TO THE OWNER

M0125

OPERATOR & PARTS MANUAL

Single Frame Planter

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 assembly, operation, and maintenance of the planter. Do not use or operate this equipment until this manual has been read and understood.

Throughout this manual the symbol ⚠ and the words **Note, Caution and Warning** are used to call your attention to important safety information. The definition of each of these terms used follows:

NOTE: Indicates a special point of information.

CAUTION: Indicates that a failure to observe can cause damage to the machine or equipment.

⚠ **WARNING: Indicates that a failure to observe can cause damage to equipment and/or personal injury.**

This manual is applicable to:

Single Frame Pull Type Planter
Model Number PT
Serial Number 11129 and on.

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

Date Purchased _____

Serial Number _____

Model Number _____

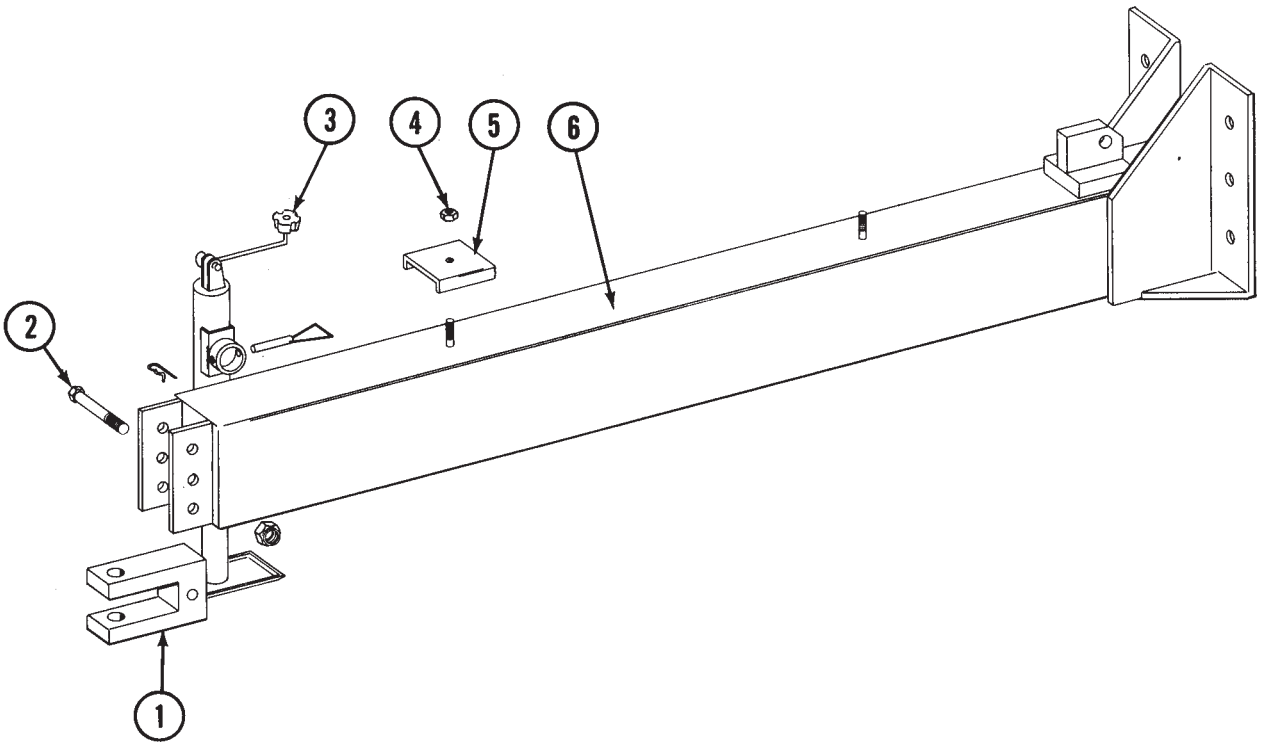
(Revised)

5/90 Reprint

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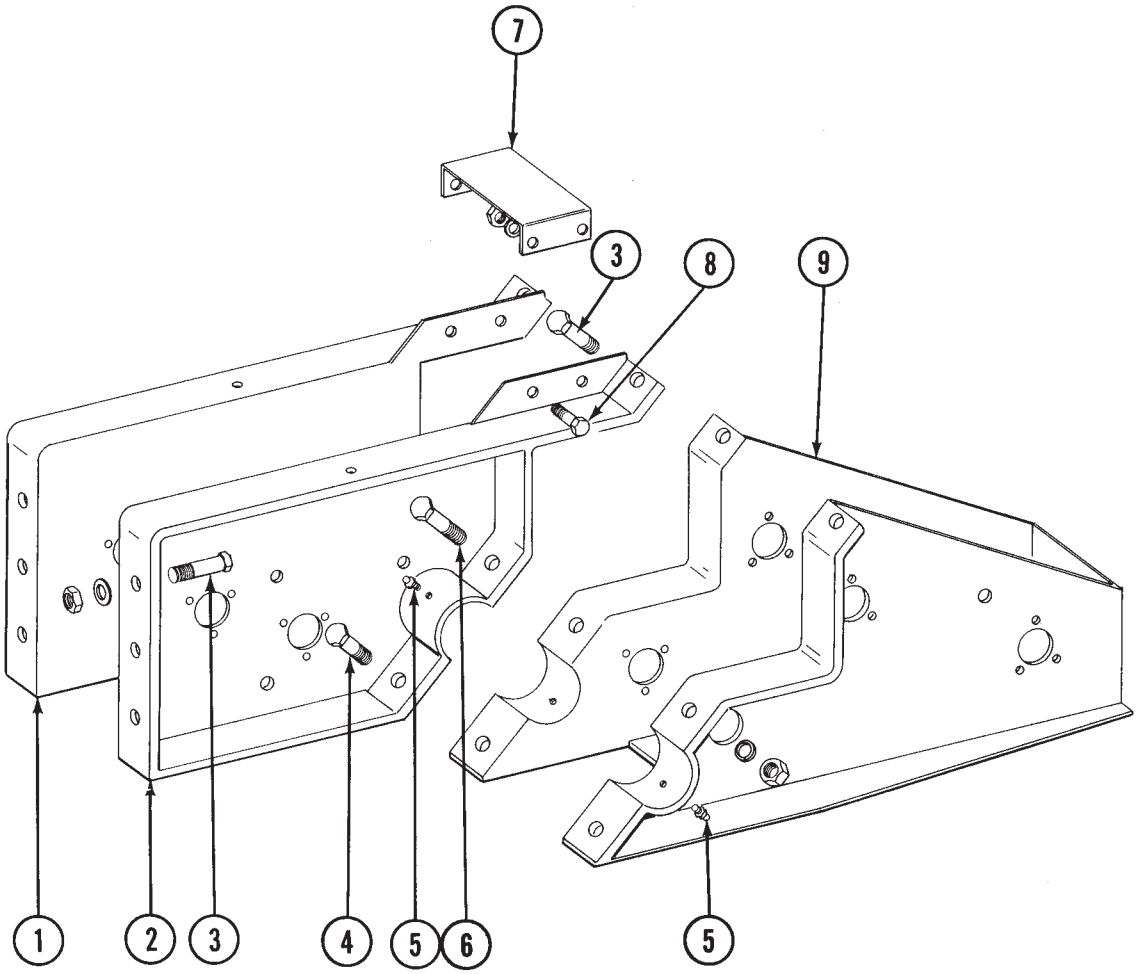
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HITCH ASSEMBLY



ITEM	PART NO.	DESCRIPTION
1.	A346	Clevis
2.	10029	HHCS, 3/4" - 10 x 4 1/2"
	10112	Lock Nut, 3/4" - 10
3.	4100-1A	Jack (Shown)
	R255	Repair Kit (Pin and Chain)
	4100-1B	Jack
	R765	Repair Kit, Pin
4.	10111	Lock Nut, 1/2" - 13
5.	D740	Clamp, Hose
6.	A788	Hitch

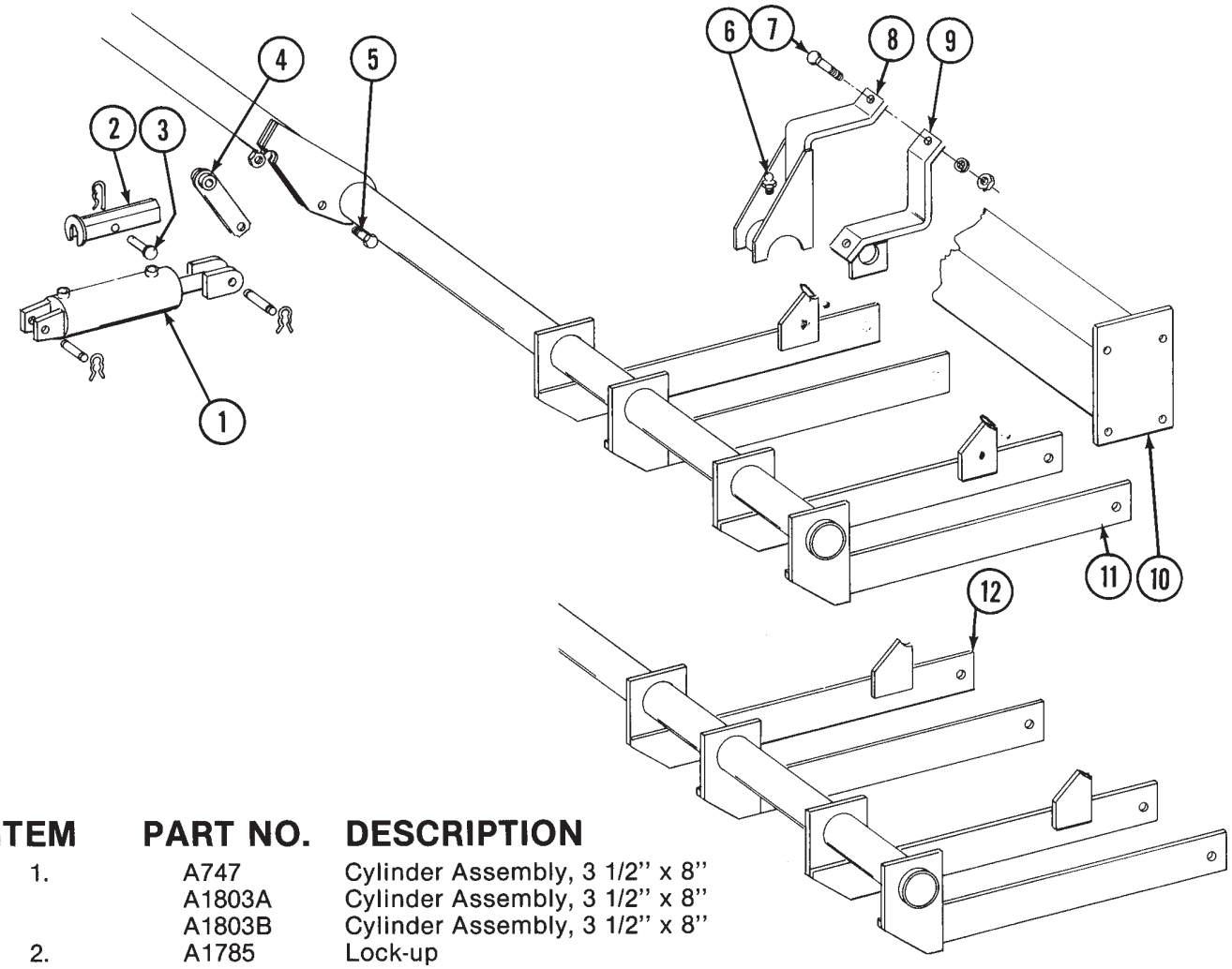
HITCH MOUNT ASSEMBLY



ITEM	PART NO.	DESCRIPTION
1.	A808	Hitch Mount, R.H.
2.	A809	Hitch Mount, L.H.
3.	10027	HHCS, 3/4" - 10 x 2 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10
4.	10026	HHCS, 3/4" - 10 x 2"
	10112	Lock Nut, 3/4" - 10
5.	10641	Fitting, Grease, 1/8" NPT
6.	10028	HHCS, 3/4" - 10 x 3"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10
7.	D965	Plate, Valve
8.	10019	HHCS, 5/16" - 18 x 1" 4 Row 30, 4 Row Wide, 6 Row 30
	10133	HHCS, 5/16" - 18 x 1 1/2", 6 Row Wide and 8 Row 30
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
9.	A350	Case, Transmission

FRAME AND AXLE ASSEMBLY

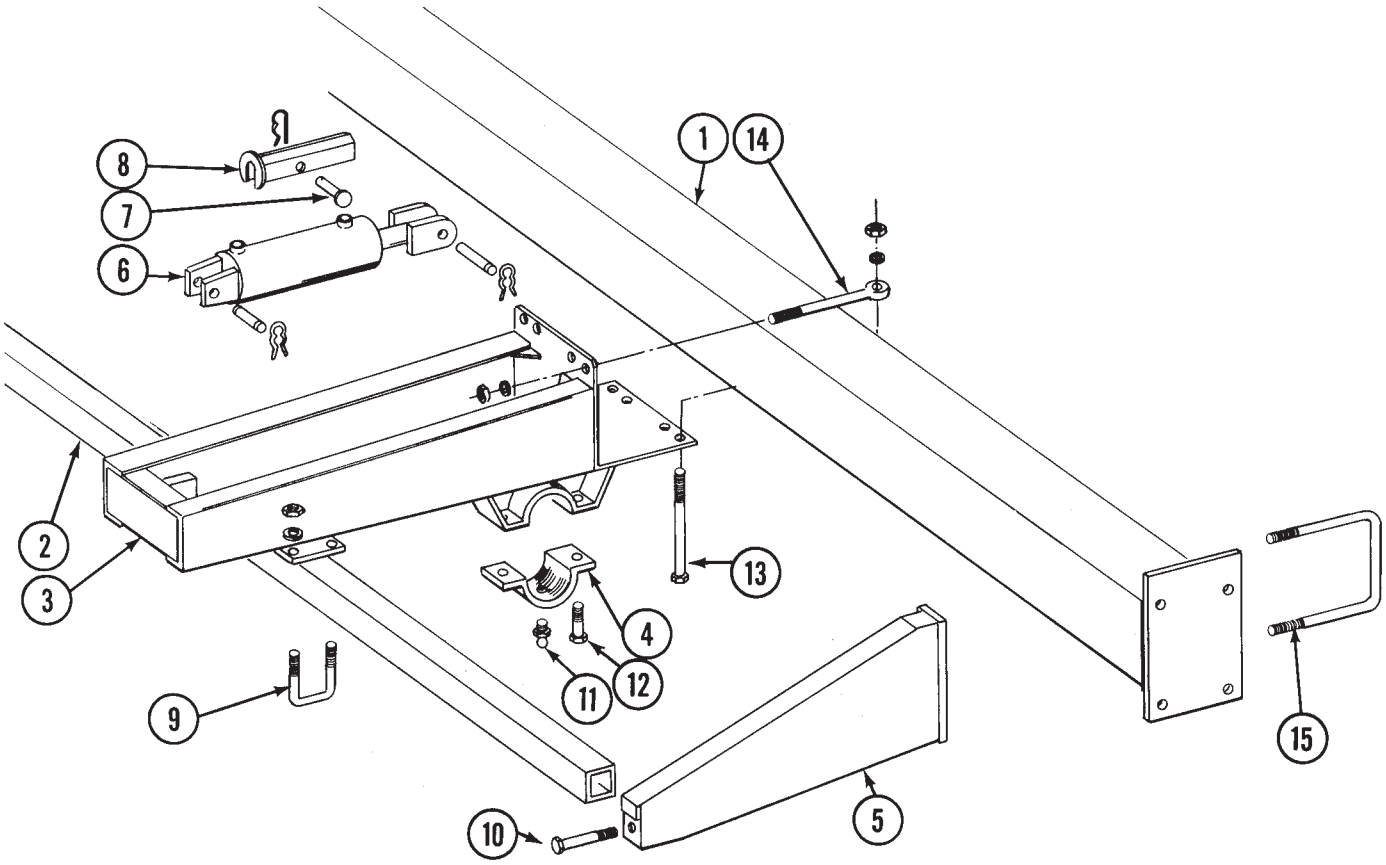
2 Row,
4 Row 30", 4 Row Wide
6 Row 30", 6 Row Wide



ITEM	PART NO.	DESCRIPTION
1.	A747	Cylinder Assembly, 3 1/2" x 8"
	A1803A	Cylinder Assembly, 3 1/2" x 8"
	A1803B	Cylinder Assembly, 3 1/2" x 8"
2.	A1785	Lock-up
3.	10561	Clevis Pin, 1/2" x 3"
	10670	Clip Pin, No. 3
4.	A341	Mount, Cylinder
5.	10017	HHCS, 1/2" - 13 x 1 1/2"
	10111	Lock Nut, 1/2" - 13
6.	10641	Fitting, Grease, 1/8" NPT
7.	10027	HHCS, 3/4" - 10 x 2 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10
8.	A335	Axle Clamp, Front
9.	A333	Axle Clamp, Rear, L.H. (Shown)
	A332	Axle Clamp, Rear, R.H.
10.	A336	Frame, 128", 4 Row 30
	A524	Frame, 136", 4 Row Wide
	A525	Frame, 169", 6 Row 30
	A526	Frame, 214", 6 Row Wide
	A2500	Frame, 90 1/2", 2 Row
11.	A338	Axle, 74", 4 Row 30
	A352	Axle, 90", 4 Row Wide
	A354	Axle, 134", 6 Row 30
	A356	Axle, 166", 6 Row Wide
12.	A2424	Axle, 74", 4 Row 30
	A2425	Axle, 90", 4 Row Wide, 2 Row Wide
	A2426	Axle, 134", 6 Row 30
	A2427	Axle, 166", 6 Row Wide

FRAME ASSEMBLY

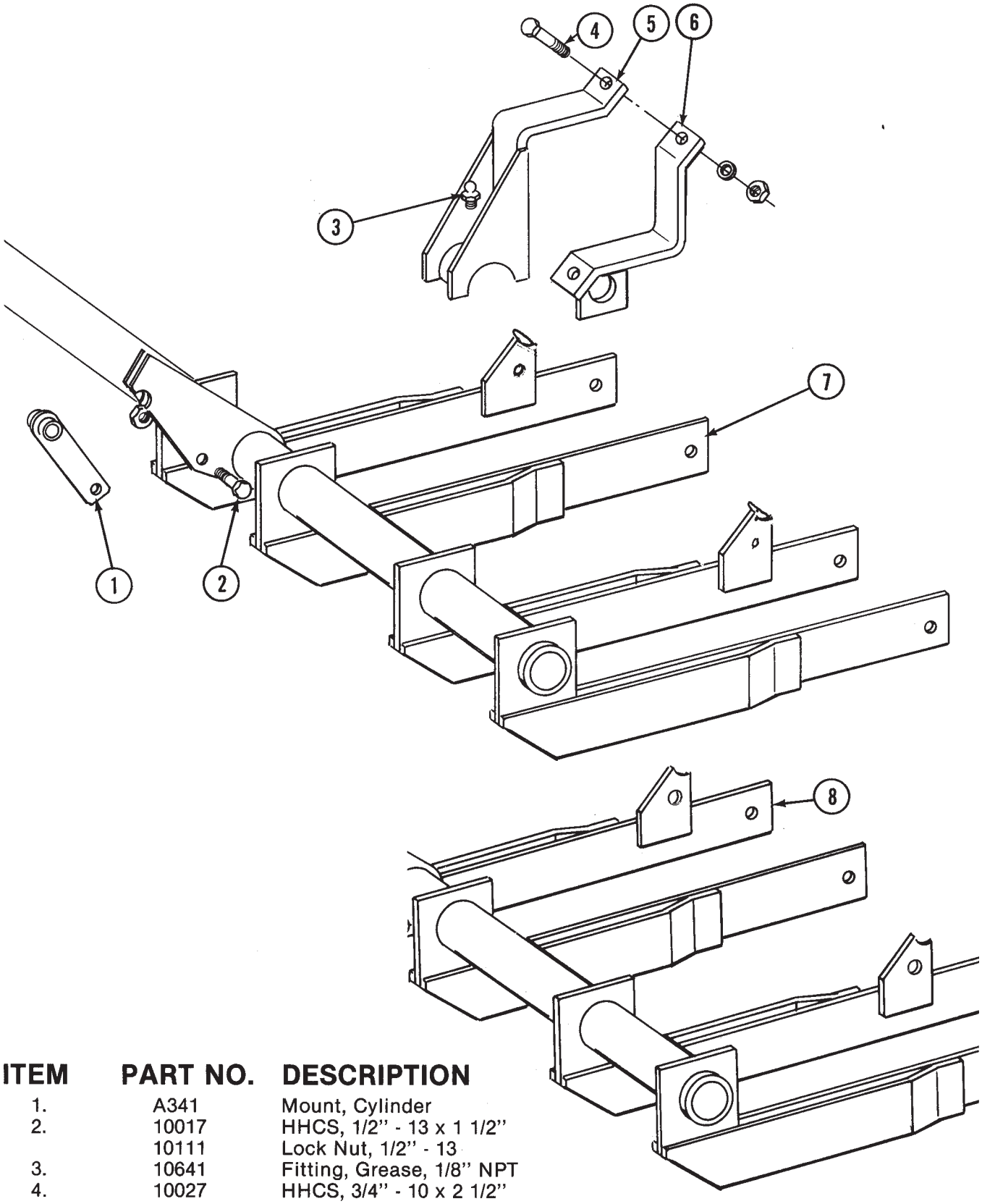
8 Row 30"



ITEM	PART NO.	DESCRIPTION
1.	A527	Frame, 229"
2.	A877	Bar, Fertilizer
3.	A880L	Bracket, Cylinder Mounting, L.H.
	A880R	Bracket, Cylinder Mounting, R.H.
4.	A663	Clamp, Half
5.	A1872	Support, Fertilizer, R.H.
	A1873	Support, Fertilizer, L.H. (shown)
6.	A1803A	Cylinder Assembly, 3 1/2" x 8"
	A1803B	Cylinder Assembly, 3 1/2" x 8"
	A747	Cylinder Assembly, 3 1/2" x 8"
7.	10561	Clevis Pin, 1/2" x 3"
	10670	Clip Pin, No. 3
8.	A1785	Lock-Up
9.	10339	U-Bolt, 2 1/2" x 2 1/2" x 1/2" - 13
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
10.	10035	HHCS, 1/2" - 13 x 4"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
11.	10641	Fitting, Grease, 1/4"
12.	10027	HHCS, 3/4" - 10 x 2 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10
13.	10030	HHCS, 3/4" - 10 x 9"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10
14.	D830	Eye Bolt, 3/4" - 10 x 9"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10
15.	D1748	U-bolt, 7" x 7" x 3/4" - 10
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10

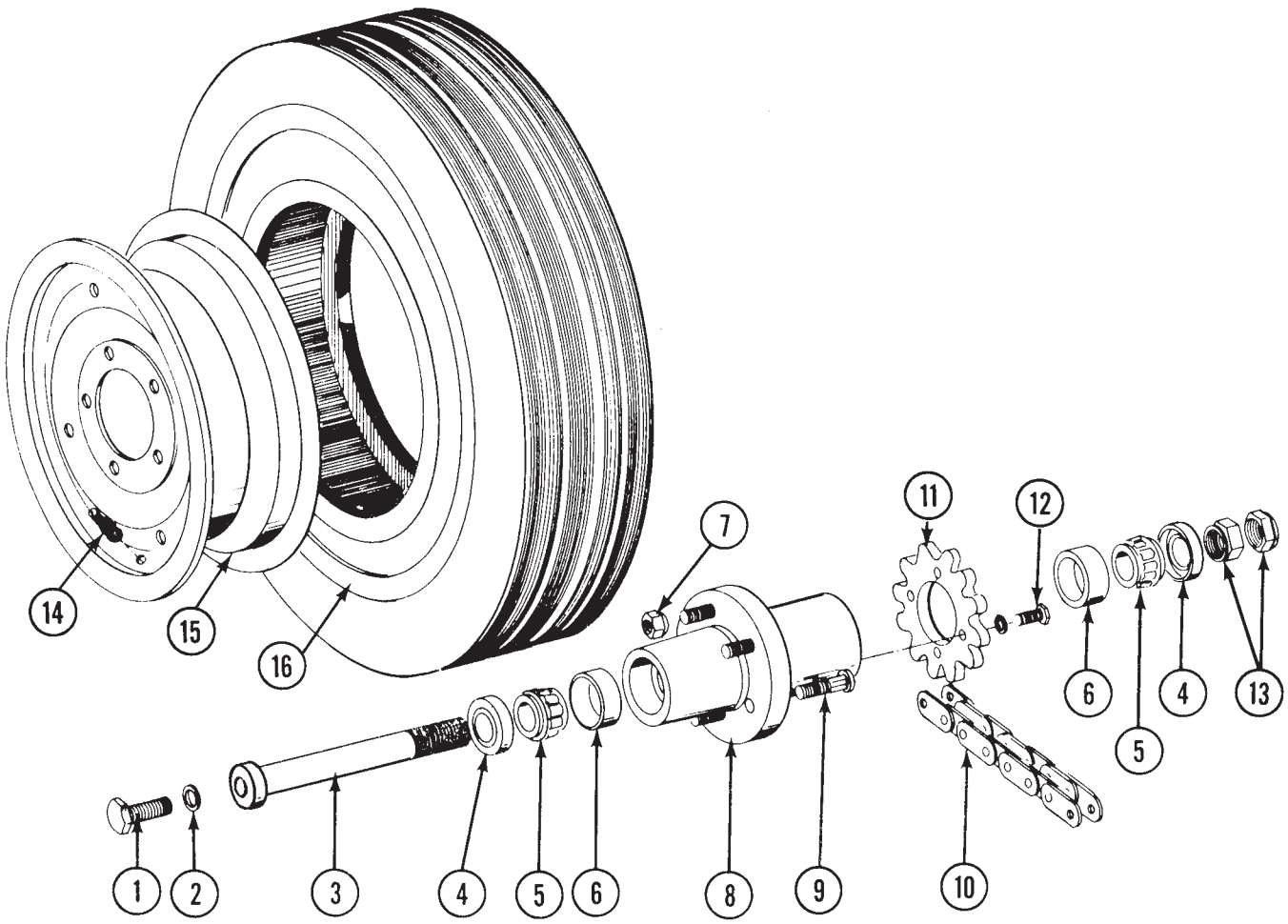
AXLE ASSEMBLY

8 Row 30"



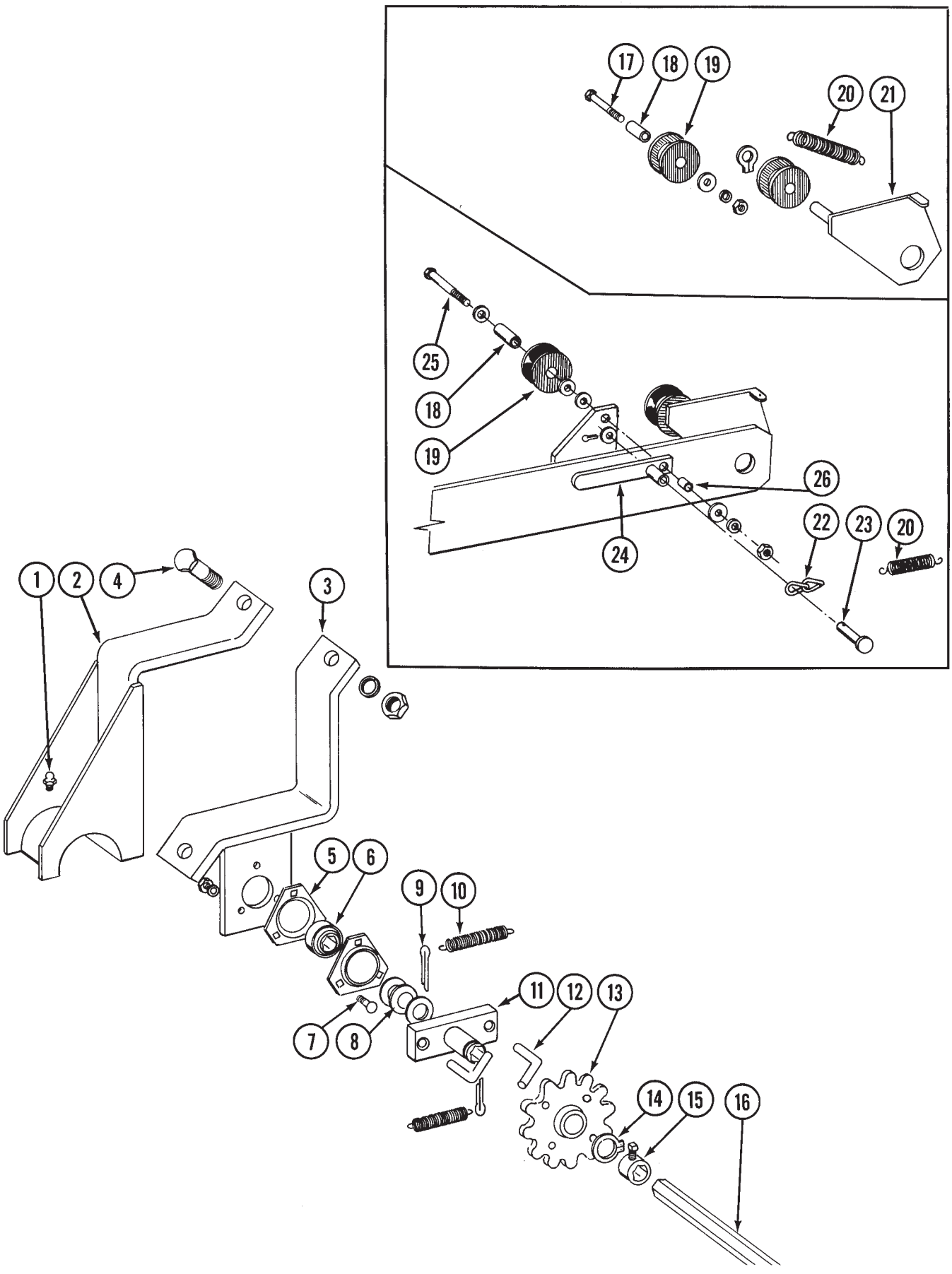
ITEM	PART NO.	DESCRIPTION
1.	A341	Mount, Cylinder
2.	10017	HHCS, 1/2" - 13 x 1 1/2"
	10111	Lock Nut, 1/2" - 13
3.	10641	Fitting, Grease, 1/8" NPT
4.	10027	HHCS, 3/4" - 10 x 2 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10
5.	A335	Axle Clamp, Front
6.	A332	Axle, Clamp, Rear, R.H.
	A333	Axle, Clamp, Rear, L.H. (Shown)
7.	A661	Axle, 194"
8.	A2428	Axle, 194"

DRIVE GAUGE WHEEL ASSEMBLY



ITEM	PART NO.	DESCRIPTION
1.	10026	HHCS, 3/4" - 10 x 2"
2.	10231	Lock Washer, 3/4"
3.	A2257	Spindle
4.	A252	Seal, Grease
5.	A251	Bearing
6.	R190	Cup
7.	R267	Nut, 1/2" - 20 UNF
8.	A547	Hub, w/Cups and Studs
9.	R204	Stud, 1/2" - 20 UNF x 1 7/8"
10.	3200-58	Chain, No. 2050, 58 Pitch Including Connector Link
	3200-6	Chain, No. 2050 (Add to chain when using extended drill sprocket)
	R195	Connector Link, No. 2050
11.	2500-17	Sprocket, Bolt-on, 12 Tooth
12.	10019	HHCS, 5/16" - 18 x 1"
	10232	Lock Washer, 5/16"
13.	D831	Nut, Shoulder, 1 1/4"
14.	D1166	Valve Stem
15.	A241	Wheel, 15" x 5, 5 bolt
16.	D844	Tire, 7.60 x 15", 4 ply
A.	A683	Drive Hub Assembly (Items 1-9 and 11-13)
B.	A374	Tire and Rim Assembly, 7.60 x 15" (Items 14-16)

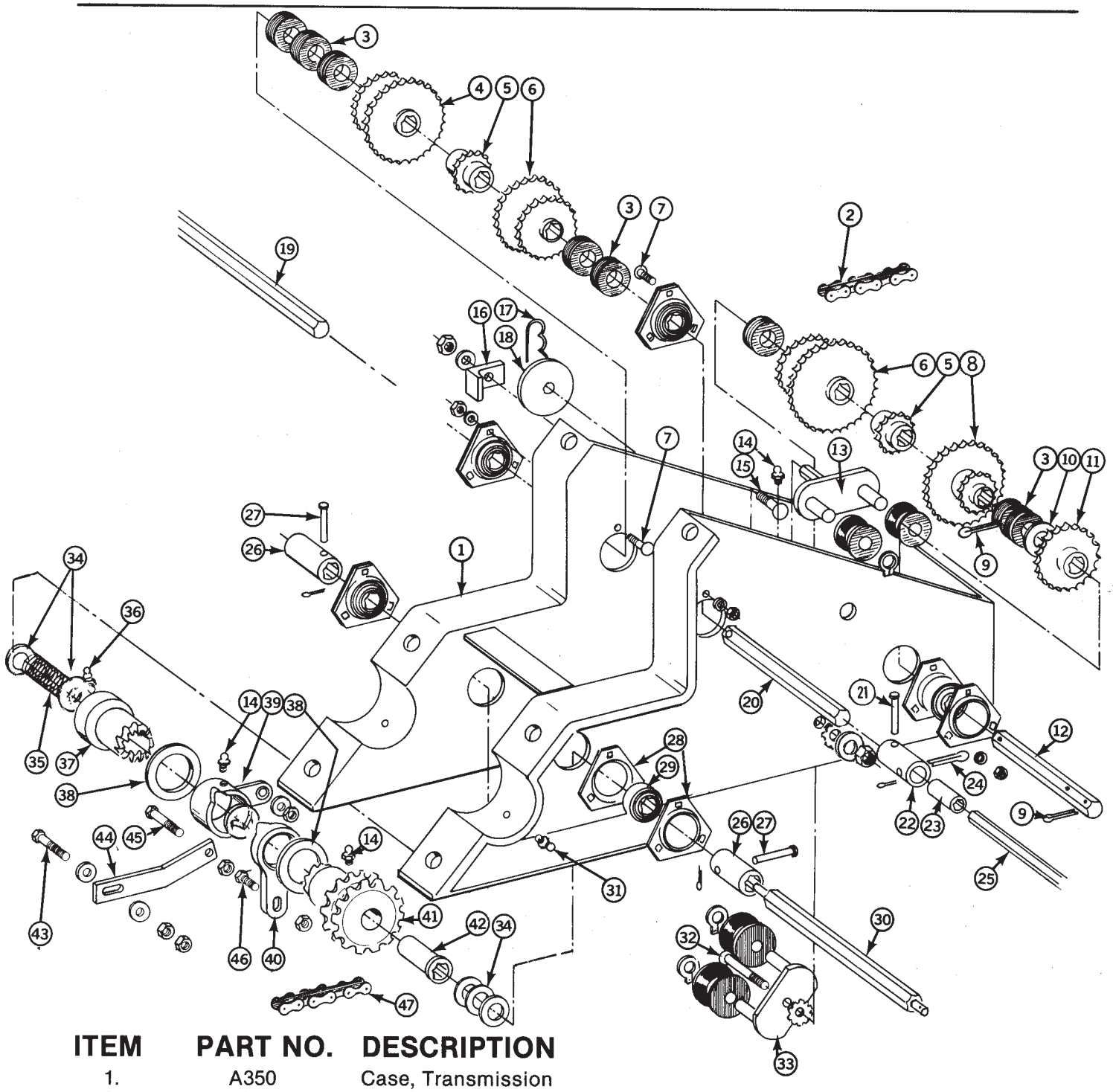
DRIVE LINE



DRIVE LINE

ITEM	PART NO.	DESCRIPTION
1.	10641	Fitting, Grease, 1/8" NPT
2.	A335	Axle Clamp, Front
3.	A332	Axle Clamp, Rear, R.H. (Shown)
	A333	Axle Clamp, Rear, L.H.
4.	10027	HHCS, 3/4" - 10 x 2 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10
5.	3400-1	Flangette
6.	2100-3	Bearing, 7/8" Hex Bore
7.	10312	Carriage Bolt, 5/16" - 18 x 3/4"
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
8.	10233	Bushing, Machinery, as required
9.	10464	Cotter Pin, 3/16" x 1"
10.	D1256	Spring
11.	A378	Block and Hub Assembly
12.	D1255	"L" Pin
13.	A376	Hub/Sprocket Assembly
14.	10430	Ring, Retaining
15.	D917	Lock Collar, Less Set Screws
	10145	Set Screw, 5/16" - 18 x 1/2"
16.	D914-25	Drive Shaft, 7/8" Hex, L.H. and R.H., 4 Row 30"
	D914-35	Drive Shaft, 7/8" Hex, L.H., 4 Row Wide, 2 Row
	D914-30	Drive Shaft, 7/8" Hex, R.H., 4 Row Wide, 2 Row
	D914-55	Drive Shaft, 7/8" Hex, L.H. and R.H., 6 Row 30
	D914-75	Drive Shaft, 7/8" Hex, L.H. and R.H., 6 Row Wide
	D914-85	Drive Shaft, 7/8" Hex, L.H. and R.H., 8 Row 30
17.	10049	HHCS, 3/8" - 16 x 2 1/2"
	10210	Washer, 3/8" USS
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8" - 16
18.	D973	Bushing, Idler
19.	D916	Spool
20.	D913	Spring
21.	A821	Idler, L.H., with Spool and Ring
	A822	Idler, R.H. (Shown), with Spool and Ring
	10435	Ring
	D916	Spool
22.	3307-2	Chain, Twist Link
23.	10558	Clevis Pin, 5/16" x 1 3/4"
	10221	Washer, 5/16" SAE
	10452	Cotter Pin, 1/8" x 1/2"
24.	A2357	Arm, Drive Throw
25.	10062	HHCS, 3/8" - 16 x 3"
	10210	Washer, 3/8" USS
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8" - 16
26.	D2971-2	Sleeve, 9/32"
A.	A261L	Ratchet Assembly Complete, L.H. (Items 9 thru 14)
	A261R	Ratchet Assembly Complete, R.H. (Items 9 thru 14)
B.	1K125	Drive Throwout Kit (Items 22 thru 26)

TRANSMISSION ASSEMBLY



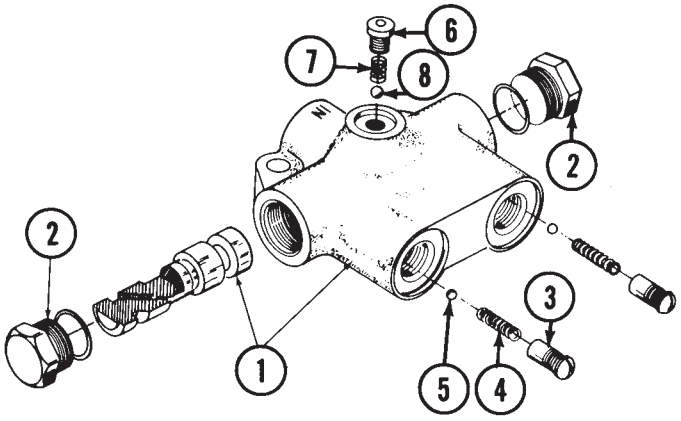
ITEM	PART NO.	DESCRIPTION
1.	A350	Case, Transmission
2.	3300-40	Chain, No. 2040, 40 Pitch Including Connector Link
	R194	Connector Link, No. 2040
3.	D832	Spacer, Rubber
4.	2500-6	Sprocket, 18T-28T
5.	2500-1	Sprocket, 14T
6.	2500-2	Sprocket, 22T - 26T
7.	10303	Carriage Bolt, 5/16" - 18 x 1"
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
8.	2500-3	Sprocket, 16T-30T
9.	10465	Cotter Pin, 1/4" x 1 1/4"
10.	10233	Bushing, Machinery, For use With Extended Drill Sprocket Only
11.	2500-14	Sprocket, 24T
	B138	Sprocket, 48T, Extended Drill

TRANSMISSION ASSEMBLY

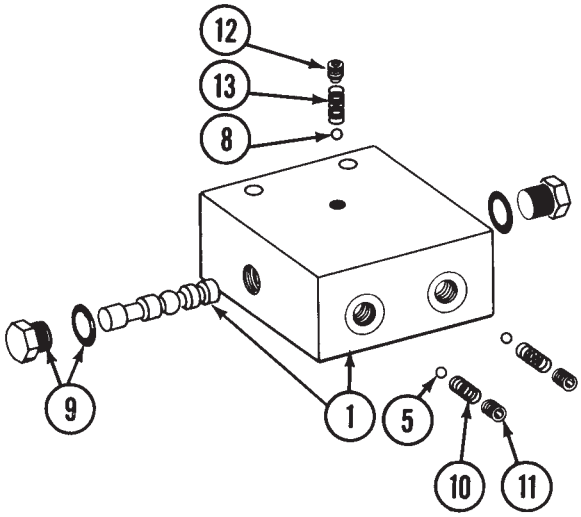
ITEM	PART NO.	DESCRIPTION
12.	D946	Shaft, 10 3/4"
13.	A503	Idler w/Spools and Rings
	D1067	Spool
	10435	Ring
14.	10640	Fitting, Grease, 1/4" - 28
15.	10301	Carriage Bolt, 3/8" - 16 x 1 1/2"
	10210	Washer, 3/8" USS
	10101	Hex Nut, 3/8" - 16
16.	D2495	Angle, Idler Lock
17.	10670	Hair Pin Clip, No. 3
18.	A1668	Tightener, Chain
19.	D739-10	Drill Shaft, 9/16" Hex R.H., 2 Row
	D739-40	Drill Shaft, 9/16" Hex R.H., 4 Row 30
	D739-50	Drill Shaft, 9/16" Hex, R.H., 4 Row Wide
	D739-67	Drill Shaft, 9/16" Hex, R.H., 6 Row 30"
	D739-90	Drill Shaft, 9/16" Hex, R.H., 6 Row Wide
	D739-100	Drill Shaft, 9/16" Hex, R.H., 8 Row 30"
20.	D926	Shaft, 11 1/2"
21.	10548	Clevis Pin, 1/4" x 1 3/4"
	10466	Cotter Pin, 1/16" x 1 1/2"
22.	D748	Coupler
23.	D747	Coupler, 9/16" Hex
24.	10462	Cotter Pin, 3/16" x 2"
25.	D739-20	Drill Shaft, 9/16" Hex, L.H., 2 Row
	D739-50	Drill Shaft, 9/16" Hex, L.H., 4 Row 30
	D739-60	Drill Shaft, 9/16" Hex, L.H. 4 Row Wide
	D739-77	Drill Shaft, 9/16" Hex, L.H. 6 Row 30
	D739-100	Drill Shaft, 9/16" Hex, L.H., 6 Row Wide
	D739-110	Drill Shaft, 9/16" Hex, L.H., 8 Row 30
26.	D1653	Coupler, 7/8" Hex
27.	10565	Clevis Pin, 5/16" x 2"
	10456	Cotter Pin, 1/8" x 3/4"
28.	3400-1	Flangette
29.	2100-3	Bearing, 7/8" Hex Bore
30.	D2576	Shaft, Clutch
31.	10641	Fitting, Grease, 1/8" NPT
32.	10305	Carriage Bolt, 3/8" - 16 x 1"
	10524	Lock Washer, Internal/External, 3/8"
	10210	Washer, 3/8" USS
	10101	Hex Nut, 3/8" - 16
33.	A2008	Idler w/Spools and Rings
	D1067	Spool
	10435	Ring
34.	10233	Bushing, Machinery
35.	D2962	Spring
36.	10643	Fitting, Grease, 45°, 1/4" - 28
37.	B158	Hub, Clutch
38.	10234	Washer, 2 5/32" I.D.
39.	B129	Cam, Floating
40.	B130	Cam, Fixed
41.	B157	Sprocket/Hub, 12T
42.	D2517	Bushing
43.	10048	HHCS, 3/8" - 16 x 2"
	10210	Washer, 3/8" USS
	10101	Hex Nut, 3/8" - 16
	10108	Lock Nut, 3/8" - 16
44.	D498	Bar, Linkage
45.	10047	HHCS, 3/8" - 16 x 1 3/4"
	10101	Hex Nut, 3/8" - 16
	10210	Washer, 3/8" USS
	10108	Lock Nut, 3/8" - 16
46.	10048	HHCS, 3/8" - 16 x 2"
	10108	Lock Nut, 3/8" - 16
47.	3300-52	Chain, No. 2040, 52 Pitch Including Connector Link
	R194	Connector Link, No. 2040
	3300-6	Chain, No. 2040, Add to Chain When Using Extended Drill Sprocket

SEQUENCING VALVE

Style A

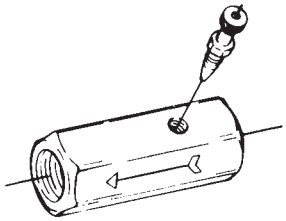


Style B



ITEM	PART NO.	DESCRIPTION
1.		Valve Body and Spool
2.	R271	Plug Assembly, O-Ring Boss
3.	R273	Retainer, Check Valve
4.	R277	Spring, Check Valve
5.	R275	Ball, Check 3/16" Diameter
6.	R274	Plug Assembly, O-Ring Boss
7.	R278	Spring
8.	R276	Ball, 1/4" Diameter
9.	R811	Plug Assembly, O-Ring Boss
10.	R812	Spring
11.	R813	Set Screw, Special
12.	10334	Hex Socket Pipe Plug, 1/16"
13.	R814	Spring
A.	A282A	Sequencing Valve, Complete, Style A
B.	A282B	Sequencing Valve, Complete, Style B

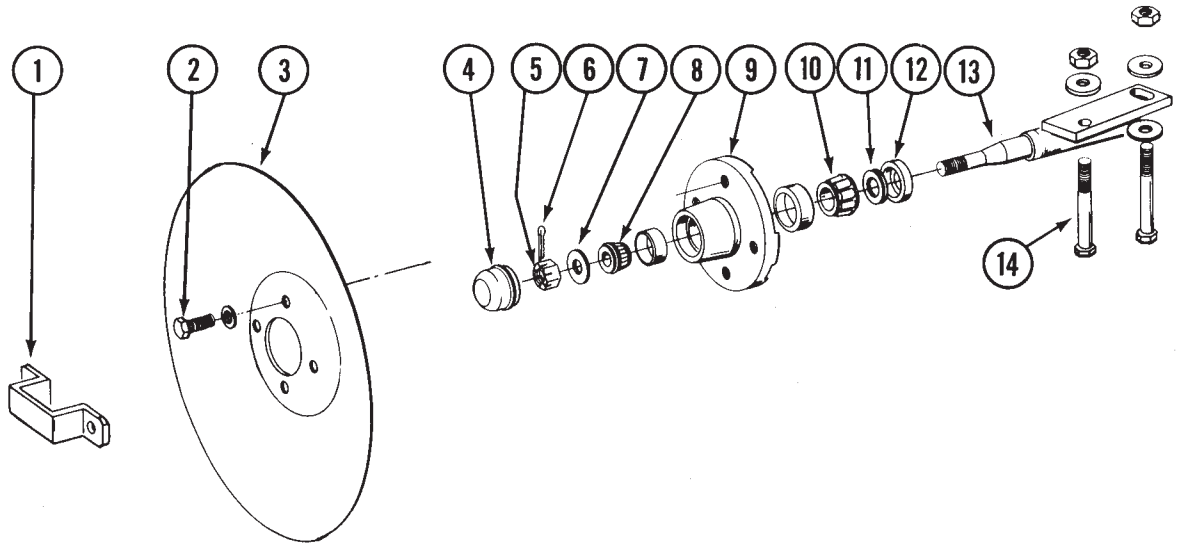
FLOW CONTROL VALVE



ITEM	PART NO.	DESCRIPTION
*A.	A270A	Flow Control Valve Assembly
	R103	Needle Valve Only
**B.	A270B	Flow Control Valve Assembly
	R642	Needle Valve Only
***C.	A270C	Flow Control Valve Assembly
	R767	Needle Valve Only

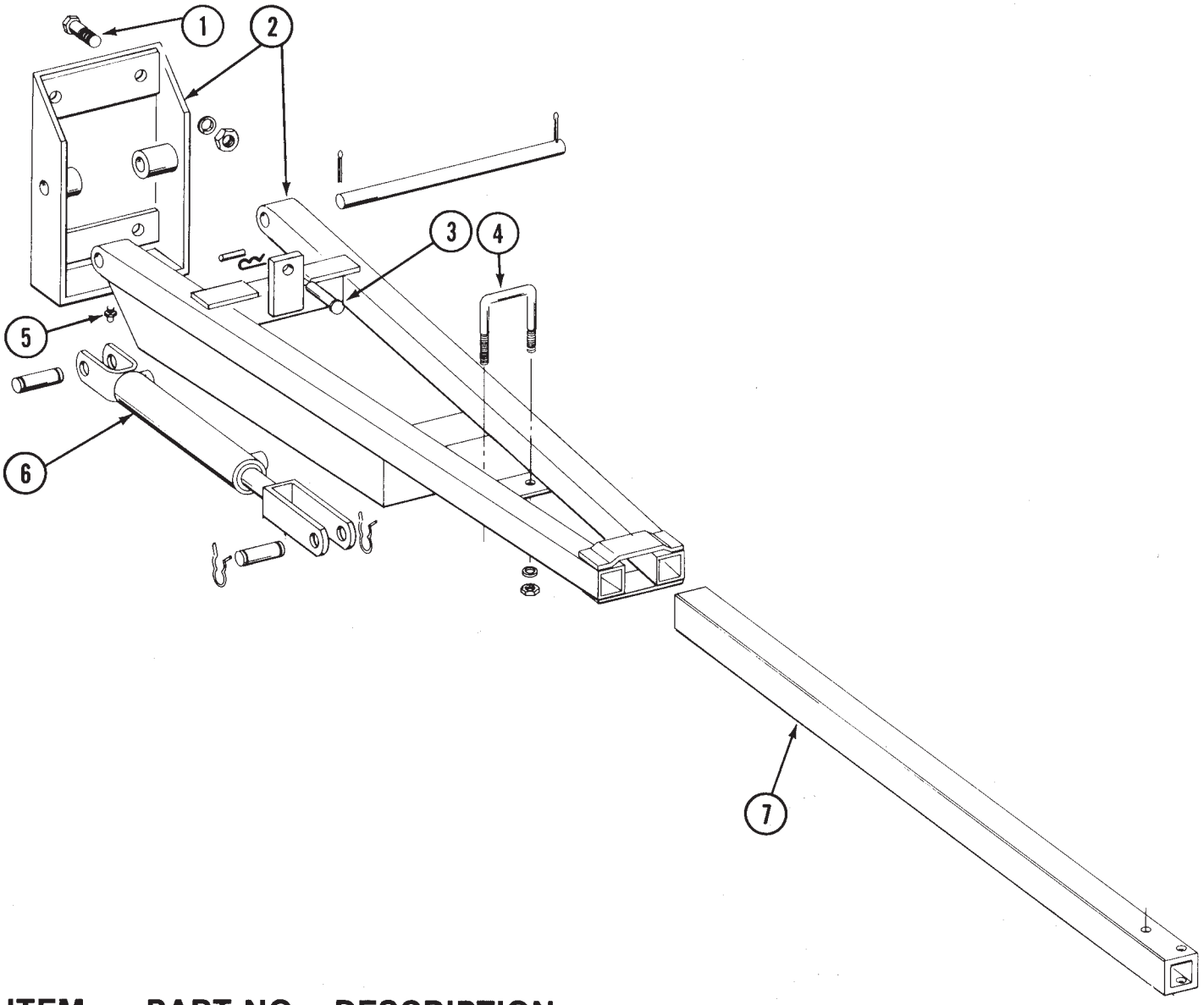
* To identify - RegoKLF375 stamped on valve body.
** To identify - Deltrol stamped on valve body.
*** To identify - Partrol stamped on valve body.

MARKER HUB ASSEMBLY



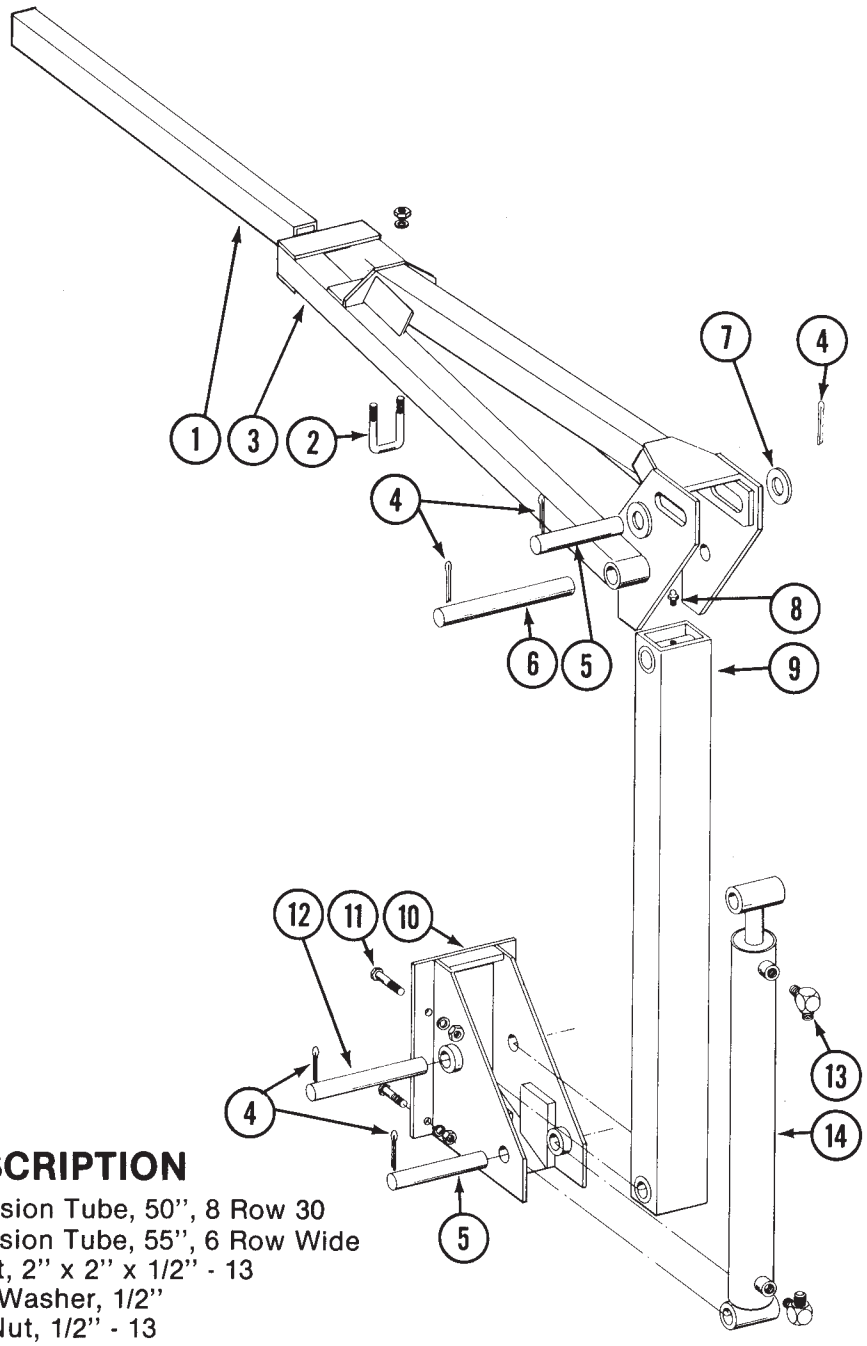
ITEM	PART NO.	DESCRIPTION
1.	D2597	Retainer
2.	10722	HHCS, 1/2" - 20 x 1"
	10228	Lock Washer, 1/2"
3.	D746	Blade, 16"
4.	D840	Cap
5.	10725	Hex Nut, Slotted, 5/8" - 18
6.	10470	Cotter Pin, 5/32" x 1"
7.	10724	Washer, 5/8"
8.	A257	Bearing, Outer
9.	A167	Hub w/cups
	R151	Cup, Outer
	R150	Cup, Inner
10.	A245	Bearing Inner
11.	A899	Seal, Rubber
12.	A243	Seal, Grease
13.	A1677	Spindle, L.H., Less Hardware (Shown)
	A1676	Spindle, R.H. Less Hardware
14.	10033	HHCS, 1/2" - 13 x 3 1/2"
	10168	Machinery Bushing, 1/2", 7 Ga.
	10102	Hex Nut, 1/2" - 13
A.	A1679	Hub and Spindle Assembly L.H. (Items 2 and 4-13)
	A1678	Hub and Spindle Assembly R.H. (Items 2 and 4-13)

CONVENTIONAL MARKER ASSEMBLY



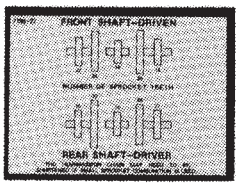
ITEM	PART NO.	DESCRIPTION
1.	10167	HHCS, 1/2" - 13 x 2", Grade 2
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
2.	A2292	Arm w/Mount and Pin, 45", 4 Row 30 and 4 Row Wide
	A2293	Arm w/Mount and Pin, 64", 6 Row 30
	A2294	Mount
	D438	Pin, 13 1/2"
	10460	Cotter Pin, 1/4" x 2"
3.	D462	Pin, Lock-Up
	10670	Hair Pin Clip, No. 3
	10187	Roll Pin, 5/32" x 1"
4.	D2721	U-Bolt, 2" x 2" x 1/2" - 13
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
5.	10640	Grease Fitting, 1/4" - 28
6.	A1674A	Cylinder, 2" x 8"
	A1674B	Cylinder, 2" x 8"
7.	D453-6	Extension Tube, 30", 4 Row 30
	D453-2	Extension Tube, 40", 6 Row 30
	D453-3	Extension Tube, 50", 4 Row Wide

DOUBLE FOLD MARKER ASSEMBLY



ITEM	PART NO.	DESCRIPTION
1.	D453-3	Extension Tube, 50", 8 Row 30
	D453-5	Extension Tube, 55", 6 Row Wide
2.	D2721	U-Bolt, 2" x 2" x 1/2" - 13
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
3.	A2299	Arm, Second Stage, 35", 6 Row Wide
	A2300	Arm, Second Stage, 46", 8 Row 30
4.	10460	Cotter Pin, 1/4" x 2"
5.	D1701	Pin, 1 1/4" x 6 1/2"
6.	D1702	Pin, 1 1/4" x 10 1/4"
7.	10226	Washer, 1 1/4" SAE
8.	10641	Grease Fitting, 1/8" NPT
9.	A828	Arm, First Stage, 38"
10.	A827	Mount
11.	10167	HHCS, 1/2" - 13 x 2", Grade 2
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
12.	D653	Pin, 1 1/4" x 7 3/4"
13.	2501-8-8	Elbow, 90°
14.	A1659	Cylinder, 2" x 20"

DECALS, REFLECTORS AND TIE STRAPS



1



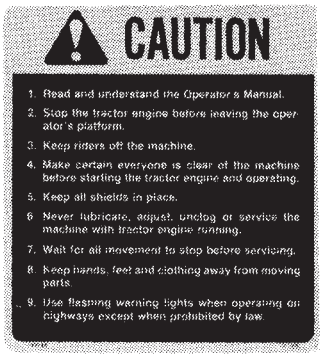
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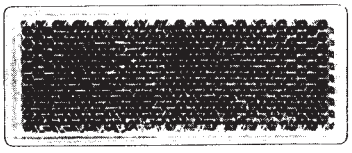
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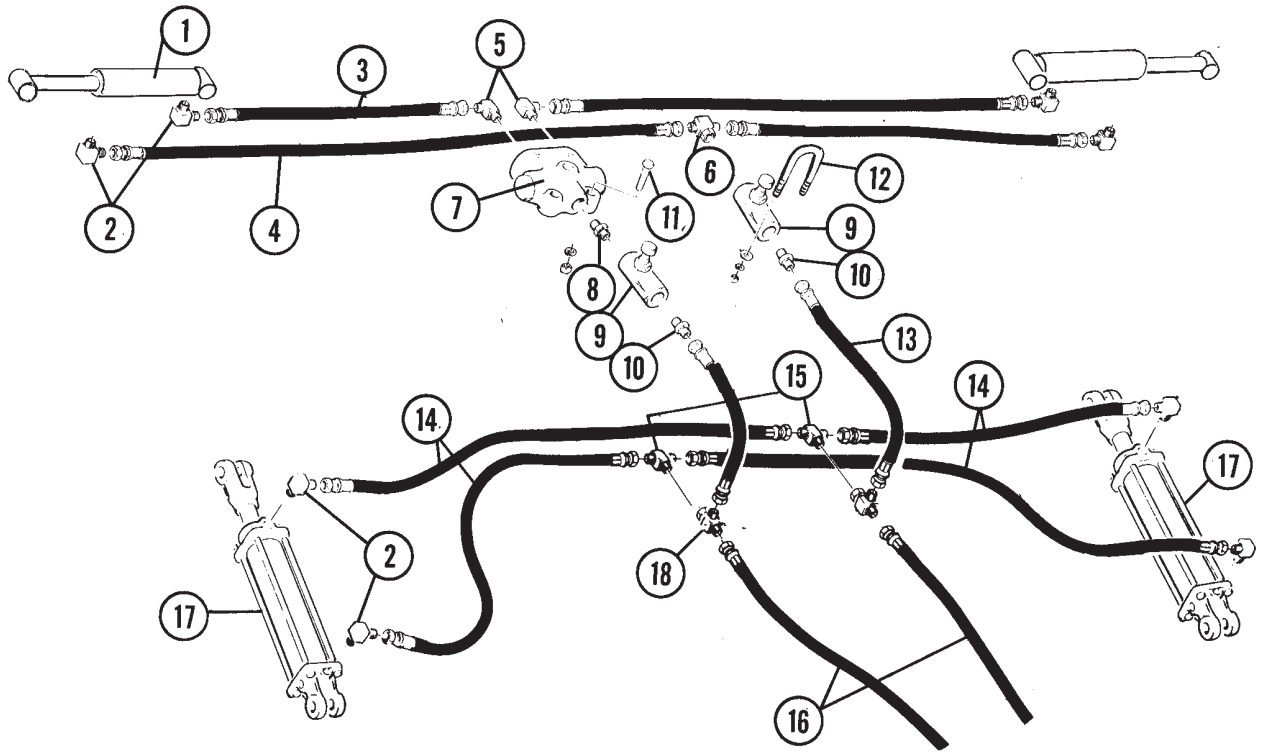


13

ITEM	PART NO.	DESCRIPTION
1.	7100-22	Decal, Sprocket Combination
2.	7100-41	Decal, Warning
3.	7100-42	Decal, Warning
4.	7100-43	Decal, Warning
5.	7100-46	Decal, Caution
6.	7100-47	Decal, Warning
7.	7100-54	Decal, KINZE, 4 3/16" x 17 3/16"
8.	7100-56	Decal, Warning
9.	7200-3	Reflector, Red
	7200-4	Reflector, Amber
10.	D1512	Tie Strap, 6"
	D2177	Tie Strap, 14 1/2"
	D1162	Tie Strap, 28"
11.	R155	Blue Paint, Aerosol (Not Shown)
	R439	Blue Paint, Quart
	R440	Blue Paint, Gallon
12.	7100-89	Decal, Danger
13.	7100-90	Decal, Warning

HYDRAULIC SYSTEM

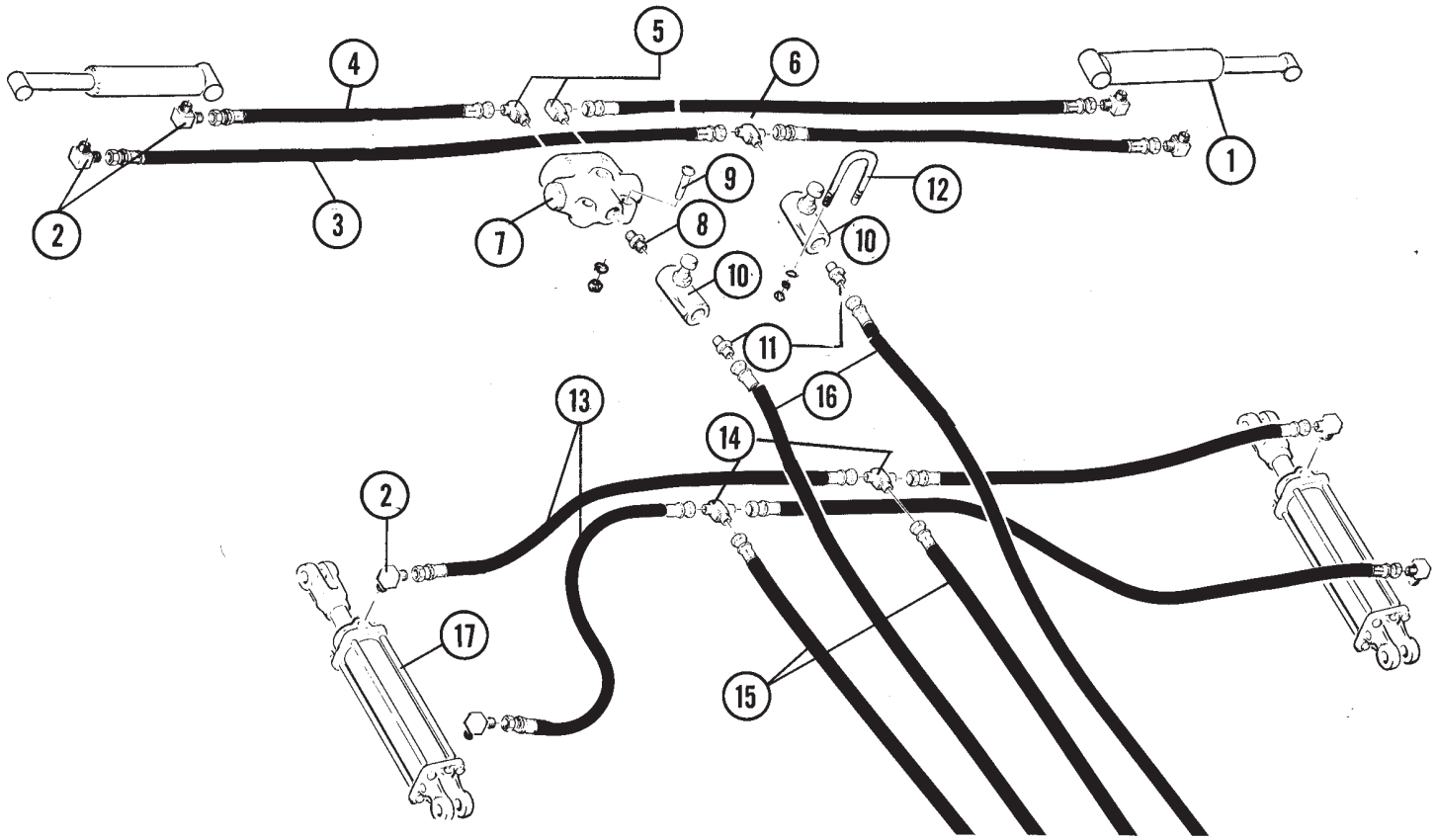
SINGLE VALVE
LOW PROFILE DOUBLE FOLD MARKER
8 ROW 30"



ITEM	PART NO.	DESCRIPTION
1.	A1659	Cylinder, Marker, 2" x 20"
2.	2501-8-8	Elbow, 90°
3.	A1025	Hose Assembly, 3/8" x 148"
4.	A1026	Hose Assembly, 3/8" x 152"
5.	6801-8	Elbow, 90°
6.	2601-8-6	Side Tee, Male
7.	A282	Valve, Sequence
8.	6401-8-6	Adapter, Straight
9.	A270	Valve, Flow Control
10.	2404-8-6	Adapter, Straight
11.	10048	HHCS, 3/8" - 16 x 2"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8" - 16
12.	D1253	U-Bolt, 5/16" - 18 x 2 1/4" x 1 1/2"
	10219	Washer, 5/16" USS
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
13.	A1044	Hose Assembly, 3/8" x 34"
14.	A1039	Hose Assembly, 3/8" x 76"
15.	2603-8	Tube Tee, 37°
16.	A1043	Hose Assembly, 3/8" x 125"
17.	A1803A	Cylinder, Lift, 3 1/2" x 8"
	A1803B	Cylinder, Lift, 3 1/2" x 8"
	A747	Cylinder, Lift, 3 1/2" x 8"
18.	6602-8	Tee, Swivel

HYDRAULIC SYSTEM

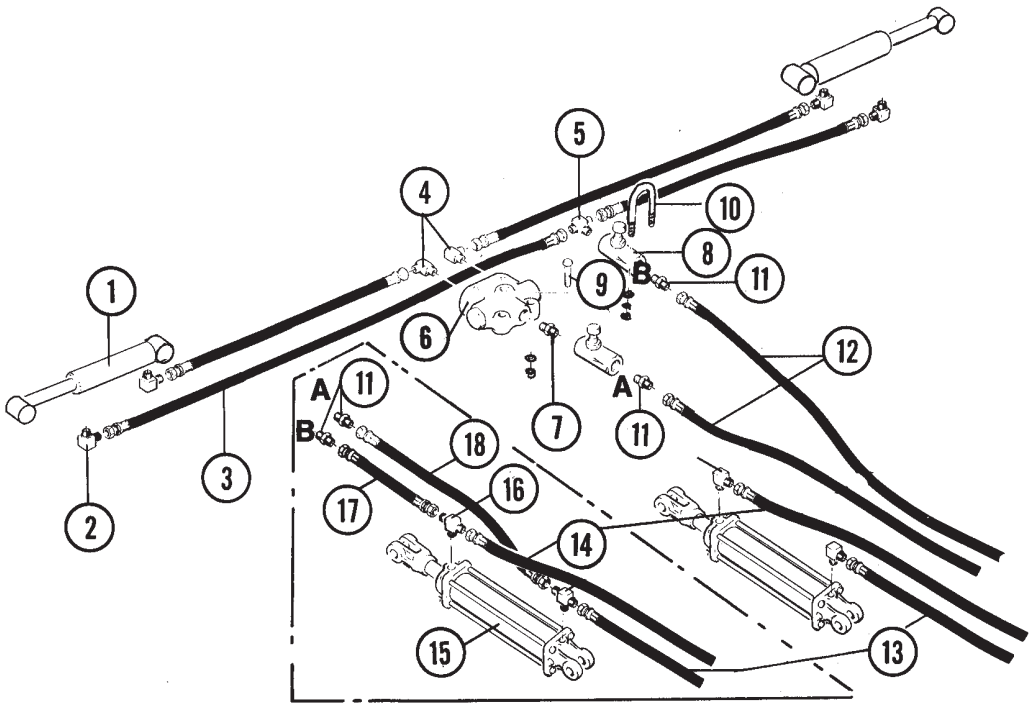
DUAL VALVE
LOW PROFILE DOUBLE FOLD MARKER
8 ROW 30"



ITEM	PART NO.	DESCRIPTION
1.	A1659	Cylinder, Marker, 2" x 20"
2.	2501-8-8	Elbow, 90°
3.	A1026	Hose Assembly, 3/8" x 152"
4.	A1025	Hose Assembly, 3/8" x 148"
5.	6801-8	Elbow, 90°
6.	2601-8-6	Side Tee, Male
7.	A282	Valve, Sequence
8.	6401-8-6	Adapter, Straight
9.	10048	HHCS, 3/8" - 16 x 2"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8" - 16
10.	A270	Valve, Flow Control
11.	2404-8-6	Adapter, Straight
12.	D1253	U-Bolt, 5/16" - 18 x 2 1/4" x 1 1/2"
	10219	Washer, 5/16" USS
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
13.	A1039	Hose Assembly, 3/8" x 76"
14.	2603-8	Tube Tee, 37°
15.	A1043	Hose Assembly, 3/8" x 125"
16.	A1012	Hose Assembly, 3/8" x 140"
17.	A1803A	Cylinder, Lift, 3 1/2" x 8"
	A1803B	Cylinder, Lift, 3 1/2" x 8"
	A747	Cylinder, Lift, 3 1/2" x 8"

HYDRAULIC SYSTEM

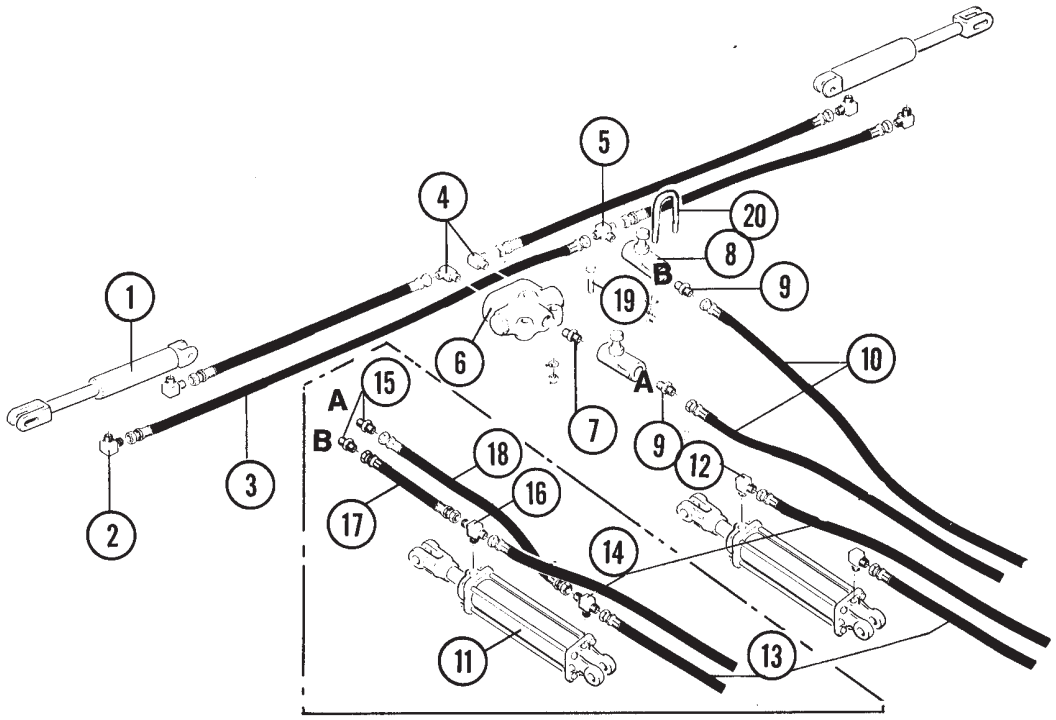
SINGLE AND DUAL VALVE
LOW PROFILE DOUBLE FOLD MARKER
6 ROW WIDE



ITEM	PART NO.	DESCRIPTION
1.	A1659	Cylinder, Marker, 2" x 20"
2.	2501-8-8	Elbow, 90°
3.	A1041	Hose Assembly, 3/8" x 130"
4.	6801-8	Elbow, 90°
5.	2601-8-6	Side Tee, Male
6.	A282	Valve, Sequence
7.	6401-8-6	Adapter, Straight
8.	A270	Valve, Flow Control
9.	10048	HHCS, 3/8" - 16 x 2"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8" - 16
10.	D1253	U-Bolt, 5/16" - 18 x 2 1/4" x 1 1/2"
	10219	Washer, 5/16" USS
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
11.	2404-8-6	Adapter, Straight
12.	A1012	Hose Assembly, 3/8" x 140"
13.	A1007	Hose Assembly, 3/8" x 105"
14.	A1009	Hose Assembly, 3/8" x 117"
15.	A1803A	Cylinder, Lift, 3 1/2" x 8"
	A1803B	Cylinder, Lift, 3 1/2" x 8"
	A747	Cylinder, Lift, 3 1/2" x 8"
16.	2601-8-8	Side Tee, Male
17.	A1079	Hose Assembly, 3/8" x 24"
18.	A1003	Hose Assembly, 3/8" x 27"

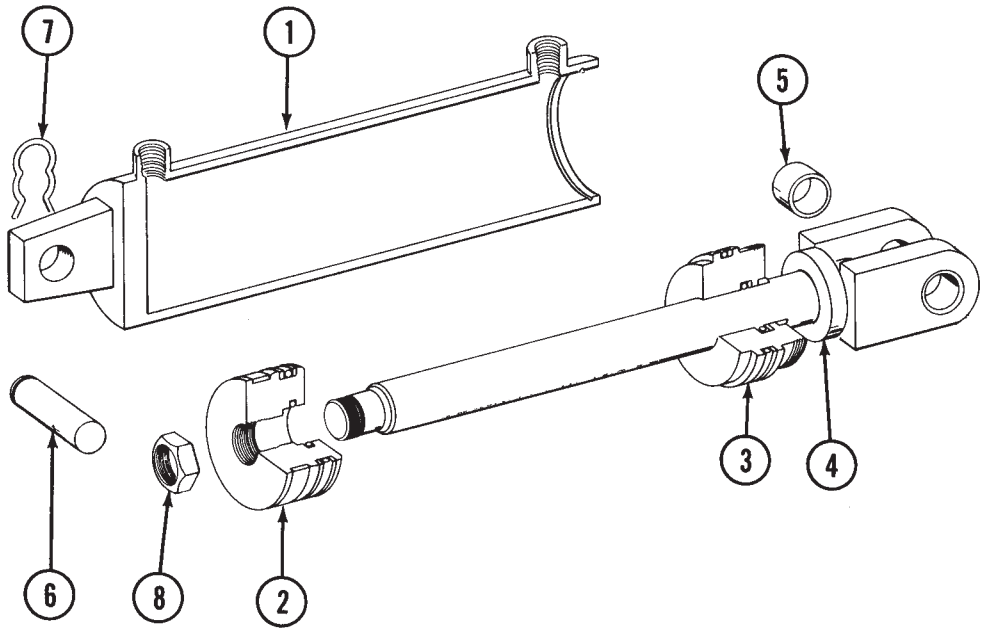
HYDRAULIC SYSTEM

SINGLE AND DUAL VALVE CONVENTIONAL MARKER 4 ROW 30", 4 ROW WIDE, 6 ROW 30"



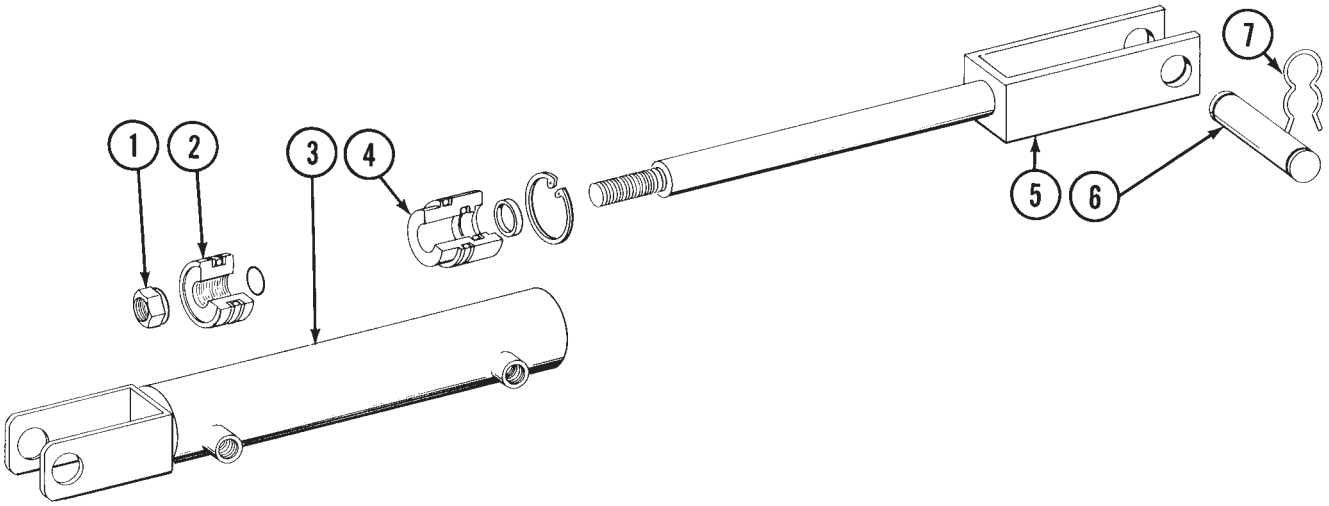
ITEM	PART NO.	DESCRIPTION
1.	A1674A	Cylinder, Marker, 2" x 8"
	A1674B	Cylinder, Marker, 2" x 8"
2.	2501-6-6	Elbow, 90°
3.	A1102	Hose Assembly, 1/4" x 95", 4 Row 30, 4 Row Wide
	A1103	Hose Assembly, 1/4" x 110", 6 Row 30
4.	6801-6-8	Elbow, 90°
5.	2601-6-6	Side Tee, Male
6.	A282	Valve, Sequence
7.	6401-8-6	Adapter, Straight
8.	A270	Valve, Flow Control
9.	2404-6-6	Adapter, Straight
10.	A1108	Hose Assembly, 1/4" x 140"
11.	A1803A	Cylinder, Lift, 3 1/2" x 8"
	A1803B	Cylinder, Lift, 3 1/2" x 8"
	A747	Cylinder, Lift, 3 1/2" x 8"
12.	2501-8-8	Elbow, 90°
13.	A1007	Hose Assembly, 3/8" x 105"
14.	A1009	Hose Assembly, 3/8" x 117"
15.	2404-8-6	Adapter, Straight
16.	2601-8-8	Side Tee, Male
17.	A1079	Hose Assembly, 3/8" x 24"
18.	A1003	Hose Assembly, 3/8" x 27"
19.	10048	HHCS, 3/8" x 16 x 2"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8" - 16
20.	D1253	U-bolt, 5/16" x 2 1/4" x 1 1/2"
	10219	Washer, 5/16" USS
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18

LIFT CYLINDER



ITEM	PART NO.	DESCRIPTION
1.	A3522	Tube Assembly
2.	D4510	Piston
3.	D4509	Head Gland
4.	A3431	Shaft Assembly w/Bushings
5.	R374	Bushing
6.	R375	Clevis Pin
7.	R193	Clip, Hair Pin
8.	10509	Hex Jam Nut, 1 1/4" - 12
A.	A3471	Cylinder, 3 1/2" x 8" (Less Pins and Clips)
B.	R774	Seal Kit

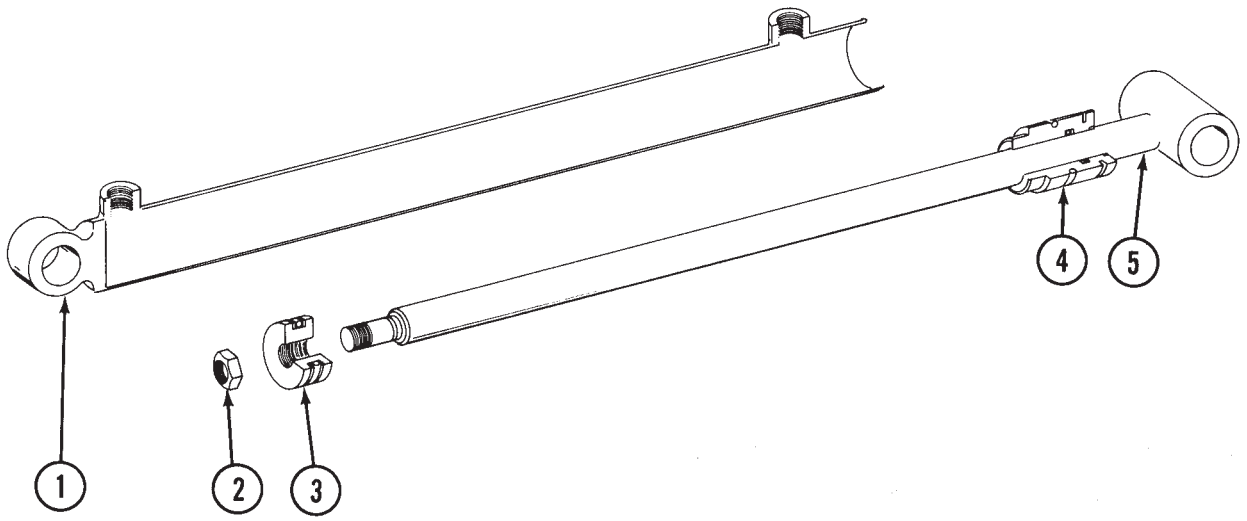
CONVENTIONAL MARKER CYLINDER



ITEM	PART NO.	DESCRIPTION
1.	10327	Hex Nut, 3/4" - 16 UNF
2.	D4632	Piston
3.	A3512	Tube Assembly
4.	D4633	Head Gland
5.	A3513	Shaft Assembly
6.	R367	Clevis Pin
7.	R193	Clip, Hair Pin
*A.	A3438	Cylinder, 2" x 8" (Less Pins and Clips)
B.	R808	Seal Kit

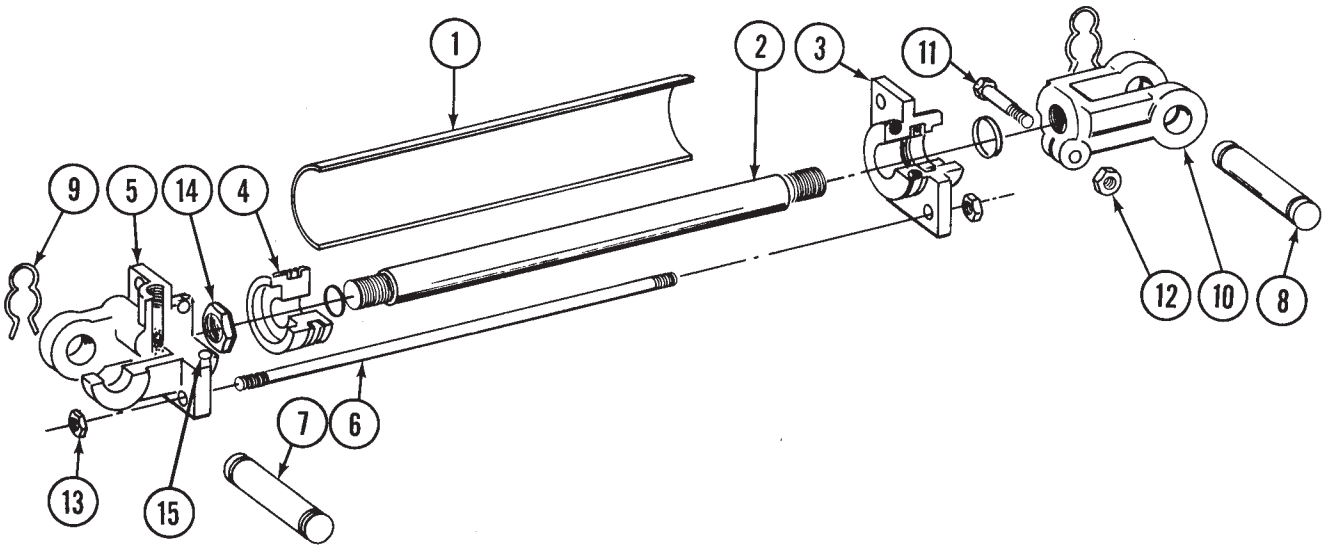
* To identify Kinze part number stamped on barrel.

DOUBLE FOLDING MARKER CYLINDER



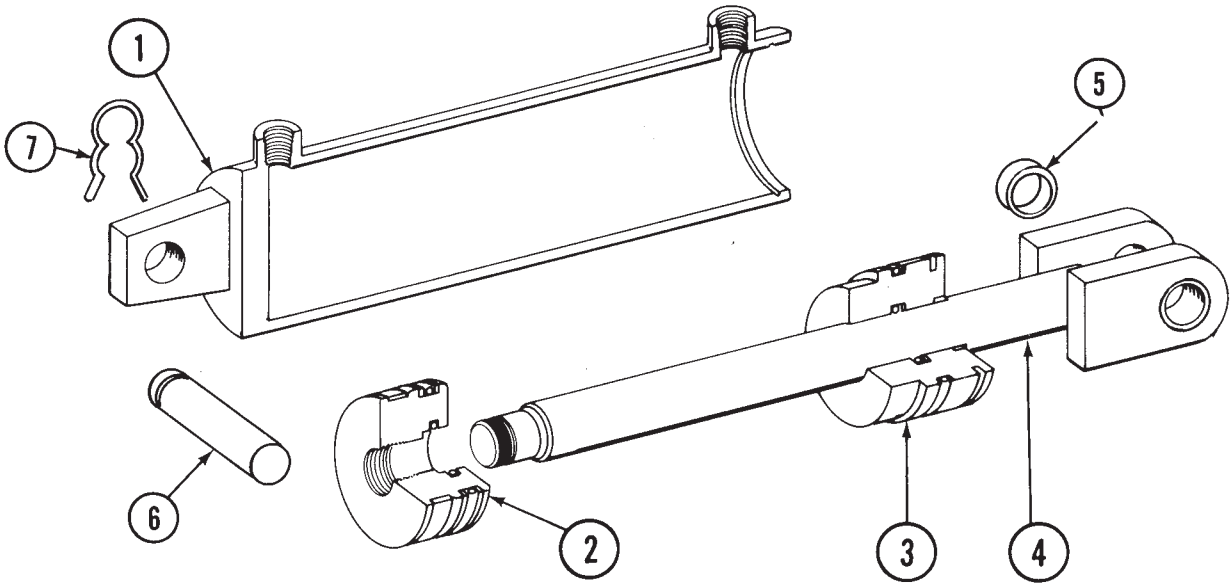
ITEM	PART NO.	DESCRIPTION
1.	A3514	Tube Assembly
2.	10327	Hex Nut, 3/4" - 16 UNF
3.	D4632	Piston
4.	D4634	Head Gland
5.	A3515	Shaft Assembly
*A.	A3439	Cylinder, 2" x 20"
B.	R808	Seal Kit

LIFT CYLINDER



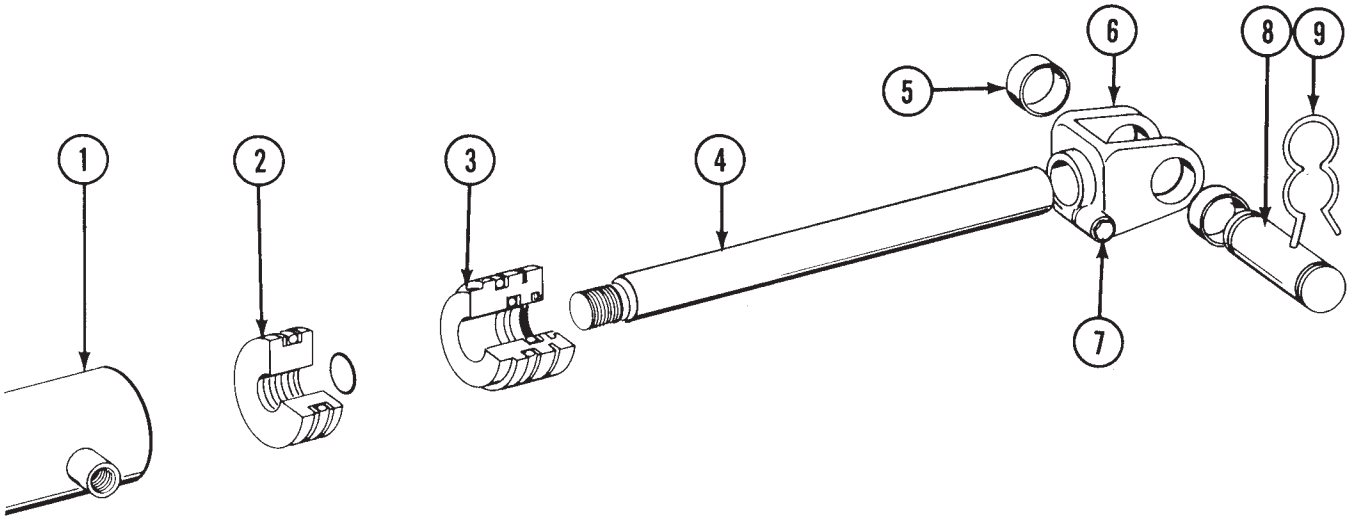
ITEM	PART NO.	DESCRIPTION
1.	R173	Tube Assembly
2.	R174	Shaft Assembly
3.	R175	Guide, Piston Rod
4.	R176	Piston
5.	R177	Clevis, Bottom
6.	R178	Tie Rod
7.	R179	Clevis Pin, w/Clips
8.	R180	Clevis Pin, w/Clips
9.	R193	Clip, Hair Pin
10.	R456	Clevis, Shaft End
11.	10047	Screw, Hex Head Cap, 3/8" - 16 x 1 3/4"
12.	10101	Hex Nut, 3/8" - 16
13.	R181	Hex Nut, 1/2" - 13, Grade 5
14.	R203	Hex Lock Nut, 1" - 14 UNF, Grade 5
15.	10170	Pipe Plug, 1/2"
A.	A1803A	Cylinder, Lift, Complete, 3 1/2" x 8"
B.	R153	Seal Kit Includes (1) Rod Wiper - 1 1/2" (2) Back Up Washer, 3 1/8 I.D. x 3 1/2 O.D. (1) Back Up Washer, 1 1/2" I.D. x 1 7/8 O.D. (3) O-Ring, 3 1/8 I.D. x 3 1/2 O.D. (1) O-Ring, 1 1/2 I.D. x 1 7/8 O.D. (1) O-Ring, 7/8 I.D. x 1 O.D.

LIFT CYLINDER



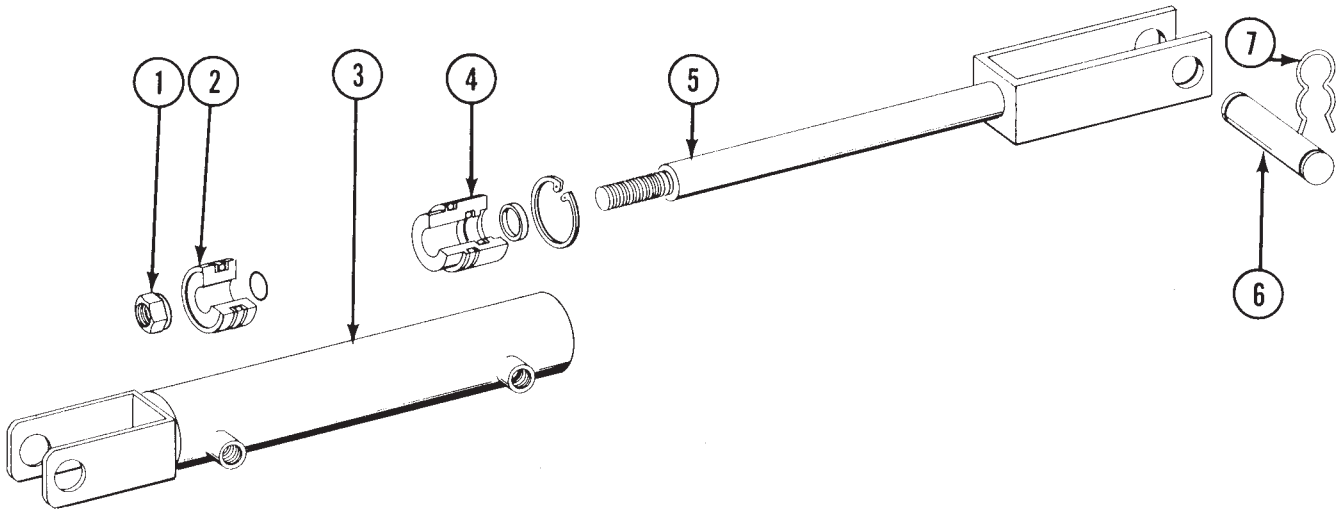
ITEM	PART NO.	DESCRIPTION
1.	R377	Tube Assembly
2.	R561	Piston
3.	R371	Head Gland
4.	R560	Shaft Assembly
5.	R374	Bushing
6.	R375	Clevis Pin
7.	R193	Clip, Hair Pin
A.	A1803B	Cylinder, Lift, Complete, 3 1/2 x 8
B.	R606	Seal Kit Includes (4) O-Rings (4) Back Up Washers (1) Rod Wiper (1) Retaining Ring, Int. 3 1/2" (1) Wear Ring 3 1/2" O.D.

LIFT CYCLINDER



ITEM	PART NO.	DESCRIPTION
1.	R377	Tube Assembly
2.	R372	Piston
3.	R371	Head Gland
4.	R370	Shaft Assembly
5.	R374	Bushing
6.	R373	Clevis
7.	10075	Clevis Bolt 3/8" - 24 x 1 3/4"
8.	R375	Clevis Pin
9.	R193	Clip, Hair Pin
A.	A747	Cylinder, Lift, Complete, 3 1/2 x 8
B.	R376	Seal Kit Includes (1) O-Ring 1.14 I.D. x 1.254 O.D. (1) O-Ring 1.475 I.D. x 1.895 O.D. (1) O-Ring 3.10 I.D. x 3.52 O.D. (1) Back Up Washer 1 1/2 I.D. x 1 7/8 O.D. (3) Back Up Washer 3 1/8 I.D. x 3 1/2 O.D. (1) Rod Wiper (1) Retaining Ring, Int. 3 1/2"

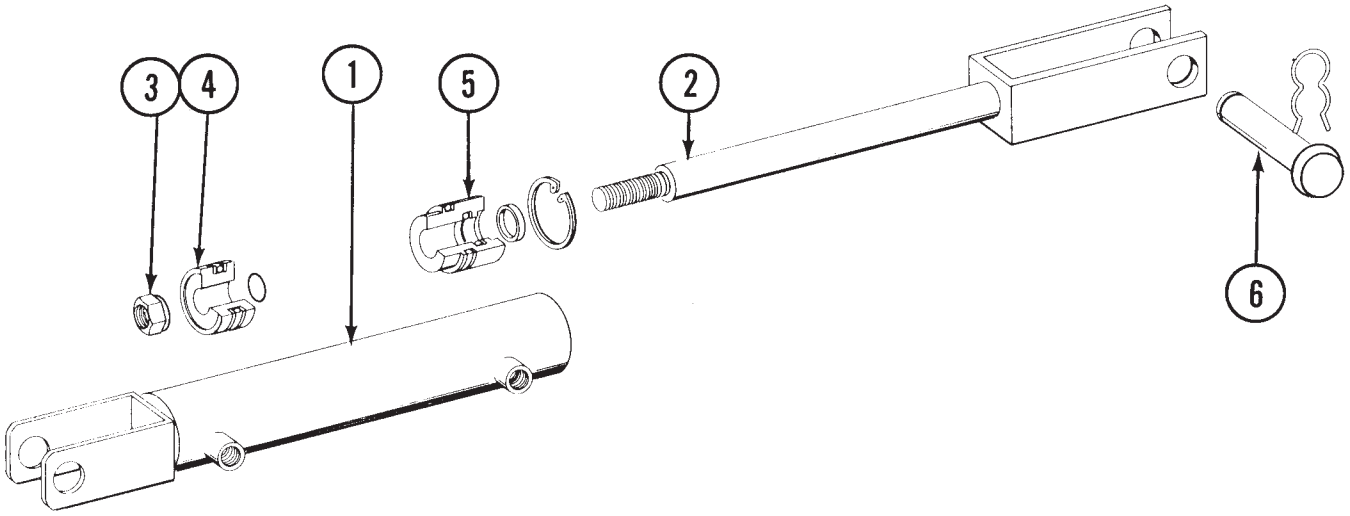
CONVENTIONAL MARKER CYLINDER



ITEM	PART NO.	DESCRIPTION
1.	R366	Hex Nut, 3/4" NF
2.	R365	Piston
3.	R362	Tube Assembly
4.	R364	Head Gland
5.	R363	Shaft Assembly
6.	R367	Clevis Pin
7.	R193	Clip, Hair Pin
* A.	A1674A	Cylinder, Complete, 2" x 8"
B.	R368	Seal Kit Includes (1) O-Ring .614 I.D. x .754 O.D. (1) O-Ring 1.109 I.D. x 1.387 O.D. (2) O-Ring 1.600 I.D. x 2.200 O.D. (1) Back Up Washer 1 1/8" I.D. x 1 3/8" O.D. (1) Rod Wiper 2" I.D. (1) Retaining Ring Internal 2" (2) Back Up Washer 1 5/8" O.D. x 2 O.D.

* To identify - DN13081 stamped on barrel.

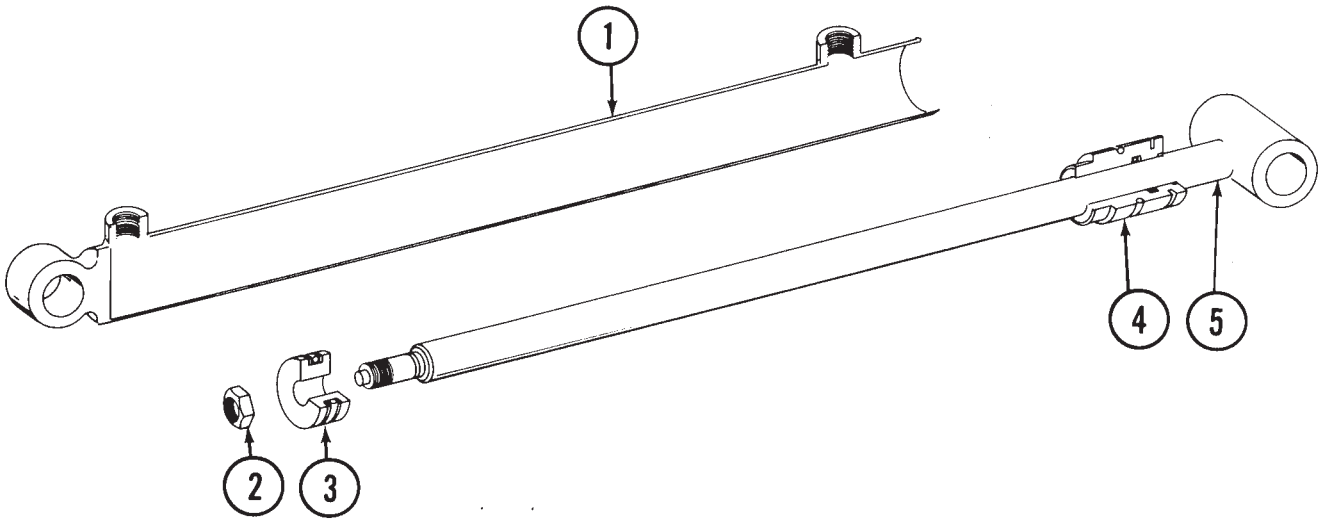
CONVENTIONAL MARKER CYLINDER



ITEM	PART NO.	DESCRIPTION
1.	R157	Cylinder Body
2.	R158	Piston Rod
3.	R159	Hex Nut, 7/8" UNF
4.	R160	Piston
5.	R161	Piston Rod Guide
6.	R162	Clevis Pin w/Clip
	R193	Clip, Hair Pin
*A.	A1674B	Cylinder - Complete 2" x 8"
B.	R154	Seal Kit Includes (1) O-Ring, 3/4" I.D. x 7/8" O.D. (1) O-Ring, 1 1/8" I.D. x 1 3/8" O.D. (1) Back Up Washer (1) Rod Wiper (2) Back Up Washer (2) O-Ring, 1 5/8" I.D. x 2" O.D. (1) Retaining Ring

* To identify - No markings on barrel.

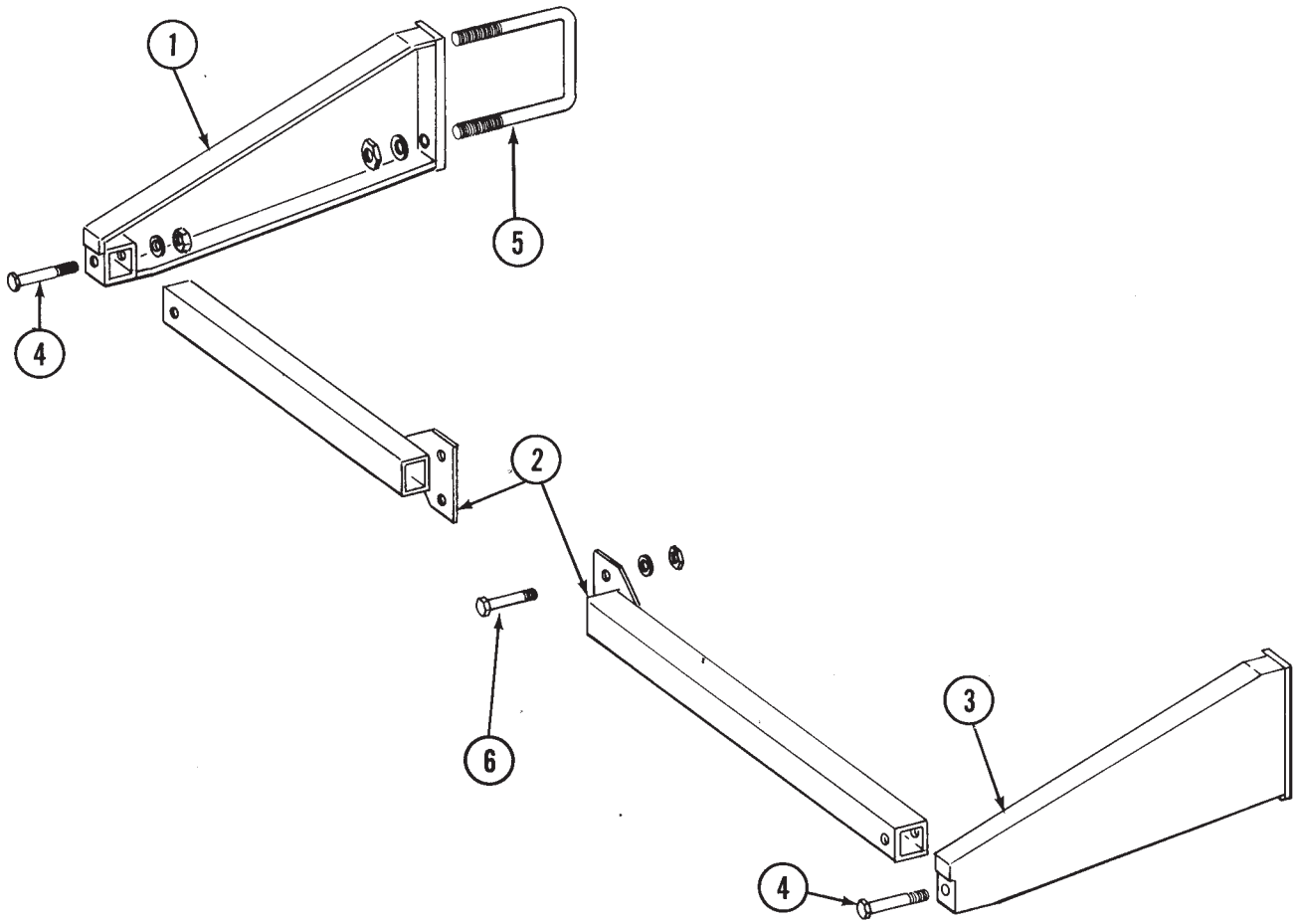
LOW PROFILE - DOUBLE FOLD MARKER CYLINDER



ITEM	PART NO.	DESCRIPTION
1.	R553	Tube Assembly
2.	R366	Nut, 3/4" - 16 NF
3.	R365	Piston
4.	R552	Head Gland
5.	R551	Shaft Assembly
*A.	A1659	Cylinder Assembly, Complete 2" x 20"
B.	R368	Seal Kit Includes (1) O-Ring, 614 I.D. x .754 O.D. (1) O-Ring, 1.109 I.D. x 1.387 O.D. (2) O-Ring, 1.600 I.D. x 2.200 O.D. (1) Back Up Washer, 1 1/8" I.D. x 1 3/8" O.D. (1) Rod Wiper 2" I.D. (1) Retaining Ring Internal 2" (2) Back Up Washer 1 5/8" I.D. x 2" O.D.

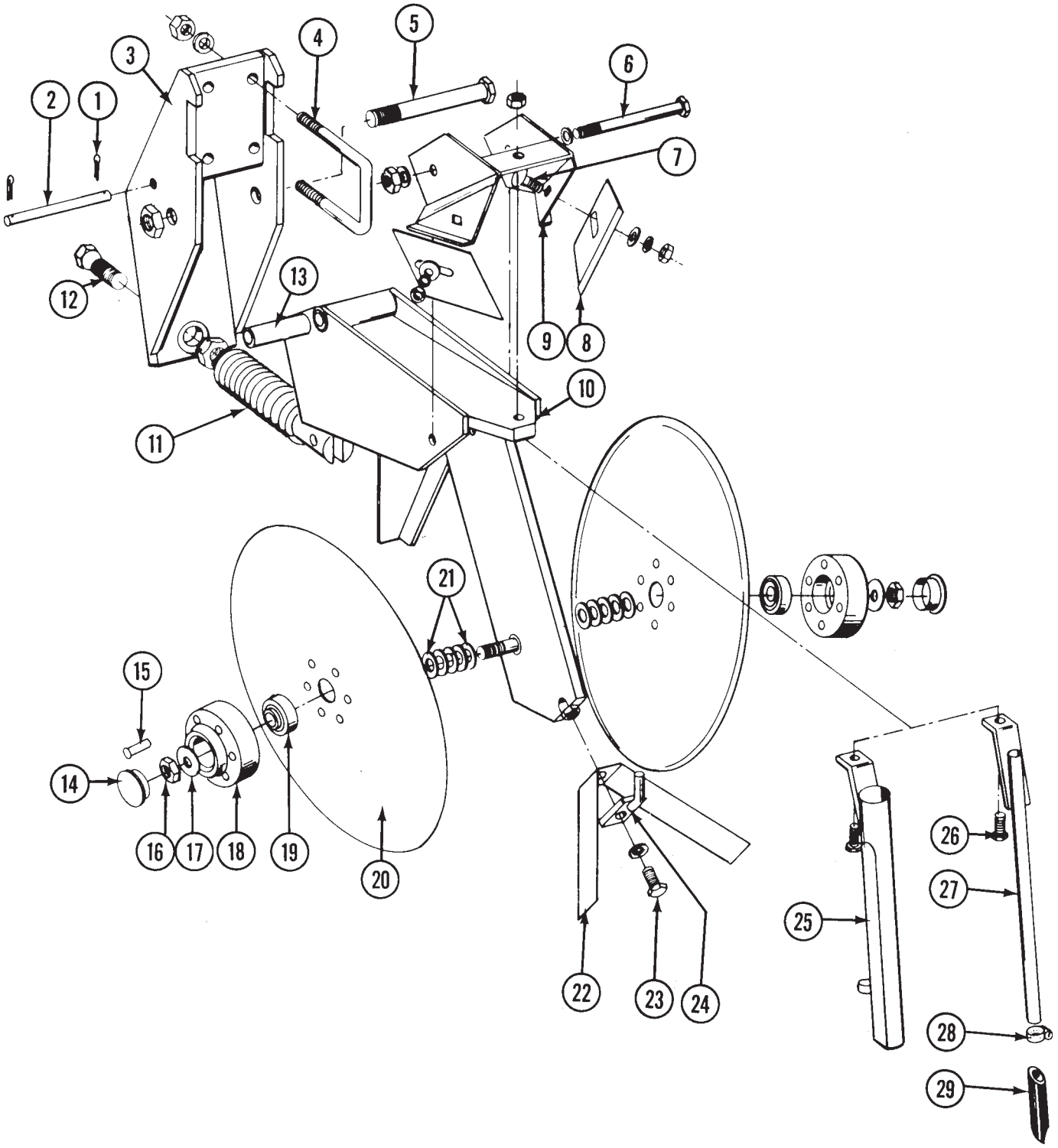
* To identify - DN 13107 stamped on barrel.

FERTILIZER BAR



ITEM	PART NO.	DESCRIPTION
1.	A1872	Support, R.H.
2.	A873	Bar, 56 1/4", 4 Row 30
	A874	Bar, 60 1/4" 4 Row Wide
	A875	Bar, 76 3/4", 6 Row 30
	A876	Bar, 99 1/4" 6 Row Wide
	A877	Bar, 106 3/4", 8 Row 30
	A2501	Bar, 36 3/4", 2 Row
3.	A1873	Support, L.H.
4.	10035	HHCS, 1/2" - 13 x 4"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
5.	D1748	U-Bolt, 7" x 7" x 3/4" - 10
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10
6.	10027	HHCS, 3/4" - 10 x 2 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10

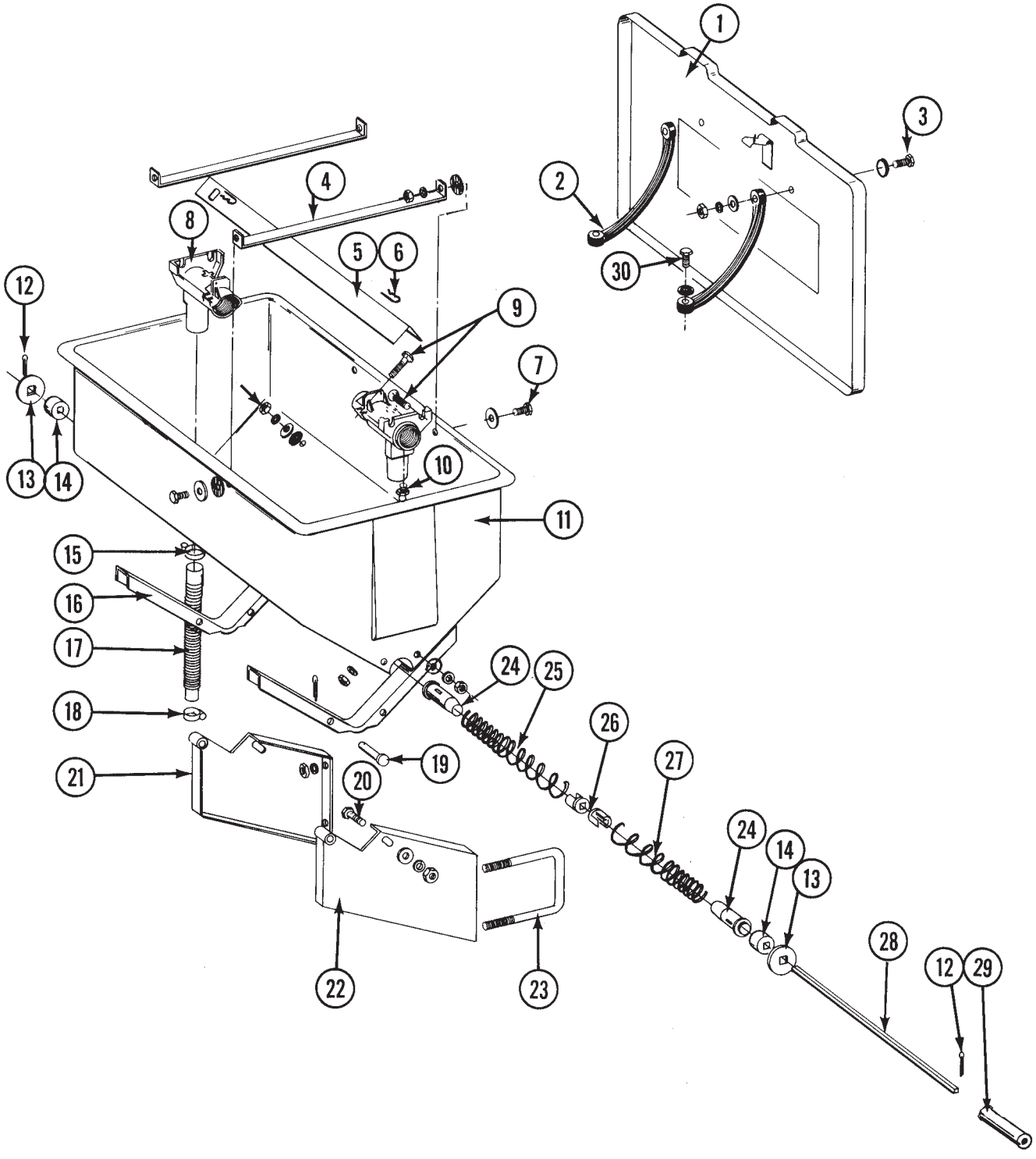
DOUBLE DISK FERTILIZER OPENER



DOUBLE DISK FERTILIZER OPENER

ITEM	PART NO.	DESCRIPTION
1.	10451	Cotter Pin, 1/8" x 1"
2.	D1657	Pin, Lock-Up
3.	A785	Bracket, Mounting
4.	D1339	U-Bolt, 2 1/2" x 2 1/2" x 1/2" - 13
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
5.	10046	HHCS, 5/8" - 11 x 5"
	10107	Lock Nut, 5/8" - 11
6.	10045	HHCS, 1/2" - 13 x 4 1/2"
	10216	Flat Washer, 1/2"
	10111	Lock Nut, 1/2" - 13
7.	10305	Carriage Bolt, 3/8" - 16 x 1"
	10210	Flat Washer, 3/8" USS
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8" - 16
8.	D1673	Scraper
9.	A810	Mount, Scraper
10.	A308	Shank
11.	A328	Spring
12.	D962	Hex Head Adjusting Bolt, 5/8" - 18
	10499	Jam Nut, 5/8" - 18
13.	D487	Bushing
14.	D1132	Cap
15.	10651	Rivet, 1/4" x 1 3/8"
16.	10503	Jam Nut, R.H., 5/8" - 11
	10504	Jam Nut, L.H. 5/8" - 11
17.	10204	Machinery Bushing, 21/32"
18.	B134	Hub
19.	A2014	Bearing
20.	D1030	Blade
21.	10213	Machine Bushing, 11/16"
22.	D2589	Scraper, Inner
23.	10019	HHCS, 5/16" - 18 x 1"
	10232	Lock Washer, 5/16"
24.	A312	Mount
25.	A1369	Drop Tube, Dry Fertilizer
26.	10133	HHCS, 5/16" - 18 x 1 1/2"
	10109	Lock Nut, 5/16" - 18
27.	A318	Drop Tube, Liquid Fertilizer
28.	10673	Clamp, Hose
29.	D1797	Extension
A.	A320	Disk and Bearing Assembly (Items 15, 18-20)
B.	6156X	Double Disk Fertilizer Open with U-Bolts, less Drop Tubes

DRY FERTILIZER HOPPER AND MOUNT

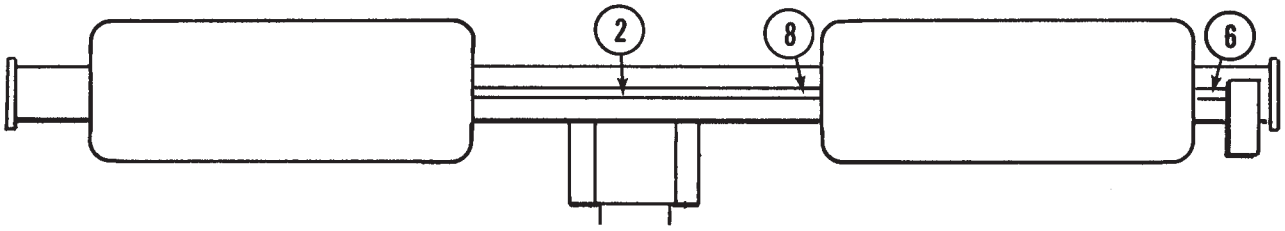


DRY FERTILIZER HOPPER AND MOUNT

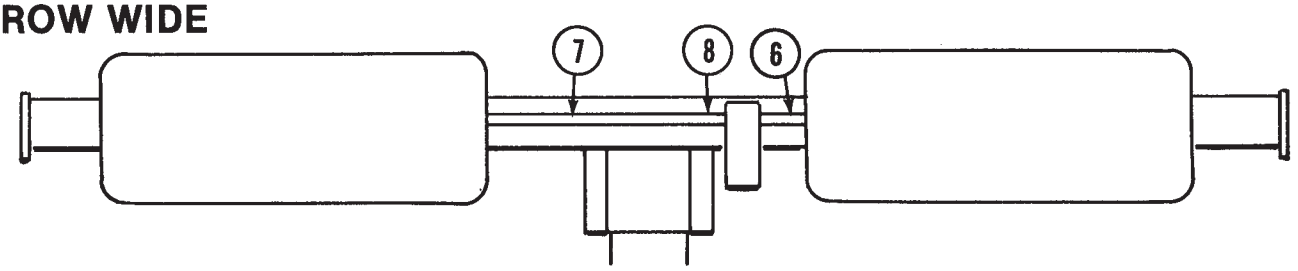
ITEM	PART NO.	DESCRIPTION
1.	A2101	Lid, Includes Clips and Pop Rivets
	D1380	Clip
	10655	Pop Rivet, 3/16" x 13/32"
2.	D1210	Strap, Rubber
3.	10171	HHCS, 5/16" - 18 x 1 1/4"
	10219	Washer, 5/16" USS
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
4.	D1209	Strap, Reinforcing
5.	D1207	Baffle
6.	10670	Hair Pin Clip, No. 3
7.	10171	HHCS, 5/16" - 18 x 1 1/4"
	10201	Washer, Special
	D1213	Washer, Rubber
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
8.	D1200	Housing, Outlet
9.	10303	Carriage Bolt, 5/16" - 18 x 1", Grade 2
	10219	Washer, 5/16" USS
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
10.	10641	Grease Fitting, 1/8" NPT, 45°
11.	D1379	Hopper
12.	10464	Cotter Pin, 3/16" x 1"
13.	D1212	Washer, Special
14.	D1206	Bearing
15.	10676	Clamp, No. 36
16.	D1208	Saddle
17.	D3790	Tube, Rubber
18.	10672	Clamp, No. 28
19.	10561	Clevis Pin, 1/2" x 3"
	10451	Cotter Pin, 1/8" x 1"
20.	10037	HHCS, 1/2" - 13 x 1 1/4"
	10206	Washer, 1/2" SAE
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
21.	A864	Mount, Hopper R.H.
22.	A863	Mount, Hopper L.H.
23.	D1114	U-Bolt, 7" x 7" x 5/8" - 11
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8" - 11
24.	D1202	Guide
25.	D1204	Spring R.H., Regular Rate
	D4476	Spring, R.H., High Rate
26.	D1203	Plug
27.	D1205	Spring, L.H., Regular Rate
	D4477	Spring, L.H., High Rate
28.	D1201	Shaft
29.		Drive Coupler (See Dry Fertilizer Coupler pages)
30.	10133	HHCS, 5/16" - 18 x 1 1/2"
	10219	Washer, 5/16" USS
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18

DRY FERTILIZER COUPLERS

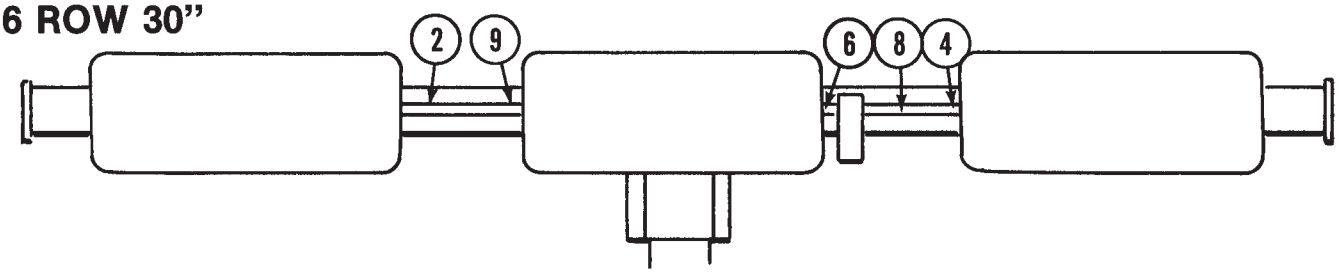
4 Row 30"



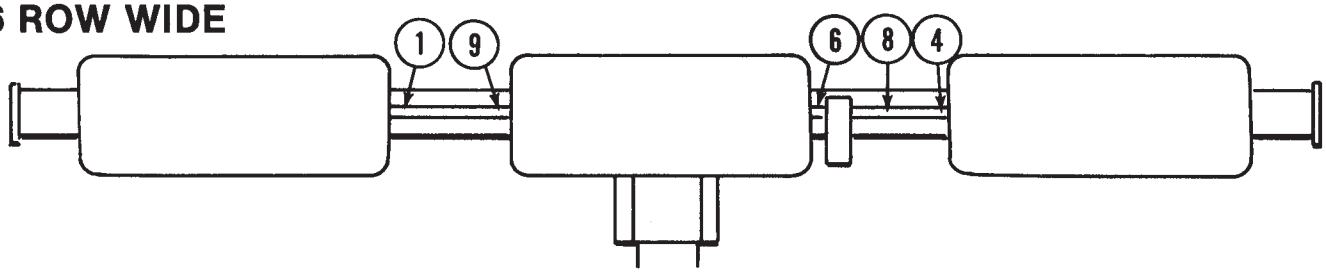
4 ROW WIDE



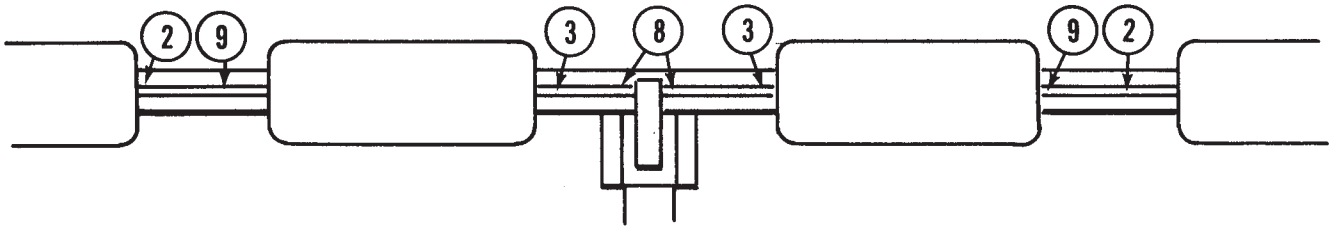
6 ROW 30"



6 ROW WIDE

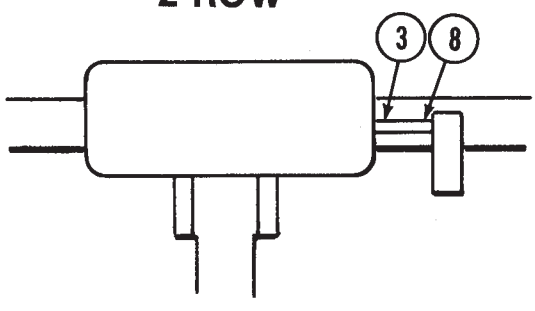


8 Row 30"

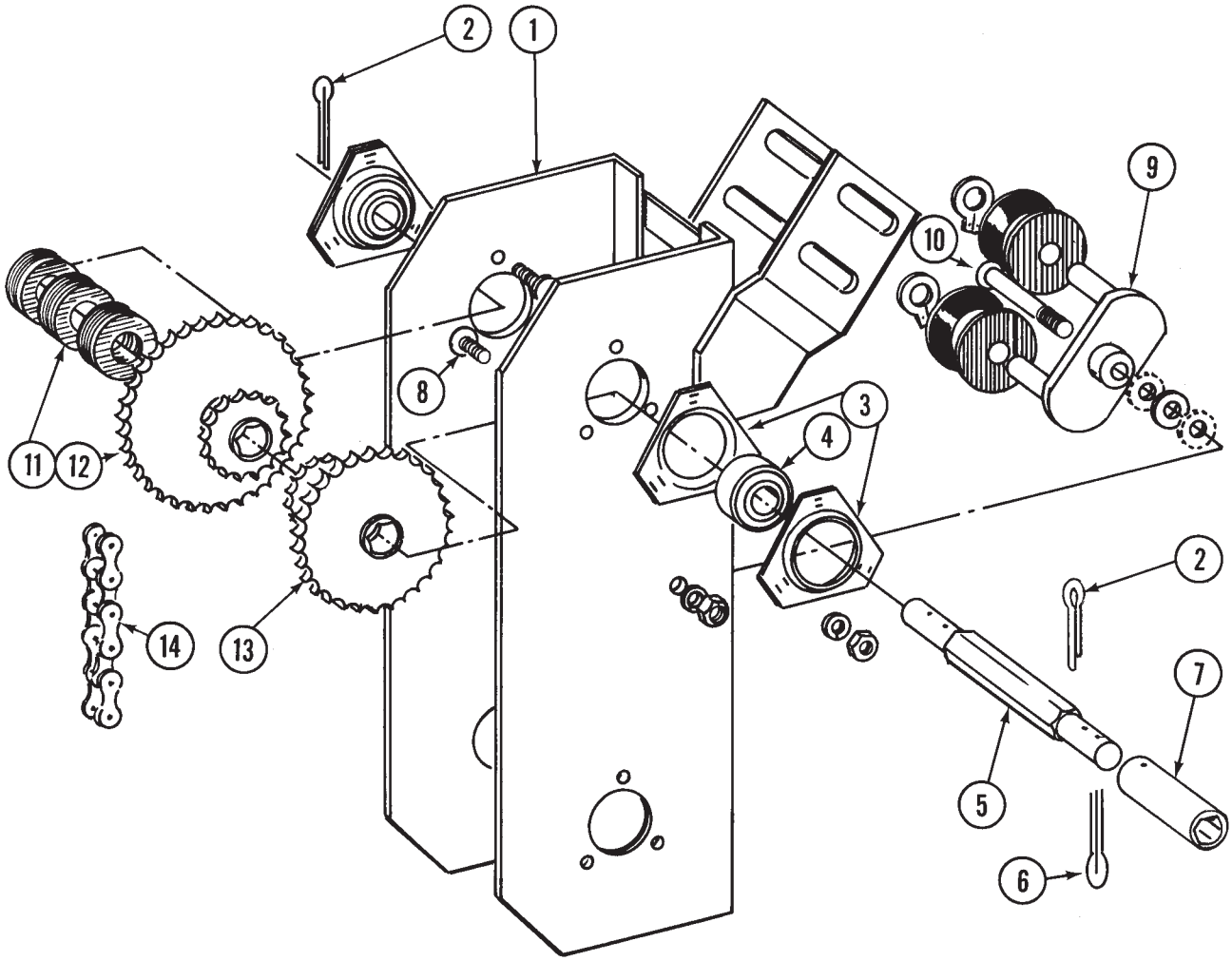


ITEM	PART NO.	DESCRIPTION
1.	A2315	Coupler, 30 5/8"
2.	A2309	Coupler, 16 1/8"
3.	A2305	Coupler, 4 5/8"
4.	A2312	Coupler, 23 1/8"
5.	A2306	Coupler, 7 5/8"
6.	D2948	Coupler, 1 5/8"
7.	A2311	Coupler, 22"
8.	D2769	Insert, Round
9.	D2768	Insert, Square

2 ROW



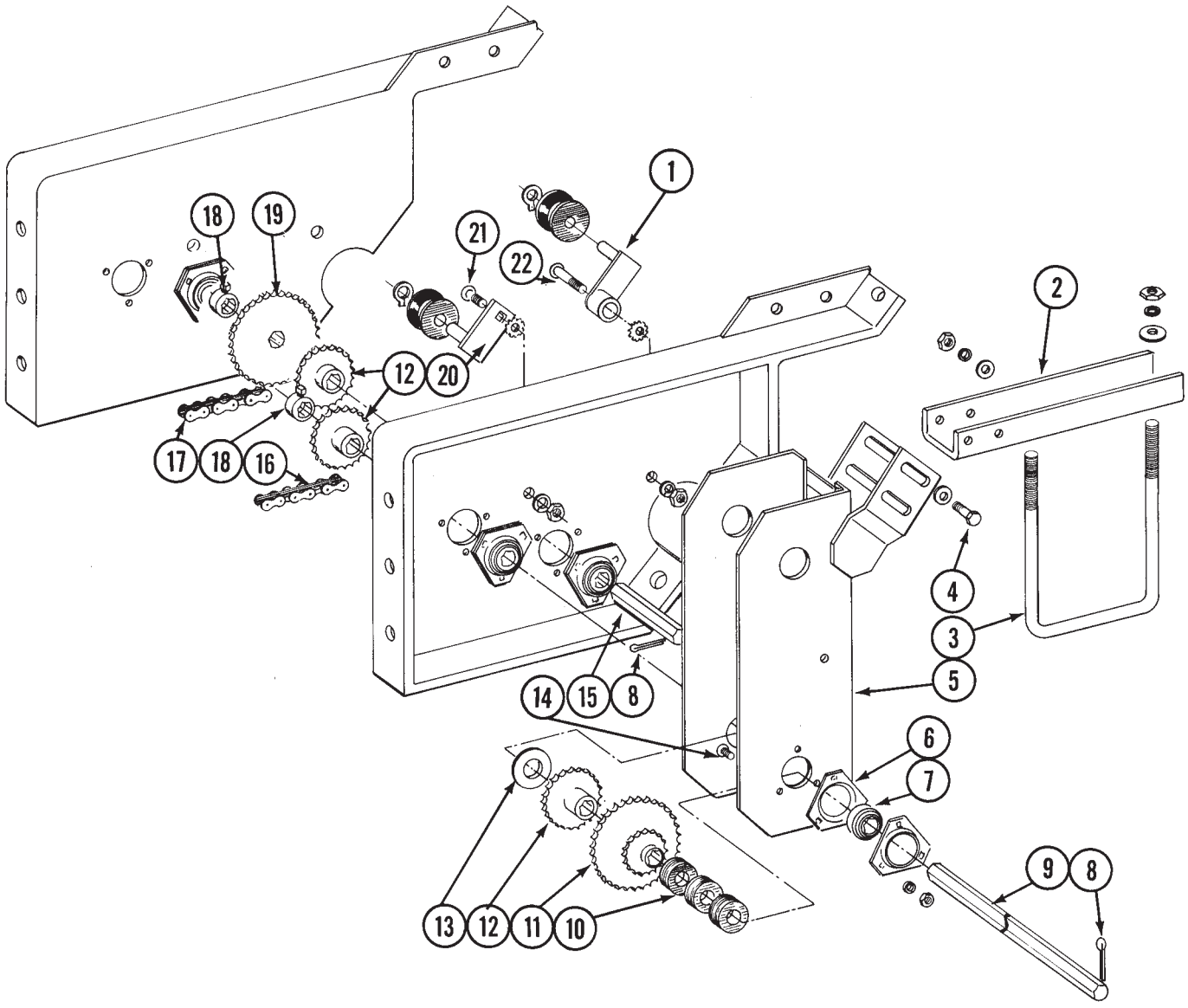
DRY FERTILIZER TRANSMISSION



ITEM	PART NO.	DESCRIPTION
1.	A859	Case, Transmission
2.	10459	Cotter Pin, 3/16" x 1 1/2"
3.	3400-1	Flangette
4.	2100-3	Bearing, 7/8" Hex Bore
5.	D943	Shaft, Upper
6.	10462	Cotter Pin, 3/16" x 2"
7.		Coupler (See Dry Fertilizer Coupler Pages)
8.	10312	Carriage Bolt, 5/16" - 18 x 3/4"
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
9.	A294	Idler w/Spools and Rings
	D1067	Spool
	10435	Ring
10.	10314	Carriage Bolt, 1/2" - 13 x 3"
	10527	Lock Washer, Int./Ext., 1/2"
	10216	Washer, 1/2" USS
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
11.	D832	Spacer, Rubber
12.	2500-12	Sprocket, 18T-36T
13.	2500-3	Sprocket, 16T-30T
14.	3300-44	Chain, No. 2040, 44 Pitch Including Connector Link
	R194	Connector Link, No. 2040

DRY FERTILIZER DRIVE

2, 4 and 6 ROW MODELS



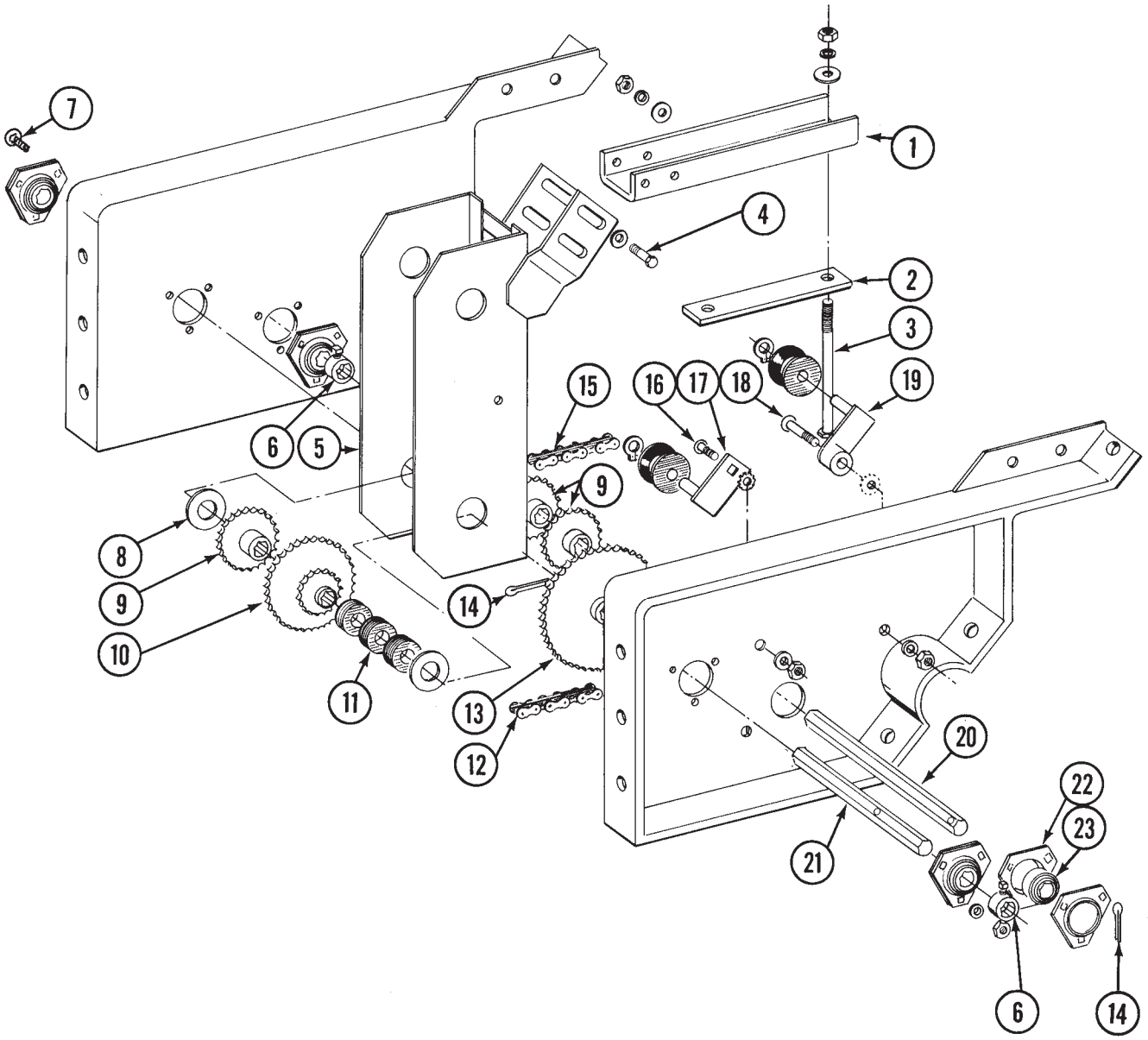
DRY FERTILIZER DRIVE

2, 4 and 6 ROW MODELS

ITEM	PART NO.	DESCRIPTION
1.	A582	Idler w/Spool and Ring
	D1067	Spool
	10435	Ring
2.	D1736	Bracket, Transmission Mounting
3.	D1114	U-Bolt, 7" x 7" x 5/8" - 11
	10217	Washer, 5/8" USS
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8" - 11
4.	10001	HHCS, 3/8" - 16 x 1"
	10210	Washer, 3/8" USS
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8" - 16
5.	A859	Case, Transmission
6.	3400-1	Flangette
7.	2100-3	Bearing, 7/8" Hex Bore
8.	10465	Cotter Pin, 1/4" x 1 1/4"
9.	D1750	Shaft, 12", 4 Row Wide
	D1753	Shaft, 30", 6 Row Models
	D3162	Shaft, 59 1/2" 4 Row 30
	D3226	Shaft, 33", 2 Row
10.	D832	Spacer, Rubber
11.	2500-12	Sprocket, 18T-36T
12.	2500-14	Sprocket, 24T
13.	10200	Washer, 1" USS
14.	10312	Carriage Bolt, 5/16" - 18 x 3/4"
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
15.	D1751	Shaft, 10"
16.	3300-26	Chain, No. 2040, 26 Pitch Including Connector Link
	R194	Connector Link, No. 2040
17.	3300-50	Chain, No. 2040, 50 Pitch Including Connector Link
	R194	Connector Link, No. 2040
18.	D917	Lock Collar Less Set Screws
	10145	Set Screws, 5/16" - 18 x 1/2"
19.	B138	Sprocket, 48T
20.	A883	Idler w/Spool and Ring
	D1068	Spool
	10435	Ring
21.	10313	Carriage Bolt, 1/2" - 13 x 1 1/2"
	10527	Washer, Int./Ext., 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
22.	10314	Carriage Bolt, 1/2" - 13 x 3"
	10527	Washer, Int./Ext., 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13

DRY FERTILIZER DRIVE

8 ROW MODELS

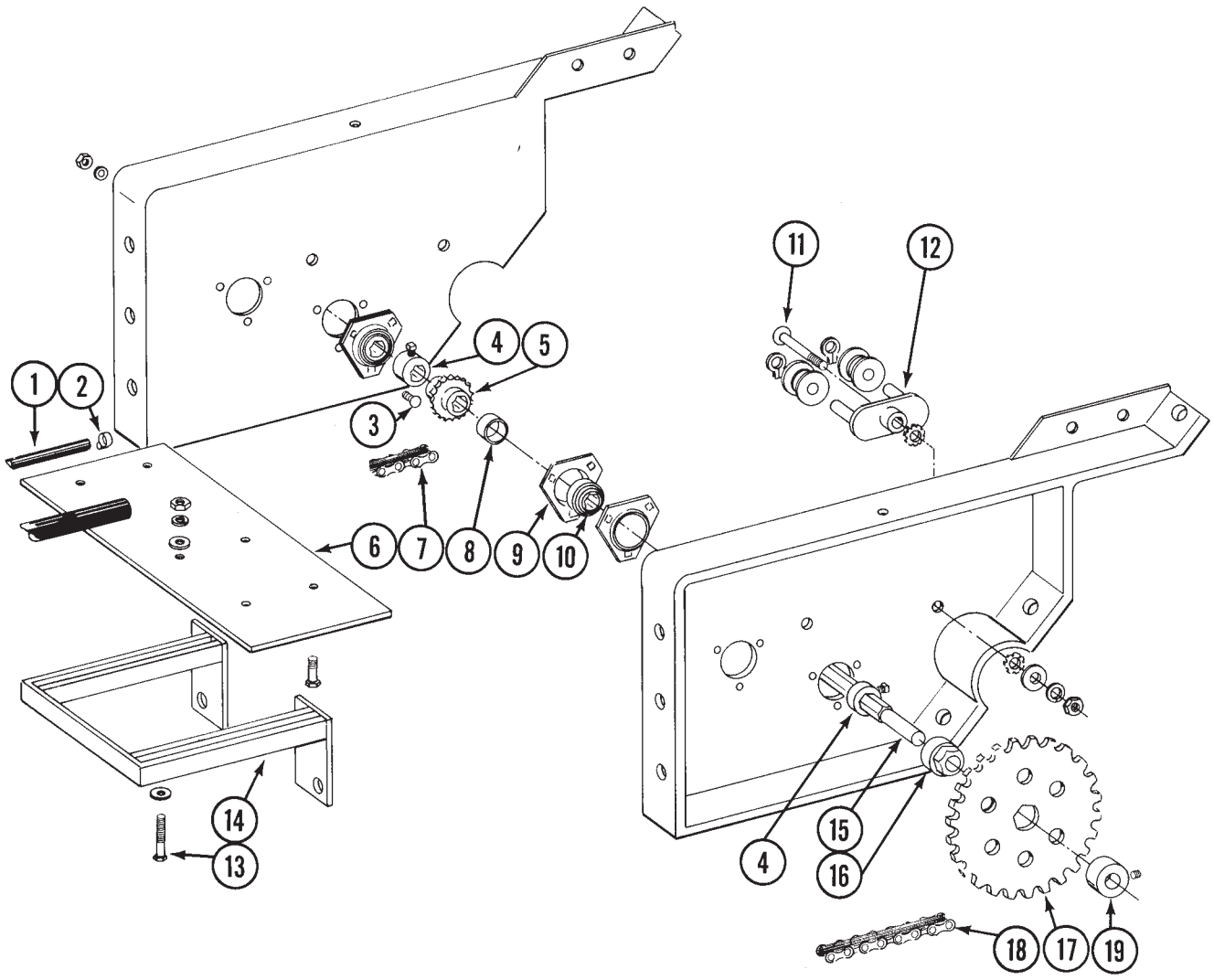


DRY FERTILIZER DRIVE

8 ROW MODELS

ITEM	PART NO.	DESCRIPTION
1.	D1736	Bracket, Transmission Mounting
2.	D1908	Bracket, Mounting
3.	10093	HHCS, 5/8" - 11 x 8 1/2"
	10217	Washer, 5/8" USS
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8" - 11
4.	10001	HHCS, 3/8" - 16 1"
	10210	Washer, 3/8" USS
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8" - 16
5.	A859	Case, Transmission
6.	D917	Lock Collar, Less Set Screw
	10145	Set Screw, 5/16" - 18 x 1/2"
7.	10312	Carriage Bolt, 5/16" - 18 x 3/4"
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
8.	10200	Washer, 1" USS
9.	2500-14	Sprocket, 24T
10.	2500-12	Sprocket, 18T-36T
11.	D832	Spacer, Rubber
12.	3300-32	Chain, No. 2040, 32 Pitch Including Connector Link
	R194	Connector Link, No. 2040
13.	B138	Sprocket, 48T
14.	10465	Cotter Pin, 1/4" x 1 1/4"
15.	3300-43	Chain, No. 2040, 43 Pitch Including Connector and Offset Link
	R194	Connector Link, No. 2040
	R199	Offset Link, No. 2040
16.	10313	Carriage Bolt, 1/2" - 13 x 1 1/2"
	10527	Washer, Int./Ext., 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
17.	A883	Idler w/Spool and Ring
	D1068	Spool
	10435	Ring
18.	10314	Carriage Bolt, 1/2" - 13 x 3"
	10527	Washer, Int./Ext., 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
19.	A582	Idler w/Spool and Ring
	D1067	Spool
	10435	Ring
20.	D1751	Shaft, 10"
21.	D1907	Shaft, 12"
22.	3400-1	Flangette
23.	2100-3	Bearing, 7/8" Hex Bore

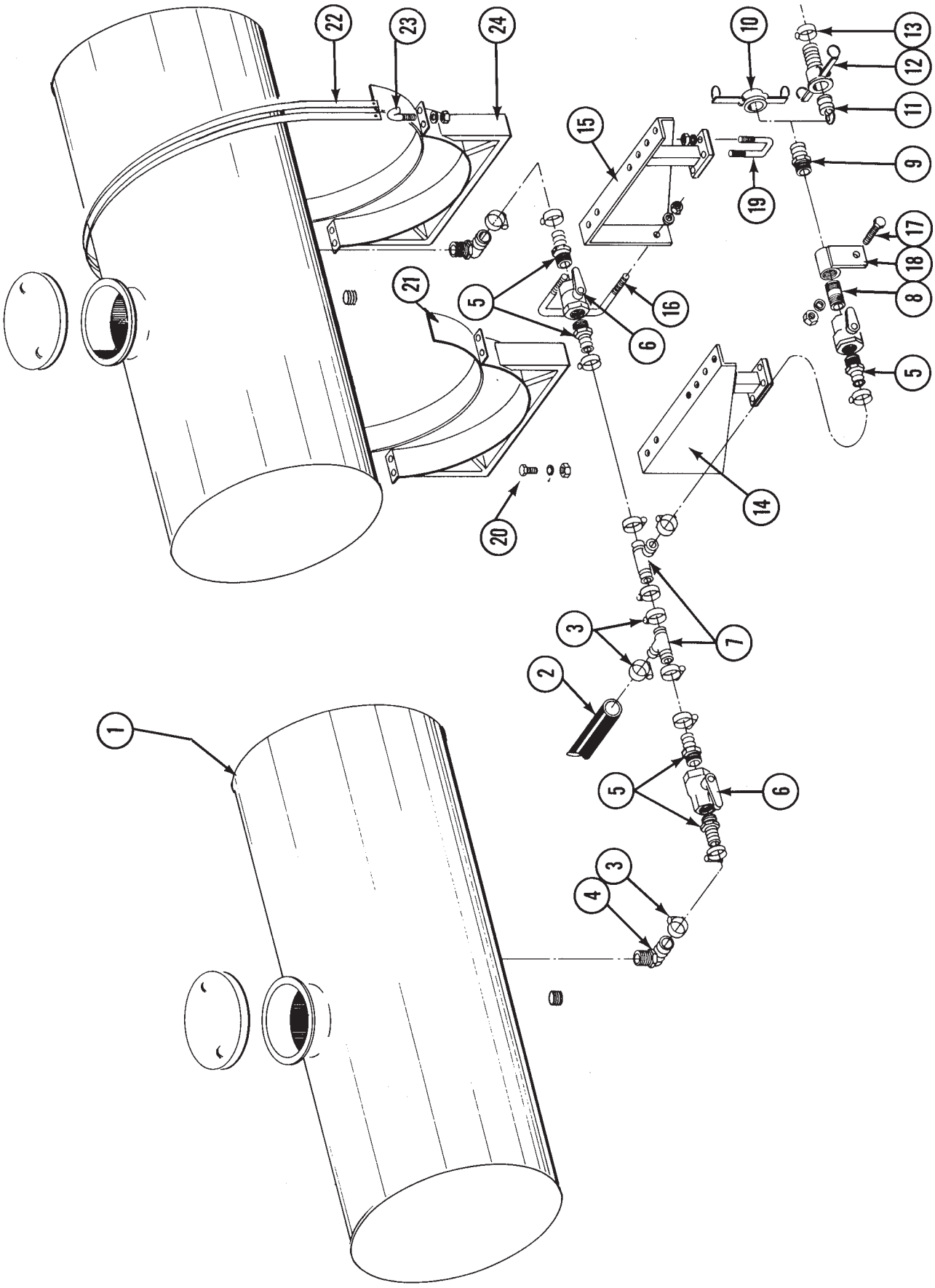
LIQUID FERTILIZER DRIVE



LIQUID FERTILIZER DRIVE

ITEM	PART NO.	DESCRIPTION
1.	4300-3	Hose, 1/2" x 30', 4 Row
	4300-4	Hose, 1/2" x 50', 6 Row
	4300-5	Hose, 1/2" x 100', 8 Row
2.	10673	Clamp, No. 8
3.	10303	Carriage Bolt, 5/16" - 18 x 1"
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
4.	D917	Lock Collar, Less Set Screws
	10145	Set Screw, 5/16" - 18 x 1/2"
5.	2500-14	Sprocket, 24T
6.	D1714	Plate, Squeeze Pump (8 Row 30 Only)
7.	3300-43	Chain, No. 2040, 43 Pitch Including Connector and Offset Link
	R194	Connector Link, No. 2040
	R199	Offset Link, No. 2040
8.	D1199-2	Spacer, 3/4"
9.	3400-1	Flangette
10.	2100-3	Bearing, 7/8" Hex Bore
11.	10314	Carriage Bolt, 1/2" - 13 x 3"
	10527	Washer, Int./Ext., 1/2"
	10216	Washer, 1/2" USS
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
12.	A294	Idler w/Spools and Rings
	D1067	Spool
	10435	Ring
13.	10066	HHCS, 7/16" - 14 x 2"
	10199	Washer, 7/16" SAE
	10237	Lock Washer, 7/16"
	10100	Hex Nut, 7/16" - 14
14.	A549	Bracket, Mounting
15.	D1248	Shaft, 16"
16.	D1216	Adapter, Less Roll Pin, With Set Screws
	10600	Roll Pin, 5/16" x 2 1/4"
	10120	Set Screws, 3/8" - 16 x 1/2"
17.	D1217	Sprocket, 8T
	D1218	Sprocket, 9T
	D1219	Sprocket, 10T
	D1220	Sprocket, 15T
	D1221	Sprocket, 22T
	D1222	Sprocket, 23T
	D1223	Sprocket, 26T
	D1225	Sprocket, 31T
18.	3300-75	Chain, No. 2040, 75 Pitch Including Connector and Offset Link
	R194	Connector Link, No. 2040
	R199	Offset Link, No. 2040
19.	D1215	Retainer, w/Set Screws
	10120	Set Screw, 3/8" - 16 x 1/2"
A.	6486X	Sprocket and Adapter Package Includes: (2) 10600, (2) D1215, (2) D1216, (1) D1217, (1) D1218, (1) D1219, (1) D1220, (1) D1221, (1) D1222, (1) D1223, (1) D1225

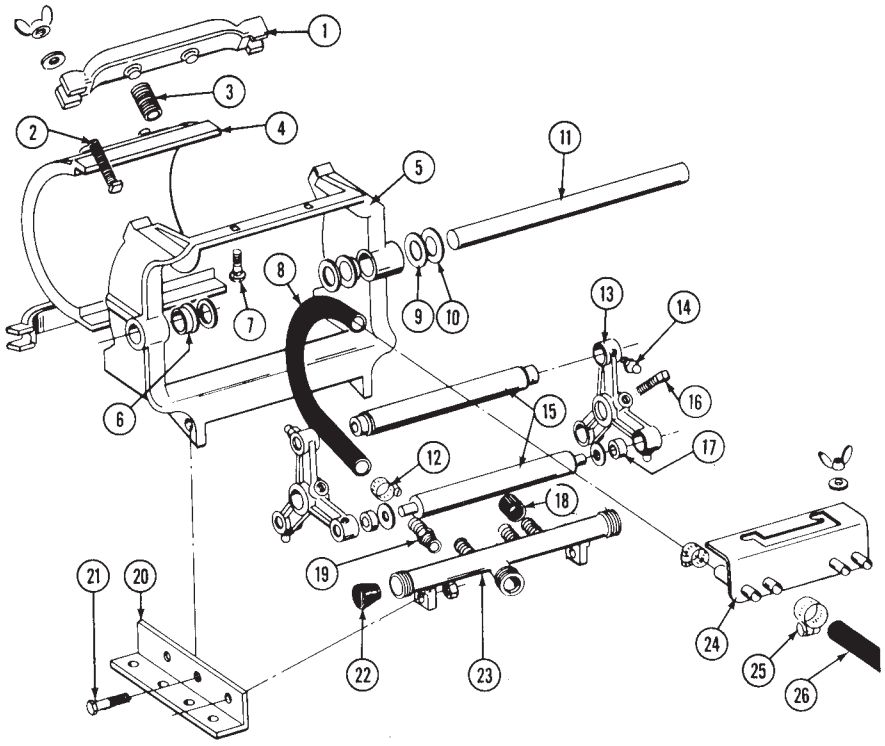
LIQUID FERTILIZER TANKS AND MOUNTING BRACKETS



LIQUID FERTILIZER TANKS AND MOUNTING BRACKETS

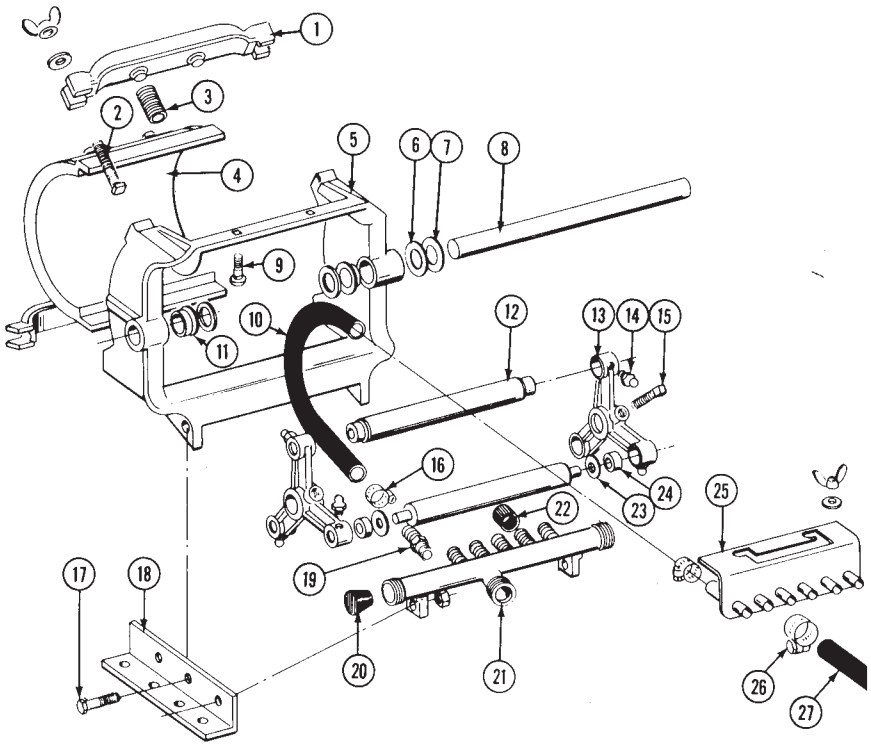
ITEM	PART NO.	DESCRIPTION
1.	A2203	Tank w/Lid and 1 1/4" Tank Fitting Assembly, 24" x 110 gallon
	D2728	1 1/4" Tank Fitting Assembly
	D1340	Lid, 5" w/Splash Guard
2.	4200-1	Hose, 1 1/4" x 22', 4 Row
	4200-2	Hose, 1 1/4" x 27', 6 Row
	4200-3	Hose, 1 1/4" x 32', 8 Row
3.	10674	Clamp, No. 24
4.	10742	Elbow, 90°, 1 1/4" NPT to 1 1/4" Barb
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.	10094	Pipe Nipple, 1 1/4" x 3"
9.	D1514	Q Cam, 1 1/4"
10.	D1515	Cap, 1 1/4"
11.	D1517	Plug
12.	D1516	QCHB, 1 1/4"
13.	10672	Clamp, No. 28
14.	A878	Bracket, R.H.
15.	A879	Bracket, L.H.
16.	D1114	U-Bolt, 5/8 - 11 x 7" x 7"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8" - 11
17.	10032	HHCS, 1/2" - 13 x 3 3/4"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
18.	A918	Mount, Quick Fill
19.	D1339	U-Bolt, 1/2" - 13 x 2 1/2" x 2 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
20.	10017	HHCS, 1/2" - 13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2" - 13
21.	D1807	Tank Pad, 6" Width (14' Roll)
22.	D1335	Band, 24"
23.	D1337	J-Bolt, 5/16"
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
24.	A919	Saddle, 24", 4 Row Models
	A937	Saddle, 30", 6 Row and 8 Row Models

LIQUID FERTILIZER SQUEEZE PUMP - 4 ROW MODEL



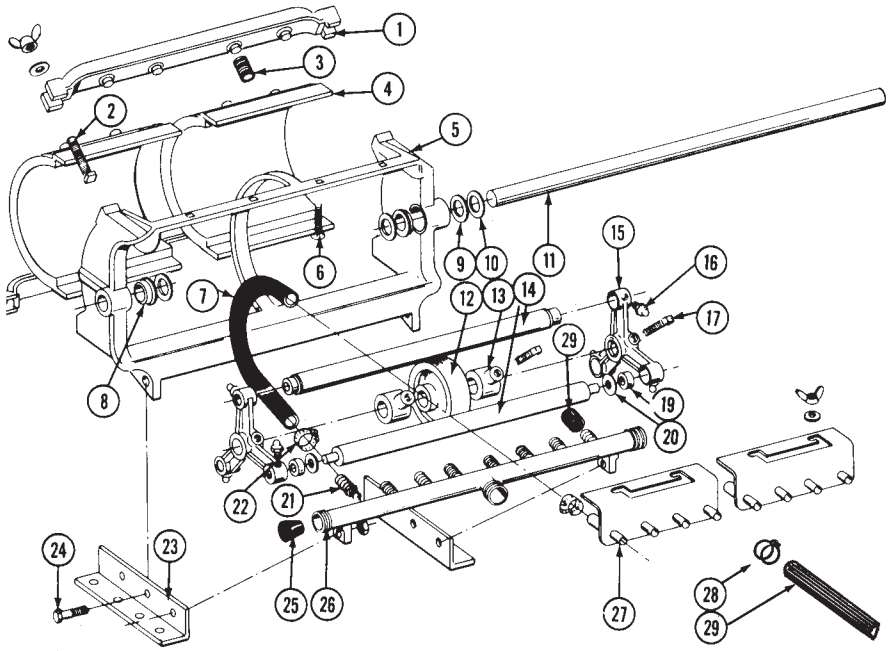
ITEM	PART NO.	DESCRIPTION
1.	R216	Spring Anchor Bar
2.	10130	Sq. Head Machine Bolt, 5/16" - 18 x 1 3/4"
	10219	Washer, 5/16" USS
	10144	Wing Nut, 5/16" - 18
3.	R214	Spring
4.	R212	Plate
5.	R208	Frame
6.	R207	Bushing (Nylon)
7.	10303	Round Head Machine Bolt, 5/16" - 18 x 1"
	10219	Washer, 5/16" USS
	10144	Wing Nut, 5/16" - 18
8.	R215	Metering Hose, 1/2" x 13"
9.	R225	Shim 1/32"
10.	R226	Shim, 3/64"
11.	R210	Shaft
12.	10681	Clamp, No. 6
13.	R223	Roller Arm
14.	10640	Grease Fitting, 1/4" - 28
15.	R209	Roller
16.	10131	Set Screw, 5/16" - 18 x 3/4"
17.	R227	Bushing, Nylon
18.	R211	Rubber Cap
19.	R232	Hose Adapter
20.	R213	Base Angle
21.	10004	HHCS, 3/8" - 16 x 1 1/4"
	10101	Hex Nut, 3/8" - 16
22.	R217	Manifold Plug
23.	R228	Intake Manifold
24.	R224	Discharge Manifold
25.	10673	Clamp, No. 8
26.	4300-3	Hose, 1/2" x 30'
A.	A321	Squeeze Pump Complete

LIQUID FERTILIZER SQUEEZE PUMP - 6 ROW MODEL



ITEM	PART NO.	DESCRIPTION
1.	R216	Spring Anchor Bar
2.	10130	Square Head Machine Bolt, 5/16" - 18 x 1 3/4"
	10219	Washer, 5/16" USS
	10144	Wing Nut, 5/16" - 18
3.	R214	Spring
4.	R212	Plate
5.	R208	Frame
6.	R225	Shim, 1/32"
7.	R226	Shim, 3/64"
8.	R210	Shaft
9.	10303	Round Head Machine Bolt, 5/16" - 18 x 1"
	10219	Washer, 5/16" USS
	10144	Wing Nut, 5/16" - 18
10.	R215	Metering Hose, 1/2" x 13"
11.	R207	Bushing, Nylon
12.	R233	Roller
13.	R231	Roller Arm
14.	10640	Grease Fitting, 1/4" - 28
15.	10131	Set Screw, 5/16" - 18 x 3/4"
16.	10681	Clamp, No. 6
17.	10004	HHCS, 3/8" - 16 x 1 1/4"
	10101	Hex Nut, 3/8" - 16
18.	R213	Base Angle
19.	R232	Hose Adapter
20.	R217	Manifold Plug
21.	R228	Intake Manifold
22.	R211	Rubber Cap
23.	R229	Washer, Nylon
24.	R230	Bearing, Roller
25.	R224	Discharge Manifold
26.	10673	Clamp, No. 8
27.	4300-4	Hose, 1/2" x 50'
A.	A322	Squeeze Pump Complete

LIQUID FERTILIZER SQUEEZE PUMP - 8 ROW MODEL



ITEM	PART NO.	DESCRIPTION
1.	R221	Spring Anchor Bar
2.	10130	Square Head Machine Bolt, 5/16" - 18 x 1 3/4"
	10219	Flat Washer, 5/16'
	10144	Wing Nut, 5/16" - 18
3.	R214	Spring
4.	R212	Plate
5.	R222	Frame
6.	10303	Round Head Machine Bolt, 5/16" - 18 x 1"
	10219	Washer, 5/16" USS
	10144	Wing Nut, 5/16" - 18
7.	R215	Metering Hose, 1/2" x 13"
8.	R207	Bushing, Nylon
9.	R225	Shim, 1/32"
10.	R226	Shim, 3/64"
11.	R220	Shaft
12.	R281	Back Up Roller
13.	R282	Set Collar
14.	R283	Roller
15.	R231	Roller Arm
16.	10640	Grease Fitting, 1/4" - 28
17.	10131	Set Screw, 5/16" - 18 x 3/4"
18.	R211	Rubber Cap
19.	R230	Bearing
20.	R229	Washer, Nylon
21.	R232	Hose Adapter
22.	10681	Clamp, No. 6
23.	R279	Base Angle, Left
	R280	Base Angle, Right
24.	10004	HHCS, 3/8" - 16 x 1 1/4"
	10101	Hex Nut, 3/8" - 16
25.	R217	Manifold Plug
26.	R284	Intake Manifold
27.	R236	Discharge Manifold
28.	10673	Clamp, No. 8
29.	4300-5	Hose, 1/2" x 100'
A.	A323	Squeeze Pump Complete

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