

P.O.BOX 307
VONDA, Saskatchewan
SOK 4N0
306-258-2233

TO THE OWNER:

Congratulations on the purchase of your new LAURIER HARROW BAR.

Constructed of the finest quality materials, your LAURIER HARROW BAR is engineered and designed to do normal harrowing 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 BAR. A few moments to acquaint yourself with the LAURIER HARROW 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.

HIGH LINE MFG. INC.

It is the policy of HIGH LINE MFG INC. 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.

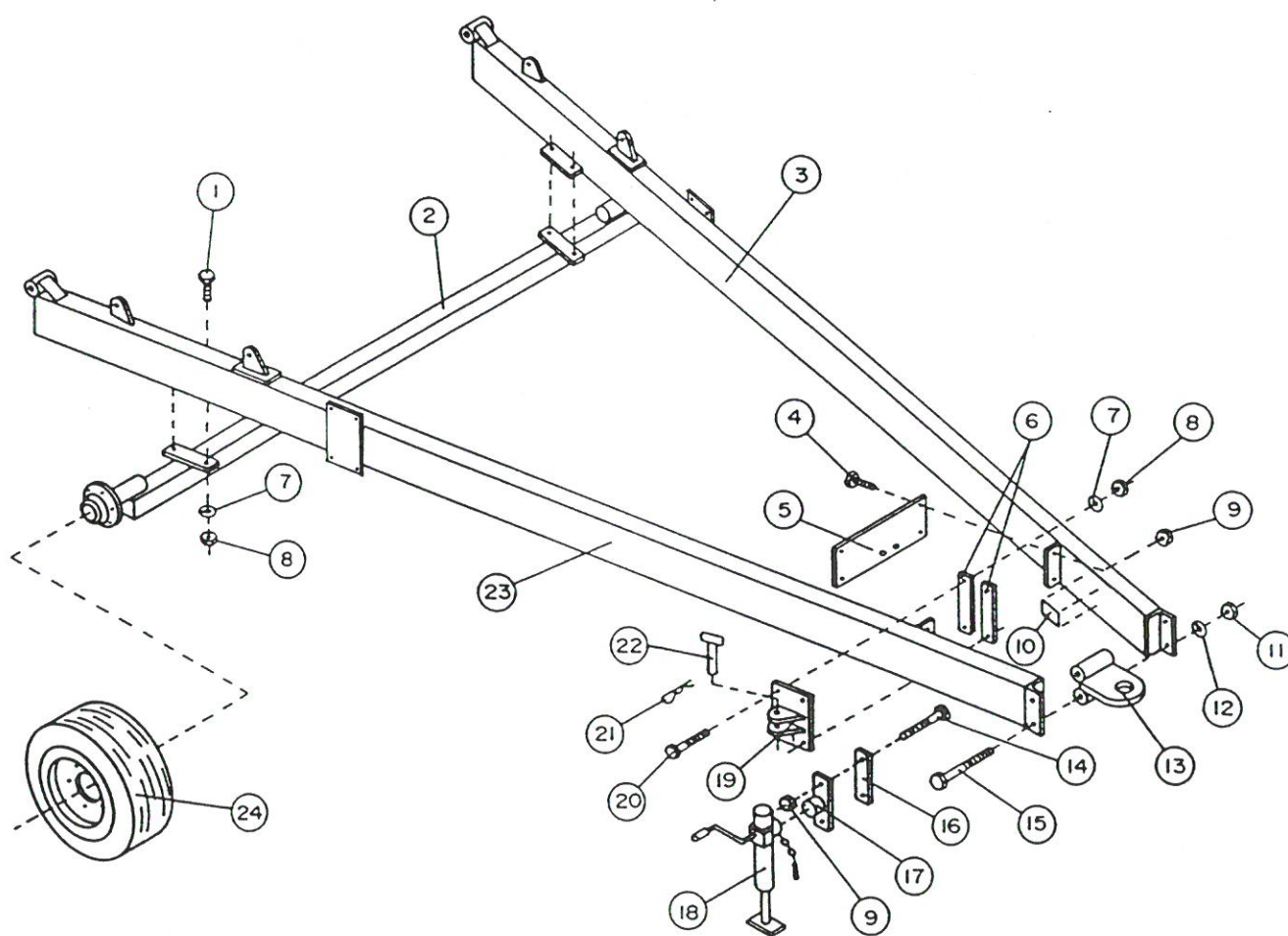
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15 ft. A-Frame Hitch

NOTE: LEFT AND RIGHT ARE DETERMINED WHEN FACING REAR OF MACHINE.
DO NOT TIGHTEN BOLTS UNTIL ALL PARTS ARE IN PLACE.

- A. INSTALL WHEELS TO AXLE FRAME #2 AND SECURE WITH WHEEL BOLTS.
- B. BOLT AXLE FRAME TO LEFT AND RIGHT HITCHES USING CABLE BACKING PLATE #6 AND 5/8" x 5" BOLTS.
- C. ASSEMBLE CABLE BRACKETS (OPTIONAL) #19 TO LEFT AND RIGHT HITCHES USING CABLE BACKING PLATE #6 AND 5/8" x 5" BOLTS.
- D. INSTALL BOLTS ON DRAW HITCH #13 TO LEFT AND RIGHT HITCHES USING 1" x 7 1/2" BOLTS.
- E. SIDEWIND JACK #18 IS OPTIONAL.

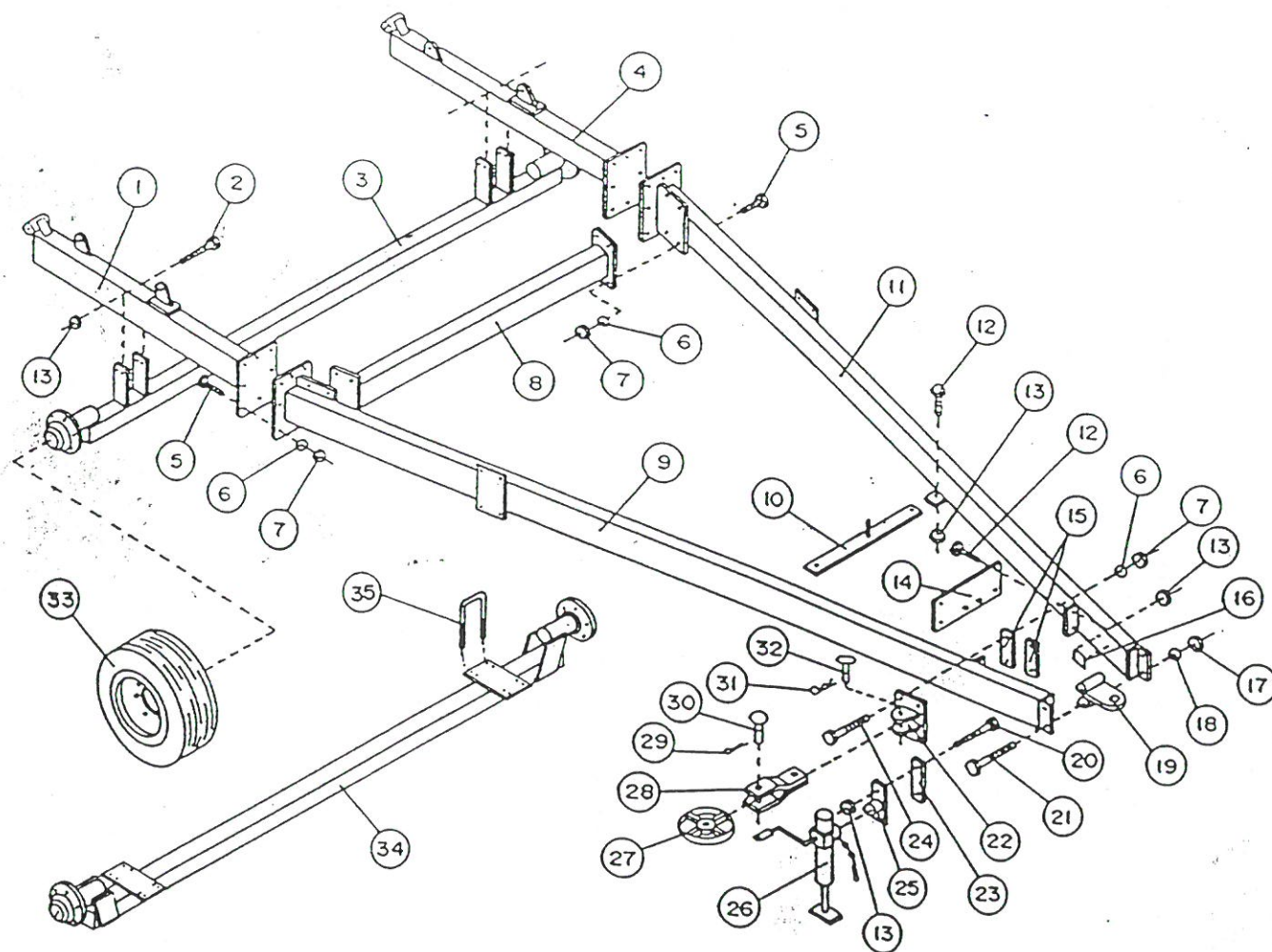


ITEM	PART NUMBER	DESCRIPTION	Nº
1	B5C1032P	Bolt 5/8" x 2"	4
2	20001	15' Frame Axle	1
3	20002	15' Left A-Frame Hitch	1
4	B5C0824P	Bolt 1/2" x 1 1/2"	4
5	20125	Cross Plate	1
6	20112	Cable Bracket Plates	4
7	W10P	Lockwasher 5/8"	12
8	N5C10P	Nut 5/8"	12
9	LN5C08P	Lock Nut 1/2"	4
10	92003	Serial Number Plate	1
11	N5C16P	Nut 1"	2
12	W16P	Lock Washer 1"	2
13	10022	Bolt on Draw Hitch	1
14	B5C0896P	Bolt 1/2" x 6" (optional)	2
15	B5C16120P	Bolt 1" x 7 1/2"	2
16	20045	Backing Plate (optional)	1
17	20046	Jack Plate c/w stub (optional)	1
18	92002	Sidewind Jack	1
19	20006	Bolt on Cable Bracket	2
20	B5C1080P	Bolt 5/8" x 5"	8
21	HP52	Hair Pin clip 3 1/4"	2
22	10060	Cable Bracket Pin	2
23	20003	15' Right A-Frame hitch	1
24	91025	9.5L x 6 ply c/w 6" Wheel Rim	*
	91026	9.5L x 6 ply c/w 8" Wheel Rim	*
	91027	11 L x 6 ply c/w 8" Wheel Rim	*
		*As Required	

20 ft. A-Frame Hitch

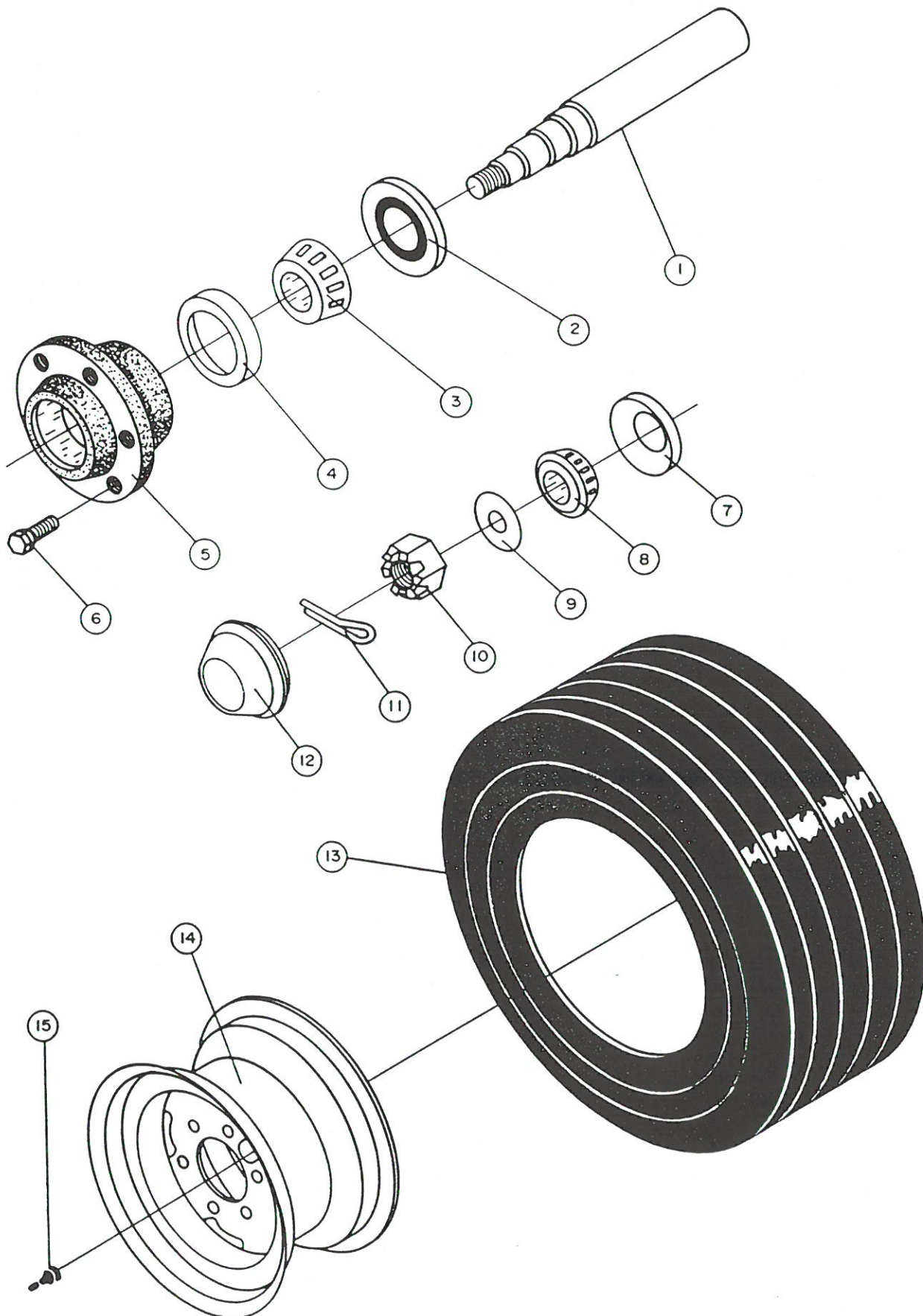
NOTE: LEFT AND RIGHT ARE DETERMINED WHEN FACING REAR OF MACHINE.
DO NOT TIGHTEN BOLTS UNTIL ALL PARTS ARE IN PLACE.

- A. INSTALL WHEELS TO AXLE FRAME #3 AND SECURE WITH WHEEL BOLTS.
- B. BOLT AXLE FRAME TO LEFT AND RIGHT HITCH TUBE (#1,#4), 23" FROM PIVOT HINGE ON HITCH TUBE TO CENTRE OF WHEEL AXLE. BOLT AXLE WITH 1/2" x 4 1/2" BOLTS.
- C. BOLT LEFT AND RIGHT HITCHES (#9,#11), TO LEFT AND RIGHT HITCH TUBE WITH 5/8" x 1 3/4" BOLTS.
- D. BOLT CROSS MEMBER #8 TO LEFT AND RIGHT HITCHES WITH 5/8" x 1 3/4" BOLTS.
- E. BOLT CROSS ANGLE #10 AND CROSS PLATE #14 TO LEFT AND RIGHT HITCHES WITH 1/2" x 1 1/2" BOLTS.
- F. ASSEMBLE CABLE BRACKET #22 TO LEFT AND RIGHT HITCHES WITH CABLE BRACKET BACKING PLATES #15 AND 5/8" x 5" BOLTS.
- G. INSTALL BOLT ON DRAW HITCH #9 TO LEFT AND RIGHT HITCHES WITH 1" x 7 1/2" BOLTS.
- H. SET-UP STRAIGHT AXLE #34 (OPTIONAL) SAME DISTANCE FROM PIVOT AS STANDARD AXLE. ASSEMBLE WITH 1/2" U-BOLT #35 WITH 1/2" LOCKNUT #13.
- I. SIDEWIND JACK #26 IS OPTIONAL.



ITEM	PART NUMBER	DESCRIPTION	Nº
1	20010	20' Right A-Frame Hitch Tube	1
2	B5C0872P	Bolt 1/2" x 4 1/2"	4
3	20008	20' Frame Axle c/w 611 Spindles	1
4	20009	20' Left A-Frame Hitch Tube	1
5	B5C1028P	Bolt 5/8" x 1 3/4	20
6	W10P	Lockwasher 5/8"	28
7	N5C10P	Nut 5/8"	28
8	20011	A-Frame Cross Member	1
9	20013	20' Right A-Frame Hitch	1
10	20014	A-Frame Cross Member	1
11	20012	20' Left A-Frame Hitch	1
12	B5C0824P	Bolt 1/2" x 1 1/2"	6
13	LN5C08P	Locknut 1/2"	10
14	20125	Cross Plate	1
15	20112	Cable Bracket Plates	4
16	92003	Serial Number Plate	2
17	N5C16P	Nut 1"	2
18	W16P	Lockwasher 1"	2
19	10022	Bolt on Draw Hitch	2
20	B5C0896P	Bolt 1/2" x 6" (optional)	2
21	B5C16120P	Bolt 1" x 7 1/2"	2
22	20006	Bolt on Cable Bracket	2
23	20045	Backing Plate (optional)	1
24	B5C1080P	Bolt 5/8" x 5"	8
25	20046	Jack Plate c/w Stub (optional)	1
26	92002	Sidewind Jack (optional)	2
27	92004	Cable Pulley (optional)	2
28	20016	Cable Bracket Pulley Holder (optional)	2
29	CPO324	Cotter Pin 3/16" x 1 1/2"	2
30	20017	Cable Pulley Pin 1" x 3" (optional)	2
31	HP52	Hair Pin Clip 3 1/4"	2
32	10060	Cable Bracket Pin	2
33	91025	9.5L x 6 ply c/w 6" Wheel Rim	*
	91026	9.5L x 6 ply c/w 8" Wheel Rim	*
	91027	11L x 8 ply c/w 8" Wheel Rim	*
34	20128	Straight Axle c/w 812 Hubs (optional)	1
35	UB0848112	U-Bolt 1/2" x 3" x 7" (optional)	8

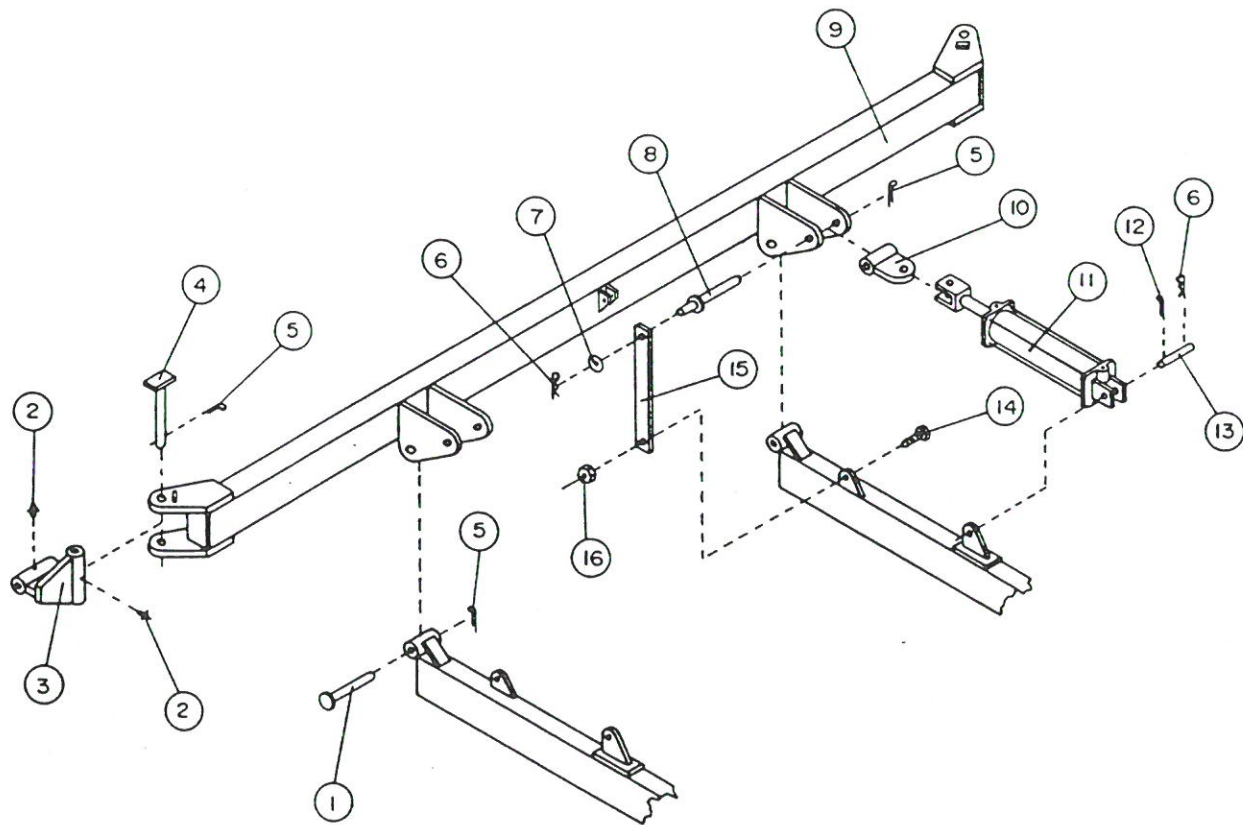
611 Hub and Spindle



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Center Tube

- A. SECURE CENTRE TUBE #9 TO A-FRAME WITH PINS #1,(1 1/4" x 7 1/2")
- B. TIGHTEN ALL BOLTS ON HITCHES.
- C. SECURE CYLINDER SWIVEL BRACKET #10 TO CENTRE TUBE WITH PIN #8,
(1" x 7").
- D. POSITION CYLINDERS #11,
ROD END TO SWIVEL BRACKET WITH PINS #13 (1" x 3 3/4")
 - * ON 15 FT. A-FRAME PORTS INWARDS
 - * ON 20 FT. A-FRAME PORTS UPWARDS
- E. PLACE CYLINDER LOCKS #15 IN PLACE AND SECURE WITH 3/4" x 2"
Gr. 8 BOLTS. TIGHTEN TO ALLOW LOCK PLATE TO MOVE FREELY.
- F. PLACE LEFT AND RIGHT KNUCKLES #3, GREASE NIPPLES IN UP POSITION,
AND SECURE IN PLACE WITH PINS #4 (1 1/4" x 8 3/4") TO CENTRE TUBE.

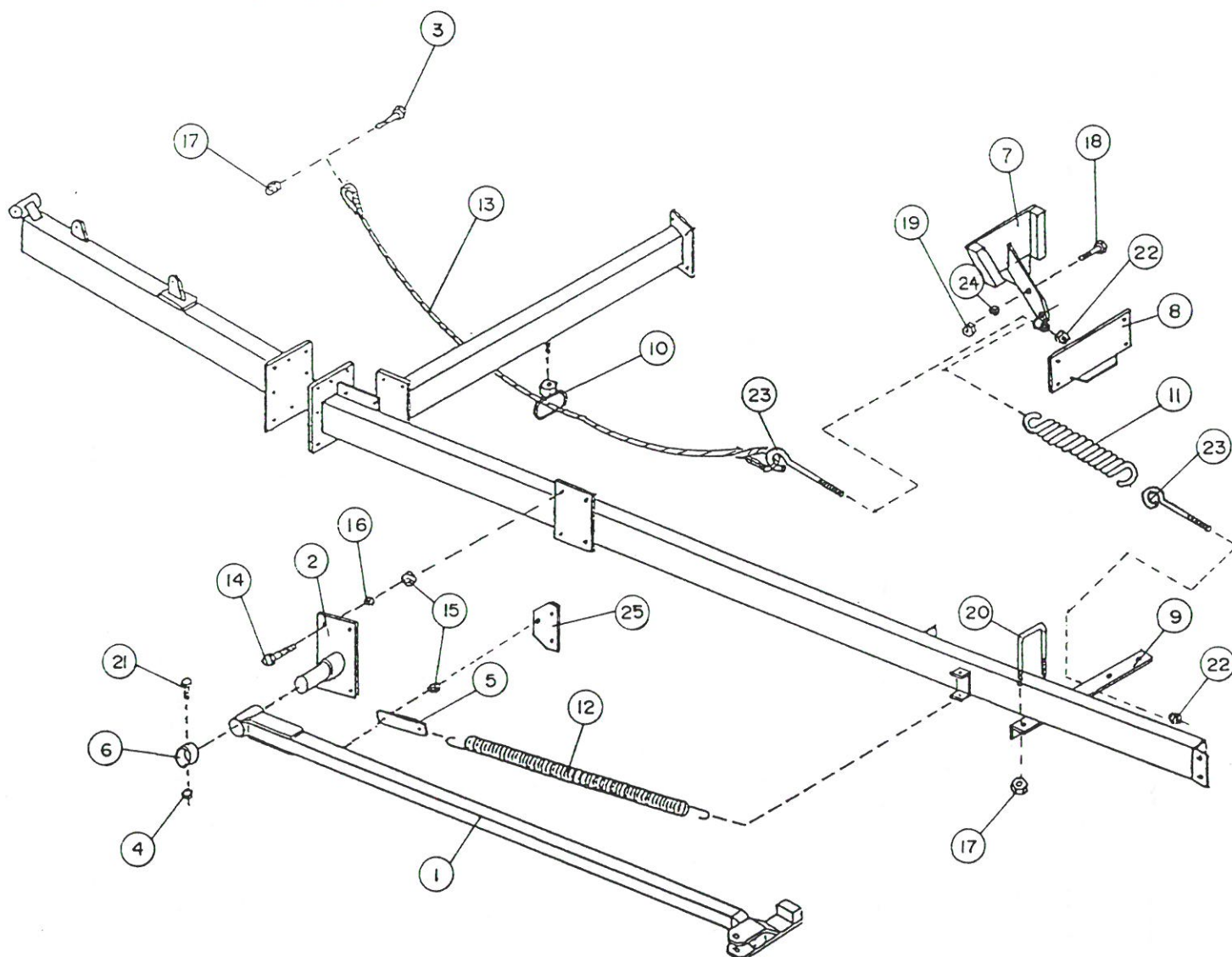


ITEM	PART NUMBER	DESCRIPTION	Nº
1	10015	Pin Hitch 1 1/4" x 7 1/2"	2
2	91700	Grease Nipple 1/8" Straight	4
3	30003	Right Knuckle	1
	30002	Left Knuckle	1
4	20020	Pin Knuckle 1 1/4" x 8 3/4"	2
5	CPO440	Cotter Pin 1/4" x 2 1/2"	6
6	HP52	Hair Pin Clip 3 1/4"	6
7	FW16P	Flatwasher 1"	2
8	20023	Pin Cylinder Lock 1" x 7"	2
9	20018	11 Ft. Centre	1
10	20084	Cylinder Swivel	2
11	90103	Cylinder 3 1/2" x 16"	2
12	CPO324	Cotter Pin 3/16" x 1 1/2"	4
13	91603	Pin Cylinder 1" x 3 3/4"	4
14	B8C1232P	Bolt 3/4" x 2" Grade 8	2
15	20024	Cylinder Lock	1
16	LN5C12P	Locknut 3/4"	2

Two Piece Auto Fold

NOTE: DO NOT TIGHTEN BOLTS UNTIL ALL PARTS ARE IN PLACE.

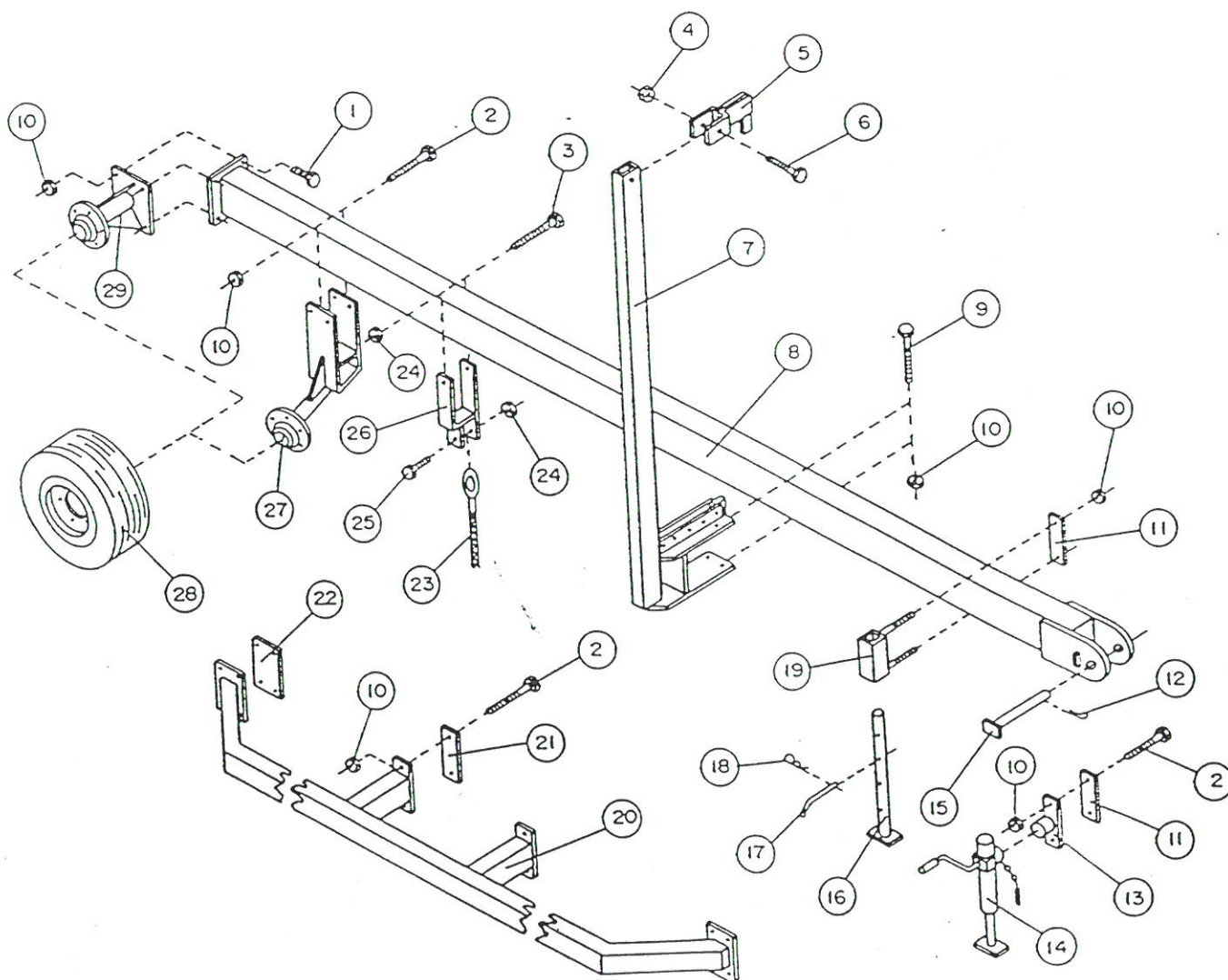
- A. BOLT AUTOFOLD A-FRAME BRACKET RIGHT #2, TO THE 15 FT. OR 20 FT. A-FRAME AS SHOWN. SLIP RIGHT ARM #1 ON COLLAR AND BOLT SHAFT COLLAR #6 WITH 1/4" x 2 1/4" BOLT. DO THE SAME FOR LEFT SIDE.
- B. LOOSELY BOLT AUTOFOLD CABLE BRACKET (#3,#4) TO CENTRE TUBE WITH 1/2" x 9 1/2" BOLTS. TIGHTEN AFTER LIFT ARMS ARE IN PLACE.
- C. INSTALL CABLE #13 TO CABLE BRACKET AND LOCK ARM.
- D. BOLT FRONT LOCK #7 TO #8 CROSS PLATE. ATTACH CABLE #13 TO END OF FRONT LOCK.
- E. BOLT SPRING PLATE #15 TO LOCK ARM. ATTACH SPRING #12 TO FRONT PLATE ON A-FRAME.
- F. U-BOLT #20 TO THE TENSION SPRING PLATE #9. ATTACH SPRING TO IT AND FRONT LOCK #7.
- G. SPLIT WING WAS A DOUBLE SPRING SYSTEM ON EACH ARM. OMIT BRACKET #5 AND BOLT BRACKET #25 TO AUTOFOLD ARMS. ATTACH TWO SPRINGS TO BRACKET #25 AND TO THE A-FRAME. DO THE SAME FOR BOTH SIDES



ITEM	PART NUMBER	DESCRIPTION	Nº
1	20124	Auto Fold Right Arm	1
	20123	Auto Fold Left Arm	1
2	20106	A-Frame Bracket Right	1
	20105	A-Frame Bracket Left	1
3	B5C0724P	Bolt 1/2" x 2"	1
4	LN5C04P	Locknut 1/4"	2
5	20108	Backing Plate	2
6	20110	Shaft Collar	2
7	20126	Front Lock	1
8	20125	Cross Plate	1
9	20127	Front Plate	1
10	20114	Cable Bracket	1
11	91405	Auto Fold Tension Spring	1
12	91400	Auto Fold Spring	2
13	91828	10'6" Auto Fold Cable (15 ft. A-Frame)	1
	91829	15'9" Auto Fold Cable (20 ft. A-Frame)	1
14	B5C1028P	Bolt 5/8" x 1 3/4"	12
15	N5C10P	Nut 5/8"	8
16	W10P	Lockwasher 5/8"	8
17	LN5C08P	Locknut 1/2"	1
18	B5C1232P	Bolt 3/4" x 2"	1
19	N5C12P	Nut 3/4"	1
20	UB085112	U-Bolt 1/2" x 3 1/8" x 7"	2
21	B5C0428P	Bolt 1/4" x 1 3/4"	2
22	LN5C07P	Locknut 7/16"	1
23	EB0788P	Eye Bolt 7/16" x 5 1/2"	2
24	W12P	Lockwasher 3/4"	1
25	20215	Split Wing Spring Bracket	2

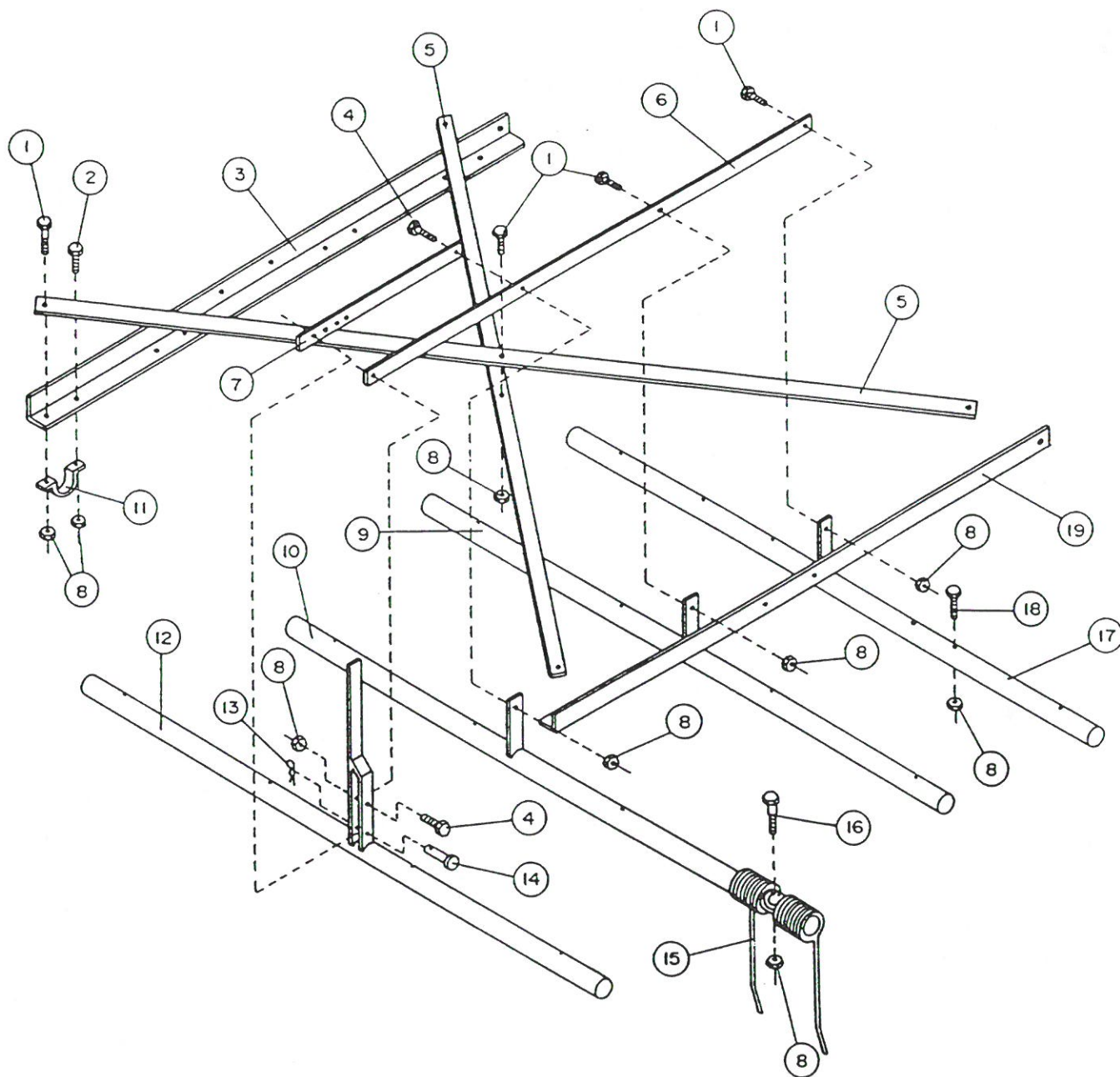
Wing Tubes

- A. SECURE WING TUBE #8 TO CENTRE TUBE KNUCKLES #3 PAGE 7 WITH KNUCKLE PINS #15 (1 1/4" x 7 1/4"). PLACING PIN STOP FACING OUTWARD.
- B. LOOSELY BOLT TRANSPORT WHEEL #27 TO WING TUBE USING 1/2" x 6" BOLTS. INSTALL WHEELS. SPECIAL TRANSPORT WHEEL REQUIRED FOR 40" PARALLELS.
- C. BOLT END WHEELS #29 TO WING TUBE, WITH GUSSETS OUTWARD, USING 1/2" x 1 1/2" BOLTS. INSTALL WHEELS.
- D. BOLT EITHER STANDARD JACK OR OPTIONAL SIDEWIND JACK TO WING TUBE.
- E. LOOSELY BOLT CABLE BRACKETS #26 TO WING TUBE USING 3/4" x 6 1/2" BOLTS. PLACE CABLE BRACKETS IN FRONT OF TRANSPORT WHEELS.
- F. FOR PROPER LIFT ARM SPACINGS SEE FOLLOWING PAGES.
BOLT LIFT ARM CABLE STOPPER #5 ON FIRST LIFT ARM ON WING TUBE ONLY. USE 7/16" x 2 1/4" BOLT.



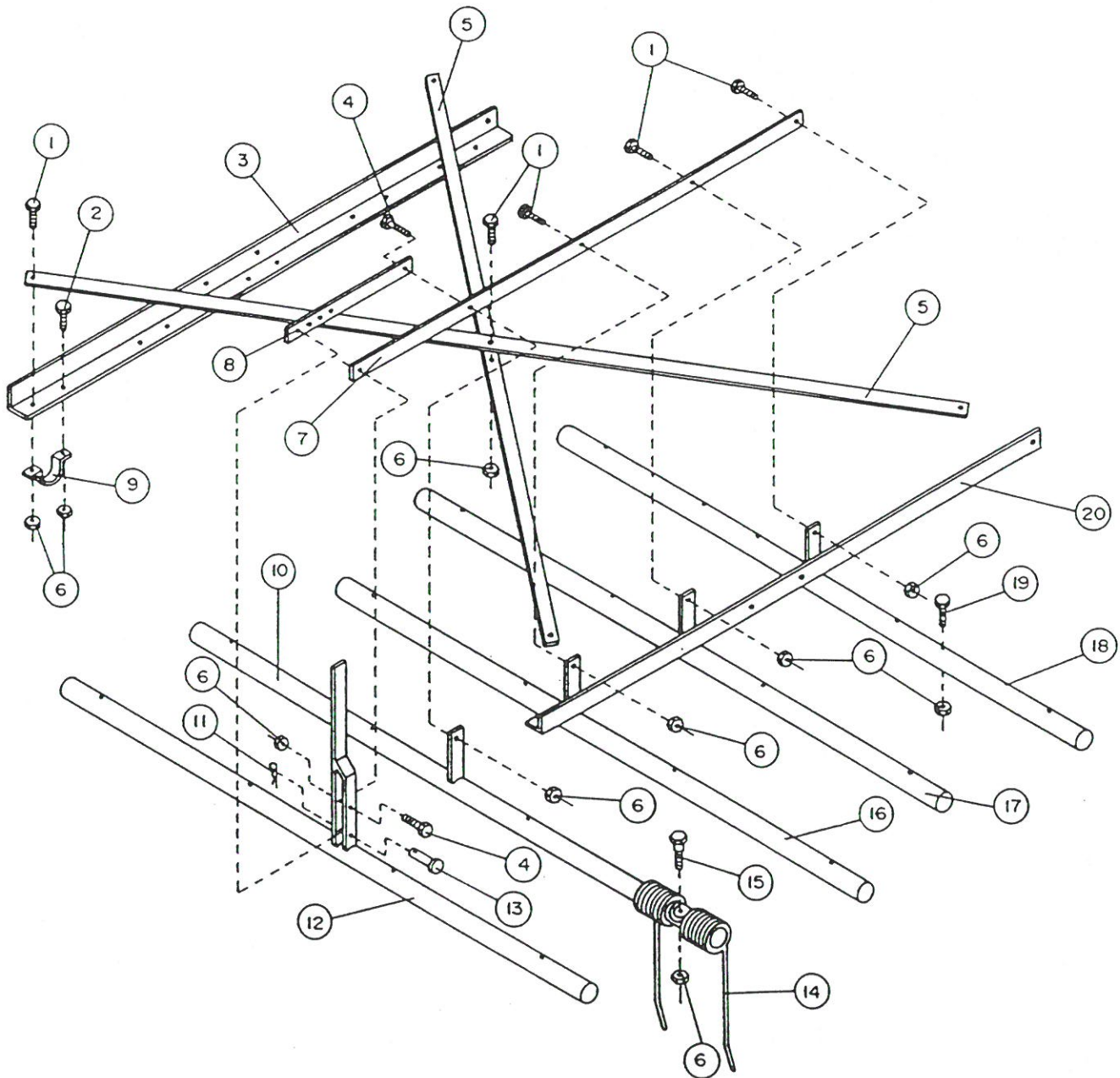
ITEM	PART NUMBER	DESCRIPTION	Nº
1	B5C0824P	Bolt 1/2" x 1 1/2"	8
2	B5C0896P	Bolt 1/2" x 6"	4
3	B5C12104P	Bolt 3/4" x 6 1/2"	2
4	LN5C07P	Locknut 7/16"	2
5	20096	Lift Arm Cable Stopper (optional)	2
6	B5C0736P	Bolt 7/16" x 2 1/4"	2
7	20041	Lift Arm	*
8	20095	14'6" Wing Tube for 40 ft.	2
	20028	19'0" Wing Tube for 50 ft.	2
	20119	24'0" Wing Tube for 60 ft.	2
	20035	29'0" Wing Tube for 70 ft.	2
	20037	34'6" Wing Tube for 80 ft.	2
9	B5C08112P	Bolt 1/2" x 7"	*
10	LN5C08P	Locknut 1/2"	*
11	20045	Backing Plate	2
12	CPO440	Cotter Pin 1/4" x 2 1/2"	2
13	20046	Jack Plate c/w Stub (optional)	2
14	92022	Stabilizer Jack (optional)	2
15	20051	Knuckle Pin (1 1/4" x 7")	2
16	20047	Jack Pipe	2
17	20049	Jack Pin	2
18	HP24	Hair Pin Clip 1 1/2"	2
19	20048	Jack Bracket	2
20	20094	Bridging 70 & 80 ft.	2
21	20044	Bridging Backing Plate c/w 2 Holes	10
22	20042	Bridging Backing Plate c/w 4 Holes	4
23	91804	18' Cable for 40 ft.	2
	91805	23'4" Cable for 50,60,70 ft.	2
	91806	28'4" Cable for 80 ft.	2
24	N5C1232P	Nut 3/4"	2
25	B5C1232P	Bolt 3/4" x 2"	2
26	20040	Cable Bracket	2
27	20039	Left Transport Wheel c/w 611 Hub	1
	20089	Right Transport Wheel c/w 611 Hub	1
	20075	Split Wing Left Transport Wheel - 611 Hub	1
	20091	Split Wing Right Transport Wheel - 611 Hub	1
28	91025	9.5L x 6 ply c/w 6" Wheel Rim	*
	91026	9.5L x 6 ply c/w 8" Wheel Rim	*
	91027	11L x 6 ply c/w 8" Wheel Rim	*
29	20038	End Wheel c/w 611 Hub	2
		*As Required	

5 ft. Section (4 Bar)



ITEM	PART NUMBER	DESCRIPTION	Nº
1	B5C0720P	Bolt 7/16" x 1 1/4"	8
2	B5C0716P	Bolt 7/16" x 1"	12
3	10107	Left Angle 5' Section	1
4	B5C0728P	Bolt 7/16" x 1 3/4"	2
5	10120	Cross Brace 5' Section	2
6	10051	Centre Tie	1
7	10118	Adjustment Bar 5' Section	1
8	LN5C07P	Locknut 7/16"	39
9	10111	2nd Pipe 5' Section	1
10	10113	3rd Pipe 5' Section	1
11	92018	5' Section Pipe Clamp	10
12	10114	4th Pipe 5' Section	1
13	HP24	Hair Pin Clip 1 1/2"	1
14	91600	Pin Section 7/16" x 1 1/2"	1
15	91403	Tine 3/8" x 12" 5' Section	16
16	92008	Special Head Bolt Tines	16
17	10110	Front Pipe 5' Section	1
18	B5C0732P	Bolt 7/16" x 2"	1
19	10106	Right Angle 5' Section	1
	10137	5' Section Complete	*
* As Required			

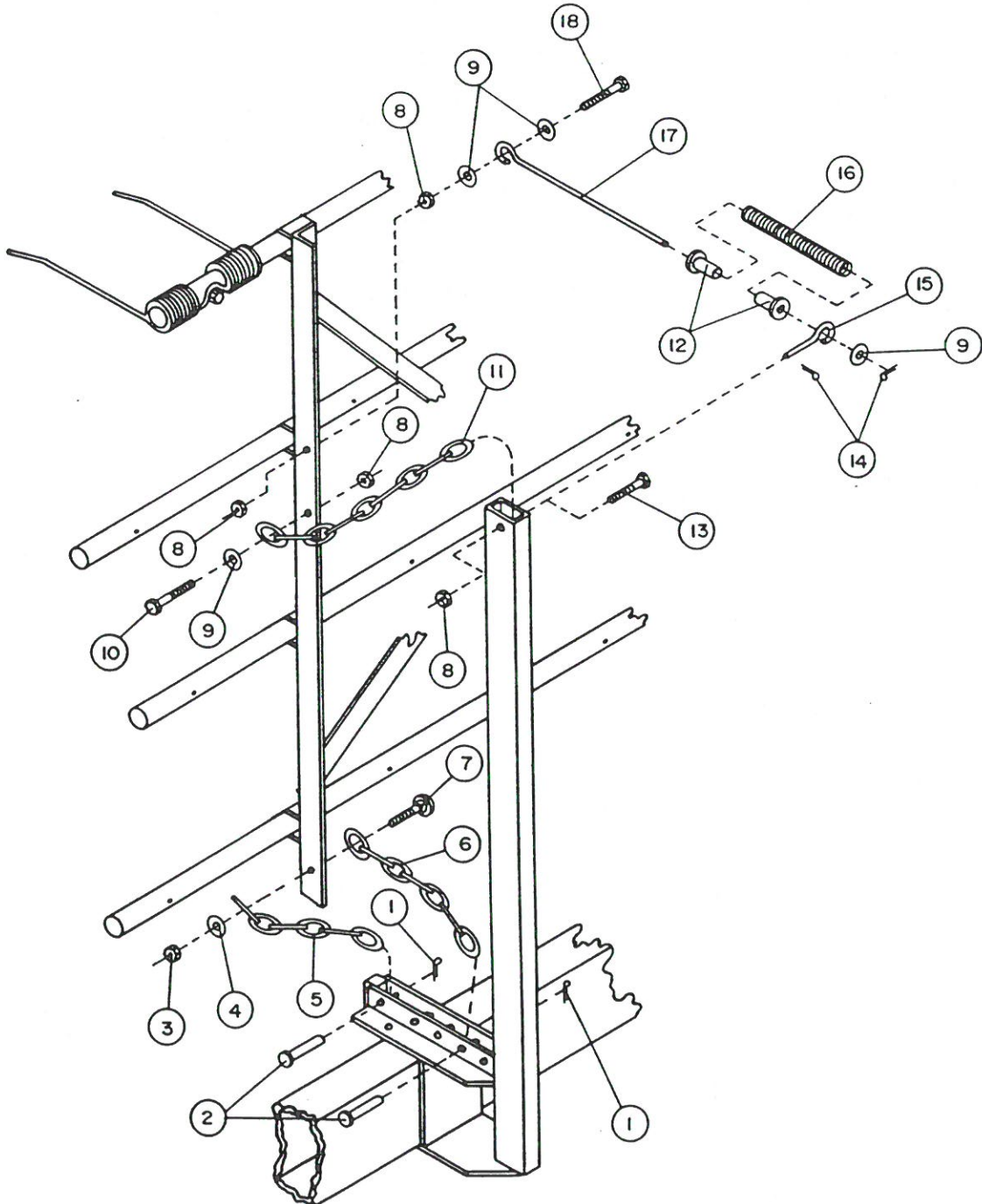
5 ft. Section (5 Bar)



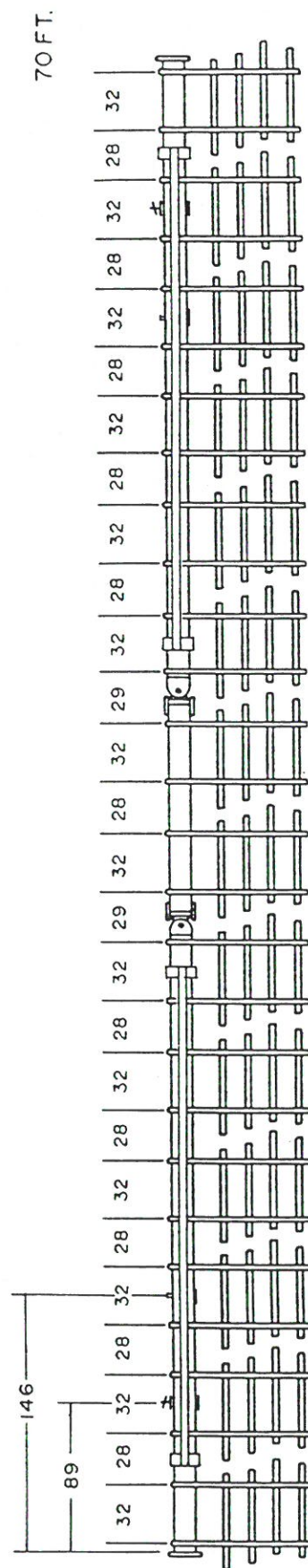
ITEM	PART NUMBER	DESCRIPTION	Nº
1	B5C0720P	Bolt 7/16" x 1 1/4"	8
2	B5C0716P	Bolt 7/16" x 1"	16
3	10109	Left Angle 5' Section	1
4	B5C0728P	Bolt 7/16" x 1 3/4"	2
5	10120	Cross Brace 5' Section	1
6	LN5C07P	Locknut 7/16"	48
7	10121	Centre Tie	1
8	10119	Adjustment Bar 5' Section	1
9	92018	5' Section Pipe Clamp	4
10	10115	4th Pipe 5' Section	1
11	HP24	Hair Pin Clip 1 1/2"	1
12	10116	5th Pipe 5' Section	1
13	91600	Pin Section 7/16" x 1 1/2"	1
14	91403	Tine 3/8" x 12" 5' Section	20
15	92008	Special Head Bolt Tines	20
16	10113	3rd Pipe 5' Section	1
17	10112	2nd Pipe 5' Section	1
18	10110	Front Pipe 5' Section	1
19	B5C0732P	Bolt 7/16" x 2"	1
20	10108	Right Angle 5' Section	1
	10138	5' Section Complete 5 Bar	*
*As Required			

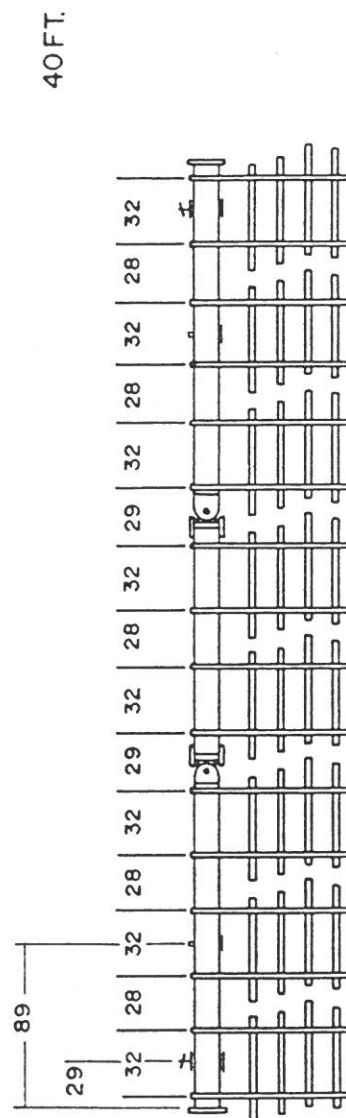
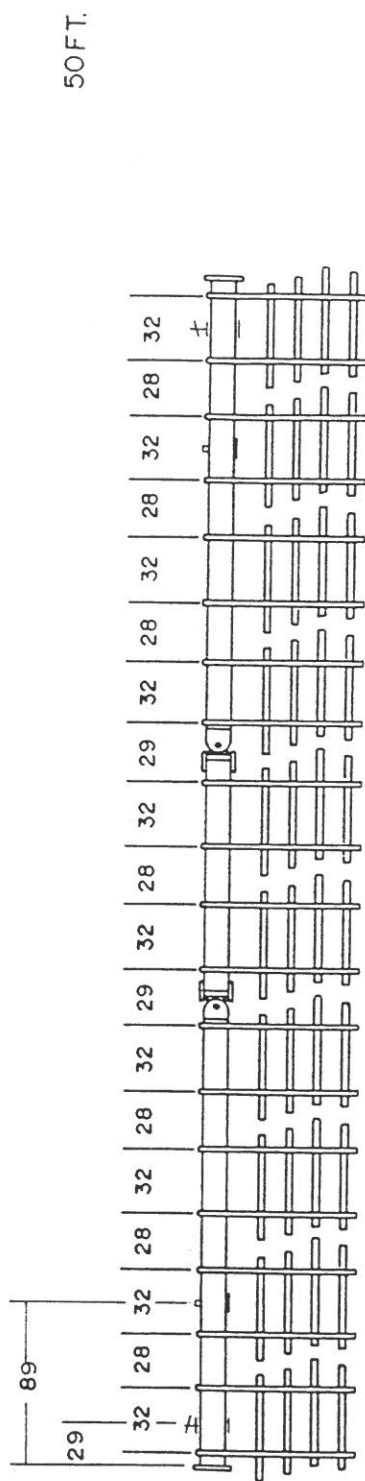
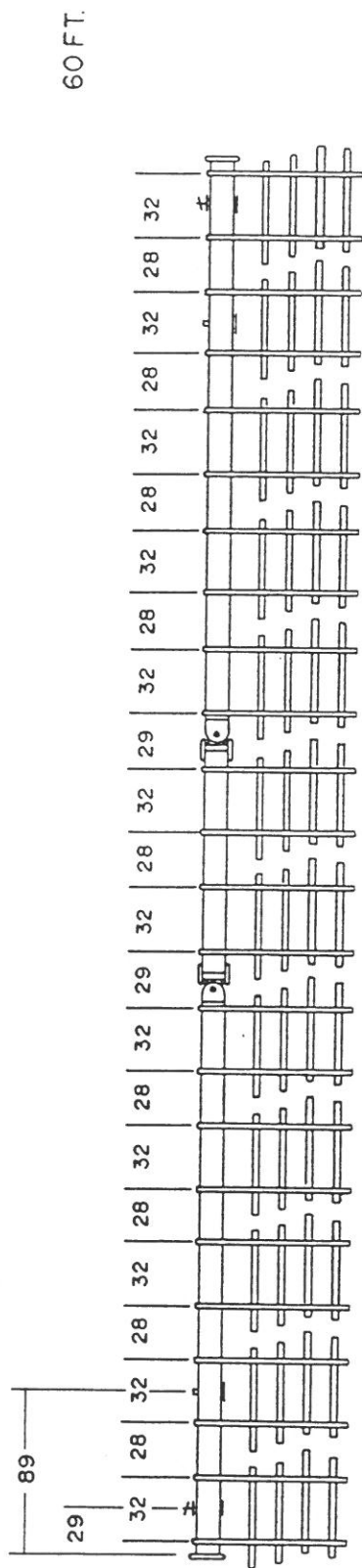
Sections Mounted to Lift Arms

- A. SECURE 6 & 7 LINK CHAINS, (#5 & #6), TO SECTION ANGLES WITH $1/2" \times 2"$ CARRIAGE BOLT, ALSO SECURE 9 LINK CHAIN #11, TO FRONT HOLE ON SECTIONS WITH $7/16" \times 1 \frac{1}{4}"$ BOLT.
- B. WITH HARROW BAR IN TRANSPORT POSITION, LIFT ARMS UPRIGHT, POSITION HARROW SECTIONS ONTO LIFT ARMS. SECURE 9 LINK CHAIN TO LIFT ARM WITH $7/16" \times 2"$ BOLT. SECURE 6 & 7 LINK CHAIN TO LIFT ARM ANGLES WITH PINS #2 ($1/2" \times 1 \frac{5}{8}"$).
- C. TO CONNECT OPTIONAL PRESSURE SPRING, UNBOLT $7/16" \times 2"$ BOLT AND PUT PIN #15 IN POSITION. BOLT BOTTOM OF ROD #17 TO SECTION ANGLE BACK HOLE USING $7/16" \times 2 \frac{3}{4}"$ BOLT.



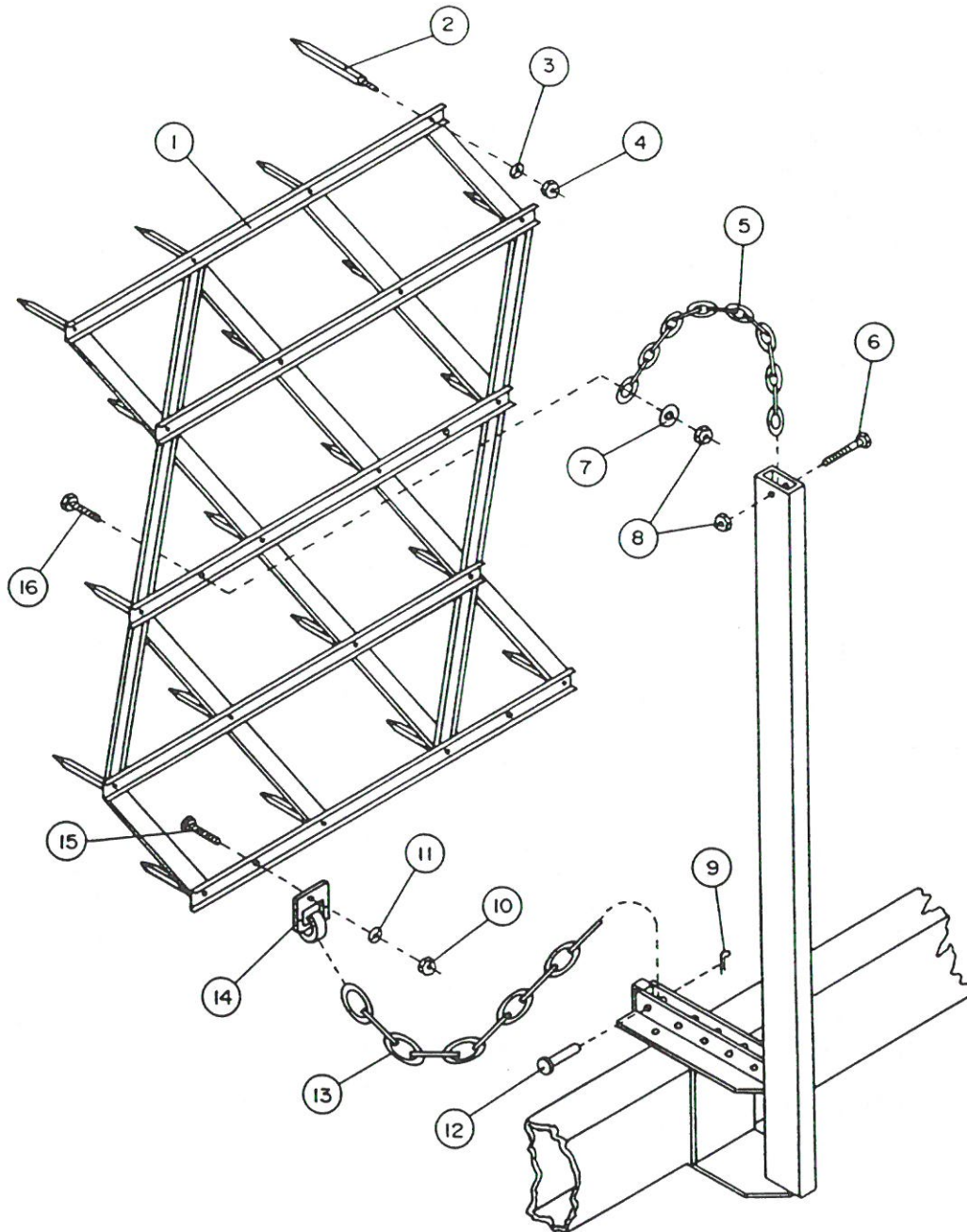
ITEM	PART NUMBER	DESCRIPTION	Nº
1	CPO216	Cotter Pin 1/8" x 1"	4
2	91601	Pin Chain 1/2" x 1 5/8"	4
3	LN5C08P	Locknut 1/2"	2
4	FW08P	Flatwasher 1/2"	2
5	91501	6 Link Chain 5/16"	2
6	91500	7 Link Chain 5/16"	2
7	WLB5C0824P	Whiz Lock Bolt 1/2" x 1 1/2"	2
8	LN5C07P	Locknut 7/16"	2
9	FW07P	Flatwasher 7/16"	*
10	B5C0720P	Bolt 7/16" x 1 1/4"	2
11	91502	9 Link Chain 5/16"	2
12	20052	Pressure Spring Holder (optional)	*
13	B5C0720P	Bolt 7/16" x 1 1/4"	2
14	CPO324	Cotter Pin 3/16" x 1 1/2" (optional)	*
15	92007	Pressure Spring Connector (optional)	*
16	91402	Pressure Spring (optional)	*
17	92006	Pressure Spring Rod (optional)	*
18	B5C0744P	Bolt 7/16" x 2 3/4" (optional)	*
*As Required			

[illegible]



Parallels Mounted to Lift Arms

- A. BOLT PARALLEL CHAIN CONNECTOR #14 TO PARALLEL SECTIONS USING $3/8"$ x $1\ 3/4"$ BOLTS.
- B. FASTEN 10 LINK CHAIN #13 TO PARALLEL SECTION.
- C. BOLT 24 INCH CHAIN #5 TO CENTRE BAR ON PARALLEL SECTION USING $7/16"$ x $1\ 1/4"$ BOLT.
- D. WITH HARROW BAR IN TRANSPORT POSITION, LIFT ARMS UPRIGHT, POSITION HARROW PARALLELS ONTO LIFT ARMS. SECURE 10 LINK CHAIN TO LIFT ARM ANGLE USING PIN #12 ($7/16"$ x $1\ 1/2"$). SECURE 24 INCH CHAIN TO LIFT ARM USING $7/16"$ x $2"$ BOLT.

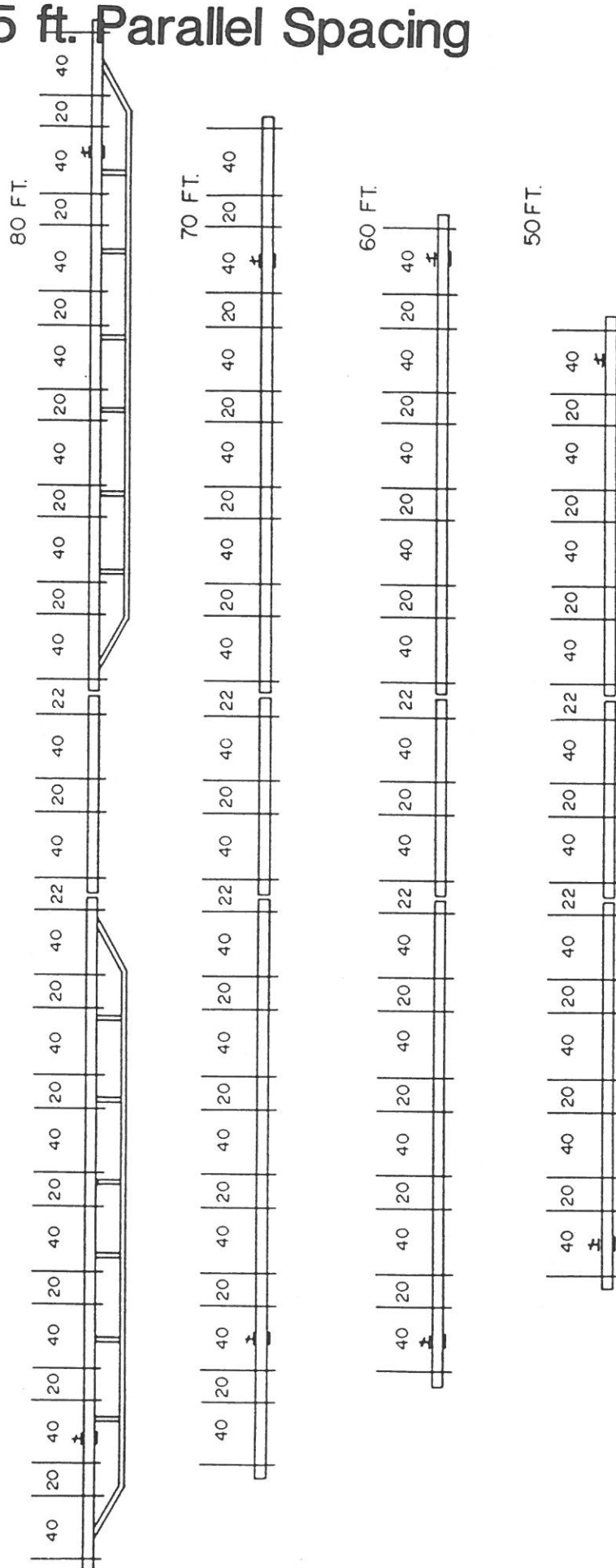


ITEM	PART NUMBER	DESCRIPTION	Nº
1	92009	60" Parallel Section c/w 5" Tooth	1
	92069	60" Parallel Section c/w 7" Tooth	1
2	92011	Parallel Spikes Short	*
	92047	Parallel Spikes Long	*
3	W10P	Lockwasher 5/8"	*
4	N5C10P	Nut 5/8"	*
5	91503	24 Inches Chain 1/4"	2
6	B5C0732P	Bolt 7/16" x 2"	2
7	FW07P	Flatwasher 7/16"	2
8	LN5C07P	Locknut 7/16"	4
9	CPO216	Cotter Pin 1/8" x 1"	2
10	N5C06P	Nut 3/8"	2
11	W06P	Lockwasher 3/8"	2
12	91600	Pin Section 7/16" x 1 1/2"	2
13	91504	10 Link Chain 11/32"	2
14	92012	Parallel Chain Connector	2
15	B5C0628P	Bolt 3/8" x 1 3/4"	2
16	B5C0720P	Bolt 7/16" x 1 1/4"	2
		*As Required	



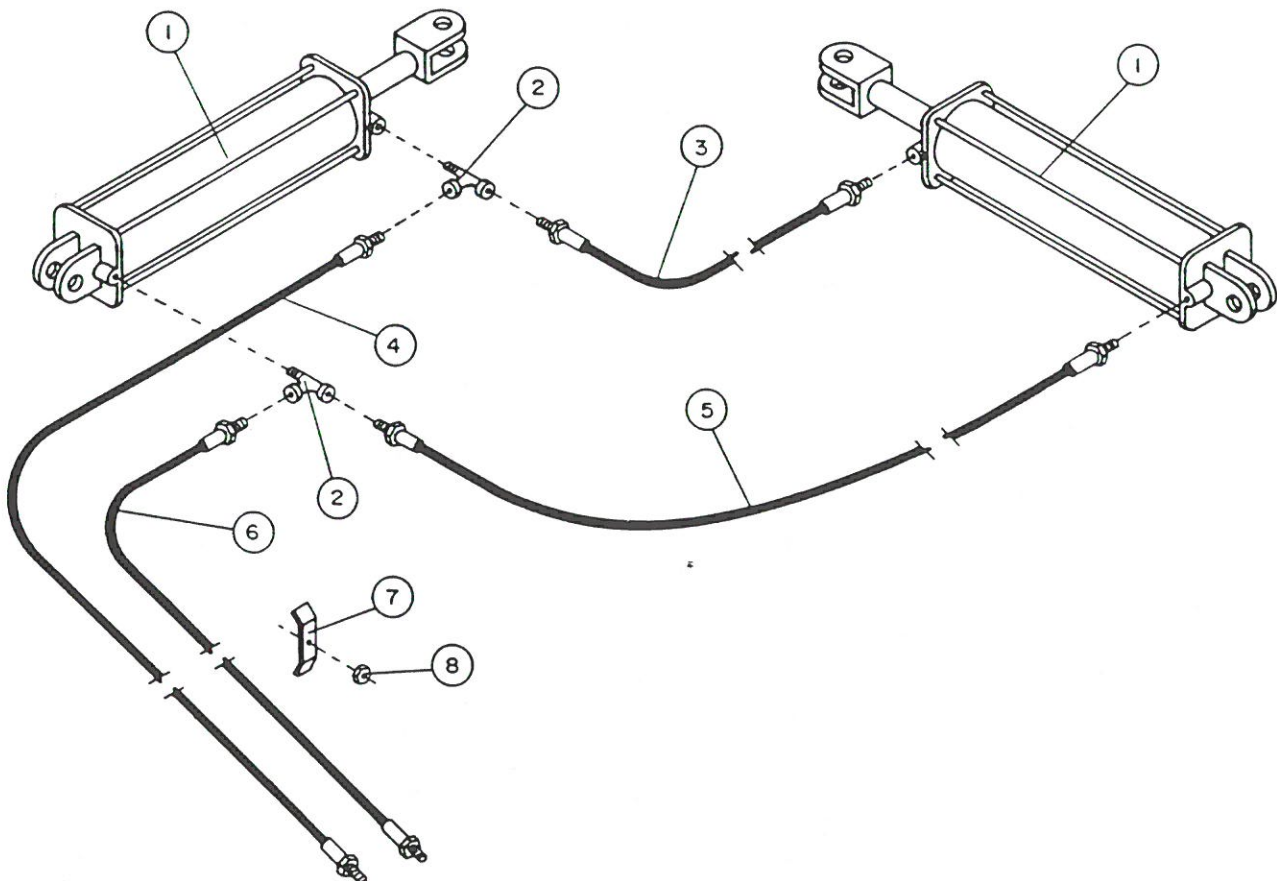
5 ft. Parallel Spacing

- A. Assemble lift arms in transport position.
- B. Lift arm spacing measured from centre to centre of the lift arms.
- C. Measure and mark spacing before securing lift arms.



15 ft. A-Frame Hydraulic

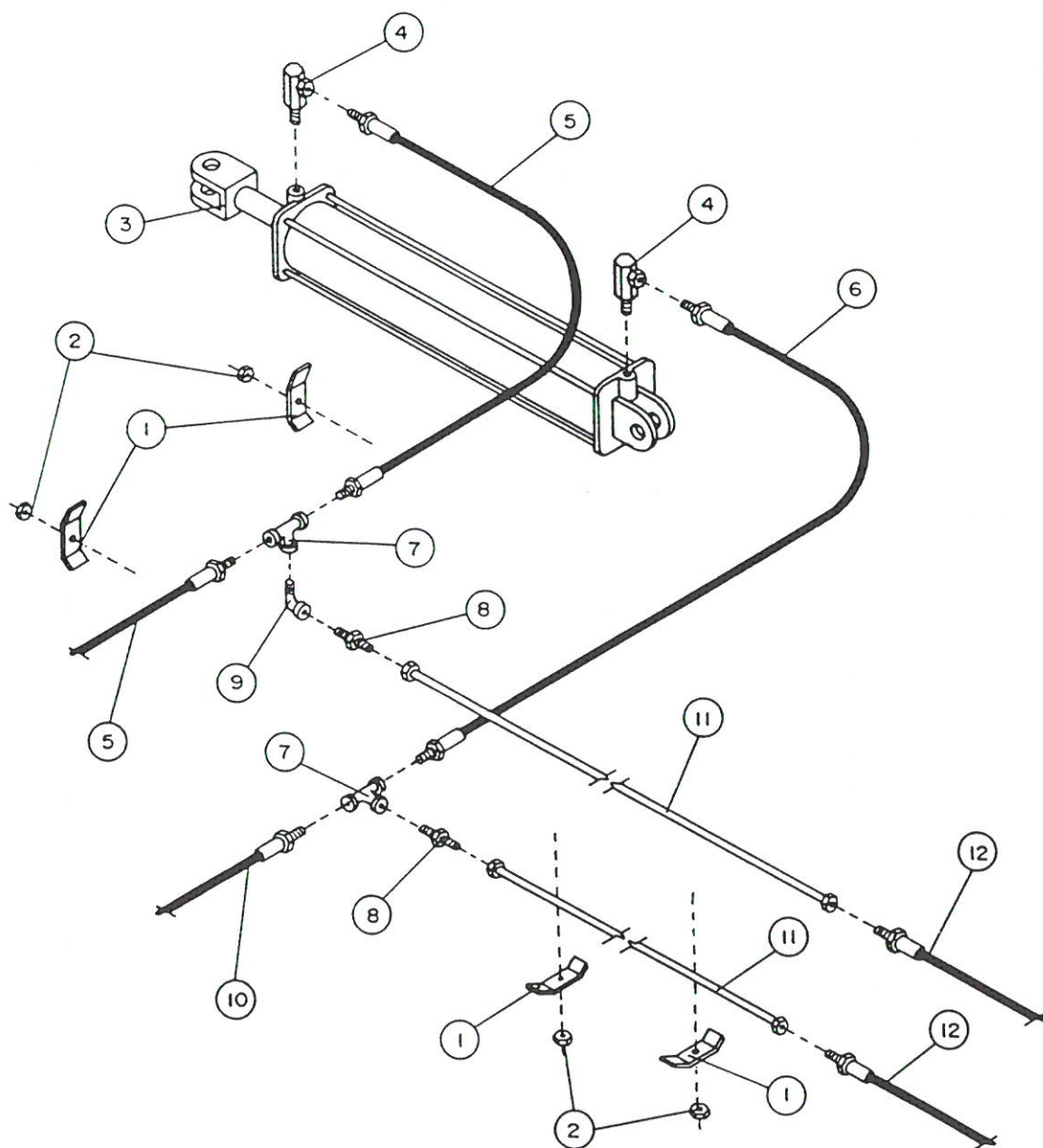
- A. INSTALL CYLINDERS #1, PORT HOLES INWARD, ROD END TO SWIVEL BRACKETS.
- B. INSTALL STREET TEES #2 ON RIGHT HAND CYLINDER ONLY.
- C. INSTALL HOSES AS SHOWN BELOW, CHECKING PARTS LIST FOR RIGHT LENGTHS OF HOSES.
- D. SECURE HOSES TO A-FRAME HITCH WITH HOSE CLAMPS AND BY PASSING HOSES THRU HOLES PROVIDED IN CROSS PLATES.



ITEM	PART NUMBER	DESCRIPTION	Nº
1	90103	Cylinder 3 1/2" x 16"	2
2	90601	1/2" Street Tee M-F-F	2
3	90206	1/2" Hose 1/2" MB x 1/2" MC x 60"	1
4	90208	1/2" Hose 1/2" MB x 1/2" MB x 204"	1
5	90205	1/2" Hose 1/2" MB x 1/2" MC x 51"	1
6	90207	1/2" Hose 1/2" MB x 1/2" MB x 184"	1
7	10034	Hose Clamp	1
8	LN5C07P	Locknut 7/16"	

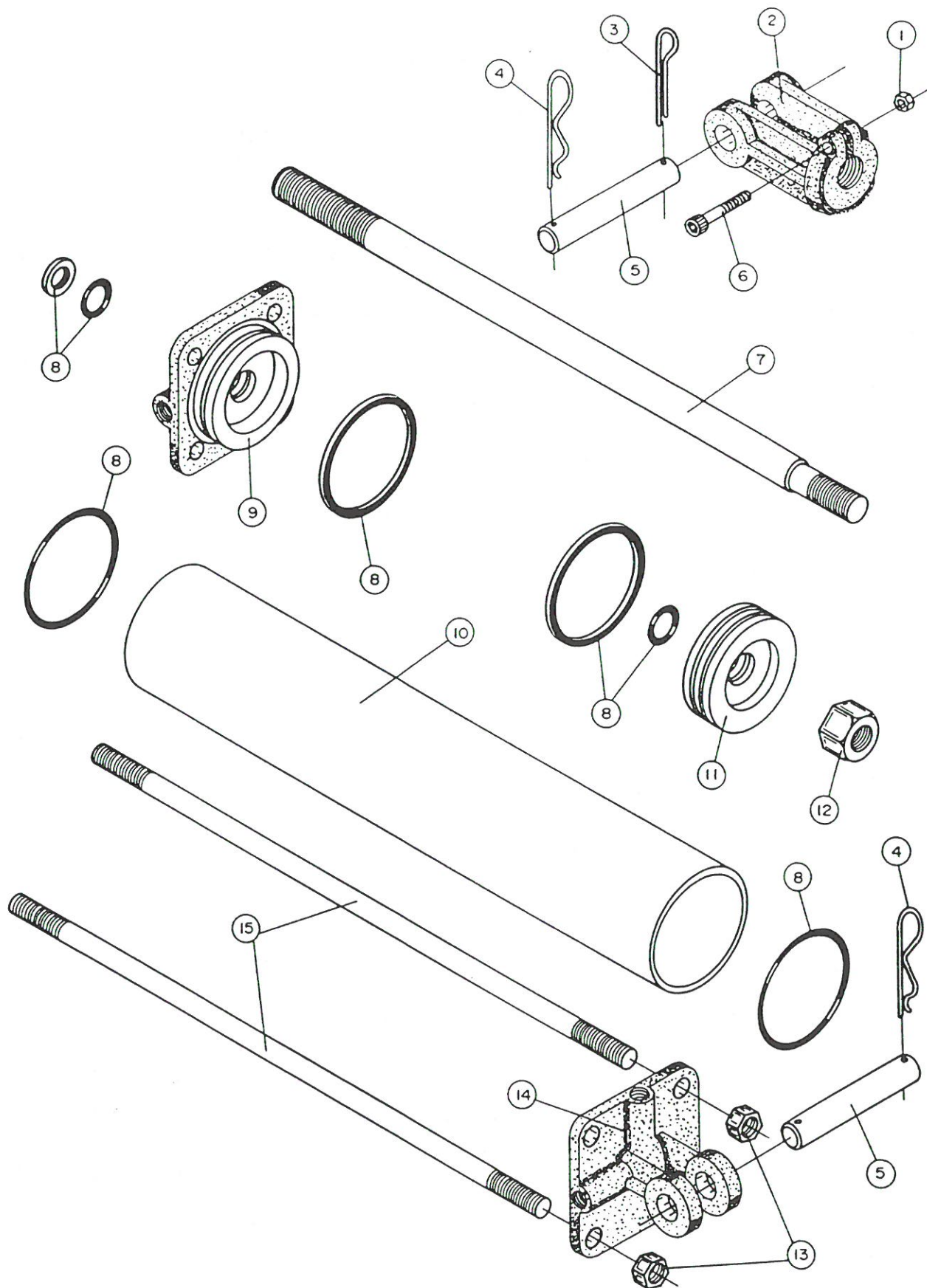
20 ft. A-Frame Hydraulic

- A. INSTALL CYLINDERS #3, PORT HOLES UPWARD, ROD END TO SWIVEL BRACKETS.
- B. INSTALL 90° SWIVEL ELBOWS #4 ON CYLINDER.
- C. INSTALL STREET ELBOWS #9, TEES #7, UNIONS #8 TO 1/2" HYDRAULIC LINES #11. THEN INSTALL HYDRAULIC LINES TO UNDERSIDE OF A-FRAME, SECURING WITH HOSE CLAMPS AND PASSING LINES THRU CROSS PLATES
- D. INSTALL HOSES AS SHOWN BELOW CHECKING PARTS LIST FOR RIGHT LENGTHS.



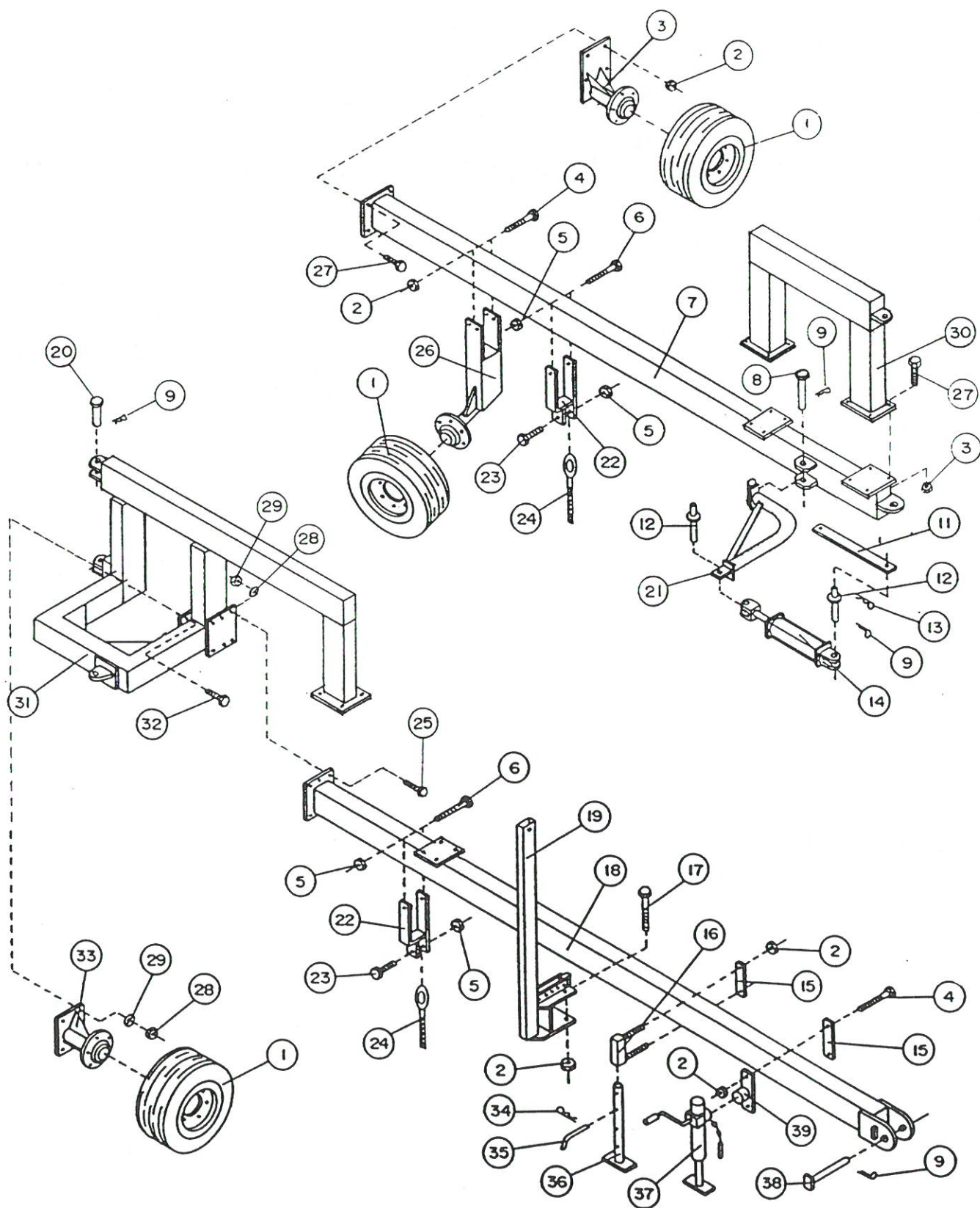
[illegible]

3 1/2" X 16" Cylinder



ITEM	PART NUMBER	DESCRIPTION	Nº
1	N5C06P	Nut 3/8"	1
2	90620	Cylinder Clevis 3 1/2" Cylinder	1
3	CP0324	Cotter Pin 3/16" x 1 1/2"	2
4	HP52	Hair Pin Clip 3 1/4"	2
5	91603	Pin Cylinder 1" x 3 3/4"	2
6	92016	Allan Head Bolt 3/8" x 2"	1
7	90640	Cylinder Shaft 3 1/2" x 16" Cylinder	1
8	90680	Seal Kit 3 1/2" Cylinder	1
9	90660	Rod End Cap 3 1/2" Cylinder	1
10	90740	Tube 3 1/2" x 16" Cylinder	1
11	90700	Piston 3 1/2" Cylinder	1
12	90720	Piston Nut 3 1/2" Cylinder	1
13	90800	Tie Rod Nuts 1/2"	8
14	90760	Anchor End Cap 3 1/2" Cylinder	1
15	90780	Tie Rods 3 1/2" x 16" Cylinder	4
	90103	Cylinder Complete 3 1/2" x 16"	*
*As Required			

Split Wing



Split Wing Assembly

LAURIER

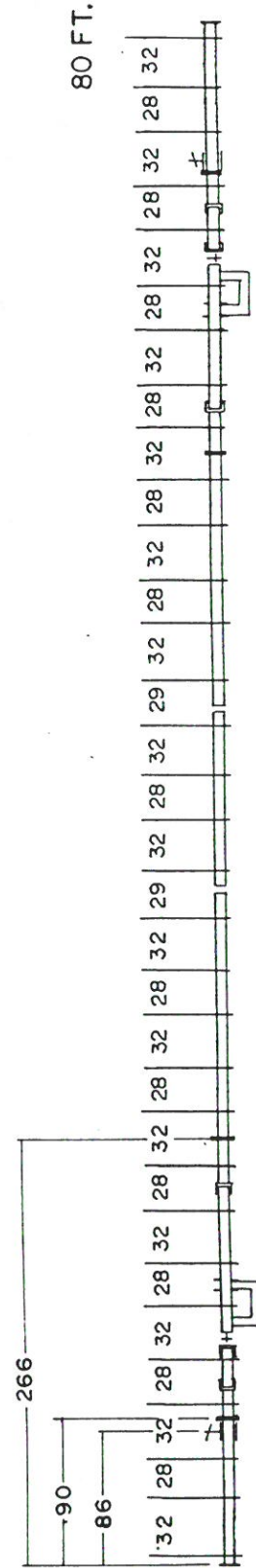
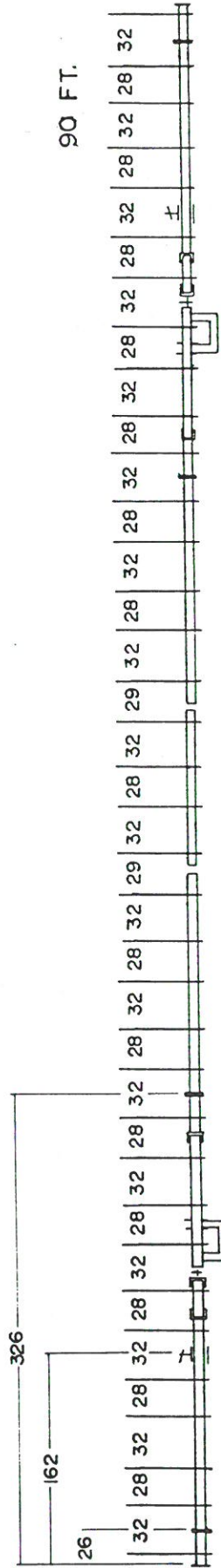
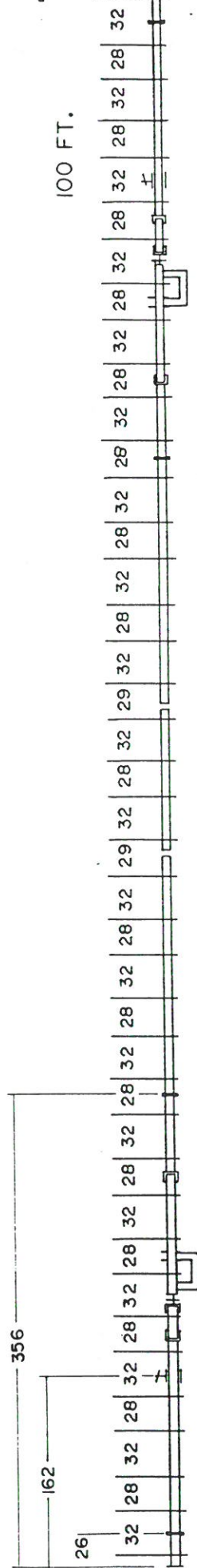
- A. Pin front split wing tube #18 to centre tube with knuckle pin #38 (1 1/4" x 7"). Pin stop outwards. Bolt split wing bridge #31 to front split wing tube with 5/8" x 1 3/4" bolt #25 and 1/2" x 1 1/2" bolts #27. Gusset outwards. Install hub #33 with tires.
- B. Bolt split wing bridge #30 to rear split wing tube #7 with 1/2" x 1 1/2" bolts #27. Pin rear wing tube #7 to split wing bridge with pins #20 (1" x 5 1/2"). Pin stop upwards. With 1/2" x 1 1/2" bolts #27 bolt end wheel #3 to rear wing tube. Gussets outwards. Install wheel.
- C. Pin split wing locking gusset #21 to rear wing tube with pin #8. Pin cylinder #14 ports down. Rod end to locking gusset, other end pin #20 to split wing bridging #31. Pin split wing cylinder lock #11 in place.
- D. Bolt either standard jack #36 or sidewind jack #37 to front wing tube.
- E. Loosely bolt transport wheels #26 with 1/2" x 6" bolts #4. Cable bracket #22 with 3/4" x 6 1/2" bolts #6 to rear wing tube.
- F. For proper spacing of lift arms, see the following pages.

NOTE:

Split wing part's on page 34.

Split Wing 5 ft. Section Spacing

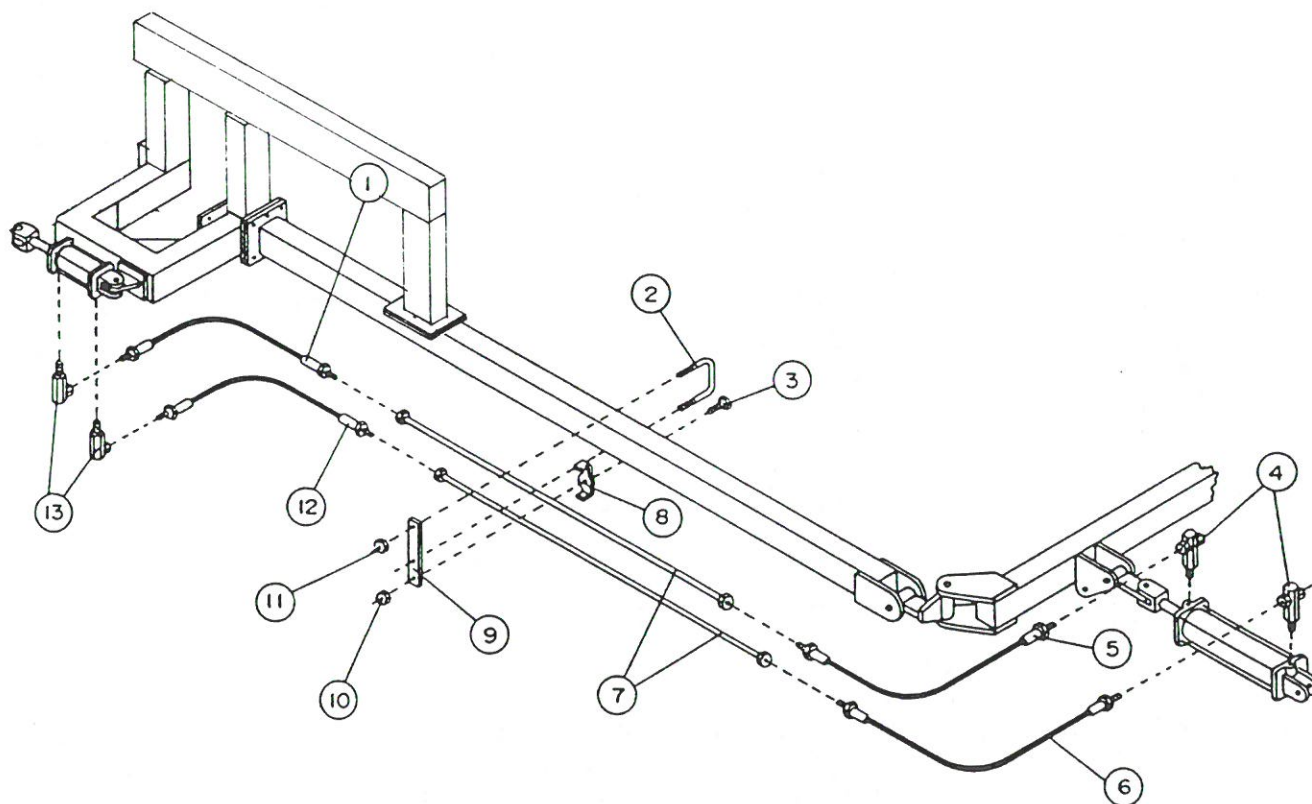
- A. Referring to charts, find size spacing necessary for lift arms.
- B. Assemble lift arms in working position.
- C. Measure and mark lift arms before securing. Start from centre of centre tube, measure 14 inches off centre for placement of first arms.
- D. Tighten transport wheel in position.



ITEM	PART NUMBER	DESCRIPTION	Nº
1	91025	9.5L x 6 ply c/w 6" Wheel Rim	*
	91026	9.5L x 6 ply c/w 8" Wheel Rim	*
	91027	11 L x 6 ply c/w 8" Wheel Rim	*
2	LN5C08P	Locknut 1/2"	*
3	20038	End Wheel c/w 611 Hub	2
4	B5C0896P	Bolt 1/2" x 6"	4
5	N5C12P	Nut 3/4"	8
6	B5C12104P	Bolt 3/4" x 6 1/2"	4
7	20209	Rear Left Split Wing Tube 12'7" for 80'	1
	20210	Rear Right Split Wing Tube 12'7" for 80'	1
	20211	Rear Left Split Wing Tube 17'7" 90 & 100'	1
	20212	Rear Right Split Wing Tube 17'7" 90 & 100'	1
8	10014	Pin Cylinder Swivel	2
9	CP0440	Cotter Pin 1/4" x 2 1/2"	10
10			
11	20076	Split Wing Cylinder Lock	2
12	20077	Pin Split Wing Cylinder	2
13	HP52	Hair Pin 3 1/4"	4
14	90104	Cylinder 2" x 8"	2
15	20045	Backing Plate	2
16	20048	Jack Bracket	2
17	B5C08112P	Bolt 1/2" x 7"	*
18	20207	Front Split Wing Tube 18'7" for 80 & 90'	2
	20208	Front Split Wing Tube 23'7" for 100'	2
19	20041	Lift Arm	*
20	20214	Split Wing Locking Arm Pin	4
21	20204	Split Wing Locking Bracket	2
22	20040	Cable Bracket	4
23	B5C1232P	Bolt 3/4" x 2"	4
24	91832	57 ft. Cable for 80'	2
	91833	66 ft. Cable for 90'	2
	91834	71 ft. Cable for 100'	2
25	B5C1028P	Bolt 5/8" x 1 3/4"	10
26	20075	Left Split Wing Trans Wheel c/w 611 Hub	1
	20091	Right Split Wing Trans Wheel c/w 611 Hub	1
27	B5C0824P	Bolt 1/2" x 1 1/2"	8
28	W10P	Lockwasher 5/8"	18
29	N5C10P	Nuts 5/8"	18
30	20203	Split Wing Bridge	2
31	20201	Left Split Wing Bridge	1
	20202	Right Split Wing Bridge	1
32	B5C1032P	Bolt 5/8" x 2"	8
33	20206	End Wheel c/w 611 Hubs	2
34	HP24	Hair Pin Clip 1 1/2"	2
35	20049	Pin Jack	2
36	20047	Jack Pipe	2
37	92022	Stabilizer Jack (optional)	2
38	20051	Pin Knuckle 1 1/4" x 7"	2
39	20046	Jack Plate c/w Stub (optional)	2

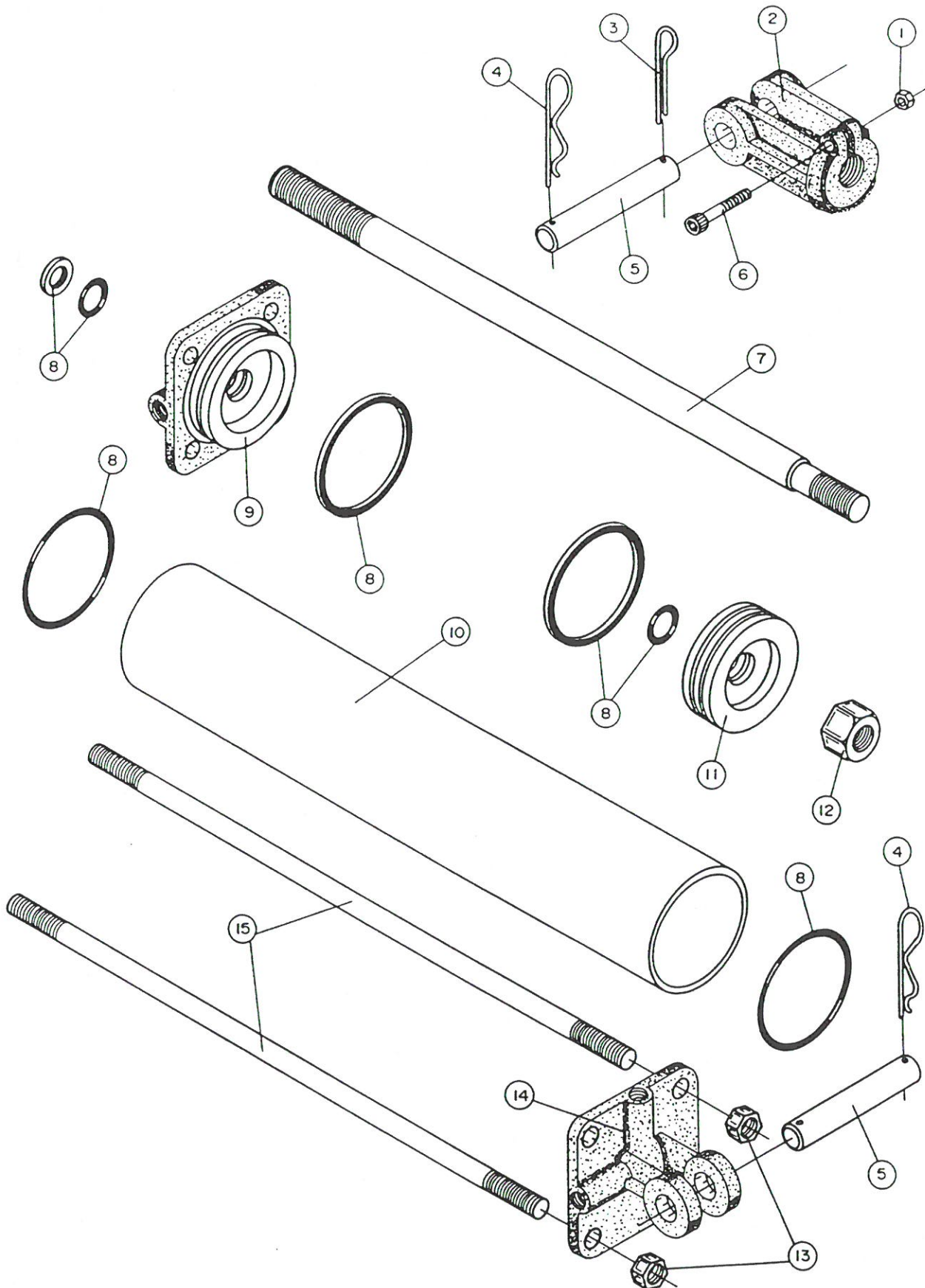
Split Wing Hydraulics

- A. ON 3 1/2" x 16" CYLINDER CHANGE 90° SWIVEL ELBOWS TO 90° SWIVEL TEES #4.
- B. WITH 2" x 8" CYLINDER, PORTS DOWNWARD, INSTALL 90° SWIVEL ELBOWS #13 IN PORTS.
- C. SECURE HYDRAULIC LINES #7 TO SIDE OF FRONT WING TUBE.
- D. INSTALL HOSES AS SHOWN BELOW CHECKING PARTS LIST FOR RIGHT LENGTHS.



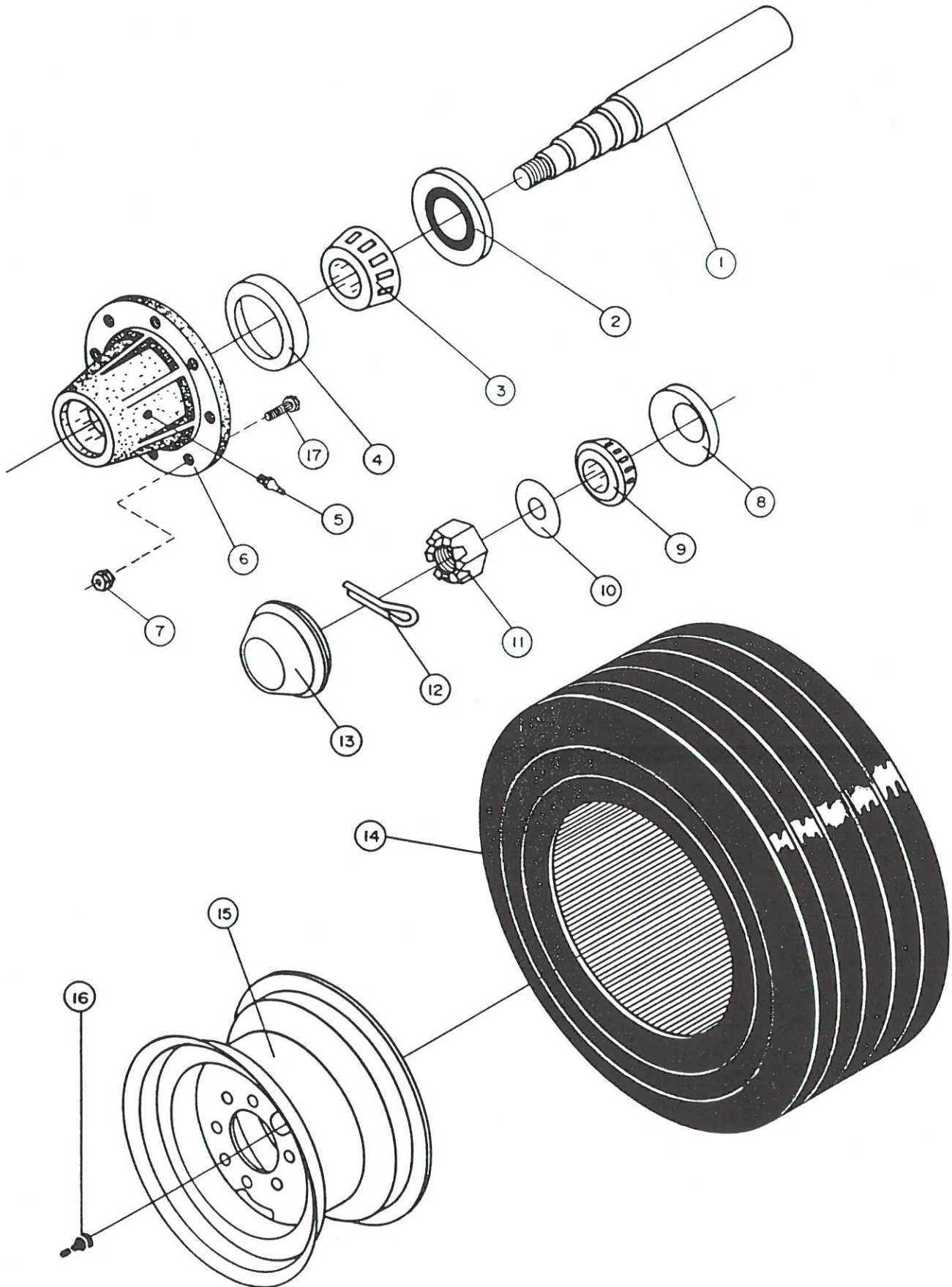
ITEM	PART NUMBER	DESCRIPTION	Nº
1	90237	3/8" Hose 3/8" MB x 1/2" MJ x 44"	2
2	UB069684	U-Bolt 3/8" x 6" x 5 1/4"	6
3	B5C0724P	Bolt 7/16" x 1 1/2"	6
4	90602	Tee Swivel 1/2" M-F-F	4
5	90210	3/8" Hose 1/2" MB x 1/2" MJ x 60"	2
6	90236	3/8" Hose 1/2" MB x 1/2" MJ x 82"	2
7	90416	1/2" x 132" Hydraulic Line for 100 ft.	8
	90417	1/2" x 204" Hydraulic Line for 80 & 90 ft.	4
8	92001	Fabricated Washer	6
9	20086	Split Wing Hose Holder	6
10	LN5C07P	Locknut 7/16"	6
11	LN5C06P	Locknut 3/8"	12
12	90238	3/8" Hose 3/8" MB x 1/2" MJ x 34"	2
13	90503	90° Swivel Elbow 3/8"	4

2" X 8" Cylinder



ITEM	PART NUMBER	DESCRIPTION	Nº
1	N5C06P	Nut 3/8"	1
2	90621	Cylinder Clevis 2" Cylinder	1
3	CP0324	Cotter Pin 3/16" x 1 1/2"	2
4	HP52	Hair Pin CLip 3 1/4"	2
5	91603	Pin Cylinder 1" x 3 3/4"	2
6	92016	Allan Head Bolt 3/8" x 2"	1
7	90641	Cylinder Shaft 2" x 8" Cylinder	1
8	90681	Seal Kit 2" Cylinder	1
9	90661	Rod End Cap 2" Cylinder	1
10	90741	Tube 2" x 8" Cylinder	1
11	90701	Piston 2" Cylinder	1
12	90721	Piston Nut 2" Cylinder	1
13	90801	Tie Rod Nuts 3/8"	8
14	90761	Anchor End Cap 2" Cylinder	1
15	90781	Tie Rods 2" x 8" Cylinder	4
	90104	Cylinder Complete 2" x 8"	*
*As Required			

812 Hub and Spindle



ITEM	PART NUMBER	DESCRIPTION	Nº
1	91254	812 Spindle 2 1/2" x 18"	1
2	91092	812 Seal SE17	1
3	91172	812 Inner Cone 3780	1
4	91152	812 Inner Race 3720	1
5	91700	Grease Nipple 1/8" NPT Straight	1
6	91072	812 Hub	1
7	91065	Wheel Nut 9/16"	8
8	91132	812 Outer Race LM 2720	1
9	91112	812 Outer Cone LM 2790	1
10	91190	Washer Hub WA17	1
11	91210	Castlelated Nut 1" NF	1
12	CPO324	Cotter Pin 3/16" x 1 1/2"	1
13	91232	812 Dustcap	1
14	91007	16.5L x 6 ply Tire 16.1"	1
15	91052	16.5 x 16.1 x 8 Wheel Rim	1
16	92005	Valve Stem	1
17	91066	Wheel Bolt	8

OPERATOR'S INSTRUCTIONS

HOOK UP:

SECURE HARROW BAR TO TRACTOR . CONNECT HYDRAULIC HOSES, OPERATE HYDRAULICS. WHILE PERFORMING THIS OPERATION, ALL PERSONAL SHOULD STAY CLEAR FROM EQUIPMENT. PRESSURIZE CYLINDERS TO THE FULLY CLOSED, THEN REMOVE CYLINDER LOCK PLATES.

NOTE: THE TRACTOR RESERVOIR MAY REQUIRE ADDITIONAL OIL AFTER CYLINDERS ARE PRESSURIZED.

WORKING POSITION:

TO SET HARROW BAR IN WORKING POSITION, UNBOLT CYLINDER LOCKS, ONLY IF CYLINDERS ARE PRESSURIZED. BACK UP HARROW BAR UNTIL CENTRE TUBE AND WINGS ARE IN STRAIGHT LINE. LOWER HARROWS AND ATTACH CABLES TO HITCH, IF YOU DON'T HAVE AUTOFOLD OPTION.

TRANSPORT POSITION:

TO SET HARROW BAR IN TRANSPORT POSITION. PROCEED TO LIFT HARROWS UNTIL LIFT ARMS AND HARROWS ARE IN VERTICAL POSITION. THE SHORT CABLE SHOULD BE DRAWN TIGHT WITH THE AUTO FOLD LOCK PLATE IN THE OPEN POSITION. DRIVE FORWARD UNTIL WINGS ARE FOLDED BACK. INSTALL CYLINDER LOCKS.

DISCONNECT UNIT:

TO UNHOOK HARROW BAR FROM TRACTOR. FIRST LOWER JACKS ON WING TUBES, HAVE THEM SET TO TAKE PRESSURE OFF THE TRACTOR HITCH. DISCONNECT HYDRAULIC HOSES AND REMOVE DRAW BAR PIN.

LUBRICATION:

GREASE MACHINE EVERY 30 HOURS OF USE. CHECK PERIODICALLY BOLTS KNUCKLE PINS AND COTTER PINS TO BE SURE THAT THEY ARE SECURE. REPACK WHEEL HUBS ANNUALLY. WHEEL BOLTS SHOULD BE TORQUED AT 90 FT.LBS 1/2", 110 FT.LBS 9/16".

CABLE LENGTH CHART

STANDARD CABLE LENGTH

	15' A-FRAME	20' A-FRAME
40 ft. -----	18' -----	21'
50 ft. -----	23'4" -----	23'4"
60 ft. -----	23'4" -----	23'4"
70 ft. -----	23'4" -----	28'4"
80 ft. -----	28'4" -----	28'4"

SPLIT WING CABLE LENGTH

80 ft. -----	57'
90 ft. -----	66'
100 ft. -----	71'

PARTS INDEX

PART #	PAGE	ITEM	DESCRIPTION
10014	34	8	Pin Cylinder Swivel
10015	8	1	Pin Hitch 1 1/4" x 7 1/2"
10022	2	13	Bolt on Draw Hitch
10022	4	19	Bolt on Draw Hitch
10034	26	7	Hose Clamp
10034	28	1	Hose Clamp
10051	14	6	Centre Tie
10060	2	22	Cable Bracket Pin
10060	4	32	Cable Bracket Pin
10106	14	19	Right Angle 5' Section (4 Bar)
10107	14	3	Left Angle 5' Section (4 Bar)
10108	16	20	Right Angle 5' Section (5 Bar)
10109	16	3	Left Angle 5' Section (5 Bar)
10110	14	17	Front Pipe 5' Section
10110	16	18	Front Pipe 5' Section
10111	14	9	2nd Pipe 5' Section (4 Bar)
10112	16	17	2nd Pipe 5' Section (5 Bar)
10113	14	10	3rd Pipe 5' Section
10113	16	16	3rd Pipe 5' Section
10114	14	12	4th Pipe 5' Section (4 Bar)
10115	16	10	4th Pipe 5' Section (5 Bar)
10116	16	12	5th Pipe 5' Section
10118	14	7	Adjustment Bar 5' Section (4 Bar)
10119	16	8	Adjustment Bar 5' Section (5 Bar)
10120	14	5	Cross Brace 5' Section
10120	16	5	Cross Brace 5' Section
10121	16	7	Centre Tie
10137	14	-	5' Section Complete (4 Bar)
10138	16	-	5' Section Complete (5 Bar)
20001	2	2	15' Frame Axle
20002	2	3	15' Left A-Frame Hitch
20003	2	23	15' Right A-Frame Hitch
20004	2	5	Cross Plate
20004	4	14	Cross Plate
20006	2	19	Bolt on Cable Bracket (optional)
20006	4	22	Bolt on Cable Bracket (optional)
20008	4	3	20' Frame Axle c/w 611 Spindle
20009	4	4	20' A-Frame Hitch Tube
20010	4	1	20' Right A-Frame Hitch Tube
20011	4	8	A-Frame Cross Member
20012	4	10	20' Left A-Frame Hitch
20013	4	9	20' Right A-Frame Hitch
20014	4	10	A-Frame Cross Member
20016	4	28	Cable Bracket Pulley Holder (opt)
20017	4	30	Cable Pulley Pin 1" x 3" (option)
20018	8	9	11 ft. Center Tube
20020	8	4	Pin Knuckle 1 1/4" x 8 3/4"
20023	8	8	Pin Cylinder Lock 1" x 7"
20024	8	15	Cylinder Lock
20028	12	8	19'6" Wing Tube for 50'
20035	12	8	29'6" Wing Tube for 70'
20037	12	8	34'6" Wing Tube for 80'
20038	12	29	End Wheel c/w 611 Hub
20038	34	3	End Wheel c/w 611 Hub
20039	12	27	Left Transport Wheel c/w 611 Hub
20040	12	26	Cable Bracket
20040	34	22	Cable Bracket
20041	12	7	Lift Arms
20041	34	19	Lift Arms
20042	12	22	Bridging Backing Plate c/w 4 hole
20044	12	21	Bridging Backing Plate c/w 2 hole
20045	2	16	Backing Plate (optional)
20045	4	23	Backing Plate (optional)
20045	12	11	Backing Plate (optional)
20045	34	15	Backing Plate (optional)
20046	2	17	Jack Plate c/w Stub (optional)
20046	4	25	Jack Plate c/w Stub (optional)
20046	12	13	Jack Plate c/w Stub (optional)
20046	34	39	Jack Plate c/w Stub (optional)
20047	12	16	Jack Pipe
20047	34	36	Jack Pipe
20048	12	19	Jack Bracket
20048	34	16	Jack Bracket
20049	12	17	Pin Jack
20049	34	35	Pin Jack

PART #	PAGE	ITEM	DESCRIPTION
20051	12	15	Knuckle Pin (1 1/4" x 7 1/4")
20051	34	38	Knuckle Pin (1 1/4" x 7 1/4")
20052	18	12	Pressure Spring Connector (optional)
20075	12	27	S W Left Trans Wheel c/w 611 Hub
20075	34	26	S W Left Trans Wheel c/w 611 Hub
20076	34	11	Split Wing Cylinder Lock
20077	34	12	Split Wing Cylinder Pin
20084	8	10	Cylinder Swivel
20086	36	9	Split Wing Hose Holder
20089	12	27	Right Trans Wheel c/w 611 Hub
20091	12	27	S W Left Trans Wheel c/w 611 Hub
20091	34	26	S W Left Trans Wheel c/w 611 Hub
20094	12	20	Bridging 70 & 80 ft.
20095	12	8	14'6" Wing Tube for 40 ft.
20096	12	5	Lift Arm Cable Stopper (optional)
20105	10	2	A-Frame Bracket Left
20106	10	2	A-Frame Bracket Right
20108	10	5	Backing Plate
20110	10	6	Shaft Collar
20112	2	6	Cross Plate
20112	4	15	Cross Plate
20112	10	8	Cross Plate
20112	10	9	Front Plate
20113	10	10	Cable Bracket
20114	10	10	24'0" Wing Tube for 50 ft.
20119	12	8	Auto Fold Left Arm
20123	10	1	Auto Fold Right Arm
20124	10	1	Auto Fold Right Arm
20127	10	7	Front Lock
20128	4	34	Straight Axle c/w 812 Hub(option)
20201	34	31	Left Split Wing Bridge
20202	34	31	Right Split Wing Bridge
20203	34	30	Split Wing Bridge
20204	34	21	Split Wing Locking Bracket
20206	34	33	End Wheel c/w 611 Hub
20207	34	18	Front S W Tube 18'7" for 80 &
20208	34	18	Front S W Tube 23'7" for 100'
20209	34	7	Rear Left S W Tube 12'7" for 80'
20210	34	7	Rear Right S W Tube 12'7" for 80'
20211	34	7	Rear Left S W Tube 17'7"-90&100'
20212	34	7	Rear Left S W Tube 17'7"-90&100'
20214	34	20	Split Wing Locking Arm Pin
30002	8	3	Left Knuckle
30003	8	3	Right Knuckle
90103	8	11	Cylinder 3 1/2" x 16" Complete
90103	26	1	Cylinder 3 1/2" x 16" Complete
90103	28	3	Cylinder 3 1/2" x 16" Complete
90103	30	-	Cylinder 3 1/2" x 16" Complete
90104	34	14	Cylinder 2" x 8" Complete
90104	38	-	Cylinder 2" x 8" Complete
90202	28	12	1/2" Hose 1/2" MB x 1/2" MJ x 84"
90205	26	5	1/2" Hose 1/2" MB x 1/2" MC x 51"
90206	26	3	1/2" Hose 1/2" MB x 1/2" MC x 60"
90207	26	6	1/2" Hose 1/2" MB x 1/2" MB x 184"
90208	26	4	1/2" Hose 1/2" MB x 1/2" MC x 60"
90210	36	5	3/8" Hose 1/2" MB x 1/2" MJ x 60"
90216	28	6	1/2" Hose 1/2" MB x 1/2" MB x 60"
90217	28	5	1/2" Hose 1/2" MB x 1/2" MB x 80"
90219	28	10	1/2" Hose 1/2" MB x 1/2" MB x 58"
90236	36	6	3/8" Hose 1/2" MB x 1/2" MJ x 82"
90237	36	1	3/8" Hose 3/8" MB x 1/2" MJ x 44"
90238	36	12	3/8" Hose 3/8" MB x 1/2" MJ x 34"
90400	28	11	1/2" Hydraulic Line x 132"
90400	36	7	1/2" Hydraulic Line x 132"
90417	36	7	1/2" Hydraulic Line x 204"
90501	20	4	1/2" 90° Swivel Elbow
90502	28	9	1/2" 90° Swivel Elbow
90503	36	13	1/2" 90° Swivel Elbow
90550	28	8	1/2" Flare Adaptor
90600	28	7	1/2" Street Tee F-F-F
90601	26	2	1/2" Street Tee F-F-F
90602	36	4	1/2" Swivel Tee M-F-F
90620	30	2	Cylinder Clevis 3 1/2" Cylin
90621	38	2	Cylinder Clevis 2" Cylinder
90640	30	7	Cylinder Shaft 3 1/2" x 16" Cyl.
90641	38	7	Cylinder Shaft 2" x 8" Cylinder

PART #	PAGE	ITEM	DESCRIPTION
9060	30	9	Rod End Cap 3 1/2" Cylinder
90661	38	9	Rod End Cap 2" Cylinder
90680	30	8	Seal Kit 3 1/2" Cylinder
90680	38	8	Seal Kit 2" Cylinder
90700	30	11	Piston 3 1/2" Cylinder
90701	38	11	Piston 2" Cylinder
90720	30	12	Piston Nut 3 1/2" Cylinder
90721	38	12	Piston Nut 2" Cylinder
90740	30	10	Tube 3 1/2" X 16" Cylinder
90741	38	10	Tube 2" Cylinder
90760	30	14	Anchor End Cap 3 1/2" Cylinder
90761	38	14	Anchor End Cap 2" Cylinder
90780	30	15	Tie Rods 3 1/2" x 16" Cylinder
90781	38	15	Tie Rods 2" x 8" Cylinder
90800	30	13	Tie Rod Nuts 1/2"
90800	38	13	Tie Rod Nuts 3/8"
91000	6	13	9.5L x 6 ply Tire
91001	6	13	11L x 6 ply Tire (optional)
91025	2	24	9.5L x 6 ply c/w 6" Wheel Rim
91025	4	33	9.5L x 6 ply c/w 6" Wheel Rim
91025	12	28	9.5L x 6 ply c/w 6" Wheel Rim
91025	34	1	9.5L x 6 ply c/w 6" Wheel Rim
91026	2	24	9.5L x 6 ply c/w 8" Wheel Rim
91026	4	33	9.5L x 6 ply c/w 8" Wheel Rim
91026	12	28	9.5L x 6 ply c/w 8" Wheel Rim
91026	34	1	9.5L x 6 ply c/w 8" Wheel Rim
91027	2	24	11L x 6 ply c/w 8" Wheel Rim
91027	4	33	11L x 6 ply c/w 8" Wheel Rim
91027	12	28	11L x 6 ply c/w 8" Wheel Rim
91027	34	1	11L x 6 ply c/w 8" Wheel Rim
91050	6	14	15" x 8" x 6" Wheel Rim (optional)
91051	6	14	15" x 6" x 6" Wheel Rim
91060	6	6	Wheel Bolt 1/2"
91070	6	5	611 Hub
91090	6	2	611 Seal
91110	6	8	611 Outer Cone LM67048
91130	6	7	611 Outer Race LM67010
91150	6	4	611 Inner Race LM29710
91170	6	3	611 Inner Race LM29749
91190	6	9	611 1" Washer
91210	6	10	611 1" Castled Nut
91230	6	12	611 Dustcap
91250	6	1	611 Spindle Main Axle & End Wheel
91252	6	1	611 Spindle Transport Wheel 2"x14"
91400	10	12	Auto Fold Spring
91402	18	16	Pressure Spring (optional)
91403	14	15	Tine 3/8" x 12"- 5' Section
91403	16	14	Tine 3/8" x 12"- 5' Section
91405	10	11	Auto Fold Tension Spring
91500	18	6	7 Link Chain 5/16"
91501	18	5	6 Link Chain 5/16"
91502	18	11	9 Link Chain 5/16"
91503	22	5	24 inch Chain 1/4"
91504	22	13	10 Link Chain 11/32"
91600	14	14	Pin Section 7/16" x 1 1/2"
91600	16	13	Pin Section 7/16" x 1 1/2"
91600	22	12	Pin Section 7/16" x 1 1/2"
91601	18	2	Pin Chain 1/2" x 1 5/8"
91603	8	13	Pin Cylinder 1" x 3 3/4"
91603	30	5	Pin Cylinder 1" x 3 3/4"
91603	38	5	Pin Cylinder 1" x 3 3/4"
91700	8	2	Grease Nipple 1/8" Straight
91804	12	23	18" Cable for 40 ft.
91805	12	23	23'4" Cable for 50', 60' & 80'
91806	12	23	28'4" Cable for 80'
91828	10	13	10'6" Auto Fold Cable (15'A-Frame)
91829	10	13	15'9" Auto Fold Cable (20'A-Frame)
91832	34	24	57 ft. Cable for 80'
91833	34	24	66 ft. Cable for 90'
91834	34	24	71 ft. Cable for 100'
92001	36	8	Fabricated Washer
92002	2	18	Sidewind Jack
92002	4	26	Sidewind Jack
92003	2	10	Serial Number Plate
92003	4	16	Serial Number Plate

PART #	PAGE	ITEM	DESCRIPTION
92004	4	27	Cable Pulley (optional)
92005	6	15	Valve Stem
92006	18	17	Pressure Spring Rod (optional)
92007	18	15	Pressure Spring (optional)
92008	14	16	Special Head Bolt Tines
92008	16	15	Special Head Bolt Tines
92009	22	1	60" Parallel Section (5" Tooth)
92011	22	2	Parallel Spikes Short
92012	22	14	Parallel Chain Connector
92016	30	6	Allen Head Bolt 3/8" x 2"
92016	38	6	Allen Head Bolt 3/8" x 2"
92018	14	11	5' Section Pipe Clamp
92018	16	9	5' Section Pipe Clamp
92022	12	14	Stabilizer Jack (optional)
92022	34	37	Stabilizer Jack (optional)
92047	22	2	Parallel Jack (optional)
92069	22	1	60" Parallel Section (7" tooth)
B5C0428P	10	21	Bolt 1/4" x 1 3/4"
B5C0628P	22	15	Bolt 3/8" x 1 3/4"
B5C0716P	14	2	Bolt 7/16" x 1"
B5C0716P	16	2	Bolt 7/16" x 1"
B5C0720P	14	1	Bolt 7/16" x 1 1/4"
B5C0720P	16	1	Bolt 7/16" x 1 1/4"
B5C0720P	18	10	Bolt 7/16" x 1 1/4"
B5C0720P	18	13	Bolt 7/16" x 1 1/4"
B5C0720P	22	18	Bolt 7/16" x 1 1/4"
B5C0724P	36	3	Bolt 7/16" x 1 1/2"
B5C0728P	14	4	Bolt 7/16" x 1 3/4"
B5C0728P	16	4	Bolt 7/16" x 1 3/4"
B5C0732P	14	18	Bolt 7/16" x 2"
B5C0732P	16	19	Bolt 7/16" x 2"
B5C0732P	22	6	Bolt 7/16" x 2"
B5C0736P	12	6	Bolt 7/16" x 2 1/4"
B5C0744P	18	18	Bolt 7/16" x 2 3/4"
B5C0824P	2	4	Bolt 1/2" x 1 1/2"
B5C0824P	4	12	Bolt 1/2" x 1 1/2"
B5C0824P	10	3	Bolt 1/2" x 1 1/2"
B5C0824P	12	1	Bolt 1/2" x 1 1/2"
B5C0824P	34	27	Bolt 1/2" x 1 1/2"
B5C0872C	4	2	Bolt 1/2" x 4 1/2"
B5C0896P	2	14	Bolt 1/2" x 6"
B5C0896P	4	20	Bolt 1/2" x 6"
B5C0896P	12	2	Bolt 1/2" x 6"
B5C0896P	34	4	Bolt 1/2" x 6"
B5C08112P	12	9	Bolt 1/2" x 7"
B5C08112P	34	17	Bolt 1/2" x 7"
B5C1028P	4	5	Bolt 5/8" x 1 3/4"
B5C1028P	10	14	Bolt 5/8" x 1 3/4"
B5C1028P	34	25	Bolt 5/8" x 1 3/4"
B5C1032P	2	1	Bolt 5/8" x 2"
B5C1032P	34	32	Bolt 5/8" x 2"
B5C1080P	2	20	Bolt 5/8" x 5"
B5C1080P	4	24	Bolt 5/8" x 5"
B5C1232P	10	18	Bolt 3/4" x 2"
B5C1232P	12	25	Bolt 3/4" x 2"
B5C1232P	34	32	Bolt 3/4" x 2"
B5C12104P	12	3	Bolt 3/4" x 6 1/2"
B5C12104P	34	6	Bolt 3/4" x 6 1/2"
B5C16120P	2	15	Bolt 1" x 7 1/2"
B5C16120P	4	21	Bolt 1" x 7 1/2"
B8C1232P	8	14	Bolt 3/4" x 2" Grade 8
CPO216	18	1	Cotter Pin 1/8" x 1"
CPO216	22	9	Cotter Pin 1/8" x 1"
CPO324	4	29	Cotter Pin 3/16" x 1 1/2"
CPO324	6	11	Cotter Pin 3/16" x 1 1/2"
CPO324	8	12	Cotter Pin 3/16" x 1 1/2"
CPO324	18	14	Cotter Pin 3/16" x 1 1/2"
CPO324	30	3	Cotter Pin 3/16" x 1 1/2"
CPO324	38	3	Cotter Pin 3/16" x 1 1/2"
CPO440	8	4	Cotter Pin 1/4" x 2 1/2"
CPO440	12	12	Cotter Pin 1/4" x 2 1/2"
CPO440	34	9	Cotter Pin 1/4" x 2 1/2"
EB0788P	10	23	Eye Bolt 7/16" x 5 1/2"
FW07P	18	9	Flatwasher 7/16"
FW07P	22	7	Flatwasher 7/16"

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PART	PAGE	ITEM	DESCRIPTION
FW08P	18	4	Flatwasher 1/2"
FW16P	8	7	Flatwasher 1"
HP24	16	11	Hair Pin Clip 1 1/2"
HP24	34	34	Hair Pin Clip 1 1/2"
HP24	12	18	Hair Pin Clip 1 1/2"
HP24	14	13	Hair Pin Clip 1 1/2"
HP52	2	21	Hair Pin Clip 3 1/4"
HP52	4	31	Hair Pin Clip 3 1/4"
HP52	8	6	Hair Pin Clip 3 1/4"
HP52	30	4	Hair Pin Clip 3 1/4"
HP52	34	13	Hair Pin Clip 3 1/4"
HP52	38	4	Hair Pin Clip 3 1/4"
LN5C04P	10	4	Locknut 1/4"
LN5C06P	36	11	Locknut 3/8"
LN5C07P	10	22	Locknut 7/16"
LN5C07P	12	4	Locknut 7/16"
LN5C07P	14	8	Locknut 7/16"
LN5C07P	16	6	Locknut 7/16"
LN5C07P	18	8	Locknut 7/16"
LN5C07P	22	8	Locknut 7/16"
LN5C07P	26	8	Locknut 7/16"
LN5C07P	28	2	Locknut 7/16"
LN5C07P	36	10	Locknut 7/16"
LN5C08P	2	9	Locknut 1/2"
LN5C08P	4	13	Locknut 1/2"
LN5C08P	10	17	Locknut 1/2"
LN5C08P	12	10	Locknut 1/2"
LN5C08P	18	3	Locknut 1/2"
LN5C08P	34	2	Locknut 1/2"
LN5C12P	8	16	Locknut 3/4"
N5C06P	22	10	Nut 3/8"
N5C06P	30	1	Nut 3/8"
N5C06P	38	1	Nut 3/8"
N5C10P	2	8	Nut 5/8"
N5C10P	4	7	Nut 5/8"
N5C10P	10	15	Nut 5/8"
N5C10P	22	4	Nut 5/8"
N5C10P	34	29	Nut 5/8"
N5C12P	10	19	Nut 3/4"
N5C12P	12	24	Nut 3/4"
N5C12P	34	5	Nut 3/4"
N5C16P	2	11	Nut 1"
N5C16P	4	17	Nut 1"
UB069684	36	2	U-Bolt 3/8" x 6" x 5 1/2"
UB0848112P	4	35	U-Bolt 1/2" x 3" x 7"
UB085112P	10	20	U-Bolt 1/2" x 3 1/8" x 7"
W06P	22	11	Lockwasher 1/2"
W10P	22	3	Lockwasher 5/8"
W10P	34	28	Lockwasher 5/8"
W10P	2	7	Lockwasher 5/8"
W10P	4	6	Lockwasher 5/8"
W10P	10	16	Lockwasher 5/8"
W12P	10	24	Lockwasher 3/4"
W16P	2	12	Lockwasher 1"
W16P	4	18	Lockwasher 1"
WLB5C0824P	18	7	Whiz Lock Bolt 1/2" x 1 1/2"