

REAR FOLD PLANTER

**PARTS
MANUAL**

M0104

1982/1983

WARRANTY

The KINZE® Limited Warranty for your new machine is stated on the back of the retail purchaser's copy of the Warranty And Delivery Report form.

Warranty, within the warranty period, is provided as part of KINZE's support program for registered KINZE® products which have been operated and maintained as described in this manual. Evidence of equipment abuse or modification beyond original factory specifications will void the warranty. Normal maintenance, service and repair is not covered by KINZE® warranty.

To register your KINZE® product for warranty, a Warranty And Delivery Report form must be completed by the KINZE® Dealer and signed by the retail purchaser, with copies to the Dealer, to the retail purchaser and to KINZE Manufacturing, Inc. Registration must be completed and sent to KINZE Manufacturing, Inc. within 30 days of delivery of the KINZE® product to the retail purchaser. KINZE Manufacturing, Inc. reserves the right to refuse warranty on serial numbered products which have not been properly registered.

Additional copies of the Limited Warranty can be obtained through your KINZE® Dealer.

If service or replacement of failed parts which are covered by the Limited Warranty are required, it is the user's responsibility to deliver the machine along with the retail purchaser's copy of the Warranty And Delivery Report to the KINZE® Dealer for service. KINZE® warranty does not include cost of travel time, mileage, hauling or labor. Any prior arrangement made between the Dealer and the retail purchaser in which the Dealer agrees to absorb all or part of this expense should be considered a courtesy to the retail purchaser.

KINZE® warranty does not include cost of travel time, mileage, hauling or labor.

TO THE OWNER

We at Kinze Manufacturing wish to thank you for your patronage and appreciate your confidence in Kinze farm machinery. Your Kinze Planter has been carefully designed and sturdily built to provide years of dependable operation in return for your investment.

This manual has been prepared to aid you in the maintenance of the planter. Refer to it when necessary to maintain the machine in efficient operating condition.

This manual is applicable to:

Rear Fold Planter, Serial Number
F1333 and on

Record the model number and serial number of
your planter with date purchased below:

Date Purchased _____

Serial Number _____

Model Number _____

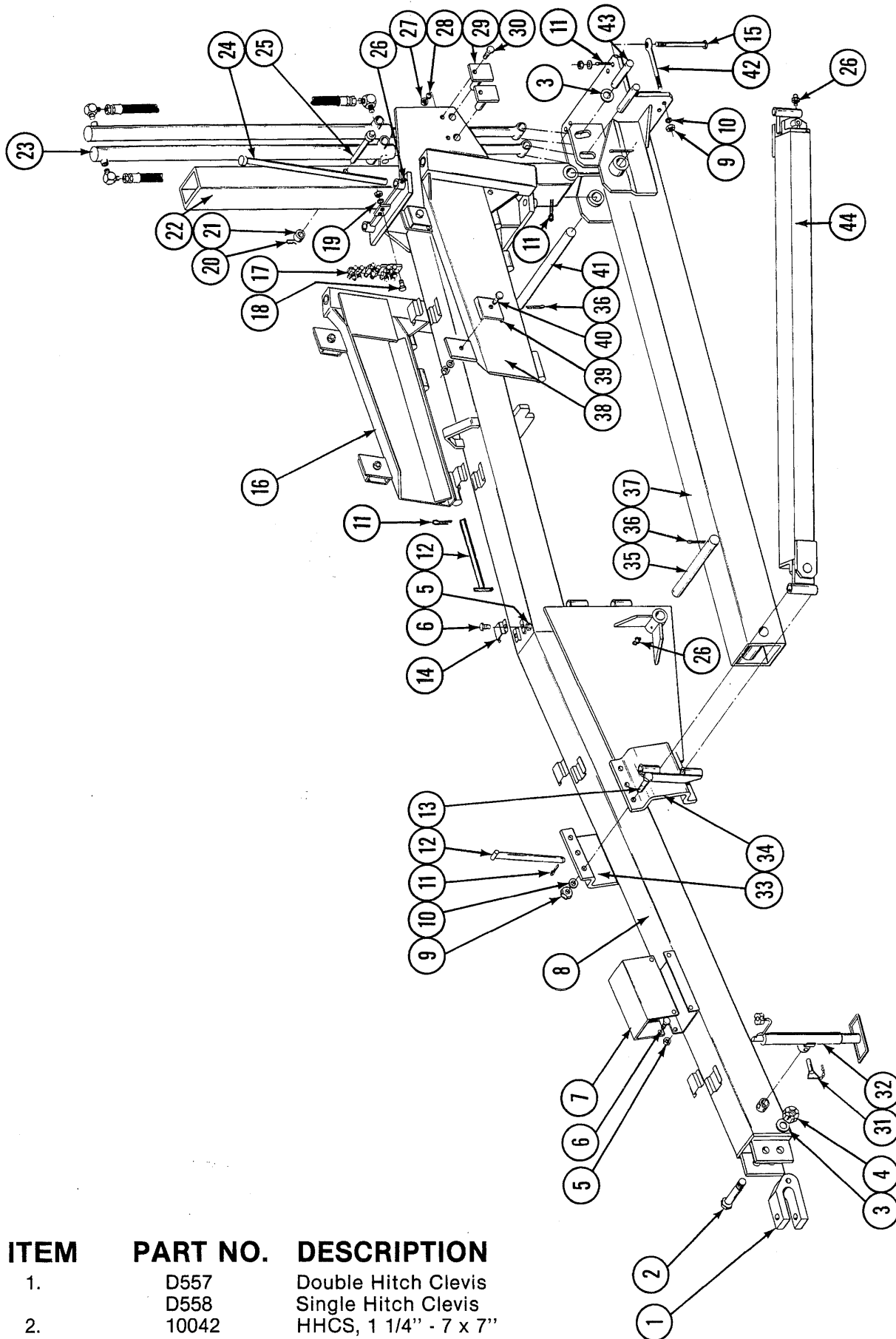
DANGER

THIS PLANTER IS DESIGNED TO BE DRIVEN BY GROUND TIRES ONLY. THE USE OF HYDRAULIC, ELECTRIC OR PTO DRIVES MAY CREATE SERIOUS SAFETY HAZARDS TO YOU AND THE PEOPLE NEAR BY. IF YOU INSTALL SUCH DRIVES YOU MUST FOLLOW ALL APPROPRIATE SAFETY STANDARDS AND PRACTICES TO PROTECT YOU AND OTHERS NEAR THIS PLANTER FROM INJURY.

WARNING

THIS MACHINE HAS BEEN DESIGNED AND BUILT WITH YOUR SAFETY IN MIND. ANY ALTERATION TO THE DESIGN OR CONSTRUCTION MAY CREATE SAFETY HAZARDS. DO NOT MAKE ANY ALTERATIONS OR CHANGES TO THE EQUIPMENT, BUT IF ANY ALTERATIONS OR CHANGES ARE MADE YOU MUST FOLLOW ALL APPROPRIATE SAFETY STANDARDS AND PRACTICES TO PROTECT YOU AND OTHERS NEAR THIS MACHINE FROM INJURY.

HITCH ASSEMBLY

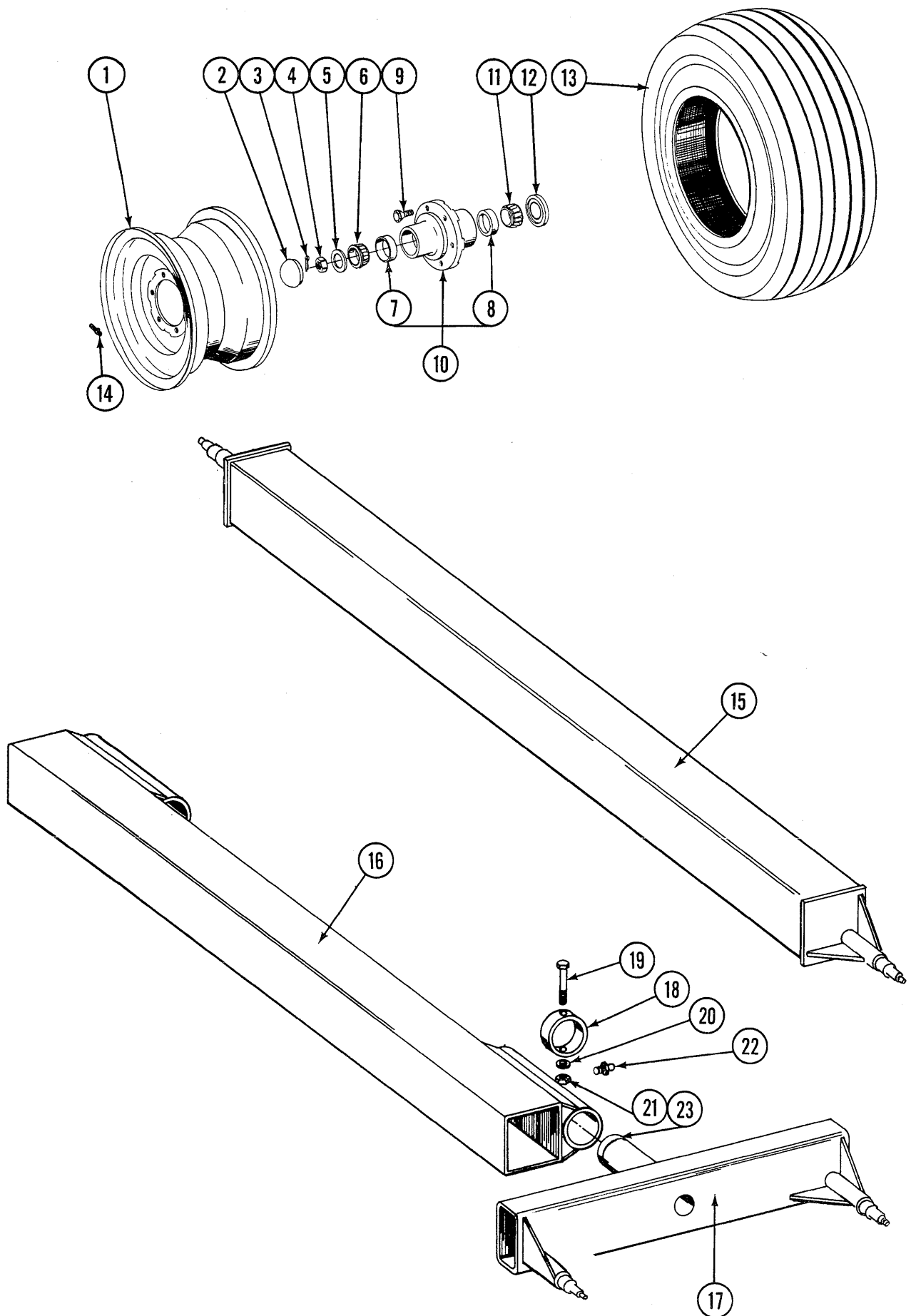


ITEM	PART NO.	DESCRIPTION
1.	D557	Double Hitch Clevis
	D558	Single Hitch Clevis
2.	10042	HHCS, 1 1/4" - 7 x 7"
3.	10139	Washer, Flat, 1 1/4"
4.	10157	Nut, Lock, 1 1/4" - 7

HITCH ASSEMBLY

ITEM	PART NO.	DESCRIPTION
5.	10101	Nut, Hex 3/8" - 16
6.	10002	HHCS, 3/8 - 16 x 3/4"
7.	D793	Valve Lid
8.	A235-1	Hitch Center Section, Upper, 8R Wide w/extended wing, all 12 row models
	A235-2	Hitch Center Section, Upper, All 8 Row Models w/Standard wing
	A235-3	Hitch Center Section, Upper, 16R30 w/std. or extended wing
	A235-4	Hitch Center Section, Upper, 16R38, 18R30, 24R30
9.	10105	Nut, Hex, 3/4" - 10
10.	10231	Washer, Lock, 3/4"
11.	10460	Cotter Pin, 1/4" x 2"
12.	A135	Folding Link Pin, 1 1/4" x 12 3/4"
13.	10028	HHCS, 3/4" - 10 x 3"
14.	D786	Hose Clamp
15.	10030	HHCS, 3/4" - 10 x 9"
16.	A131R	Wing Hinge Assembly, R.H.
17.	A186	Junction Block
18.	10003	HHCS, 3/8" - 16 x 1 1/2"
19.	10229	Washer, Lock, 3/8"
20.	10671	Hair Pin Clip, No. 6
21.	D526-1	Sleeve
22.	A116	Vertical Brace
23.	A230	Cylinder, Trunion, 2 1/2" x 50 3/16", 8R thru 12R Wide
	A231	Cylinder, Trunion, 3" x 50 5/16", 16R30 thru 24 Row
	A276	Cylinder, Trunion, 2 1/2" x 50", 8R thru 12R Wide
24.	A113	Vertical Pivot Pin Weld, 1 1/4" x 27"
25.	A112	Safety Pin
26.	10641	Grease Fitting, 1/8" NPT
27.	10102	Nut, Hex, 1/2" - 13
28.	10228	Washer, Lock, 1/2"
29.	A115	Trunion Cylinder Pin
30.	10017	HHCS, 1/2" - 13 x 1 1/2"
31.	R255	Repair Kit (Chain and Pin)
32.	4100-1	Jack
33.	A148R	Saddle Clamp, R.H., 8R Wide w/extended wing, 12R Models, 16R Models and 24R30
34.	A148L	Saddle Clamp, L.H., 8R Wide w/extended wing, 12R Models, 16R Models and 24R30
35.	D551	Pin, Axle Pivot, 2 1/8" x 16 1/8"
36.	10461	Cotter Pin, 3/8" x 3"
37.	A236	Hitch Center Section, Lower 8R30 thru 16R30
	A1887	Hitch Center Section, Lower 16R Wide thru 24R30
38.	A131L	Wing Hinge Assembly, L.H.
39.	D740	Hose Clamp
40.	10053	HHCS, 1/2" - 13 x 2 1/2"
41.	D536	Stabilizer Brace Pin, 2 1/8" x 13 5/8"
42.	D830	Eye Bolt, 3/4" x 9"
43.	D535	Trunion Cylinder Pin
44.	A147-1	Front Folding Link Assembly, 80 1/2", 8R Models w/std Wing
	A147-2	Front Folding Link Assembly, 113", 12R30 & 18R30 w/std Wing
	A147-3	Front Folding Link Assembly, 139", 16R Wide and 24R30, Braced Models
	A147-4	Front Folding Link Assembly, 114 1/2", Extended Wing Models

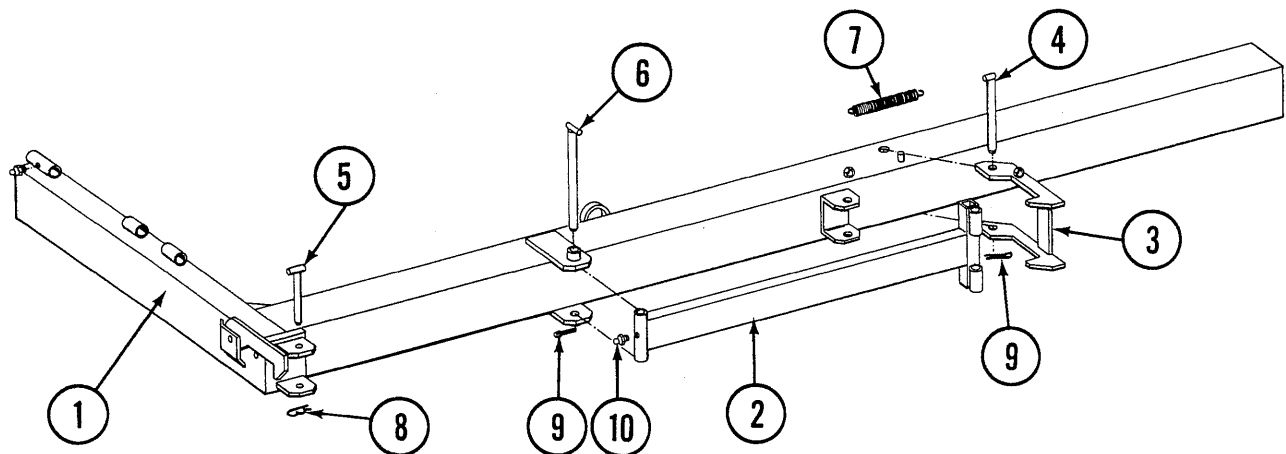
STANDARD / TANDEM AXLE ASSEMBLY



STANDARD/TANDEM AXLE ASSEMBLY

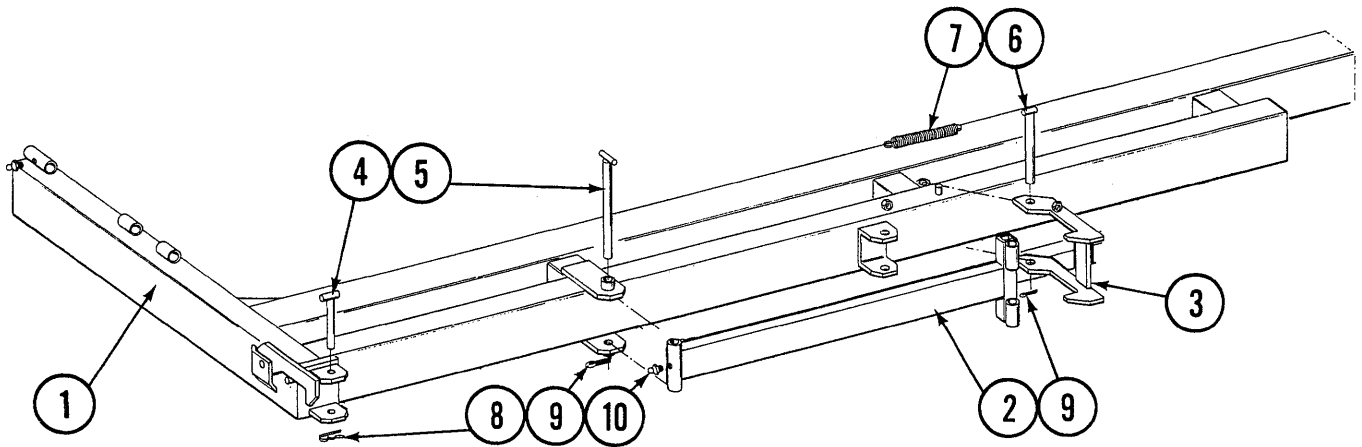
ITEM	PART NO.	DESCRIPTION
1.	A240	Wheel, 14" x 8", 6 Bolt
2.	2800-1	Hub Cap
3.	10459	Cotter Pin, 3/16" x 1 1/2"
4.	10723	Slotted Hex Nut, 3/4" - 16
5.	10224	Spindle Washer, 3/4"
6.	A237	Bearing Outer
7.	R188	Cup, Outer
8.	R189	Cup, Inner
9.	R270	Hub Bolt, 9/16" - 18 x 1"
10.	2700-7	Hub, 6 Bolt, w/cups
11.	A238	Bearing, Inner
12.	A239	Grease Seal
13.	D839	Tire, 11L x 14"
14.	D1165	Valve Stem
15.	A902	Single Axle w/Spindle less Hubs, 106", 30" Rows, 8R-16R
	A903	Single Axle w/Spindle less Hubs, 121", 30" Rows w/Interplant, 8R-16R
	A904	Single Axle w/Spindle less Hubs, 112", 36" Rows w/Interplant 8R-12R
	A905	Single Axle w/Spindle less Hubs, 119", 38" Rows w/Interplant 8R-12R
	A906	Single Axle w/Spindle less Hubs, 138", All Stan- dard Wide Rows, 8R-12R
16.	A124-1	Tandem Axle Tube, 96", 30" Rows, 18R-24R
	A124-2	Tandem Axle Tube, 111", 30" Rows w/Interplant, 18R-24R
	A125	Tandem Axle Tube, 128", All Wide Row Models, 16R-24R
17.	A1286	Walking Beam w/Spindles less Hubs
18.	D575	Cap
19.	10011	HHCS, 5/8" - 11 x 5 1/2"
20.	10230	Lockwasher, 5/8"
21.	10104	Hex Nut, 5/8"
22.	10641	Grease Fitting
23.	D1819-2	Sleeve (Sub for D576)
	D576	Sleeve (Sub D1819-2)
A.	A541	Tire and Rim Assembly (Items 1, 13 and 14)

STANDARD WING ASSEMBLY - 8R36 THRU 16R30 – 18R30



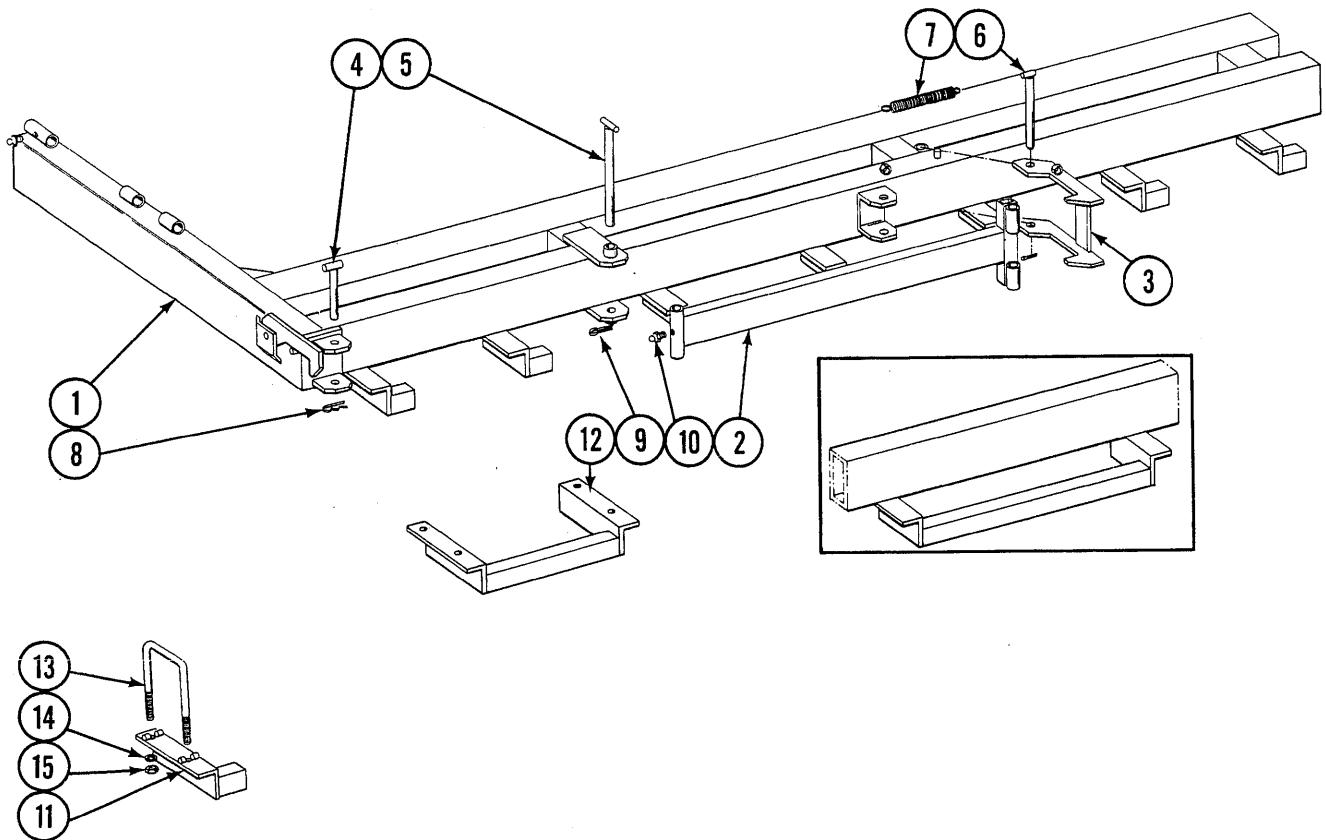
ITEM	PART NO.	DESCRIPTION
1.	A133-11R	Standard Wing Weld, R.H., 8R30, 120"
	A133-11L	Standard Wing Weld, L.H. 8R30, 120"
	A133-1R	Standard Wing Weld, R.H., 8R36, 144"
	A133-1L	Standard Wing Weld, L.H., 8R36, 144"
	A133-2R	Standard Wing Weld, R.H., 8R38", 152"
	A133-2L	Standard Wing Weld, L.H., 8R38", 152"
	A133-3R	Standard Wing Weld, R.H., 12R30, 180"
	A133-3L	Standard Wing Weld, L.H., 12R30, 180"
	A133-4R	Standard Wing Weld, R.H., 12R36, 216"
	A133-4L	Standard Wing Weld, L.H., 12R36, 216"
	A133-5R	Standard Wing Weld, R.H., 12R38, 228"
	A133-5L	Standard Wing Weld, L.H., 12R38, 228"
	A133-7R	Standard Wing Weld, R.H., 16R30, 240"
	A133-7L	Standard Wing Weld, L.H., 16R30, 240"
2.	A133-10R	Standard Wing Weld, R.H., 18R30, 270"
	A133-10L	Standard Wing Weld, L.H., 18R30, 270"
	A149-1L	Articulated Link Weld, 47 1/2", 8R36 and 38, 12R30, 36 and 38, L.H.
	A149-1R	Articulated Link Weld, 47 1/2", 8R36 and 38, 12R30, 36 and 38, R.H.
	A149-2L	Articulated Link Weld, 58 1/2", 16R30, L.H.
	A149-2R	Articulated Link Weld, 58 1/2", 16R30, R.H.
3.	A149-4L	Articulated Link Weld, 68 1/2" 18R30, L.H.
	A149-4R	Articulated Link Weld, 68 1/2" 18R30, R.H.
	A137L	Latch, Outer, L.H., 12R30 and Wide, 16R30 and 18R30
	A137R	Latch, Outer, R.H., 12R30 and Wide, 16R30 and 18R30
4.	A145L	Latch, Outer, L.H., 8 Row Models
	A145R	Latch, Outer, R.H., 8 Row Models
5.	A136	Pin, Pivot, 1 1/4" x 9" Use with A137L and R
	A144	Pin, Pivot, 1 1/16" x 9", Use with A145L & R
6.	A166	Pin Weld, Safety, 7/8" x 7"
7.	A135	Pin, Pivot, 1 1/4" x 12 3/4"
8.	D829	Spring
9.	10671	Hair Pin Clip, No. 6
10.	10460	Cotter Pin, 1/4" x 2"
	10641	Grease Fitting

STANDARD WING ASSEMBLY - 16R36, 16R38 AND 24R30 WITH BRACE



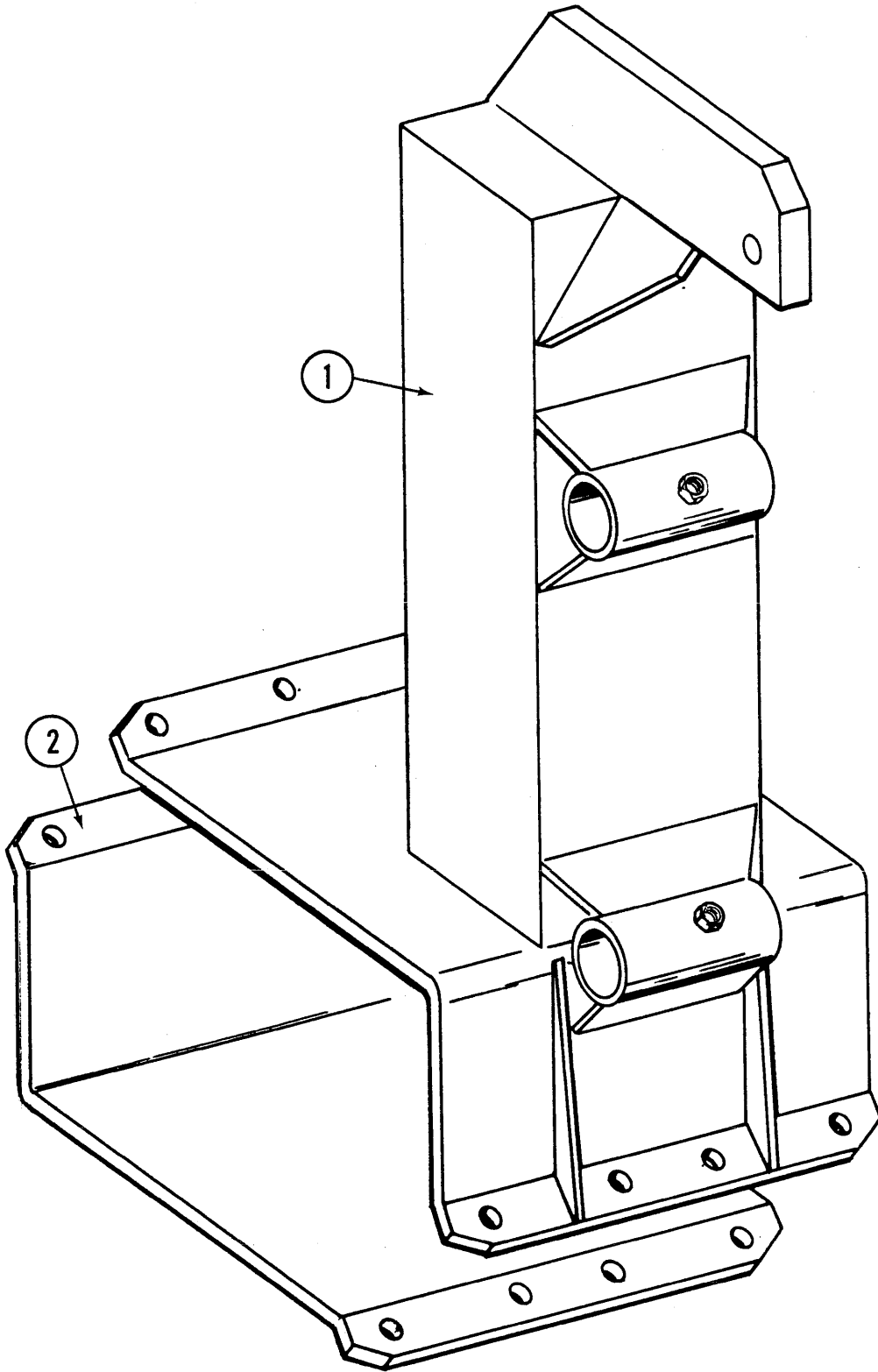
ITEM	PART NO.	DESCRIPTION
1.	A142-1R A142-1L A142-2R A142-2L A142-3R A142-3L	Wing Assembly w/Brace, R.H., 16R36, 288" Wing Assembly w/Brace, L.H., 16R36, 288" Wing Assembly w/Brace, R.H., 16R38, 304" Wing Assembly w/Brace, L.H., 16R38, 304" Wing Assembly w/Brace, R.H., 24R30, 360" Wing Assembly w/Brace, L.H., 24R30, 360"
2.	A149-4L A149-4R	Articulated Link Weld, 68 1/2", L.H. Articulated Link Weld, 68 1/2", R.H.
3.	A140R A140L	Latch, Outer, R.H. Latch, Outer, L.H.
4.	A166	Pin Weld, Safety, 7/8" x 7"
5.	A135	Pin, Pivot, 1 1/4" x 12 3/4"
6.	A136	Pin, Pivot, 1 1/4" x 9"
7.	D829	Spring
8.	10671	Hair Pin Clip, No. 6
9.	10460	Cotter Pin, 1/4" x 2"
10.	10641	Grease Fitting

EXTENDED WING ASSEMBLY - 8 ROW WIDE AND ALL 12 R MODELS



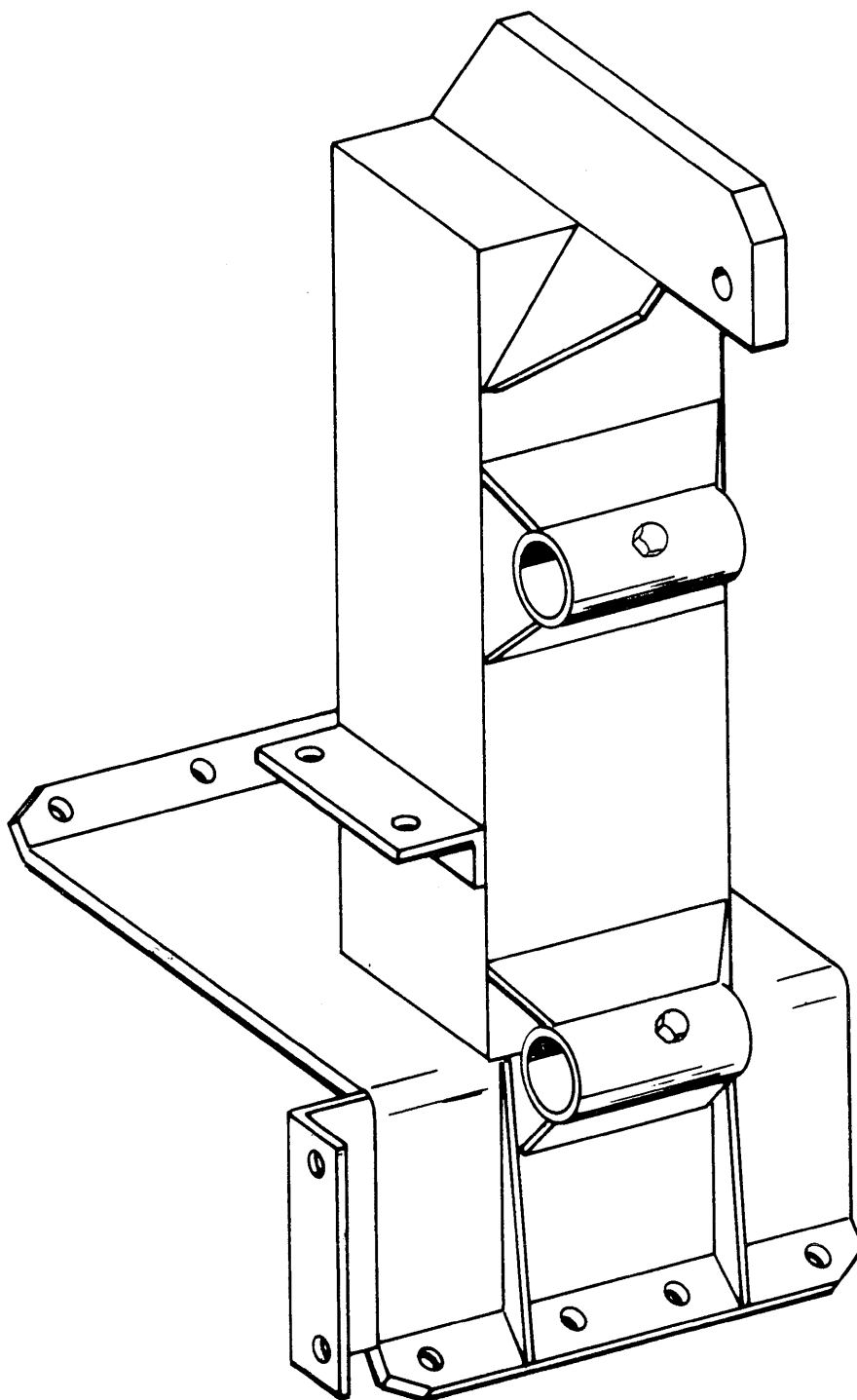
ITEM	PART NO.	DESCRIPTION
1.	A1710	Extended Wing Weld, R.H., 8R36, 144"
	A1711	Extended Wing Weld, L.H., 8R36, 144"
	A1712	Extended Wing Weld, R.H., 8R38, 152"
	A1713	Extended Wing Weld, L.H., 8R38, 152"
	A1714	Extended Wing Weld, R.H., 12R30, 180"
	A1715	Extended Wing Weld, L.H., 12R30, 180"
	A1716	Extended Wing Weld, R.H., 12R36, 216"
	A1717	Extended Wing Weld, L.H., 12R36, 216"
	A1718	Extended Wing Weld, R.H., 12R38, 228"
2.	A149-3L	Articulated Link Weld, 61 1/2", L.H.
	A149-3R	Articulated Link Weld, 61 1/2", R.H.
3.	A140R	Latch, Outer, R.H.
	A140L	Latch, Outer, L.H.
4.	A166	Pin Weld, Safety, 7/8" x 7"
5.	A135	Pin, Pivot, 1 1/4" x 12 3/4"
6.	A136	Pin, Pivot, 1 1/4" x 9"
7.	D829	Spring
8.	10671	Hair Pin Clip, No. 6
9.	10460	Cotter Pin, 1/4" x 2"
10.	10641	Grease Fitting
11.	A945	Bracket, Fertilizer Opener Mount, L.H.
	A946	Bracket, Fertilizer Opener Mount, R.H.
12.	A951	Bracket, Fertilizer Opener Mount, For 2-30"
		Rows 12R30 Only
13.	D1114	U-Bolt, 7" x 7" x 5/8" - 11
14.	10230	Lockwasher, 5/8"
15.	10104	Nut, Hex, 5/8" - 11

WHEEL TOWER MOUNT - EXTENDED WING



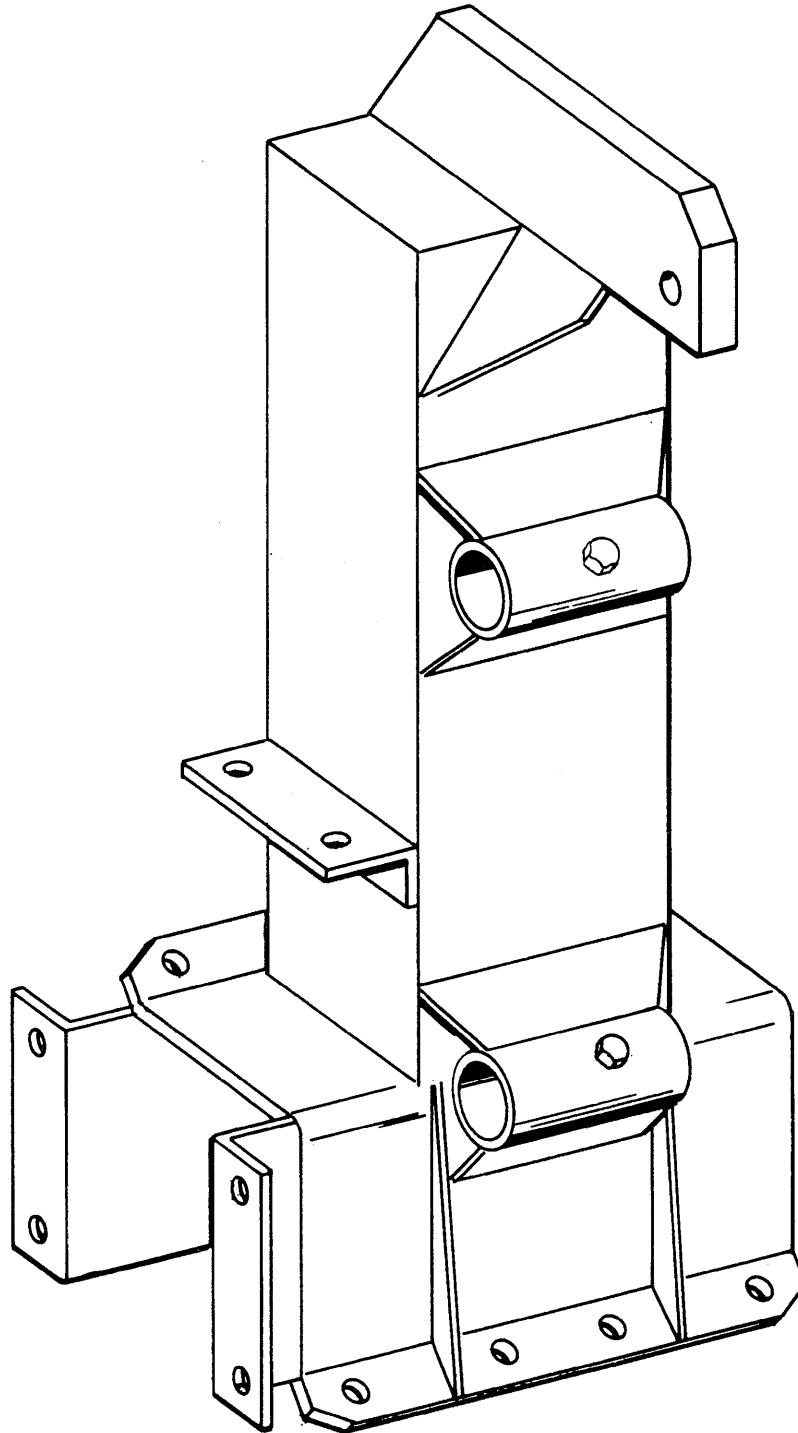
ITEM	PART NO.	DESCRIPTION
1.	A1842	Extended Wheel Tower Weld
2.	D802	Clamp, Half

WHEEL TOWER MOUNT - EXTENDED WING COMPACT MARKER MOUNT - DOUBLE FOLD MARKER ONLY



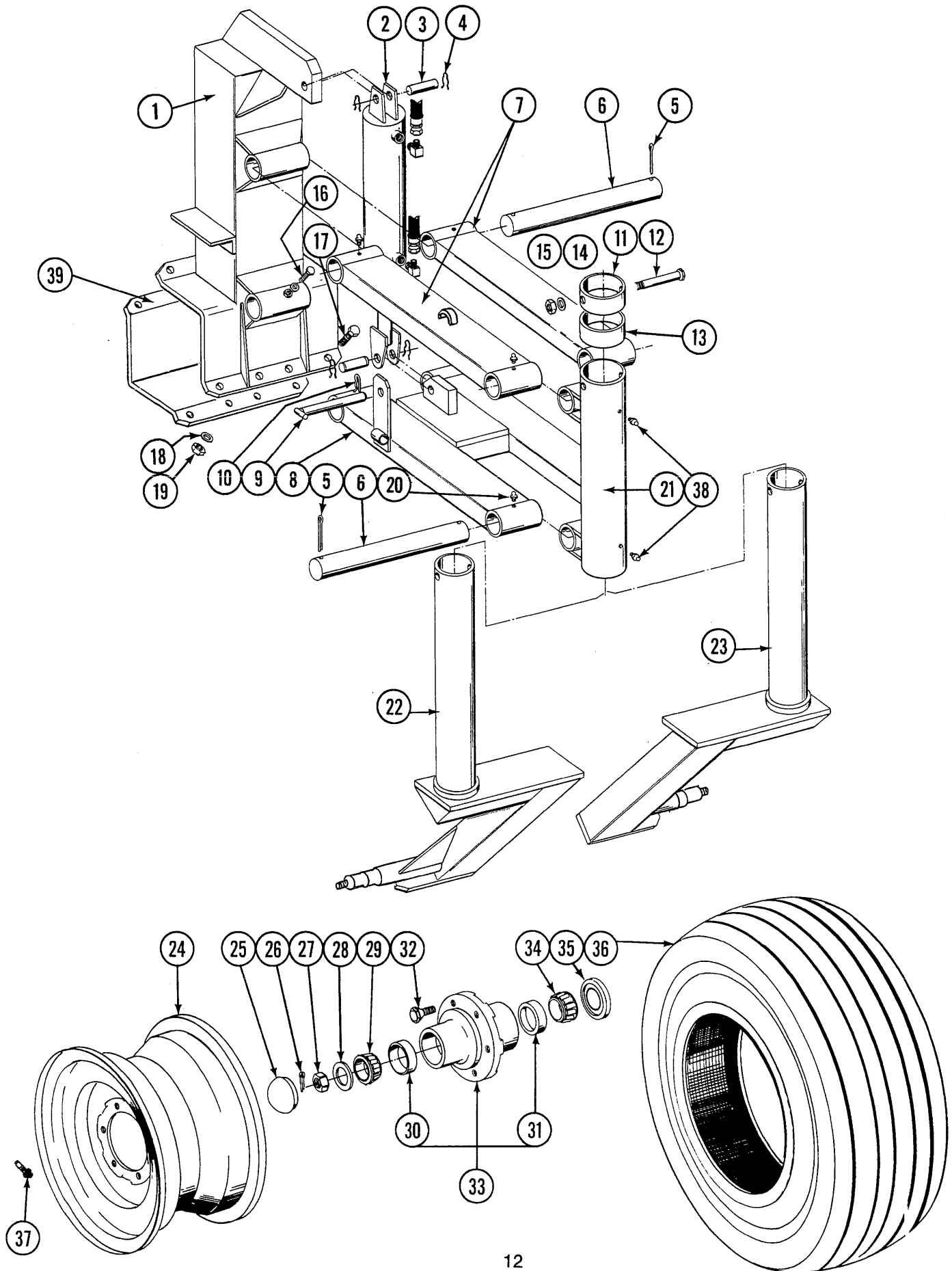
ITEM	PART NO.	DESCRIPTION
1.	A1843	Extended Wheel Tower Weld, L.H. w/Compact Markers
	A1844	Extended Wheel Tower Weld, R.H. w/Compact Markers (Shown)

**WHEEL TOWER MOUNT - STANDARD WING
COMPACT MARKER MOUNT - DOUBLE FOLD MARKER ONLY**



ITEM	PART NO.	DESCRIPTION
1.	A1841	Standard Wheel Tower Weld, L.H. w/Compact Markers
	A1840	Standard Wheel Tower Weld, R.H. w/Compact Markers (Shown)

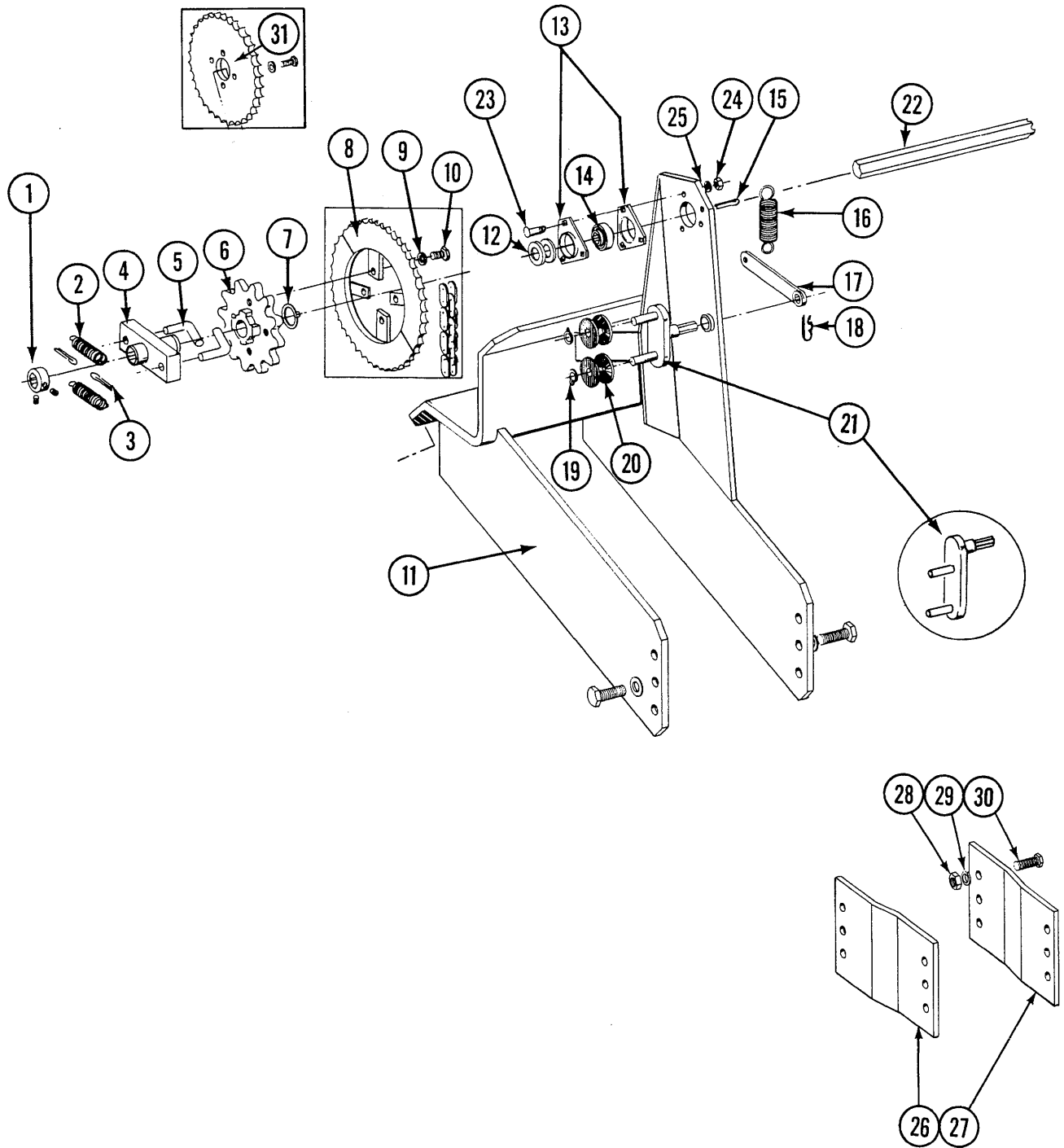
WHEEL TOWER ASSEMBLY



WHEEL TOWER ASSEMBLY

ITEM	PART NO.	DESCRIPTION
1.	A102	Standard Wheel Tower Weld (Shown)
	A1841	Standard Wheel Tower Weld, L.H. w/Compact Markers (see page 11)
	A1840	Standard Wheel Tower Weld, R.H., w/Compact Markers (see page 11)
	A1842	Extended Wheel Tower Weld (see page 9)
	A1843	Extended Wheel Tower Weld, L.H. w/Compact Markers (see page 10)
	A1844	Extended Wheel Tower Weld, R.H. w/Compact Markers (see page 10)
2.	A232	Cylinder, Transport Wheel Lift, 4" x 10"
3.	R375	Clevis Pin
4.	R193	Clips
5.	10461	Cotter Pin, 3/8" x 3"
6.	D519	Pin, 2 1/8" x 15 1/2"
7.	A103	Arm, Parallel, L.H.
	A1782	Arm, Parallel, R.H.
8.	A104	Arm Assembly, Lower Parallel
9.	A166	Pin Safety, 7/8" x 6 1/2"
10.	10671	Hair Pin Clip, No. 6
11.	D575	Cap
12.	10011	HHCS, 5/8" - 11 x 5 1/2"
13.	D1819-2	Sleeve
14.	10230	Lockwasher, 5/8"
15.	10104	Nut, Hex, 5/8" - 11
16.	10005	HHCS, 5/8" - 11 x 3/4"
17.	10027	HHCS, 3/4" - 10 x 2 1/2"
18.	10231	Lockwasher, 3/4"
19.	10105	Nut, Hex, 3/4" - 10
20.	10641	Grease Fitting
21.	A105	Tube, Pivot
22.	A1620	Spindle Assembly, less Hub, R.H.
23.	A1619	Spindle Assembly, less Hub, L.H.
24.	A240	Wheel, 14" x 8", 6 Bolt
25.	2800-1	Hub Cap
26.	10459	Cotter Pin, 3/16" x 1 1/2"
27.	10723	Nut, Slotted Hex, 3/4" - 16
28.	10224	Washer, Spindle, 3/4"
29.	A237	Bearing, Outer
30.	R188	Cup, Outer
31.	R189	Cup, Inner
32.	R270	Bolt, Hub, 9/16" - 18 x 1"
33.	2700-7	Hub, 6 Bolt w/Cups
34.	A238	Bearing, Inner
35.	A239	Grease Seal
36.	D839	Tire, 11L x 14"
37.	D1165	Valve Stem
38.	10640	Grease Fitting
39.	D503	Clamp, Half, Standard Wing

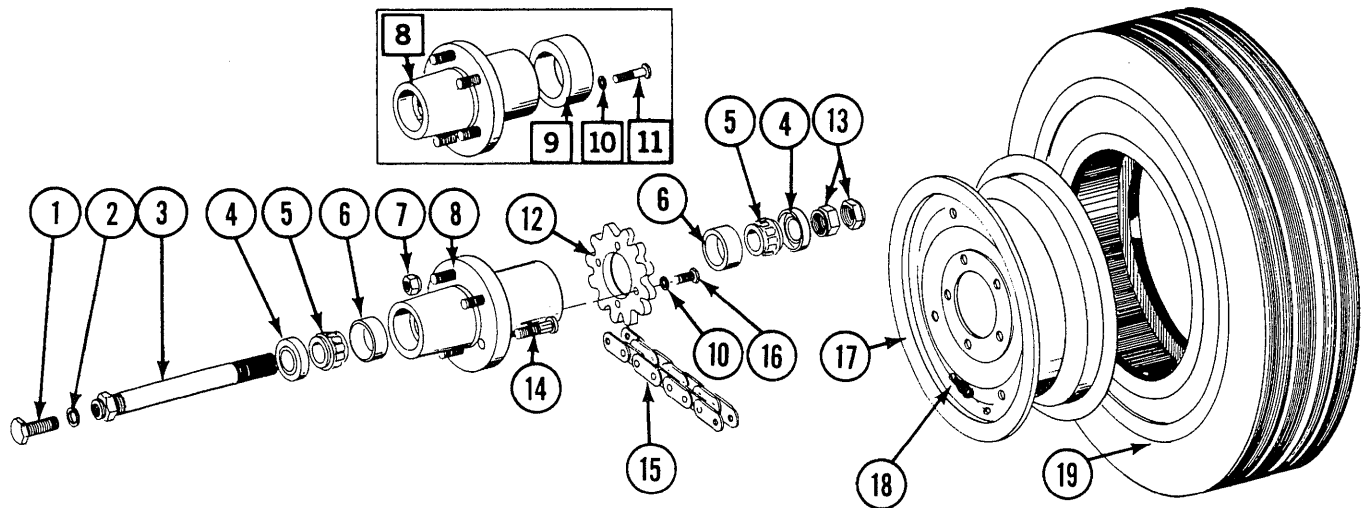
DRIVE GAUGE BRACKET ASSEMBLY



DRIVE GAUGE BRACKET ASSEMBLY

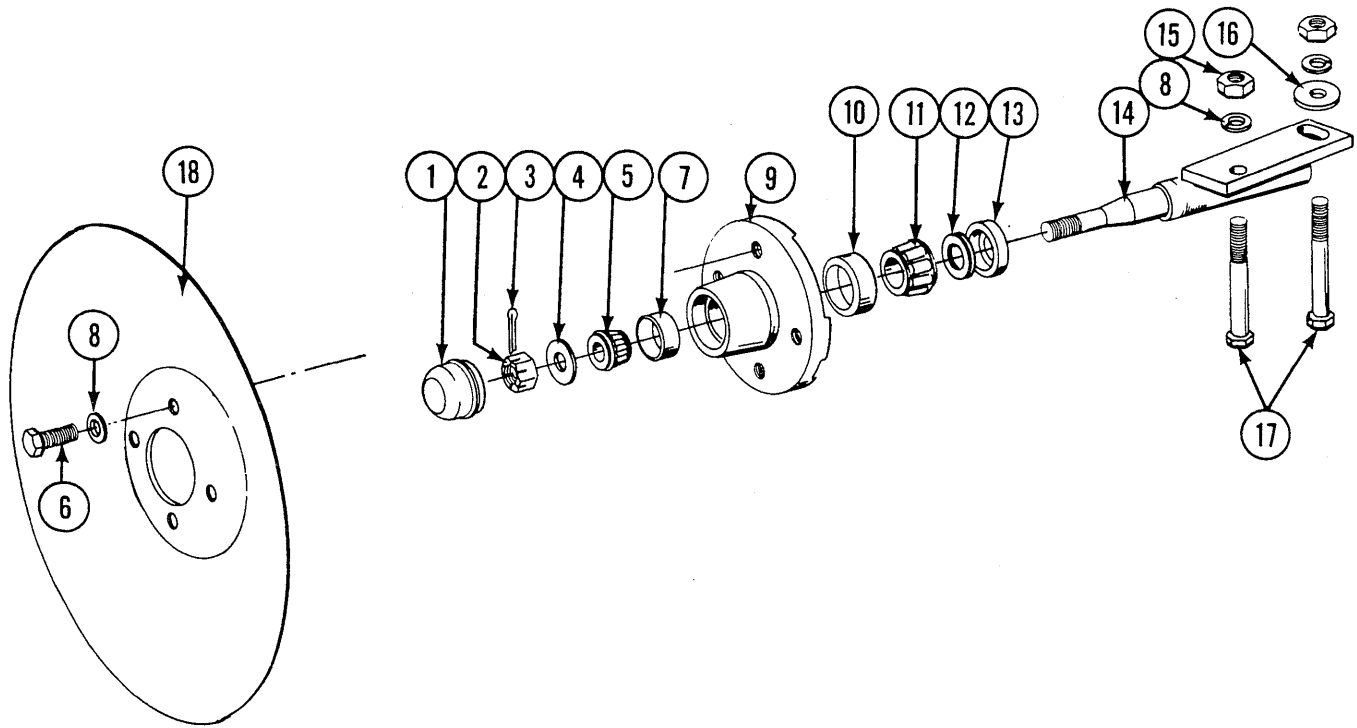
ITEM	PART NO.	DESCRIPTION
1.	A271	Lock Collar, Hex Bore w/Set Screws
2.	D1256	Spring
3.	10464	Cotter Pin, 3/16" x 1"
4.	A378	Block and Hub Assembly
5.	D1255	"L" Pin
6.	A376	Hub/Sprocket Assembly
7.	10430	Ring, Retaining, 1 1/4"
8.	A849	Extended Drill Sprocket, 48 Tooth
9.	10229	Lockwasher, 3/8"
10.	10002	HHCS, 3/8" - 16 x 3/4"
11.	A168	Bracket, Drive Gauge, Standard Wing
	A1724	Bracket, Drive Gauge, Extended Wing
	A1726	Bracket, Drive Gauge w/Compact Marker Mount, R.H., Standard Wing
	A1727	Bracket, Drive Gauge w/Compact Marker Mount, L.H. Standard Wing
12.	10233	Machinery Bushing
13.	3400-1	Flangette
14.	2100-3	Bearing, 7/8" Hex
15.	10466	Cotter Pin, 1/4" x 3/4"
16.	D913	Spring
17.	A272	Idler Arm
18.	10670	Hairpin Clip, No. 3
19.	10435	Snap Ring
20.	D916	Idler Spool
21.	A182	Idler Bracket
	A852	Idler Bracket (For use with extended drill sprocket)
22.		Shaft, Hex Drive, 7/8"
23.	10303	Carriage Bolt, 5/16" - 18 x 1"
24.	10106	Nut, Hex, 5/16" - 18
25.	10232	Lockwasher, 5/16"
26.	D1329	Bracket, Gauge Wheel Extension, L.H.
27.	D1328	Bracket, Gauge Wheel Extension, R.H.
28.	10105	Nut, Hex, 3/4" - 10
29.	10231	Lockwasher, 3/4"
30.	10026	HHCS, 3/4" - 10 x 2"
31.	2500-18	Sprocket, 12 Tooth, 8 thru 12 Row, Hex Bore, Optional
A.	A261R	Ratchet and Sprocket Assembly, R.H. (Items 2 thru 7) 8 Row thru 24 Row, Optional
B.	R444	Idler Assembly (Items 15 thru 21)
C.	R4001	Extended Drill Sprocket Package Includes: (2) A849 (2) A852 (2) 3200-6 (8) 10002 (8) 10229

DRIVE GAUGE WHEEL



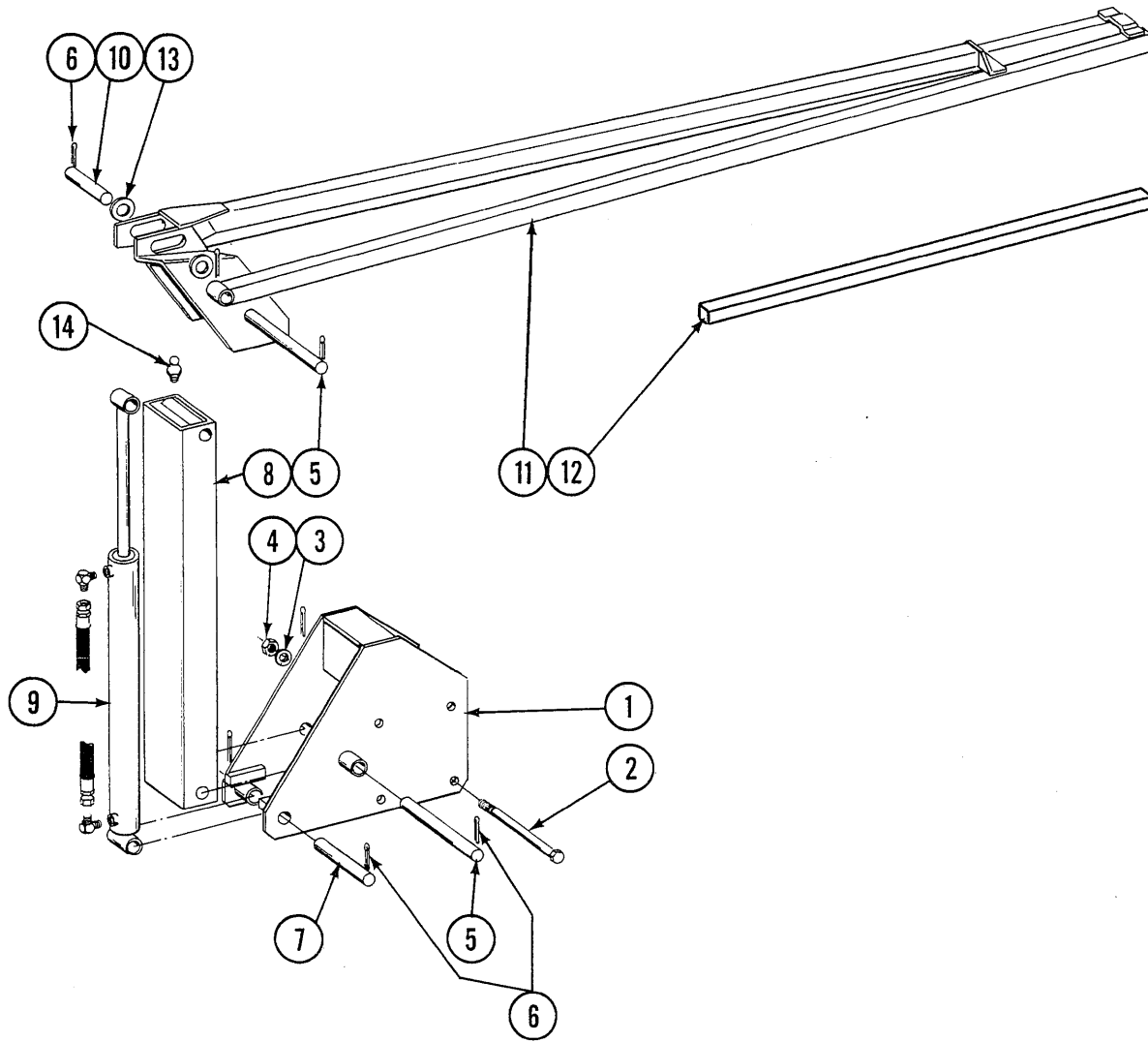
ITEM	PART NO.	DESCRIPTION
1.	10026	HHCS, 3/4" - 10 x 2
2.	10231	Lockwasher, 3/4"
3.	A652	Spindle Weld
4.	A252	Seal, Grease
5.	A251	Bearing
6.	R190	Cup
7.	R267	Nut, Wheel, 1/2" - 20 UNF
8.	A255	Hub, W Cups and Studs (Requires Spacer)
	A547	Hub, W Cups and Studs
9.	D915	Spacer
10.	10232	Lockwasher, 5/16"
11.	10031	HHCS, 5/16" - 18 x 1 3/4"
12.	2500-17	Sprocket, Bolt-On, 12 Tooth
13.	D831	Nut, Shoulder, 1 1/4"
14.	R204	Stud, Wheel, 1/2" - 20 UNF x 1 7/8"
15.	3200-60	Chain, No. 2050, 60 Pitch, Incl. Connector Link
	3200-6	Chain, No. 2050 (Add to chain when using extended drill sprocket)
	R195	Connector Link, No. 2050
16.	10019	HHCS, 5/16" - 18 x 1"
17.	A241	Wheel, 15" x 5, 5 Bolt
18.	D1166	Valve Stem
19.	D844	Tire, 7.60 x 15", 4 Ply
A.	A269	Drive Hub Assembly (Items 1-14)
	A683	Drive Hub Assembly (Items 1-8, 10, 12-14 and 16)
B.	A374	Tire and Rim Assembly, 7.60 x 15" (Items 17-19)

MARKER HUB ASSEMBLY



ITEM	PART NO.	DESCRIPTION
1.	D840	Hub Cap
2.	10725	Hex Nut, Slotted, 5/8" - 18
3.	10470	Cotter Pin, 5/32" x 1"
4.	10724	Washer, 5/8"
5.	A257	Bearing, Outer
6.	10722	HHCS 1/2" - 20 x 1"
7.	R151	Cup, Outer
8.	10228	Lockwasher, 1/2"
9.	A167	Hub w/Cups
10.	R150	Cup, Inner
11.	A245	Bearing, Inner
12.	A899	Seal, Rubber
13.	A243	Seal, Grease
14.	A172L	Spindle Assembly, L.H. (shown)
	A172R	Spindle Assembly, R.H.
15.	10102	Hex Nut, 1/2" - 13
16.	10216	Washer, 1/2" USS
17.	10033	HHCS 1/2" - 13 x 3 1/2"
18.	D746	Disc 16"
A.	A305	Hub and Spindle Assembly L.H. Less Disc
	A306	Hub and Spindle Assembly R.H. Less Disc

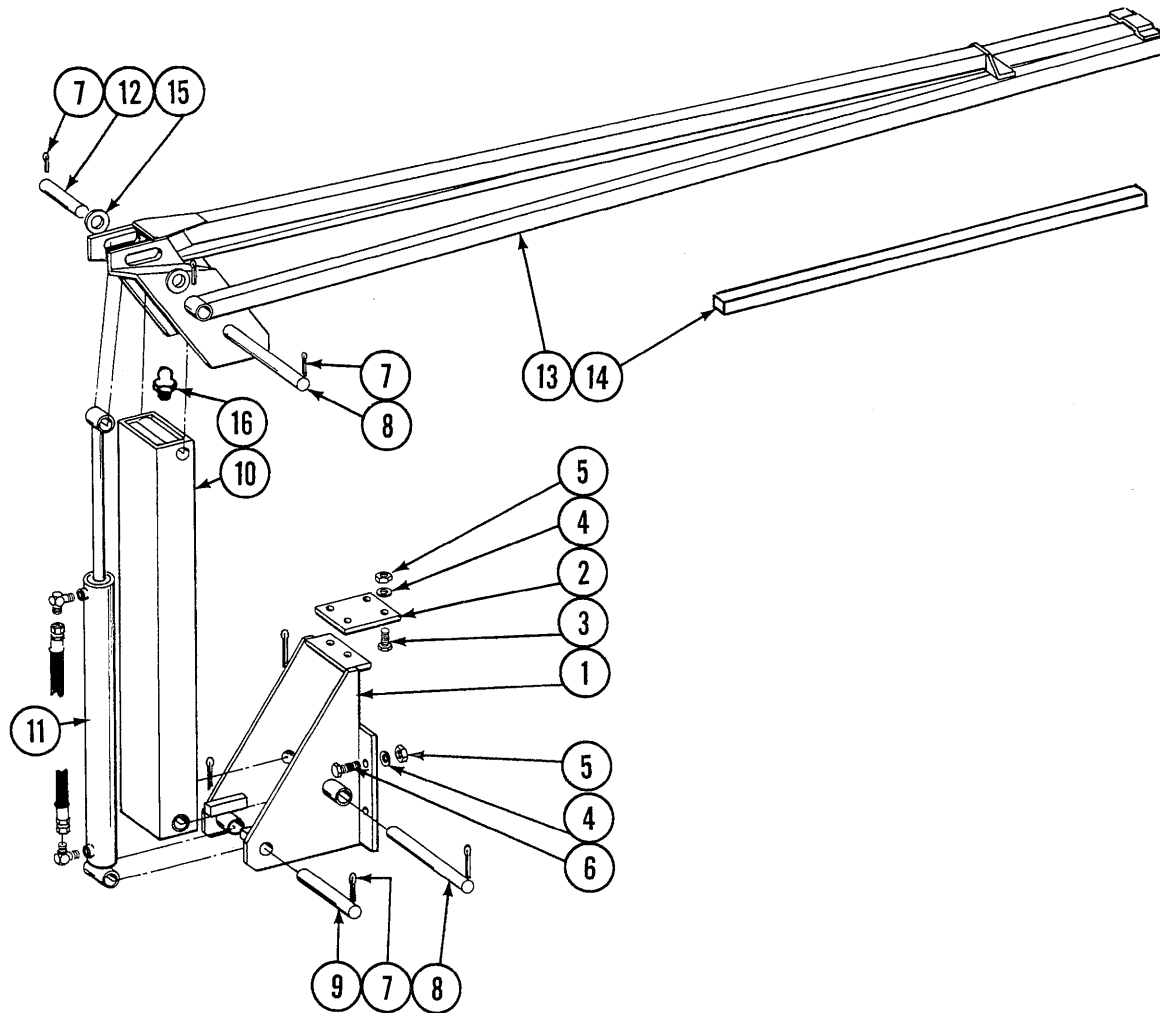
LOW PROFILE - DOUBLE FOLD MARKER ASSEMBLY 8R30, 8R WIDE, 12R30, 12R36/38 AND 16R30



ITEM	PART NO.	DESCRIPTION
1.	A165	Marker Mount
2.	10030	HHCS, 3/4" - 10 x 9"
3.	10231	Lockwasher, 3/4"
4.	10105	Hex Nut, 3/4" -10
5.	D737	Pivot Pin, 1 1/4" x 13 1/4"
6.	10460	Cotter Pin, 1/4" x 2"
7.	D652	Pin, Cylinder, 1 1/4" x 9 1/2"
8.	A151	Arm, First Stage
9.	A233	Cylinder, 2 1/2" x 20"
10.	D826	Pin, Cylinder, 1 1/4" x 5 1/2"
11.	A666	Marker Arm, Second Stage, 8R30, 45"
	A587	Marker Arm, Second Stage, 8R Wide, 66"
	A171-2	Marker Arm, Second Stage, 12R30, 105"
	A171-3	Marker Arm, Second Stage, 12R36, 138"
	A171-4	Marker Arm, Second Stage, 12R38, 150"
	A171-5	Marker Arm, Second Stage, 16R30, 165"
12.	D453-3	Extension Tube, 50"
13.	10226	Washer, 1 1/4" SAE
14.	10641	Grease Fitting

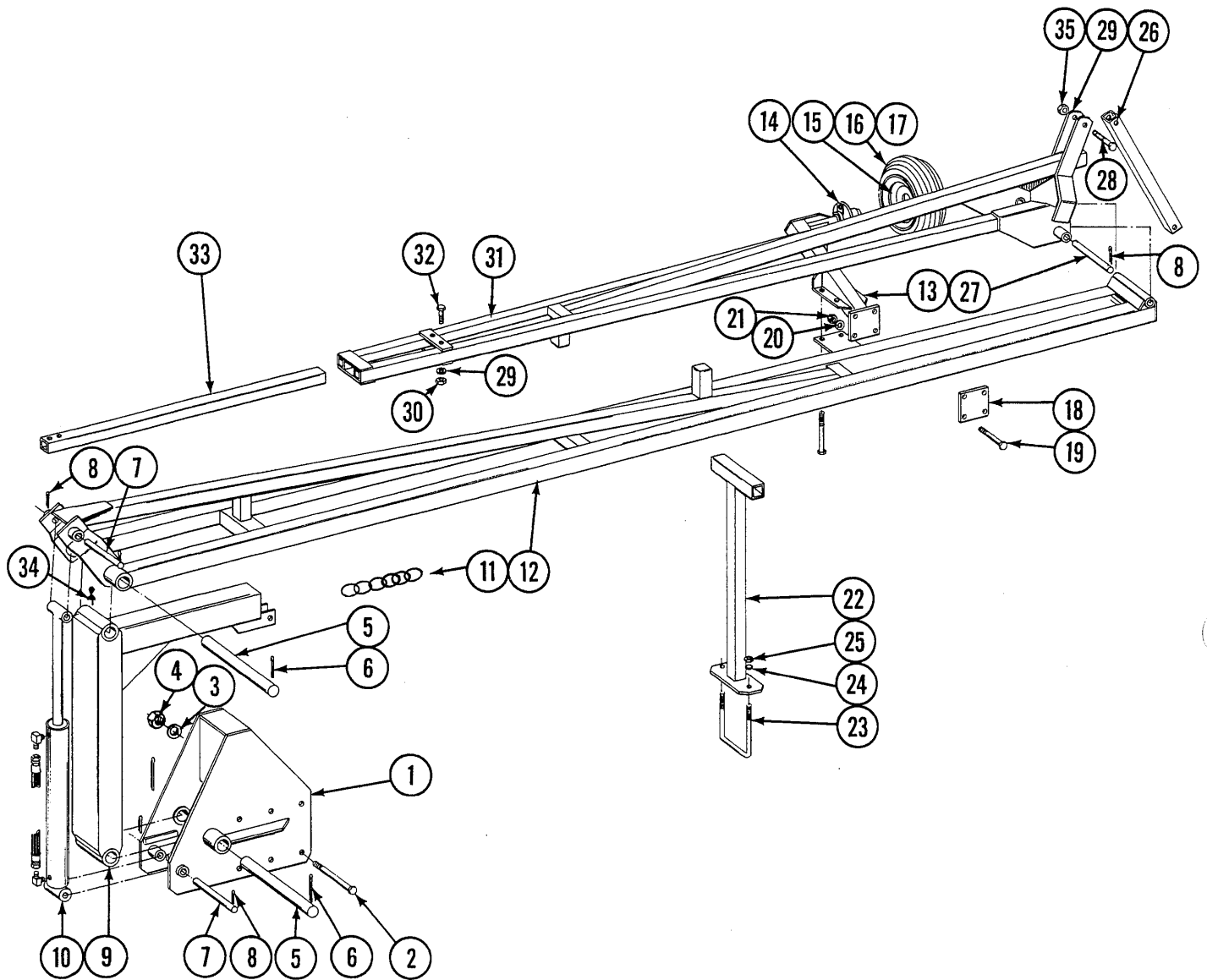
LOW PROFILE - DOUBLE FOLD MARKER ASSEMBLY, COMPACT MARKER MOUNT

8R30, 8R WIDE, 12R30, 12R36/38



ITEM	PART NO.	DESCRIPTION
1.	A371	Marker Mount, Compact
2.	D668	Plate
3.	10005	HHCS, 5/8" - 11 x 1 3/4"
4.	10230	Lockwasher, 5/8"
5.	10104	Hex Nut, 5/8" - 11
6.	10007	HHCS, 5/8" - 11 x 1 1/2"
7.	10460	Cotter Pin, 1/4" x 2"
8.	D737	Pivot Pin, 1 1/4" x 13 1/4"
9.	D652	Pin, Cylinder, 1 1/4" x 9 1/2"
10.	A151	Arm, First Stage
11.	A233	Cylinder, 2 1/2" x 20"
12.	D826	Pin, Cylinder, 1 1/4" x 5 1/2"
13.	A666	Marker Arm, Second Stage, 8R30, 45"
	A587	Marker Arm, Second Stage, 8R Wide, 66"
	A171-2	Marker Arm, Second Stage, 12R30, 105"
	A171-3	Marker Arm, Second Stage, 12R36, 138"
	A171-4	Marker Arm, Second Stage, 12R38, 150"
14.	D453-3	Extension Tube, 50"
15.	10226	Washer, 1 1/4" SAE
16.	10641	Grease Fitting

LOW PROFILE - TRIPLE FOLD MARKER ASSEMBLY 16R36/38, 18R30 AND 24R30

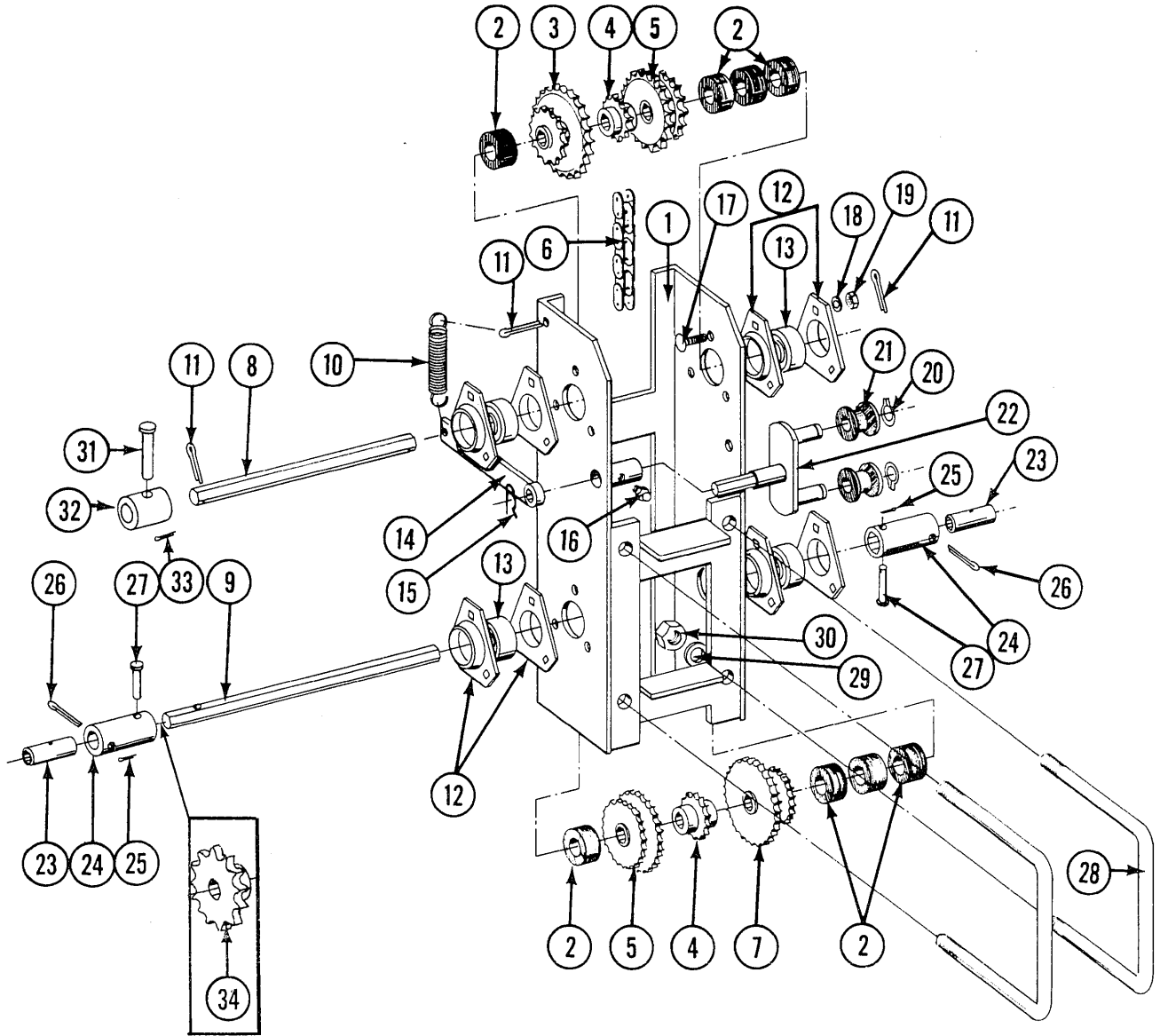


LOW PROFILE - TRIPLE FOLD MARKER ASSEMBLY

16R36/38, 18R30 AND 24R30

ITEM	PART NO.	DESCRIPTION
1.	A157	Marker Mount
2.	10030	HHCS, 3/4" - 10 x 9"
3.	10231	Lockwasher, 3/4"
4.	10105	Hex Nut, 3/4" - 10
5.	D677	Pivot Pin, 2 1/8" x 15 1/2"
6.	10461	Cotter Pin, 3/8" x 3"
7.	D671	Pin, Cylinder, 1 1/4" x 10 3/4"
8.	10460	Cotter Pin, 1/4" x 2"
9.	A158	Arm, First Stage
10.	A234	Cylinder, 3 1/2" x 20"
11.	3302-1	Chain, 7-OS, 70 Links, 16R36 and 18R30
	3302-2	Chain, 7-OS, 80 Links, 16R38
	3302-3	Chain, 7-OS, 100 Links, 24R30
12.	A175-1	Marker Arm, Second Stage, 16R36 and 18R30, 136"
	A175-2	Marker Arm, Second Stage, 16R38, 150"
	A175-3	Marker Arm, Second Stage, 24R30, 184"
13.	A160R	Gauge Wheel Spindle Assembly less Hub, R.H.
	A160L	Gauge Wheel Spindle Assembly less Hub, L.H.
14.		4 Bolt Hub Assembly (see page 17)
15.	A246	Rim, T8 x 7 x 4
16.	D841	Tire, 16 x 6.5 x 8
17.	D1364	Tube, 16 x 6.5 x 8
18.	D692	Spindle Assembly Mounting Plate
19.	10063	HHCS, 3/8" - 16 x 4"
20.	10229	Lock Washer, 3/8"
21.	10101	Hex Nut, 3/8" - 16
22.	A179	Marker Stand
23.	D1114	U-Bolt, 7" x 7" x 5/8" - 11
24.	10230	Lockwasher, 5/8"
25.	10104	Hex Nut, 5/8" - 11
26.	D703	Bracket, Marker Chain
27.	D704	Pivot Pin, 1 1/4" x 14"
28.	10033	HHCS, 1/2" - 13 x 3 1/2"
29.	10228	Lockwasher, 1/2"
30.	10102	Hex Nut, 1/2" - 13
31.	A178-1	Marker Arm, Third Stage, 16R36, 90 1/2"
	A178-2	Marker Arm, Third Stage, 16R38, 92 1/2"
	A178-3	Marker Arm, Third Stage, 18R30, 72 1/2"
	A178-4	Marker Arm, Third Stage, 24R30, 114 1/2"
32.	10032	HHCS, 1/2" - 13 x 3 3/4"
33.	D453-3	Extension Tube, 50"
34.	10641	Grease Fitting
35.	1011	Lock Nut, 1/2" - 13
A.	A542	Tire and Rim Assembly (Item 15-17)

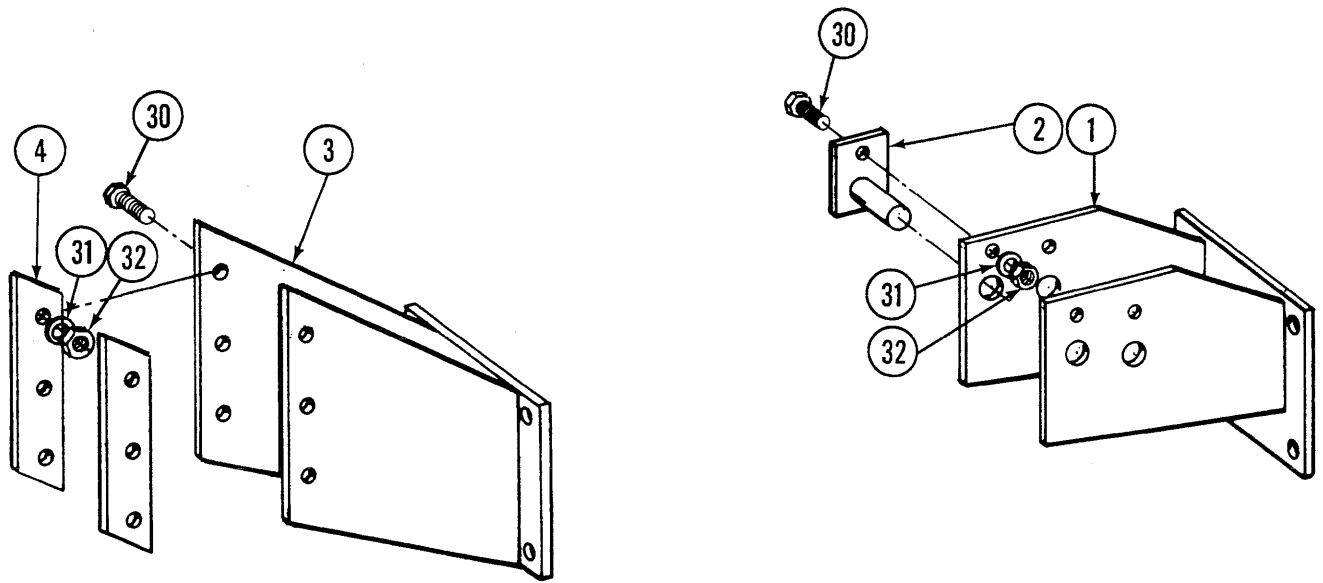
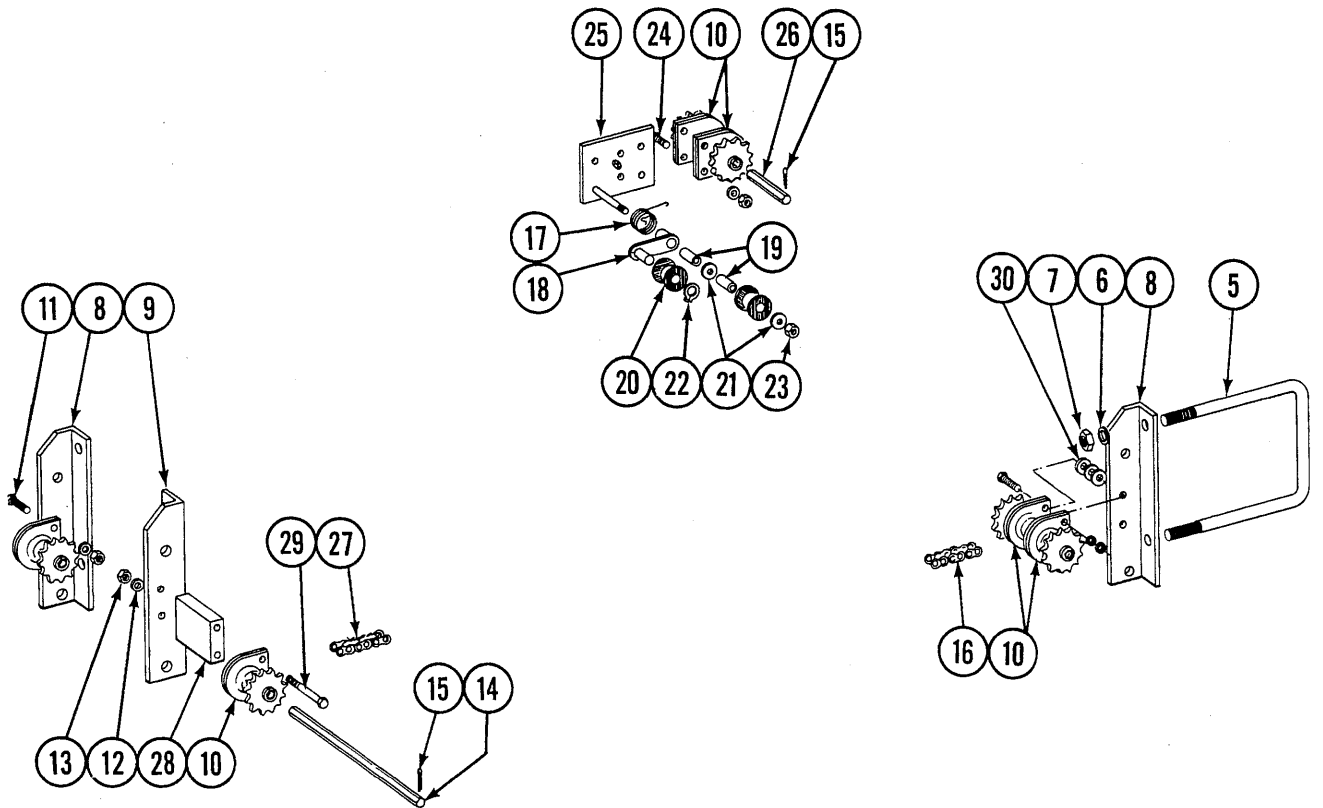
TRANSMISSION ASSEMBLY



TRANSMISSION ASSEMBLY

ITEM	PART NO.	DESCRIPTION
1.	A177	Transmission Case
2.	D832	Spacer, Rubber
3.	2500-3	Sprocket, 16-30 Tooth
4.	2500-1	Sprocket, 14 Tooth
5.	2500-2	Sprocket, 22-26 Tooth
6.	3300-40	Chain, No. 2040, 40 Pitch Including Connector Link
	R194	Connector Link
7.	2500-6	Sprocket, 18-28 Tooth
8.	D925	Upper Shaft
9.	D926	Lower Shaft
10.	D913	Spring
11.	10463	Cotter Pin, 1/4" x 1 1/2"
12.	3400-1	Flangette
13.	2100-3	7/8 Hex Bore Bearing
14.	A272	Idler Arm
15.	10670	Hair Pin Clip, No. 3
16.	10640	Grease Fitting, 1/4"
17.	10303	Carriage Bolt, 5/16" - 18 x 1"
18.	10232	Lockwasher, 5/16"
19.	10106	Hex Nut, 5/16" - 18
20.	10435	Retaining Ring
21.	D1067	Idler Roller
22.	A242	Tightener Weld
23.	D747	Drill Shaft Drive 9/16"
24.	D748	Coupler, Drill Shaft Drive
25.	10455	Cotter Pin, 1/16" x 1/2"
26.	10462	Cotter Pin, 3/16" x 2"
27.	10548	Clevis Pin, 1/4" x 1 3/4"
28.	D1114	U-Bolt, 7" x 7" x 5/8" -11
29.	10230	Lockwasher, 5/8"
30.	10104	Hex Nut, 5/8" - 11
31.	10558	Clevis Pin 5/16" x 1 3/4"
32.	D1649	Coupler
33.	10456	Cotter Pin 1/8" x 3/4"
34.	2500-19	Unit Drive Sprocket - (Special)
A.	A503	Idler Assembly (Includes Items 20-22)
B.	A277	Transmission Assembly (Includes Items 1-27)

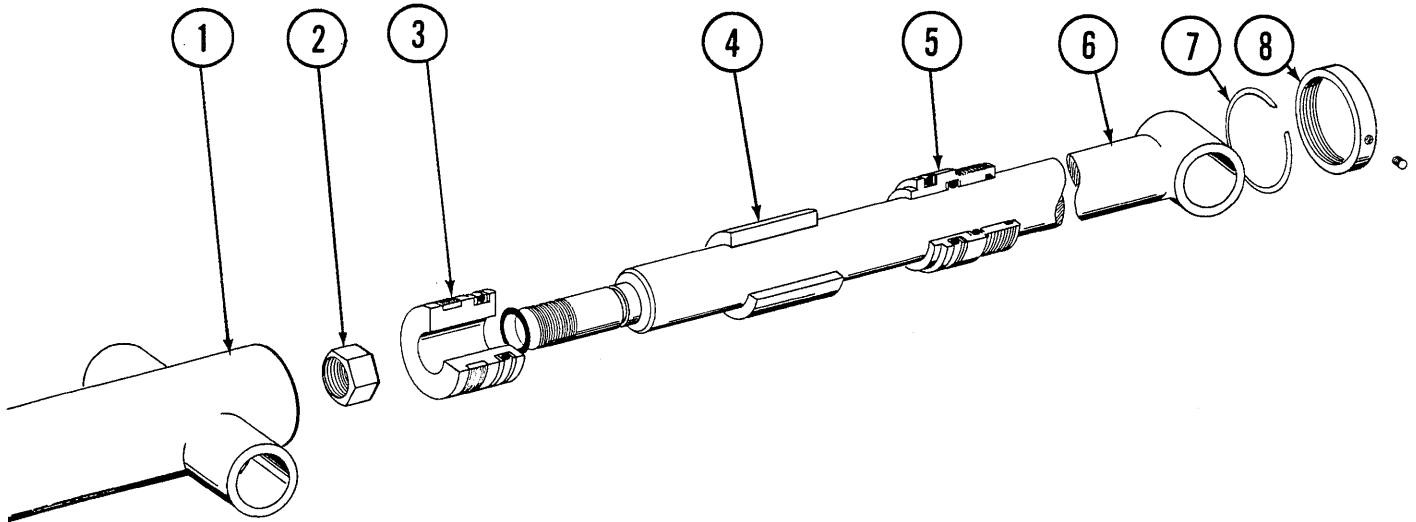
DRILL SHAFT DRIVE LINE - CENTER ROW



DRILL SHAFT DRIVE LINE - CENTER ROW

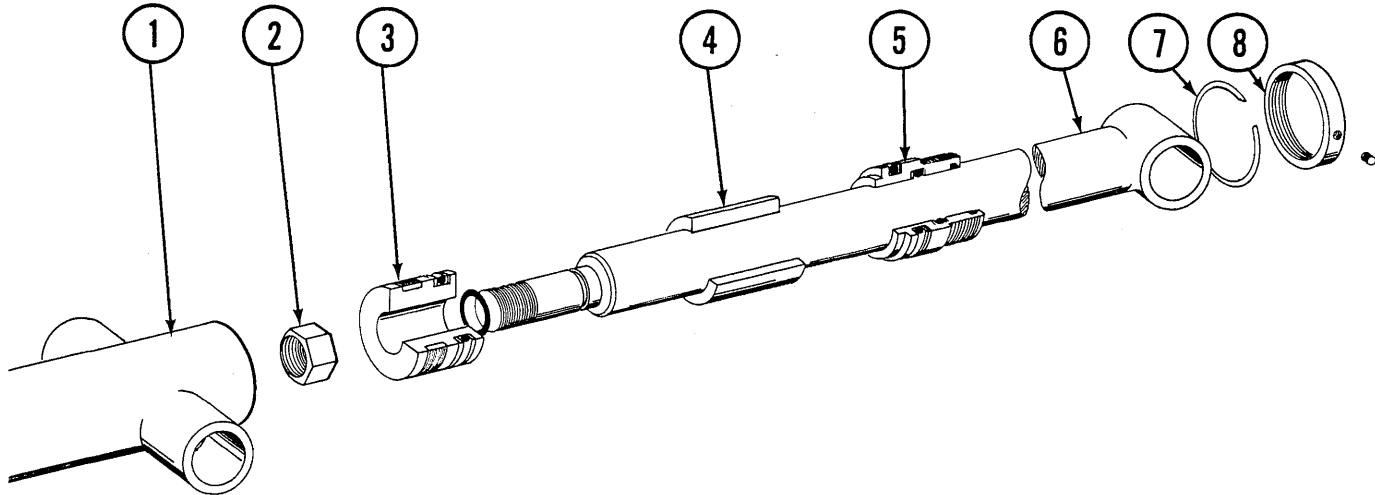
ITEM	PART NO.	DESCRIPTION
1.	A260	Mounting Bracket, Center Row, Bolt on Style
2.	A1901	Trunion Cylinder Mounting Bracket
3.	A1902	Mounting Bracket, Center Row, Weld on Style
4.	D1425	Bracket, Mount Plate
5.	D1114	U-Bolt, 7" x 7" x 5/8" - 11
6.	10230	Lockwasher, 5/8"
7.	10104	Hex Nut, 5/8" - 11
8.	D1022L	Support, L.H.
9.	D2298	Support, Special
10.	A2057	Bearing and Sprocket
11.	10001	HHCS, 3/8" - 16 x 1"
12.	10229	Lockwasher, 3/8"
13.	10101	Hex Nut, 3/8" - 16
14.	D2275	Shaft, 9/16" x 19 3/4"
15.	10459	Cotter Pin, 3/16" x 1 1/2"
16.	3303-346	Chain, No. 41, 346 Links, Includes connector link and offset link
	R196	Connector Link, No. 41
17.	D1065	Idler Spring
18.	A2056	Idler Arm
19.	D1026	Spacer
20.	D1068	Idler Spool
21.	10210	Washer, 3/8" USS
22.	10435	Retaining Ring
23.	10108	Lock Nut, 3/8" - 16
24.	10003	HHCS, 3/8" - 16 x 1 1/2"
25.	A1273	Idler Plate
26.	D2257	Shaft, 9/16" x 5 3/4"
27.	3303-158	Chain, No. 41, 158 Links, Includes Connector Link
28.	D2279	Mount Block
29.	10172	HHCS, 3/8" - 16 x 5"
30.	10039	HHCS, 1/2" - 13 x 1 3/4"
31.	10228	Lockwasher, 1/2"
32.	10102	Hex Nut, 1/2" - 13

TRUNION CYLINDER - 8 ROW THRU 12 ROW WIDE



ITEM	PART NO.	DESCRIPTION
1.	R117	Tube Assembly
2.	R124	Nut, 1 1/4" - 12
3.	R120	Piston
4.	R121	Stroke Collar
5.	R119	Head Gland
6.	R118	Shaft Assembly
7.	R123	Wire Ring
8.	R122	Head Gland Nut
	R125	Seal Kit, Includes (1) Wear Ring (3) O-Ring (1) Poly O-Ring (4) BU Washer (1) Wiper
*A.	A230	Cylinder Complete, 2 1/2" x 50 3/16"
* To identify - 13052 Stamped on barrel		

TRUNION CYLINDER - 8 ROW THRU 12 ROW WIDE

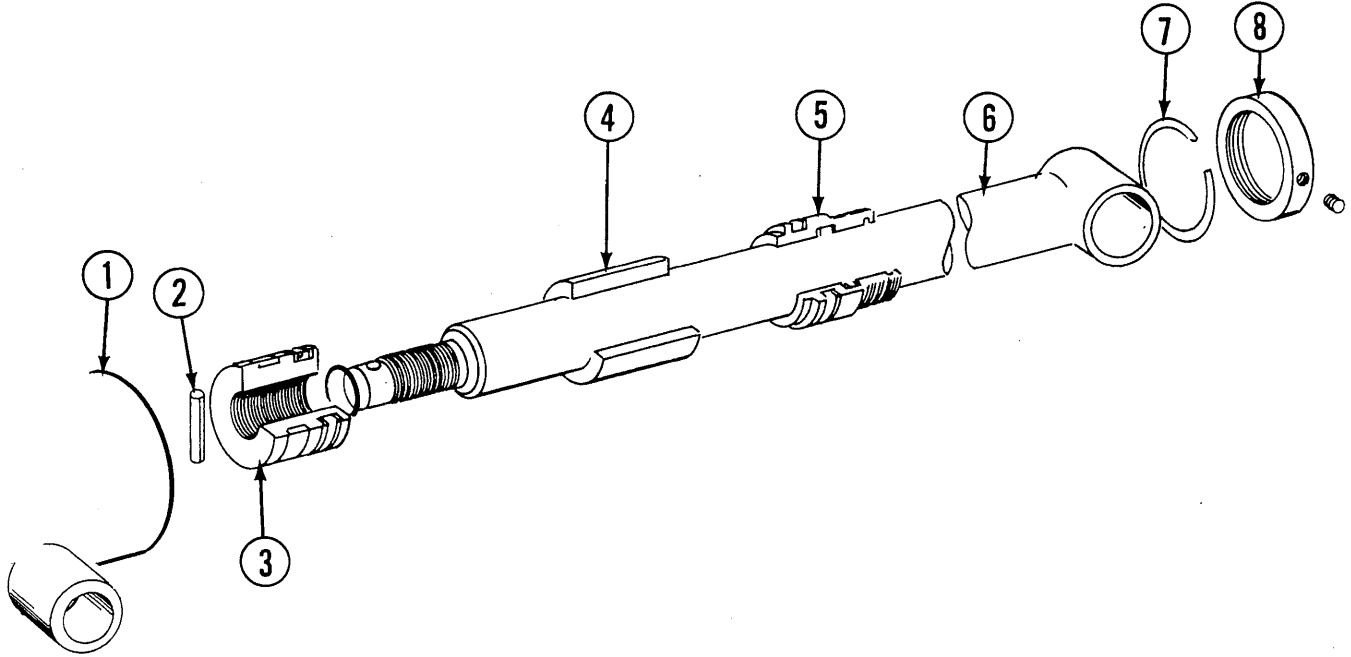


ITEM	PART NO.	DESCRIPTION
1.	R144	Tube Assembly
2.	R124	Nut, 1 1/4" - 12
3.	R120	Piston
4.	R121	Stroke Collar
5.	R119	Head Gland
6.	R118	Shaft Assembly
7.	R123	Wire Ring
8.	R122	Head Gland Nut
	R145	Seal Kit, Includes (3) O-Rings (1) Wear Ring (1) Poly O-Ring (4) BU Washers (1) Wiper

*A. A276 Cylinder Complete, 2 1/2" x 50"

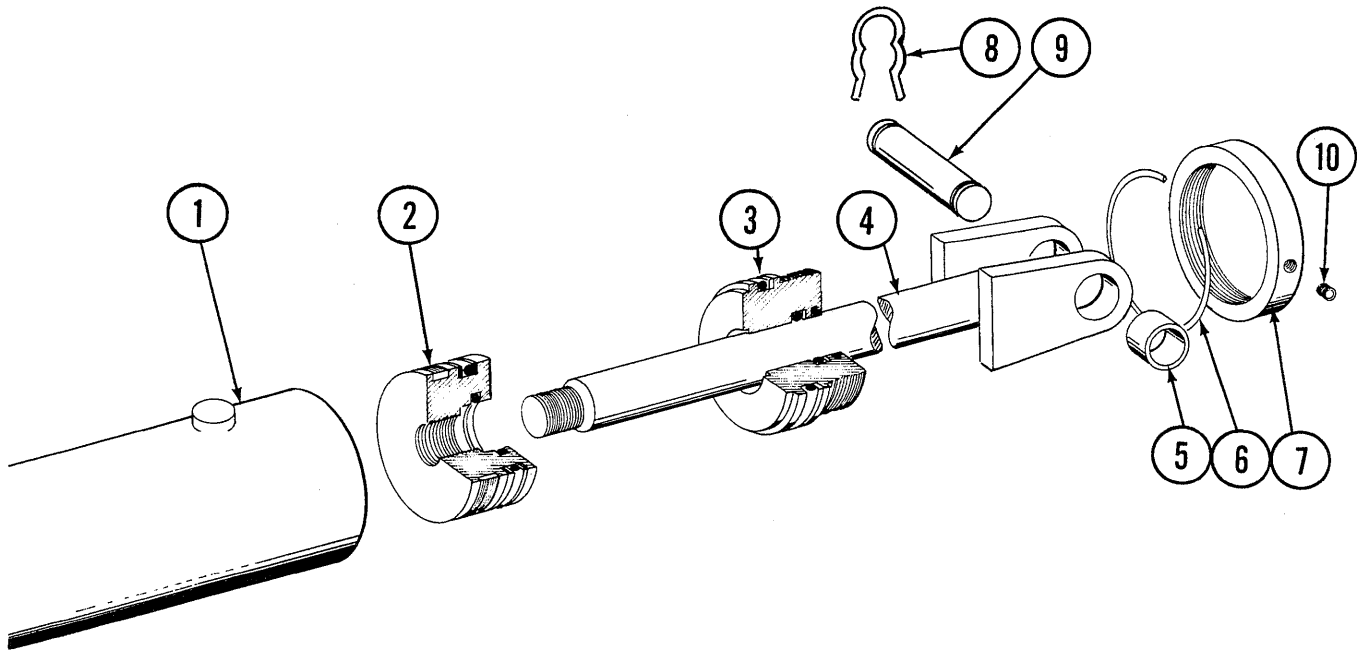
* To identify - 13009 Stamped on barrel

TRUNION CYLINDER - 16 ROW THRU 24 ROW



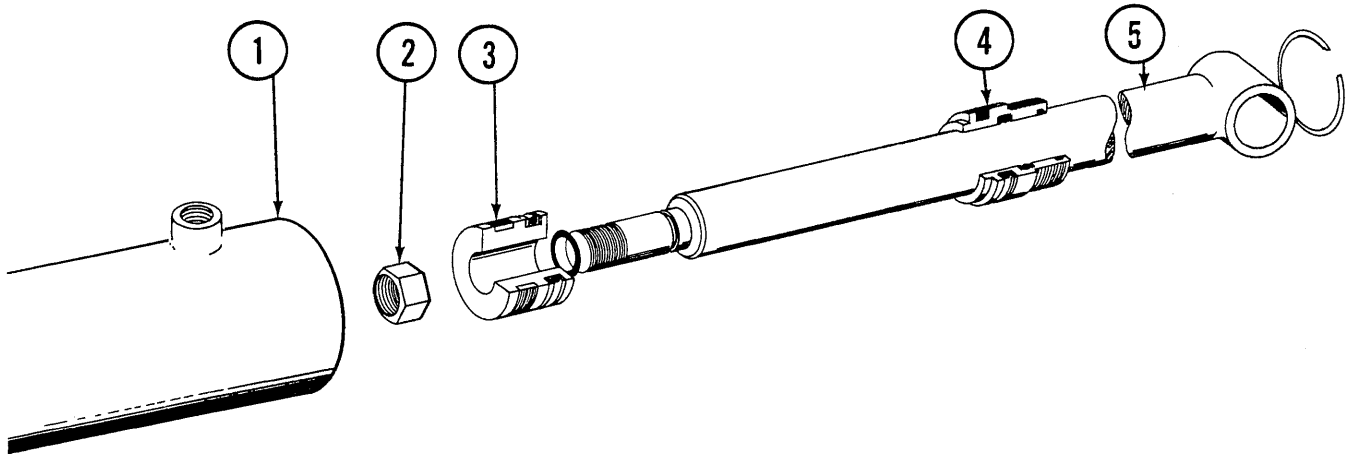
ITEM	PART NO.	DESCRIPTION
1.	R126	Tube Assembly
2.	10604	Roll Pin
3.	R129	Piston
4.	R130	Stroke Collar
5.	R128	Head Gland
6.	R127	Shaft Assembly
7.	R132	Wire Ring
8.	R131	Head Gland Nut
	R133	Seal Kit, Includes (1) Wear Ring (3) O-Ring (1) Poly O-Ring (4) BU Washer (1) Wiper
A.	A231	Cylinder Complete, 3" x 50 5/16"

LIFT CYLINDER



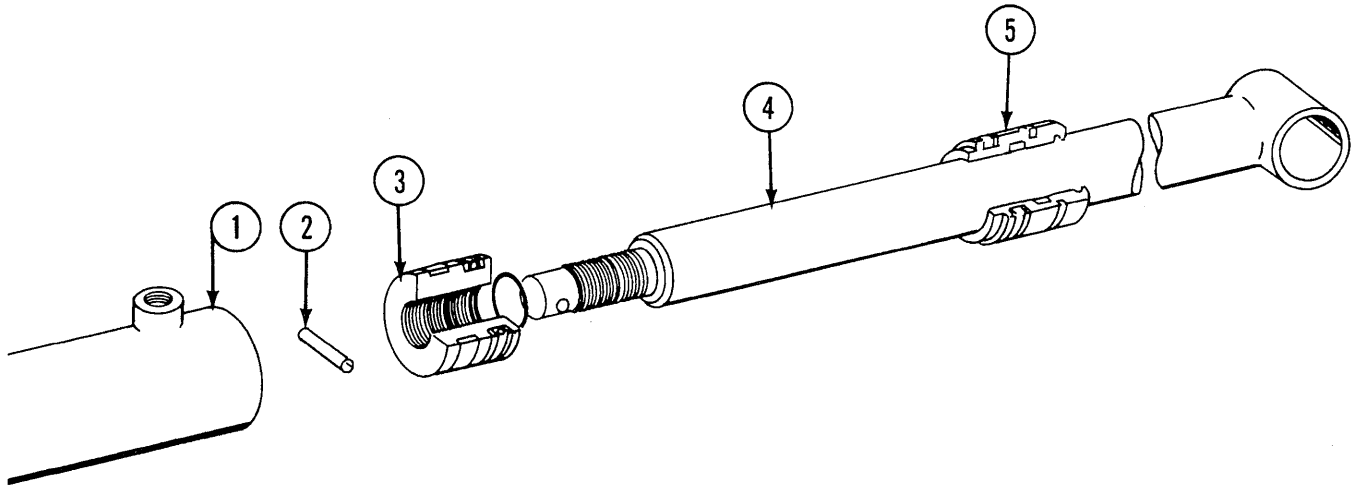
ITEM	PART NO.	DESCRIPTION
1.	R104	Tube Assembly
2.	R108	Piston
3.	R107	Head Gland
4.	R560	Shaft Assembly
5.	R374	Bushing
6.	R110	Wire Ring
7.	R106	Head Nut
	R111	Seal Kit, Includes (1) Wear Ring (3) O-Rings (4) BU Washer (1) Poly O-Ring
8.	R193	Clip
9.	R375	Pin
10.	10114	Set Screw, No. 10-32
A.	A232	Cylinder Complete, 4" x 10"

LOW PROFILE - DOUBLE FOLDING MARKER CYLINDER



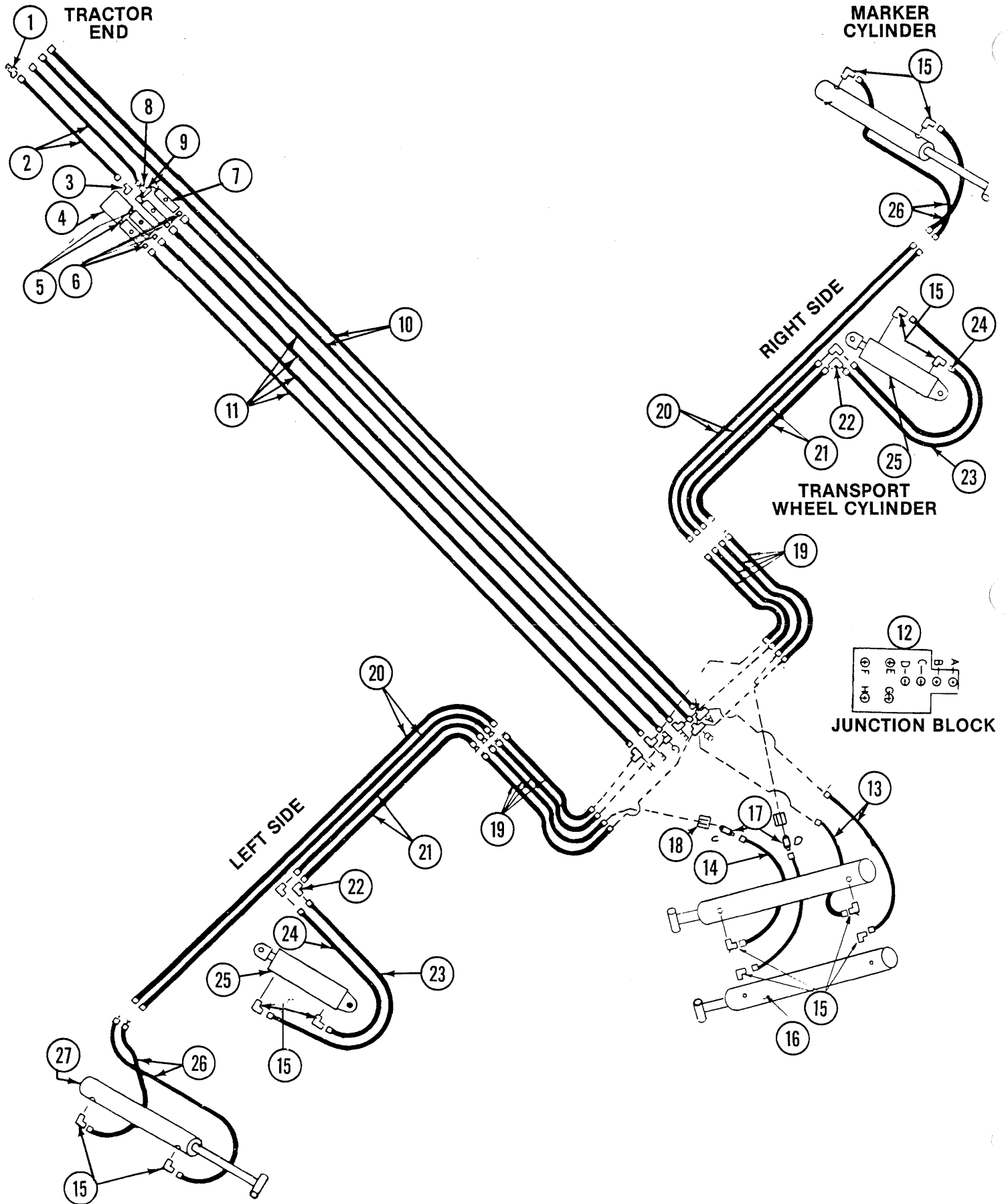
ITEM	PART NO.	DESCRIPTION
1.	R134	Tube Assembly
2.	R138	Hex Nut, 7/8" UNF
3.	R137	Piston
4.	R136	Head Gland
5.	R135	Shaft Assembly
	R139	Seal Kit, Includes: (4) O-Rings (3) BU Washer (1) Wiper (1) Lock Ring
A.	A233	Cylinder Complete, 2 1/2" x 20"

LOW PROFILE - TRIPLE FOLDING MARKER CYLINDER



ITEM	PART NO.	DESCRIPTION
1.	R112	Cylinder Tube Assembly
2.	10604	Roll Pin, 3/16" x 1 1/2"
3.	R115	Piston
4.	R113	Shaft Assembly
5.	R114	Head Gland
	R116	Seal Kit, Includes (4) O-Rings (3) BU Washer (1) Wiper (1) Lock Ring
A.	A234	Cylinder Complete, 3 1/2" x 20"

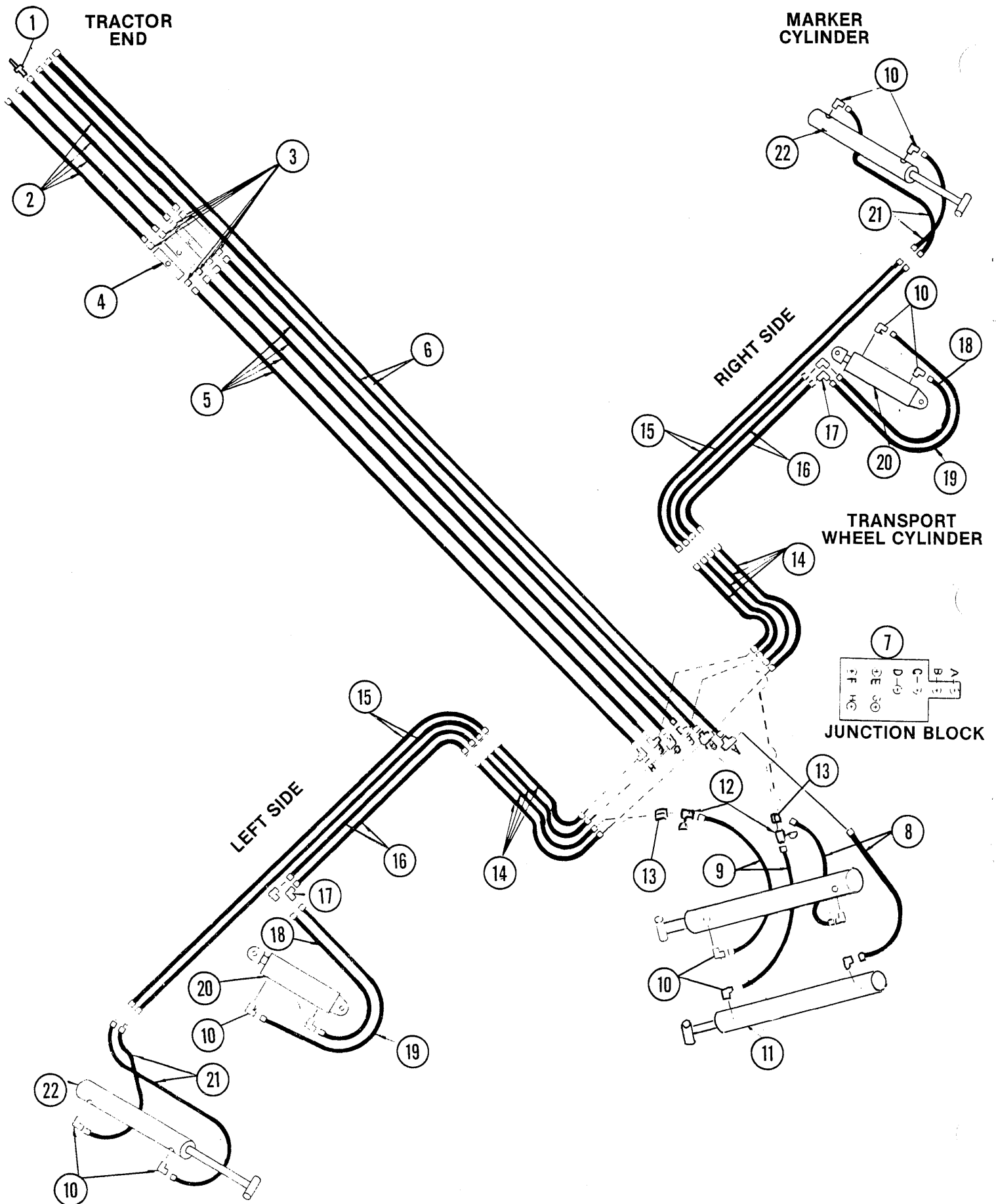
DUAL VALVE - SINGLE TRANSPORT WHEEL



DUAL VALVE - SINGLE TRANSPORT WHEEL

ITEM	PART NO.	DESCRIPTION
1.	D4086	Male Pioneer Tip
2.	A1023	Hose Assembly, 3/8" x 76"
3.	6801-8	Elbow, 90° Male
4.	A247	Valve, Solenoid
	A283	Valve, Solenoid
5.	6401-8-8	Adapter, Male O-Ring
6.	2404-8-8	Adapter, Male Straight
7.	A248	Valve, Flow Control
8.	2603-8	Tee, Tube
9.	6501-8-8	Adapter, 90°
10.	A1032	Hose Assembly, 3/8" x 240"
11.	A1013	Hose Assembly, 3/8" x 150"
12.	A186	Junction Block Weld
13.	A1020	Hose Assembly, 3/8" x 48"
14.	A1018	Hose Assembly, 3/8" x 40"
15.	2501-8-8	Elbow, 90°
16.	A230	Cylinder, Trunion, 2 1/2" x 50 3/16"
	A276	Cylinder, Trunion, 2 1/2" x 50"
17.	2700-8	Union, Bulkhead Tube
18.	306-8	Nut, Lock, 3/4" - 16
19.	A1022	Hose Assembly, 3/8" x 60"
20.	A1059	Hose Assembly, 3/8" x 130", 8R30
	A1061	Hose Assembly, 3/8" x 148", 8R Wide
	A1063	Hose Assembly, 3/8" x 190", 12R30
	A1065	Hose Assembly, 3/8" x 234", 12R Wide
21.	A1058	Hose Assembly, 3/8" x 122", 8R30
	A1060	Hose Assembly, 3/8" x 116", 8R Wide
	A1062	Hose Assembly, 3/8" x 152", 12R30
	A1064	Hose Assembly, 3/8" x 192", 12R Wide
22.	2500-8	Elbow, 90°
23.	A1021	Hose Assembly, 3/8" x 56"
24.	A1019	Hose Assembly, 3/8" x 44"
25.	A232	Cylinder, Lift, 4" x 10"
26.	A1004	Hose Assembly, 3/8" x 36"
27.	A233	Cylinder, Marker, 2 1/2" x 20"

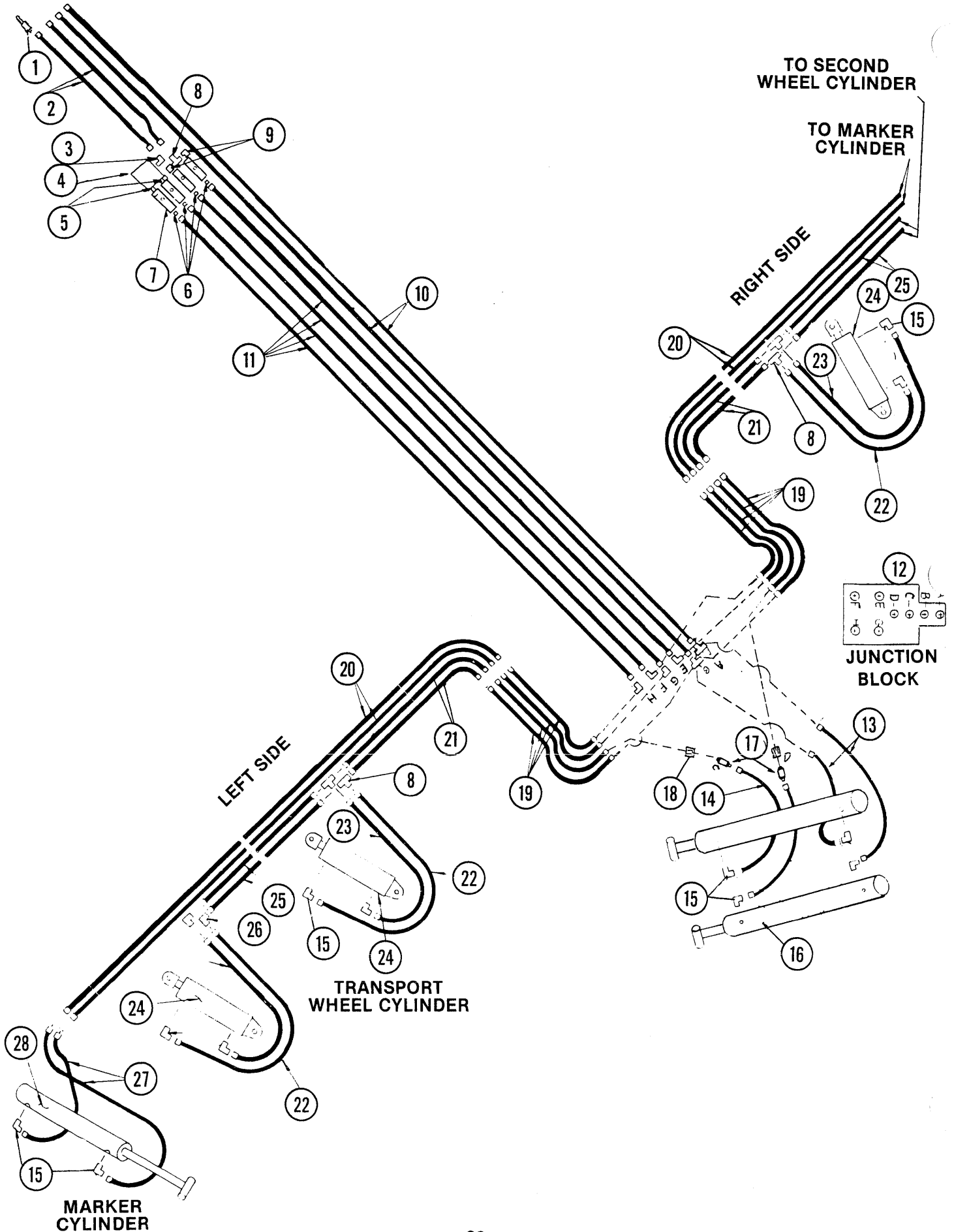
TRIPLE VALVE - SINGLE TRANSPORT WHEEL



TRIPLE VALVE - SINGLE TRANSPORT WHEEL

ITEM	PART NO.	DESCRIPTION
1.	D4086	Male Pioneer Tip
2.	A1023	Hose Assembly, 3/8" x 76"
3.	2404-8-8	Adapter, Male Straight
4.	A248	Valve, Flow Control
5.	A1013	Hose Assembly, 3/8" x 150"
6.	A1032	Hose Assembly, 3/8" x 240"
7.	A186	Junction Block Weld
8.	A1020	Hose Assembly, 3/8" x 48"
9.	A1018	Hose Assembly, 3/8" x 40"
10.	2501-8-8	Elbow, 90°
11.	A230	Cylinder, Trunion, 2 1/2" x 50 3/16"
	A276	Cylinder, Trunion, 2 1/2" x 50"
12.	2700-8	Union, Bulkhead Tube
13.	306-8	Nut, Lock, 3/4" - 16
14.	A1022	Hose Assembly, 3/8" x 60"
15.	A1059	Hose Assembly, 3/8" x 130", 8R30
	A1061	Hose Assembly, 3/8" x 148", 8R Wide
	A1063	Hose Assembly, 3/8" x 190", 12R30
	A1065	Hose Assembly, 3/8" x 234", 12R Wide
16.	A1058	Hose Assembly, 3/8" x 122", 8R30
	A1060	Hose Assembly, 3/8" x 116", 8R Wide
	A1062	Hose Assembly, 3/8" x 152", 12R30
	A1064	Hose Assembly, 3/8" x 192" Wide
17.	2500-8	Elbow, 90°
18.	A1019	Hose Assembly, 3/8" x 44"
19.	A1021	Hose Assembly, 3/8" x 56"
20.	A232	Cylinder, Lift, 4" x 10"
21.	A1004	Hose Assembly, 3/8" x 36"
22.	A233	Cylinder, Marker, 2 1/2" x 20"

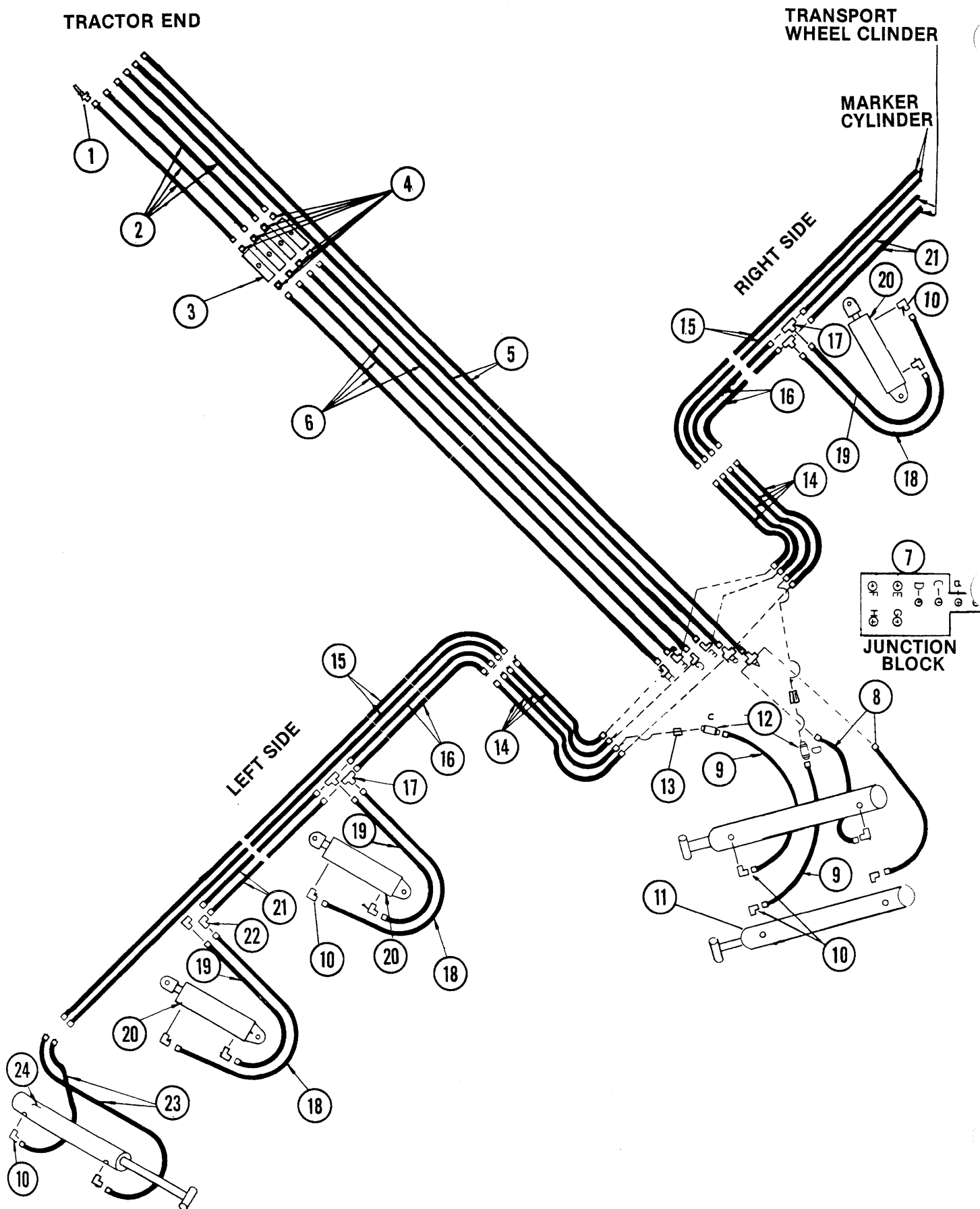
DUAL VALVE - DOUBLE TRANSPORT WHEEL



DUAL VALVE - DOUBLE TRANSPORT WHEEL

ITEM	PART NO.	DESCRIPTION
1.	D4086	Male Pioneer Tip
2.	A1023	Hose Assembly, 3/8" x 76"
3.	6801-8	Elbow, 90° Male
4.	A247	Valve, Solenoid
	A283	Valve, Solenoid
5.	6401-8-8	Adapter, Male O-Ring
6.	2404-8-8	Adapter, Male Straight
7.	A248	Valve, Flow Control
8.	2603-8	Tee, Tube
9.	6501-8-8	Adapter, 90°
10.	A1032	Hose Assembly, 3/8" x 240", 16R30
	A1035	Hose Assembly, 3/8" x 276", 16R Wide, 18R30, 24R30
11.	A1013	Hose Assembly, 3/8" x 150", 16R30
	A1028	Hose Assembly, 3/8" x 186", 16R Wide, 18R30, 24R30
12.	A186	Junction Block Weld
13.	A1020	Hose Assembly, 3/8" x 48"
14.	A1018	Hose Assembly, 3/8" x 40"
15.	2501-8-8	Elbow, 90°
16.	A231	Cylinder, Trunion, 3" x 50 5/16"
17.	2700-8	Union, Bulkhead Tube
18.	306-8	Nut, Lock, 3/4" - 16
19.	A1022	Hose Assembly, 3/8" x 60"
20.	A1066	Hose Assembly, 3/8" x 250", 16R30
	A1069	Hose Assembly, 3/8" x 280", 18R30
	A1067	Hose Assembly, 3/8" x 310", 16R Wide
	A1071	Hose Assembly, 3/8" x 370", 24R30
21.	A1062	Hose Assembly, 3/8" x 152", 16R30
	A1068	Hose Assembly, 3/8" x 182", 18R30
	A1064	Hose Assembly, 3/8" x 192", 16R Wide
	A1070	Hose Assembly, 3/8" x 272", 24R30
22.	A1021	Hose Assembly, 3/8" x 56"
23.	A1019	Hose Assembly, 3/8" x 44"
24.	A232	Cylinder, Lift, 4" x 10"
25.	A1022	Hose Assembly, 3/8" x 60", 16R30, 18R30, 24R30
	A1030	Hose Assembly, 3/8" x 192", 16R Wide
26.	2500-8	Elbow, 90°
27.	A1004	Hose Assembly, 3/8" x 36"
28.	A233	Cylinder, Marker, 2 1/2" x 20, 16R30
	A234	Cylinder, Marker, 3 1/2" x 20, 18R30, 16R Wide, 24R30

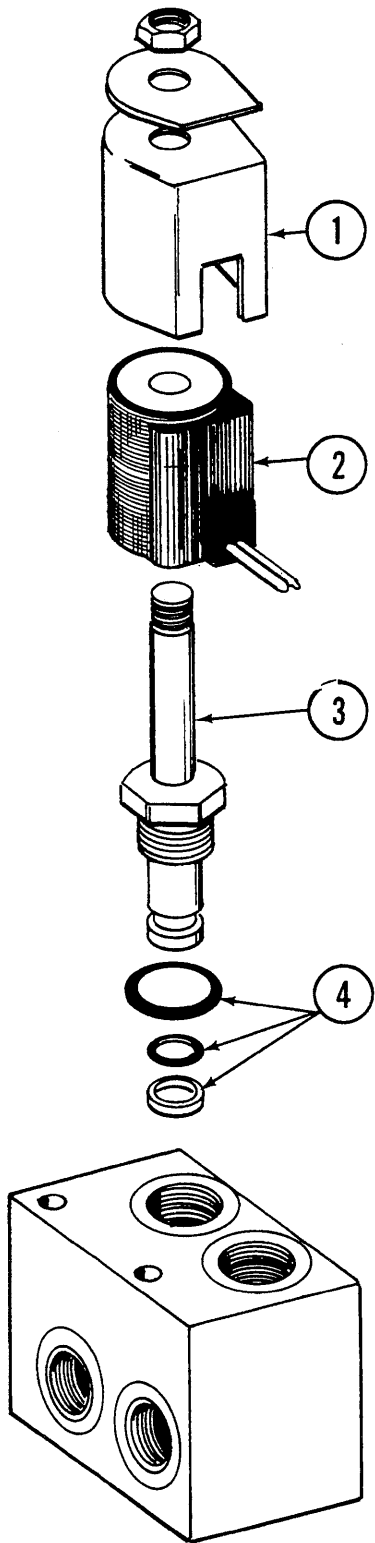
TRIPLE VALVE - DOUBLE TRANSPORT WHEEL



TRIPLE VALVE - DOUBLE TRANSPORT WHEEL

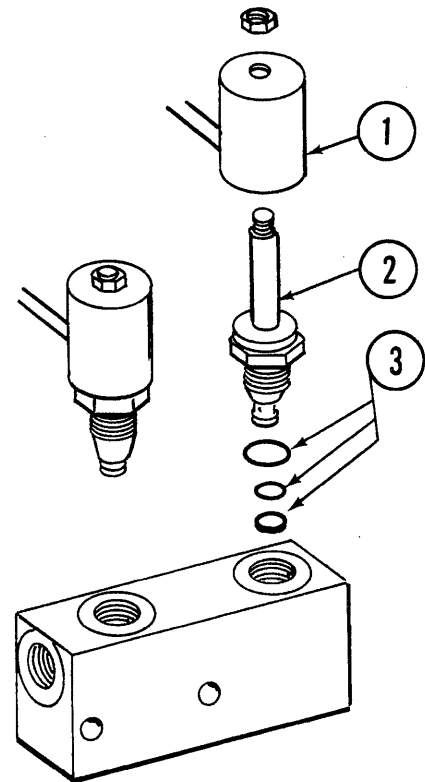
ITEM	PART NO.	DESCRIPTION
1.	D4086	Male Pioneer Tip
2.	A1023	Hose Assembly, 3/8" x 76"
3.	A248	Valve, Flow Control
4.	2404-8-8	Adapter, Male Straight
5.	A1032	Hose Assembly, 3/8" x 240", 16R30
	A1035	Hose Assembly, 3/8" x 276", 16R Wide, 18R30, 24R30
6.	A1013	Hose Assembly, 3/8" x 150", 16R30
	A1028	Hose Assembly, 3/8" x 186", 16R Wide, 18R30, 24R30
7.	A186	Junction Block Weld
8.	A1020	Hose Assembly, 3/8" x 48"
9.	A1018	Hose Assembly, 3/8" x 40"
10.	2501-8-8	Elbow, 90°
11.	A231	Cylinder, Trunion, 3" x 50 5/16"
12.	2700-8	Union, Bulkhead Tube
13.	306-8	Nut, Lock, 3/4" - 16
14.	A1022	Hose Assembly, 3/8" x 60"
15.	A1066	Hose Assembly, 3/8" x 250", 16R30
	A1069	Hose Assembly, 3/8" x 280", 18R30
	A1067	Hose Assembly, 3/8" x 310", 16R Wide
	A1071	Hose Assembly, 3/8" x 370", 24R30
16.	A1062	Hose Assembly, 3/8" x 152", 16R30
	A1068	Hose Assembly, 3/8" x 182", 18R30
	A1064	Hose Assembly, 3/8" x 192", 16R Wide
	A1070	Hose Assembly, 3/8" x 272", 24R30
17.	2603-8	Tee, Tube
18.	A1021	Hose Assembly, 3/8" x 56"
19.	A1019	Hose Assembly, 3/8" x 44"
20.	A232	Cylinder, Lift, 4" x 10"
21.	A1022	Hose Assembly, 3/8" x 60", 16R30, 18R30, 24R30
	A1030	Hose Assembly, 3/8" x 192", 16R Wide
22.	2500-8	Elbow, 90°
23.	A1004	Hose Assembly, 3/8" x 36"
24.	A233	Cylinder, Marker, 2 1/2" x 20, 16R30
	A234	Cylinder, Marker, 3 1/2" x 20, 16R Wide, 18R30, 24R30

DELTA SOLENOID VALVE



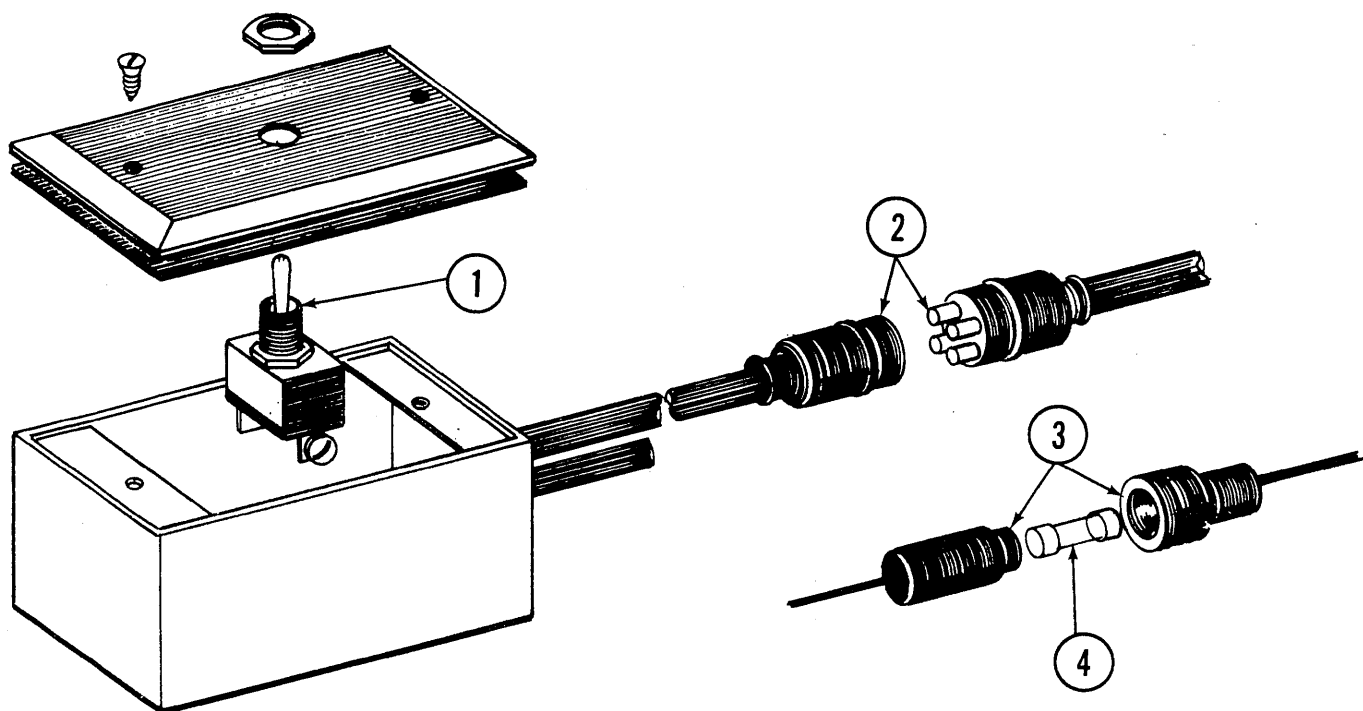
ITEM	PART NO.	DESCRIPTION
1.	R507	Coil Housing
2.	R506	Coil w/yellow wires
3.	R505	Cartridge
4.	R504	Seal Kit
A.	A283	Solenoid Valve, Complete

POWERMATE SOLENOID VALVE



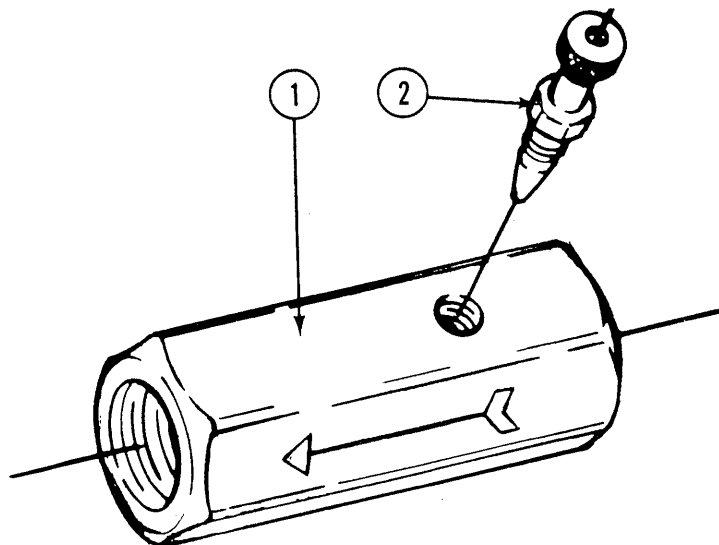
ITEM	PART NO.	DESCRIPTION
1.	R147	Coil w/red wires
2.	R148	Cartridge
3.	R149	Seal Kit
A.	A247	Solenoid Valve, Complete

TWO VALVE ELECTRICAL KIT



ITEM	PART NO.	DESCRIPTION
1.	A533	Toggle Switch, 3 Position
2.	A1911	4 Prong Trailer Connector
3.	A1917	Fuse Holder
4.		10 AMP Fuse
A.	A838	2 Valve Electrical Kit w/Wiring Harness, Less Solenoid Valve

FLOW CONTROL VALVE



ITEM	PART NO.	DESCRIPTION
1.	A248	Flow Control Valve Assembly (KLF 500)
2.	R101	Needle Valve Assembly

HEX DRILL SHAFTS

9/16" HEX DRILL SHAFTS (D739-XX)

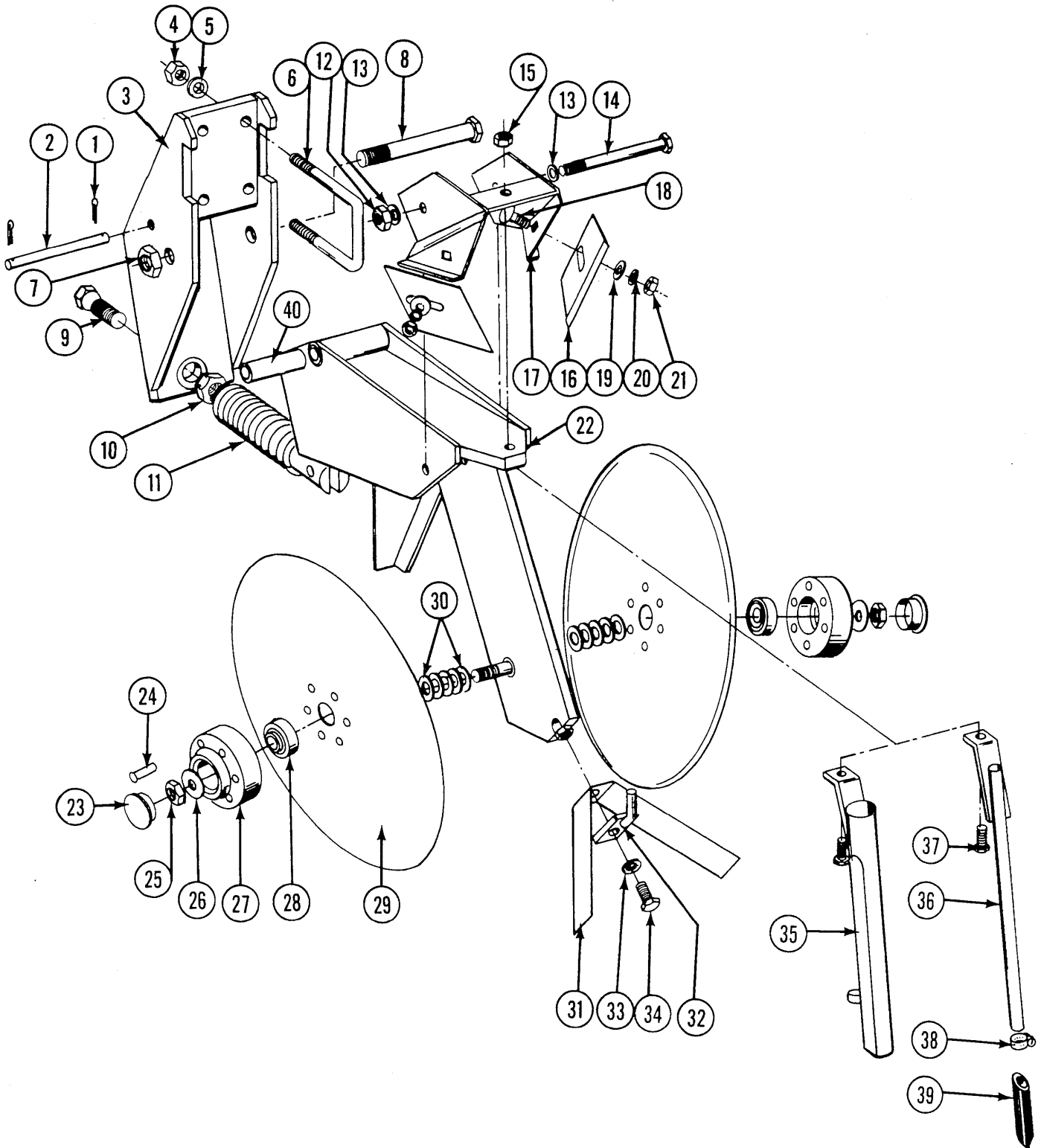
Planter Size	Left Wing		Right Wing	
	Inner	Outer	Inner	Outer
8 -Row 30"	37"	47"	47"	37"
8 -Row Wide	48"	60"	60"	48"
12-Row 30"	67"	77"	77"	67"
12-Row Wide	86"	98"	98"	86"
16-Row 30"	66"	137"	77"	127"
18-Row 30"	127"	107"	137"	98"
16-Row Wide	127"	137"	137"	127"
20-Row 30"	127"	137"	137"	127"
24-Row 30"	157"	167"	167"	157"

7/8" HEX SHAFTS (D914-XX)

Planter Size	Left Wing	Right Wing	Wheel to Wheel Shaft
8-Row 30"	55"	65"	---
8-Row Wide	33"	43"	---
12-Row 30"	55"	65"	---
12-Row Wide	71"	81"	---
16-Row 30"	55"	65"	60" Both Sides
18-Row 30"	25"	35"	60" Both Sides
16-Row Wide	33"	43"	76" Both Sides
20-Row 30"	55"	65"	60" Both Sides
24-Row 30"	85"	95"	60" Both Sides

NOTE: Special compact marker assembly requires an additional 30" on each wing.

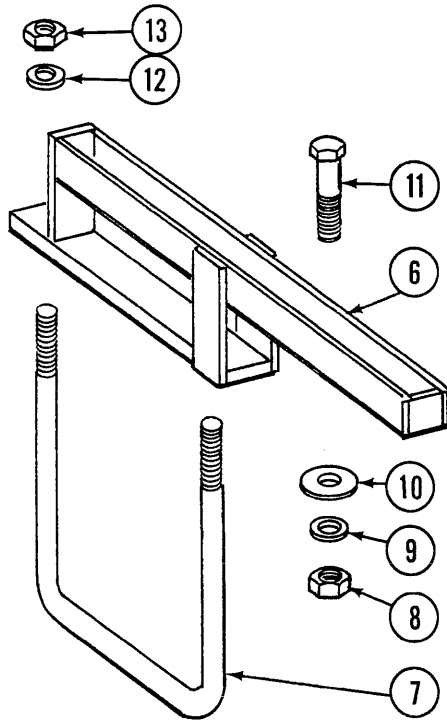
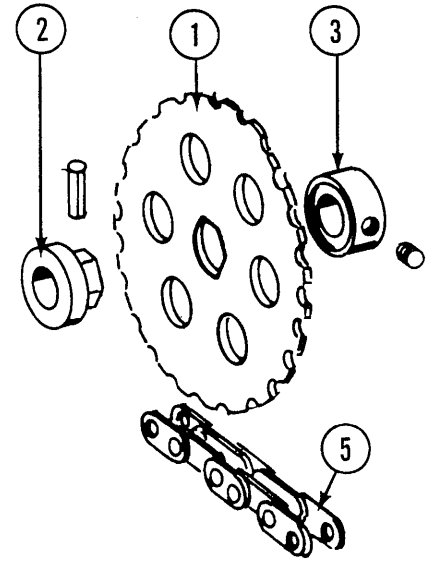
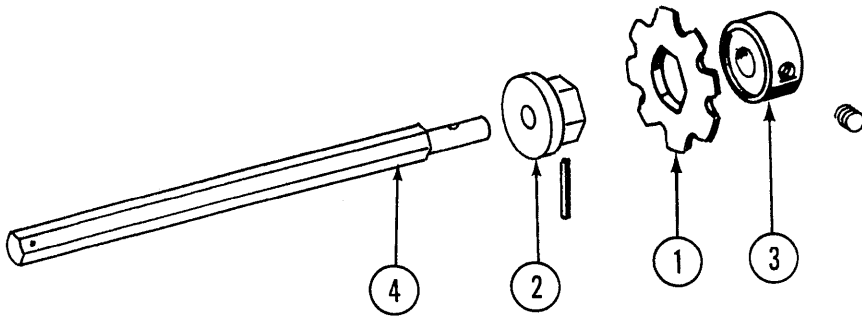
DOUBLE DISK FERTILIZER OPENER



DOUBLE DISK FERTILIZER OPENER

ITEM	PART NO.	DESCRIPTION
1.	10451	Cotter Pin, 1/8" x 1"
2.	D1657	Lock Up Pin
3.	A785	Mounting Bracket Weld
4.	10102	Hex Nut, 1/2" - 13
5.	10228	Lockwasher, 1/2"
6.	D1138	U-Bolt, 2 1/2" x 2 1/2" x 1/2" - 13
7.	10107	Hex Lock Nut, 5/8" - 11
8.	10046	HHCS, 5/8" - 11 x 5"
9.	D962	Hex Head Adjusting Bolt, 5/8" - 18
10.	10499	Jam Nut, 5/8" - 18
11.	A328	Spring
12.	10111	Lock Nut, 1/2" - 13
13.	10216	Flatwasher, 1/2"
14.	10045	HHCS, 1/2" - 13 x 4 1/2"
15.	10109	Hex Lock Nut, 5/16" - 18
16.	D1673	Scraper
17.	A810	Scraper Mount
18.	10305	Carriage Bolt, 3/8" - 16 x 1"
19.	10210	Flat Washer, 3/8" USS
20.	10229	Lockwasher, 3/8"
21.	10101	Hex Nut, 3/8" - 16
22.	A308	Fertilizer Opener Weld
23.	D1132	Hub Cap
24.	10651	Rivet, 1/2" x 1 3/8"
25.	10503	Jam Nut, R.H. 5/8" -11
	10504	Jam Nut, L.H. 5/8" - 11
26.	10217	Washer, 5/8" USS
27.	B134	Bearing Hub
28.	A2014	Bearing
29.	D1030	Disk Blade
30.	10213	Machine Bushing, 1 3/64 x 11/16 x .030
31.	D2589	Scraper, Inner
32.	A312	Mount, Tube, Weld
33.	10232	Lockwasher, 5/16"
34.	10019	HHCS, 5/16" - 18 x 1"
35.	A310	Drop Tube, Dry Fertilizer
36.	A318	Drop Tube, Liquid Fertilizer
37.	10133	HHCS, 5/16" - 18 x 1 1/2"
38.	10673	Hose Clamp
39.	D1797	Drop Tube Extension
40.	D487	Bushing
A.	A320	Disk and Brg. Assembly (Items 24, 27-29)
B.	A786	Double Disk Fertilizer Opener, Less Drop Tubes and U-Bolts

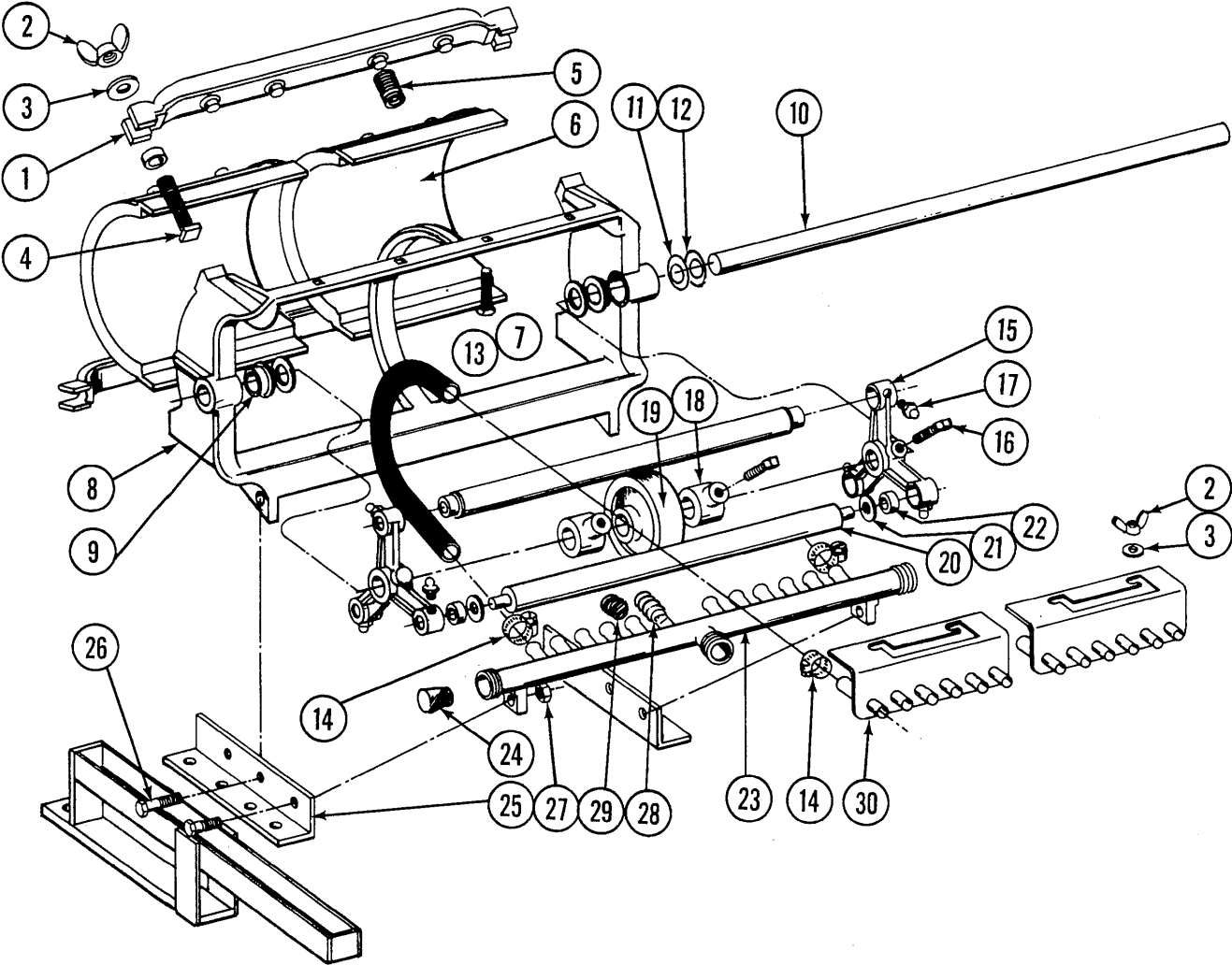
LIQUID FERTILIZER DRIVE



LIQUID FERTILIZER DRIVE

ITEM	PART NO.	DESCRIPTION
1.	D1217	Sprocket, 8 Tooth (1)
	D1218	Sprocket, 9 Tooth (1)
	D1219	Sprocket, 10 Tooth (1)
	D1220	Sprocket, 15 Tooth (1)
	D1221	Sprocket, 22 Tooth (1)
	D1222	Sprocket, 23 Tooth (1)
	D1223	Sprocket, 26 Tooth (1)
	D1224	Sprocket, 30 Tooth (1)
	D1225	Sprocket, 31 Tooth (1)
2.	D1216	Sprocket Adapter
	10600	Roll Pin, 5/16" x 2 1/4"
3.	D1215	Sprocket Retainer
4.	D1194	Shaft, Top Transmission, 13 1/2"
5.	3300-44	Chain, No. 2040, Includes Connector Link
	3300-12	Chain, No. 2040, (Add when using large sprocket combinations)
	R194	Connector Link, No. 2040
6.	A258	Squeeze Pump Mounting Bracket
7.	D1114	U-Bolt, 7" x 7" x 5/8" - 11
8.	10100	Hex Nut, 7/16" - 14
9.	10237	Lock Washer, 7/16"
10.	10199	Flat Washer, 7/16" SAE
11.	10066	HHCS 7/16" - 14 x 2"
12.	10230	Lockwasher, 5/8"
13.	10104	Hex Nut, 5/8" - 11

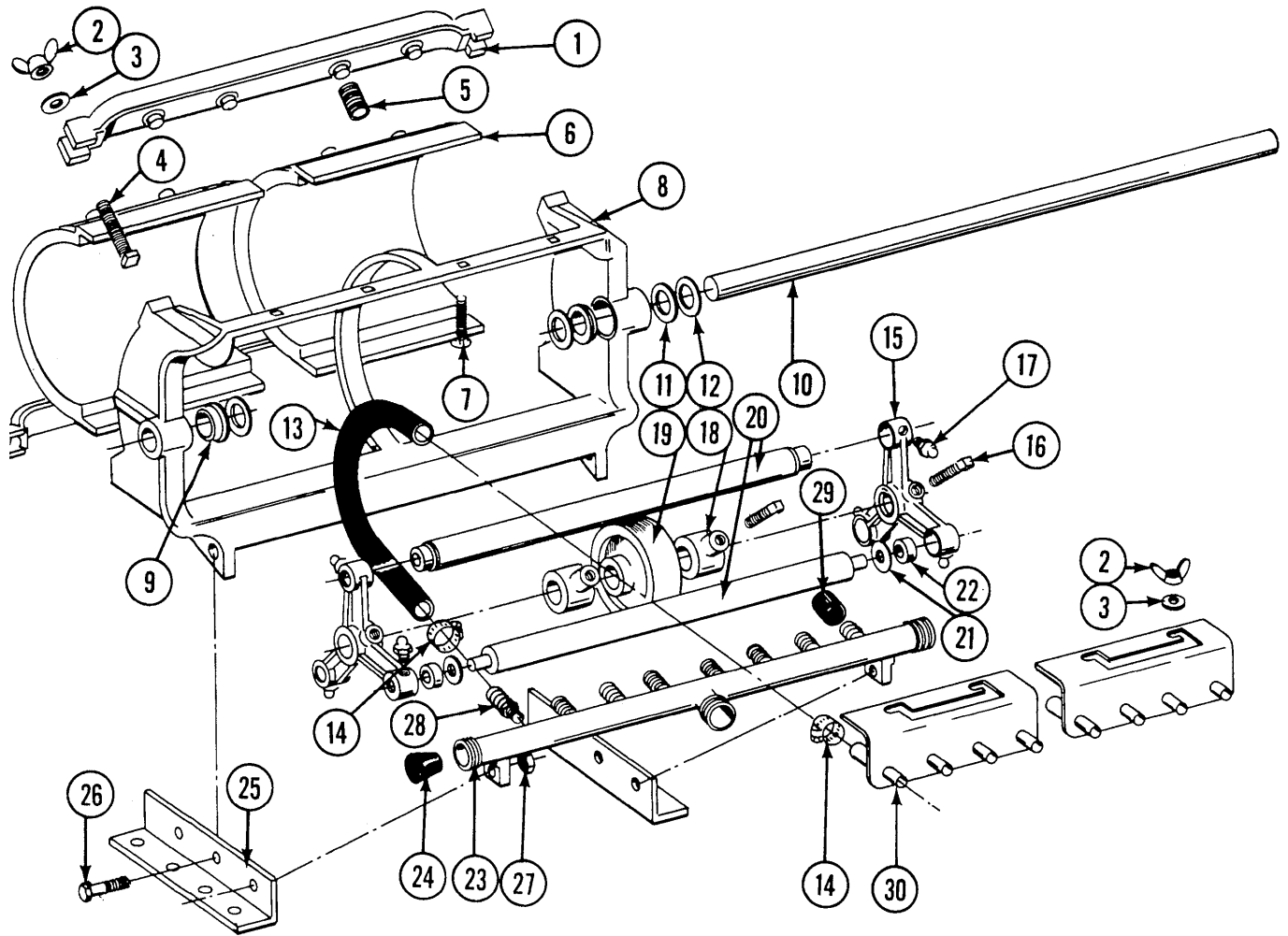
LIQUID FERTILIZER SQUEEZE PUMP - 24 ROW MODEL



LIQUID FERTILIZER SQUEEZE PUMP - 24 ROW MODEL

ITEM	PART NO.	DESCRIPTION
1.	R221	Spring Anchor Bar
2.	10144	Wing Nut, 5/16" - 18
3.	10219	Flat Washer, 5/16"
4.	10130	Square Head Machine Bolt, 5/16" - 18 x 1 3/4"
5.	R214	Back Spring
6.	R212	Back Plate
7.	10303	Round Head Machine Bolt 5/16" - 18 x 1"
8.	R222	Pump Frame
9.	R207	Bushing, Nylon
10.	R220	Pump Shaft
11.	R225	Shim, 1/32"
12.	R226	Shim, 3/64"
13.	R215	Metering Hose, 1/2" x 13"
14.	10681	Hose Clamp
15.	R231	Roller Arm
16.	10131	Set Screw, 5/16" - 18 x 3/4"
17.	10640	Grease Fitting, 1/4" - 28
18.	R282	Set Collar
19.	R281	Back Up Roller
20.	R283	Roller
21.	R229	Washer, Nylon
22.	R230	Bearing, Roller
23.	R566	Intake Manifold
24.	R217	Manifold Plug
25.	R279	Base Angle, Left
	R280	Base Angle, Right
26.	10004	HHCS, 3/8" - 16 x 1 1/4"
27.	10101	Hex Nut, 3/8" - 16
28.	R232	Hose Adapter
29.	R211	Rubber Cap
30.	R565	Discharge Manifold
A.	A324	Squeeze Pump Complete, 12 Rows

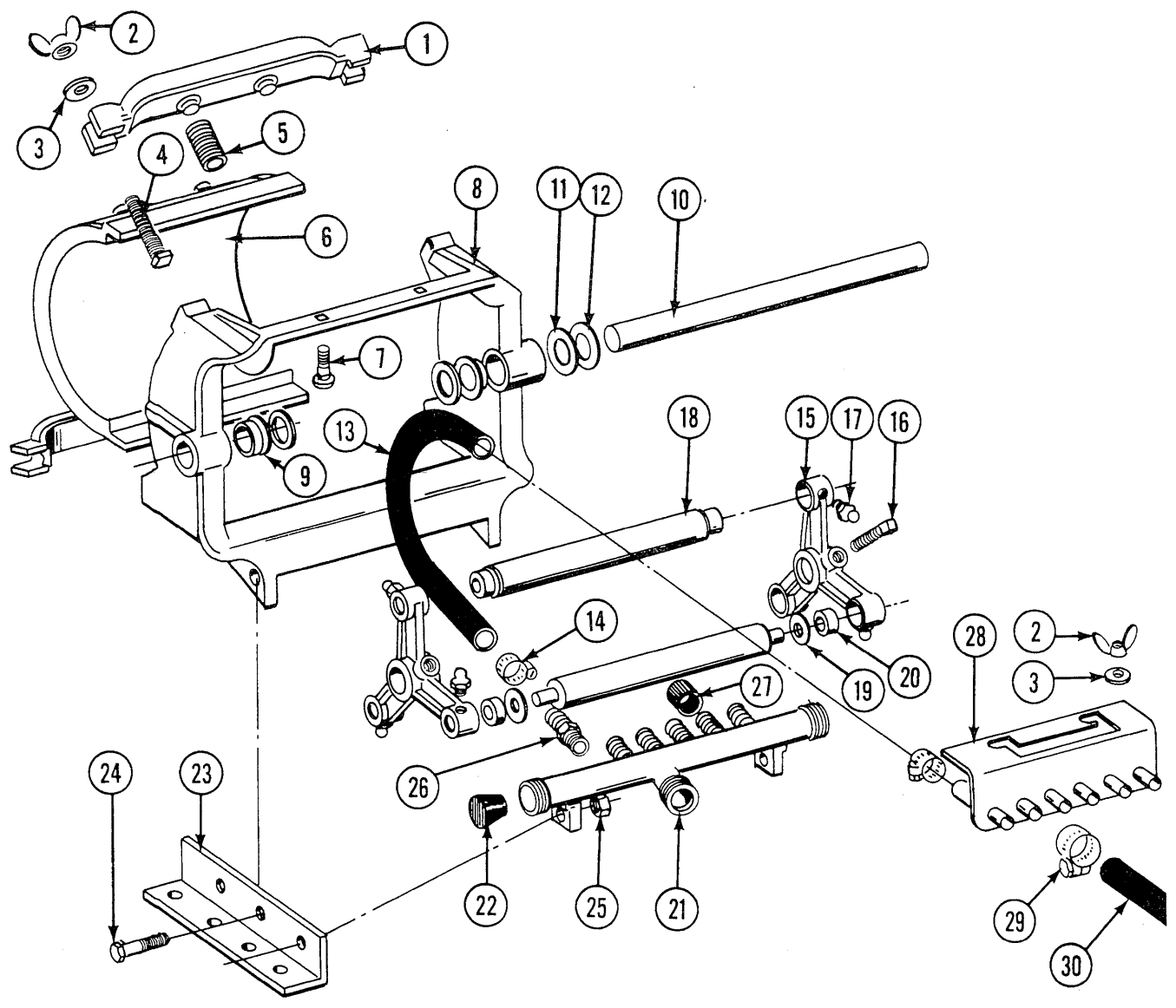
LIQUID FERTILIZER SQUEEZE PUMP - 16 ROW MODEL



LIQUID FERTILIZER SQUEEZE PUMP - 16 ROW MODEL

ITEM	PART NO.	DESCRIPTION
1.	R221	Spring Anchor Bar
2.	10144	Wing Nut, 5/16" - 18
3.	10219	Flat Washer, 5/16"
4.	10130	Square Head Machine Bolt, 5/16" - 18 x 1 3/4"
5.	R214	Back Spring
6.	R212	Back Plate
7.	10303	Round Head Machine Bolt 5/16" - 18 x 1"
8.	R222	Pump Frame
9.	R207	Bushing, Nylon
10.	R220	Pump Shaft
11.	R225	Shim, 1/32"
12.	R226	Shim, 3/64"
13.	R215	Metering Hose, 1/2" x 13"
14.	10681	Hose Clamp
15.	R231	Roller Arm
16.	10131	Set Screw, 5/16" - 18 x 3/4"
17.	10640	Grease Fitting, 1/4" - 28
18.	R282	Set Collar
19.	R281	Back Up Roller
20.	R283	Roller
21.	R229	Washer, Nylon
22.	R230	Bearing Roller
23.	R284	Intake Manifold
24.	R217	Manifold Plug
25.	R279	Base Angle, Left
	R280	Base Angle, Right
26.	10004	HHCS, 3/8" - 16 x 1 1/4"
27.	10101	Hex Nut, 3/8" - 16
28.	R232	Hose Adapter
29.	R211	Rubber Cap
30.	R236	Discharge Manifold
A.	A323	Squeeze Pump Complete, 8 Rows

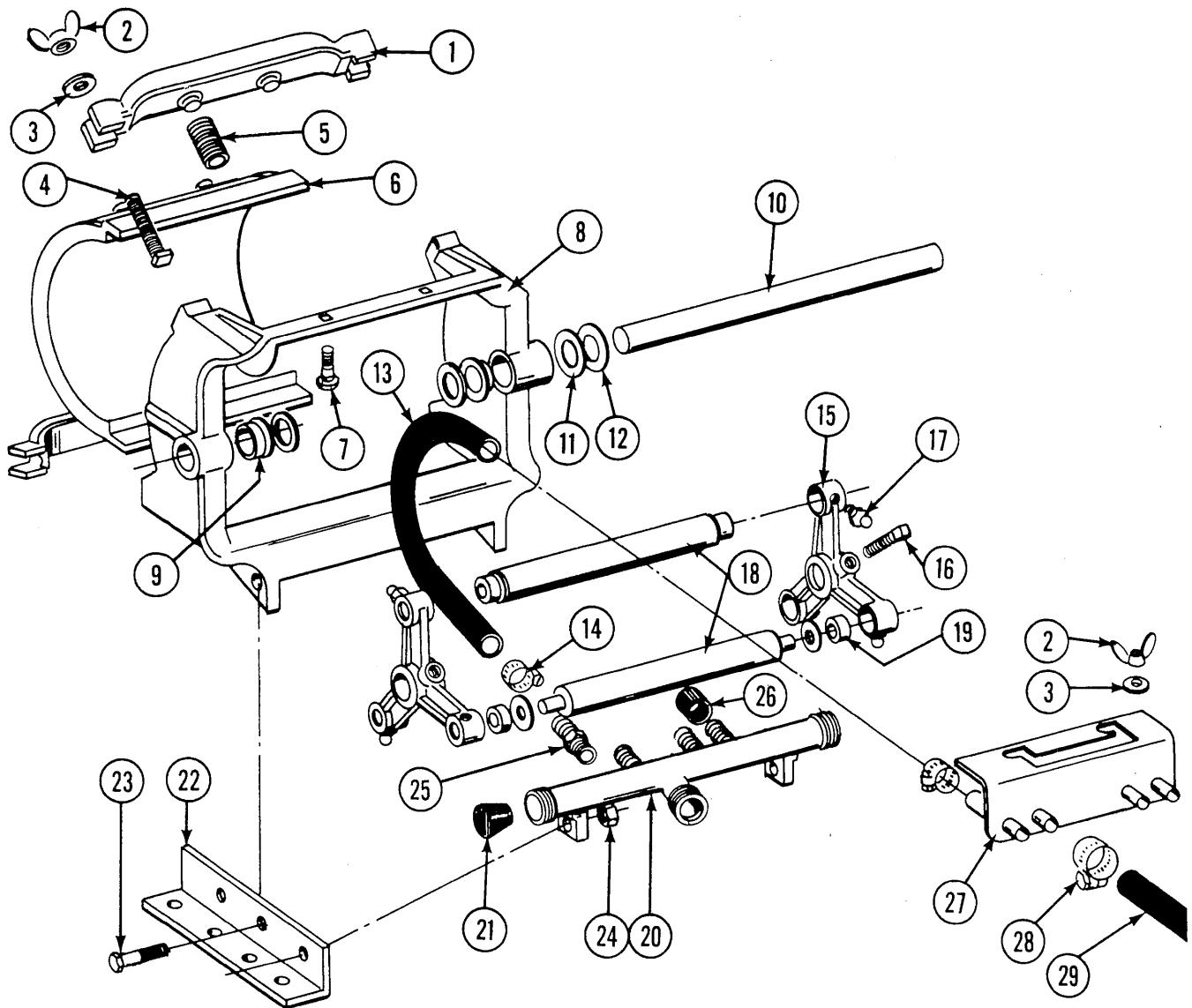
LIQUID FERTILIZER SQUEEZE PUMP - 12 ROW MODEL



LIQUID FERTILIZER SQUEEZE PUMP - 12 ROW MODEL

ITEM	PART NO.	DESCRIPTION
1.	R216	Spring Anchor Bar
2.	10144	Wing Nut, 5/16" - 18
3.	10219	Flat Washer, 5/16"
4.	10130	Square Head Machine Bolt, 5/16" - 18 x 1 3/4"
5.	R214	Back Spring
6.	R212	Back Plate
7.	10303	Round Head Machine Bolt, 5/16" - 18 - 1"
8.	R208	Pump Frame
9.	R207	Bushing, Nylon
10.	R210	Pump Shaft
11.	R225	Shim, 1/32"
12.	R226	Shim, 3/64"
13.	R215	Metering Hose, 1/2" x 13"
14.	10681	Hose Clamp
15.	R231	Roller Arm
16.	10131	Set Screw, 5/16" - 18 x 3/4"
17.	10640	Grease Fitting, 1/4" - 28
18.	R233	Roller
19.	R229	Washer, Nylon
20.	R230	Bearing, Roller
21.	R228	Intake Manifold
22.	R217	Manifold Plug
23.	R213	Base Angle
24.	10004	HHCS, 3/8" - 16 x 1 1/4"
25.	10101	Hex Nut, 3/8" - 16
26.	R232	Hose Adapter
27.	R211	Rubber Cap
28.	R224	Discharge Manifold
29.	10673	Hose Clamp, No. 8
30.	4300-6	Hose, 1/2" x 160'
A.	A322	Squeeze Pump Complete, 6 Rows

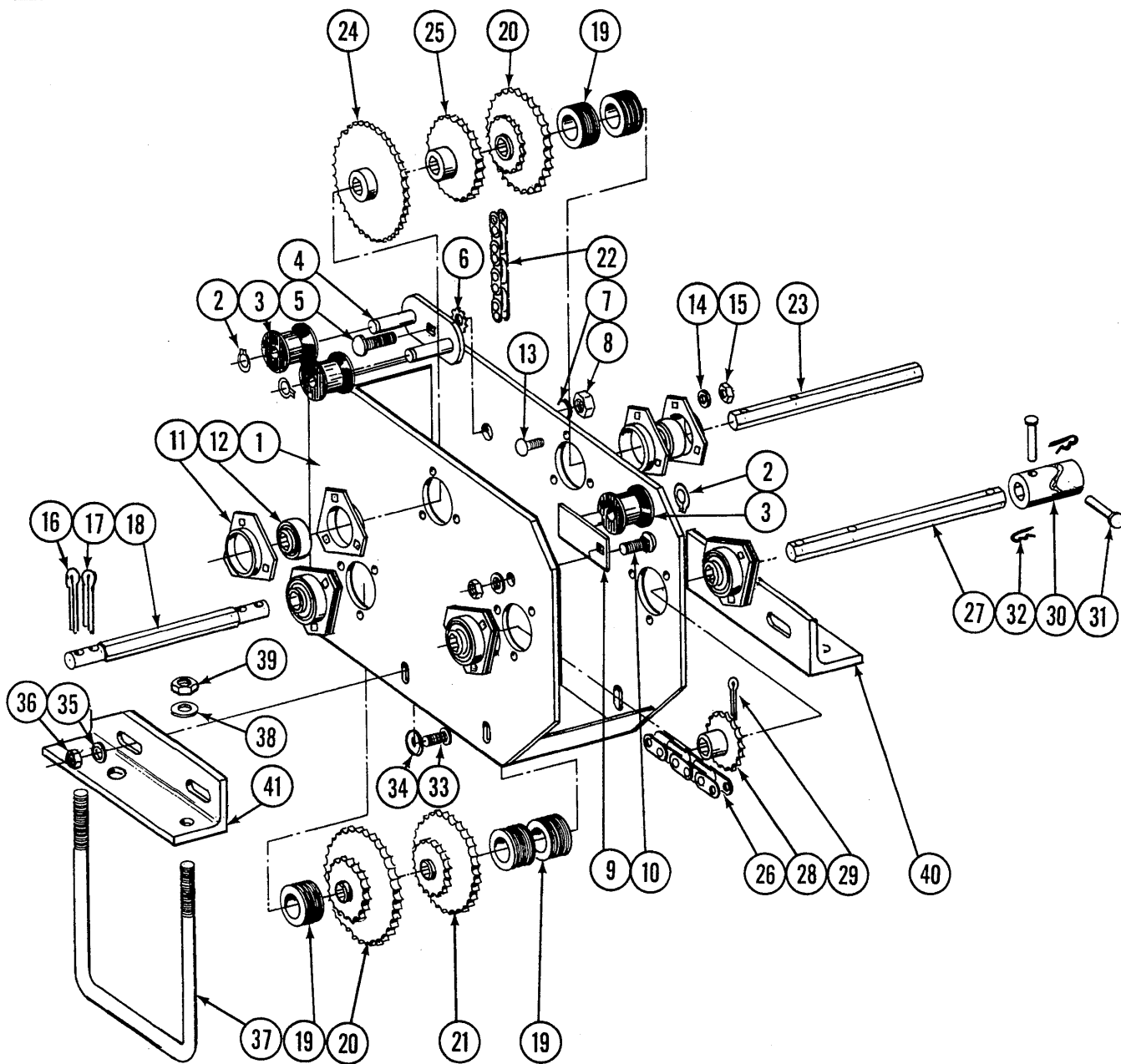
LIQUID FERTILIZER SQUEEZE PUMP - 8 ROW MODEL



LIQUID FERTILIZER SQUEEZE PUMP - 8 ROW MODEL

ITEM	PART NO.	DESCRIPTION
1.	R216	Spring Anchor Bar
2.	10144	Wing Nut, 5/16" - 18
3.	10219	Flat Washer, 5/16" USS
4.	10130	Sq. Head Machine Bolt, 5/16" - 18 x 1 3/4"
5.	R214	Back Spring
6.	R212	Back Plate
7.	10303	Round Head Machine Bolt, 5/16" - 18 x 1"
8.	R208	Pump Frame
9.	R207	Bushing (Nylon)
10.	R210	Pump Shaft
11.	R225	Shim 1/32"
12.	R226	Shim, 3/64"
13.	R215	Metering Hose, 1/2" x 13"
14.	10681	Hose Clamp
15.	R223	Roller Arm
16.	10131	Set Screw, 5/16" - 18 x 3/4"
17.	10640	Grease Fitting, 1/4" - 28
18.	R209	Roller
19.	R227	Bushing, Nylon
20.	R228	Intake Manifold
21.	R217	Manifold Plug
22.	R213	Base Angle
23.	10004	HHCS, 3/8" - 16 x 1 1/4"
24.	10101	Hex Nut, 3/8" - 16
25.	R232	Hose Adapter
26.	R211	Rubber Cap
27.	R224	Discharge Manifold
28.	10673	Hose Clamp, No. 8
29.	4300-5	Hose, 1/2" x 100'
A.	A321	Squeeze Pump Complete, 4 Rows

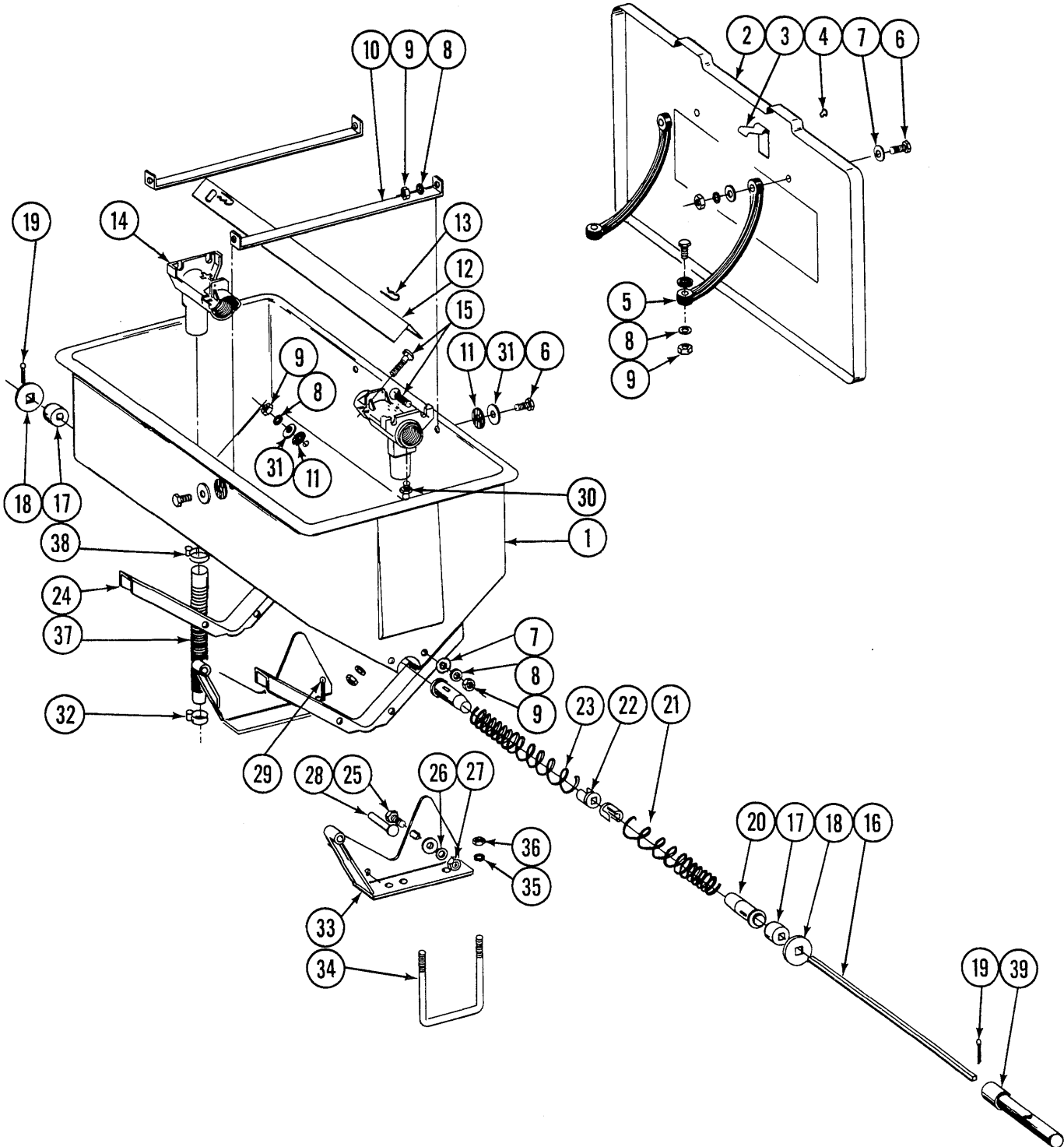
DRY FERTILIZER TRANSMISSION



DRY FERTILIZER TRANSMISSION

ITEM	PART NO.	DESCRIPTION
1.	A749	Transmission Case
2.	10435	Ring, Retainer
3.	D1067	Spool, Idler
4.	A285	Bracket, Idler
5.	10314	Carriage Bolt, 1/4" - 13 x 3"
6.	10527	Lockwasher, Internal/External, 1/2"
7.	10228	Lockwasher, 1/2"
8.	10102	Nut, 1/2" - 13
9.	A290	Idler Weld
10.	10313	Carriage Bolt, 1/2" - 13 x 1 1/2"
11.	3400-1	Flangette
12.	2100-3	Bearing, 7/8" Hex Bore
13.	10312	Carriage Bolt, 5/16" - 18 x 3/4"
14.	10232	Lockwasher, 5/16"
15.	10106	Hex Nut, 5/16" - 18
16.	10462	Cotter Pin, 3/16" x 2"
17.	10460	Cotter Pin, 1/4" x 2"
18.	D943	Shaft, Driven, 7/8" x 9"
19.	D832	Spacer, Rubber
20.	2500-12	Sprocket, 18-36 Tooth
21.	2500-3	Sprocket, 16-30 Tooth
22.	3300-37	Chain, No. 2040, 37 Links, including Connector and Offset Link
	R194	Connector Link, No. 2040
	R199	Offset Link, No. 2040
23.	D1236	Shaft, 7/8" x 8 1/2"
24.	2500-15	Sprocket, 32 Tooth
25.	2500-14	Sprocket, 24 Tooth
26.	3300-26	Chain, No. 2040, 26 Links, including Connector Link
27.	D953	Shaft, 7/8" x 10 1/2"
28.	2500-16	Sprocket, 16 Tooth
29.	10465	Cotter Pin, 1/4" x 1 1/4"
30.	D1269	Coupler, 8R Wide
	D1258	Coupler, 12R30
	D2630	Coupler, 12R Wide
31.	10558	Clevis Pin, 5/16" x 1 3/4"
32.	10456	Cotter Pin, 1/8" x 3/4"
33.	10301	Carriage Bolt, 3/8" - 16 x 1 1/2"
34.	10210	Flat Washer, 3/8"
35.	10229	Lock Washer, 3/8"
36.	10101	Hex Nut, 3/8" - 16
37.	D1114	U-Bolt, 7" x 7" x 5/8" - 11
38.	10230	Lockwasher, 5/8"
39.	10104	Hex Nut, 5/8" - 11
40.	D948R	Mounting Angle, R.H.
41.	D948L	Mounting Angle, L.H.
A.	A284	Idler Assembly, (Items 2 thru 4)
B.	A291	Idler Assembly, (Items 2, 3, and 9)

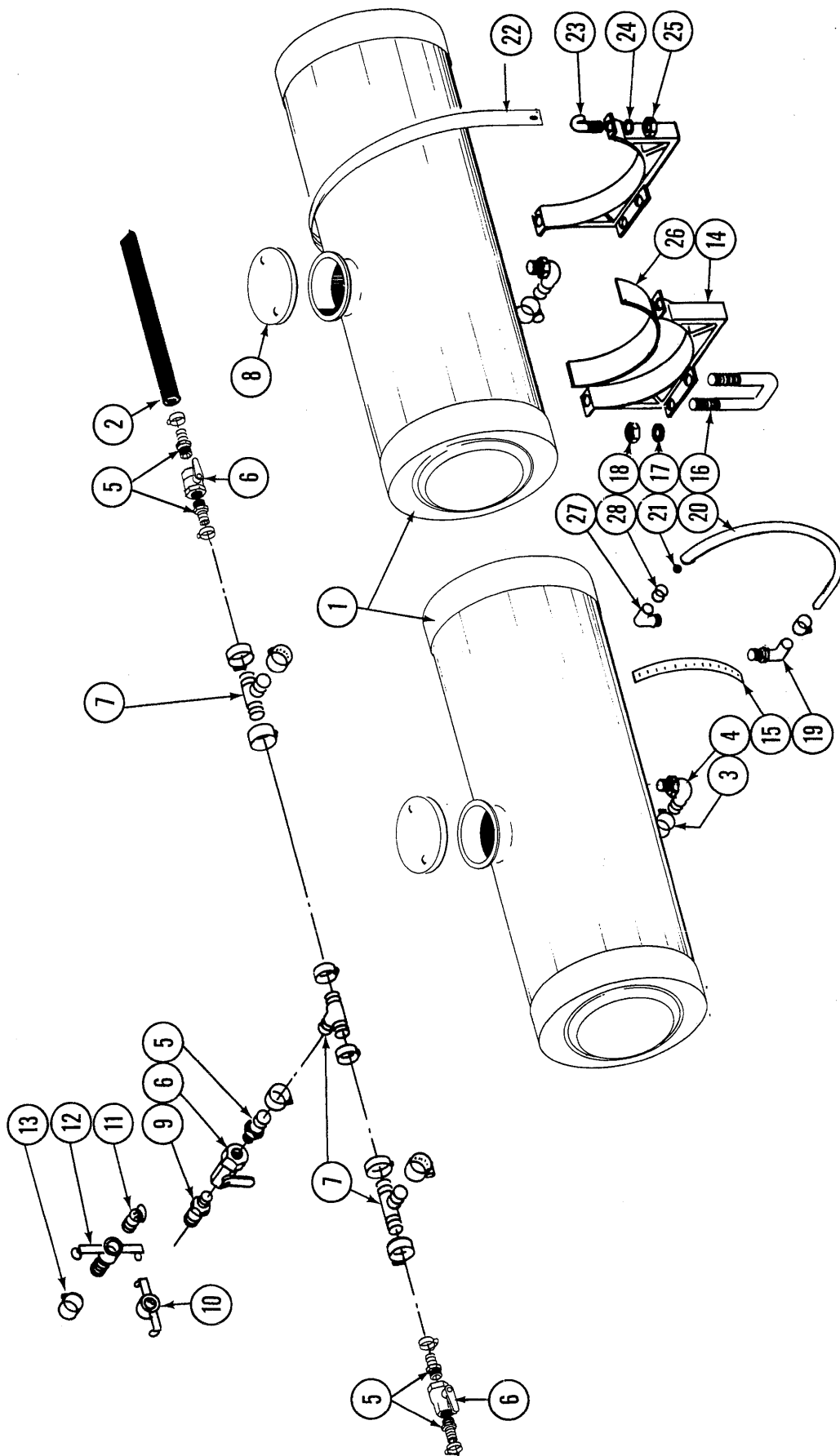
DRY FERTILIZER HOPPER AND MOUNT



DRY FERTILIZER HOPPER AND MOUNT

ITEM	PART NO.	DESCRIPTION
1.	D1379	Hopper, Dry Fertilizer
2.	A2101	Lid, Includes Clips and Pop Rivets
3.	D1380	Clip
4.	10655	Pop Rivet, 3/16" x 13/32"
5.	D1210	Strap, Rubber
6.	10019	Screw, Hex Head Cap, 5/16" - 18 x 1"
7.	10219	Washer, 5/16" USS
8.	10232	Lockwasher, 5/16"
9.	10106	Nut, 5/16" - 18
10.	D1209	Strap, Reinforcing
11.	D1213	Washer, Rubber
12.	D1207	Baffle
13.	10670	Hair Pin Clip, No. 3
14.	D1200	Housing, Outlet
15.	10303	Carriage Bolt, 5/16" - 18 x 1"
16.	D1201	Shaft, Auger
17.	D1206	Bearing Shaft
18.	D1212	Washer, Shaft (Special)
19.	10464	Cotter Pin, 3/16" x 1"
20.	D1202	Guide, Auger
21.	D1205	Spring, Auger, Left Hand
22.	D1203	Plug, Spring
23.	D1204	Spring, Auger, Right Hand
24.	D1208	Saddle
25.	10037	Screw, Hex Head Cap, 1/2" - 13 x 1 1/4"
26.	10228	Lockwasher, 1/2"
27.	10102	Hex Nut, 1/2" - 13
28.	10562	Clevis Pin, 7/16" x 3"
29.	10456	Cotter Pin, 1/8" x 3/4"
30.	10641	Grease Fitting, 1/8" NPT x 45°
31.	10201	Washer, Special
32.	10675	Hose Clamp, No. 20
33.	A267	Mount, Hopper
34.	D1114	U-Bolt, 7" x 7" x 5/8" - 11
35.	10230	Lockwasher, 5/8"
36.	10104	Hex Nut, 5/8"-11
37.	D1214	Tube, Rubber
38.	10676	Hose Clamp, No. 36
39.	A552	Drive Coupler, 3 1/8"
	A553	Drive Coupler, 28 5/8"
	A554	Drive Coupler, 4 5/8"
	A555	Drive Coupler, 16 1/8"
	A556	Drive Coupler, 13 1/8"
	A557	Drive Coupler, 23 1/8"
	A558	Drive Coupler, 17 1/8"
	A559	Drive Coupler, 34 7/8"
	A560	Drive Coupler, 18 5/8"
	A561	Drive Coupler, 30 5/8"
	A562	Drive Coupler, 11 5/8"
	A665	Drive Coupler, 7 5/8"
	A684	Drive Coupler, 24 5/8"
	A697	Drive Coupler, 4 1/8"
	A881	Drive Coupler, 1 5/8"
	A884	Drive Coupler, 22"

LIQUID FERTILIZER TANK ASSEMBLY



LIQUID FERTILIZER TANK ASSEMBLY

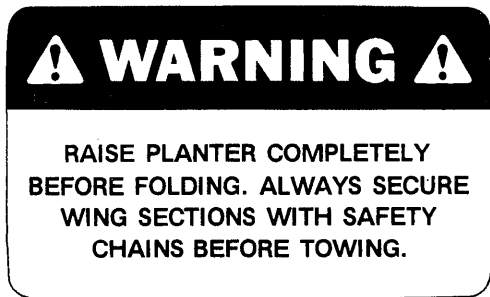
ITEM	PART NO.	DESCRIPTION
1.	D2600	Tank and 1 1/4 Pipe Boss 30" x 200 gallon
2.	4200-3	Hose, 1 1/4" x 32', 8 Row Models
	4200-6	Hose, 1 1/4" x 40', 12 Row Models
3.	10674	Hose Clamp, No. 24
4.	10742	Elbow, 90°, 1 1/4" NPT to 1 1/4" Barb Fitting
5.	10745	Adapter, 1 1/4" NPT to 1 1/4" Barb Fitting
6.	A499	Ball Valve, 1 1/4" Nylon
7.	10750	Tee, 1 1/4", Plastic
8.	D1522	Lid, Tank, 10"
9.	D1514	Q Cam, 1 1/4"
10.	D1515	Dust Cap, 1 1/4"
11.	D1517	Dust Plug
12.	D1516	Q CHB, 1 1/2"
13.	10672	Hose Clamp, No. 28
14.	A3034	Tank Mounting Bracket w/Saddle
15.	D2601	Indicator Tape
16.	D1114	U-Bolt, 5/8" - 11 x 7 x 7
17.	10230	Lock Washer, 5/8"
18.	10104	Hex Nut, 5/8" - 11
19.	10740	Elbow, 90°, 1/2 NPT to 1/2" Barb
20.	4300-2	Hose, Site
21.	D1513	Ball, Site
22.	D1520	Tank Band
23.	D1337	J-Bolt, 5/16"
24.	10232	Lockwasher, 5/16"
25.	10106	Hex Nut, 5/16" - 18
26.	D1334	Tank Pad, 4" Width (14' Roll)
27.	10741	Elbow, 90° w/Nut And Washer
28.	10673	Hose Clamp, No. 8
	D1162	28" Tie Strap (Not Shown)
	D1512	6" Tie Strap (Not Shown)
	D2117	14 1/2" Tie Strap (Not Shown)

DECALS FOR REAR FOLD

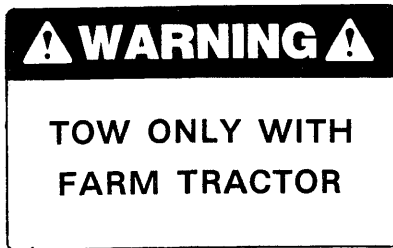
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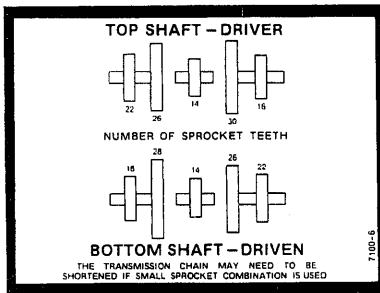
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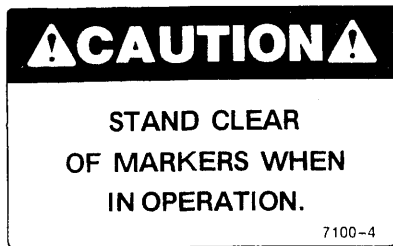
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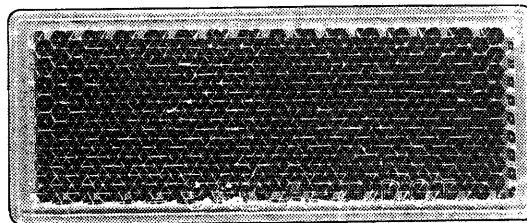
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REF. NO.	QUANTITY	PART NO.	DESCRIPTION
1	3	7100-1	6" x 24" KINZE, White on Black
2	2	7100-2	2 1/2" x 4" Black on Yellow, Safety Pins
3	1	7100-3	2 1/2" x 4" Black on Yellow, Tow
4	2	7100-4	2 1/2" x 4" Red on White, Caution-Markers
5	1	7100-5	3" x 5" Black on Yellow, Raise Planter
6	2	7100-6	3" x 4" Black on Silver, Transmission
7	2	7200-1	Reflector-Red
	2	7200-2	Reflector-Amber

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