

P.O. BOX 85
LAURIER, MANITOBA
R0J 1A0
204-447-2245

TO THE OWNER:

Congratulations on the purchase of your new LAURIER HARROW PACKER BAR.

Constructed of the finest quality materials, your LAURIER HARROW PACKER BAR is engineered and designed to do normal harrowing and packing operations effectively and efficiently, and to provide you with years of dependable service.

Be sure to read the instructions in this manual for adjusting and operating your LAURIER HARROW PACKER BAR. A few moments to acquaint yourself with the LAURIER HARROW PACKER BAR and its maintenance requirements will save you precious time in the field and protect your machinery investment. Should you in time, need replacement parts, please consult the parts list in this manual, and contact your LAURIER DEALER.

LAURIER MANUFACTURING LIMITED

It is the policy of LAURIER MANUFACTURING LIMITED to improve its products whenever it is possible and practical. We reserve the right to make changes or add improvements, at any time, without incurring any obligation to make such changes on machines previously sold.

TABLE OF CONTENTS

ITEM	PAGE
Letter to Owner.....	
Policy	
Set-up & Parts Section.....	1
Operator's Instructions.....	29
Parts Index.....	30
Warranty	

NOTE: Left and right determined when facing rear of machine.

A. Loosely bolt steps B, C, D and E until centre tube is installed, then tighten all bolts.

B. Bolt left and right hitches to left and right hitch tubes.

C. Place cross member in place and bolt to left and right hitches.

D. Bolt cross angle to left and right hitches.

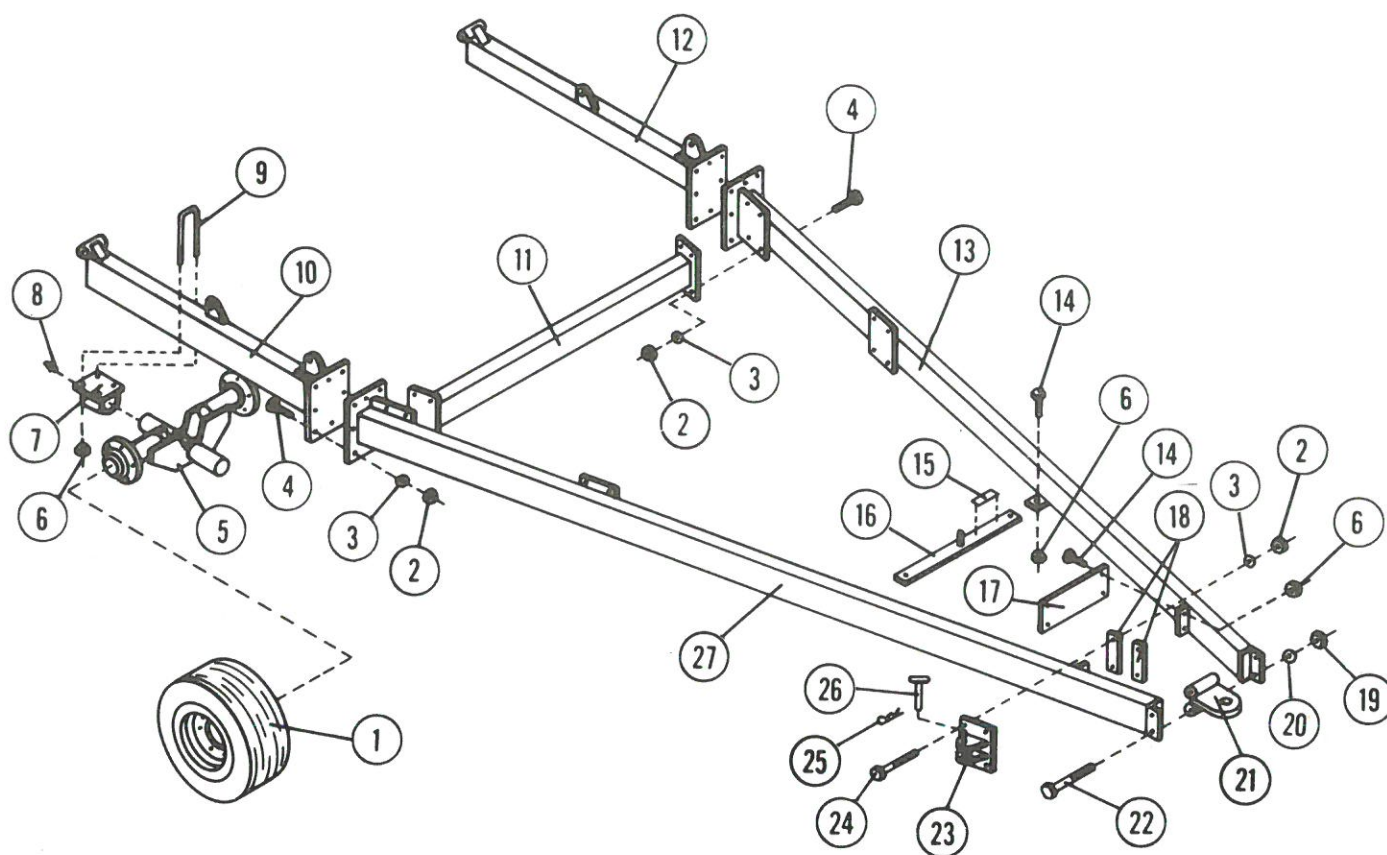
E. Bolt on items #17, 18, 23, 24, 25 and 26 only if sprayer attachment is used, otherwise follow auto fold instructions.

F. Install bolt on draw hitch to left and right hitches.

G. Install wheels and rims on oscillating axles.

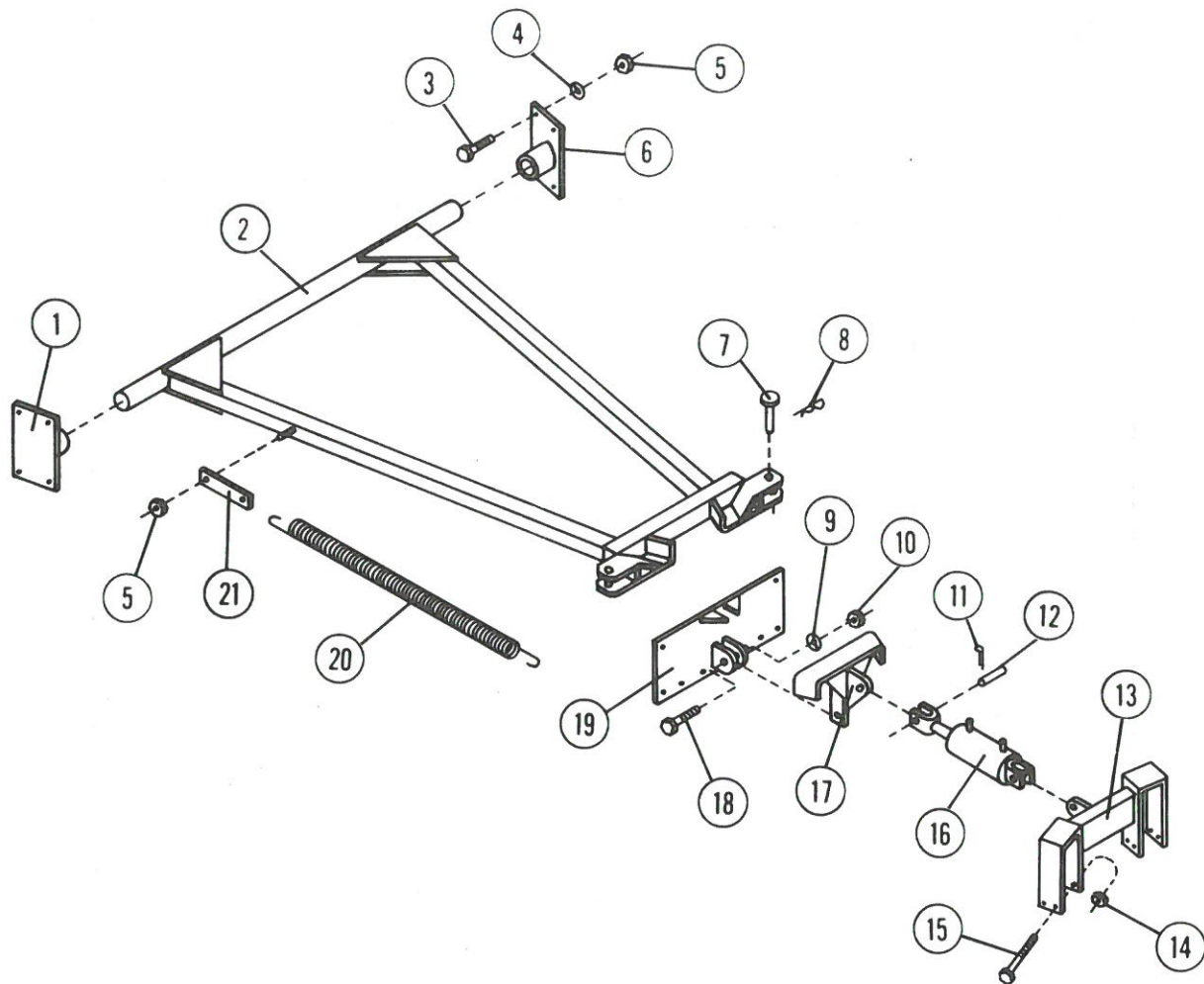
H. Bolt axles to left and right hitch tubes, 23" from pivot hinge on hitch tubes to centre of wheel axle.

I. Use only bolts that are called out in diagrams.



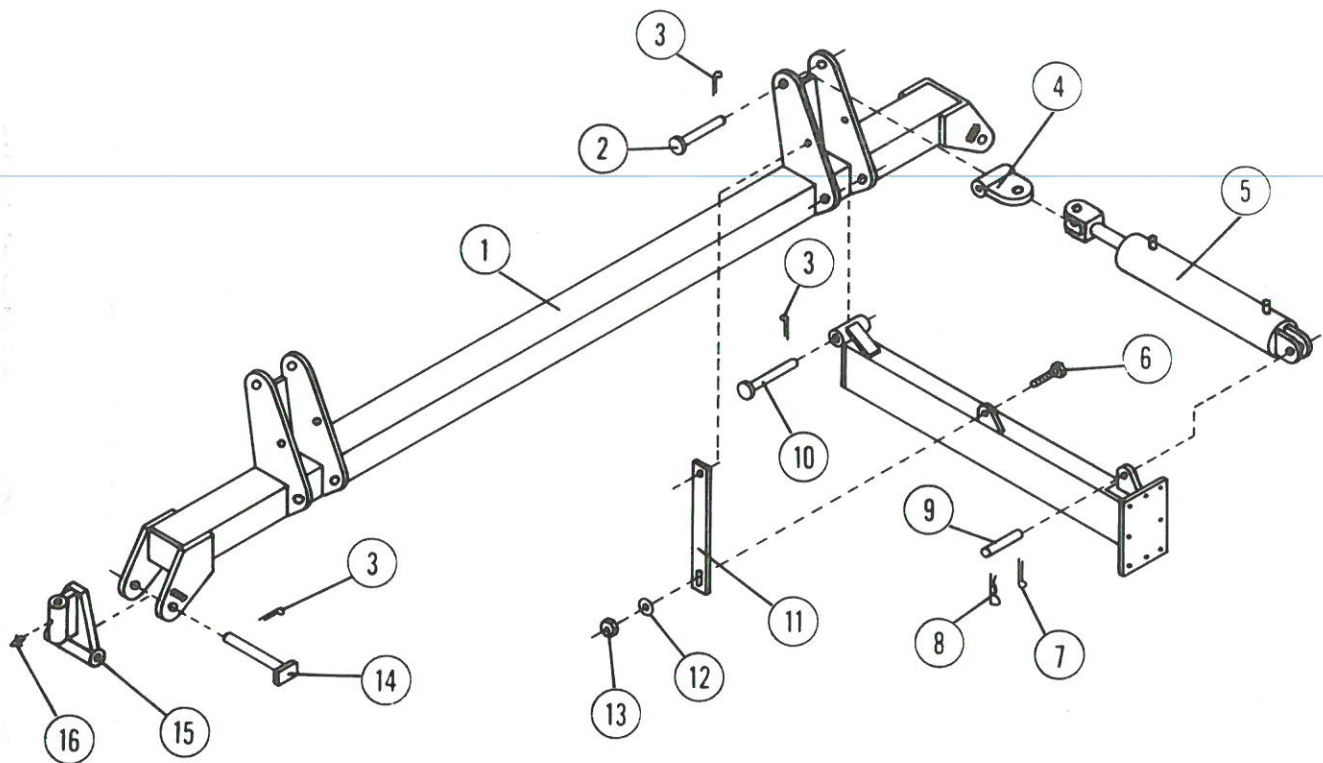
ITEM	PART NUMBER	DESCRIPTION	NO
1	91026 91027	9.5L x 6 Ply c/w 8" Wheel Rim 11L x 6 Ply c/w 8" Wheel Rim (Optional) (66 Ft. Standard)	* *
2	N5C10P	Nut 5/8"	32
3	W10P	Lockwasher 5/8"	32
4	B5C1028P	Bolt 5/8" x 1 3/4"	24
5	10017	Oscillating Axle c/w 611 Hub	2
6	LN5C08P	Locknut 1/2"	22
7	10016	Oscillating Axle Pocket	4
8	91700	Grease Nipple 1/8" NPT Straight	4
9	UB0850146	U-Bolt 1/2" x 3 1/8" x 9 1/8"	8
10	10005	Right A-Frame Hitch Tube	1
11	10006	A-Frame Cross Member	1
12	10004	Left A-Frame Hitch Tube	1
13	10002	Left A-Frame Hitch	1
14	B5C0824P	Bolt 1/2" x 1 1/2"	6
15	92003	Serial Number Plate	1
16	10019	A-Frame Cross Angle	1
17	10068	Cross Plate (Sprayer Attachment Only)	1
18	10069	Cable Bracket Plates (Sprayer Attachment Only)	4
19	N5C16P	Nut 1"	2
20	W16P	Lockwasher 1"	2
21	10022	Bolt on Draw Hitch	1
22	B5C16120P	Bolt 1" x 7 1/2"	2
23	10070	Bolt on Cable Bracket (Sprayer Attachment Only)	2
24	B5C1080P	Bolt 5/8" x 5" (Sprayer Attachment Only)	8
25	HP52	Hair Pin Clip 3/4" (Sprayer Attachment Only)	2
26	20007	Cable Bracket Pin (Sprayer Attachment Only)	2
27	10003	Right A-Frame Hitch	1
* As Required			

- A. Place left and right auto fold brackets on auto fold. Bolt brackets to plates on A-Frame.
B. Bolt auto fold plate to auto fold cross plate then in turn bolt cross plate to plates also on A-Frame.
C. Position auto fold cylinder bracket on left and right A-Frame where it wouldn't slide any further and secure with bolts.
D. Place cylinder in place, ports upward, clevis end to auto fold plate then secure with pins.
E. Fasten auto fold spring plate to auto folds, then fasten springs to plates and to auto fold cross plate.



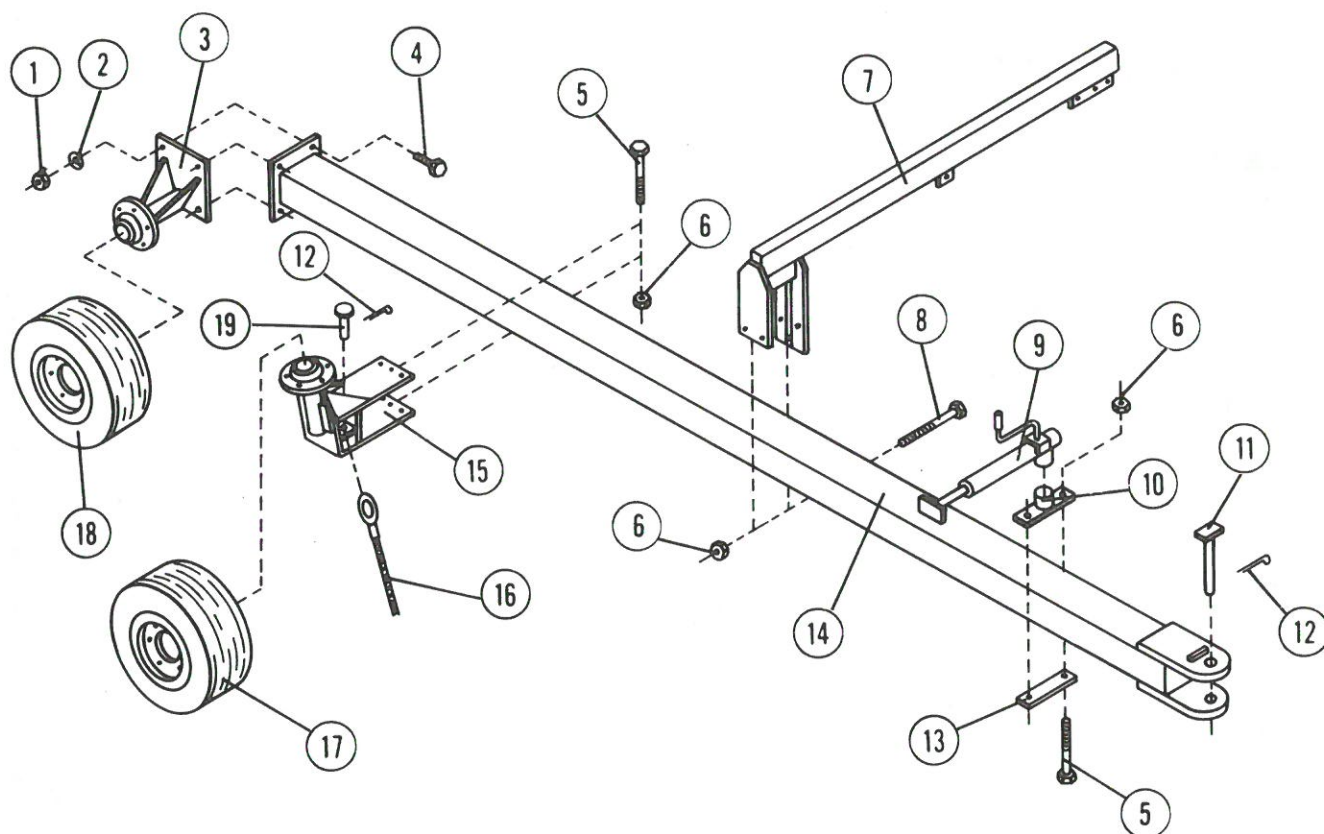
[illegible]

- A. Position centre tube to A-Frame securing with pins.
- B. Tighten all bolts on A-Frame.
- C. Position cylinder swivel brackets to centre tubes, install pins.
- D. Position cylinders, ports upwards, clevis end to swivel brackets, install pins.
- E. Place left and right knuckles, gusset upward and install pins to centre tube.
- F. Fasten transport lock only to hitch tubes, assembly centre tube in working position.



[illegible]

- A. Pin wing tubes to centre tube, pin stops facing upwards.
- B. Bolt end wheel to wing tubes, gusset upwards, install wheels.
- C. Bolt transport wheel next to stops on wing tubes, pin cables to auto fold then to transport wheels.
- D. Bolt sidewind jack to wing tubes, 26 inches from centre of pin hole on wing tubes to centre of jacks.
- E. Install lift arms by following purchased harrow packer size measurements on following pages.



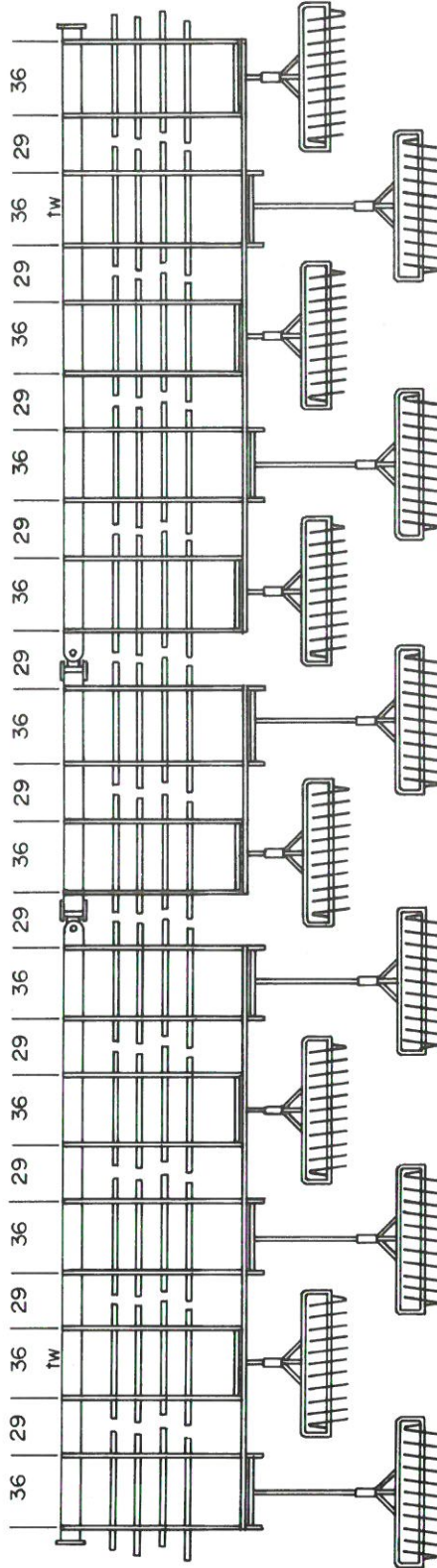
ITEM	PART NUMBER	DESCRIPTION	NO
1	N5C10P	Nut 5/8"	8
2	W10P	Lockwasher 5/8"	8
3	10028	End Wheel c/w 611 Hub	2
4	B5C1028P	Bolt 5/8" x 1 3/4"	8
5	B5C08128P	Bolt 1/2" x 8"	*
6	LN5C08P	Locknut 1/2"	*
7	10035	Short Lift Arm	*
	10036	Long Lift Arm	*
8	B5C08160P	Bolt 1/2" x 10"	*
9	92002	Sidewind Jack	2
10	10027	Jack Plate c/w Stub	2
11	10033	Pin Knuckle 1 1/2" x 8 3/4"	2
12	CP0440	Cotter Pin 1/4" x 2 1/2"	4
13	10026	Jack Plate	2
14	10007	10'2" Wing Tube for 33'	2
	10008	15'8" Wing Tube for 44'	2
	10009	21'2" Wing Tube for 55'	2
	10010	26'8" Wing Tube for 66'	2
15	10029	Left Transport Wheel c/w 618 Hub	1
	10030	Right Transport Wheel c/w 618 Hub	1
16	91800	20'1" Cable for 33'	2
	91801	23'8" Cable for 44' & 55'	2
	91802	28'0" Cable for 66'	2
17	91026	9.5L x 6 Ply c/w 8" Wheel Rim	*
	91027	11L x 6 Ply c/w 8" Wheel Rim (Optional)	*
	91028	11L x 8 Ply c/w 8" Wheel Rim (66 Ft. Only)	*
18	91026	9.5L x 6 Ply c/w 8" Wheel Rim	*
19	91027	11L x 6 Ply c/w 8" Wheel Rim (Optional) (66 Ft. Standard)	*
	10061	Pin Transport 7/8" x 3 3/4"	2
* As Required			

LIFT ARM AND PACKER SPACING

- A. Assemble lift arms and packers in working position.
 B. Measure and mark lift arms before securing, starting from centre of centre tube measure $14\frac{1}{2}$ inches on either side of centre for placement of first arm. Then follow measurements on purchased size below, alternating between pairs of short and long lift arms.

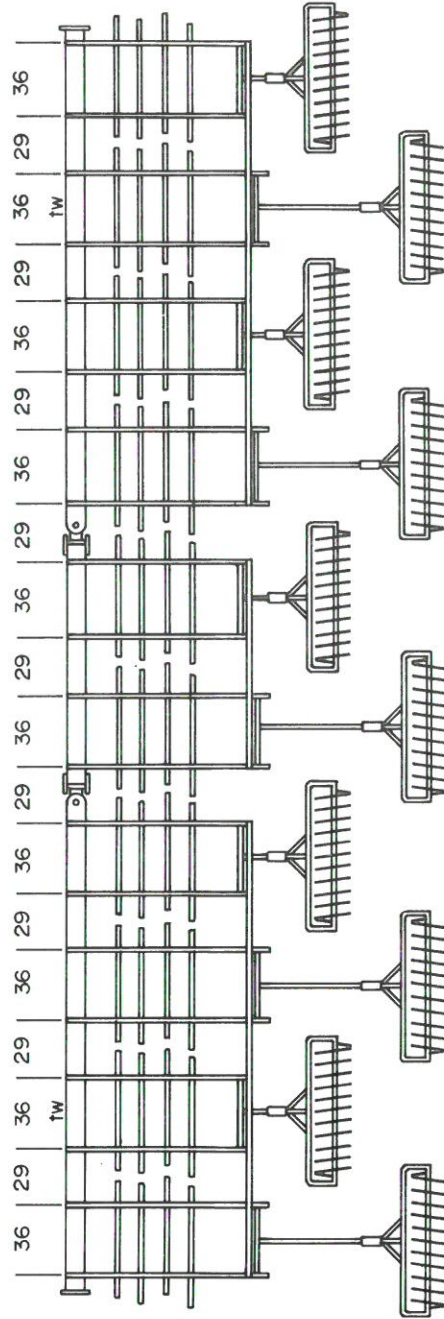
26' 8" Wing Tubes
 8' 10" Centre Angles
 25' 5" Wing Angles

66 FT.



21' 2" Wing Tubes
 8' 10" Centre Angles
 20' Wing Angles

55 FT.

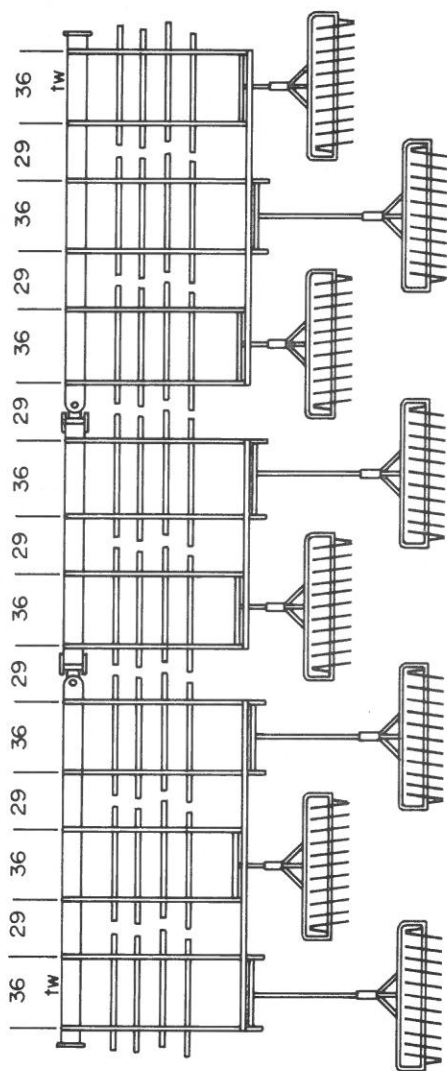


LIFT ARM AND PACKER SPACING

LAURIER

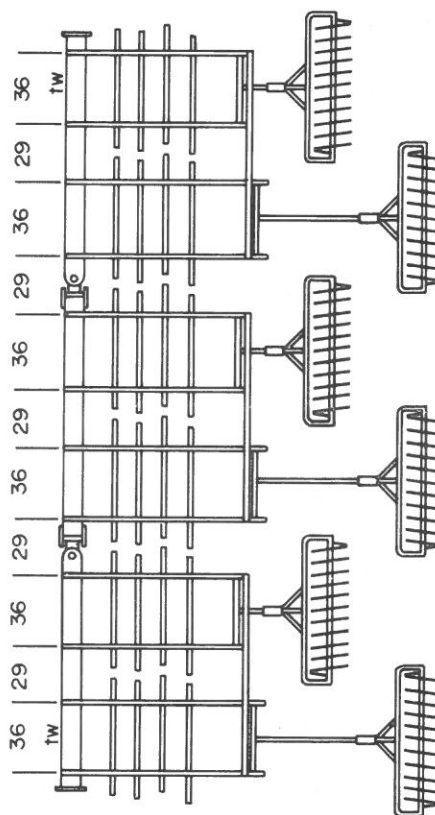
15' 8" Wing Tubes
8' 10" Centre Angle
14' 3" Wing Angles

44 FT.



10' 2" Wing Tubes
8' 10" Centre Angle
8' 10" Wing Angles

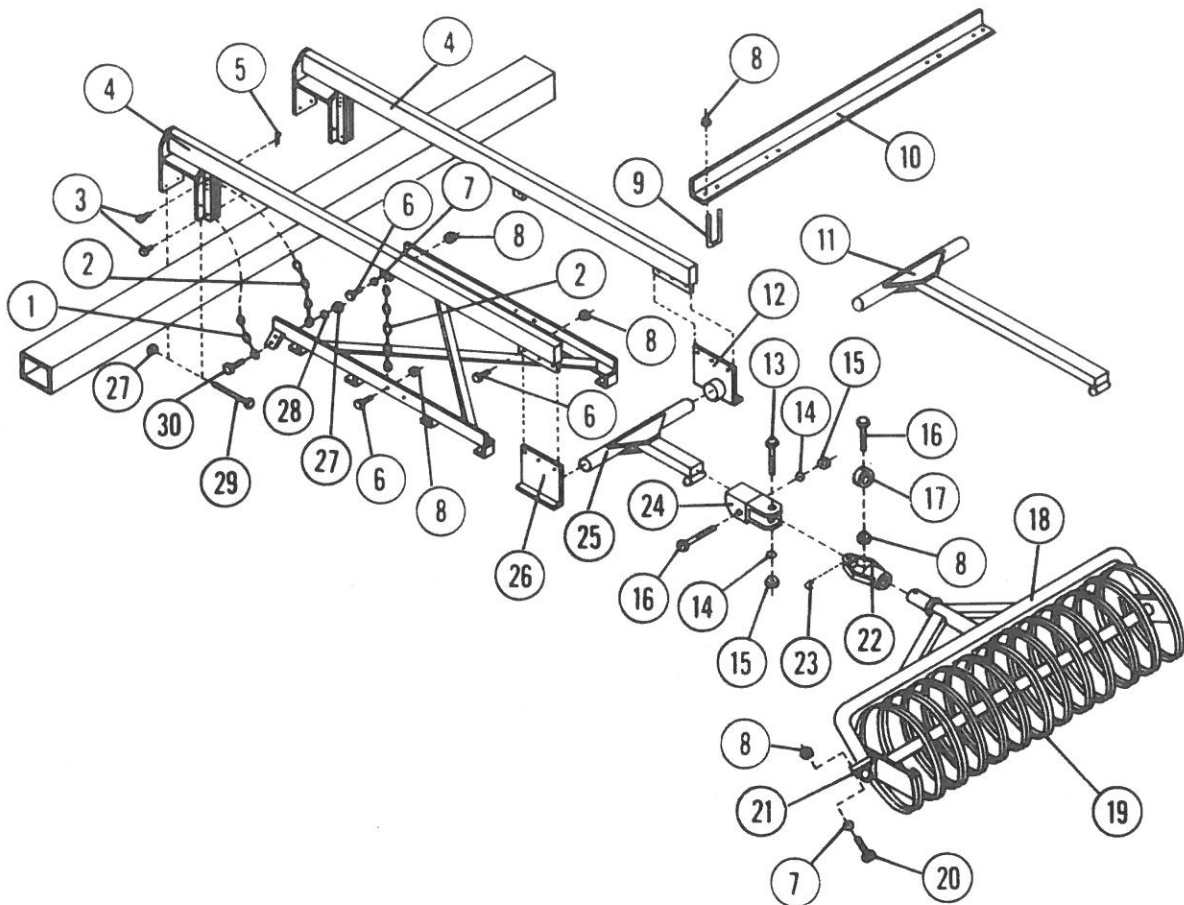
33 FT.



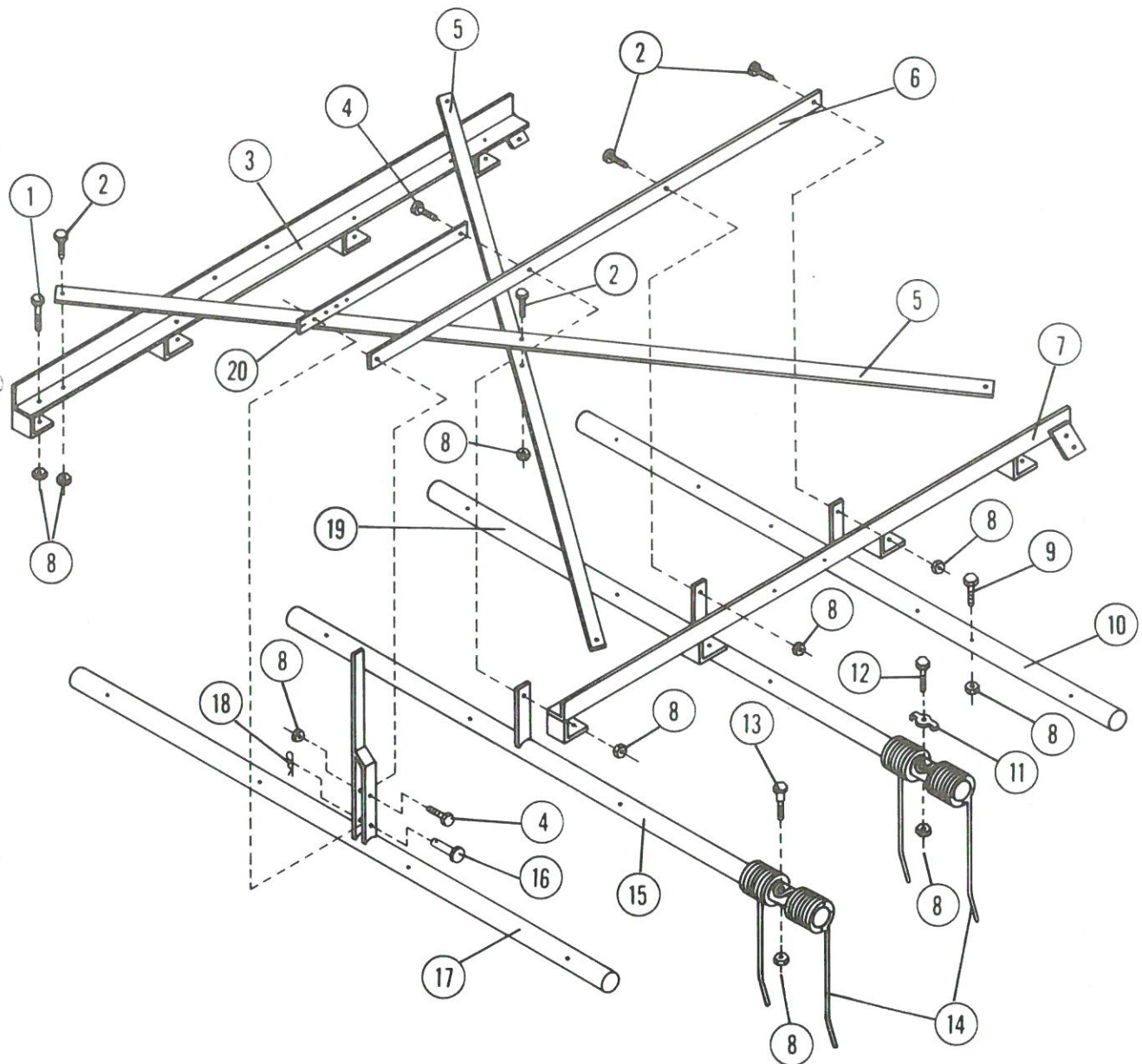
- C. Follow drawing lift arm, section, packer assembly for proper parts placements.
- D. Always start with right hand packer on short lift arm on right side of machine.

LIFT ARM, SECTION, PACKER ASSEMBLY

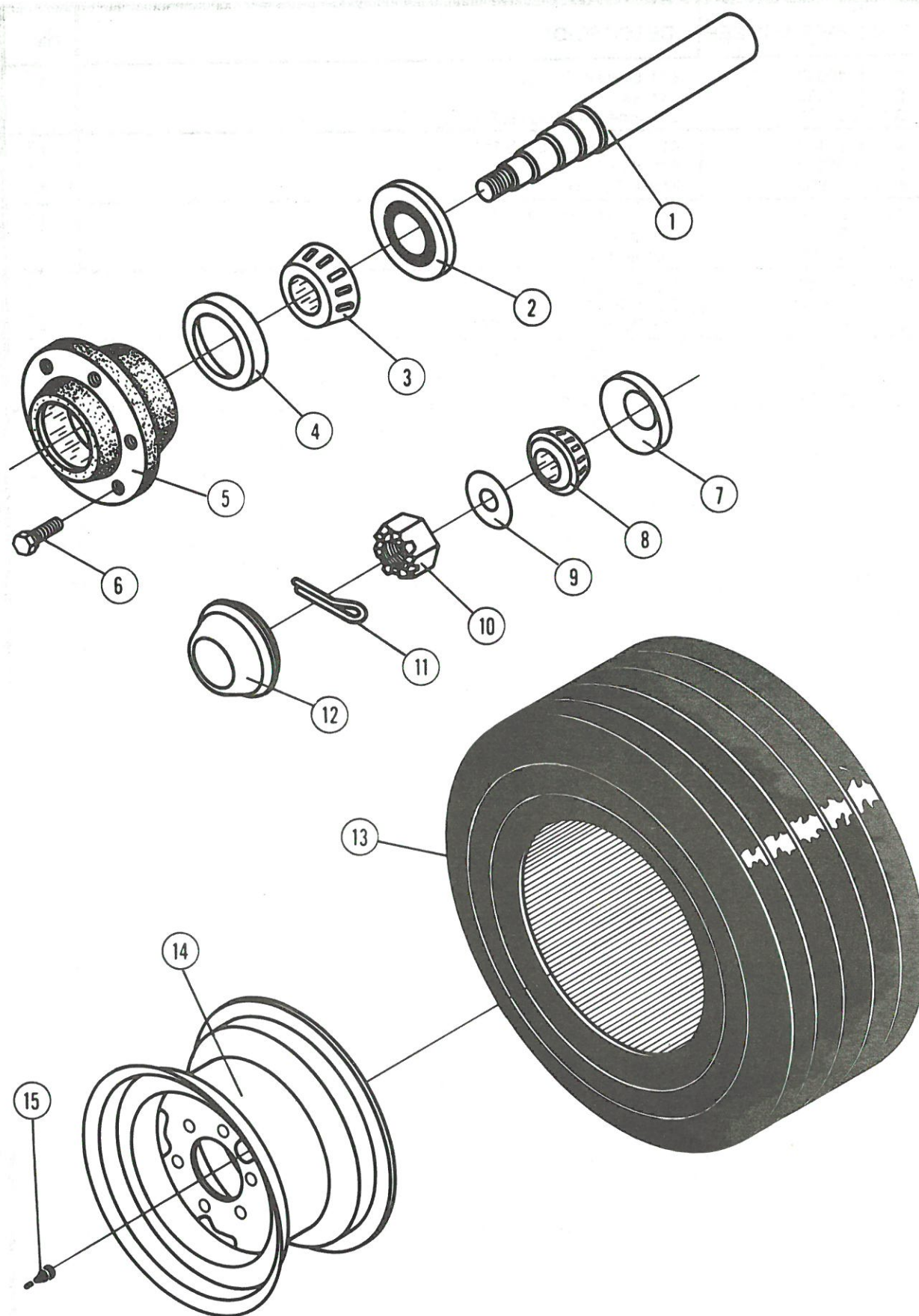
- A. Install required angle braces, then tighten lift arms.
- B. Position sections under lift arms, bolt 6 and 7 link chains to front of section, 7 link outside of angle and 6 link inside of angle. Secure chains to lift arms by 6 link to bottom and 7 link chain to top of lift arms. Secure with pins. Bolt other 7 link chain to front holes on sections and then to lug on lift arms.
- C. Install left and right packer hitch brackets on long or short packer hitch. Bolt brackets to plates on lift arms.
- D. Install packer knuckle to long or short packer hitch.
- E. Install packer overbrace to coils then install packer swivel hitch to packer overbrace and secure with collar and bolt.
- F. Bolt packer swivel hitch to packer knuckle.



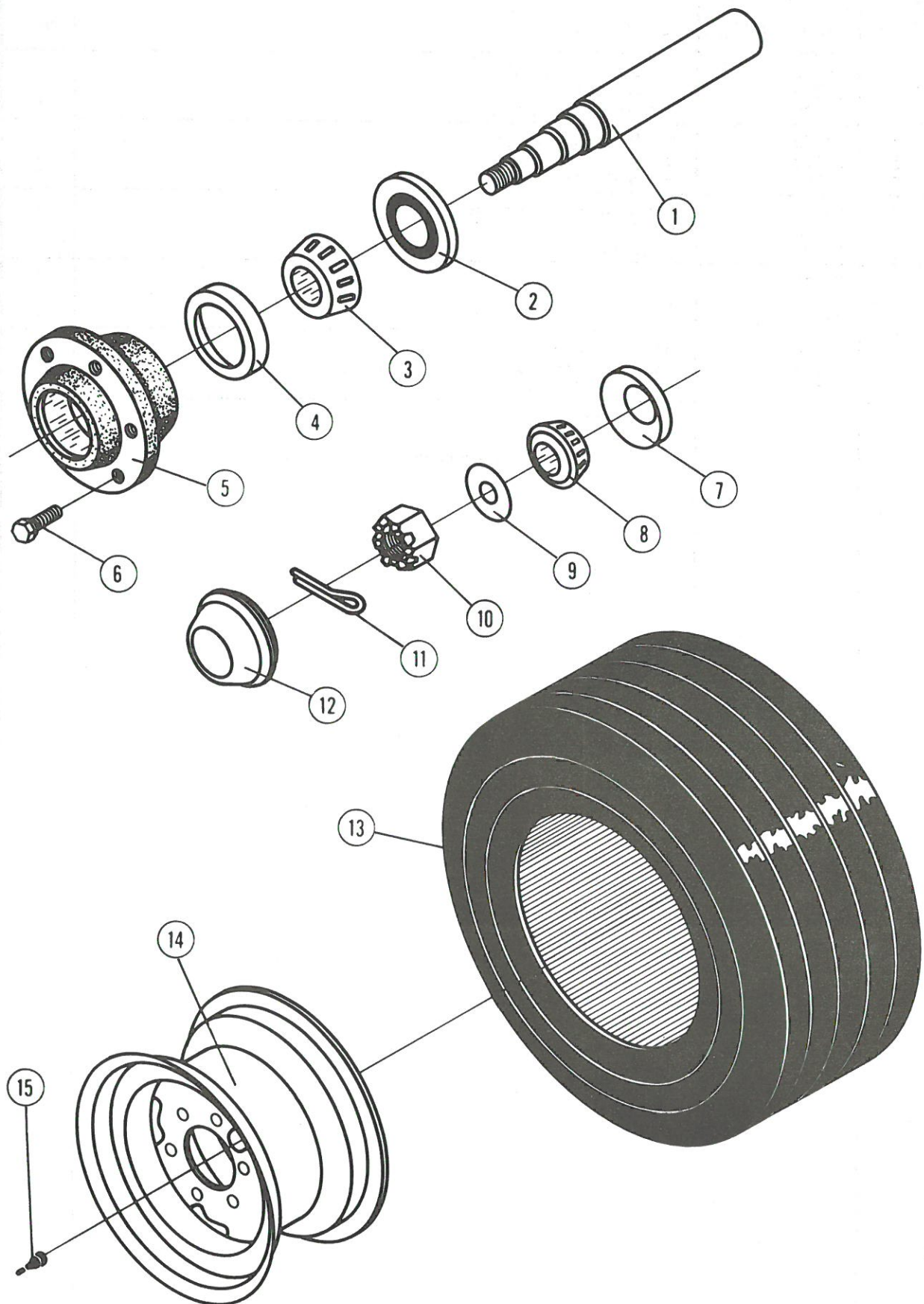
ITEM	PART NUMBER	DESCRIPTION	QTY
1	91501	6 Link Chain 5/16"	*
2	91500	7 Link Chain 5/16"	*
3	91601	Pin Chain 1/2" x 1 5/8"	*
4	10035	Short Lift Arm	*
	10036	Long Lift Arm	*
5	CP0216	Cotter Pin 1/8" x 1"	*
6	B5C0720P	Bolt 7/16" x 1 1/4"	*
7	FW07P	Flatwasher 7/16"	*
8	LN5C07P	Locknut 7/16"	*
9	UB073476	U-Bolt 7/16" x 2 1/8" x 4 3/4"	*
10	10063	8'10" Lift Arm Angle for Centres & 33'	*
	10064	14'3" Lift Arm Angle for 44'	2
	10065	20'0" Lift Arm Angle for 55'	2
	10066	25'5" Lift Arm Angle for 66'	2
11	10038	Long Packer Hitch	*
12	10045	Right Packer Hitch Bracket	*
13	B5C1272P	Bolt 3/4" x 4 1/2"	*
14	W12P	Lockwasher 3/4"	*
15	N5C12P	Nut 3/4"	*
16	B5C0756P	Bolt 7/16" x 3 1/2"	*
17	10044	Packer Collar	*
18	10067	Packer Overbrace	*
19	10039	Left Hand Packer Coil 1 1/2" x 5 1/2 Ft.	*
	10040	Left Hand Packer Coil 1 3/4" x 5 1/2 Ft.	*
	10041	Right Hand Packer Coil 1 1/2" x 5 1/2 Ft.	*
	10042	Right Hand Packer Coil 1 3/4" x 5 1/2 Ft.	*
20	B5C0728P	Bolt 7/16" x 1 3/4"	*
21	92000	Pillow Block	*
22	10043	Packer Swivel Hitch	*
23	91701	Grease Nipple 1/8" NPT x 90°	*
24	10062	Packer Knuckle	*
25	10046	Short Packer Hitch	*
26	10047	Left Packer Hitch Bracket	*
27	LN5C08P	Locknut 1/2"	*
28	FW08P	Flatwasher 1/2"	*
29	B5C08160P	Bolt 1/2" x 10"	*
30	CB5C0832P	Carriage Bolt 1/2" x 2"	*
* As Required			



ITEM	PART NUMBER	DESCRIPTION	NO
1	B5C0752P	Bolt 7/16" x 3¼"	8
2	B5C0720P	Bolt 7/16" x 1¼"	7
3	10048	Left Angle	1
4	B5C0728P	Bolt 7/16" x 1¾"	2
5	10049	Cross Brace	2
6	10051	Centre Tie	1
7	10052	Right Angle	1
8	LN5C07P	Locknut 7/16"	35
9	B5C0732P	Bolt 7/16" x 2"	2
10	10053	Front Pipe	1
11	92001	Fabricated Washer (Optional)	*
12	B5C0744P	Bolt 7/16" x 2¾" (Optional)	*
13	92008	Special Head Bolt Tines	16
14	91401	Tine ¾" x 12"	16
15	10055	3rd Pipe	1
16	91600	Pin Section 7/16" x 1½"	1
17	10056	4th Pipe	1
18	HP24	Hair Pin Clip 1½"	1
19	10054	2nd Pipe	1
20	10050	Adjustment Bar	1
	10037	5 Ft. 6" Section (Complete)	*
		* As Required	

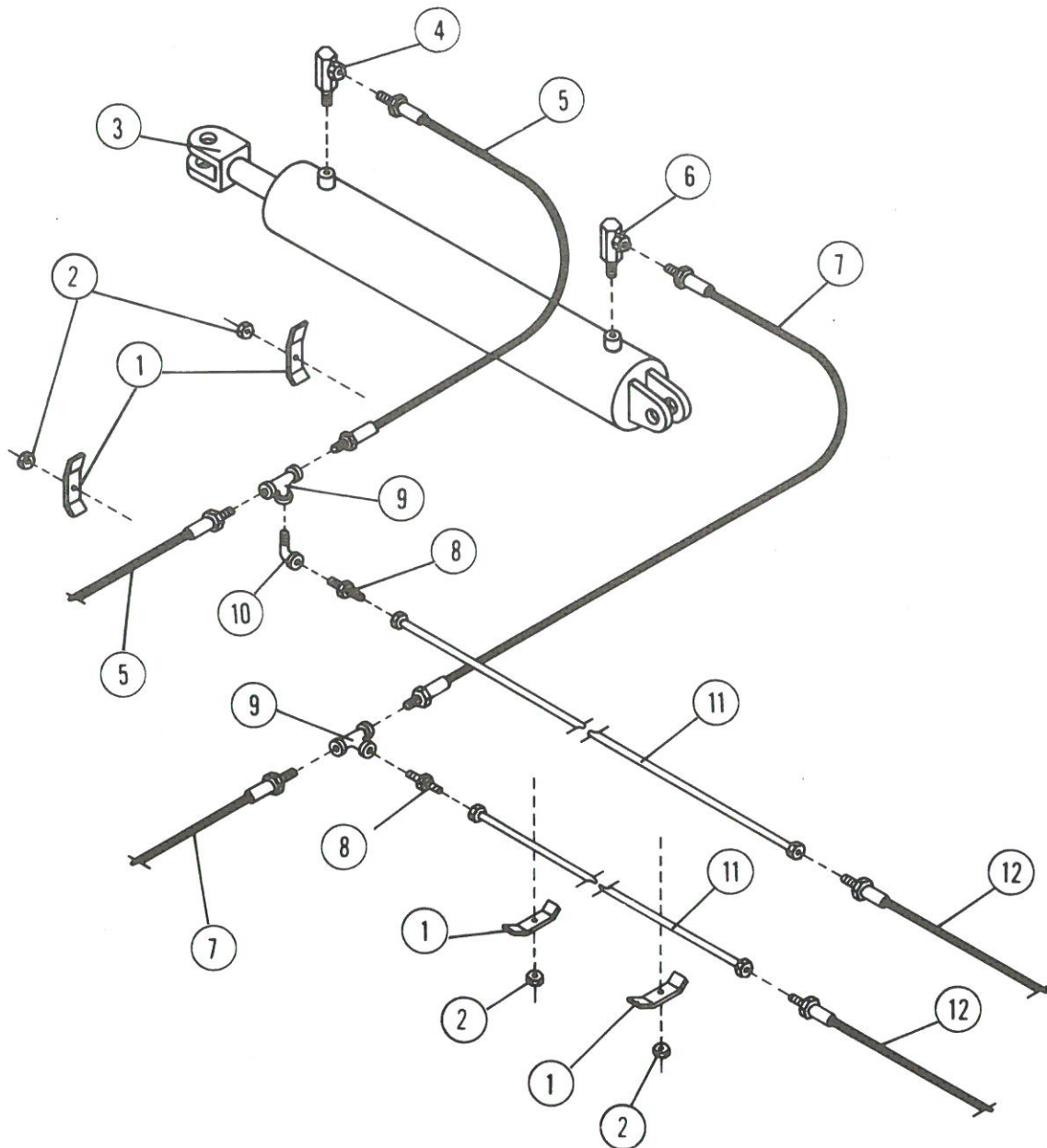


ITEM	PART NUMBER	DESCRIPTION	QTY
1	10057	611 Spindle 2" x 10"	1
2	91090	611 Seal	1
3	91170	611 Inner Cone LM29749	1
4	91150	611 Inner Race LM29710	1
5	91070	611 Hub	1
6	91060	Wheel Bolt 1/2"	6
7	91130	611 Outer Race LM67010	1
8	91110	611 Outer Cone LM 67048	1
9	91190	Washer Hub	1
10	91210	Castelated Nut	1
11	CP0324	Cotter Pin 3/16" x 1 1/2"	1
12	91230	611 Dustcap	1
13	91000	9.5L x 6 Ply Tire	1
	91001	11L x 6 Ply Tire (Optional) (66 Ft. Standard)	*
14	91050	15" x 8" x 6" Wheel Rim	1
15	92005	Valve Stem	1
		* As Required	

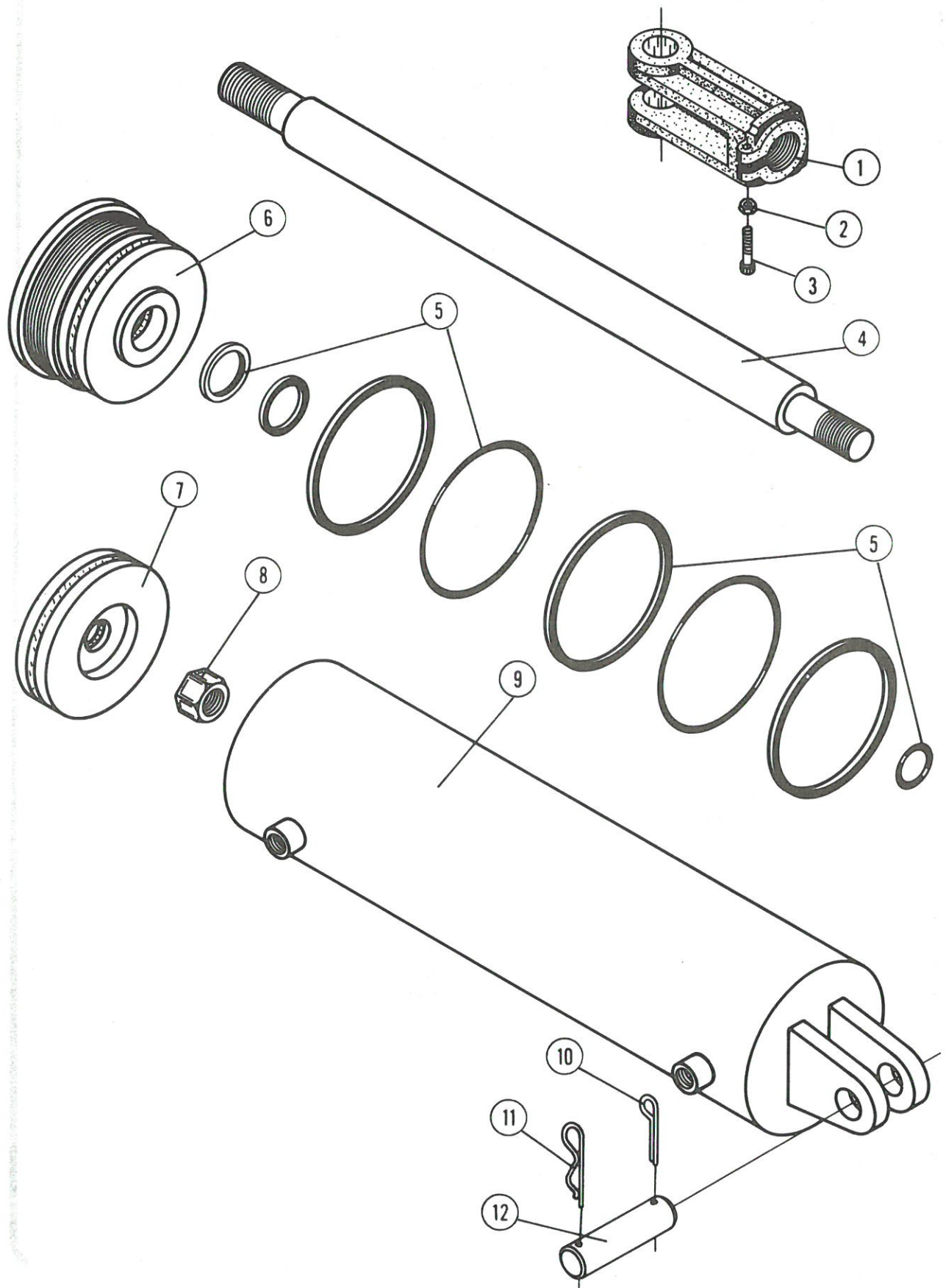


ITEM	PART NUMBER	DESCRIPTION	QTY
1	10058	618 Spindle 2" x 13"	1
2	91091	618 Seal	1
3	91171	618 Inner Cone LM25580	1
4	91151	618 Inner Race LM 25520	1
5	91071	618 Hub	1
6	91061	Wheel Bolt 9/16"	6
7	91131	618 Outer Race LM 48510	1
8	91111	618 Outer Cone LM 48548	1
9	91190	Washer Hub	1
10	91210	Castelated Nut	1
11	CP0324	Cotter Pin 3/16" x 1 1/2"	1
12	91231	618 Dustcap	1
13	91000	9.5L x 6 Ply Tire	1
	91001	11L x 6 Ply Tire (Optional)	*
	91002	11L x 8 Ply Tire (66 Ft. Only)	*
14	91050	15" x 8" x 6" Wheel Rim	1
15	92005	Valve Stem	1
* As Required			

- A. Install cylinders, port holes upwards, clevis end to swivel brackets.
B. Install 90° swivel elbows on cylinders, restricted elbow #4 on top port cylinder hole.
C. Install street elbows, tees, unions to 1/2" hydraulic lines, then install hydraulic lines to underside of A-Frame securing with clamps.
D. Install hoses as shown below checking parts list for right lengths.

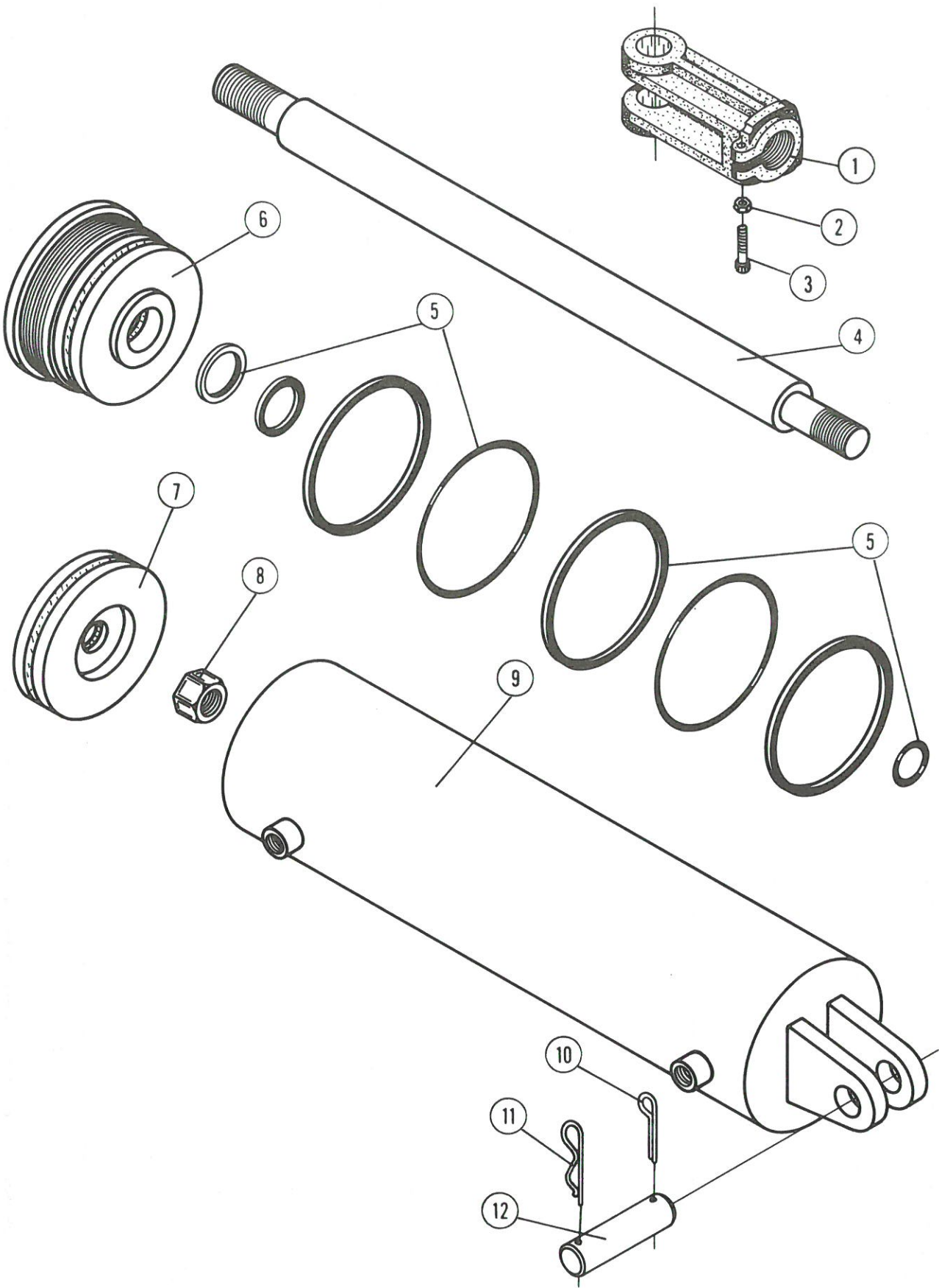


ITEM	PART NUMBER	DESCRIPTION	QTY
1	10034	Hose Clamp	4
2	LN5C08P	Locknut 1/2"	4
3	90100	Cylinder 3 1/2" x 30"	2
	90101	Cylinder 4" x 30" (Optional)	*
4	90500	90° swivel elbow (Restricted)	2
5	90203	1/2" Hose x 88"	2
6	90501	90° swivel elbow	2
7	90204	1/2" Hose x 51"	2
8	90550	Flare Adaptor	2
9	90600	Tee Street F-F-F	2
10	90502	90° Street Elbow	1
11	90400	1/2" Hydraulic Line x 132"	2
12	90202	1/2" Hose x 84"	2
* As Required			



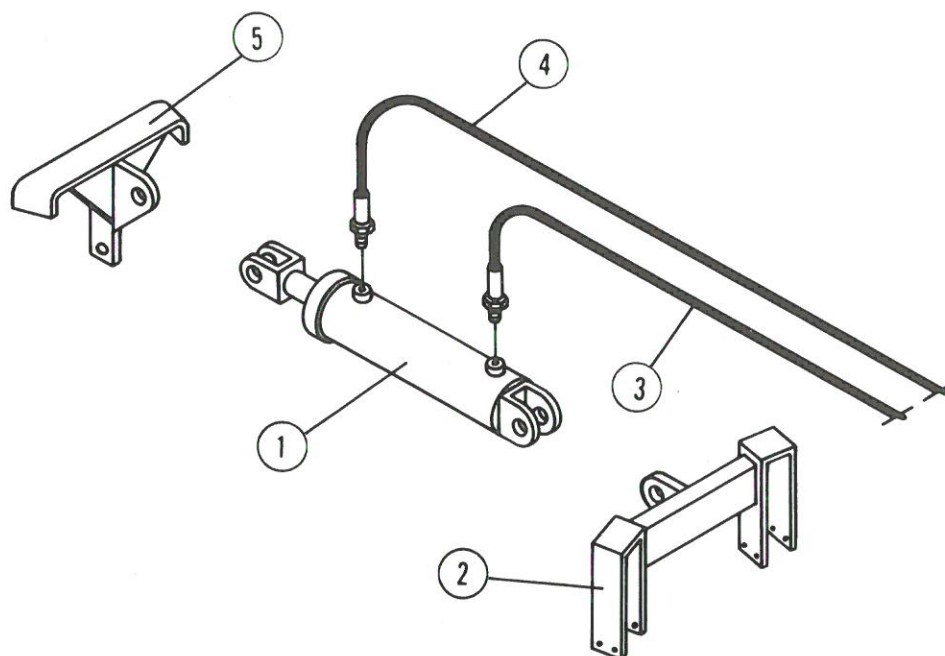
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4" x 30" MONARCH CYLINDER (OPTIONAL)

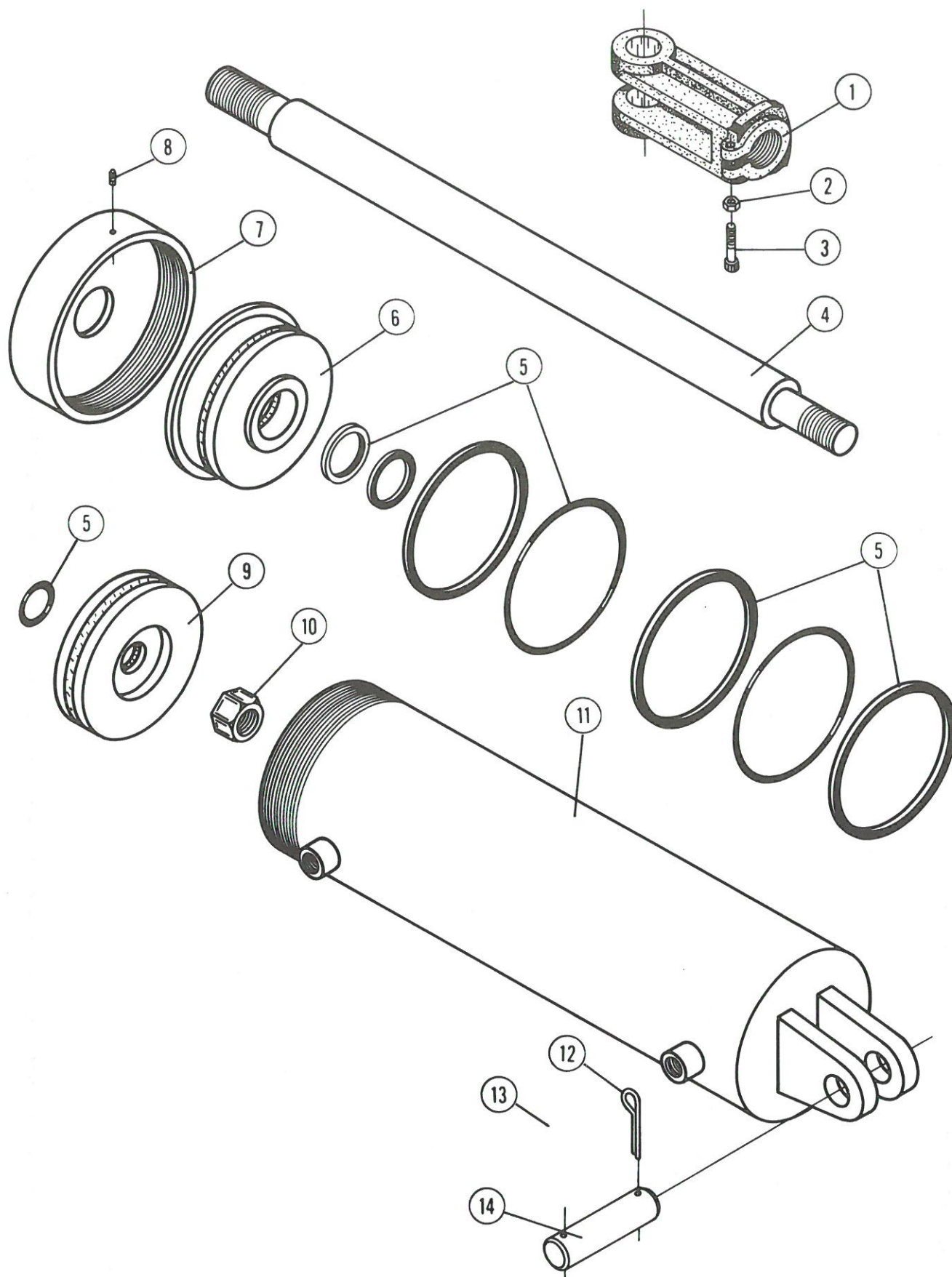


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- A. Install cylinder, port holes upwards, clevis end to auto fold plate.
- B. Install other end to auto fold cylinder bracket.
- C. Install hoses to cylinder, longest hose to the top port.



ITEM	PART NUMBER	DESCRIPTION	NO
1	10023	Auto Fold Cylinder Bracket	1
2	90102	Cylinder 2" x 4"	1
3	10024	Auto Fold Lock Plate	1
4	90201	3/8" Hose 3/8" M - 1/2" M x 90"	1
5	90200	3/8" Hose 3/8" M - 1/2" M x 84"	1



ITEM	PART NUMBER	DESCRIPTION	QTY
1	90621	Cylinder Clevis	1
2	N5C06P	Nut $\frac{3}{8}$ "	1
3	92016	Allan Head Bolt $\frac{3}{8}$ " x 2"	1
4	90643	Cylinder Shaft 2" x 4" Cylinder	1
5	90683	Seal Kit 2" Cylinder (Ram)	1
6	90820	Gland 2" cylinder (Ram)	1
7	90664	2" Cylinder Screw on End Cap	1
8	92017	Set Screw	1
9	90703	Piston 2" Cylinder (Ram)	1
10	90721	Piston Nut 2" Cylinder	1
11	90744	2" x 4" Cylinder Screw on Tube	1
12	CP0224	Cotter Pin $\frac{1}{8}$ " x $1\frac{1}{2}$ "	4
13	91602	Pin Cylinder $\frac{5}{8}$ " x 3"	2

- STEP ONE:** Secure harrow packer bar assembly to a tractor with suitable horse power and a solid double clevis type hitch with a solid draw pin. Connect the hydraulic hoses, fitted with appropriate fittings to the tractor outlets. Operate the hydraulics.
NOTE: Tractor Reservoir may require additional oil.
NOTE: Before moving harrow packer bar be sure stabilizer jacks are raised and parallel to wing tubes.
- STEP TWO:** With harrow packer bar in working position how to place harrow packer bar in transport position. Activate cylinders to lift harrows and packers to upright position. Activate auto fold cylinder to release auto fold. Bolt transport locking plates in place by using $\frac{3}{4}$ " x 2" GR8 bolts. Drive ahead slowly until wings are in transport position.
- STEP THREE:** With harrow packer bar in transport position how to place harrow packer bar in working position. Unbolt transport locking plates. Back up harrow packer bar to open up wings, then keep backing up until wing tubes and centre tube form a straight line. Activate auto fold cylinder to lock auto fold in place. Drive ahead until cables are tight. Lower the harrows and packers slowly until the first set of packers touch the ground. Drive ahead slowly and proceed to lower the remaining harrows and packers.
- STEP FOUR:** To unhook harrow packer bar caution must be used to prevent personal injury and damage to the harrow packer bar unit. **NOTE:** Stabilizer jacks must first be lowered before uncoupling the harrow packer bar hitch from the tractor. Lower and adjust stabilizer jacks to right height to remove weight from the A-Frame hitch. Uncouple hydraulic hoses from tractor, remove draw pin and slowly drive away.
- STEP FIVE:** Grease left and right knuckles, oscillating axle pockets and packer swivel hitches daily. Check to make sure that the $1\frac{1}{2}$ " knuckle pins and cotter pins are secure. Repack wheel hubs annually. Make sure wheel bolts and all bolts on harrow packer bar remain tight.

PARTS INDEX

LAURIER

PART #	PAGE	ITEM	DESCRIPTION	PART #	PAGE	ITEM	DESCRIPTION
10001	5	1	11 Ft. Centre Tube	10054	13	19	2nd Pipe
10002	1	13	Left A-Frame Hitch	10055	13	15	3rd Pipe
10003	1	27	Right A-Frame Hitch	10056	13	17	4th Pipe
10004	1	12	Left A-Frame Hitch Tube	10057	15	1	611 Spindle
10005	1	10	Right A-Frame Hitch Tube	10058	17	1	618 Spindle
10006	1	11	A-Frame Cross Member	10059	3	21	Auto Fold Spring Plate
10007	7	14	10'2" Wing Tube for 33'	10060	3	7	Pin Auto Fold
10008	7	14	15'8" Wing Tube for 44'	10061	7	19	Pin Transport
10009	7	14	21'2" Wing Tube for 55'	10062	11	24	Packer Knuckle
10010	7	14	26'8" Wing Tube for 66'	10063	11	10	8'10" Lift Arm Angles
10011	5	15	Left Knuckle	10064	11	10	14'3" Lift Arm Angles
10012	5	15	Right Knuckle	10065	11	10	20'0" Lift Arm Angles
10013	5	4	Cylinder Swivel	10066	11	10	25'5" Lift Arm Angles
10014	5	2	Pin Cylinder Swivel	10067	11	18	Packer Overbrace
10015	5	10	Pin Hitch	10068	1	17	Cross Plate
10016	1	7	Oscillating Axle Pocket	10069	1	18	Cable Bracket Plates
10017	1	5	Oscillating Axle	10070	1	23	Bolt on Cable Brackets
10018	3	1	Right Auto Fold Bracket	20007	1	26	Cable Bracket Pin
10019	1	16	A-Frame Cross Angle	90100	5	5	Cylinder 3 1/2" x 30"
10020	3	6	Left Auto Fold Bracket	90100	19	3	Cylinder 3 1/2" x 30"
10021	3	19	Auto Fold Cross Plate	90101	5	5	Cylinder 4" x 30"
10022	1	21	Bolt on Draw Hitch	90101	19	3	Cylinder 4" x 30"
10023	3	13	Auto Fold Cylinder Bracket	90102	3	16	Cylinder 2" x 4"
10023	25	1	Auto Fold Cylinder Bracket	90102	25	2	Cylinder 2" x 4"
10024	3	17	Auto Fold Lock Plate	90200	25	5	3/8" Hose 3/8" m-1/2" m x 84"
10024	25	3	Auto Fold Lock Plate	90201	25	4	3/8" Hose 3/8" m-1/2" m x 90"
10025	3	2	Auto Fold	90202	19	12	1/2" Hose x 84"
10026	7	13	Jack Plate	90203	19	5	1/2" Hose x 88"
10027	7	10	Jack Plate c/w Stub	90204	19	7	1/2" Hose x 51"
10028	7	3	End Wheel	90400	19	11	Hydraulic Line 1/2" x 132"
10029	7	15	Left Transport Wheel	90500	19	4	90° Swivel Elbow Restricted
10030	7	15	Right Transport Wheel	90501	19	6	90° Swivel Elbow
10031	5	11	Transport Lock Plate	90502	19	10	90° Street Elbow
10032	5	14	Pin Knuckle 1 1/2" x 10 1/2"	90550	19	8	Flare Adaptor
10033	7	11	Pin Knuckle 1 1/2" x 8 3/4"	90600	19	9	Tee Street F-F-F
10034	19	1	Hose Clamp	90620	21	1	3 1/2" Cylinder Clevis
10035	7	7	Short Lift Arm	90620	23	1	4" Cylinder Clevis
10035	11	4	Short Lift Arm	90621	27	1	2" Cylinder Clevis
10036	7	7	Long Lift Arm	90642	21	4	3 1/2" x 30" Cylinder Shaft
10036	11	4	Long Lift Arm	90642	23	4	4" x 30" Cylinder Shaft
10037	13		5 ft. 6" Section Complete	90643	27	4	2" x 4" Cylinder Shaft
10038	11	11	Long Packer Hitch	90662	21	6	3 1/2" Cylinder Screw on End Cap
10039	11	19	Left Hand Coil 1 1/2"	90663	21	6	4" Cylinder Screw on End Cap
10040	11	19	Left Hand Coil 1 3/4"	90664	27	7	2" Cylinder Screw on End Cap
10041	11	19	Right Hand Coil 1 1/2"	90680	21	5	3 1/2" Cylinder Seal Kit
10042	11	19	Right Hand Coil 1 3/4"	90682	23	5	4" Cylinder Seal Kit
10043	11	22	Packer Swivel Hitch	90683	27	5	2" Cylinder Seal Kit (Ram)
10044	11	17	Packer Collar	90700	21	7	3 1/2" Cylinder Piston
10045	11	12	Right Packer Hitch Bracket	90702	23	7	4" Cylinder Piston
10046	11	25	Short Packer Hitch	90703	27	9	2" Cylinder Piston (Ram)
10047	11	26	Left Packer Hitch Bracket	90720	21	8	3 1/2" Cylinder Piston Nut
10048	13	3	Left Angle	90720	23	8	4" Cylinder Piston Nut
10049	13	5	Cross Brace	90721	27	10	2" Cylinder Piston Nut
10050	13	20	Adjustment Bar	90742	21	9	3 1/2"x30" Cylinder Screw on Tube
10051	13	6	Centre Tie	90743	23	9	4"x30" Cylinder Screw on Tube
10052	13	7	Right Angle	90744	27	11	2"x4" Cylinder Screw on Tube
10053	13	10	Front Pipe	90820	27	6	2" Cylinder Gland (Ram)

PART #	PAGE	ITEM	DESCRIPTION
91000	15	13	9.5L x 6 Ply Tire
91000	17	13	9.5L x 6 Ply Tire
91001	15	13	11L x 6 Ply Tire
91001	17	13	11L x 6 Ply Tire
91002	17	13	11L x 8 Ply Tire
91026	1	1	9.5L x 6 Ply c/w 8" Wheel Rim
91026	7	17	9.5L x 6 Ply c/w 8" Wheel Rim
91026	7	18	9.5L x 6 Ply c/w 8" Wheel Rim
91027	1	1	11L x 6 Ply c/w 8" Wheel Rim
91027	7	17	11L x 6 Ply c/w 8" Wheel Rim
91027	7	18	11L x 6 Ply c/w 8" Wheel Rim
91028	7	18	11L x 8 Ply c/w 8" Wheel Rim
91050	15	14	15" x 8" x 6" Wheel Rim
91050	17	14	15" x 8" x 6" Wheel Rim
91060	15	6	Wheel Bolt 1/2"
91061	17	6	Wheel Bolt 9/16"
91070	15	5	611 Hub
91071	17	5	618 Hub
91090	15	2	611 Seal
91091	17	2	618 Seal
91110	15	8	611 Outer Cone
91111	17	8	618 Outer Cone
91130	15	7	611 Outer Race
91131	17	7	618 Outer Race
91150	15	4	611 Inner Race
91151	17	4	618 Inner Race
91170	15	3	611 Inner Cone
91171	17	3	618 Inner Cone
91190	15	9	Washer Hub
91190	17	9	Washer Hub
91210	15	10	Castellated Nut
91210	17	10	Castellated Nut
91230	15	12	611 Dustcap
91231	17	12	618 Dustcap
91400	3	20	Auto Fold Springs
91401	13	14	Tine 3/8" x 12"
91500	11	2	7 Link Chain 5/16"
91501	11	1	6 Link Chain 5/16"
91600	13	16	Pin Section 7/16" x 1 1/2"
91601	11	3	Pin Chain 1/2" x 1 5/8"
91602	3	12	Pin Cylinder 5/8" x 3"
91602	27	13	Pin Cylinder 5/8" x 3"
91603	5	9	Pin Cylinder 1" x 3 3/4"
91603	21	12	Pin Cylinder 1" x 3 3/4"
91603	23	12	Pin Cylinder 1" x 3 3/4"
91700	1	8	Grease Nipple 1/8" NPT Straight
91700	5	16	Grease Nipple 1/8" NPT Straight
91701	11	23	Grease Nipple 1/8" NPT x 90°
91800	7	16	20'1" Cable for 33'
91801	7	16	23'8" Cable for 44' & 55'
91802	7	16	28'0" Cable for 66'
92000	11	21	Pillow Block
92001	13	11	Fabricated Washer
92002	7	9	Sidewind Jack
92003	1	15	Serial Number Plate
92005	15	15	Valve Stem
92005	17	15	Valve Stem

PART #	PAGE	ITEM	DESCRIPTION
92008	13	13	Special Head Bolt Tines
92016	21	3	Allan Head Bolt 3/8" x 2"
92016	23	3	Allan Head Bolt 3/8" x 2"
92016	27	3	Allan Head Bolt 3/8" x 2"
92017	27	8	Set Screw
B5C0664P	3	15	Bolt 3/8" x 4"
B5C0720P	11	6	Bolt 7/16" x 1 1/4"
B5C0720P	13	2	Bolt 7/16" x 1 1/4"
B5C0728P	11	20	Bolt 7/16" x 1 3/4"
B5C0728P	13	4	Bolt 7/16" x 1 3/4"
B5C0732P	13	9	Bolt 7/16" x 2"
B5C0744P	13	12	Bolt 7/16" x 2 3/4"
B5C0752P	13	1	Bolt 7/16" x 3 1/4"
B5C0756P	11	16	Bolt 7/16" x 3 1/2"
B5C0824P	1	14	Bolt 1/2" x 1 1/2"
BC08128P	7	5	Bolt 1/2" x 8"
B5C08160P	7	8	Bolt 1/2" x 10"
B5C08160P	11	29	Bolt 1/2" x 10"
B5C1028P	1	4	Bolt 5/8" x 1 3/4"
B5C1028P	3	3	Bolt 5/8" x 1 3/4"
B5C1028P	7	4	Bolt 5/8" x 1 3/4"
B5C1080P	1	24	Bolt 5/8" x 5"
B5C1232P	3	18	Bolt 3/4" x 2"
B5C1272P	11	13	Bolt 3/4" x 4 1/2"
B5C16120P	1	22	Bolt 1" x 7 1/2"
B8C1232P	5	6	Bolt 3/4" x 2" GR8
CB5C0832P	11	30	Carriage Bolt 1/2" x 2"
CP0216	11	5	Cotter Pin 1/8" x 1"
CP0224	3	11	Cotter Pin 1/8" x 1 1/2"
CP0224	27	12	Cotter Pin 1/8" x 1 1/2"
CP0324	5	7	Cotter Pin 3/16" x 1 1/2"
CP0324	15	11	Cotter Pin 3/16" x 1 1/2"
CP0324	17	11	Cotter Pin 3/16" x 1 1/2"
CP0324	21	10	Cotter Pin 3/16" x 1 1/2"
CP0324	23	10	Cotter Pin 3/16" x 1 1/2"
CP0440	5	3	Cotter Pin 1/4" x 2 1/2"
CP0440	7	12	Cotter Pin 1/4" x 2 1/2"
FW07P	11	7	Flatwasher 7/16"
FW08P	11	28	Flatwasher 1/2"
HP24	13	18	Hair Pin Clip 1 1/2"
HP52	1	25	Hair Pin Clip 3 1/4"
HP52	3	8	Hair Pin Clip 3 1/4"
HP52	5	8	Hair Pin Clip 3 1/4"
HP52	21	11	Hair Pin Clip 3 1/4"
HP52	23	11	Hair Pin Clip 3 1/4"
LN5C06P	3	14	Locknut 3/8"
LN5C07P	11	8	Locknut 7/16"
LN5C07P	13	8	Locknut 7/16"
LN5C08P	1	6	Locknut 1/2"
LN5C08P	7	6	Locknut 1/2"
LN5C08P	11	27	Locknut 1/2"
LN5C08P	19	2	Locknut 1/2"
N5C06P	21	2	Nut 3/8"
N5C06P	23	2	Nut 3/8"
N5C06P	27	2	Nut 3/8"
N5C10P	1	2	Nut 5/8"
N5C10P	3	5	Nut 5/8"

PART #	PAGE	ITEM	DESCRIPTION
N5C10P	8	1	Nut 5/8"
N5C12P	3	10	Nut 5/8"
N5C12P	5	13	Nut 5/8"
N5C12P	11	15	Nut 5/8"
N5C16P	1	19	Nut 1"
UB073476	11	9	U-Bolt 7/16" x 2 1/8" x 4 3/4"
UB0850146	1	9	U-Bolt 1/2" x 3 1/8" x 9 1/8"
W10P	1	3	Lockwasher 5/8"
W10P	3	4	Lockwasher 5/8"

PART #	PAGE	ITEM	DESCRIPTION
W10P	7	2	Lockwasher 5/8"
W12P	3	9	Lockwasher 3/4"
W12P	5	12	Lockwasher 3/4"
W12P	11	14	Lockwasher 3/4"
W16P	1	20	Lockwasher 1"

