	42484	Cylinder Lock Pin
4	49874	Pin
5	61588	4800 Mast Strap
6	88141	1NC Jam Nut
7	48740	Wing Mast Adjustment
8	61949	18" Stub
9	21375	Axle Saddle Assy (Wing)
10	10399	Axle Cap
11	10176	Spacer
12	89071	7/8NCx2-1/2 GR8 Bolt
13	61580	Wing Axle Mast
14	88404	3/4NCx2-1/2 GR5 Bolt
15	88385	3/8NCx4x4-3/4 U-Bolt
16	13270	Pole Tube Bracket

ITEM	PART NO	DESCRIPTION
17	13215	Tube Clamp
18	88553	3/8NCx1-1/2 GR5 Bolt
19	12217	Hinge Pin Assy
20	88101	1/4x2-1/2 Cotter Pin
21	88292	5/8NCx3-1/2 GR5 Bolt
22	88298	5/8NCx4 GR5 Bolt
23	51229	4x30 Hydraulic Cylinder
24	61510	Hinge Weldment
25	88388	5/8NCx4x3-1/4 U-Bolt
26	61566	Left Wing Axle Assy
	61565	Right Wing Axle Assy
27	61493	Right Wing Lift
	61494	Left Wing Lift
28	88125	1NC Nut
29	88537	5/8NCx2-3/4 GR5 Bolt

See page 32 for 1-3/4" x 22 Walking Tandem Components.

12' WING

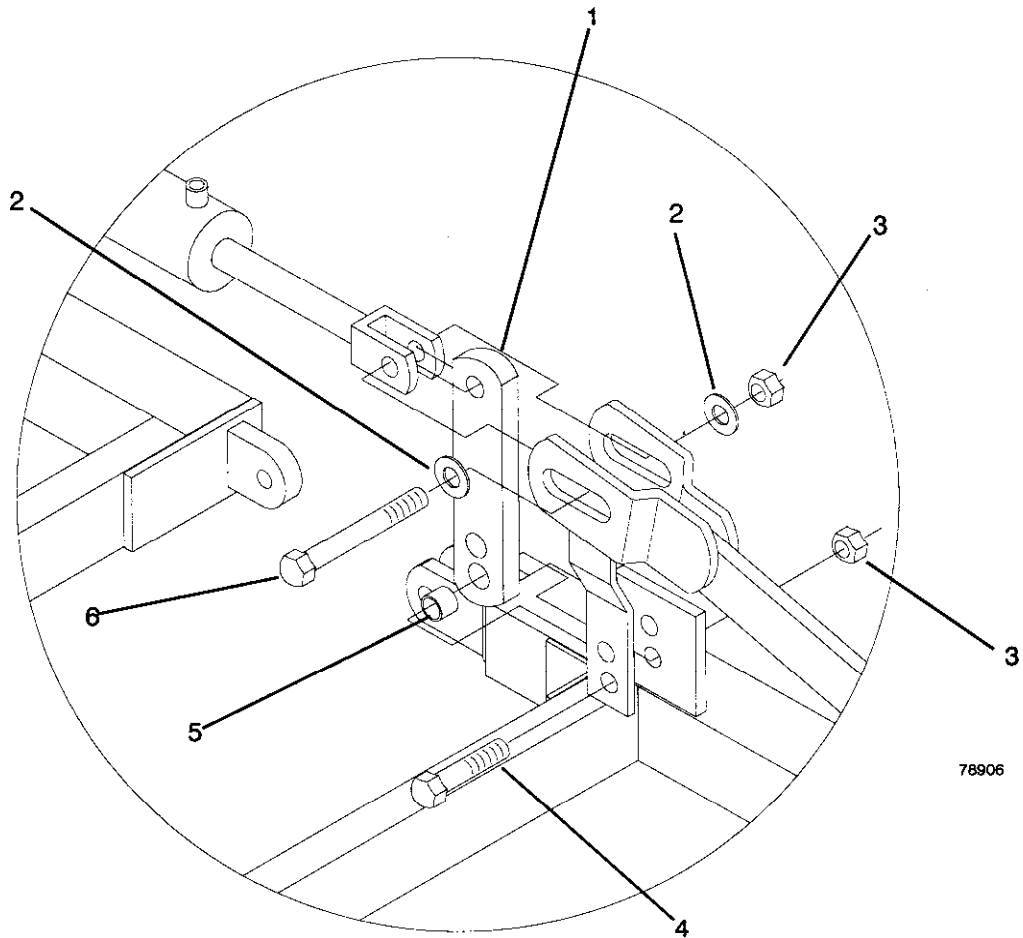


ITEM	PART NO	DESCRIPTION
1	61491	4800 Left 12' Wing
	61490	4800 Right 12' Wing
2	48672	5th Bar Hinge Bushing
3	42484	Cylinder Lock Pin
4	49874	Pin
5	61588	4800 Mast Strap
6	88141	1NC Jam Nut
7	48740	Wing Mast Adjustment
8	61949	18" Stub
9	21375	Axle Saddle Assy (Wing)
10	10399	Axle Cap
11	10176	Spacer
12	89071	7/8NCx2-1/2 GR8 Bolt
13	61580	Wing Axle Mast
14	88404	3/4NCx2-1/2 GR5 Bolt
15	88385	3/8NCx4x4-3/4 U-Bolt
16	13270	Pole Tube Bracket

ITEM	PART NO	DESCRIPTION
17	13215	Tube Clamp
18	88553	3/8NCx1-1/2 GR5 Bolt
19	12217	Hinge Pin Assy
20	88101	1/4x2-1/2 Cotter Pin
21	88292	5/8NCx3-1/2 GR5 Bolt
22	88298	5/8NCx4 GR5 Bolt
23	51229	4x30 Hydraulic Cylinder
24	61510	Hinge Weldment
25	88388	5/8NCx4x3-1/4 U-Bolt
26	61566	Left Wing Axle Assy
	61565	Right Wing Axle Assy
27	61493	Right Wing Lift Assy
	61494	Left Wing Lift Assy
28	88125	1NC Nut
29	88537	5/8NCx2-3/4 GR5 Bolt

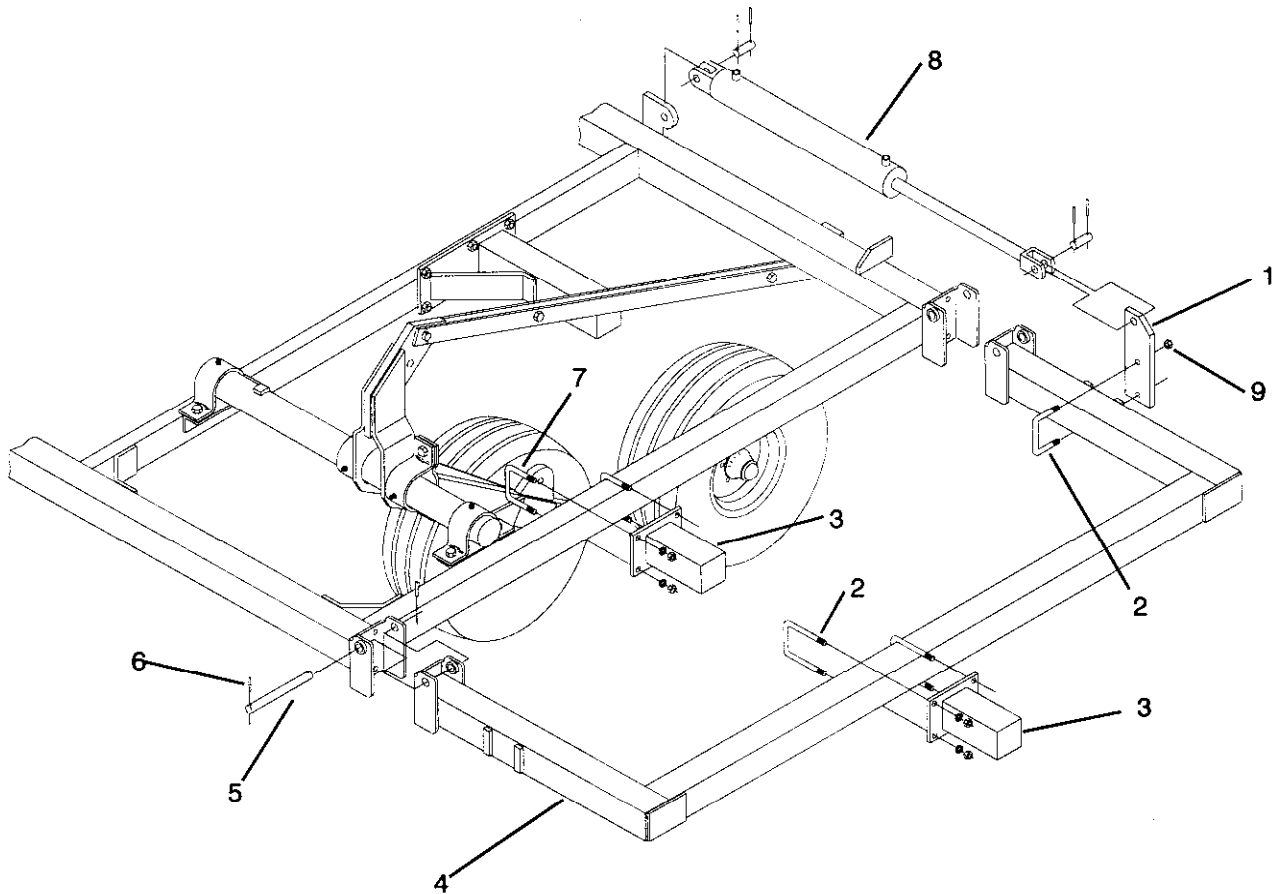
See page 32 for 1-3/4" x 22 Walking Tandem Components.

WING LIFT LINKAGE



ITEM	PART NO	DESCRIPTION
1	54156	Wing Link (9.09") (4' & 6' Wing)
	61506	Wing Lift Link (9' & 12' Wing)
2	88196	1" Flat Washer
3	88348	1NC Lock Nut
4	88447	1NCx3-1/2 GR5 Bolt
5	48523	Wing Lift Bushing
6	88312	1NCx5 GR5 Bolt

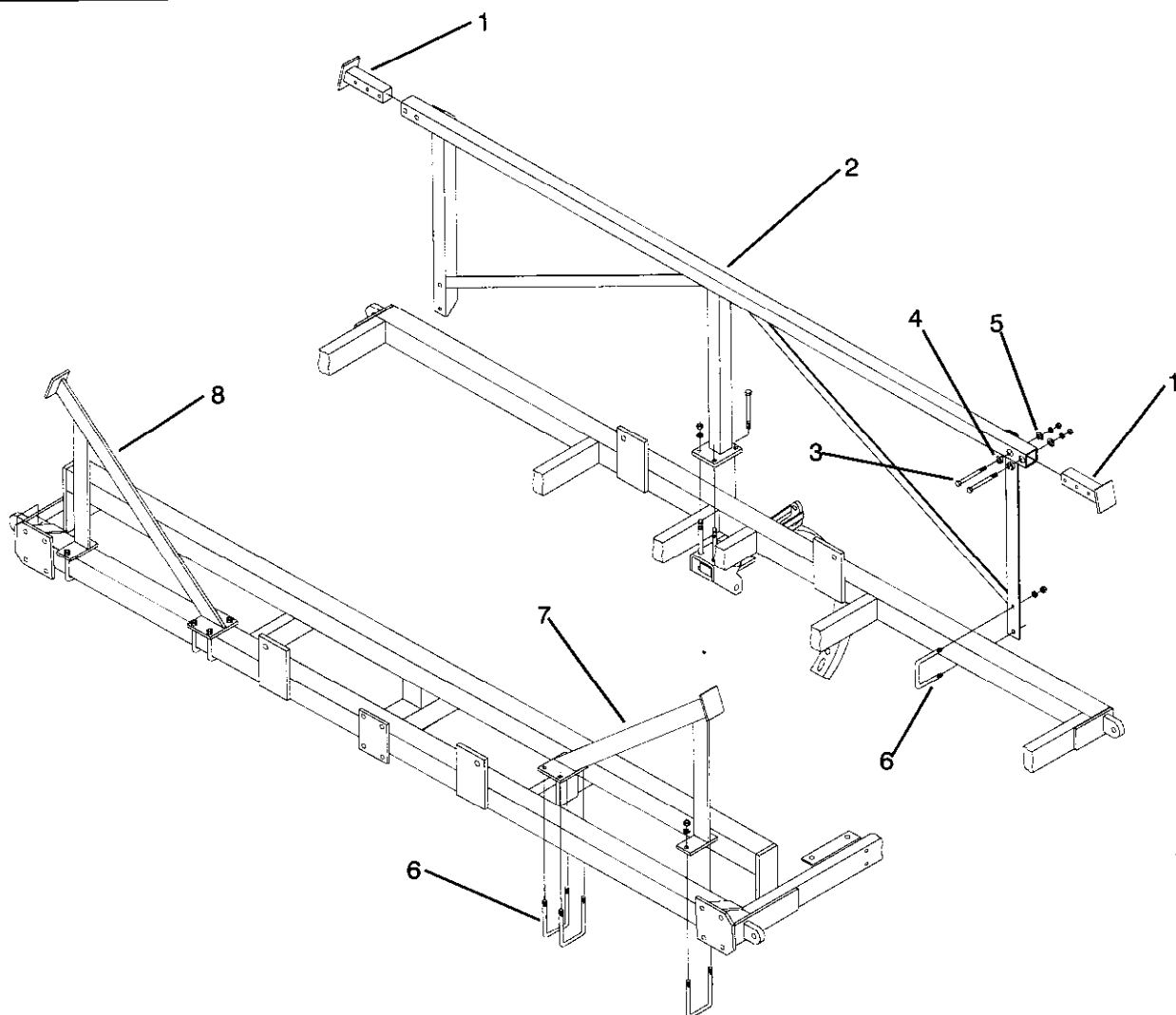
3FT OUTER WING



78907

ITEM	PART NO	DESCRIPTION
1	13401	Cylinder Anchor Plate
2	88145	5/8NCx4x5-1/4 U-Bolt
3	13963	Main Frame 1FT Stub
4	61492	3' 4800 Wing
5	14408	Hinge Pin
6	88432	5/16x2 Roll Pin
7	88501	5/8NCx4x4-1/4 U-Bolt
8	51241	3x24 Hydraulic Cylinder
9	88369	5/8NC Lock Nut

WING REST

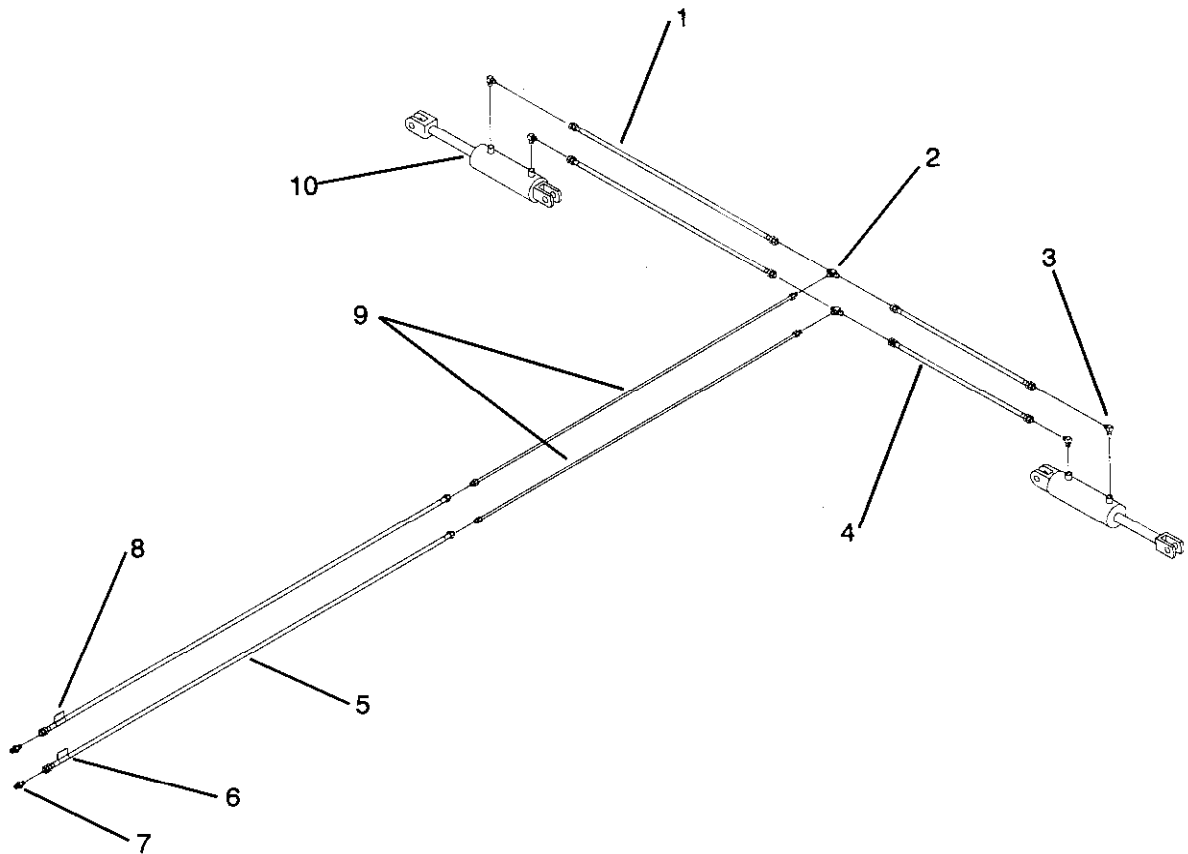


78908

ITEM	PART NO	DESCRIPTION
1	61523	Wing Support
2	61489	4830 Wing Rest (134.31)
3	88507	1/2NCx3-1/2 GR5 Bolt
4	33659	Bushing (3/4ODx.510 IDx 3/8 Thick)
5	88437	1/2 Lock Washer
6	88145	5/8NCx4x5-1/4 U-Bolt
7	61522	4800 13CPW Wing Rest Left
8	61521	4800 13CPW Wing Rest Right

WING LIFT HYDRAULICS

4' & 6' Wings



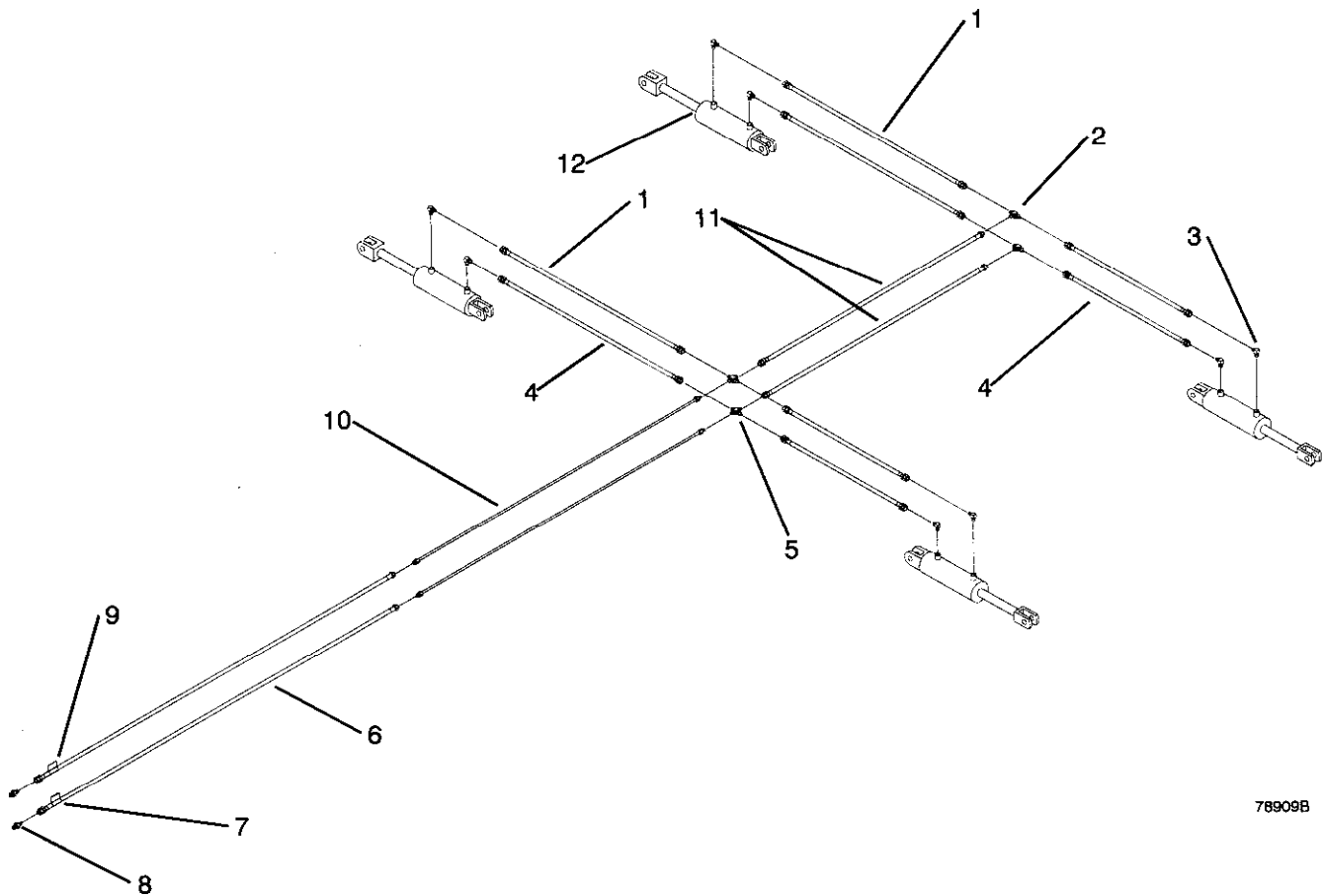
78909

ITEM	PART NO	DESCRIPTION
1	15515	3/8x62 Hose (FF)
2	13238	3/4JIC Tube Tee
3	13235	3/4JICx3/8NPT Port Elbow
4	13261	3/8x30 Hose (FF)
5	13267	3/8x72 Hose (MF) (SP) (not used with XSP)
6	54901	Wings Down Decal
7	13234	3/4JICx1/2NPT Coupler Adapter
8	54900	Wings Up Decal
9	15811	1/2x65 Hyd Tube (SP)
	13253	1/2x120 Hyd Tube (XSP)
10	51229	4x30 Hydraulic Cylinder

SP Short Pole
XSP Extra Short Pole

SHORT POLE WING LIFT HYDRAULICS

9' & 12' Wings

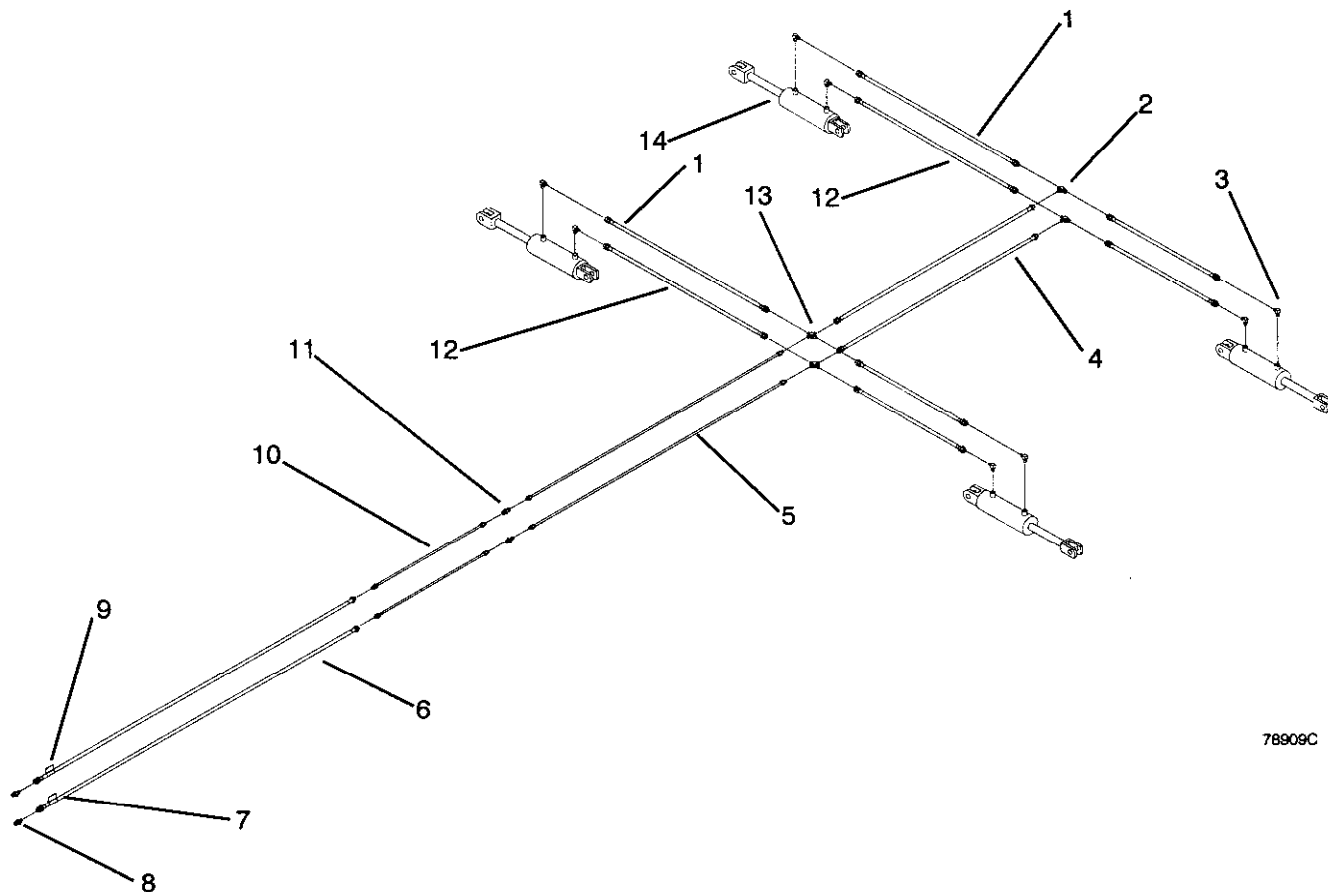


78909B

ITEM	PART NO	DESCRIPTION
1	15515	3/8x62 Hose (FF)
2	13238	3/4JIC Tube Tee
3	13235	3/4JICx3/8NPT Port Elbow
4	13261	3/8x30 Hose (FF)
5	15910	1/2 Tube Cross
6	13267	3/8x72 Hose (MF)
7	54901	Wings Down Decal
8	13234	3/4JICx1/2NPT Coupler Adapter
9	54900	Wings Up Decal
10	13253	1/2x120 Hyd Tube
11	25603	3/8x75 Hose (FF)
12	51229	4x30 Hydraulic Cylinder

LONG POLE WING LIFT HYDRAULICS

9' & 12' Wings

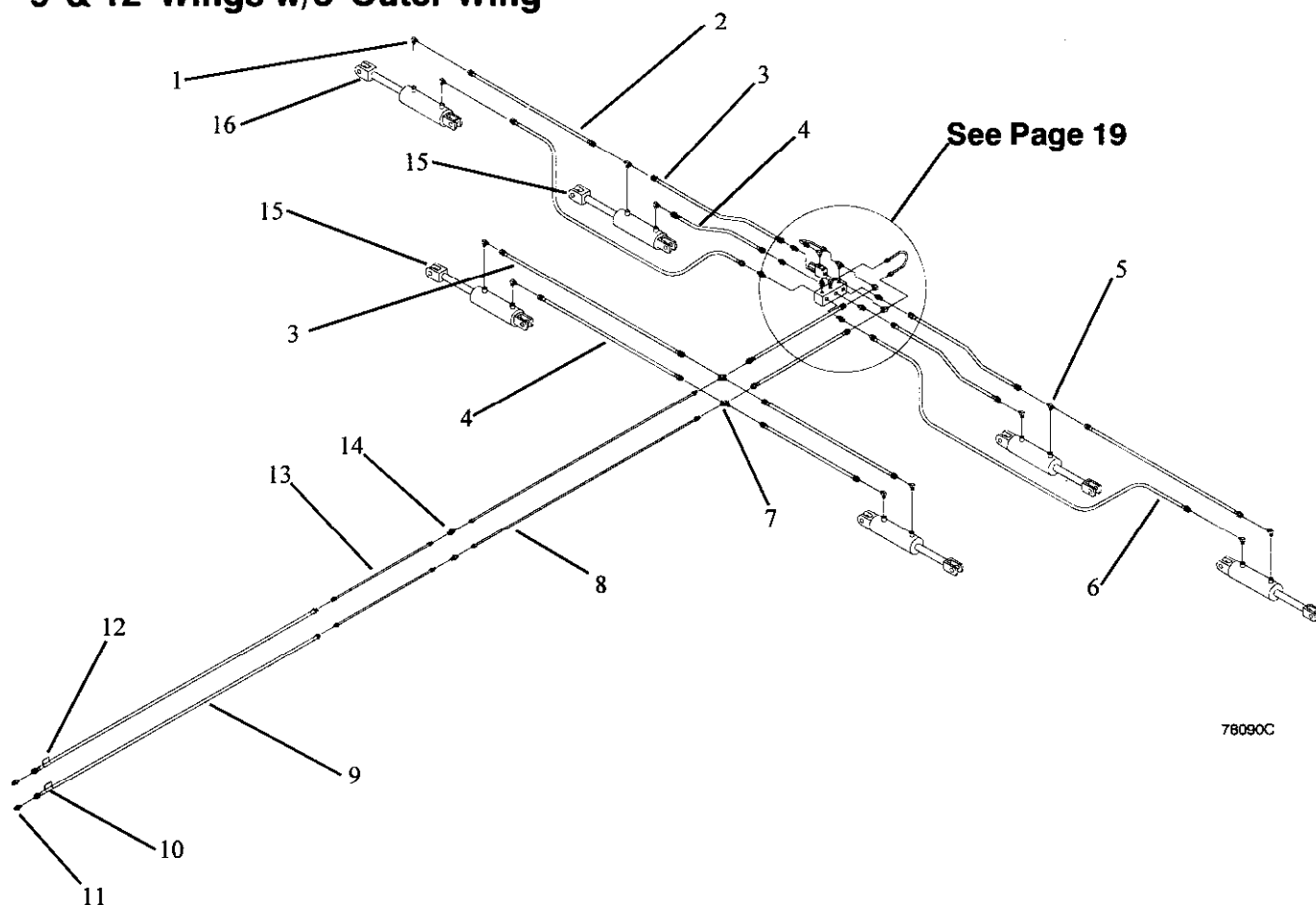


78909C

ITEM	PART NO	DESCRIPTION
1	13261	3/8x30 Hose (FF)
2	13238	3/4JIC Tube Tee
3	13235	3/4JICx3/8NPT Port Elbow
4	25603	3/8x75 Hose (FF)
5	13253	1/2x120 Hyd Tube
6	13267	3/8x72 Hose (MF)
7	54901	Wings Down Decal
8	13234	3/4JICx1/2NPT Coupler Adapter
9	54900	Wings Up Decal
10	13287	1/2x38 Hyd Tube
11	13239	3/4JIC Union
12	15515	3/8x62 Hose (FF)
13	15910	1/2 Tube Cross
14	51229	4x30 Hydraulic Cylinder

WING LIFT HYDRAULICS

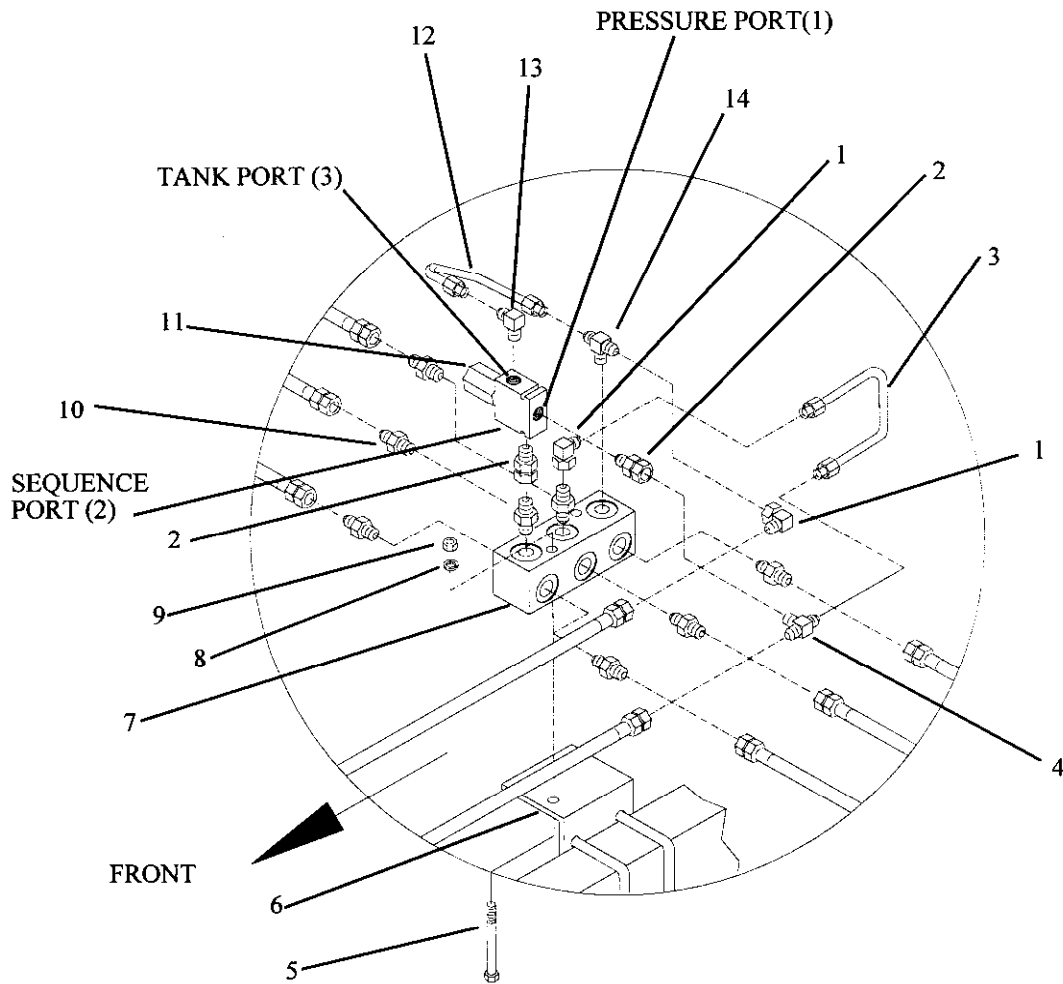
9' & 12' Wings w/3' Outer Wing



78090C

ITEM	PART NO	DESCRIPTION
1	13235	3/4JICx3/8NPT Port Elbow
2	13483	3/8x120 Hose (FF)
3	15515	3/8x62 Hose (FF)
4	13261	3/8x30 Hose (FF)
5	13237	3/8 Cylinder Port Tee
6	13484	3/8x156 Hose (FF)
7	15910	1/2 Tube Cross
8	13253	1/2x120 Hyd Tube
9	13267	3/8x72 Hose (MF)
10	54901	Wings Down Decal
11	13234	3/4JICx1/2NPT Coupler Adapter
12	54900	Wings Up Decal
13	13287	1/2x38 Hyd Tube
14	13239	3/4 JIC Union
15	51229	4x30 Hydraulic Cylinder
16	51241	3x24 Hydraulic Cylinder

TEE BLOCK PLUMBING

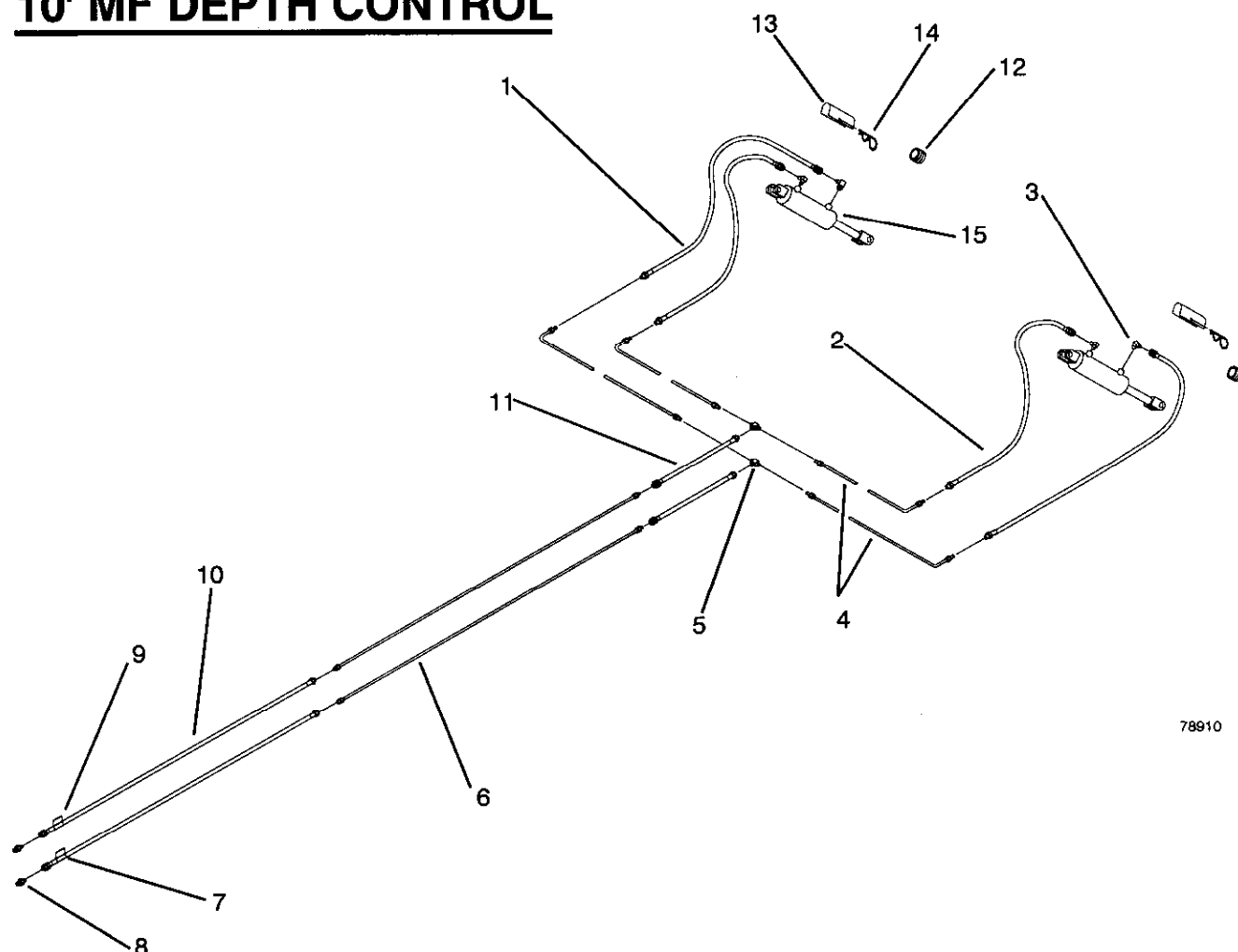


78909D

ITEM	PART NO	DESCRIPTION
1	25591	3/4JICx3/4JIC Swivel (MF)
2	24004	Hydraulic Fitting Adapter
3	56538	1/2x3-1/4 U-Hyd Tube
4	13238	3/4JIC Tube Tee
5	88531	3/8NCx3 GR5 Bolt
6	56536	Manifold Block Mount
7	56535	Manifold Block

ITEM	PART NO	DESCRIPTION
8	88362	3/8 Lock Washer
9	88103	3/8NC Nut
10	24024	3/4JICx3/4ORB Adapter
11	51655	Sequence Valve
12	56537	1/2x5-1/8 U-Hyd Tube
13	25580	3/4JICx3/4ORB Elbow
14	56534	3/4JICx3/4ORBx3/4JIC Tee

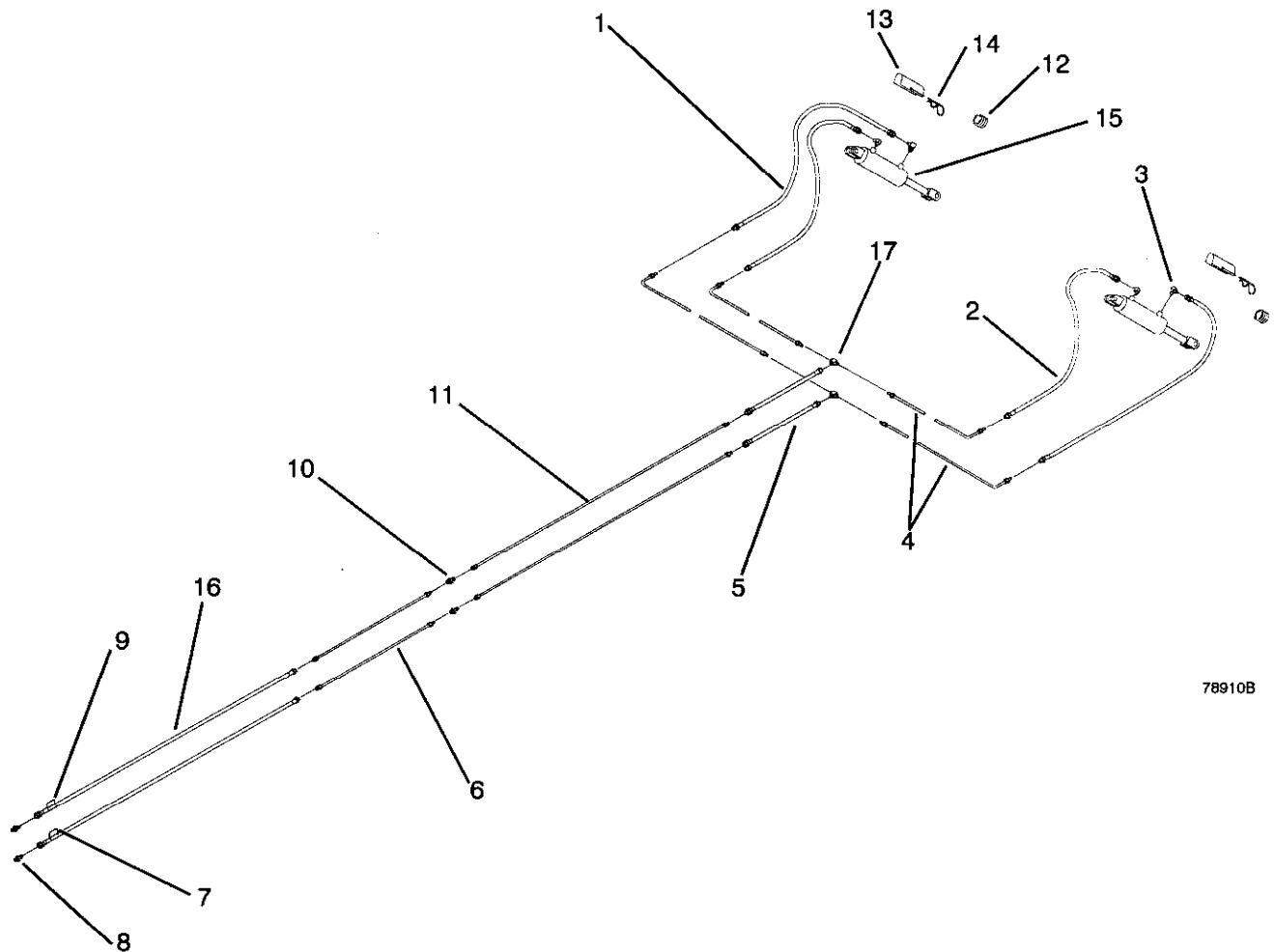
10' MF DEPTH CONTROL



78910

ITEM	PART NO	DESCRIPTION
1	13267	3/8x72 Hose (MF)
2	13264	3/8x48 Hose (MF)
3	13236	3/4JICx1/2NPT Port Elbow
4	21021	1/2x36+2 Hyd Tube
5	13238	3/4JIC Tube Tee
6	13253	1/2x120 Hyd Tube (SP)
	15811	1/2x65 Hyd Tube (XSP)
7	54902	Main Up Decal
8	13234	3/4JICx1/2NPT Coupler Adapter
9	54903	Main Down Decal
10	13267	3/8x72 Hose (MF)
11	13259	3/8x18 Hose (MF)
12	15113	1-1/2" Stop Collar Assy
13	13681	1-1/2" Cylinder Lock Channel
14	42721	1/4x5 Spring Lock Pin
15	42581	4x10.8 Top Bypass Cylinder

13' MF DEPTH CONTROL

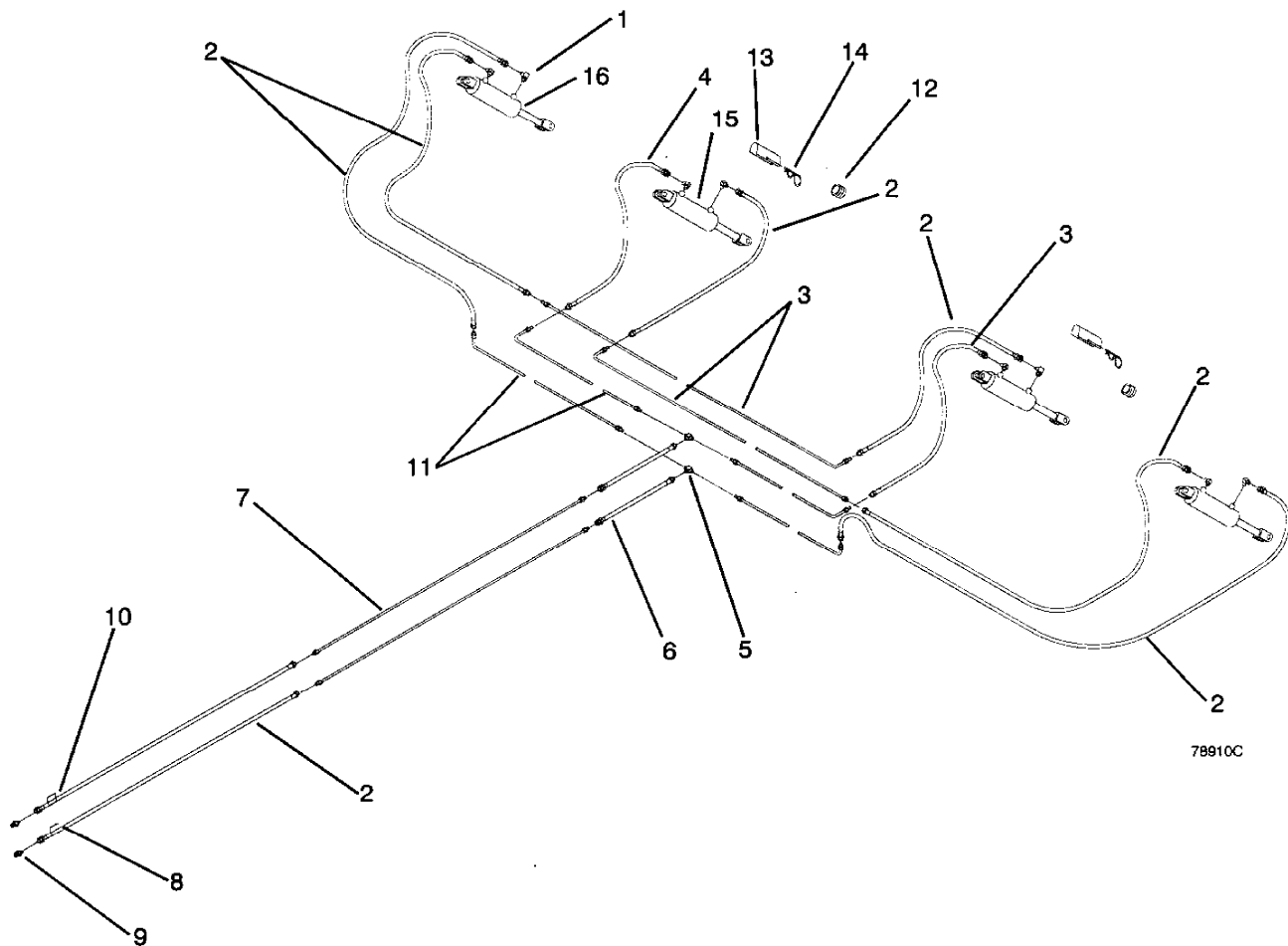


78910B

ITEM	PART NO	DESCRIPTION
1	13264	3/8x48 Hose (MF)
2	24671	3/8x44 Hose (MF)
3	13236	3/4JICx1/2NPT Port Elbow
4	21022	1/2x70+2 Hyd Tube
5	13259	3/8x18 Hose (MF)
6	13287	1/2x38 Hyd Tube
7	54902	Main Up Decal
8	13234	3/4JICx1/2NPT Coupler Adapter
9	54903	Main Down Decal
10	13239	3/4JIC Union
11	13253	1/2x120 Hyd Tube
12	15113	1-1/2" Stop Collar
13	13681	1-1/2" Cylinder Lock Channel
14	42721	1/4x5 Spring Lock Pin
15	42581	4x10.8 Top Bypass Cylinder
16	13267	3/8x72 Hose (MF)
17	13238	3/4JIC Tube Tee

10' MF DEPTH CONTROL

6' WING

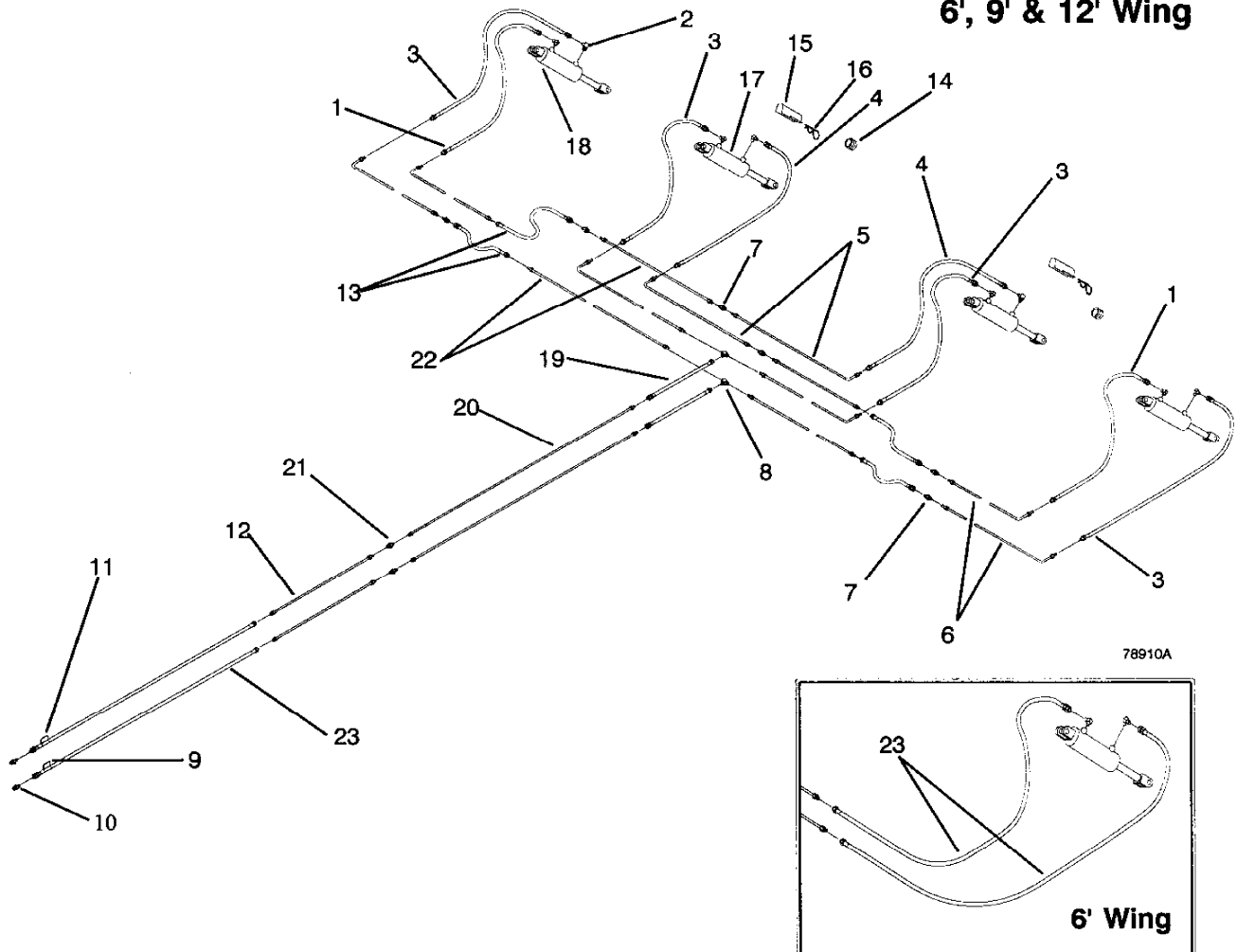


79910C

ITEM	PART NO	DESCRIPTION
1	13236	3/4 JIC x 1/2 NPT Port Elbow
2	13267	3/8 x 72 Hose (MF)
3	13286	1/2 x 94+2 Hyd Tube
4	13264	3/8 x 48 Hose (MF)
5	13238	3/4 JIC Tube Tee
6	13259	3/8 x 18 Hose (MF)
7	13253	1/2 x 120 Hyd Tube
8	54902	Main Up Decal
9	13234	3/4 JIC x 1/2 NPT Coupler Adapter
10	54903	Main Down Decal
11	21021	1/2 x 36+2 Hyd Tube
12	15113	1-1/2" Stop Collar
13	13681	1-1/2" Cylinder Lock Channel
14	42721	1/4 x 5 Spring Lock Pin
15	42581	4 x 10.8 Top Bypass Cylinder
16	42580	4 x 9.3 Top Bypass Cylinder

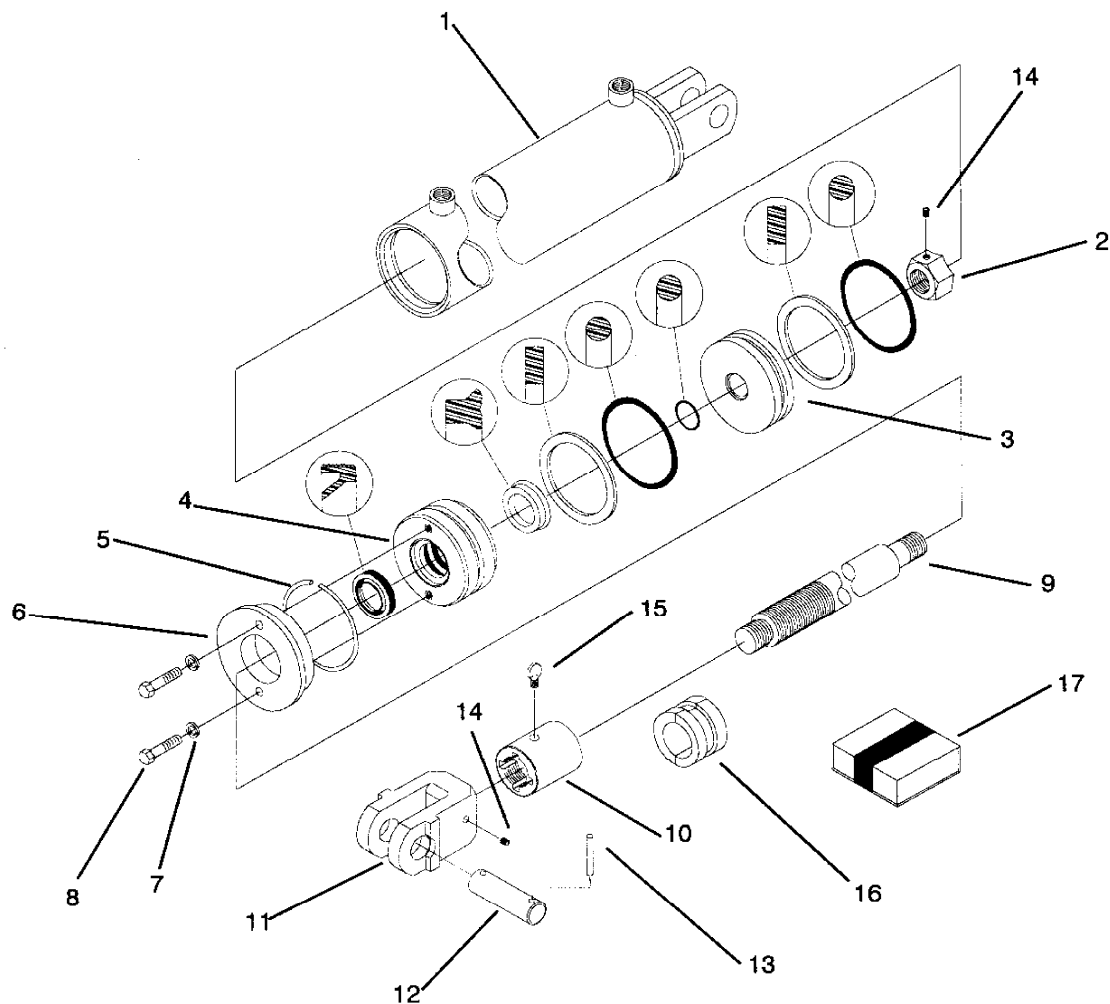
13' MF DEPTH CONTROL

6', 9' & 12' Wing



ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
1	13263	3/8x36 Hose (MF)(9' & 12' Wing)	11	54903	Main Down Decal
2	13236	3/4JICx1/2NPT Port Elbow	12	13287	1/2x38 Hyd Tube (Long Pole Only)
3	13264	3/8x48 Hose (MF)(9' & 12' Wing)	13	13263	3/8x36 Hose (MF)(9' & 12' Wings)
4	13266	3/8x60 Hose (MF)	14	15113	1-1/2" Stop Collar
5	21021	1/2x36+2 Hyd Tube	15	13681	1-1/2" Cylinder Lock Channel
6	13258	1/2x60+2 Hyd Tube (9' Wing)	16	42721	1/4x5 Spring Lock Pin
	13286	1/2x94+2 Hyd Tube (12' Wing)	17	42581	4x10.8 Top Bypass Cylinder
7	13239	3/4JIC Union	18	42580	4x9.3 Top Bypass Cylinder
8	13238	3/4JIC Tube Tee	19	13259	3/8x18 Hose (MF)
9	54902	Main Up Decal	20	13253	1/2x120 Hyd Tube
10	13234	3/4JICx1/2NPT Coupler Adapter	21	13239	3/4JIC Union (Long Pole Only)
			22	21037	1/2x72 Hyd Tube
			23	13267	3/8x72 Hose (MF)

4x9.3 TOP BYPASS CYLINDER

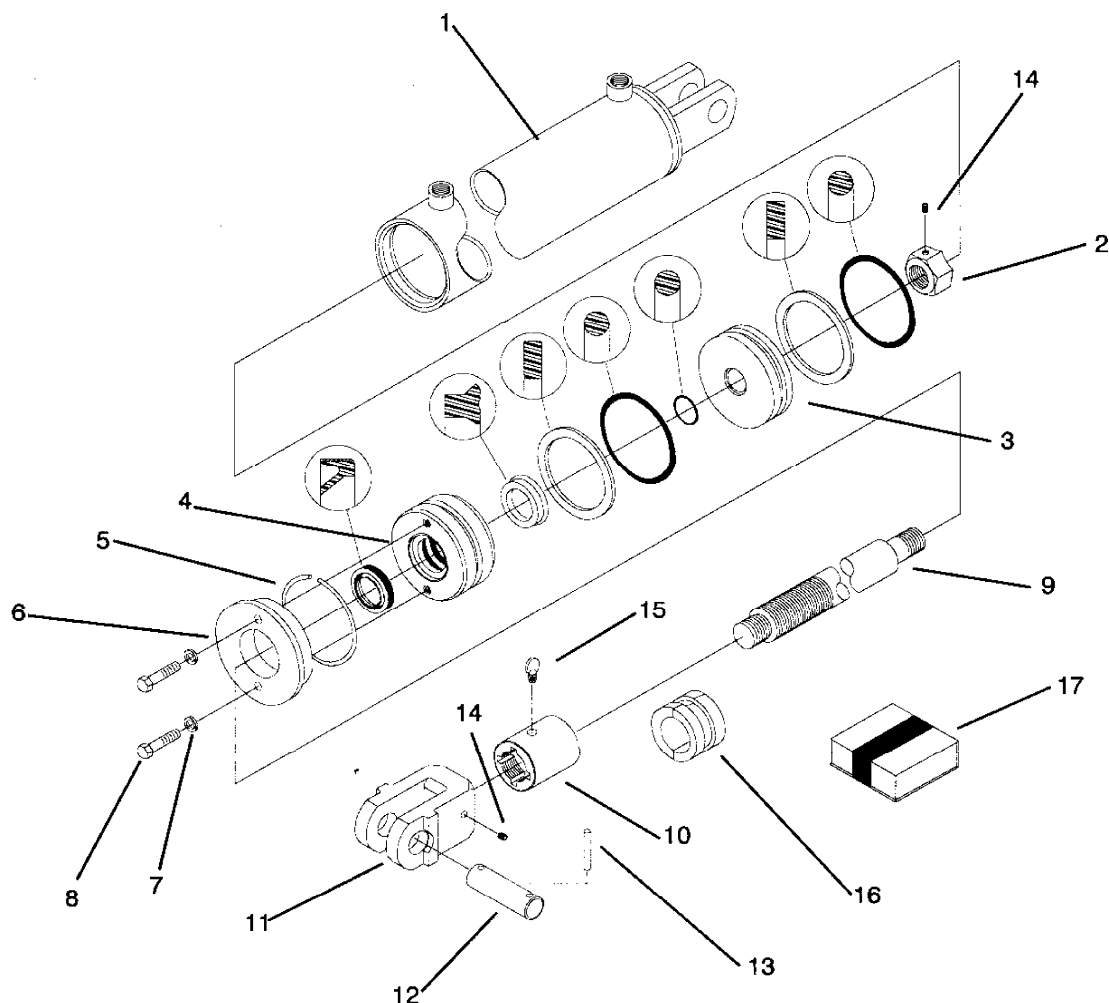


78716

ITEM	PART NO	DESCRIPTION
	42580	4x9.3 Top Bypass Cylinder
1	42574	4x9.3 Cylinder Tube Assy TBP
2	14824	Piston Lock Nut
3	42577	Piston
4	42576	End Gland
5	12286	4" Cylinder Snap Ring
6	13851	Stop Plate 4x8
7	88362	Lock Washer 3/8
8	88553	3/8NCx1-1/2 GR5 Bolt
9	16221	4x9.3 Cylinder Rod

ITEM	PART NO	DESCRIPTION
10	13570	Stop Collar Screw Stop
11	14822	Cylinder Yoke
12	42473	Cylinder Pin (H)
13	42484	Cylinder Lock Pin
14	88706	5/16NCx5/16 Set Screw
15	88387	3/8NCx3/4 Thumb Screw
16	15113	1-1/2 Stop Collar
17	42664	Seal Kit

4x10.8 TOP BYPASS CYLINDER

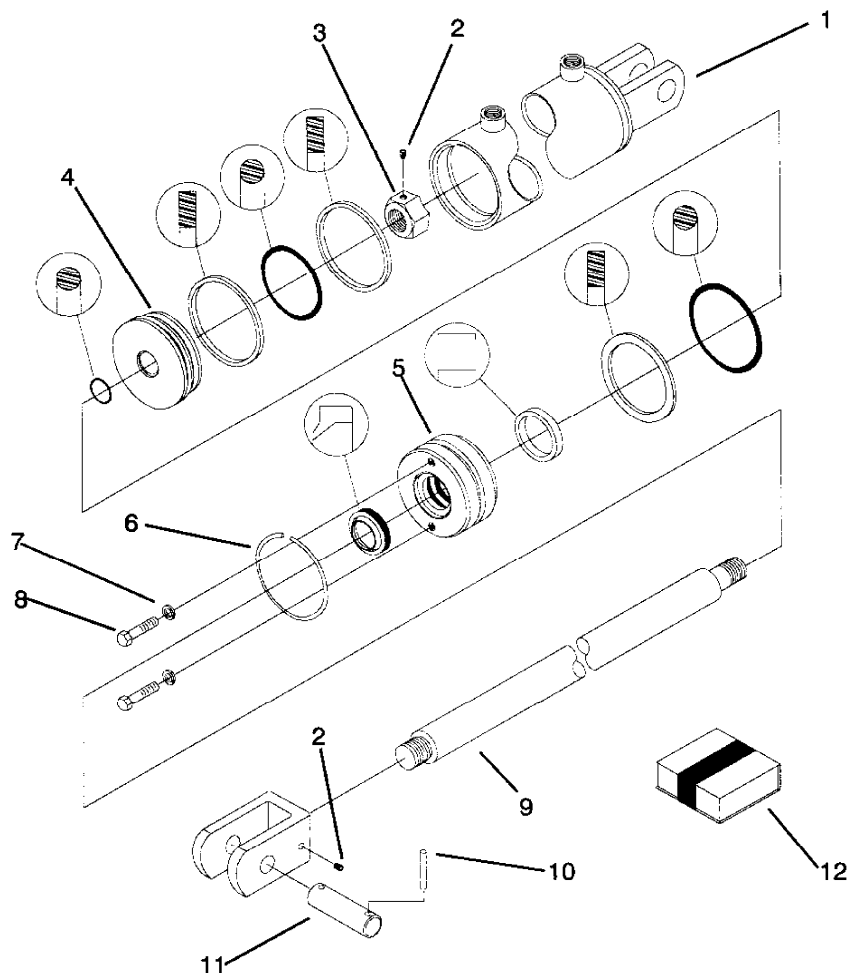


78716

ITEM	PART NO	DESCRIPTION
	42581	4x10.8 Top Bypass Cylinder
1	42572	4x10.8 Cylinder Tube Assy TBP
2	14824	Piston Lock Nut
3	42577	Piston
4	42576	End Gland
5	12286	4" Cylinder Snap Ring
6	13851	Stop Plate 4x8
7	88362	Lock Washer 3/8
8	88553	3/8NCx1-1/2 GR5 Bolt
9	16225	4x10.8 Cylinder Rod

ITEM	PART NO	DESCRIPTION
10	13570	Stop Collar Screw Stop
11	14822	Cylinder Yoke
12	42473	Cylinder Pin (H)
13	42484	Cylinder Lock Pin
14	88706	5/16NCx5/16 Set Screw
15	88387	3/8NCx3/4 Thumb Screw
16	15113	1-1/2 Stop Collar
17	42664	Seal Kit

3x24 HYDRAULIC CYLINDER

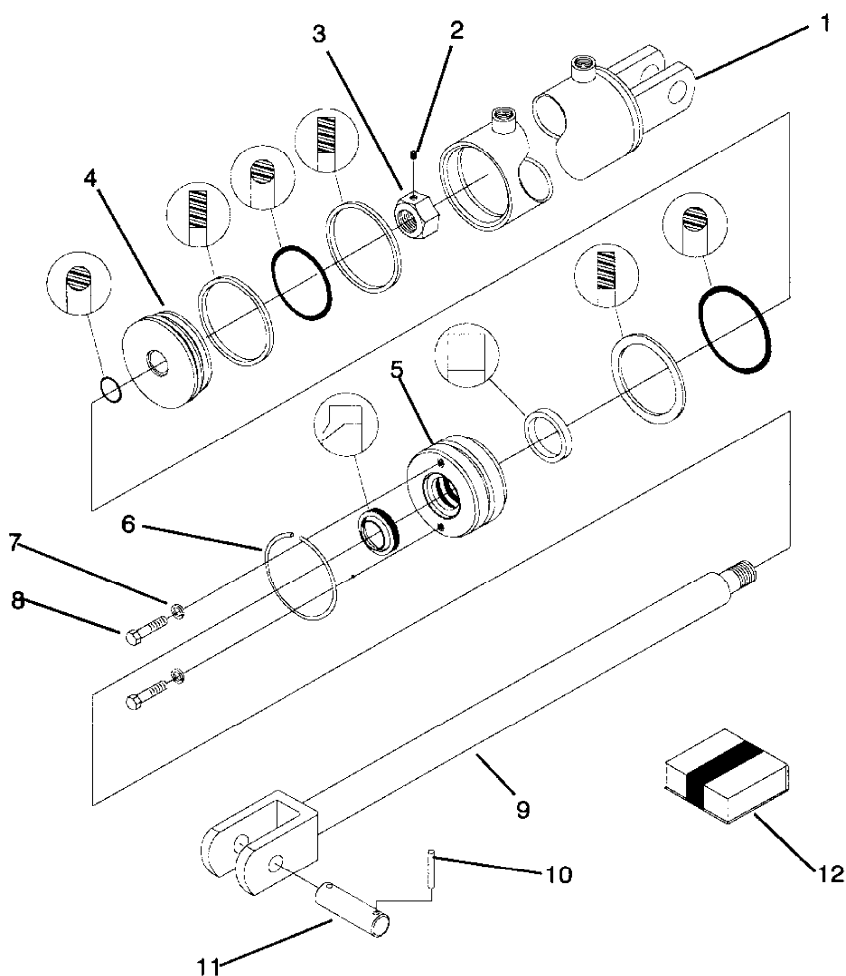


78716B

ITEM	PART NO	DESCRIPTION
	51241	3x24 Hydraulic Cylinder
1	12310	3x24 Cylinder Tube Assembly
2	88706	5/16NCx5/16 Set Screw
3	14824	Piston Lock Nut
4	12308	Piston
5	51206	End Gland
6	12303	3" Cylinder Snap Ring

ITEM	PART NO	DESCRIPTION
7	88855	1/4 SAE Flat Washer
8	88190	1/2NCx1/2 GR5 Bolt
9	13526	3x24 Cylinder Rod Assembly
10	42484	Cylinder Lock Pin
11	42473	Cylinder Pin (H)
12	51210	3" Seal Kit

4x30 HYDRAULIC CYLINDER

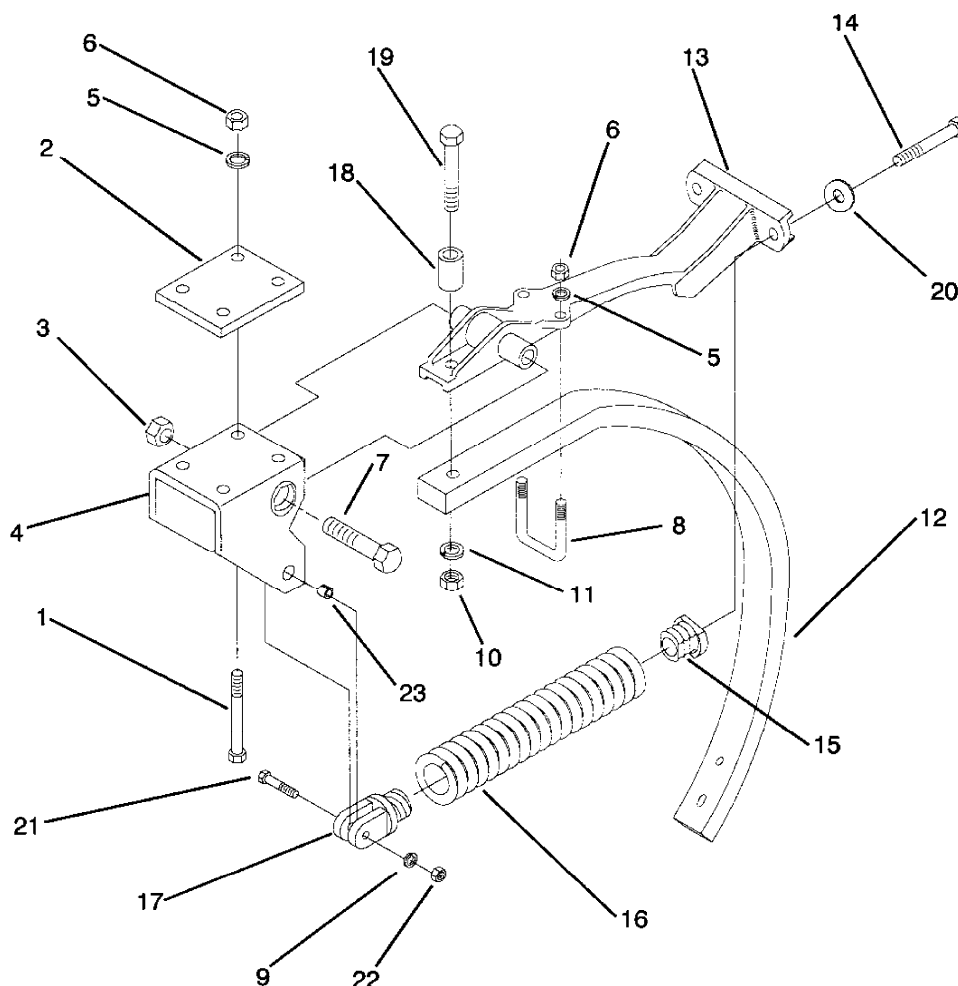


78716A

ITEM	PART NO	DESCRIPTION
	51229	4x30 Hydraulic Cylinder
1	20961	4x30 Cylinder Tube Assembly
2	88706	5/16NCx5/16 Set Screw
3	14824	Piston Lock Nut
4	12282	Piston
5	42576	End Gland
6	12286	4" Cylinder Snap Ring

ITEM	PART NO	DESCRIPTION
7	88278	5/16 Flat Washer
8	88566	3/8NCx3/4 GR5 Bolt
9	20963	4x30 Cylinder Rod Assembly
10	42484	Cylinder Lock Pin
11	42473	Cylinder Pin (H)
12	51212	4" Seal Kit

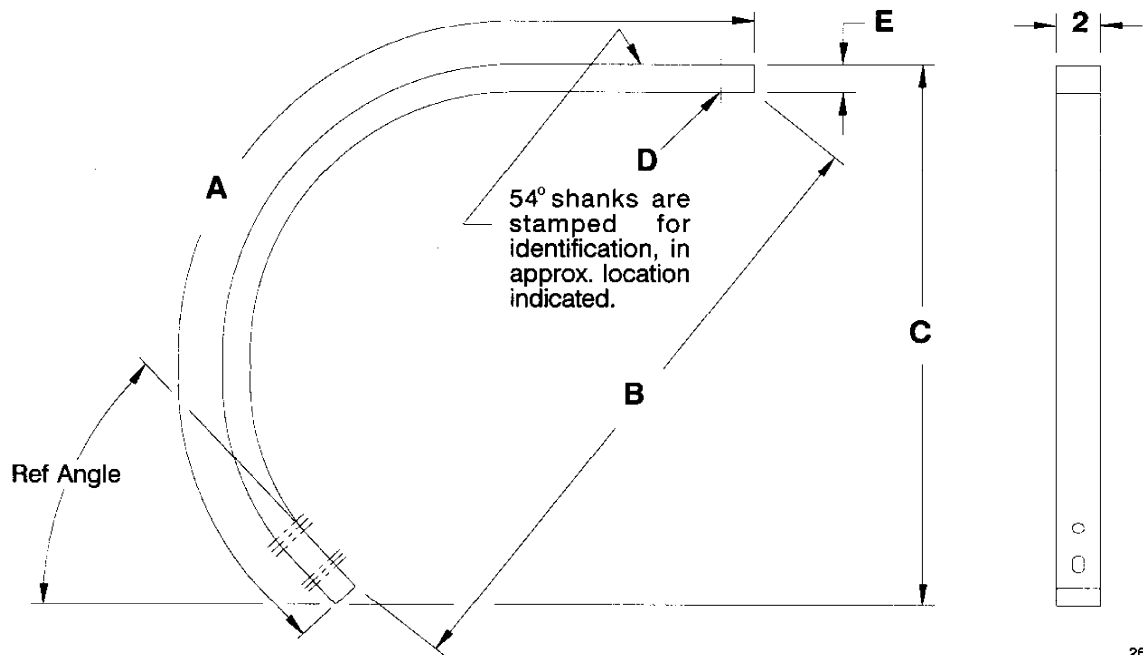
SHANK ASSEMBLY



78929

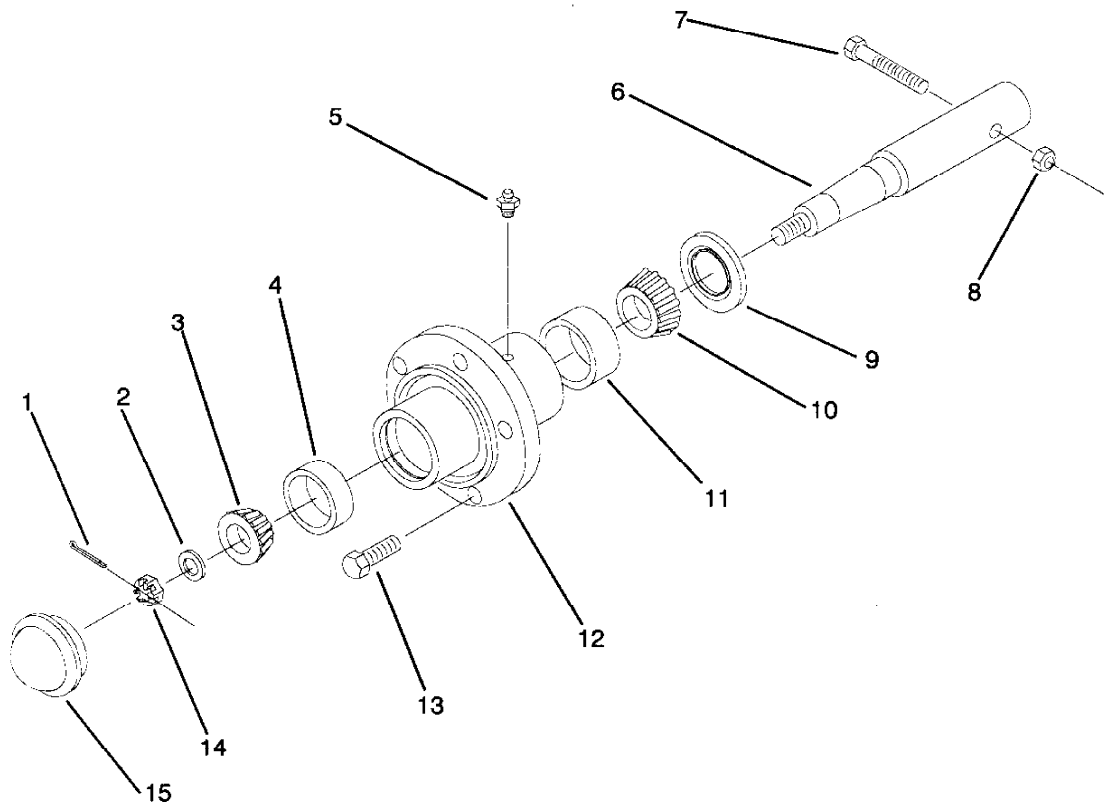
ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
	57973	26" 54° CP Shank Assembly	10	89080	3/4NC Nut
	57969	32" 54° CP Shank Assembly	11	88130	3/4 Lock Washer
	57966	16.12 Spring Assembly (32") (Includes Items 15-17)	12	55478	26" 54° CP Shank
	57967	16.63 Spring Assembly (26") (Includes Items 15-17)		55485	32" 54° CP Shank
1	88295	5/8NCx6 GR5 Bolt	13	62591	Shank Holder
2	12751	Frame Plate	14	10210	Adjustment Bolt
3	88169	1NF Lock Nut	15	57948	Cast Spring Plug
4	57941	Shank Holder Frame	16	57959	14-1/2 Extension Spring (26")
5	88129	5/8 Lock Washer		57961	13-15/16 Extension Spring (32")
6	88126	5/8NC Nut	17	57946	Spring Clevis
7	14987	Pivot Bolt	18	62639	Stop Collar
8	88441	5/8NCx2x3-1/4 U-Bolt	19	88421	3/4NCx4-1/2 GR5 Bolt
9	88303	1/2 Lock Washer	20	88548	3/4 SAE Flat Washer(13/16x1-1/2)
			21	58032	1/2NCx2-1/2 HDN Bolt
			22	88621	1/2NC Nylock Nut
			23	56908	1/2 Spring Tension Bushing

CHISEL PLOW SHANK MEASUREMENT



REF ANGLE	PART NO.	STYLE	DESCRIPTION	A	B	C	D	E
54°	55478	RESET	26" 54° CP SHANK	44-1/4	28-3/4	24	3/4 DIA	1-1/4
54°	55485	RESET	32" 54° CP SHANK	50-1/2	33-1/2	30	3/4 DIA	1-1/4
Note: All measurements are in inches.								

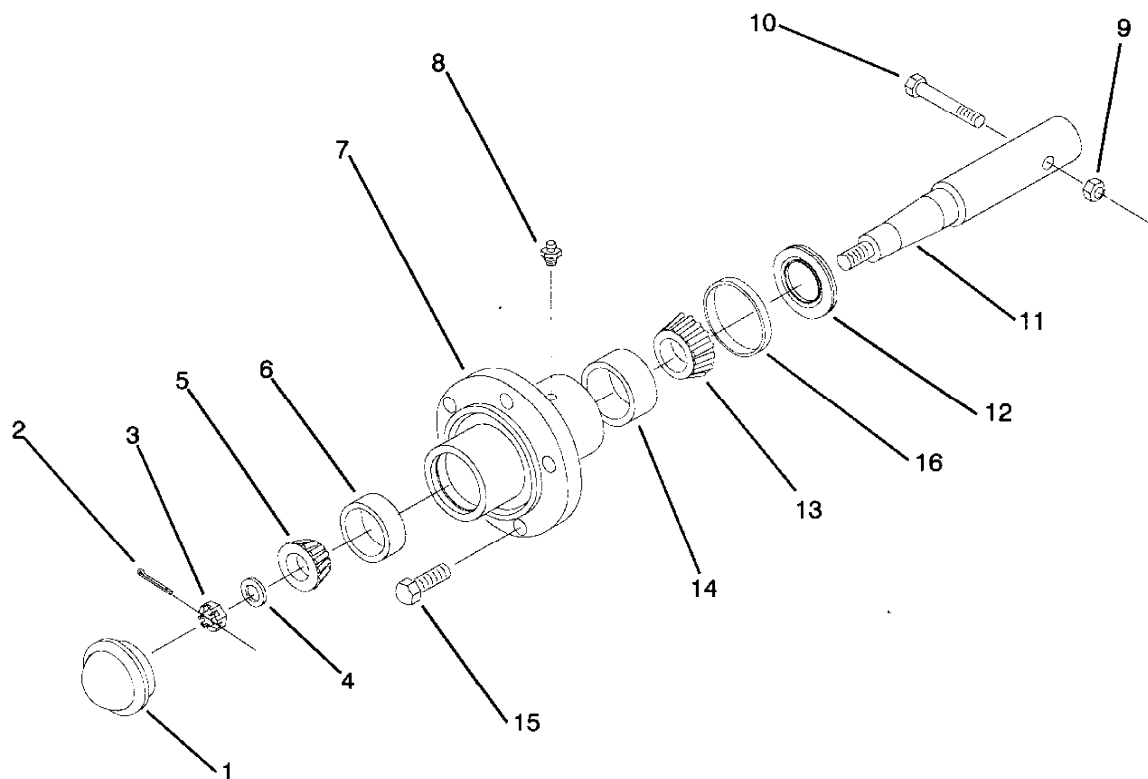
2" HUB & SPINDLE



77836

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
	14131	2" Hub & Spindle Assy (Includes 1-4, 6, 8-15)	8	88304	1/2NFLock Nut
1	88301	3/16x1-1/2 Cotter Pin	9	58546	2" Triple Lip Seal
2	16094	7/8 Spindle Washer	10	14248	Outer Bearing Cone
3	10345	1.25 Bore Brg Cone	11	14249	Outer Bearing Cup
4	10344	2.328 OD Brg Cup	12	24097	2" Machined Hub (Includes Items 4, 5, 11)
5	88263	1/8NPT Grease Fitting	13	88142	1/2NFX1 Wheel Bolt 90° Head
6	14251	2" Axle Spindle	14	86340	7/8NF Slotted Nut
7	88429	1/2NFX3-1/4 GR5 Bolt	15	11381	Dust Cap

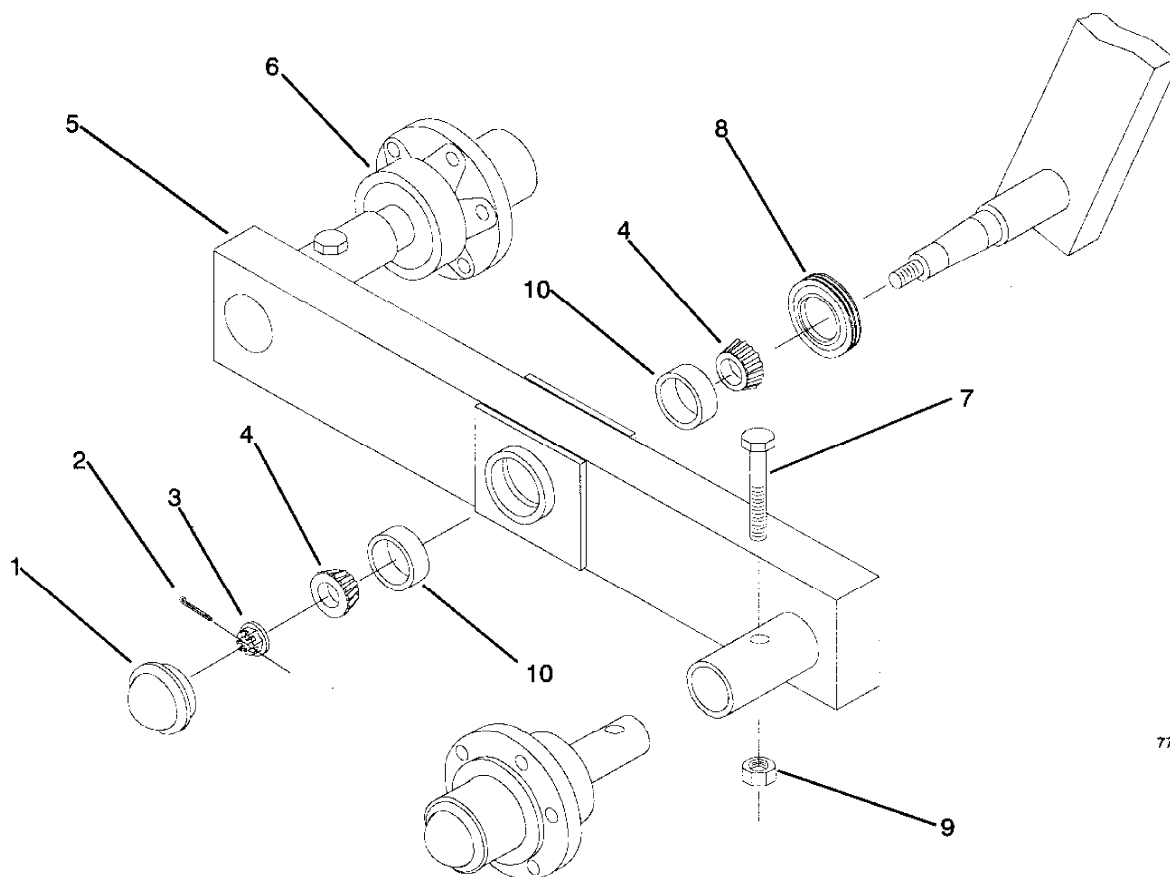
1-3/4 HUB & SPINDLE



75092

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
	41233	Hub & Spindle Assy (Includes 1-8, 11-15)	10	88313	1/2NFX3 GR5 Bolt
1	11381	Dust Cap	11	41232	1-3/4" Spindle
2	88301	3/16x1-1/2 Cotter Pin	12	25585	Triple Lip Seal (1.62 ID)
3	86340	7/8NF Slotted Nut		26121	Wear Sleeve & Seal Kit (Includes Items 12, 16 & 76333 Triple Lip Assy Instr.)
4	16094	7/8 Spindle Washer	13	11378	1.50 Bore Brg Cone
5	10345	1.25 Bore Brg Cone	14	11379	2.563 OD Brg Cup
6	10344	2.328 OD Brg Cup	15	88142	1/2NFX1 Wheel Bolt 90 Head
7	30405	6 Bolt Hub w/Cups (Includes 6, 8, 12 & 14)	16	25586	Wear Sleeve
8	88263	1/8NPT Grease Fitting			
9	88304	1/2NF Lock Nut			

1-3/4" WALKING TANDEM

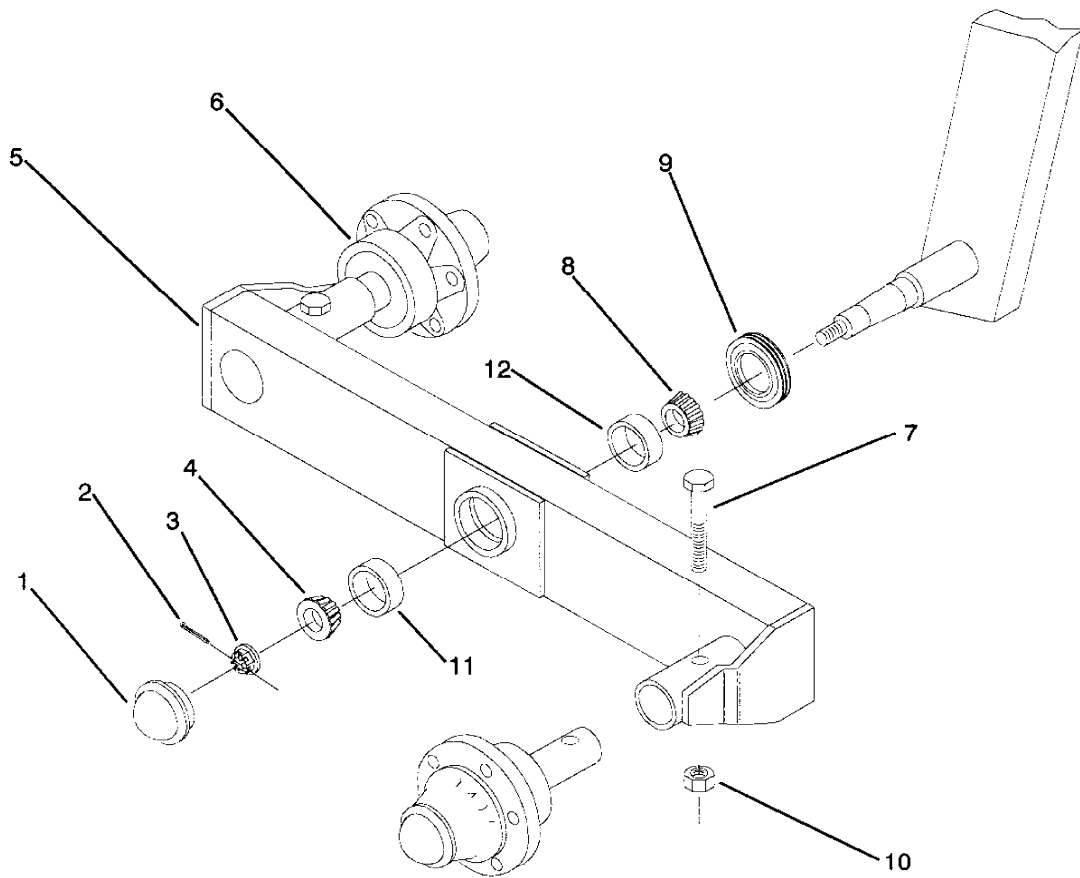


77904

ITEM	PART NO	DESCRIPTION
1	12206	Dust Cap
2	88133	3/16x2 Cotter Pin
3	12712	Walking Tandem Nut Assy
4	12103	1.75 Bore Brg Cone
5	61577	1-3/4x22 WTA Assy (Includes Item 8)

ITEM	PART NO	DESCRIPTION
6	41233	1-3/4" Hub & Spindle Assy
7	88313	1/2NFx3 GR5 Bolt
8	23733	2-1/4 ID Seal Kit
	26120	Seal
	76235	Triple Lip Seal Assy Instr.
9	88304	1/2NF Lock Nut
10	12104	3.265 OD Brg Cup

2" WALKING TANDEM

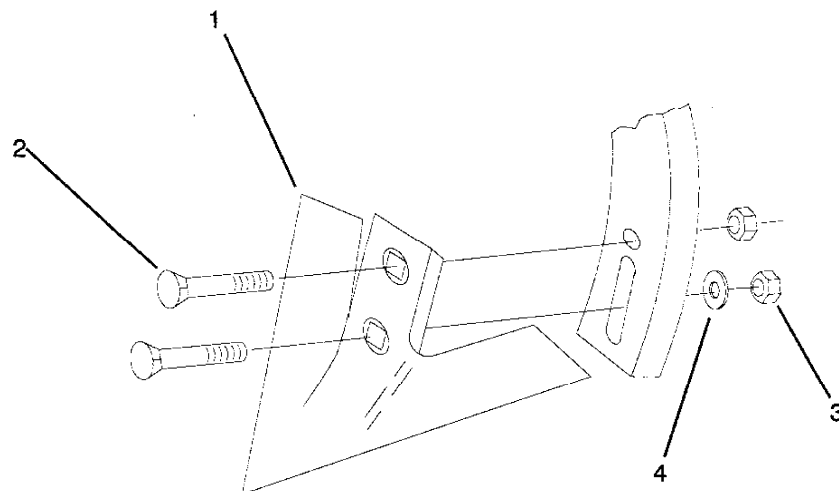


75067

ITEM	PART NO	DESCRIPTION
1	12206	Dust Cap
2	88133	3/16x2 Cotter Pin
3	12712	Walking Tandem Nut Assy
4	12103	1.75 Bore Brg Cone
5	61576	2x22 WTA Assy (Includes Items 11 & 12)

ITEM	PART NO	DESCRIPTION
6	14131	2" Hub & Spindle Assy
7	88429	1/2NFX3-1/4 GR5 Bolt
8	16083	2.00 Bore Brg Cone
9	26119	2.496x3.675 Triple Lip Seal
10	88304	1/2NF Lock Nut
11	12104	3.265 OD Brg Cup
12	16084	3.6718 OD Brg Cup

SHOVELS

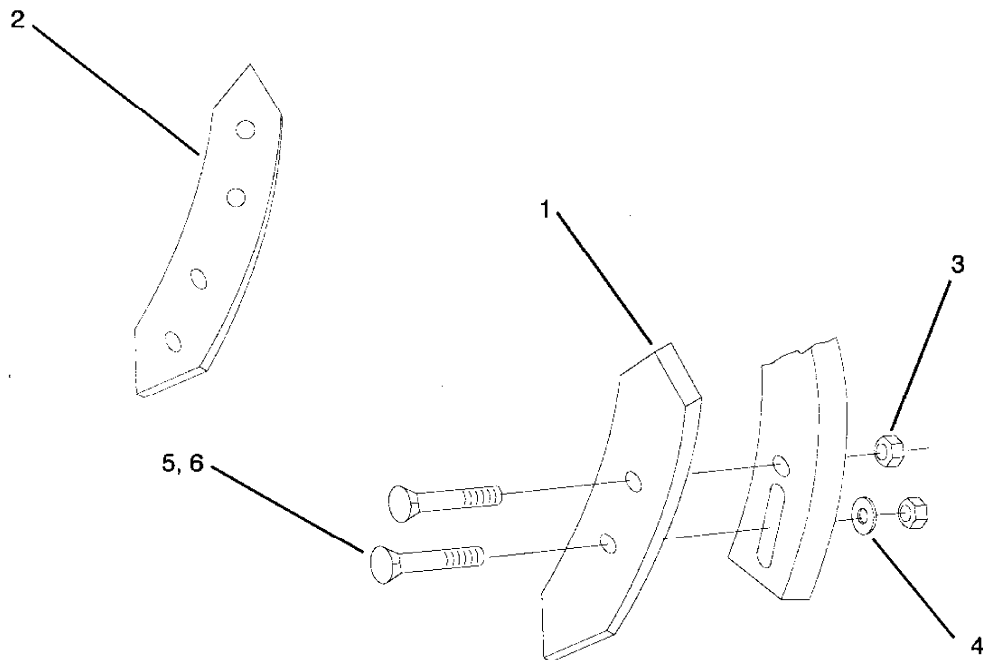


77905

ITEM	PART NO	DESCRIPTION
	14691	HK CP Shovel HDW Pkg 1/2x2-1/4 (Includes 2, 3, & 4)
1	56010	Sweep, 12" 50 Deg
	56011	Sweep, 14" 50 Deg
	56012	Sweep, 16" 50 Deg
	56013	Sweep, 18" 50 Deg

ITEM	PART NO	DESCRIPTION
2	88379	Plow Bolt, 1/2NCx2-1/4 No. 3
3	88346	1/2NC Heavy Nut
4	88347	1/2 Flat Washer

SPIKES

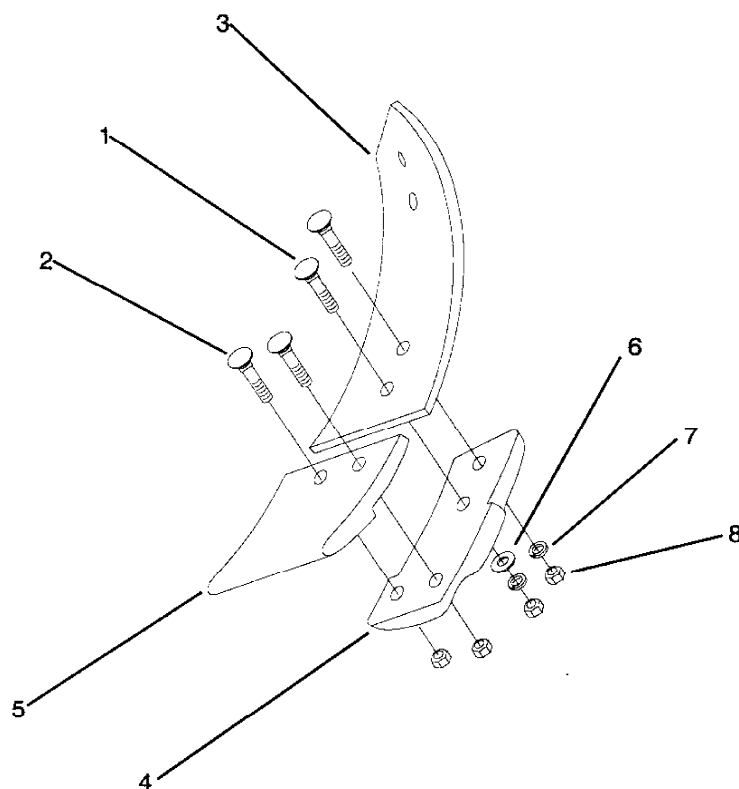


77905A

ITEM	PART NO	DESCRIPTION
	14691	HK CP Shovel Hdw Pkg 1/2NCx2-1/4 (Box of 50) For use with 3/8" Spikes (Includes 3, 4 & 6)
	14692	HK CP Shovel Hdw Pkg 1/2NCx2-1/2 (Box of 50) For use with 3/8" Spikes (Includes 3, 4 & 5)
1	12695	Spike, 5/8"x2"x15 (Plain)
2	13392	Twisted Spike, 3/8"x3"x22" (Plain) (L)
	13393	Twisted Spike, 3/8"x3"x22" (Plain) (R)
	33984	Twisted Spike, 3/8"x4x22 (L)
	33985	Twisted Spike, 3/8"x4x22 (R)

ITEM	PART NO	DESCRIPTION
3	88346	1/2NC Heavy Nut
4	88347	1/2 Flat Washer
5	88384	1/2NCx2-1/2 No. 3 Plow Bolt
6	88379	1/2NCx2-1/4 No. 3 Plow Bolt

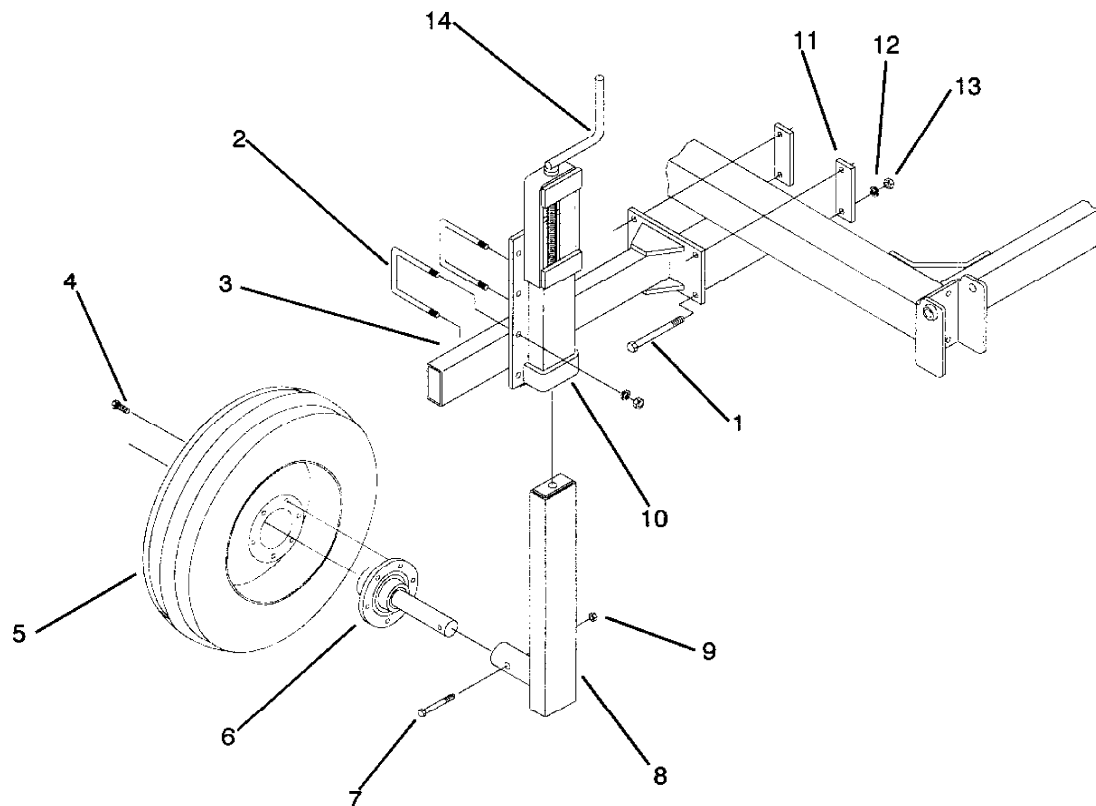
4" TWISTED MOLDBOARDS



78960

ITEM	PART NO	DESCRIPTION
	19391	3PC Twisted Moldboard (R) 3/8x4 (Includes 1, 2, 6, 7 & 8)
	19392	3PC Twisted Moldboard (L) 3/8x4 (Includes 1, 2, 6, 7 & 8)
1	88497	1/2NCx3-1/4 GR5 Plow Bolt
2	88496	1/2NCx1-3/8 GR5 Share Bolt
3	19394	Moldboard Right
	19393	Moldboard Left
4	19398	Frog Right
	19399	Frog Left
5	19396	Point Right
	19395	Point Left
6	88347	1/2 Flat Washer
7	88303	1/2 Lock Washer
8	88346	1/2NC Nut

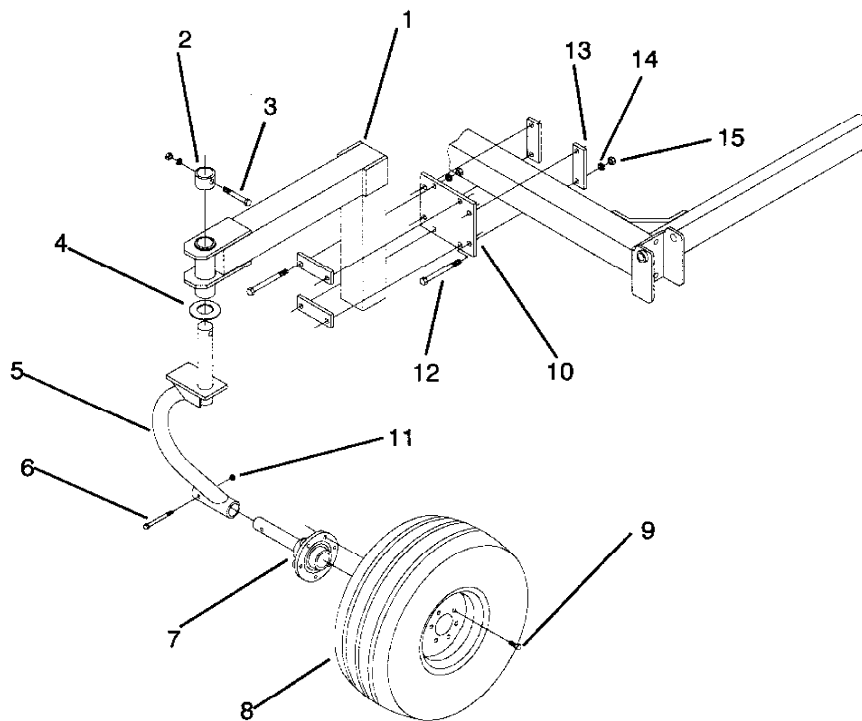
GAUGE WHEEL



78933

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
	16140	Gauge Wheel Group w/Rims	6	41233	1-3/4" Hub & Spindle
	19268	Gauge Wheel Group w/Tires	7	88313	1/2NFx3 GR5 Bolt
1	88837	5/8NCx6-1/2 GR5 Bolt	8	15037	Axle Leg
	88383	5/8NCx7 GR5 Bolt	9	88304	1/2NF Lock Nut
2	88388	5/8NCx4x3-1/4 U-Bolt	10	15040	Gauge Wheel Bracket Assy
3	15321	Gauge Wheel Mount	11	15627	Hinge Plate
4	88142	1/2NFx1 Wheel Bolt	12	88129	5.8 Lock Washer
5	10236	15x6 Wheel Rim	13	88126	5/8NC Nut
	16287	9.5Lx15 Tire	14	14452	Crank Assembly

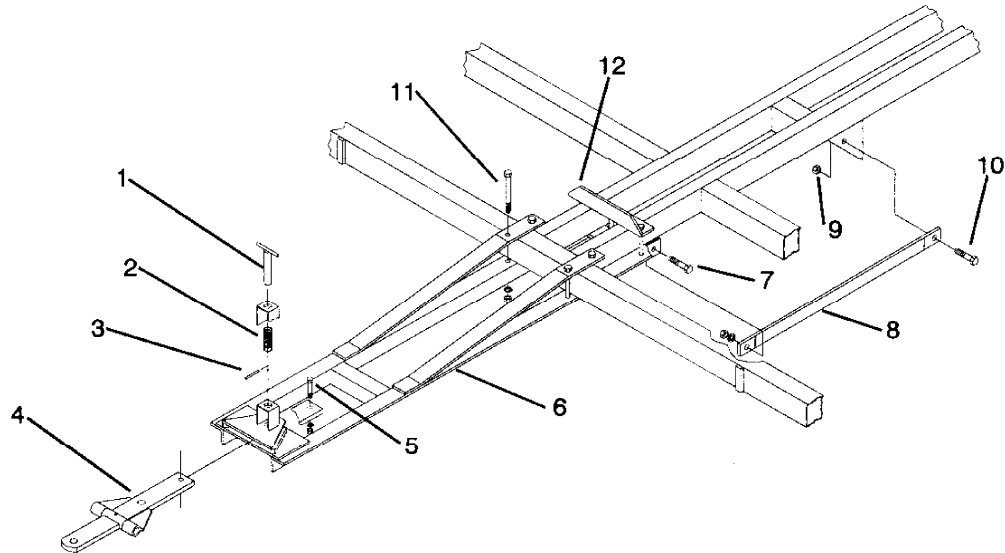
CASTERING GAUGE WHEEL



78932

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
	16286	Castering Gauge Wheel Group w/Rims	9	88142	1/2NFx1 90° Head Wheel Bolt
	19270	Castering Gauge Wheel Group w/Tires	10	16321	Mounting Plate
1	15931	Caster Wheel Arm	11	88304	1/2NF Lock Nut
2	14189	Stop Collar	12	88295	5/8NCx6 GR5 Bolt
3	88412	3/8NCx3-1/2 GR5 Bolt	13	15627	Hinge Plate
4	19262	Shim	14	88129	5/8 Lock Washer
5	16312	Caster Wheel Leg	15	88126	5/8NC Nut
6	88313	1/2NFx3 GR5 Bolt			
7	41233	1-3/4" Hub & Spindle			
8	13142	9:5Lx15 Tire Assembly			

AUXILIARY HITCH

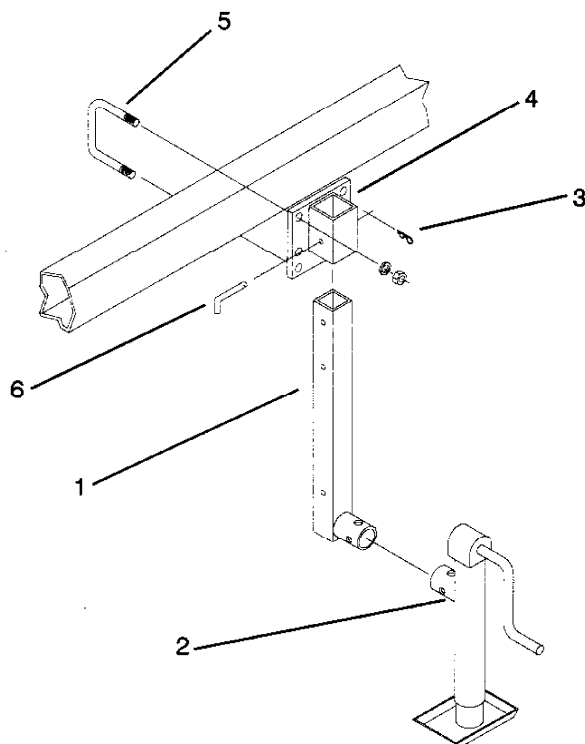


77907

ITEM	PART NO	DESCRIPTION
	18448	CP Auxiliary Hitch
1	15922	Pin Assembly
2	15940	Spring
3	88101	1/4x2-1/2 Cotter Pin
4	18443	Hinged Tongue Assembly
5	88294	5/8NCx2 GR5 Bolt
6	48943	Auxiliary Hitch Frame Assy

ITEM	PART NO	DESCRIPTION
7	88290	3/4NCx2 GR8 Bolt
8	18440	Pole Strap
9	88348	1NC Lock Nut
10	88393	1NCx2-1/2 GR5 Bolt
11	88295	5/8NCx6 GR5 Bolt
12	18436	Angle Clamp

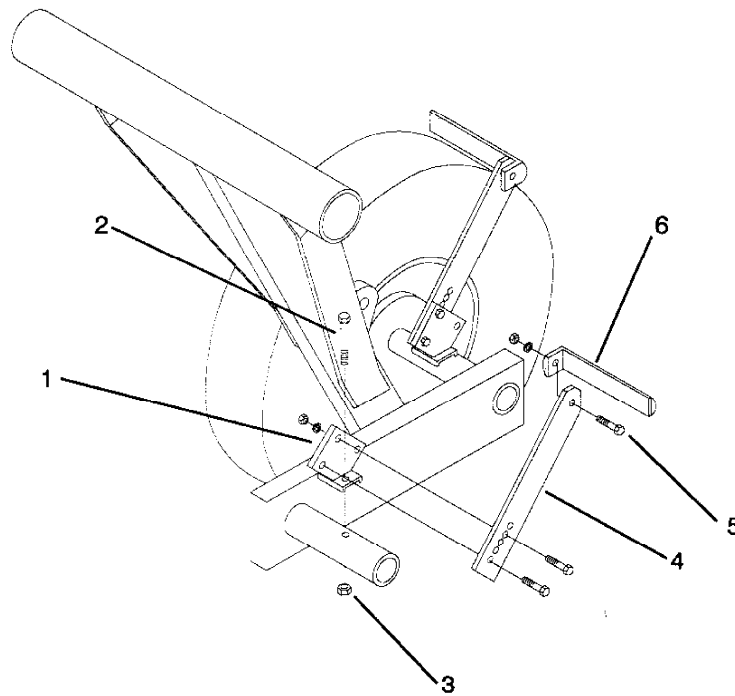
REAR JACK STAND



77854

ITEM	PART NO	DESCRIPTION
	62149	Chisel Plow Rear Jack Stand
1	62156	CP Jack Leg
2	12796	Pole Jack
3	23039	Hairpin Cotter 2.69"
4	22724	Jack Stand Bracket
5	88145	5/8NCx4x5-1/4 U-Bolt
6	16306	Pin

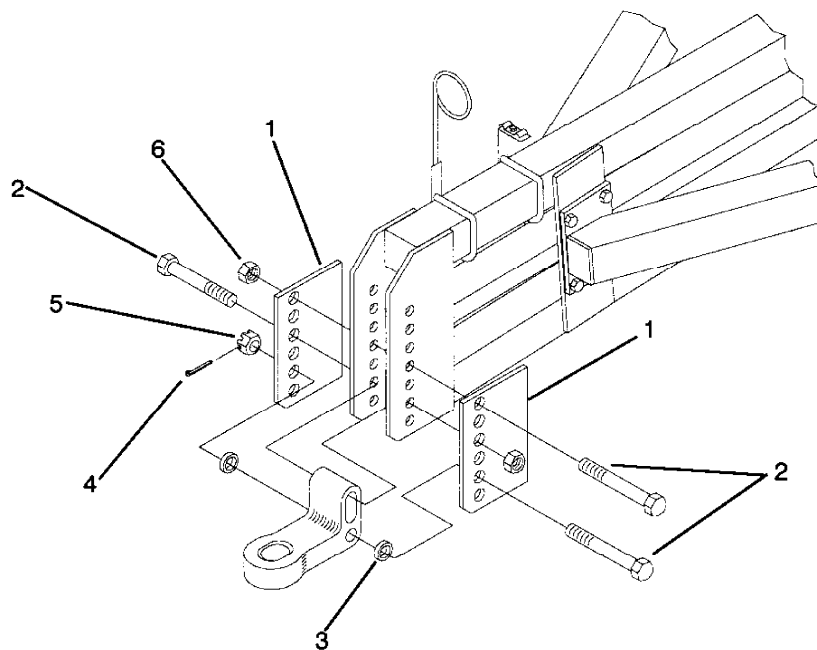
MUD SCRAPERS



77857

ITEM	PART NO	DESCRIPTION
	40924	1-3/4" & 2" Mud Scraper Kit (Each kit does 2 tires)
1	40921	Mount Assembly
2	88595	1/2NCx4 GR5 Bolt
3	88363	1/2NC Lock Nut
4	40915	Scraper Bar
5	88475	1/2NCx1-1/2 GR5 Bolt
6	40916	9" Scraper Blade

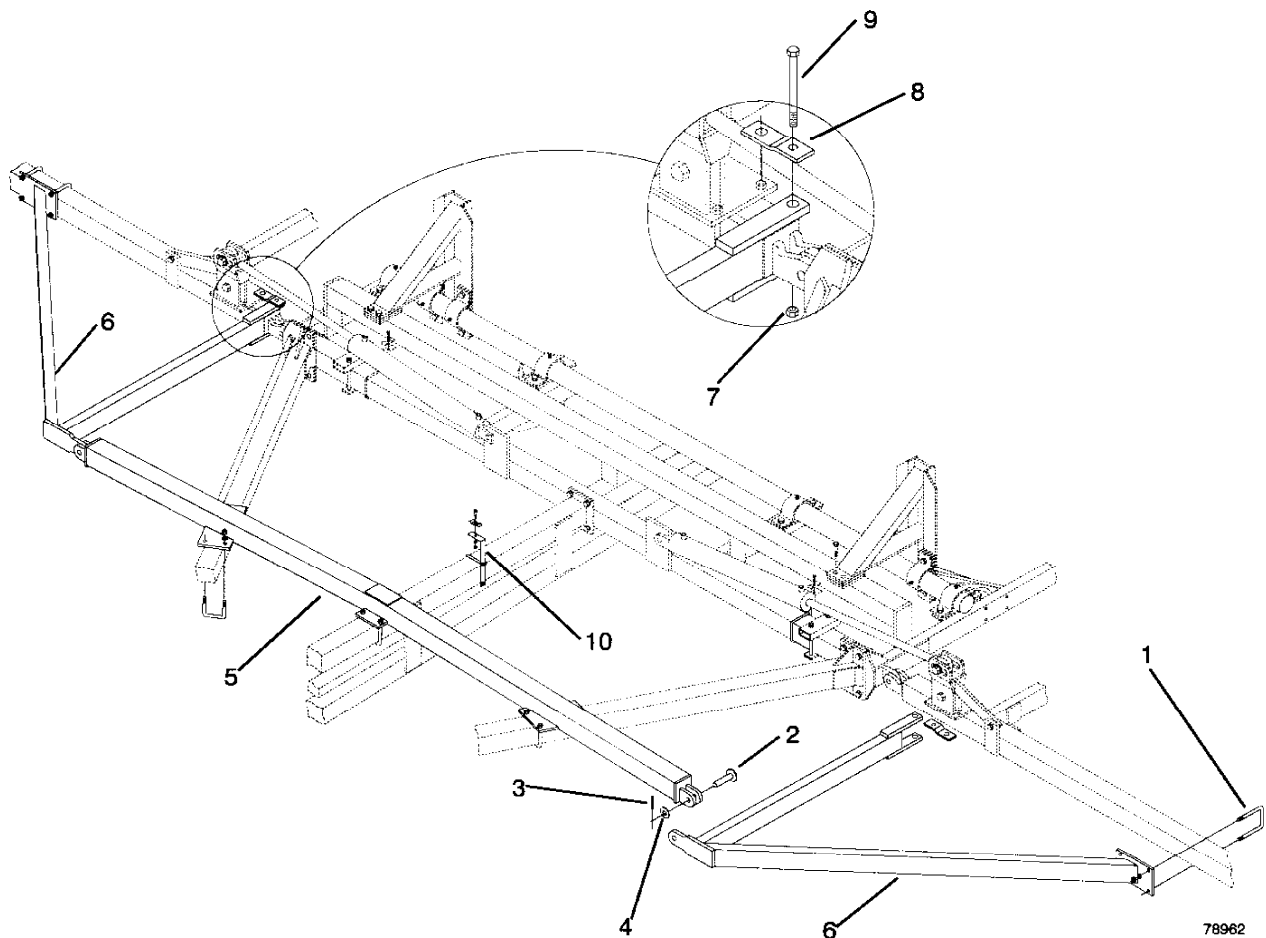
SHALLOW TILLAGE KIT



78961

ITEM	PART NO	DESCRIPTION
1	16145	Hitch Plate Extension
2	88427	1-1/4NCx8 GR5 Bolt
3	16146	Bushing
4	88133	3/16x2 Cotter Pin
5	88350	1-1/4NC Slotted Nut
6	88430	1-1/4NC Lock Nut

AUXILIARY HINGE

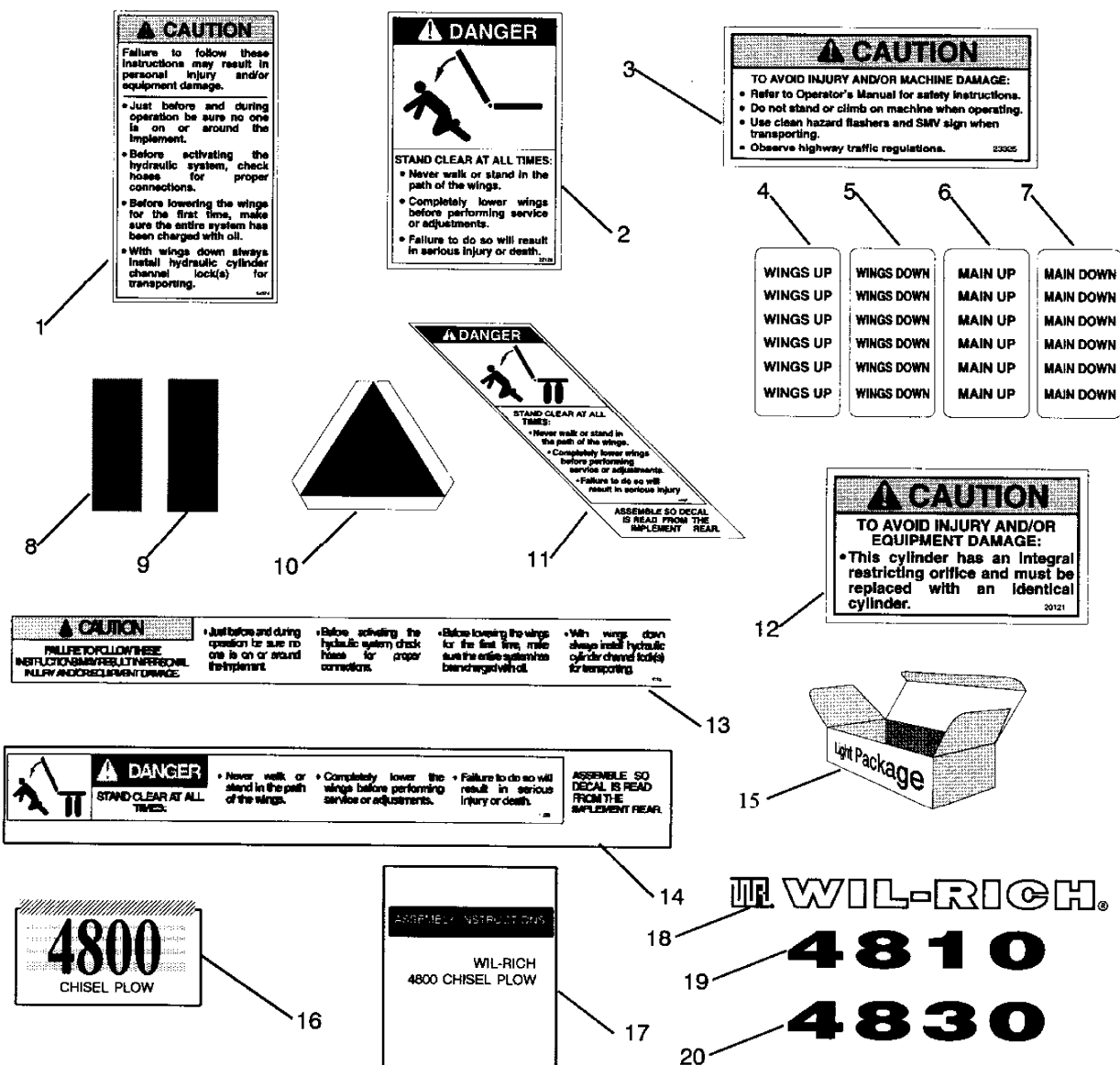


78962

ITEM	PART NO	DESCRIPTION
	13954	4830 Auxiliary Hinge Kit
1	88145	5/8NCx4x5-1/4 U-Bolt
2	12217	Hinge Pin
3	88101	1/4x2-1/2 Cotter Pin
4	88196	1" Flat Washer
5	13795	Pole Hinge
6	61640	4830 Auxiliary Hinge
7	88356	3/4NC Lock Nut
8	13798	Lock Plate
9	88335	3/4NCx7 GR5 Bolt
10	13499	Pole Tube Big Bracket

Note: When using the 4830 auxiliary hinge kit, Item 10 pole tube *big* bracket will replace the existing pole tube brackets.

DECALS



ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
1	54374	Hitch Plate Caution Decal	11	41507	Angled Wing Lock Decal
2	22128	Hitch Plate Danger Decal	12	20121	Integral Restrictor Decal
3	23325	Caution Decal Read Operator's	13	53334	Caution Decal
4	54900	Wings Up Decal	14	41508	Wing Lock Danger Decal
5	54901	Wings Down Decal	15	41510	BOP Clearance Light Package
6	54902	Main Up Decal	16	74198	4800 Operator's Manual
7	54903	Main Down Decal	17	74197	Assembly Manual
8	23372	Amber Reflector	18	18300	1-3/4x20 Die Cut Wil-Rich Decal
9	22371	Red Reflector	19	62506	4810 Diecut Decal
10	41345	SMV Kit	20	61599	4830 Diecut Decal

Index

10176	Spacer	4, 5, 9, 10, 11	13483	3/8x120 Hose (FF)	18
10210	Adjustment Bolt	28	13484	3/8x156 Hose (FF)	18
10236	15x6 Wheel Rim	37	13499	Pole Tube Big Bracket	43
10344	2.328 OD Brg Cup	30	13526	3x24 Cylinder Rod Assembly	26
10345	1.25 Bore Brg Cone	30	13570	Stop Collar Screw Stop	24, 25
10399	Axle Cap	4, 5, 9, 10, 11	13681	1-1/2" Cylinder Lock Channel	20, 21, 22, 23
11364	Clevis Hitch	6, 7	13795	Pole Hinge	43
11381	Dust Cap	30, 31	13798	Lock Plate	43
11638	Hitch Bolt	6, 7	13851	Stop Plate 4x8	24, 25
12103	1.75 Bore Brg Cone	32, 33	13954	4830 Auxiliary Hinge Kit	43
12104	3.265 OD Brg Cup	32, 33	13963	Main Frame 1FT Stub	8, 9, 13
12206	Dust Cap	32, 33	14131	2" Hub & Spindle Assy	5, 33
12217	Hinge Pin Assy	8, 9, 10, 11, 43	14189	Stop Collar	38
12282	Piston	27	14248	Outer Bearing Cone	31
12286	4" Cylinder Snap Ring	24, 25, 27	14249	Outer Bearing Cup	31
12303	3" Cylinder Snap Ring	26	14408	Hinge Pin	13
12308	Piston	26	14452	Crank Assembly	37
12310	3x24 Cylinder Tube Assembly	26	14691	HK CP Shovel Hdw Pkg 1/2NCx2-1/4 (Box of 50)	35
12695	Spike, 5/8"x2"x15 (Plain)	35	14691	HK CP Shovel HDW Pkg 1/2x2-1/4	34
12712	Walking Tandem Nut Assy	32, 33	14692	HK CP Shovel Hdw Pkg 1/2NCx2-1/2 (Box of 50)	35
12724	Hose Bracket Assy	6, 7	14797	10 CPW Short Pole Brace	6
12751	Frame Plate	28	14822	Cylinder Yoke	24, 25
12796	Pole Jack	6, 7, 40	14824	Piston Lock Nut	24, 25, 26, 27
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13236	3/4JICx1/2NPT Port Elbow	20, 21, 22, 23	15113	1-1/2" Stop Collar Assy	20
13237	3/8 Cylinder Port Tee	18	15321	Gauge Wheel Mount	37
13238	3/4JIC Tube Tee	15, 16, 17, 19, 20, 21, 22, 23	15515	3/8x62 Hose (FF)	15, 16, 17, 18
13239	3/4JIC Union	17, 18, 21, 23	15627	Hinge Plate	37, 38
13253	1/2x120 Hyd Tube	16, 17, 18, 21, 22, 23	15811	1/2x65 Hyd Tube	15, 20
13253	1/2x120 Hyd Tube (SP)	20	15910	1/2 Tube Cross	16, 17, 18
13253	1/2x120 Hyd Tube (XSP)	15	15922	Pin Assembly	39
13258	1/2x60+2 Hyd Tube	23	15931	Caster Wheel Arm	38
13259	3/8x18 Hose (MF)	20, 21, 22, 23	15940	Spring	39
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13263	3/8x36 Hose (MF)	23	16084	3.6718 OD Brg Cup	33
13264	3/8x48 Hose (MF)	20, 21, 22, 23	16094	7/8 Spindle Washer	30
13266	3/8x60 Hose (MF)	23	16140	Gauge Wheel Group w/Rims	37
13267	3/8x72 Hose (MF)	15, 16, 17, 18, 20, 21, 22, 23	16145	Hitch Plate Extension	42
13270	Pole Tube Bracket	4, 5, 6, 7, 10, 11	16146	Bushing	42
13286	1/2x94+2 Hyd Tube	22, 23	16209	10 CPW Compact Pole Brace	6
13287	1/2x38 Hyd Tube	17, 18, 21, 23	16221	4x9.3 Cylinder Rod	24
13392	Twisted Spike, 3/8"x3"x22" (Plain)	35	16225	4x10.8 Cylinder Rod	25
13393	Twisted Spike, 3/8"x3"x22" (Plain)	35	16286	Castering Gauge Wheel Group w/Rims	38
13401	Cylinder Anchor Plate	13	16287	9:5Lx15 Tire	37
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18300	1-3/4x20 Die Cut Wil-Rich Decal	52	41233	1-3/4" Hub & Spindle Assy	
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18443	Hinged Tongue Assembly	39	41374	4410 Compact Main Pole	6
18448	CP Auxiliary Hitch	39	41423	4400 Short Main Pole	6
19262	Shim	38	41507	Angled Wing Lock Decal	52
19268	Gauge Wheel Group w/Tires	37	41508	Wing Lock Danger Decal	52
19270	Castering Gauge Wheel Group		41510	BOP Clearance Light Package	52
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19393	Moldboard Left	36	42574	4x9.3 Cylinder Tube Assy TBP	24
19394	Moldboard Right	36	42576	End Gland	24, 25, 27
19395	Point Left	36	42577	Piston	24, 25
19396	Point Right	36	42580	4x9.3 Top Bypass Cylinder	22, 23, 24
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21037	1/2x72 Hyd Tube	23	49874	Pin	9, 10, 11
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22128	Hitch Plate Danger Decal	52	51212	4" Seal Kit	27
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26120	Seal	32	56012	Sweep, 16" 50 Deg	34
30405	6 Bolt Hub w/Cups	30	56013	Sweep, 18" 50 Deg	34
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61490	4800 Right 12' Wing	11	88169	1NF Lock Nut	28
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61493	Right Wing Lift.....	10, 11	88263	1/8NPT Grease Fitting	30
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61550	4800 Right 9' Wing	10	88301	3/16x1-1/2 Cotter Pin	30
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61897	4800 Right 6' Wing	9	88379	1/2NCx2-1/4 No. 3 Plow Bolt	34, 35
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61930	4810 Main Axle (STD)	4	88388	5/8NCx4x3-1/4 U-Bolt	
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61949	18" Stub	9, 10, 11	88393	1NCx2-1/2 GR5 Bolt	39
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88427	1-1/4NCx8 GR5 Bolt	42
88429	1/2NFx3-1/4 GR5 Bolt	33
88430	1-1/4NC Lock Nut 4	2
88432	5/16x2 Roll Pin	13
88437	1/2 Lock Washer	14
88441	5/8NCx2x3-1/4 U-Bolt	28
88447	1NCx3-1/2 GR5 Bolt	12
88475	1/2NCx1-1/2 GR5 Bolt	41
88496	1/2NCx1-3/8 GR5 Share Bolt	36
88497	1/2NCx3-1/4 GR5 Plow Bolt	36
88501	5/8NCx4x4-1/4 U-Bolt	13
88507	1/2NCx3-1/2 GR5 Bolt	14
88531	3/8NCx3 GR5 Bolt	19
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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 the 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 judgment 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 manufactures 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 the our judgment 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.