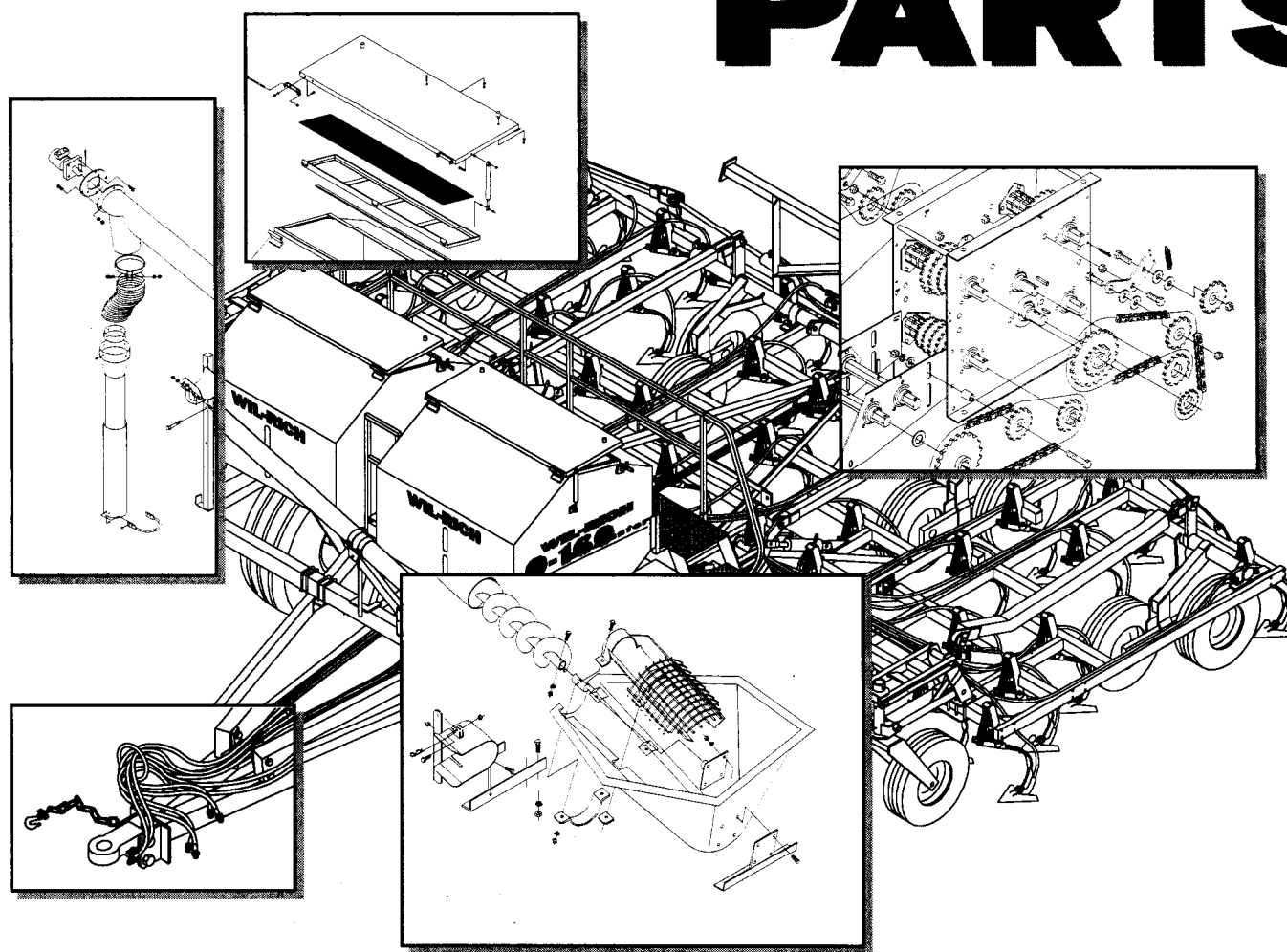


Q-110 & Q-160 Air Master PARTS



Printed in USA (74199) WR-25 3/98

WIL-RICH
PO Box 1030
Wahpeton, ND 58074
PH (701) 642-2621
Fax (701) 642-3372
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

Contents

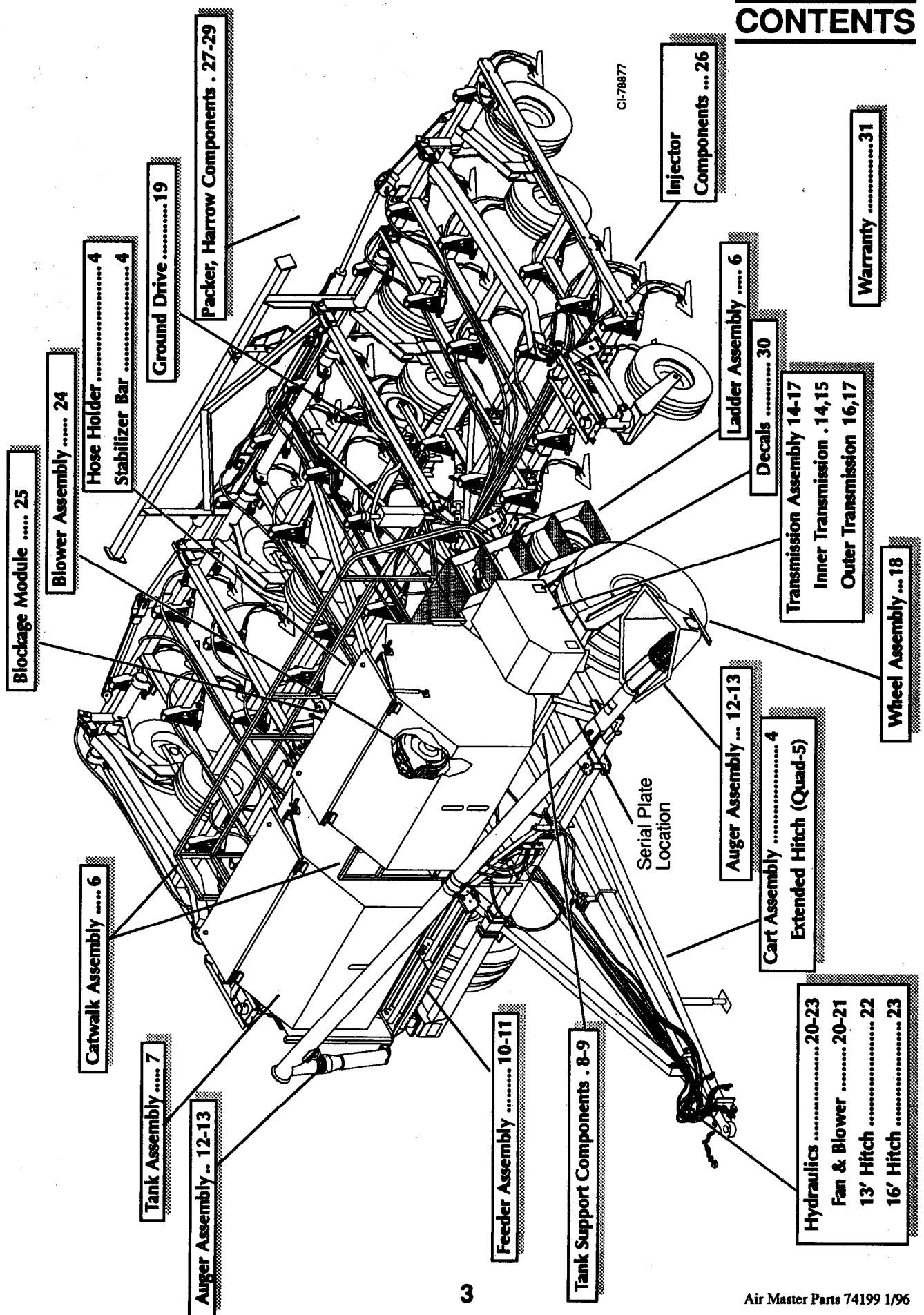
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Standard Nuts and Lock Washers

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

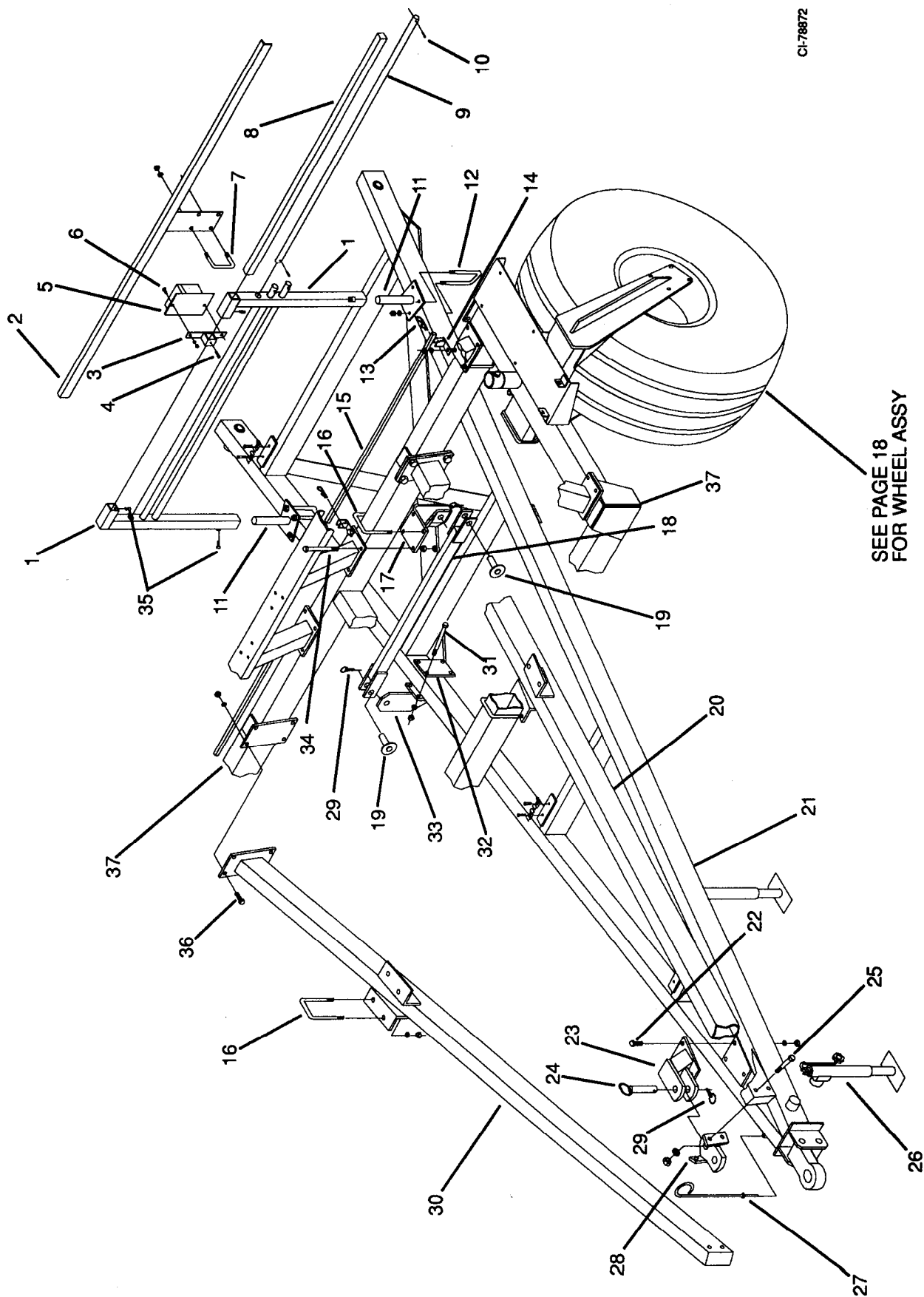
Note: Standard nuts and lock washers are not called out. Anything other than standard will be called out.

CONTENTS



CART ASSEMBLY

Air Master Parts 74199 1/96

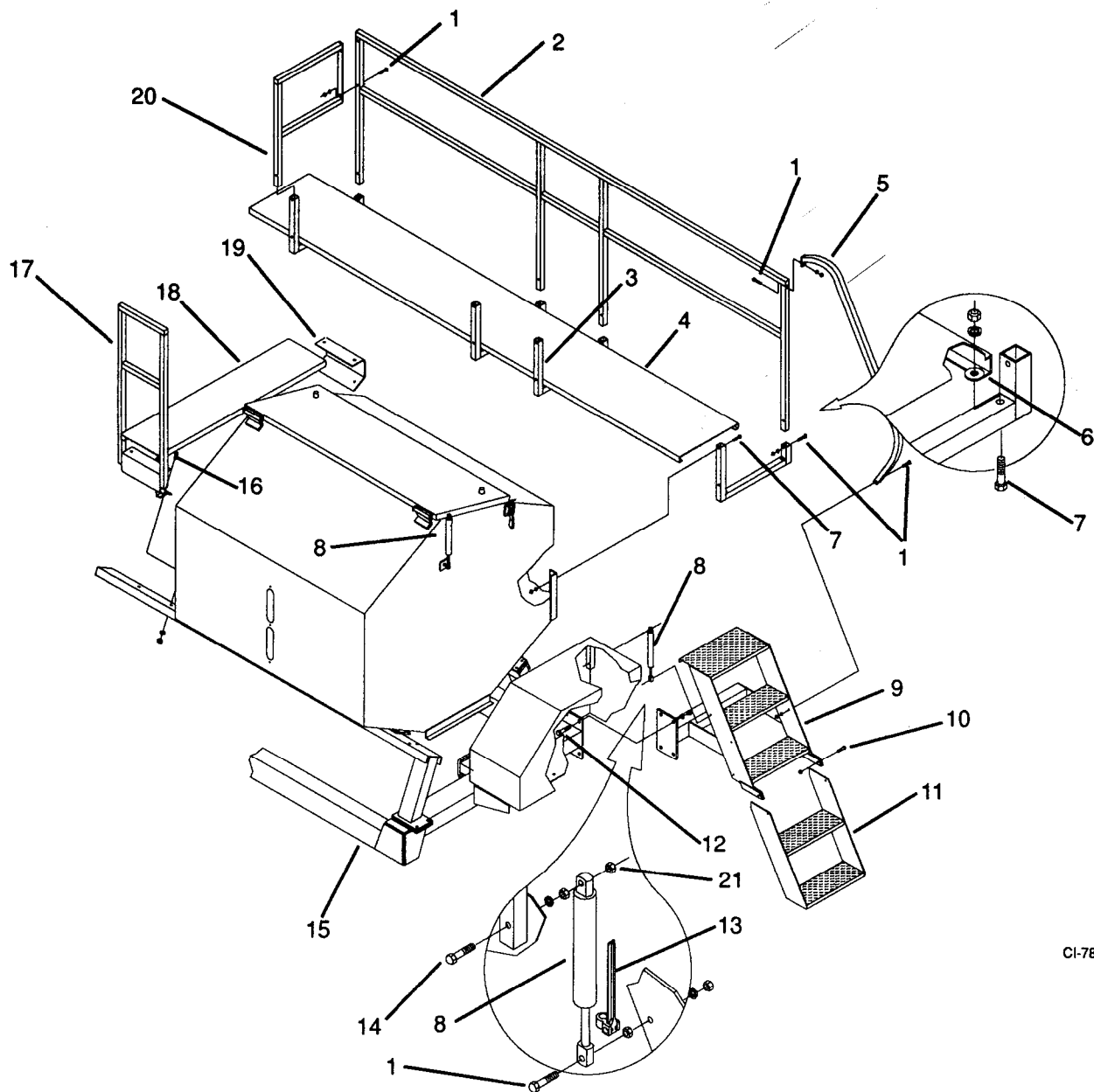


CI-78872

ITEM	PART NO	DESCRIPTION
1	61622	Hose Holder Post
2	59934	Hose Support Bracket
3	61619	Module Box Mount
4	88253	3/8NCx1/2SQ HD Set Screw
5	58924	Blockage Module
		(See Page 25 for Module Components)
6	88203	1/4NCx1 GR2 Bolt
7	88501	5/8NCx4X4-1/4 U-bolt
8	61621	Holder Top Tube (13")
	62005	Holder Top Tube (16")
9	61625	Hose Holder Tube (13")
	62006	Hose Holder Tube (16")
10	88301	3/16 Dia x 1-1/2 Cotter Pin
11	61626	Hose Holder Base
12	53844	1/2NCx3x6-1/2 U-Bolt
13	88352	3/16x3-1/4 Spring Lock Pin
14	61634	Cart Hose Bracket
15	61631	Hose Tube
16	89097	5/8NCx4x7-1/4 U-Bolt
17	59742	Cart Stabilizer Bracket
18	59736	13' Stabilizer Connecting Bar
	60923	16' Stabilizer Connecting Bar
19	59756	Pin
20	59638	Left Cart Pole Brace

ITEM	PART NO	DESCRIPTION
21	59555	13' Air Master Main Hitch
	59655	16' Air Master Main Hitch
22	88290	3/4NCx2 GR5 Bolt
23	59559	Cart Mount
24	33004	Pin
25	88305	3/4NCx5 GR5 Bolt
26	24415	Jack
27	21527	Hose Holder Bracket
28	59636	Cart Hitch
29	23013	Click Pin
30	59637	Right Cart Pole Brace
31	88395	5/8NCx5 GR5 Bolt
32	60597	Plate (Black)
33	59739	Stabilizer Bracket
34	88476	5/8NCx8 GR5 Bolt
35	88981	1/2NCx1-1/4 SQ HD Cup PT Set Screw
36	88290	3/4NCx2 GR8 Bolt
37	61608	Air Seeder Cart Frame

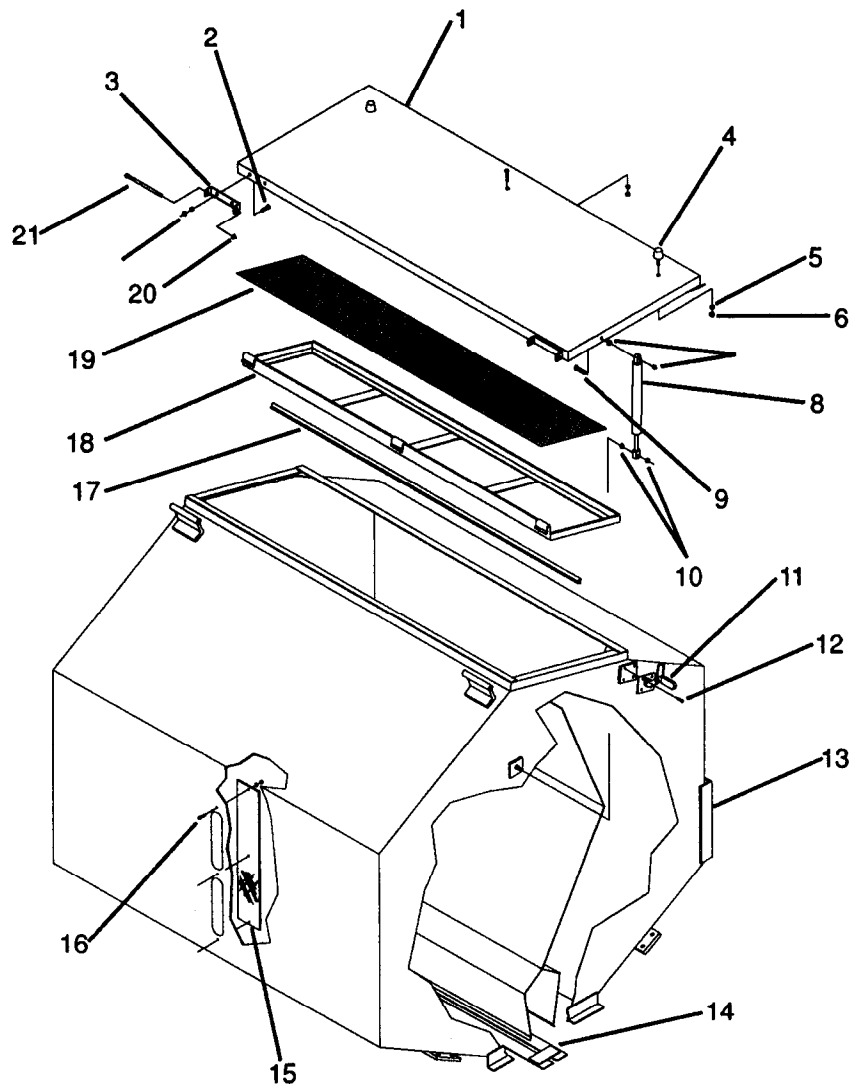
CATWALK & LADDER ASSEMBLY



CI-78868

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
1	89011	3/8NCx2 GR5 Bolt	11	59743	Ladder Lower Step
2	59705	Platform Rail	12	88604	3/4NCx2 GR5 Bolt
3	59727	Small Tank Platform Support	13	60670	Spring Assist Lift Lock
	59703	Large Tank Platform Support	14	88581	3/8NCx2-1/4 GR5 Bolt
4	59759	Grip Trac Channel Plank 11'4"	15	61608	Air Seeder Cart Frame
5	59718	Ladder Rail	16	88475	1/2NCx1-1/2 GR5 Bolt
6	88347	1/2 Flat Washer	17	59702	Platform Support
7	88410	1/2NCx2-1/2 GR5 Bolt	18	59758	Grip Trac Channel Plank 4'5"
8	59901	Air Spring Cylinder	19	59902	Platform Support Plate (Black)
9	59717	Ladder Upper Step	20	59704	Platform End Rail
10	88555	3/8NCx1-1/4 GR5 Bolt	21	88162	3/8NC Lock Nut

TANK ASSEMBLY

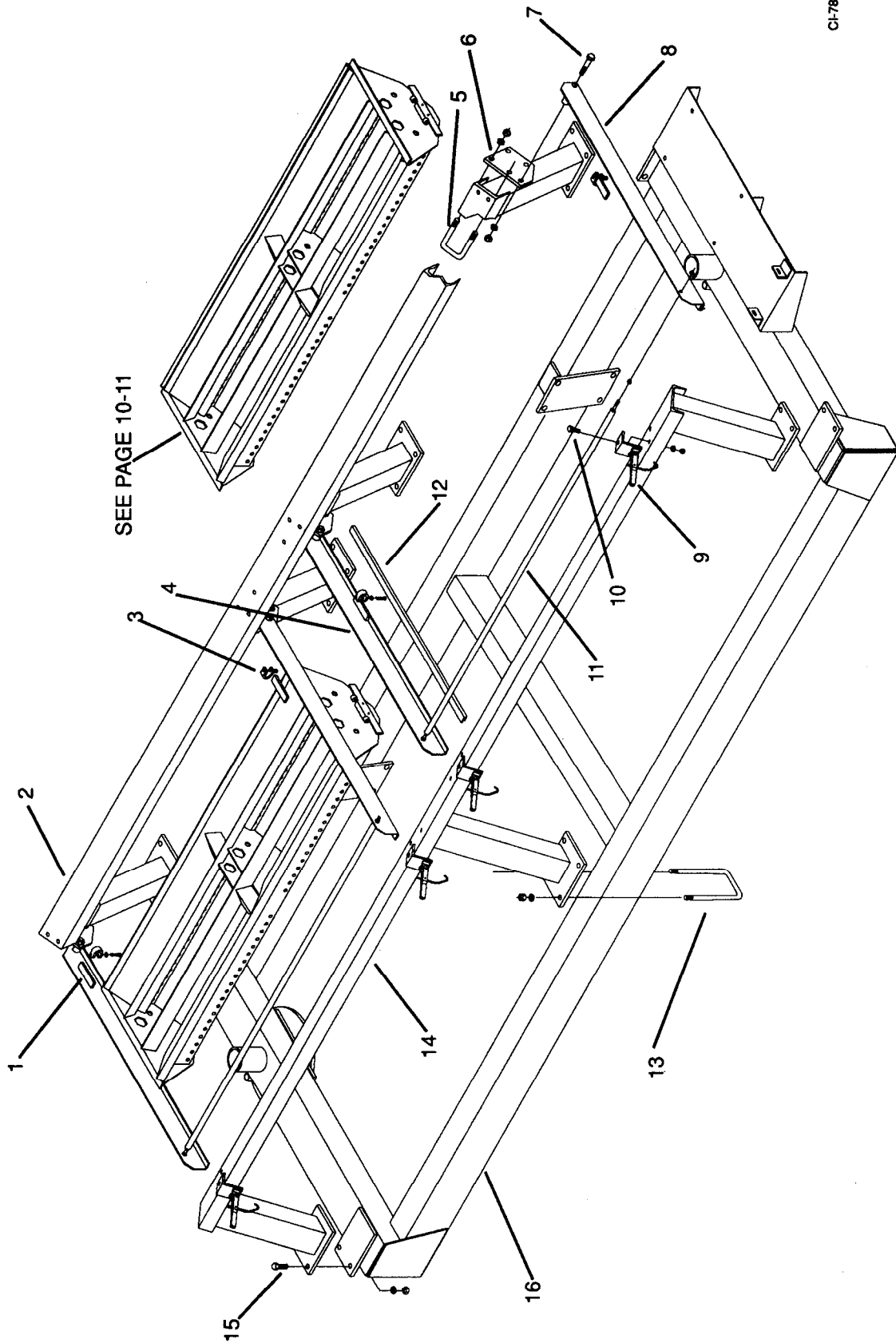


CI-78876

ITEM	PART NO	DESCRIPTION
1	59812	Tank Cover
2	88566	3/8NCx3/4 GR5 Bolt
3	59650	Tank Cover Hinge Bracket
4	59663	Bumper
5	88358	5/16 Lock Washer
6	89107	5/16NF Nut
7	88162	3/8NC Lock Nut
8	59901	Air Spring Cylinder
9	88555	3/8NCx1-1/4 GR5 Bolt
10	88162	3/8NC Lock Nut
11	59662	Cover Clamp
12	88876	1/4NCx1/2 GR5 Bolt
13	59816	Right Small Tank (110 Bu.)
	59817	Left Small Tank (110 Bu.)
	59818	Right Large Tank (160 Bu.)
	59819	Left Large Tank (160 Bu.)

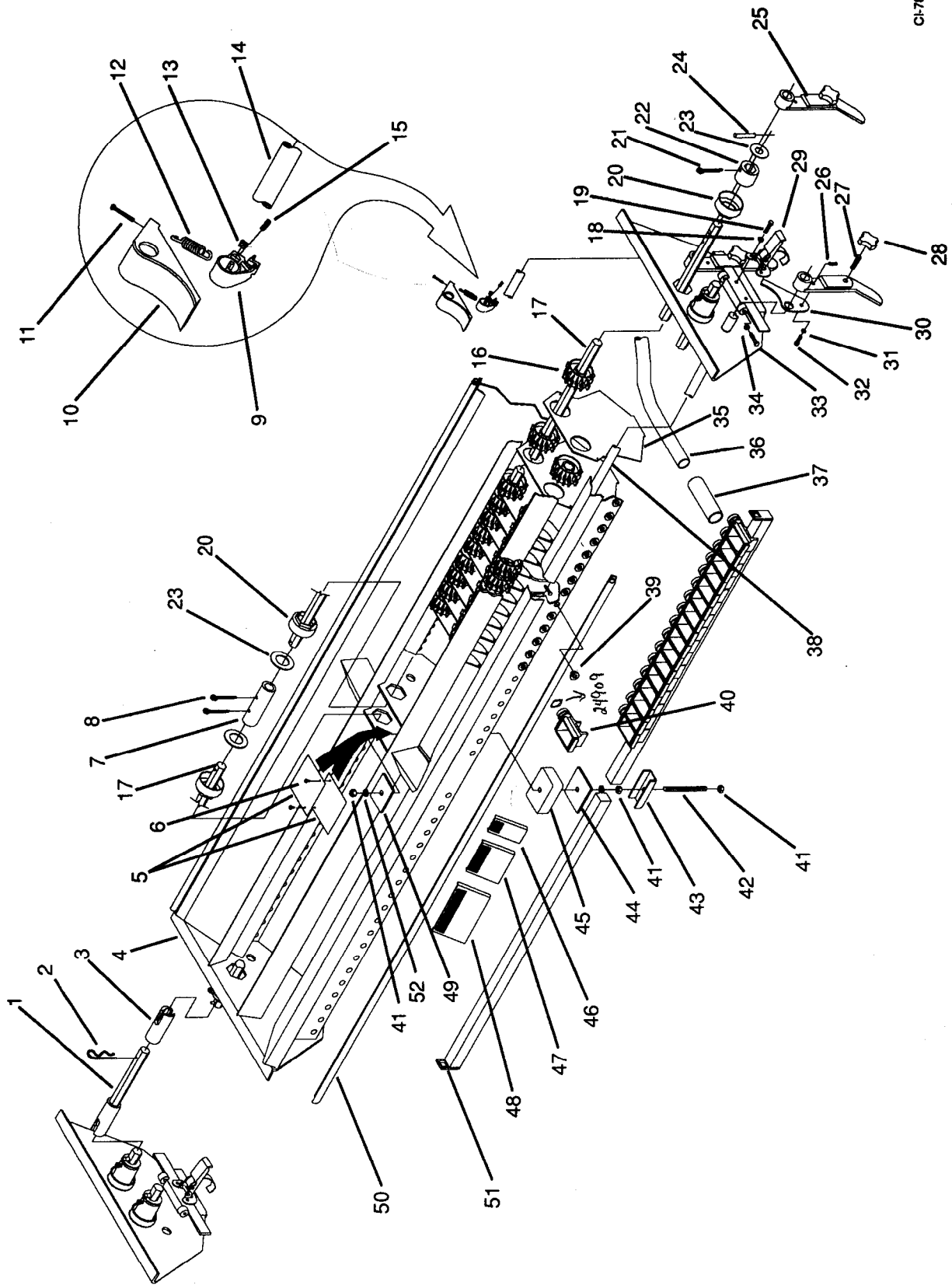
ITEM	PART NO	DESCRIPTION
14	61666	Manifold Baffle
15	59872	Single Window (110 Bu. Tank)
	59873	Large Window (160 Bu. Tank)
16	88880	1/4NCx3/4 GR2 Bolt
17	60026	Tank Weather Strip
18	59808	Tank Screen Bracket
19	59802	Tank Screen
20	88363	1/2NC Lock Nut
21	89084	1/2NCx6 GR5 Bolt

TANK SUPPORT COMPONENTS



ITEM	PART NO	DESCRIPTION
1	61639	Side Clamp Strap
2	59568	Rear Tank Strap
3	61571	Feeder Slide Clamp
4	59766	Right Feeder Guide
5	88503	5/8NCx3x5-1/4 U-Bolt
6	59752	Plate
7	88409	5/8NCx2-1/2 GR5 Bolt
8	59767	Left Feeder Guide
9	59879	Clamp Weldment
10	88475	1/2NCx1-1/2 GR5 Bolt
11	59751	Feeder Guide Support Tube
12	60028	36 Inch Slide
13	89097	5/8NCx4x7-1/4 U-Bolt
14	59567	Front Tank Support
15	88294	5/8NCx2 GR5 Bolt
16	61608	Air Seeder Cart Frame

FEEDER ASSEMBLY

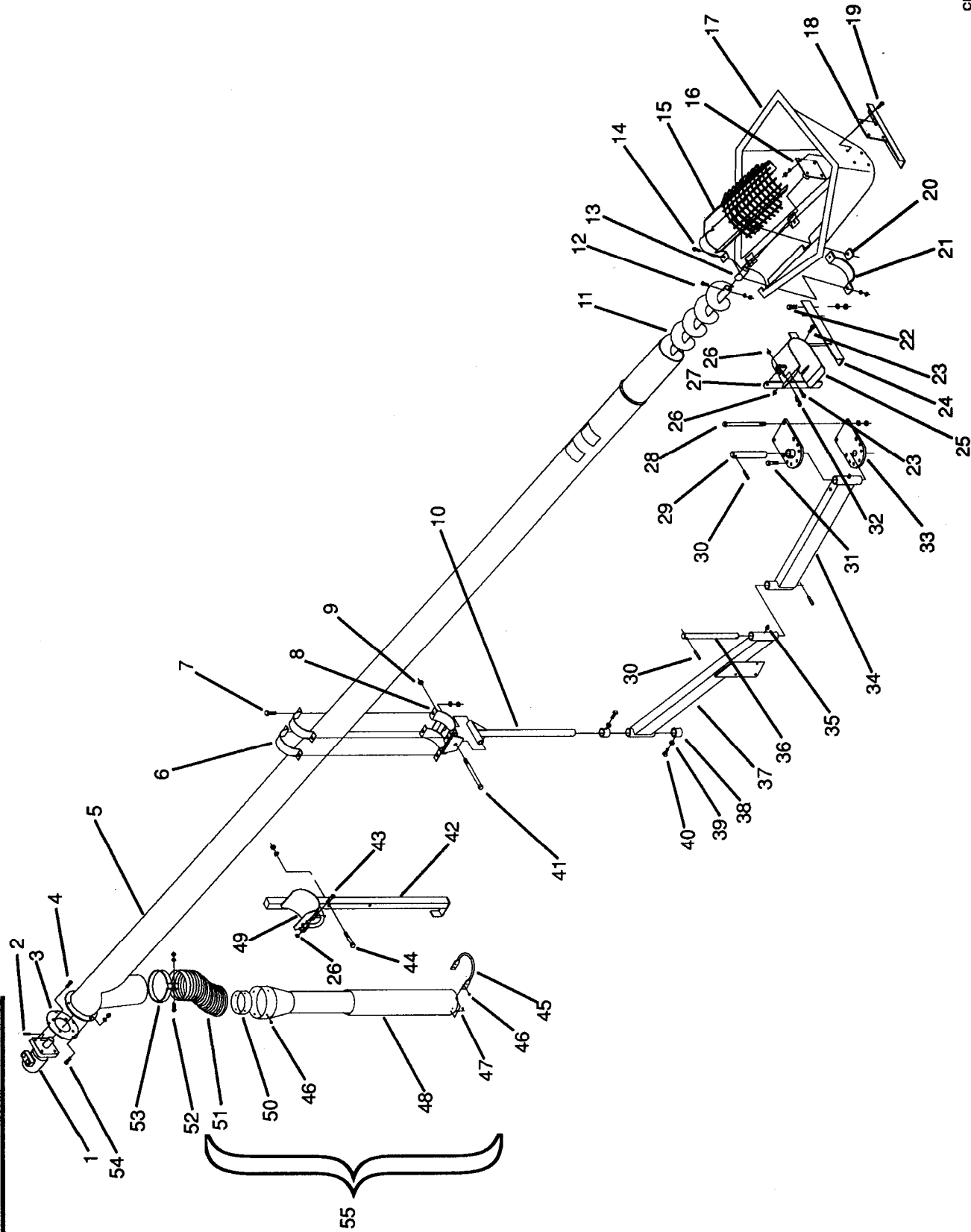


CI-78870A

ITEM	PART NO	DESCRIPTION
1	59683	7/8 Hex x 13.38 Shaft
2	23039	Hairpin Cotter 2.69"
3	59824	7/8 Hex Shaft Connector
4	59544	Feeder
5	61663	Center Bearing Cover
6	89104	#8-32x3/8 Sheet Metal Screw
7	59514	Feeder Center Coupler
8	88301	3/16Diax1-1/2 Cotter Pin
9	59537	Feeder Flap Hub
10	59506	Feeder Flap
11	89100	#10-24x1-1/4 HH SST Screw
12	59548	Flap Spring
13	89101	#10NC SST Sq. Nut
14	59549	Flat Shaft
15	89103	#10NCx1/2 AHD Cone SST Set Screw
16	59505	Feed Wheel
17	59515	Feeder Drive Shaft
18	88878	1/4 Lock Washer SST
19	88876	1/4NCx1/2 GR5 Bolt SST
20	59500	Feeder Shaft Bushing <i>plastic</i>
21	88301	3/16Diax1-1/2 Cotter Pin
22	59640	End Sleeve
23	88440	1-1/4IDx1-7/8ODx14 GA. MCHRY Bushing
24	88391	3/8 Dia x1-1/2 Roll Pin
25	61449	Offset Flap Handle
26	89102	5/16NCx1/2 Cone PT SST Set Screw
27	61167	3/8NCx1-3/8 Ready Rod
28	59938	3/8NC Knob

ITEM	PART NO	DESCRIPTION
29	59666	Cup Tension Latch
30	59894	Flap Indicator
31	88878	1/4 Lock Washer SST
32	88876	1/4NCx1/2 GR5 Bolt SST
33	89105	1/4NCx1 SST Bolt
34	88875	1/4NC Nut SST
35	59513	Feed Wheel Divider
36	56193	Tubing White 3/4" ID x 1" OD x 1' (Available in 400' Rolls)
37	61380	1" ID Clear Braid (1 Foot)
	59931	Black Rubber Hose (4") (used w/ 3/4" ID Hose only)
38	59549	Flap Shaft
39	59918	BP-1/2-4 Caplug
40	59538	Feed Cup
41	88103	3/8NC Nut
42	59789	3/8NCx4-1/2 Ready Rod
43	59878	Tube Joiner
44	59786	Plate
45	59788	Rubber Spacer
46	61674	Single Blockoff Assembly
47	61675	Double Blockoff Assembly
48	61676	Triple Blockoff Assembly
49	59787	Plate (Threaded)
50	60025	Feeder Weather Strip <i>to 2158</i>
51	59877	Tube Weldment
52	88362	3/8 Lock Washer
	20413	<i>magnetic gage</i>
	24909	<i>CAP Plug</i>

AUGER ASSEMBLY

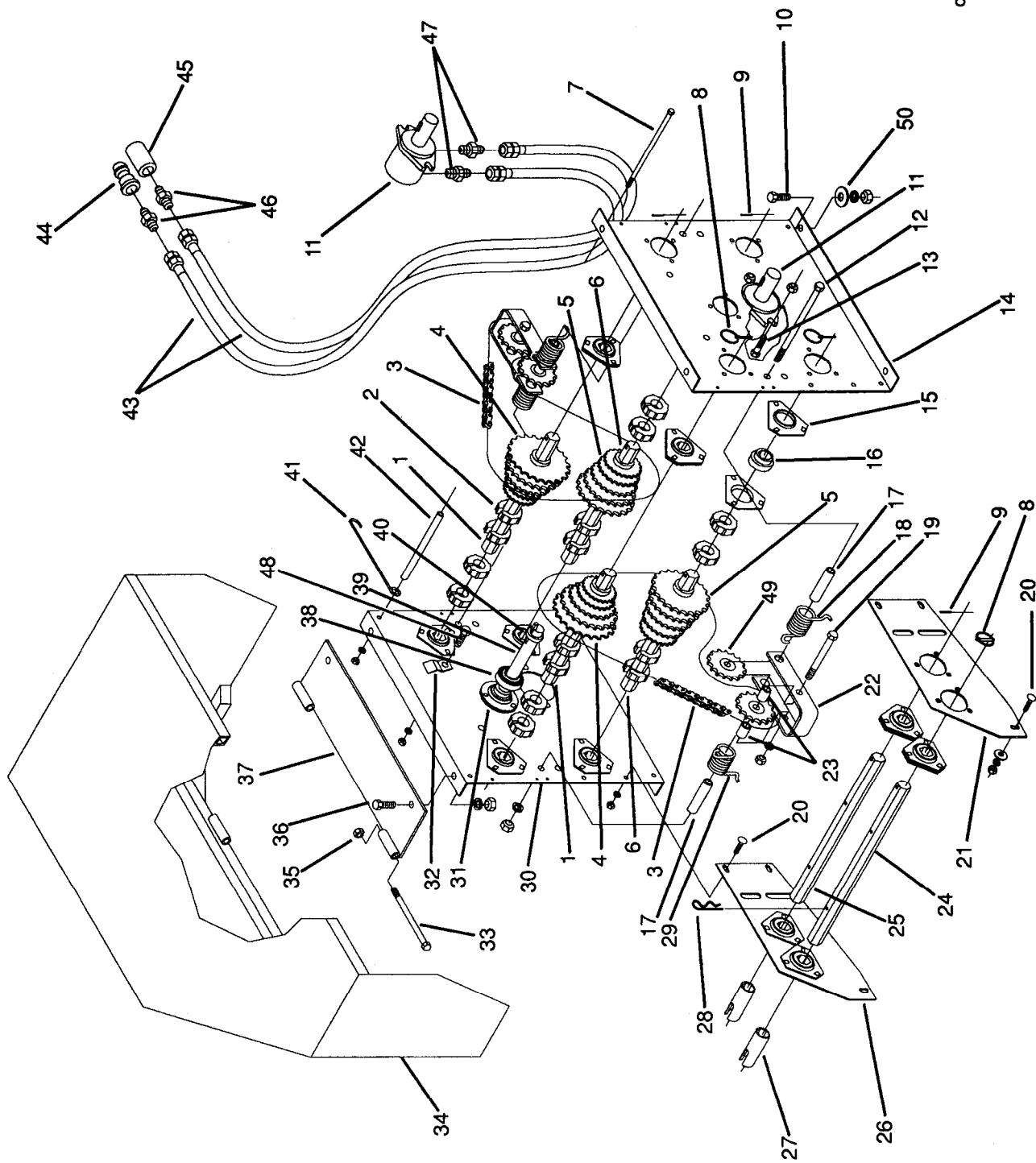


CI-78722

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
1	60649	Auger Motor (Black)	29	59643	Auger Pivot Shaft
2	88391	3/8 Dia x1-1/2 Roll Pin	30	88769	3/8 Dia x 2 Roll Pin
3	59574	Auger Motor Plate	31	88410	1/2NCx2-1/2 GR5 Bolt
4	89034	3/8NCx1 GR5 Bolt	32	88352	3/16 Dia x3-1/4 Spring Lock Pin
5	59570	Auger Tube Assembly	33	59629	Auger Pivot Plate
6	59780	Half Moon Clamp (Black)	34	59647	Lower Auger Pivot Arm
7	88553	3/8NCx1-1/2 GR5 Bolt	35	88550	1/4NF Grease Fitting
8	59779	Auger Holder Clamp (Black)	36	59645	Auger Pivot Shaft <i>59644</i>
9	88369	5/8NC Lock Nut	37	59648	Auger Pivot Arm
10	59745	Candle Stick Stand	38	17344	Collar
11	61825	18-1/2' Auger Flighting Assembly	39	88561	1/2NC Jam Nut
	61819	18-1/2' Brush Auger Flighting	40	88446	1/2NCx1 SQ HD Set Screw
12	89011	3/8NCx2 GR5 Bolt (used w/61819 only)	41	88383	5/8NCx7 GR5 Bolt
13	59814	Stub Shaft (used w/61819 only)	42	59777	Auger Support Stand
14	88553	3/8NCx1-1/2 GR5 Bolt	43	89011	3/8NCx2 GR5 Bolt
X15	59773	Auger Clamp <i>OS 59763</i>	44	88410	1/2NCx2-1/2 GR5 Bolt
X16	59754	Auger Bearing Mount	45	12697	Spout Handle
17	59885	Seed Hopper w/Hole	46	88245	SD 64BSLF Pop Rivet
18	59757	Auger Bracket Mount	47	14663	PopRivet Backup Washer
19	88555	3/8NCx1-1/4 GR5 Bolt	48	17443	Grain Spout
20	59810	Plate	49	61612	Top Auger Rest
21	59764	Half Moon Clamp (Lower)	50	12696	Spout Hose Reinforcement
22	88294	5/8NCx2 GR5 Bolt	51	17460	Flex Hose Tubing 8"
23	88553	3/8NCx1-1/2 GR5 Bolt	52	88171	1/4NCx2-1/2 GR2 Bolt
24	61618	Rest Angle	53	12154	Clamp
25	61617	Bottom Auger Cradle	54	89034	3/8NCx1 GR5 Bolt
26	88162	3/8NC Lock Nut	55	17444	Adjustable Spout
27	59770	Strap			(Includes 45-48, 50, 51)
28	88476	5/8NCx8 GR5 Bolt			<i>coupler</i>

61824

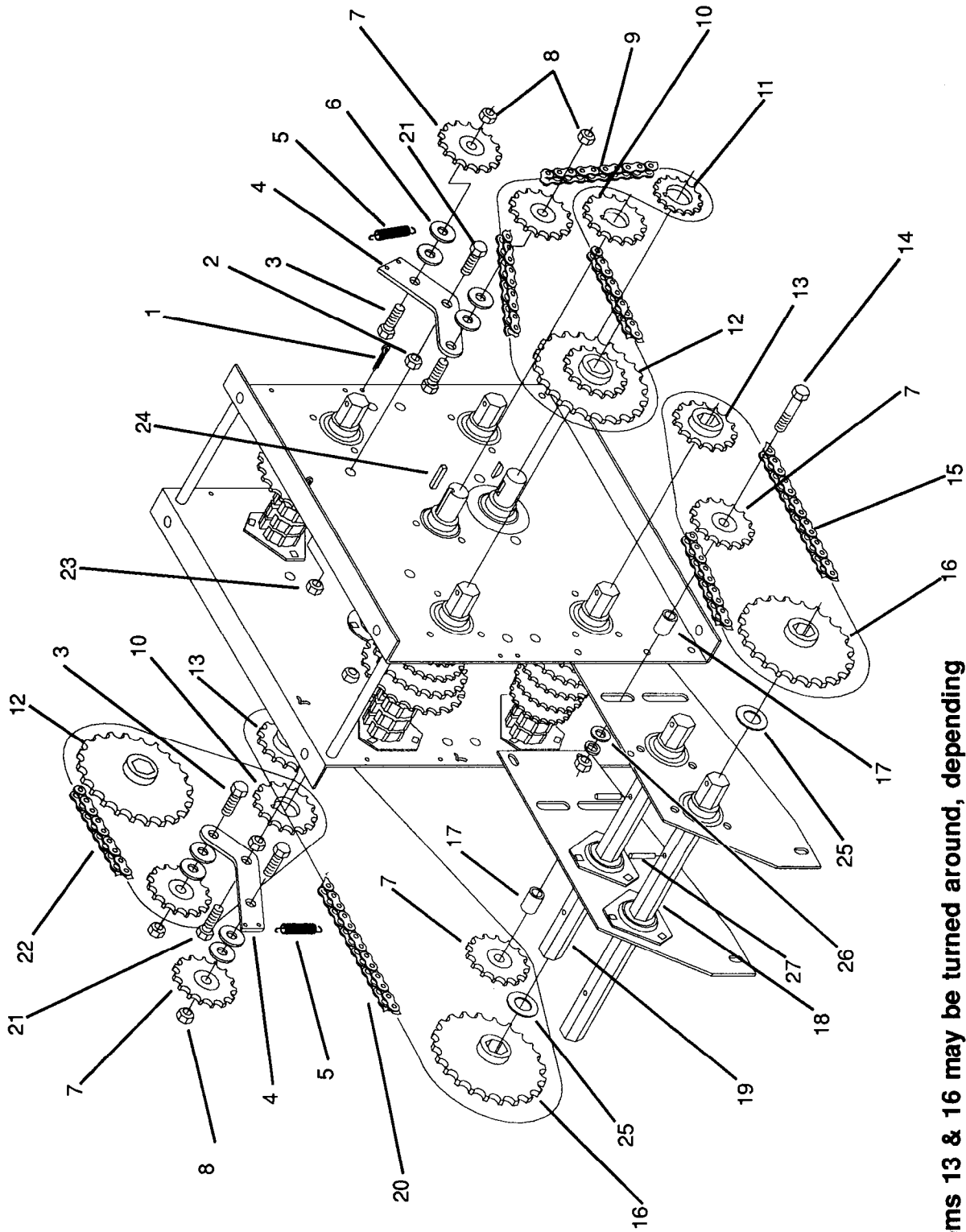
INNER TRANSMISSION COMPONENTS



CI-78725

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
1	59583	7/8 Hex x10.50 Shaft	27	59824	7/8 Hex Shaft Connector
2	59508	Gear Spacer	28	23039	Hairpin Cotter 2.69"
3	59828	#40 Roller Chain (39")	29	60647	Right Torsion Spring
4	59591	Wide Range Cluster	30	59509	Right Transmission Panel (Black)
5	59592	Narrow Range Cluster	31	21129	Flangette
6	59584	7/8 Hex x 9.81 Lower Shaft		21130	Basket Bearing
7	89099	5/16NCx8 GR5 Bolt	32	59586	Rod Holder
8	59886	3/16Dia Klick Pin	33	88583	3/8NCx5-1/2 GR5 Bolt
9	88856	3/16 Dia x 1-1/8 Roll Pin	34	60929	Transmission Shield
10	89015	1/2NCx1 GR5 Bolt	35	88162	3/8NC Nut
11	59677	Transmission Mtr w/2 Bolt Mtg	36	88554	1/2NCx1-1/4 GR5 Bolt
12	88677	1/2NCx8 GR5 Bolt	37	60930	Transmission Shield Pivot
13	88554	1/2NCx1-1/4 GR5 Bolt	38	60015	Actuator Wheel
14	59510	Left Transmission Panel (Black)	39	59594	3/4 OD x 10.50 Shaft
15	59893	Triangle Flangette	40	60637	Locking Collar
16	59892	7/8 Hex Bore Bearing	41	59585	Lockout Rod
17	60639	3/4OD x 3.25 Spacer Bushing	42	59887	1/2OD x 7.00 Spacer Tube
18	60648	Left Torsion Spring	43	14644	3/8x36 Hose (FF) JIC/JIC
19	88595	1/2NCx4 GR5 Bolt	44	45760	Coupler 1/2 Body Half 2 Way
20	89000	5/16NCx3/4 Sht NK Carriage Bolt	45	60640	Quick Disconnect Coupler
21	59811	Transmission Ext Plate (Black)	46	13234	3/4 JICx1/2 NPT Adapter
22	59589	Transmission Idler Bracket	47	59939	3/4JICx7/8 O-Ring Connector
23	59883	3/4OD x 1.1.2 Spacer Bushing	48	89015	1/2NCx1 GR5 Bolt
24	59820	7/8 Hex x 17.00 Drive Shaft	49	59684	No. 40-14 Idler Sprocket
25	59821	7/8 Hex x15.50 Drive Shaft	50	88347	1/2 Flat Washer
26	59811	Transmission Extension Plate (black)			

OUTER TRANSMISSION COMPONENTS

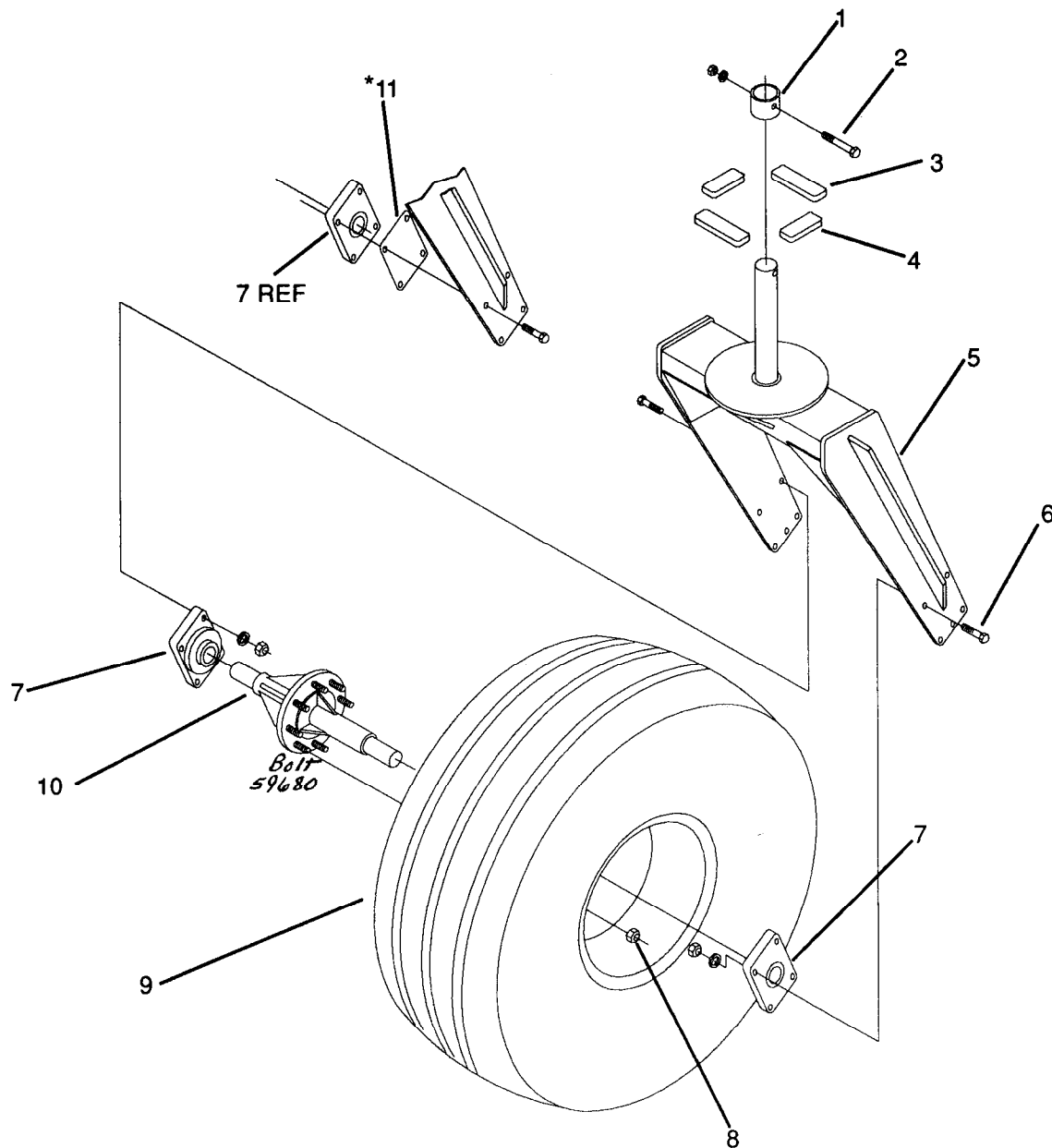


Note: Items 13 & 16 may be turned around, depending on gear range you are using.

ITEM	PART NO	DESCRIPTION
1	88758	3/16 Dia x 1 Cotter Pin
2	88561	1/2NC Jam Nut
3	88475	1/2NCx1-1/2 GR5 Bolt
4	59882	Idler Bracket
5	59665	Transmission Idler Spring
6	59888	.531 ID x 1.00 OD x .134 Washer
7	59684	No. 40-14 Idler Sprocket
8	88363	1/2 NC Lock Nut
9	59829	#40 Roller Chain (46")
10	59605	40 B16 Sprocket w/3/4 Bore Keyed
11	59656	40 B12 Sprocket w/1" Bore Keyed
12	59612	Hi-Low Cluster
13	59823	28 Tooth Sprocket

ITEM	PART NO	DESCRIPTION
14	88410	1/2NCx2-1/2 GR5 Bolt
15	59827	#40 Roller Chain (36")
16	59822	14 Tooth Sprocket
17	59884	3/4OD x .75 Idler Spacer
18	59820	7/8 Hex x 17.00 Drive Shaft
19	59821	7/8 Hex x 15.50 Drive Shaft
20	59830	#40 Roller Chain (53")
21	88517	1/2NCx1-3/4 GR5 Bolt
22	59826	#40 Roller Chain (35")
23	88363	1/2NC Lock Nut
24	59658	3/16SQ x 1 Key
25	59889	1.031 ID x 2 OD x.179 THK Washer
26	88347	1/2 Flat Washer
27	88856	3/16Dia x 1-1/8 Roll Pin

WHEEL ASSEMBLY



CI-78875

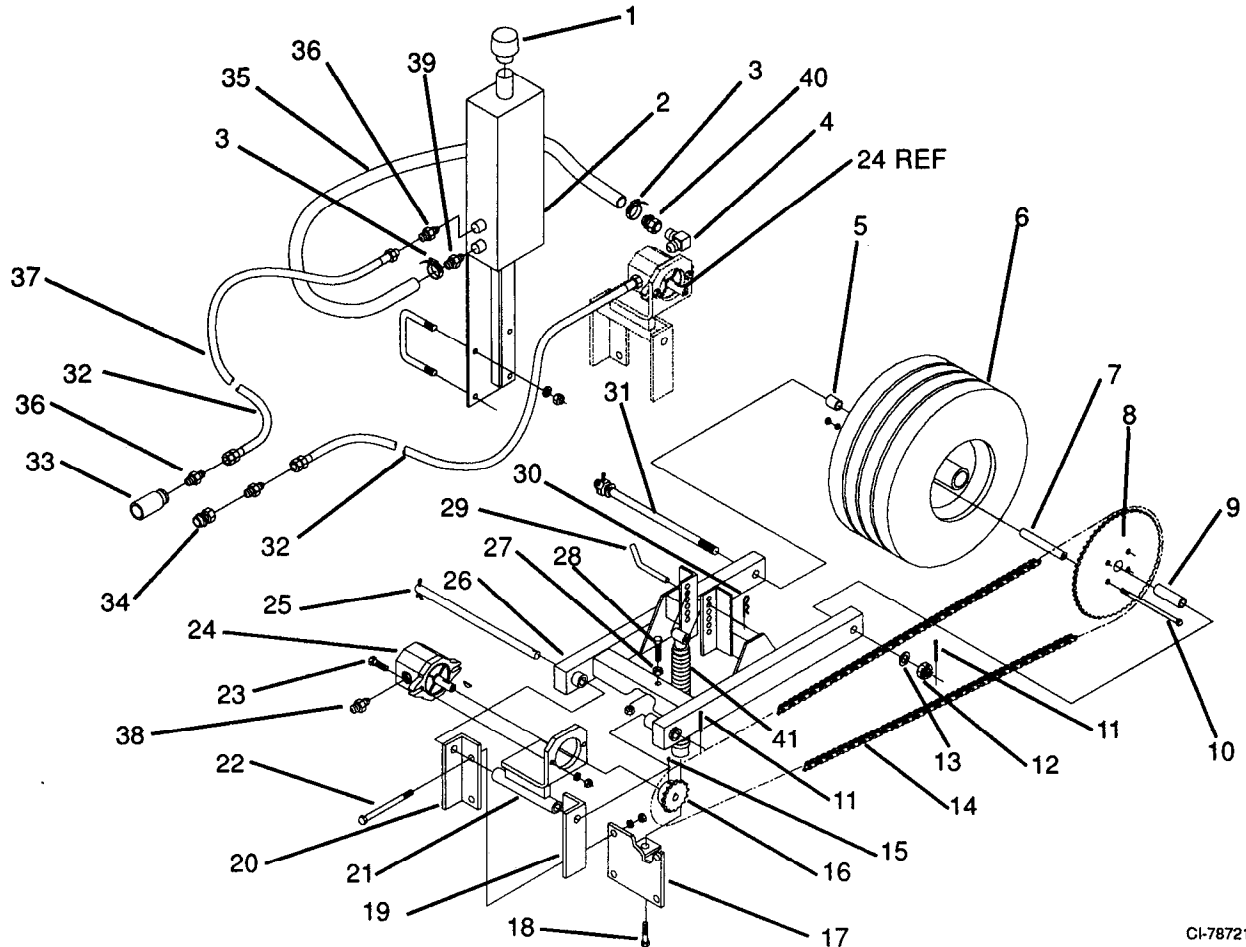
ITEM	PART NO	DESCRIPTION
1	59839	Tube 16009
2	88298	5/8NCx4 GR5 Bolt
3	60029	2x5 Pad
4	61636	2x3 Pad
5	61823	Axle Yoke Pivot
6	88409	5/8NCx2-1/2 GR5 Bolt
7	59679	Axle Bearing 2" Dia 4 Bolt

ITEM	PART NO	DESCRIPTION
8	59681	Wheel Nut
9	59915	21.5x16.1 Wheel Assembly
	57908	Valve Assembly
	59669	21.5x16.1 SL 10 Ply Tire
	59670	Rim 16.1x16 8 Bolt
10	61387	HD Cart Axle 63823
11	*61300	Cart Axle Bearing Gasket

* Item 11 (61300) is used on previous style Axle Yoke Pivot (59615) which is obsolete and replaced by 61823.

New Axle Yoke Pivot (61823) Does not require a Cart Axle Bearing Gasket (61300).

DRIVE WHEEL ASSEMBLY

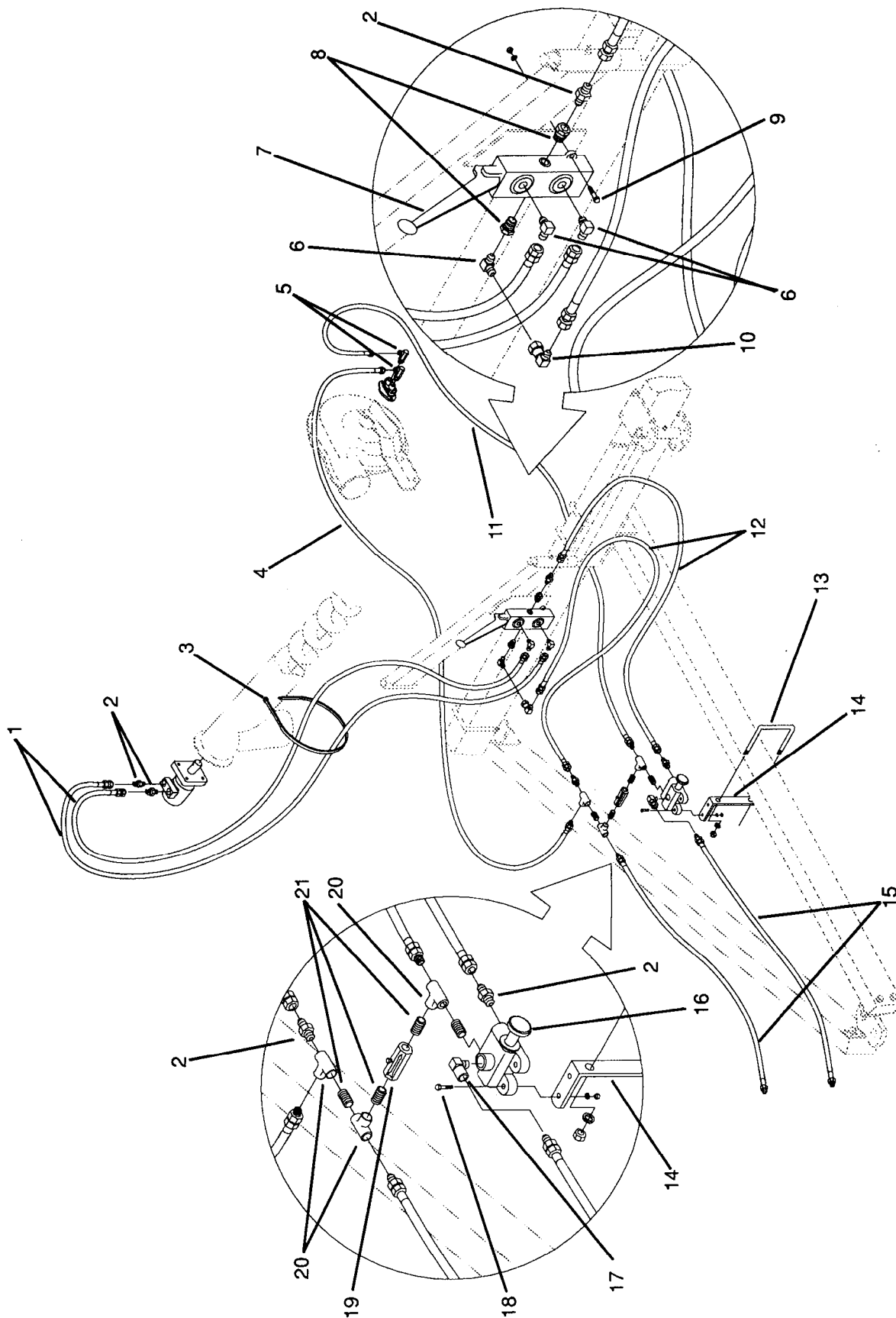


CI-78721

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
1	59621	Oil Cap	21	59546	Drive Leg Motor Mount
2	59848	Oil Reservoir	22	88395	5/8NCx 5 GR5 Bolt
3	17553	1-1/4" Hose Clamp	23	88553	3/8NCx1-1/2 GR5 Bolt
4	59940	1-1/16 O-Ringx3/4 NPT 90 SW Elbow	24	59676	Drive Wheel Pump
5	59834	Tube 1ODx.760IDx1-3/16	25	59730	Shaft (3/4x15-1/4)
6	59664	Drive Wheel w/Tube & Holes	26	59545	Drive Leg
7	59832	Tube 3/4ODx3/8IDx5-5/16	27	88104	1/2NC Nut
8	59837	Sprocket Hub	28	23153	1/2NCx2 Full Thread Bolt
9	59833	Tube 1ODx.760IDx3-3/16	29	23048	Pin
10	88482	3/8NCx7 GR2 Bolt	30	23039	Hair Pin Cotter 2.69"
11	88301	3/16 Dia x1-1/2 Cotter Pin	31	59836	Axle Shaft 3/4NFX15-1/2
12	88300	3/4NF Slotted Nut	32	13484	3/8X156 Hose (FF) JIC/JIC
13	88548	3/4 SAE Flat Washer	33	60640	Quick Disconnect Coupler
14	59831	#40 Roller Chain (67")	34	45760	Coupler 1/2 Body Half 2 Way
15	89033	1/4NCx1/4 Allen Cone Set Screw	35	60584	3/4 Ag Hose (41")
16	59654	40B20 Sprocket w/5/8 Bore Key	36	13234	3/4JICx1/2NPT Adapter
17	59733	Spring Mount	37	88510	5/8NCx4X4-1/4 U-Bolt
18	88410	1/2NCx2-1/2 GR5 Bolt	38	59939	3/4JICx7/8 O-Ring Connector
19	59729	Left Angle	39	59942	3/4HBx1/2NPT Connector
20	59728	Right Angle	40	60928	3/4NPTx3/4HB Connector
			41	60012	Spring

Seal Kit
62551

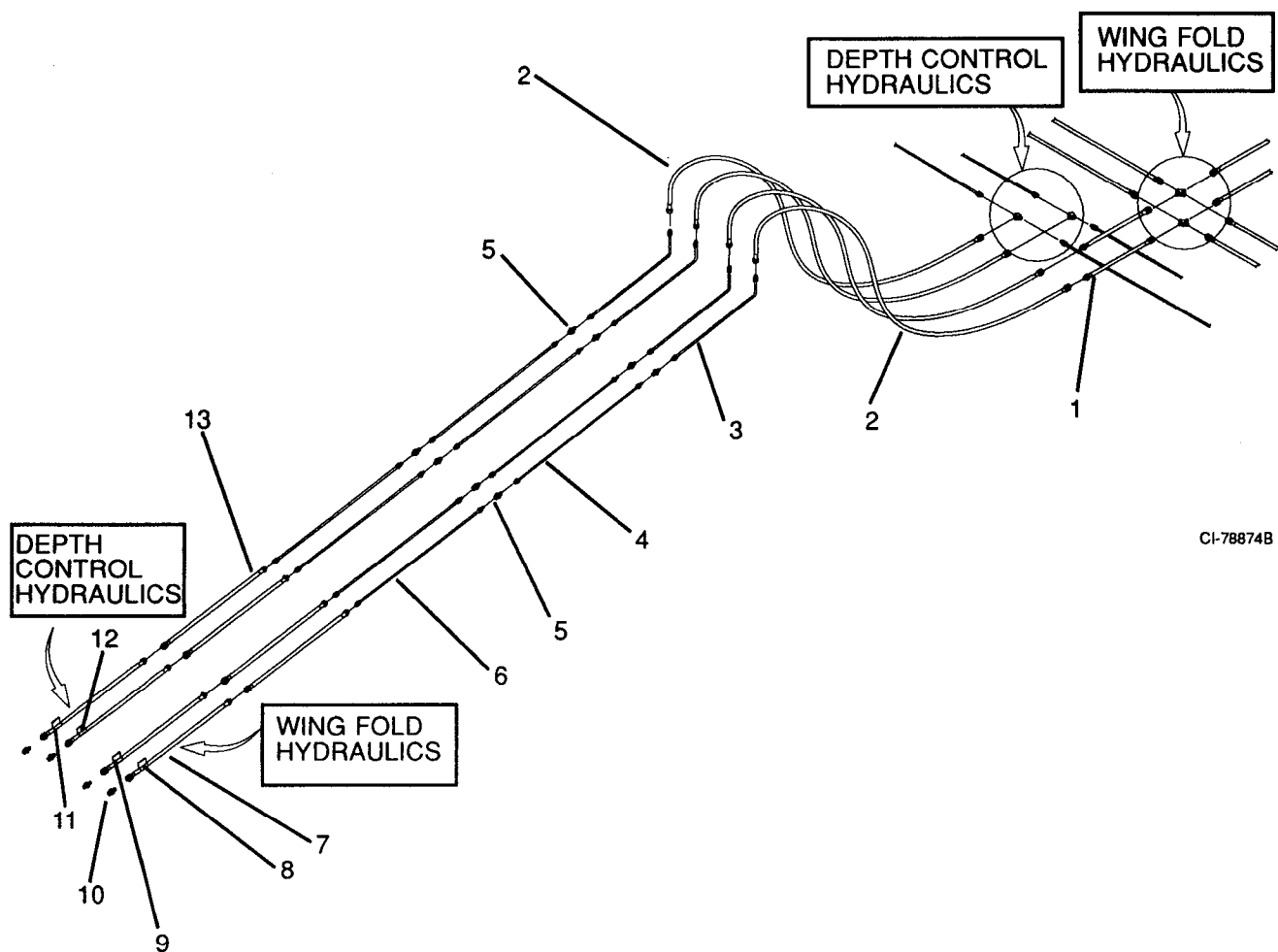
AUGER & FAN HYDRAULICS



CI-79874

ITEM	PART NO	DESCRIPTION
1	59909	3/8X168 Hose (FF) JIC/JIC
2	13234	3/4JICx1/2NPT Coupler Adapter
3	13479	4" Square Tie Loop
4	10723	1/2x84 Hose (MM) NPT/NPT
5	59941	7/8 O-Ring x 1/2NPT 90° SW Elbow
6	13236	3/4JIC x 1/2Npt Port Elbow
7	60650	SGL Spool w/Detent Valve (Black)
8	88197	Hyd Reducing Bushing 3/4NPT to 1/2NPT
9	88499	3/8NCx 2 Bolt
10	25591	3/4 JIC (MF) Swivel Elbow
11	10723	1/2x84 Hose (MM) NPT/NPT
12	13482	3/8x108 Hose (FF) JIC/JIC
13	53978	1/2NCx4x5 U-Bolt (1" Thread)
14	59946	Selector Valve Bracket
15	59945	1/2x156 Hose (MM) NPT/NPT
16	60651	S-50 Selector Valve
17	23840	1/2 NPT 90° Street Elbow
18	88544	5/16NCx2 GR5 Bolt
19	22917	Check Valve 1/2 NPT
20	88138	1/2NPT Hyd Pipe Female Tee
21	42592	1/2 NPT Close Nipple

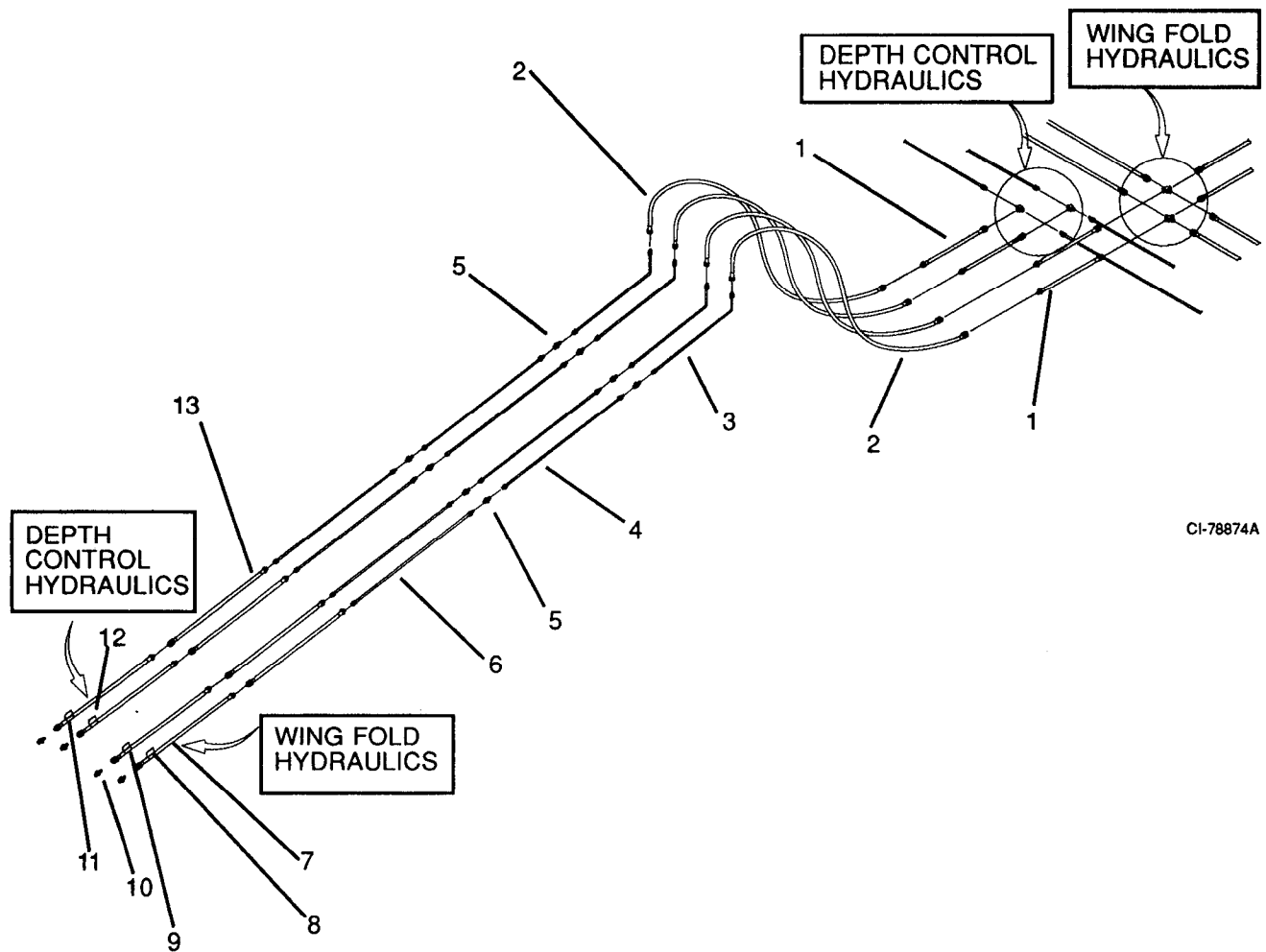
13' EXTENDED HYDRAULICS



CI-78874B

ITEM	PART NO	DESCRIPTION
1	13259	3/8x18 Hose (MF) JIC/JIC
2	13264	3/8x48 Hose (MF) JIC/JIC
3	13258	1/2x60+2 Hyd Tube
4	20465	1/2x48 Hyd Tube
5	13239	3/4JIC Hose Union
6	21037	1/2x72 Hyd Tube
7	13267	3/8x72 Hose (MF) JIC/JIC
8	54900	Wing Up Decal
9	54901	Wing Down Decal
10	13234	3/4JICx1/2NPT Coupler Adapter
11	54903	Main Down Decal
12	54902	Main Up Decal
13	13260	3/8x24 Hose (MF) JIC/JIC

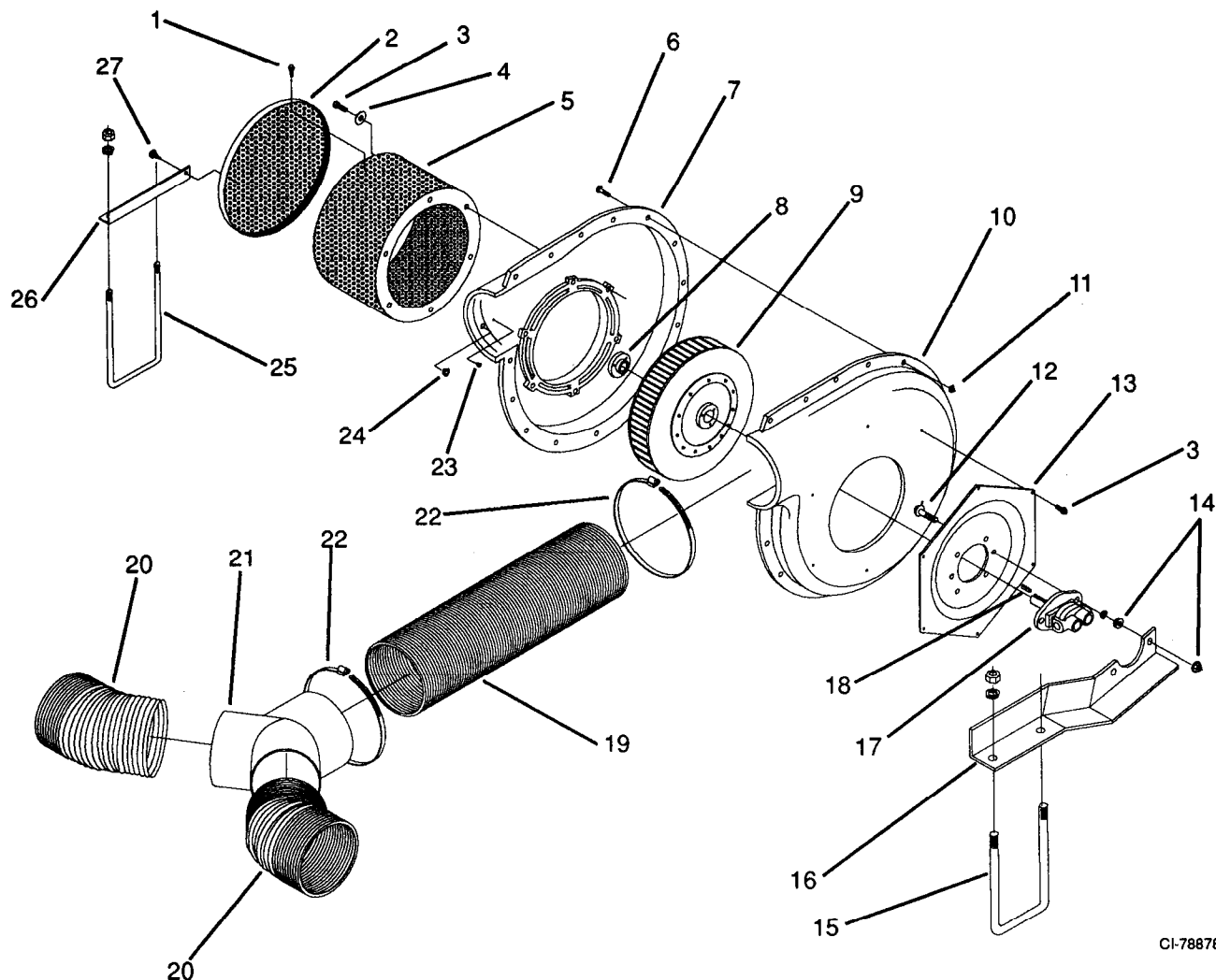
16' EXTENDED HYDRAULICS



CI-78874A

ITEM	PART NO	DESCRIPTION
1	13259	3/8x18 Hose (MF) JIC/JIC
2	13264	3/8x48 Hose (MF) JIC/JIC
3	13258	1/2x60+2 Hyd Tube
4	13254	1/2x80 Hyd Tube
5	13239	3/4 JIC Hose Union
6	20465	1/2x48 Hyd Tube
7	13267	3/8x72 Hose (MF) JIC/JIC
8	54900	Wing Up Decal
9	54901	Wing Down Decal
10	13234	3/4 JICx1/2 NPT Coupler Adapter
11	54903	Main Down Decal
12	54902	Main Up Decal
13	13260	3/8x24 Hose (MF) JIC/JIC

BLOWER ASSEMBLY

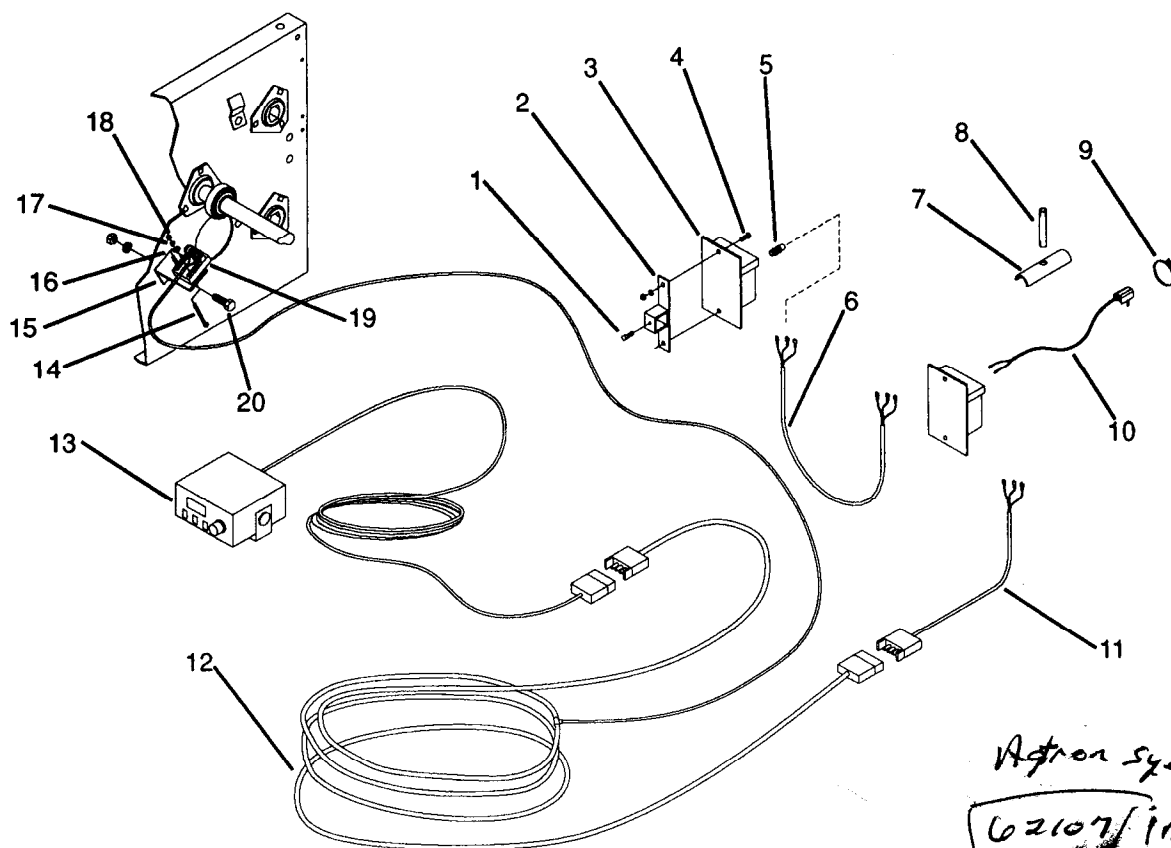


CI-78878

ITEM	PART NO	DESCRIPTION
1	89120	#14x1/2 Tapping Screw
2	61807	6" Fan Screen Cap
3	89118	1/4x3/4 Flange Hd Thread Cut Screw
4	89119	1/4" Fender Washer
5	61806	6" Fan Screen Weldment
6	89116	1/4NCx1 Serrated Flange Bolt
7	61803	6" Fan RH Side
8	59911	JA 9/16 Keyed Bushing (comes with Bolts)
9	61805	12.9x2.5 CCW Fan Rotor
10	61404	6" Fan LH side
11	89117	1/4NC Serrated Flange Nut
12	88671	7/16NCx1-3/4 GR5 Bolt
13	61808	Hub Motor Mount Plate 6"
14	88835	7/16NC Whiz Lock Nut (Flanged)

ITEM	PART NO	DESCRIPTION
15	89097	5/8NCx4x7-1/4 U-Bolt
16	59838	Fan Bracket
17	59678	Blower Motor
18	59866	1/8 SQ x 1 key
19	59922	Flex Hose Tubing (28")
20	17460	Flex Hose Tubing (8")
21	59920	Inlet Y
22	45743	7" SS Clamp 22-3/4" Long
23	61809	Plastic Plug 1/4"
24	19935	3T Caplug
25	89040	3/8NCx4x6-3/4 U-Bolt
26	59760	Angle
27	88474	#12x3/4 Sheet Metal Screw
	62554	Seal Kit
	60671	Seal only
	59936	Blower Assy w/Bracket

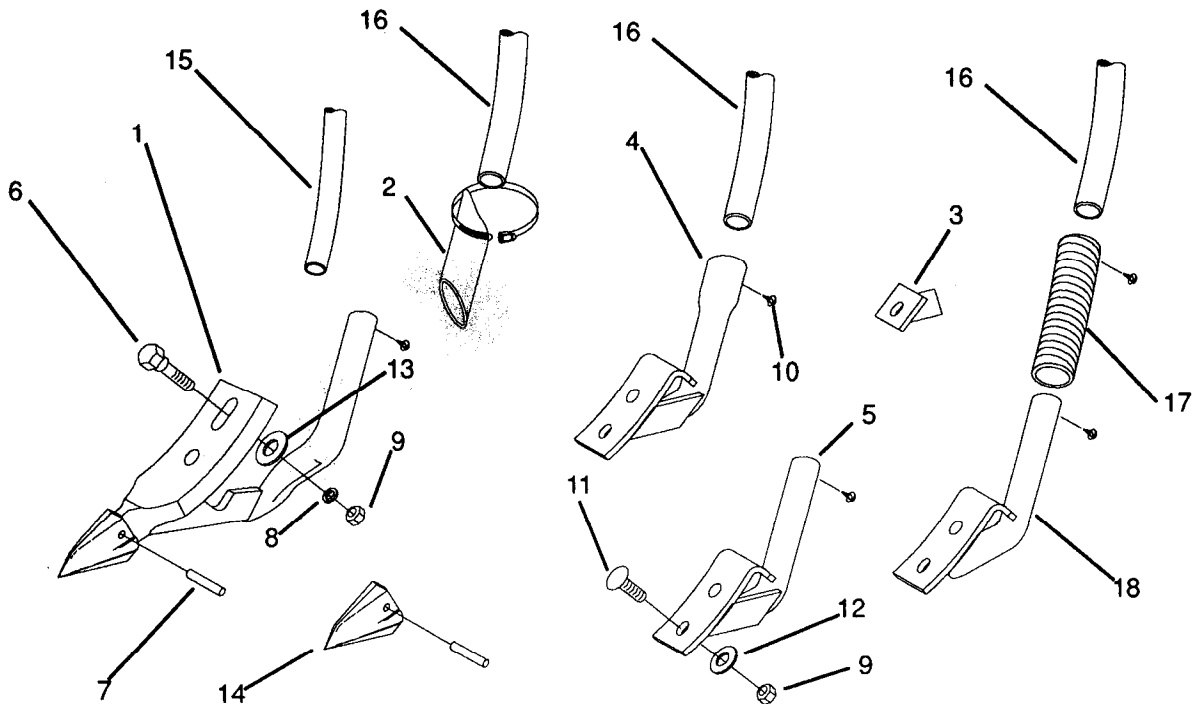
BLOCKAGE MODULE COMPONENTS



Astron System
62107 Infra Red
 Sensor
~~Blockage module~~
 is Round

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
	60691	Air Master Base Monitor (Includes Items 7,8,11-13,15,19)	11	60018	Module Lead
	60692	Blockage Module Kit (Includes Items 1-4,6,9)	12	60017	Cart Harness
1	88253	3/8NCx1/2 SQ HD Set Screw	13	60014	Monitor
2	61619	Module Box Mount	14	89109	#8NCx1 Machine Screw
3	58924	Blockage Module	15	60019	Sensor Bracket
4	88172	1/4NCx1 Bolt	16	89110	#8 Flat Washer
5	61846	Weather Tight Module Fitting	17	89111	#8 Lock Washer
6	60931	Module Interconnector	18	89108	#8NC Nut
7	61069	Sensor Hose Fixture	19	58884	Reed Switch
8	61060	Sensor Plug Bit	20	89015	1/2NCx1 GR5 Bolt
9	60698	3/4 Quick Hose Clamp			
10	58926	3FT Blockage Sensor			

INJECTOR COMPONENTS

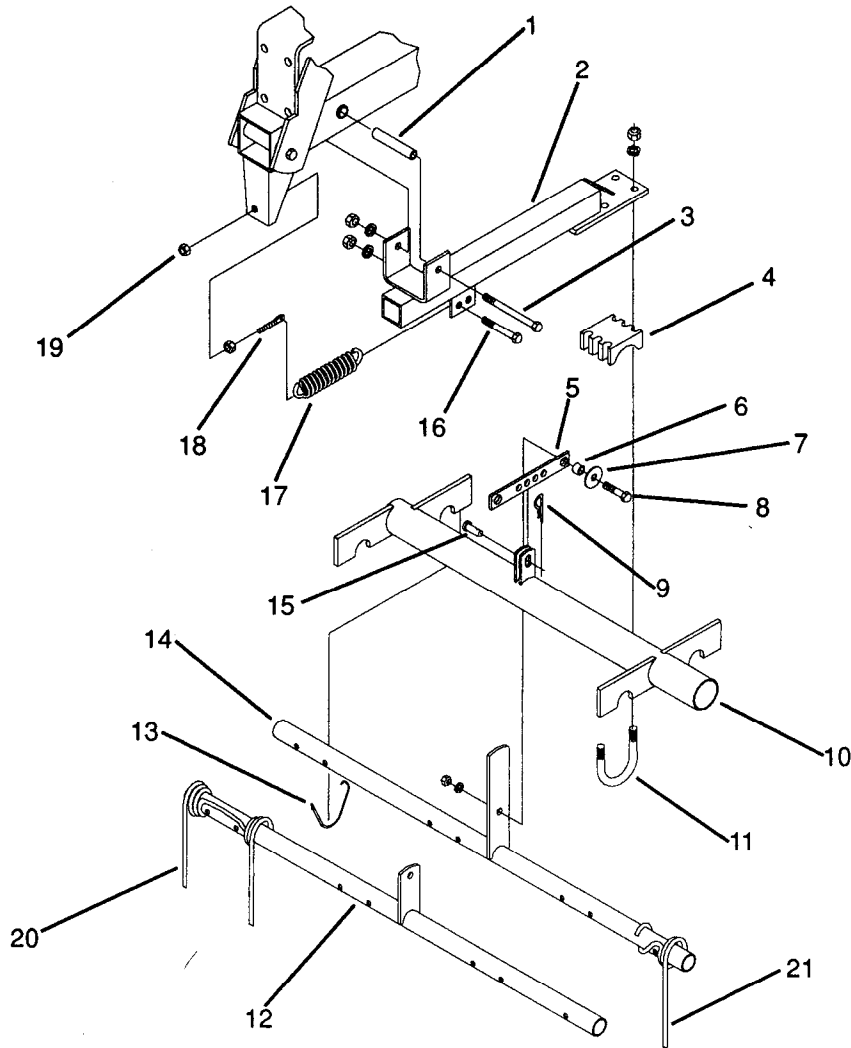


CI-78740

ITEM	PART NO	DESCRIPTION
1	59843	Dutch Hoe Opener w/Hdwe <i>61305</i>
2	61703	1" ID Hose Dutch Hoe Adapter
3	61000	Froc Injector Deflector
4	61704	1 Froc Injector w/Mud Clip <i>will also fit 3/4</i>
	61705	1 Froc Inj w/Hdwe (Twin Spring)
	61706	1 Froc Injector w/Hdwe
5	61718	3/4 Froc Injector w/Mud Clip
	61719	3/4 Froc Inj w/Hdwe (Twin <i>Defective</i> Spring)
	61720	3/4 Froc Injector w/Hdwe <i>Defective</i>
6	61928	7/16NCx 2-1/8 Shoulder Bolt
7	88649	1/4x1 Roll Pin
8	88269	7/16 Lock Washer
9	88270	7/16NC Nut

ITEM	PART NO	DESCRIPTION
10	89104	#8-32X3/8 Sheet Metal Screw
11	88599	7/16NCx1-1/2 #3 Plow Bolt
	88849	7/16NCx1-3/4 #3 Plow Bolt (Twin Spring only)
12	88152	7/16 Flat Washer
13	88347	1/2 Flat Washer
14	59891	Dutch Hoe Point W/ Roll Pin
15	56193	3/4IDx1OD White Tubing (400 FT Rolls)
16	61380	1"IDx1-1/4ODx1FT Clear Braid Tubing <i>use 63812 100' Roll</i>
17	61381	1"IDx1-1/2ODx1FT Clear Braid Tubing
18	59890	1" Froc Injector W/O Mud Clip

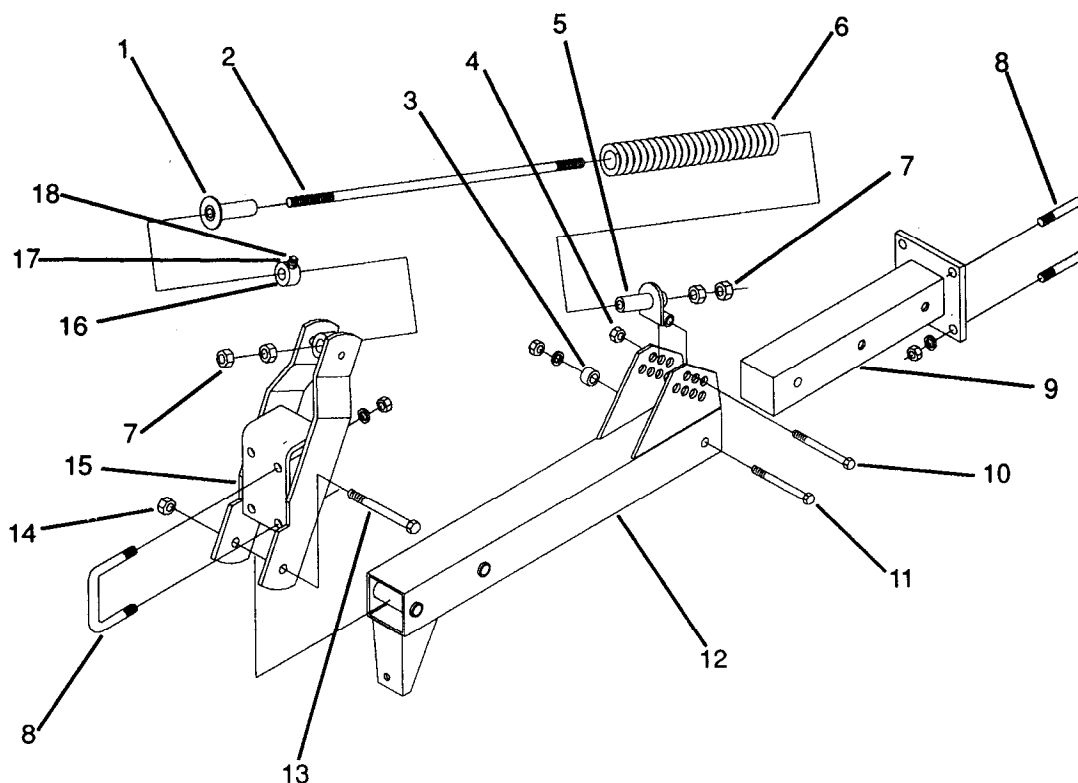
HARROW ASSEMBLY



CI-78742

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
1	60131	3/4ODx.51 IDx4 Tube	12	60666	6 Wheel Front Harrow Tube
2	60152	Harrow Mounting Arm		60667	7 Wheel Front Harrow Tube
3	88574	1/2NCx5-1/2 GR5 Bolt		60668	8 Wheel Front Harrow Tube
4	60703	Clamp Casting		60669	9 Wheel Front Harrow Tube
5	60144	Flat	13	49931	Harrow Tube Clip
6	33659	Bushing 1/2IDx3/4ODx3/8	14	60659	6 Wheel Rear Harrow Tube
7	88347	1/2 Flat Washer		60660	7 Wheel Rear Harrow Tube
8	88157	1/2NCx1-3/4 GR5 Bolt		60661	8 Wheel Rear Harrow Tube
9	23039	Hair Pin Cotter 2.69"		60662	9 Wheel Rear Harrow Tube
10	60678	37-7/8" Tube Holder (6Whl Pac)	15	51265	Adjustment Pin
	60147	33" Tube Holder (7Whl Pac)	16	88541	1/2NCx3 GR5 Bolt
	60679	38-5/16" Tube Holder (8Whl Pac)	17	60702	Spring 8" Long (Black)
	60680	47" Tube Holder (9Whl Pac)	18	23173	Adjustment Bolt
11	32630	1/2NCx3-1/8x4-1/2 U-Bolt	19	88270	7/16NC Nut
			20	61929	7IN Harrow Spring (Black)
			21	53218	Left 12" Harrow Spring (Black)

PACKER ARM ASSEMBLY

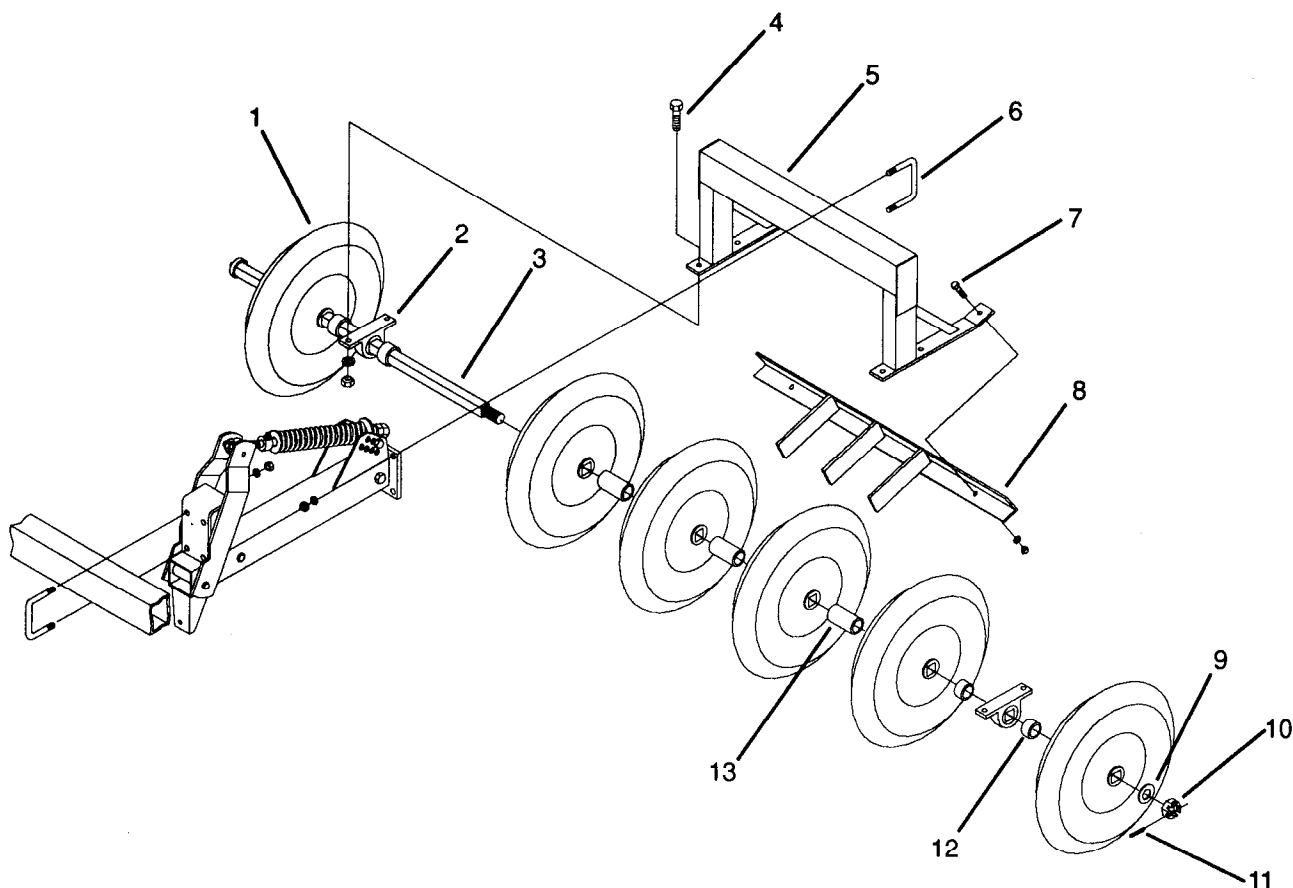


CI-78888

ITEM	PART NO	DESCRIPTION
	60701	Packer Arm Assembly (Includes Items 1-18)
1	60634	Spring Cap
2	61606	3/4NCx24 Rod
3	17279	Sprocket Spacer
4	88369	5/8NC Lock Nut
5	60633	Spring Bracket
6	61607	Compression Spring
7	88110	3/4NC Nut
8	88501	5/8NCx4x4-1/4 U-Bolt
9	60136	Arm

ITEM	PART NO	DESCRIPTION
10	88298	5/8NCx4 GR5 Bolt
11	88381	5/8NCx4-1/2 GR5 Bolt
12	60140	Mounting Arm
13	88579	3/4NCx5-1/2 GR5 Bolt
14	88356	3/4NC Lock Nut
15	60137	Mounting Bracket
16	60635	Collar
17	88104	1/2NC Nut
18	88981	1/2NCx1-1/4 SQ HD Cup PT Set Screw

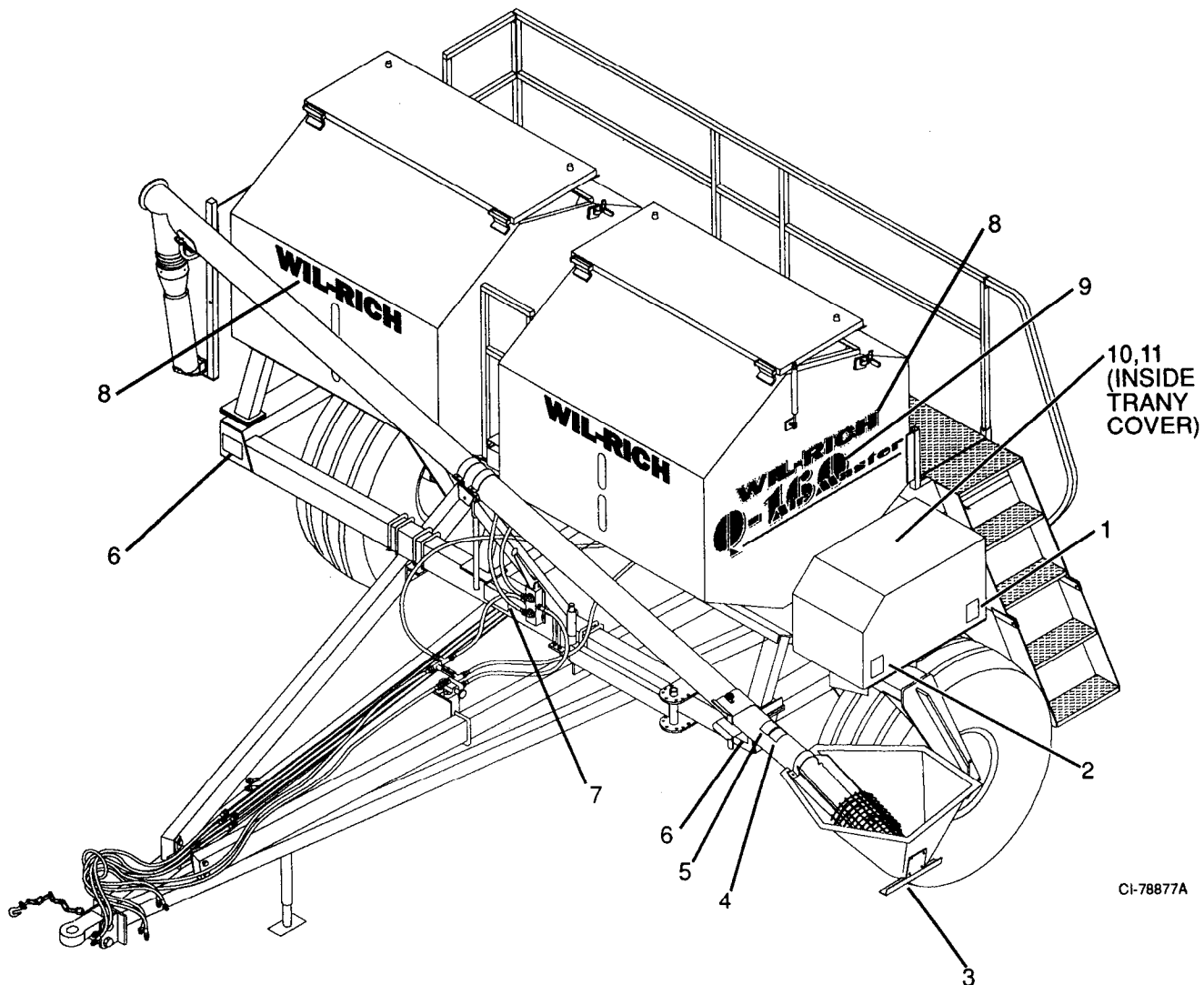
PACKER WHEEL ASSEMBLY



CI-78889

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
	60422	6 Rubber Wheel Packer Assy	5	60564	6 Wheel Packer Frame
	60423	6 Steel Wheel Packer Assy (Shown)		60100	7 Wheel Packer Frame
	60428	7 Rubber Wheel Packer Assy		60565	8 Wheel Packer Frame
	60429	7 Steel Wheel Packer Assy		60566	9 Wheel Packer Frame
	60434	8 Rubber Wheel Packer Assy	6	88501	5/8NCx4x4-1/4 U-Bolt
	60435	8 Steel Wheel Packer Assy	7	88838	5/8NCx1-3/4 GR5 Bolt
	60440	9 Rubber Wheel Packer Assy	8	60139	6 Wheel Rock Rake
	60441	9 Steel Wheel Packer Assy		60143	7 Wheel Rock Rake
		(Includes Items 1-13)		60415	8 Wheel Rock Rake
1	60700	Rubber Packer Wheel Assy		60416	9 Wheel Rock Rake
	60041	3x20 Steel V-Packer Wheel	9	88602	1-1/4 Flat Washer
	* 61269	Poly-Rubber Wheel Assembly <i>1" Round Hole</i>	10	88350	1-1/4NC Slotted Nut
2	60056	1-1/4SQ 2 Hole Pillow Block Bearing	11	88101	1/4Dia x 2-1/2 Cotter Pin
3	60571	6 Packer Wheel Tie Bar	12	60406	2-3/8ODx1.81IDx1.06 Spacer <i>235248</i>
	60108	7 Packer Wheel Tie Bar	13	60407	2-3/8ODx1.81IDx3.56 Spacer <i>235249</i>
	60572	8 Packer Wheel Tie Bar		<i>61250</i>	<i>Bushing</i>
	60573	9 Packer Wheel Tie Bar			
4	88409	5/8NCx2-1/2 GR5 Bolt			

AIR MASTER DECALS



CI-78877A

ITEM	PART NO	DESCRIPTION
1	60708	Chain Warning Decal
2	60713	Caution Decal
3	22372	Amber Reflector
4	60710	Electrocution Danger Decal
5	60709	Auger Danger Decal
6	60712	Read Warning Decal
7	60711	Oil Warning Decal
8	59949	4-7/8" Wil-Rich Decal
9	59951	Q-110 Air Master Decal
	59950	Q-160 Air Master Decal
10	61847	Rate Chart Decal
11	61848	Transmission Configure Decal

NOTE: Decals for the Quad-5 can be found in the Quad-5 parts book.

AIRMASTER CLUTCH ASSEMBLY INSTRUCTIONS

The AirMaster clutch kit provides a means to disconnect the drive to the feeder wheels. This kit will allow placement of a disconnect clutch between the main transmission and the tank or between the two feed tanks to disconnect the right side tanks only. Kits can be installed at both positions on both the front or rear feeder drive.

Transmission Drive Clutch Assembly

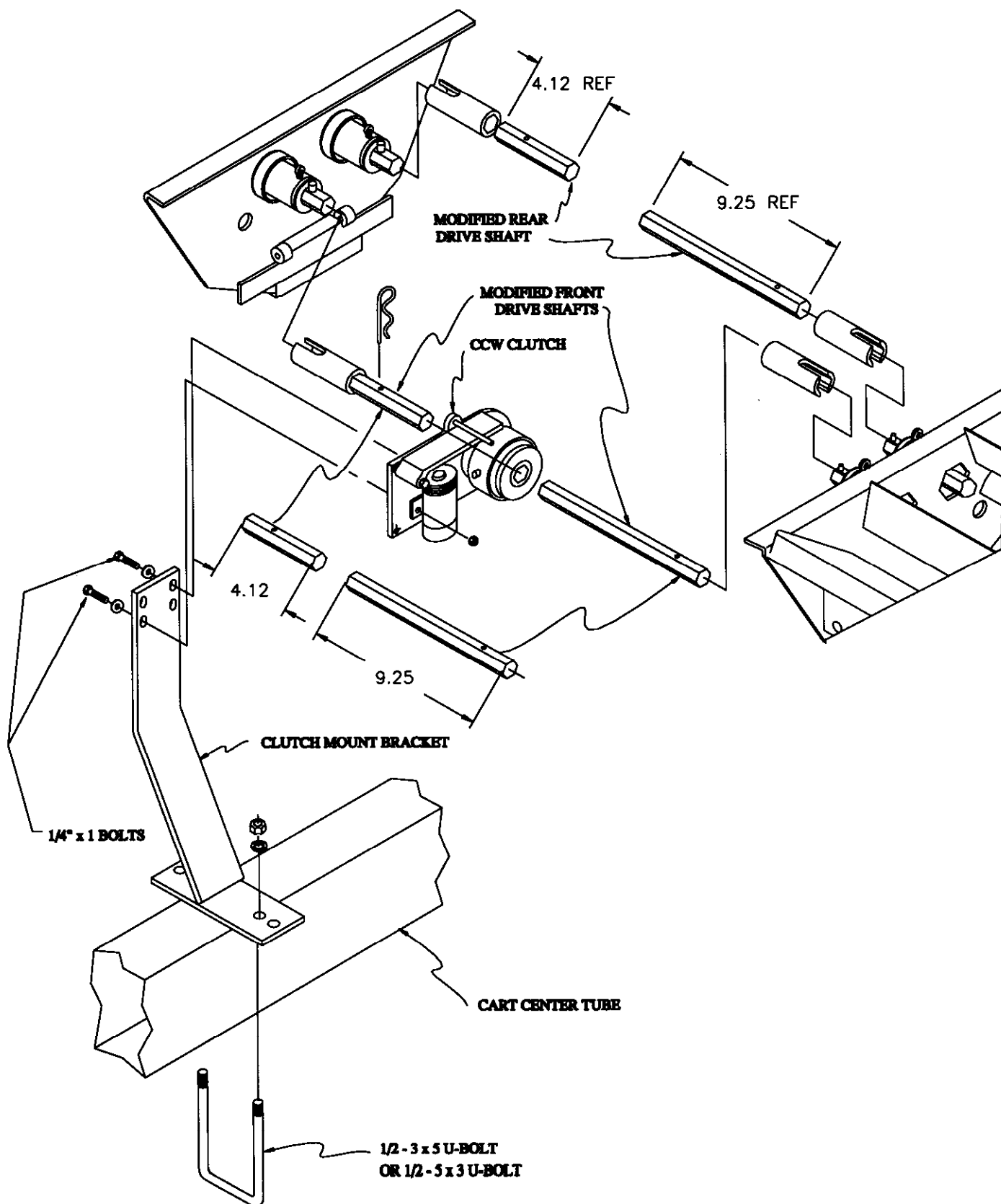
To install the drive clutch between the transmission and first tank requires that the drive shafts be removed and modified. Refer to Pg. 2 of the instructions for modification information. As shown on Pg. 2 the front drive shaft will need to be removed and cut to the dimensions shown to properly mount the clutch. The clutch is supported by the shaft bearings of the transmission and floats on the shaft. To prevent the clutch from rotating the clutch chain must be attached to some frame member. The front drive shaft utilizes a counter clockwise (CCW) rotation clutch. Please note - the illustration shows mounting of the clutch on the front drive shaft only. The rear transmission drive shaft needs to be modified as shown and requires a clockwise (CW) rotation clutch. The modifications to the drive shafts must be made as shown to allow proper placement when both clutches are utilized. Proper assembly will allow the drive connections to be utilized to disconnect the drive when removing the feeder assemblies.

Center Drive Clutch Assembly

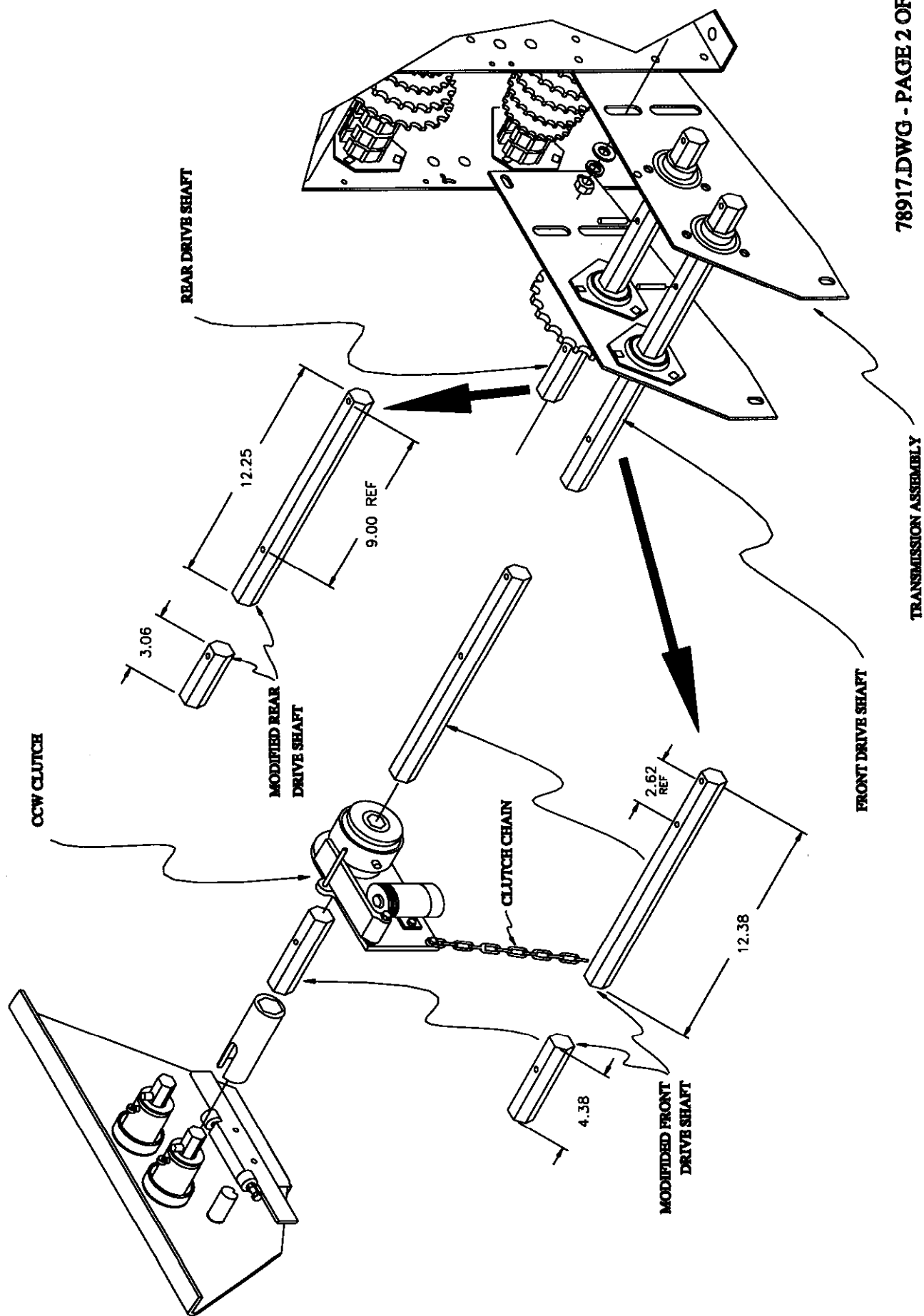
To install a drive clutch between the tanks requires that the drive shaft be modified as shown on Pg. 3 of the instructions. Mount the clutch mount bracket to the center tube of the AirMaster cart as shown. Remove the short 1/4" bolts that secure the clutch solenoid to the clutch housing and replace with the 1/4" x 1" long bolts provided. Secure the complete clutch to the clutch mounting bracket and align with the modified drive shaft. Note - the illustration shows the mounting of a counter clockwise (CCW) rotation clutch to the front drive shaft. To mount a clutch on the rear drive shaft requires a clockwise (CW) rotation clutch with a the clutch mounting bracket mounted to the same side of the cart center tube. The illustration shows the two piece drive shaft assembled to place the rear clutch on the same side of the center tube. Once everything is properly aligned tighten all hardware.

The kit (62426) contains the clutch mounting bracket, hardware and assembly instructions. A kit is required for each drive line. The clutches are not supplied by WIL-RICH but can be purchased from Tru-Count, Inc at 1024 East 8th Street North, Newton, IA, 50208 (515-791-7020). Specify a counter clockwise (CCW) for the front drive shaft and a (CW) for the rear drive shaft. Additional instructions on operation and connection of the clutches is provided by Tru-Count.

CENTER TANK DRIVE CLUTCH ASSEMBLY

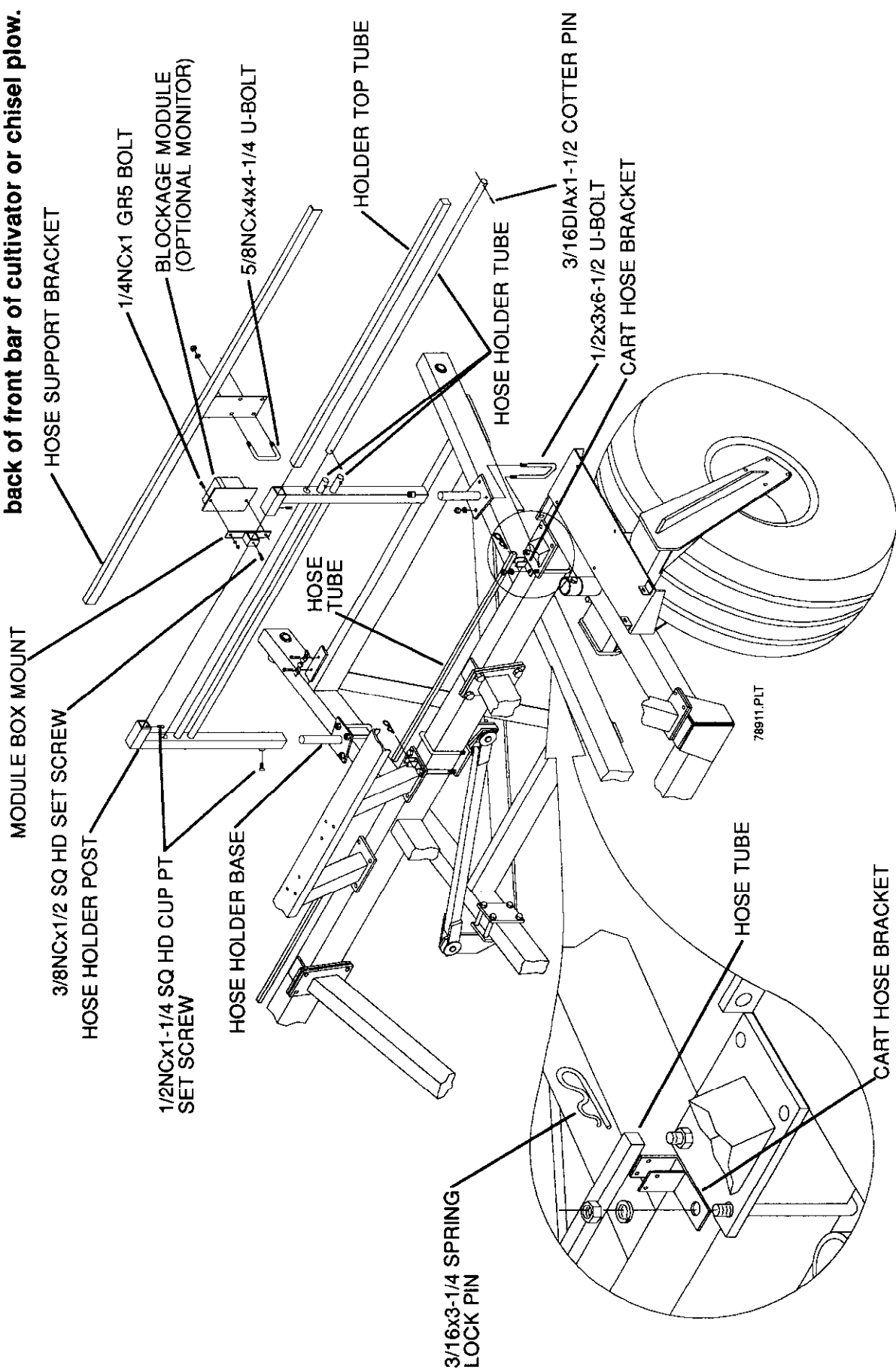


TRANSMISSION DRIVE CLUTCH ASSEMBLY



HOSE HOLDER ASSEMBLY INSTRUCTION

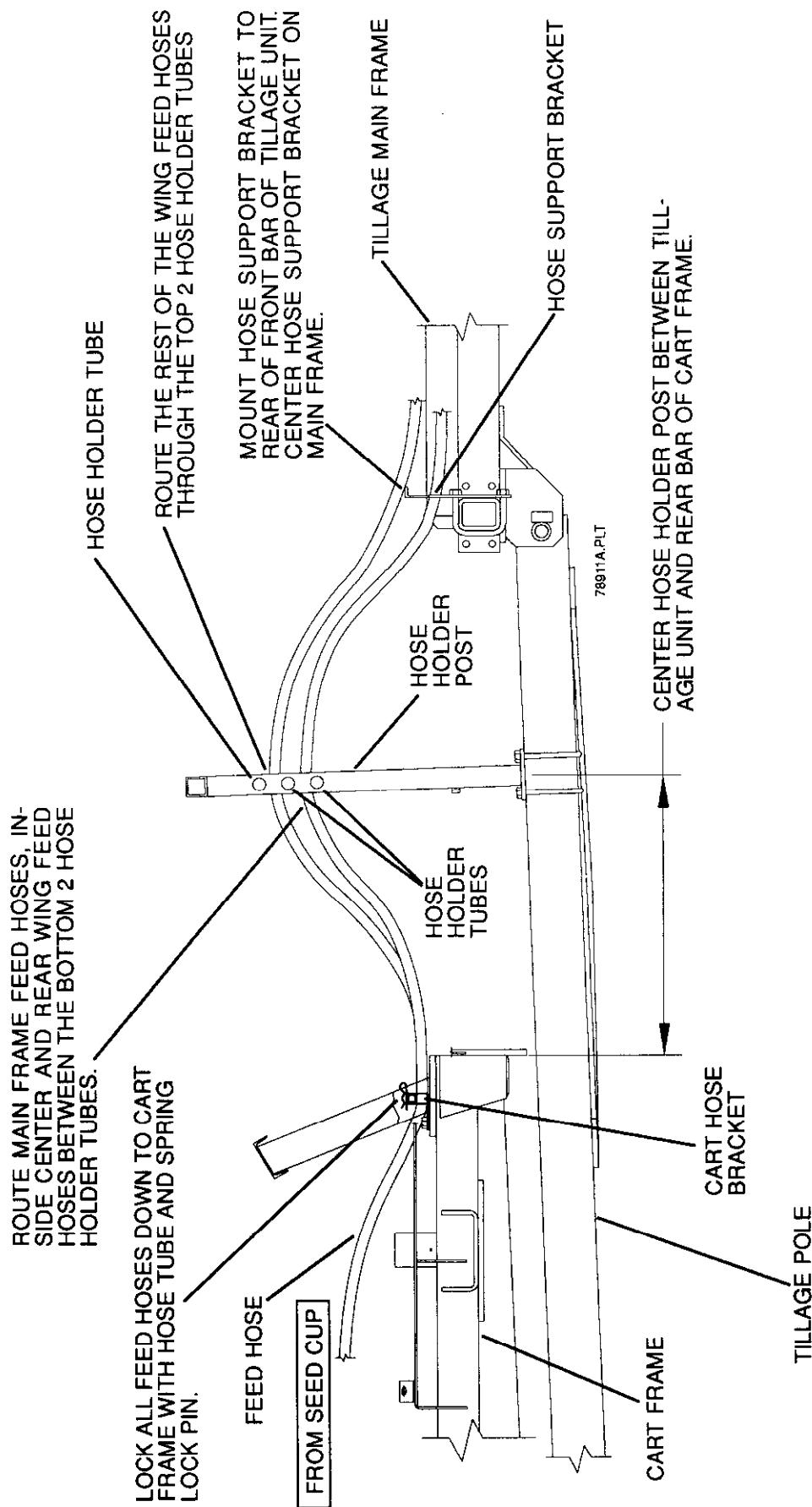
Note: Hose Support Bracket mounts to the back of front bar of cultivator or chisel plow.



HOSE HOLDER ASSEMBLY INSTRUCTION

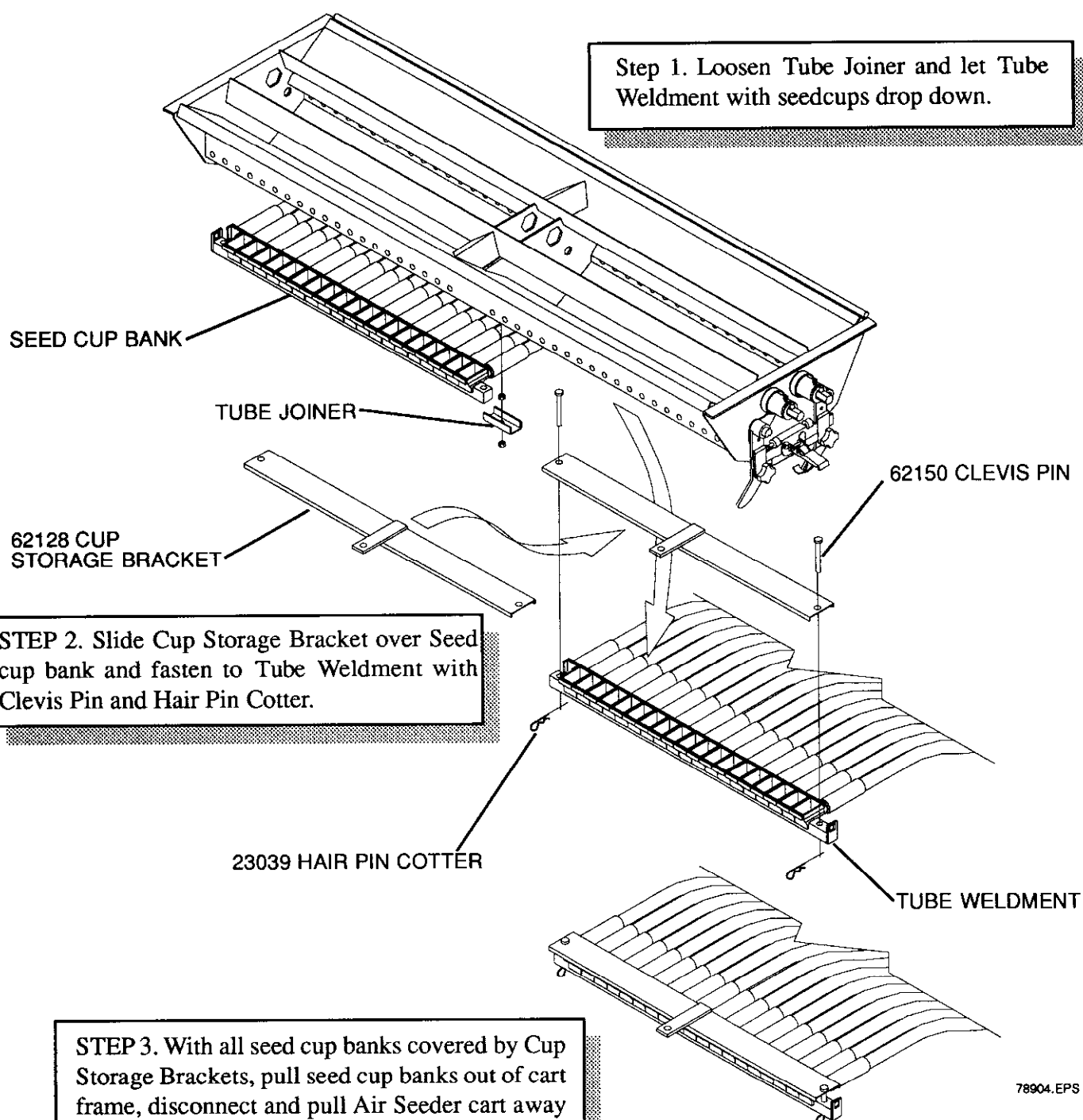
Note: Before wings are folded for transport, route feed hoses as shown below to decrease hose stress.

Note: When folding wings, make sure feed hoses do not kink or get pinched.



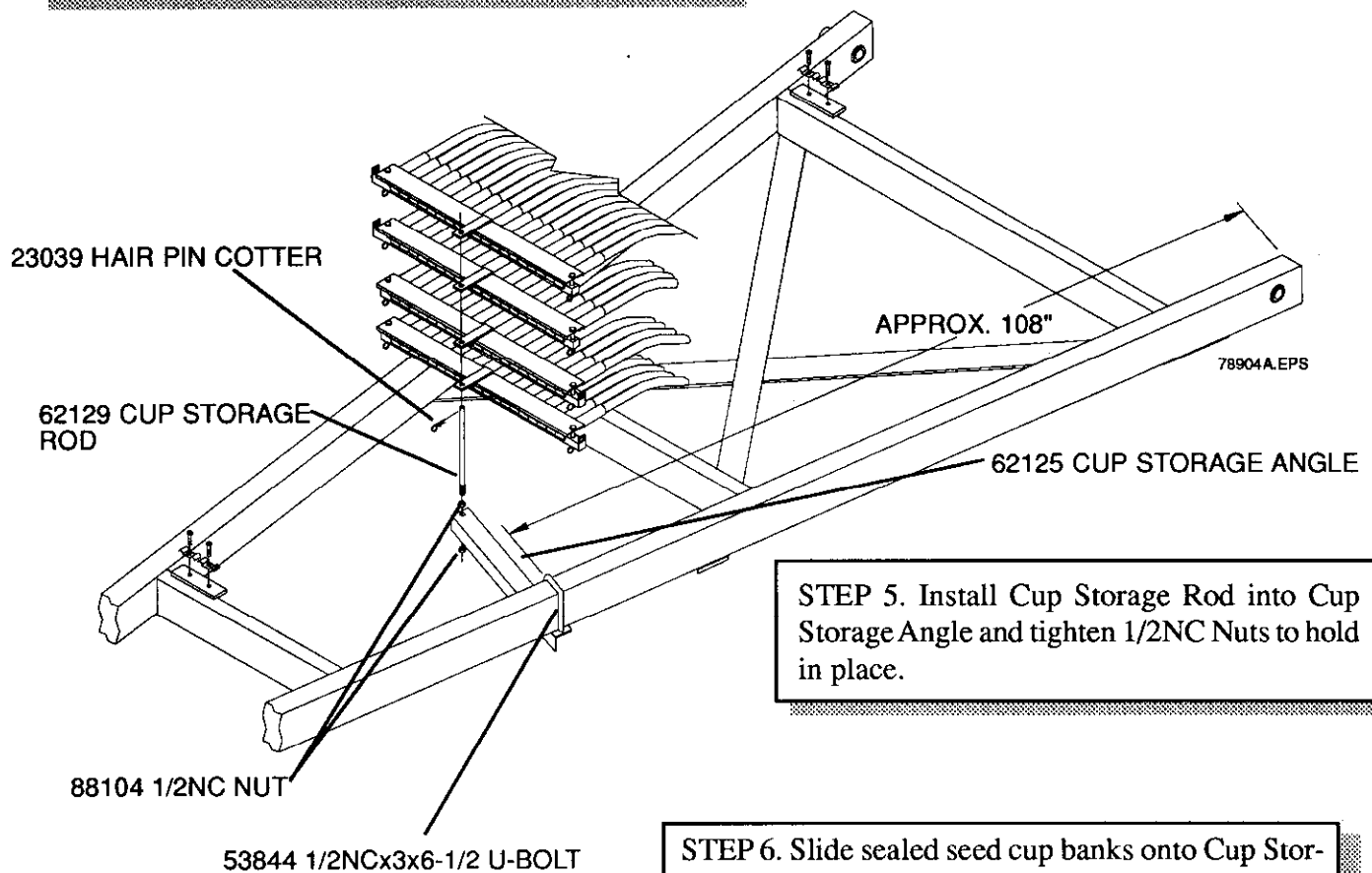
CUP STORAGE ASSEMBLY INSTRUCTION

Step 1. Loosen Tube Joiner and let Tube Weldment with seedcups drop down.



78904.EPS

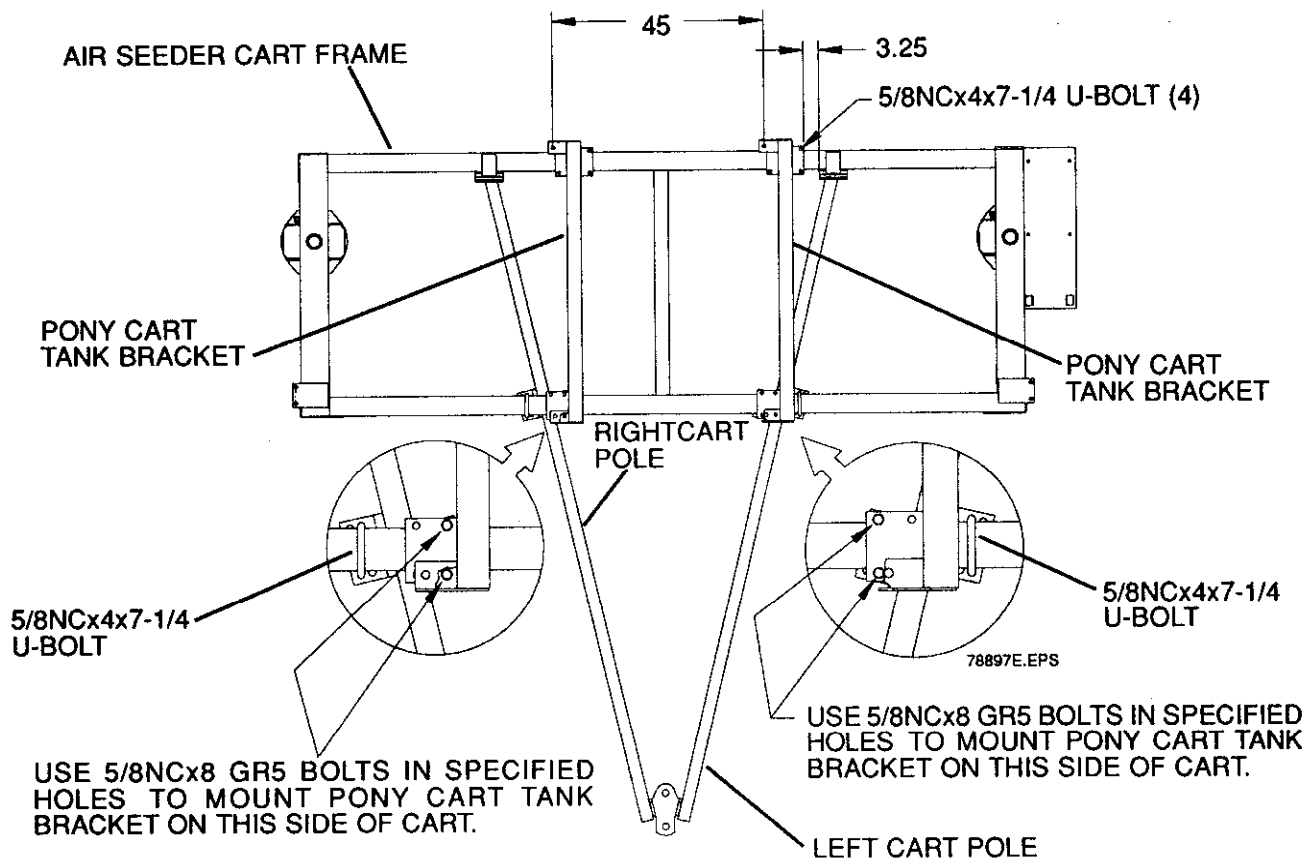
STEP 4. Assemble Cup Storage Angle to main frame pole with 1/2NCx3X6-1/2 U-Bolt in approximate location shown.



PONY CART TANK ASSEMBLY INSTRUCTION

Note: Install left and right cart poles and pony cart tank brackets onto cart frame in the specified locations.

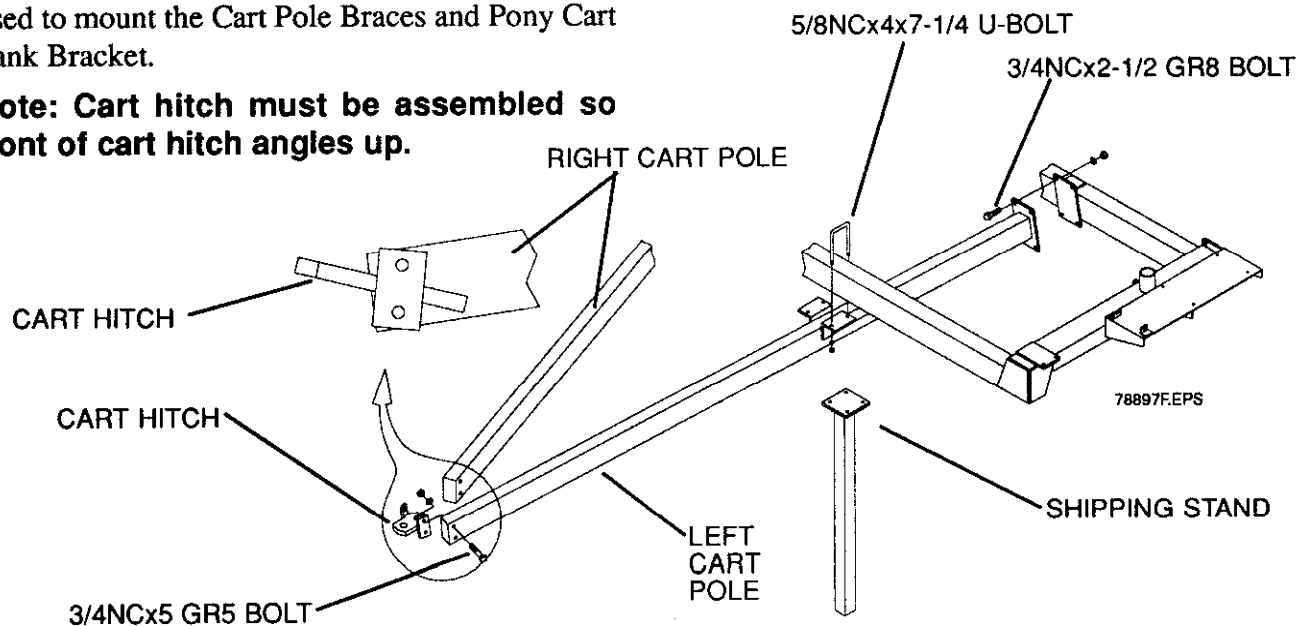
Note: Do not tighten hardware until all parts are assembled.



CART POLE ASSEMBLY

Shipping stands (3) are not required for operation. The hardware used to mount the shipping stands is used to mount the Cart Pole Braces and Pony Cart Tank Bracket.

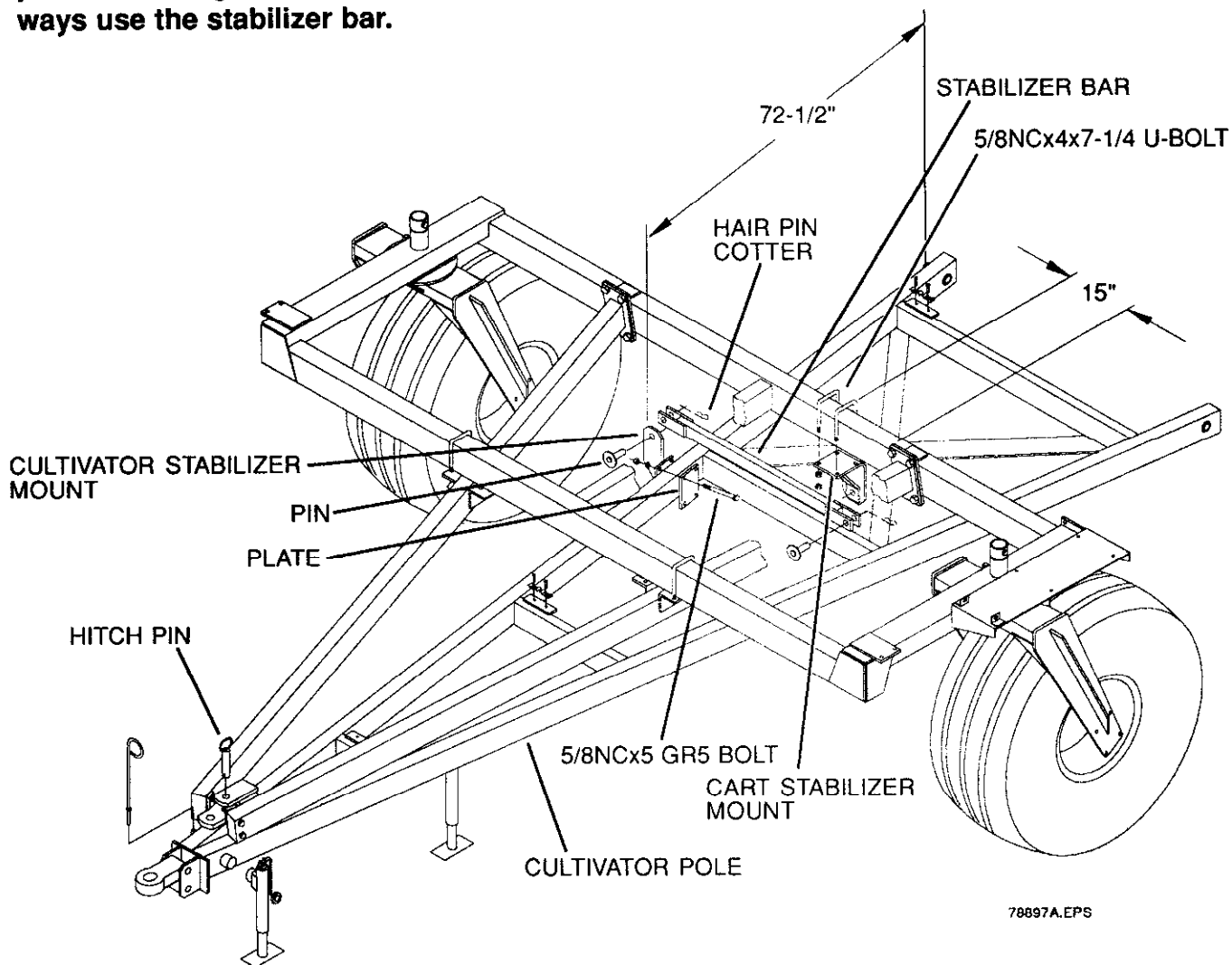
Note: Cart hitch must be assembled so front of cart hitch angles up.



PONY CART TANK ASSEMBLY INSTRUCTION

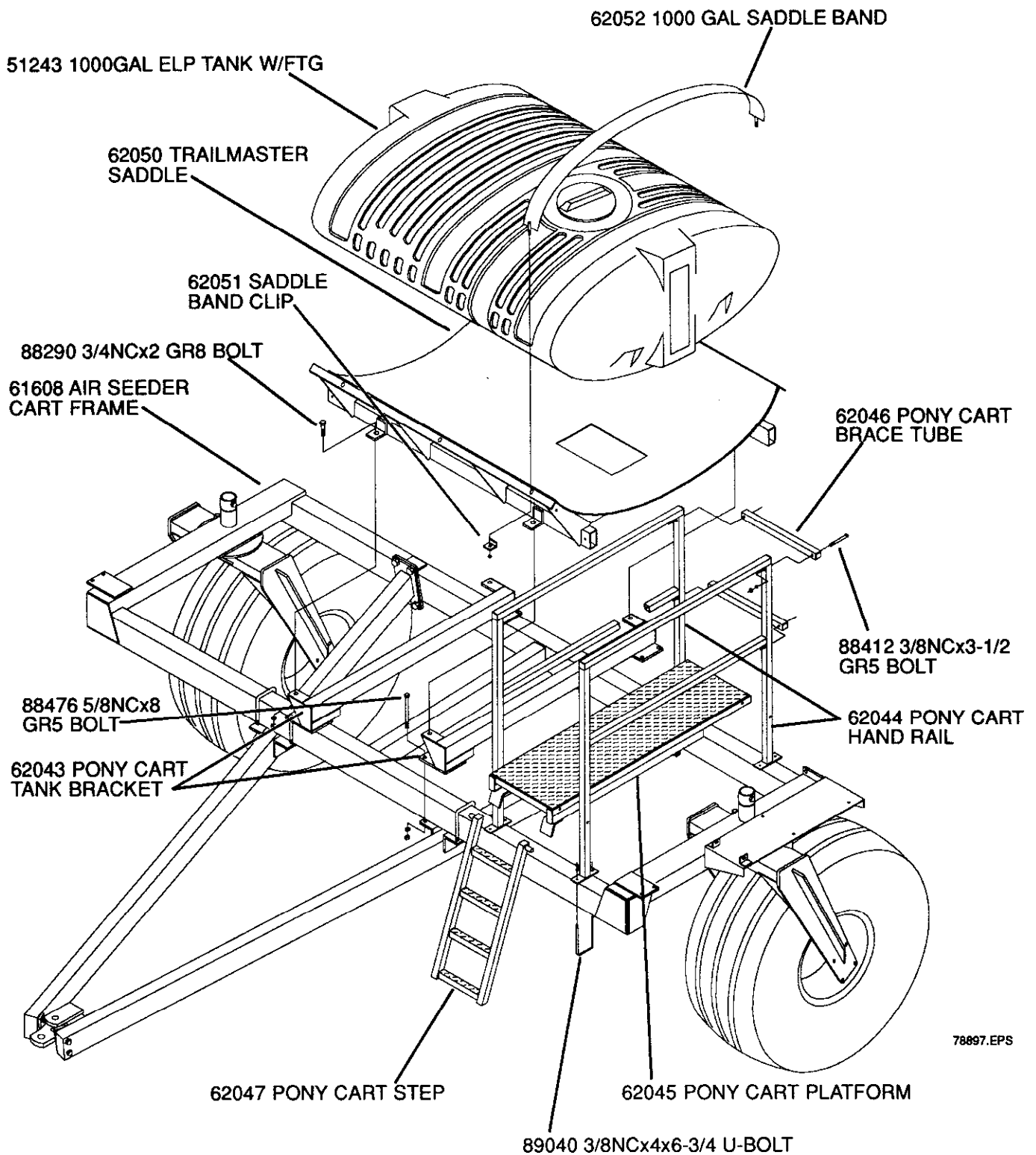
STABILIZER ASSEMBLY

Note: The Stabilizer Bar, is necessary to prevent damage to both implements. Always use the stabilizer bar.



PONY CART TANK ASSEMBLY INSTRUCTION

TANK & CATWALK ASSEMBLY



PONY CART TANK OPERATING INSTRUCTION

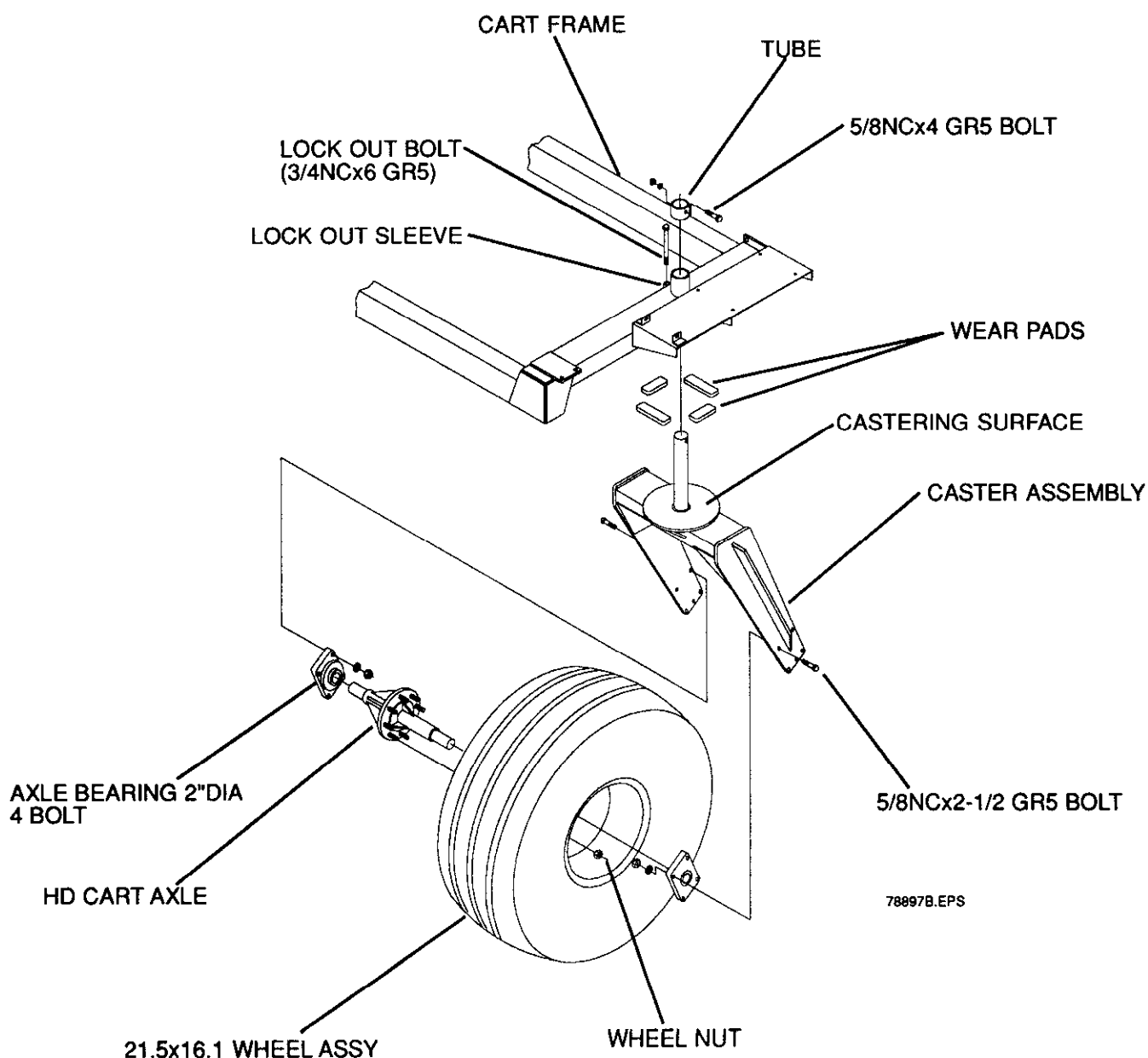
The axle casting surface rotates on free floating UHMV wear pads located under the cart frame. In time these pads will wear. If wear pads become worn to the point of allowing metal to metal contact between the casting surface and the underside of the cart frame they must be replaced. Check regularly.

Note: Do not allow metal to metal contact of the casting surface and cart frame.

HOOKING & UNHOOKING CART ASSEMBLY

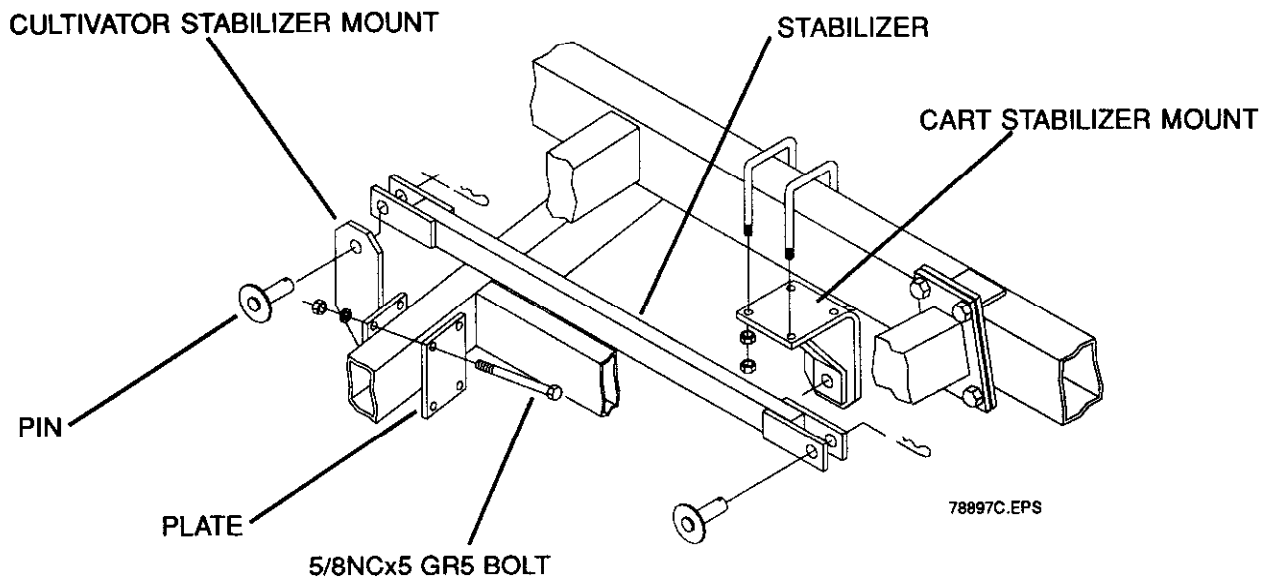
When attaching/removing the Pony Cart from the cultivator, important precautions must be taken:

1. *Tank must be empty.*
2. Caster wheels must be rotated to the rear and locked with 3/4NCx6 GR5 bolt (see figure below).
3. The complete unit must be on a level surface. Lock the tillage unit into the transport position and remove all hydraulic connections to the tractor.



PONY CART TANK OPERATING INSTRUCTION

UNHOOKING CART ASSEMBLY



4. Attach/detach stabilizer arm from the cultivator stabilizer mount and the cart stabilizer mount.

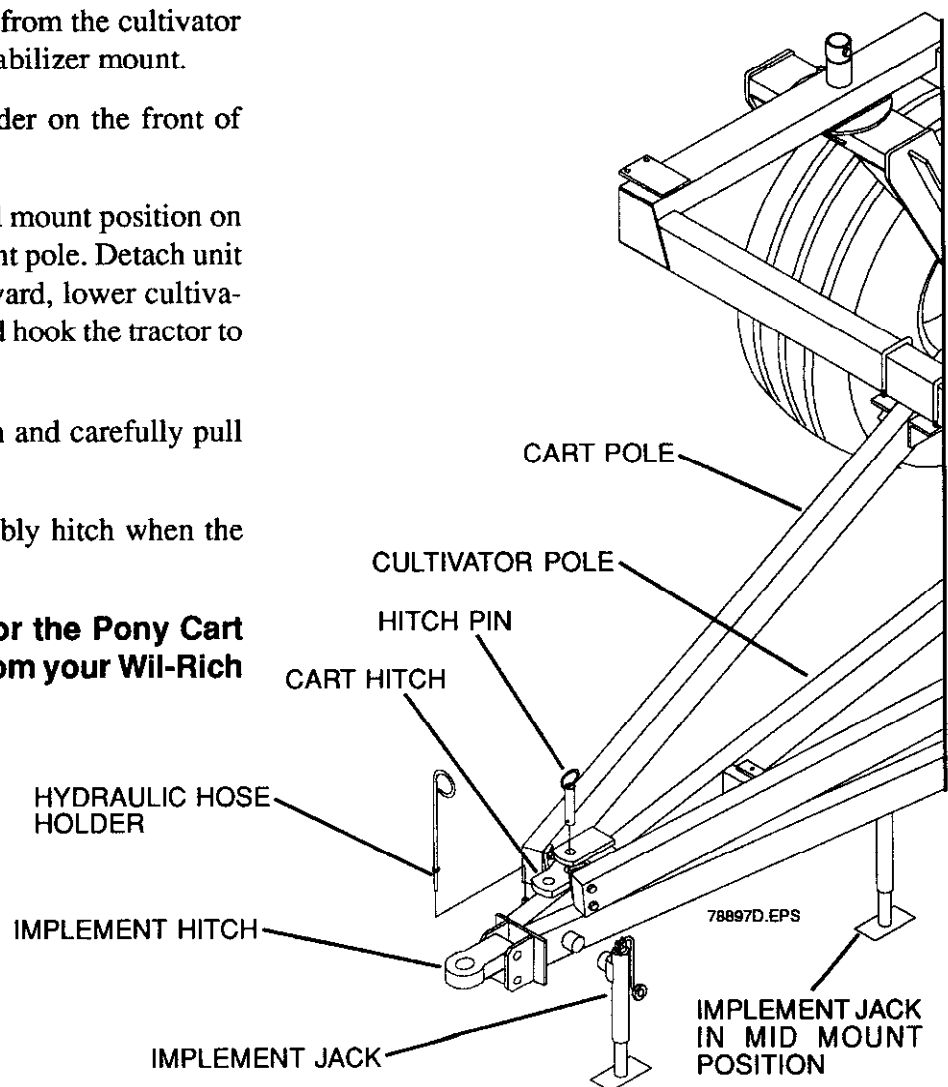
5. Remove hydraulic hose holder on the front of the tillage implement pole.

6. Move implement jack to mid mount position on the inside of the main implement pole. Detach unit from tractor, move tractor forward, lower cultivator and main cart pole down and hook the tractor to the hitch of the Pony Cart.

7. Remove Pony Cart hitch pin and carefully pull cart forward.

8. Properly support cart assembly hitch when the cart assembly is being stored.

Note: An additional jack for the Pony Cart hitch may be purchased from your Wil-Rich dealer.



FEEDER BLOCKOFF INSTALLATION

STEP 1. Remove protective layer on double face tape of appropriate Blockoff assembly (Single Blockoff shown).

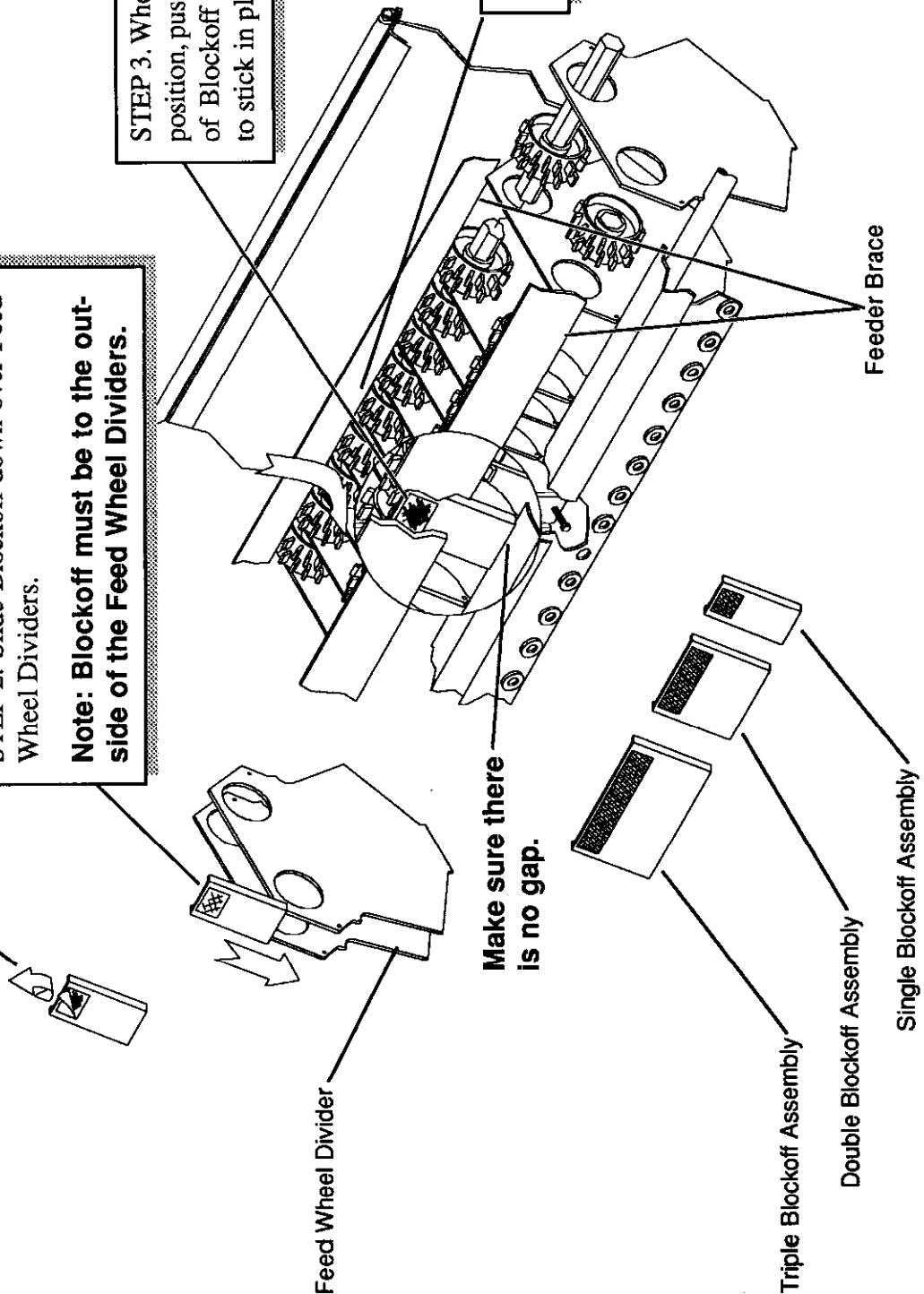
Note: Before applying tape to Feeder Brace make sure all surfaces are clean.

STEP 2. Slide Blockoff down over Feed Wheel Dividers.

Note: Blockoff must be to the outside of the Feed Wheel Dividers.

STEP 3. When Blockoff is slid into position, push double face tape area of Blockoff against Feeder Brace to stick in place.

STEP 4. Repeat steps 1-3 for opposite side



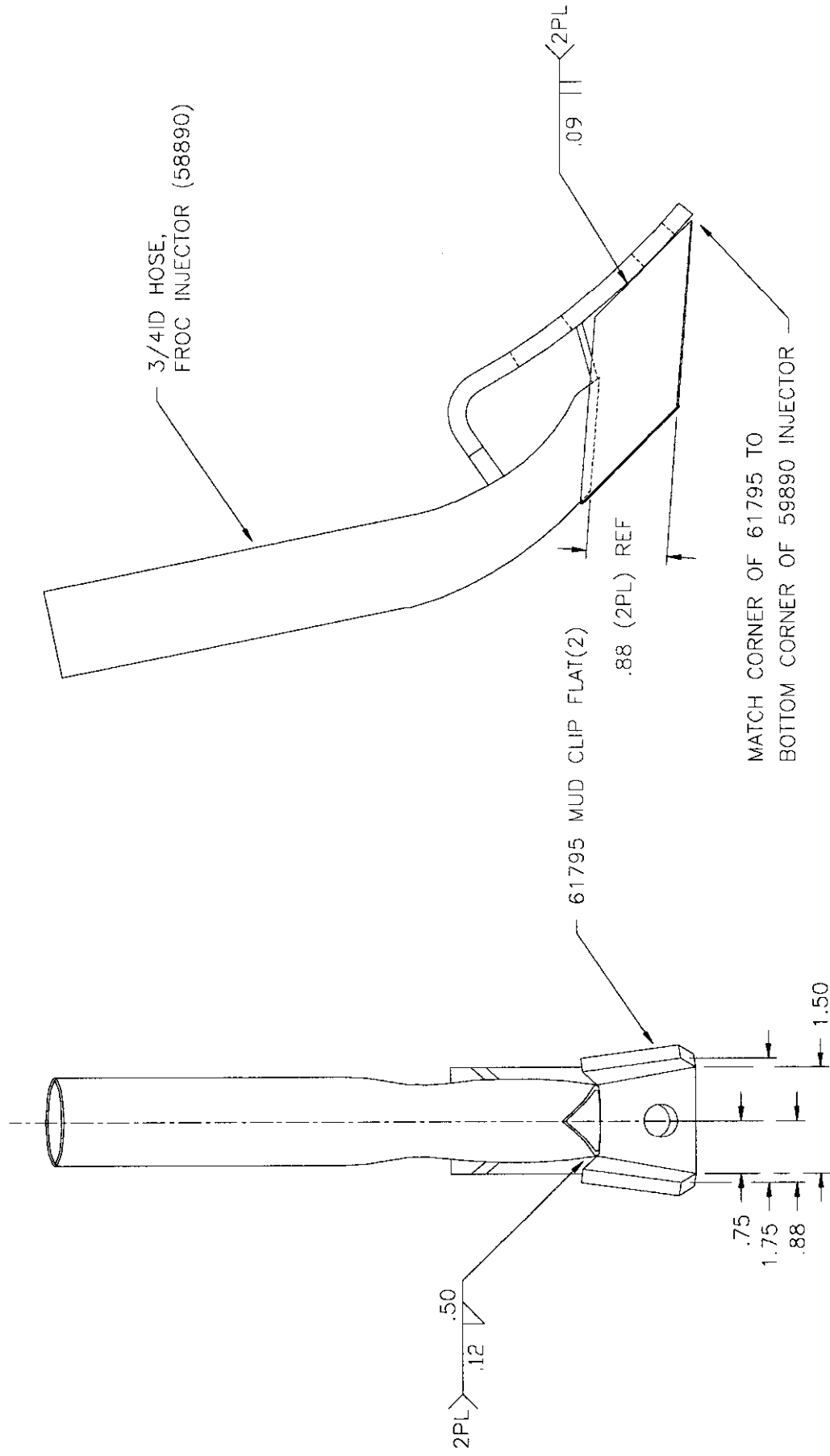
AIRMASTER CUP BLOCKOFF PLACEMENT

AIRMASTER UNIT SIZE	LEFT TANK		RIGHT TANK	
	LEFT SECTION	RIGHT SECTION	LEFT SECTION	RIGHT SECTION
46FT	1			
1 CUP BLOCKED				
32 - 41FT	3	2	2	2
9 CUPS BLOCKED				
37FT	2	3	2	2
17 CUPS BLOCKED				
32 - 33FT	2	3	3	3
23 CUPS BLOCKED				
30FT	3	1	3	1
29 CUPS BLOCKED				
27FT	3	3	3	2
33 CUPS BLOCKED				

PLACE THE NOTED 1, 2, OR 3 CUP BLOCKOFFS IN THE POSITIONS SHOWN. REFER TO THE ASSEMBLY INSTRUCTIONS FOR INFORMATION ON THE ASSEMBLY OF THESE BLOCKOFFS. SPACE THE BLOCKOFFS EVENLY IN THE FEEDER, MAINTAINING AT LEAST 2 OPEN CUPS NEXT TO THE SIDE WALLS TO REDUCE BRIDGING OF MATERIAL. MATERIAL CAN SET ON TOP OF THESE BLOCKOFFS, MAKE SURE TO CLEAN THE MATERIAL OUT COMPLETELY WHEN DUMPING THE TANK.

1 1 CUP - 61674
2 2 CUP - 61675
3 3 CUP - 61676

FROC INJECTOR MUD CLIP REWORK INSTRUCTIONS



3/4" ID HOSE TO 1" ID HOSE DUTCH HOE CONVERSION INSTRUCTION

The Dutch Hoe Adapter kit converts the 3/4" Dutch Hoe Openers from 3/4" ID hose to a 1" ID hose.

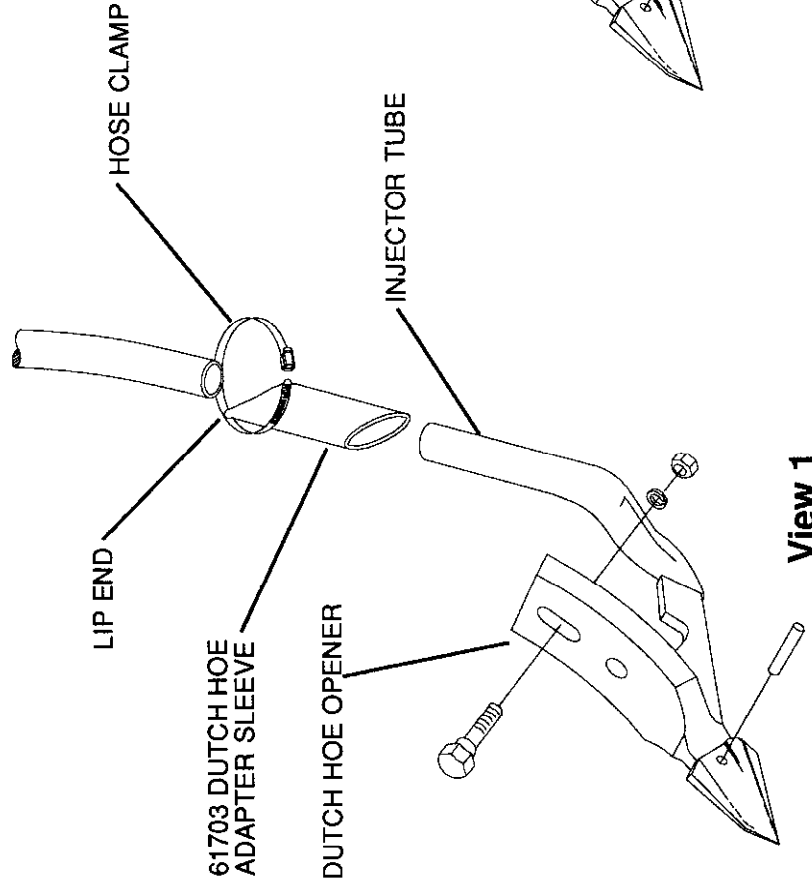
Slide the Dutch Hoe Adapter Sleeve over the Dutch Hoe injector tube as shown and tack weld in the areas shown in view 2.

Note: The Adapter Sleeve, lipped end, must go to the hose side (DO NOT WELD ON THIS SURFACE).

With Adapter sleeve welded in place.

Install the 1" ID hose into Adapter Sleeve, pushing hose in the Sleeve until it bottoms out on injector tube.

Wrap hose clamp around hose and Adapter Sleeve placing the hose clamp just under lip of Adapter Sleeve. Tighten hose clamp to where the hose slightly deforms (**DO NOT OVER TIGHTEN AND COLLAPSE HOSE**).



CI-78879