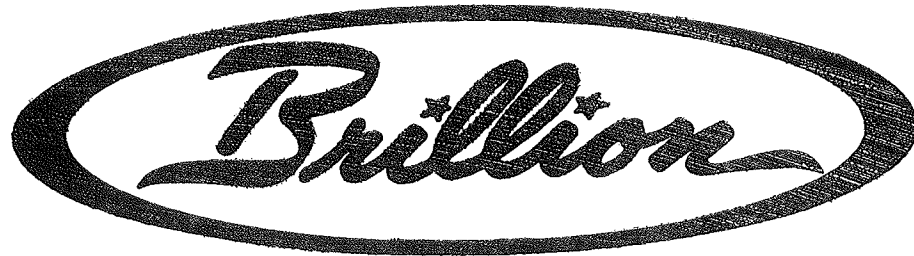
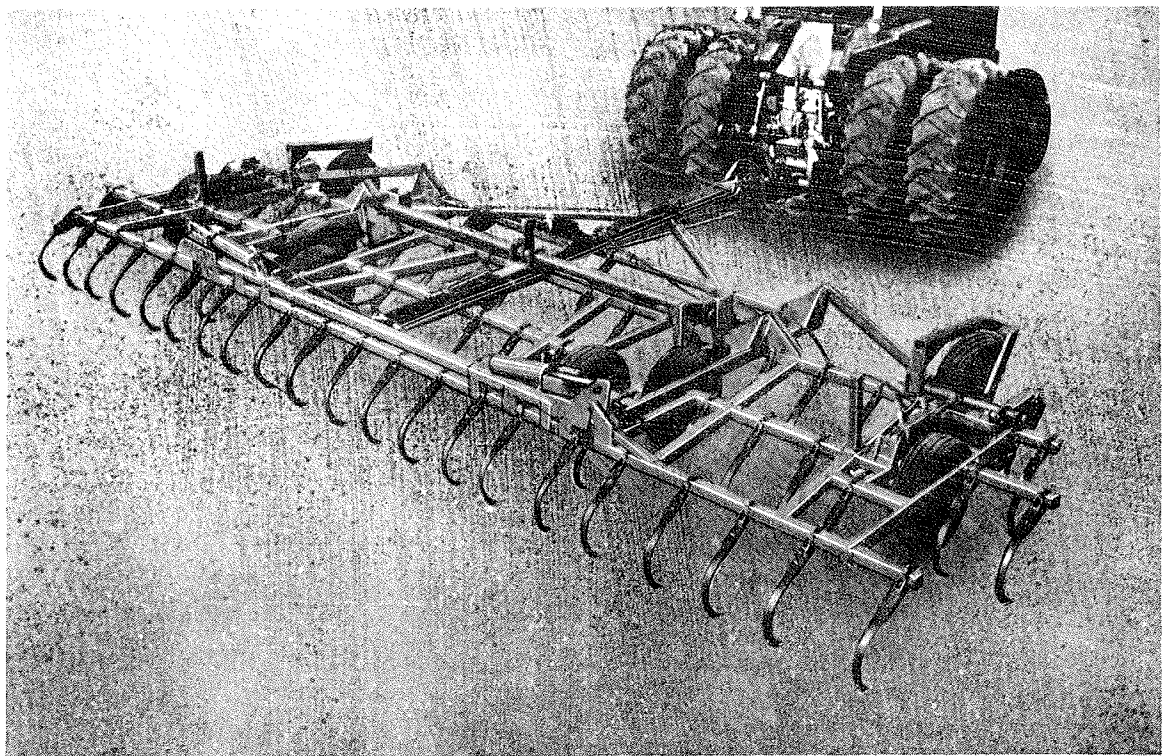


SETTING-UP AND OPERATING MANUAL



FCF FIELD CULTIVATOR



MODELS: FCF-2266 THRU FCF-3266
FCF-2339 THRU FCF-3239



BRILLION IRON WORKS
BRILLION, WISCONSIN 54110

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INTRODUCTION

Your Brillion Field Cultivator is built with the best materials and workmanship available. It has been designed to give years of trouble-free operation. Proper care and operation will insure that you receive the service and long life built into this machine.

Study this manual carefully before attempting to assemble or operate the machine. A special section, "Setting Up Instructions", is included.



This safety alert symbol is used to call your attention to instructions concerning personal safety. Federal law requires you to explain the safety and operating instructions furnished with this machine to each employee before they are allowed to operate the machine. These must be repeated to the employee at the beginning of each season. Be sure to observe and follow the instructions for the safety of anyone operating or near the machine.

Location Reference

Right hand, left hand, and forward designations are those related to the operator when sitting in the operating position.

Parts Ordering

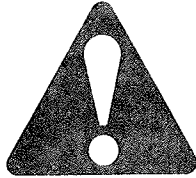
When ordering parts for this machine, include the complete model number and serial number. Refer to the name plate on the right rear hinge of the center section. Please record these numbers upon taking delivery of the unit.

Field Cultivator Model FCF-

Serial Number _____

Date Purchased _____

Be sure to read the warranty card which is shipped with the machine. Return the proper portion of the card for recording at the factory.



SAFETY SUGGESTIONS

Investigation has shown that nearly 1/3 of all farm accidents are caused by careless use of machinery. You can do your part in improving safety by observing the following suggestions. Insist that all people working with you or for you abide by them.

1. Do not stand between the tractor and implement when attaching or detaching implement unless both are not moving.
2. Do not fold or unfold the wings or operate the machine without first bleeding air from the hydraulic systems.
3. Do not allow anyone near the machine when folding or unfolding the wings.
4. Do not make adjustments or lubricate machine while it is in motion.
5. Do not allow anyone to ride on tractor or machine.
6. Relieve pressure in hydraulic lines before uncoupling hydraulic hoses from tractor. On most tractors this can be done by operating valves after engine is stopped.
7. Always use transport lock when transporting machine.
8. Lower machine to ground when not in use.
9. Block machine so it will not roll when disconnected from tractor.
10. Do not transport at speeds over 20 mph.
11. Avoid sudden stops or turns when transporting because weight of machine may cause operator to lose control of tractor. Use a tractor heavier than machine.
12. Use caution when towing behind articulated steering tractors; fast or sharp turns may cause the machine to slip sideways.
13. Securely block machine when working on or under it to prevent injury in case of hydraulic failure or inadvertent lowering by another person.

OPERATING INSTRUCTIONS

Tractor Preparation



Lock tractor drawbar in center position. Do not allow the drawbar to swing, especially during transport.

Field Cultivator Preparation

Hydraulic oil capacity of the field cultivator is approximately 5.22 gallons, divided as follows:

4-1/2" x 16" cylinders - - - - -	1.10 gallons each
4-1/2" x 8" cylinders - - - - -	0.55 gallons each
4-3/4" x 8" cylinder - - - - -	0.61 gallons
Hoses - - - - -	1.09 gallons
Tubes - - - - -	0.22 gallons

Cylinders which fold wings and those which operate wing wheels should be filled manually by removing the anchor end hose fitting and pouring in the required amount of oil.

Clean hose fittings before connecting to tractor. It is also necessary during initial operation to watch tractor oil level closely to avoid damage.



The first time the field cultivator is connected to a tractor, air must be bled from the hydraulic system. To bleed depth control circuit, partly raise and then lower wheels several times, then raise completely and hold hydraulic control on tractor to finish filling system. (Depth control cylinders are "rephasing". When they are fully extended or retracted, oil can by-pass the pistons and continue to the next cylinder, purging air from the system.)



Raise the wings partially, and then lower them again. It is important to do this 7 or 8 times before the wings are raised 90°. The wings depend upon the passage of oil through a flow restrictor to keep them from free falling. If the cylinder is not full of oil, the wing will drop and damage the machine. The two wings are not tied together, and one may raise before the other. Both wings should partially raise before either goes over 90° and folds flat.



If it becomes necessary to drain the oil from one or more cylinders, it is important to bleed the air out of the system before operating.

Adjustments

Position the hitch on the drawbar so that the machine is level (front-to-rear) in operating position.

An adjustable linkage is provided between the rockshaft and one walking beam assembly for side-to-side leveling of the center frame. Normally, this will be set to the same length as the fixed linkage on the opposite side.

Wing wheel cylinders are attached to eye bolts which are used to level wings with respect to center frame. Dimension from center of eye bolt to frame bracket should be 2-5/8" for operating at maximum working depths. Exceeding this may damage stabilizer wheel assembly. Operating at lesser depths may require a shorter dimension to level wings with center frame. Eye bolt must be positioned so clevis pins are parallel to prevent bending cylinder rod.

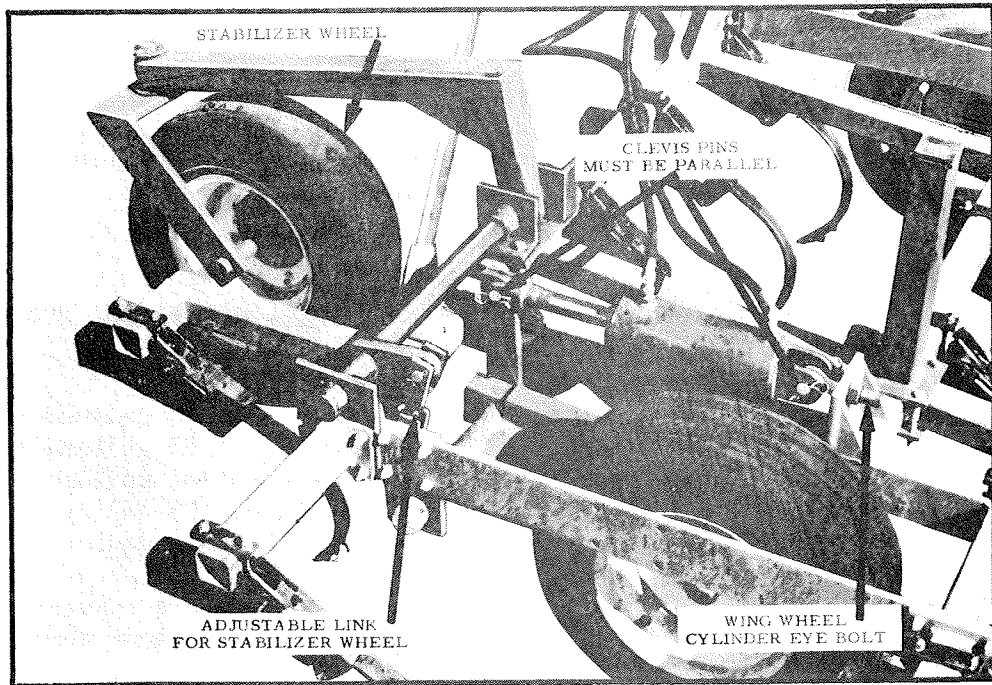


Figure 1

Stabilizer wheels are available on wide wing machines (over 27') for stabilization under more severe conditions of higher speeds or greater working depths. Wheel position is automatically maintained through a linkage to the wing wheel arm. Lengthening this link will increase the stabilizing effect. To reduce stress on related parts, do not set links any longer than necessary to reduce front-to-rear "rocking" of machine.

The master cylinder (located on the drawbar) controls operating depth of the entire machine. When the desired depth is obtained, slide the depth stop along the cylinder rod, depressing the plunger on top of the cylinder, and tighten the clamp bolt.

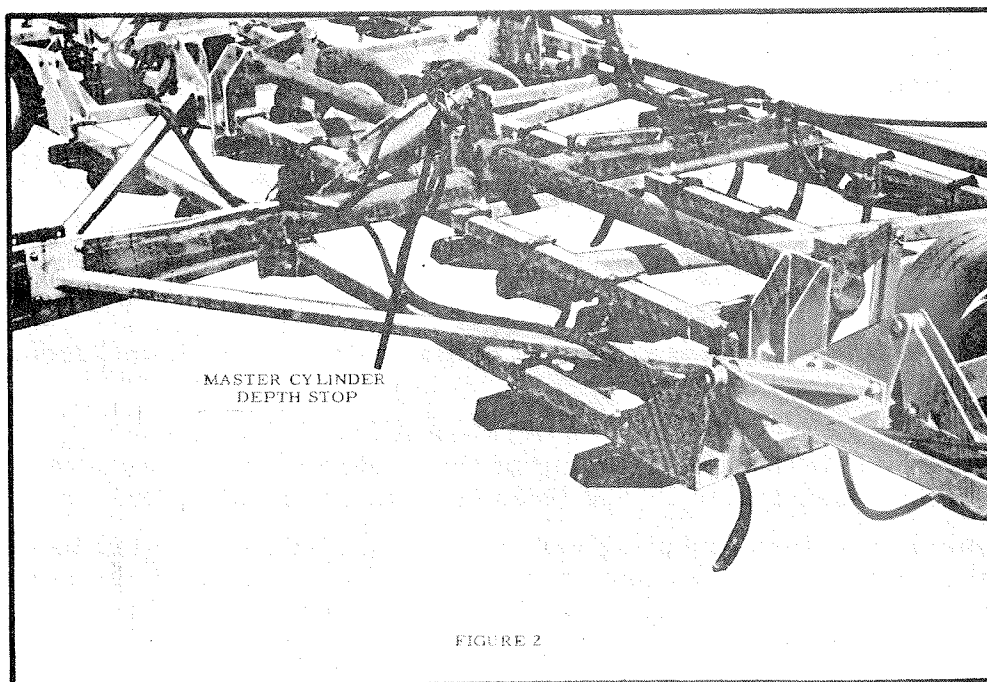


FIGURE 2

Rephasing

Occasionally, machine should be raised completely out of the ground and lift lever on tractor held for a few seconds. This will rephase depth control cylinders and insure uniform working depth of center section and wings.

Working Speed

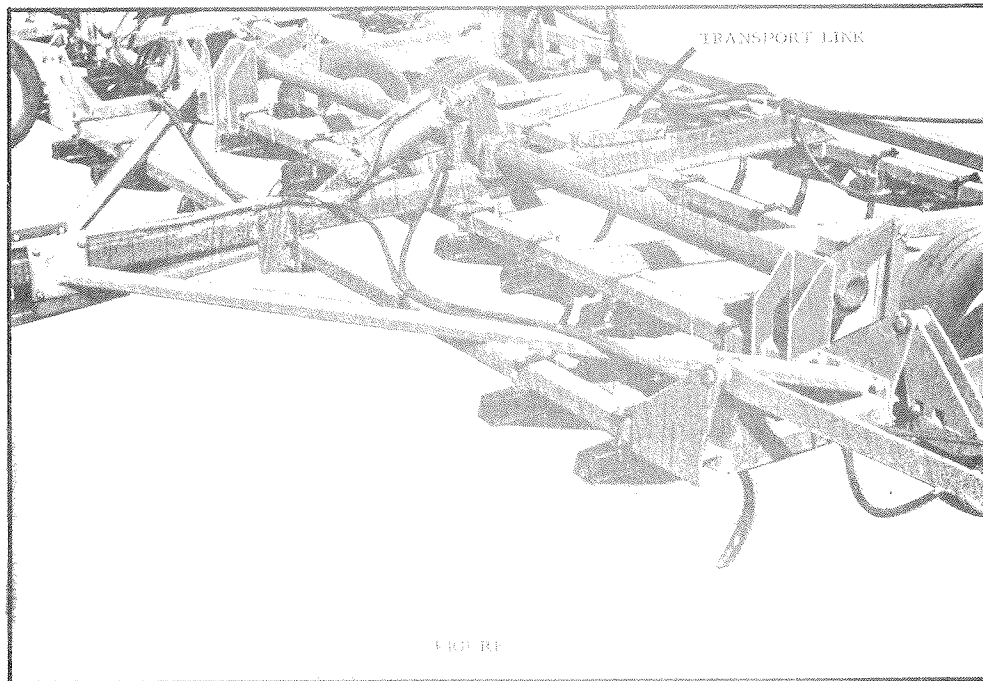
The machine operates best at a speed of 3-1/2 to 5 miles per hour. The best speed for any soil condition is that speed at which the teeth flex while the frame remains stable.

Sweeps

If the field cultivator is equipped with sweeps, the maximum working depth should be 2 - 3 inches on the first pass through the field and 4 - 5 inches the second time. It is especially important that the machine be level from front to back in working position.

Transport

To prepare machine for transport, raise it fully out of the ground; then secure transport link to cylinder arm on center of rockshaft. Fold wings.



Maximum road speed is 20 MPH under good conditions. Do not tow the machine at a speed where the operator loses control of his vehicle.

It is the responsibility of the owner/operator to comply with all applicable laws regarding slow moving vehicle signs, warning lights, and reflectors.

MAINTENANCE

Fasteners

After a few hours of use, check entire machine and tighten any loose nuts or bolts. Daily or periodic checks should be made thereafter.

Tires

Recommended tire inflation pressure is as follows:

9.5L x 15	6 Ply rating	-- 28 psi
6.70 x 15	4 Ply rating	-- 28 psi

Lubrication

Grease zerker fittings daily. Locations are:

Rockshaft bearings	- - - - -	8
Walking beam arms	- - - - -	2
Wing wheel arm pivot shafts	- - - - -	4
Stabilizer wheel pivot arm shafts (optional)	- -	6
Stabilizer wheel arm caster shaft (optional)	- -	2

Wheel bearings and walking beam pivots should be repacked annually.

When field cultivator is not used for some time, exposed cylinder rods should be cleaned and covered with a thick coat of grease. This will prevent corrosion which will damage seals.

Replacing Points

When points are turned or replaced, all of them on the machine should be of the same length to insure uniform operating depth and proper trailing of the field cultivator. It is normal for points working in the tractor tracks to wear faster because of soil compaction. Turn or replace points before the end of the tooth shank begins to wear.

SHIPPING BUNDLES

FCF Field Cultivators are shipped in separate assemblies according to the following lists:

6" Shank Spacing

	2266	2366	2466	2566	2666	2766	2866	2966	3066	3166	3266
4J-453 Center Frame	1	1	1	1	1	1	1	1	1	1	1
4J-391 Hitch Frame	1	1	1	1	1	1	1	1	1	1	1
4J-510 Drawbar	1	1	1	1	1	1	1	1	1	1	1
4J-530 Rockshaft	1	1	1	1	1	1	1	1	1	1	1
4J-317 Left Wing (Wide)	-	-	-	-	-	1	1	1	1	1	1
4J-316 Right Wing (Wide)	-	-	-	-	-	1	1	1	1	1	1
4J-319 Left Wing (Narrow)	1	1	1	1	1	-	-	-	-	-	-
4J-318 Right Wing (Nar.)	1	1	1	1	1	-	-	-	-	-	-
4J-480 Left Walking Beam Assembly	1	1	1	1	1	1	1	1	1	1	1
4J-566 Right Walking Beam Assembly	1	1	1	1	1	1	1	1	1	1	1
4J-369 Left Wing Axle Assembly	1	1	1	1	1	1	1	1	1	1	1
4J-370 Right Wing Axle Assembly	1	1	1	1	1	1	1	1	1	1	1
5J-188 Long Brace	-	-	-	-	-	2	2	2	2	2	2
5J-189 Short Brace	2	2	2	2	2	-	-	-	-	-	-
6D-312 Wheel	6	6	6	6	6	6	6	6	6	6	6
3J-815 Hydraulic Cylinder 4-1/2 x 8	1	1	1	1	1	1	1	1	1	1	1
3J-816 Hydraulic Cylinder 4-1/2 x 8	1	1	1	1	1	1	1	1	1	1	1
3J-818 Hydraulic Cylinder 4-1/2 x 16	2	2	2	2	2	2	2	2	2	2	2
4J-525 Tooth Assembly	45	47	49	51	53	55	57	59	61	63	65
4J-507 Hose Box Assem. (Wide Wings)	-	-	-	-	-	1	1	1	1	1	1
4J-508 Hose Box Assem. (Narrow Wings)	1	1	1	1	1	-	-	-	-	-	-
4J-509 Hydraulic Tube Bundle	1	1	1	1	1	1	1	1	1	1	1
4J-506 Basic Unit Hardware Box	1	1	1	1	1	1	1	1	1	1	1
4J-445 4" Extension Asy.	-	2	2	2	-	-	-	2	2	2	-
4J-446 10" Extension Asy.	-	-	2	2	2	-	-	-	2	2	2
4J-447 16" Extension Asy.	-	-	-	2	2	-	-	-	-	2	2
4J-448 22" Extension Asy.	-	-	-	-	2	-	-	-	-	-	2
4J-443 Front Outside Ext.	-	-	-	-	-	-	2	2	2	2	2
4J-444 Front Inside Ext.	2	2	2	2	2	-	-	-	-	-	-
4J-688 FCF Box Assembly	1	1	1	1	1	1	1	1	1	1	1
4J-689 FCF Box Assembly	1	1	1	1	1	1	1	1	1	1	1
5J-211 FCF Box Assembly	1	1	1	1	1	1	1	1	1	1	1
4J-691 FCF Box Assembly	1	1	1	1	1	1	1	1	1	1	1
2J-858 Hitch	1	1	1	1	1	1	1	1	1	1	1
3J-880 Jack	1	1	1	1	1	1	1	1	1	1	1
4J-817 Hydraulic Cylinder 4-3/4 x 8	1	1	1	1	1	1	1	1	1	1	1

9" Shank Spacing

	2339	2499	2639	2799	2939	3099	3239	
4J-453	Center Frame	1	1	1	1	1	1	
4J-391	Hitch Frame	1	1	1	1	1	1	
4J-510	Drawbar	1	1	1	1	1	1	
4J-530	Rockshaft	1	1	1	1	1	1	
4J-317	Left Wing (Wide)	-	-	-	1	1	1	
4J-316	Right Wing (Wide)	-	-	-	1	1	1	
4J-319	Left Wing (Narrow)	1	1	1	-	-	-	
4J-318	Right Wing (Narrow)	1	1	1	-	-	-	
4J-480	Left Walking Beam Assembly	1	1	1	1	1	1	
4J-566	Right Walking Beam Assembly	1	1	1	1	1	1	
4J-369	Left Wing Axle Assembly	1	1	1	1	1	1	
4J-370	Right Wing Axle Assembly	1	1	1	1	1	1	
5J-188	Long Brace	-	-	-	2	2	2	
5J-189	Short Brace	2	2	2	-	-	-	
6D-312	Wheel	6	6	6	6	6	6	
3J-815	Hydraulic Cylinder 4-1/2 x 8	1	1	1	1	1	1	
3J-816	Hydraulic Cylinder 4-1/2 x 8	1	1	1	1	1	1	
3J-817	Hydraulic Cylinder 4-3/4 x 8	1	1	1	1	1	1	
3J-818	Hydraulic Cylinder 4-1/2 x 16	2	2	2	2	2	2	
4J-525	Tooth Assembly	31	33	35	37	39	41	43
4J-507	Hose Box Assem. (wide wings)	-	-	-	1	1	1	1
4J-508	Hose Box Assem. (narrow wings)	1	1	1	-	-	-	-
4J-509	Hydraulic Tube Bundle	1	1	1	1	1	1	1
4J-506	Basic Unit Hardware Box	1	1	1	1	1	1	1
4J-446	10" Extension Assembly	-	2	2	-	-	2	2
4J-448	22" Extension Assembly	-	-	2	-	-	-	2
4J-443	Front Outside Extension	-	-	-	-	2	2	2
4J-444	Front Inside Extension	2	2	2	-	-	-	-
4J-688	FCF Box Assembly	1	1	1	1	1	1	1
4J-689	FCF Box Assembly	1	1	1	1	1	1	1
5J-211	FCF Box Assembly	1	1	1	1	1	1	1
4J-691	FCF Box Assembly	1	1	1	1	1	1	1
2J-858	Hitch	1	1	1	1	1	1	1
3J-880	Jack	1	1	1	1	1	1	1
5J-359	Extension Assembly	-	-	-	2	2	2	2

Points and sweeps are ordered and shipped as separate items.

Stabilizer Wheel Kit, 4J-798, is optional and shipped in the following assemblies:

5C-916	Wheel	2
4J-350	Left Pivot Arm	1
4J-351	Right Pivot Arm	1
4J-378	Wheel Arm	2
4J-408	Box Assembly	1

SETTING UP INSTRUCTIONS

1. Support the center frame so the 3" x 3" tubes clear the ground by at least 20". Be sure supports are stable and of adequate strength to carry machine weight as shown in specifications on page 26.
2. Attach hitch frame using eight 5/8" x 2" cap screws, lockwashers, and nuts.

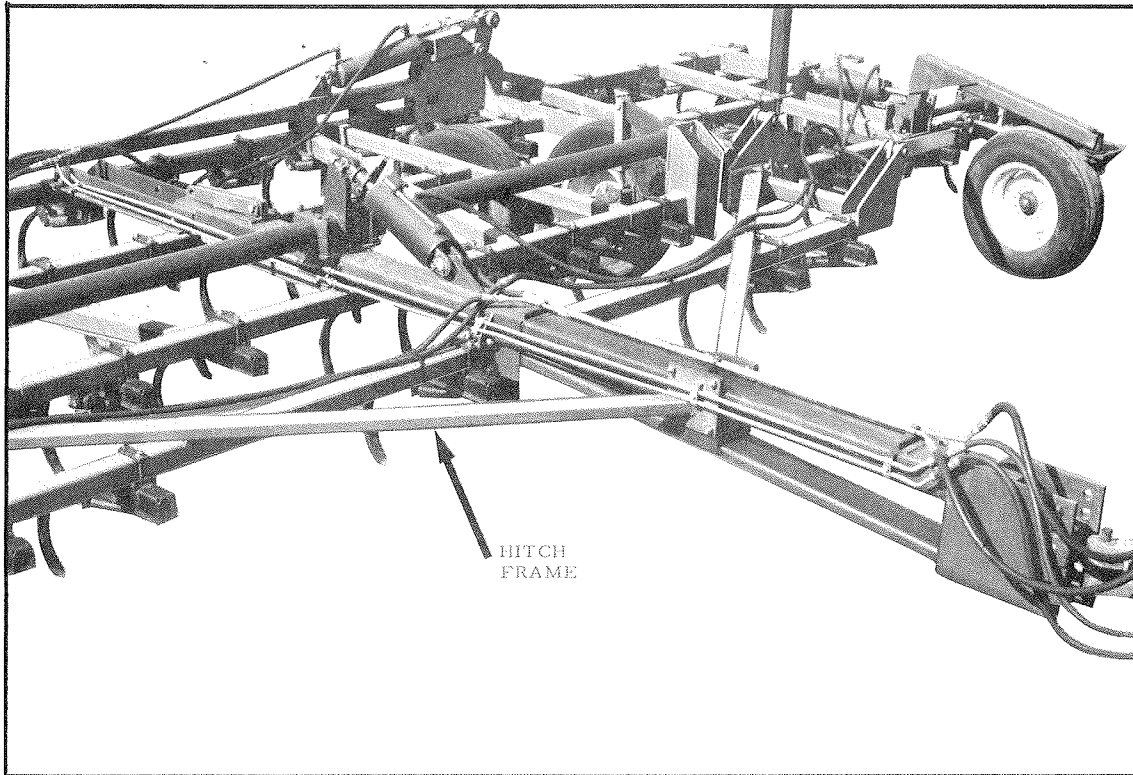


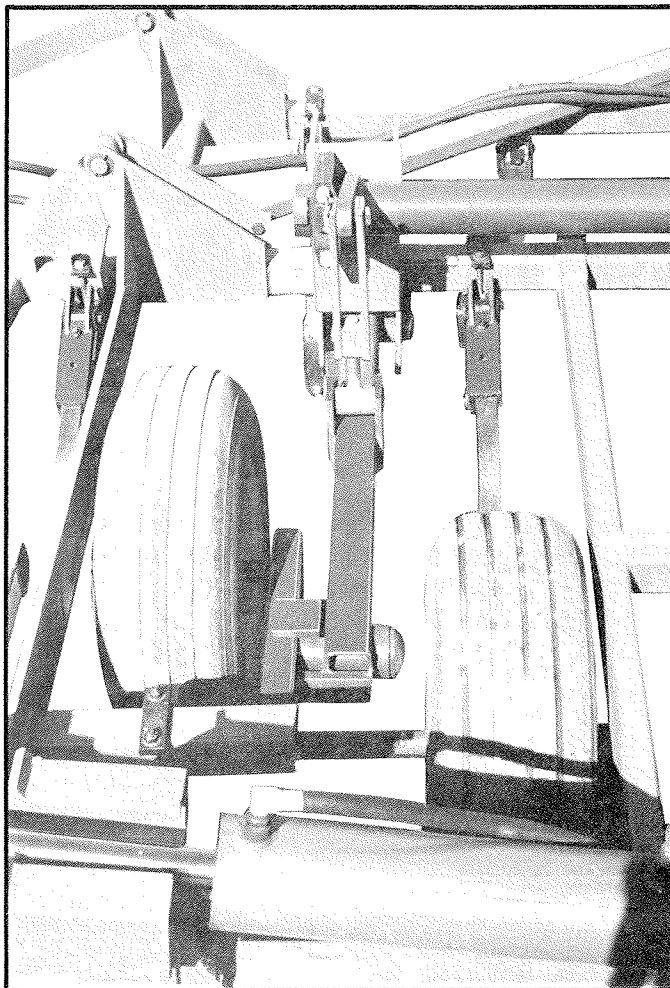
Figure 4

3. Install drawbar on center frame using six 5/8" x 2" cap screws. Drawbar attaches to hitch frame with two 5/8" x 4-1/2" deep U-bolts and eight 1/2" x 1-3/4" cap screws. Attach jack to drawbar with pin and chain. Attach hitch with 1-1/4" x 8-1/4" pin and lynch pin.



Figure 5

4. Attach walking beam assemblies and their wheels. Use 1-1/2" x 9-7/16" pins and secure with 3/8" x 3" roll pins. Note that walking beam is "outside" of wheel arm.



View From Rear Of Left
Walking Beam Assembly

Figure 6

5. Install rockshaft and bearings using 5/8" x 6-1/2" and 5/8" x 7" hex head machine bolts. Use 1/4" x 2" x 7" spacers as needed under outer bearings; two are provided for each end.

Connect rockshaft to walking beam assemblies. Use 4J-404 lift link on right and 4J-483 female yoke with 4J-491 eye bolt on left. Also used are two 1" x 3" clevis pins with 3/16" x 1-1/2" cotter pins, two 1-1/4" O.D. x 1" I.D. x 15/16" long spacers; and two 1" x 5-1/4" pins with 1/4" x 1-1/2" cotter pins. (Yoke and eye bolt should be adjusted to same length as rigid lift link.)

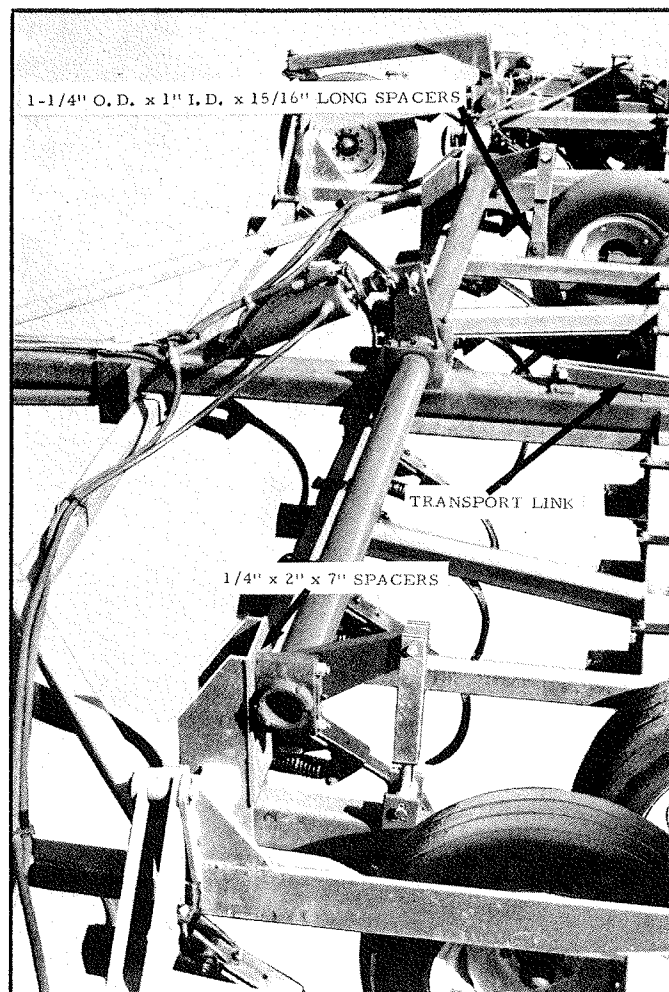


Figure 7

Install transport link. Use two 1" x 3" clevis pins, one 3/16" x 1-1/2" cotter pin, and one hairpin cotter.

6. Install wings. On each front hinge use a 1-1/4" x 5-1/8" pin, two 1-7/8" O.D. x 1-1/4" I.D. x #14 machinery bushings and two 1/4" x 2" roll pins. On each rear hinge use a 1-1/4" x 6-1/8" pin, two 1-7/8" O.D. x 1-1/4" I.D. x #14 machinery bushings, and two 1/4" x 2" roll pins.

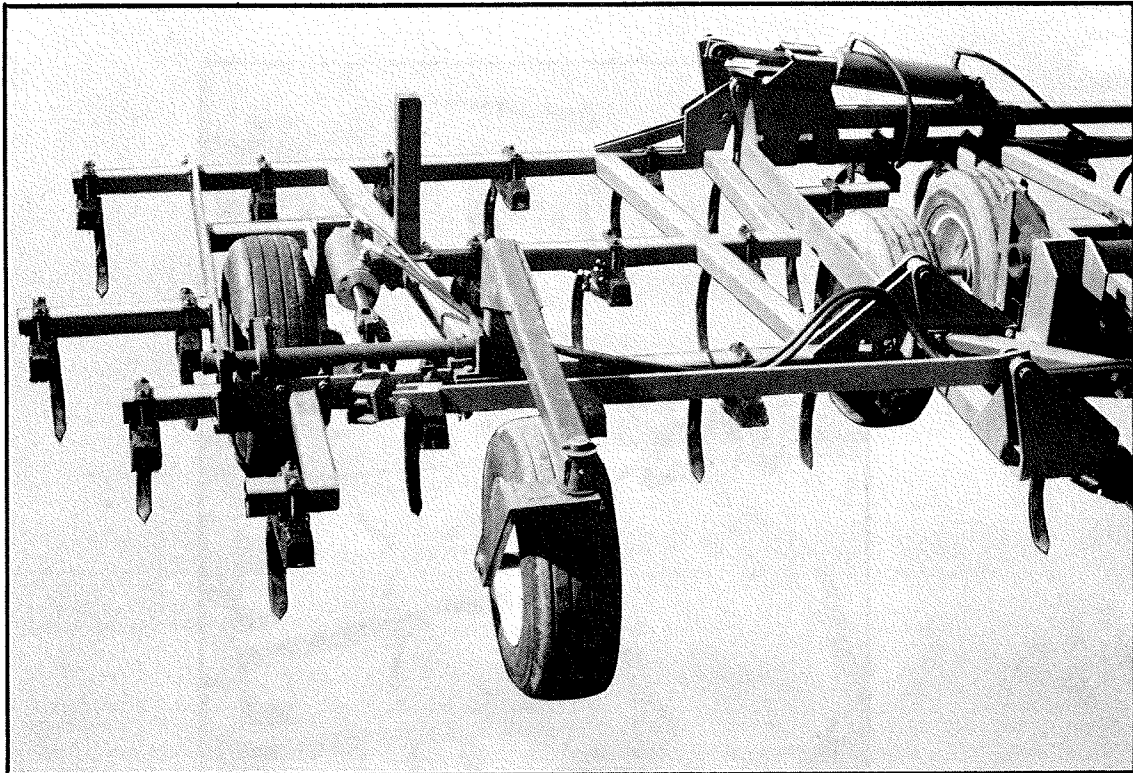


Figure 8

7. Attach wing axle assemblies and wheels. Note that wheel is on outside of wheel arm. Wheel arm pivot shaft fits between sleeve welded on wing and 4J-488 pivot beam mount which is fastened to inside of wing frame with four 1/2" x 2" capscrews, nuts and lockwashers.

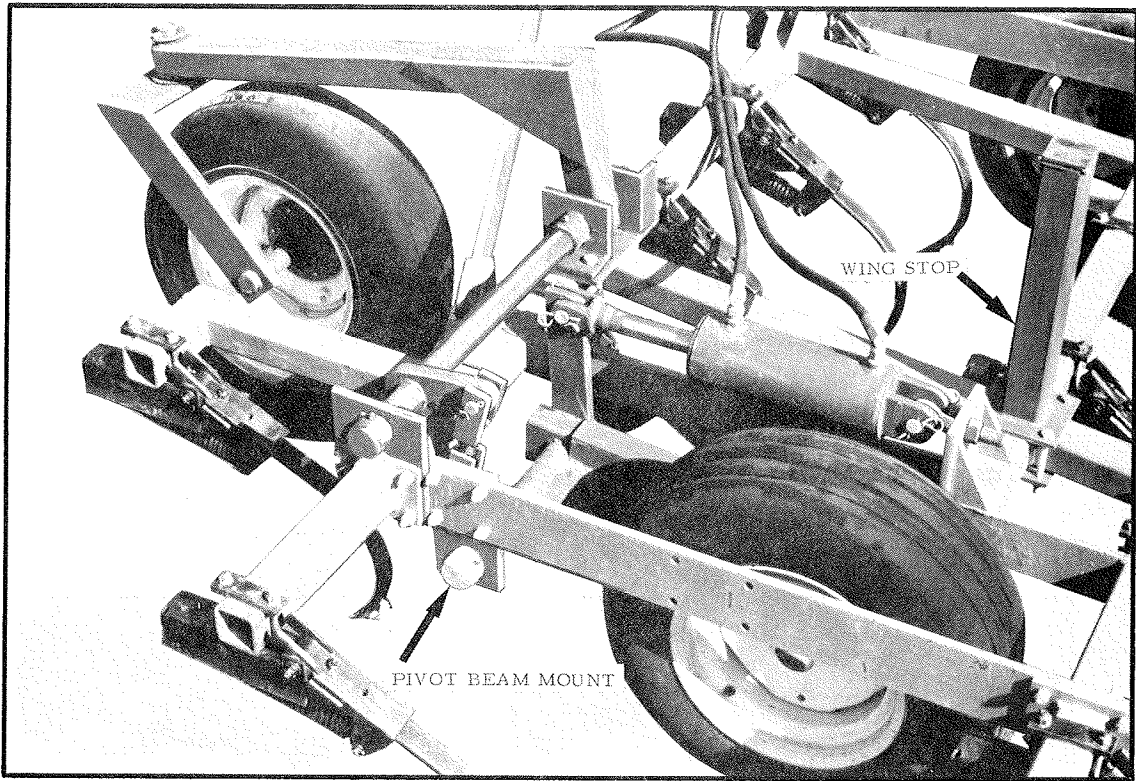


Figure 9

8. Install wing braces between drawbar frame and wings. Hardware on drawbar frame end is the same as on front hinge in step 6. On each wing end use 4J-440 forged eye bolt, two 1" nuts, 1" x 2-1/2" clevis pin, and a 3/16" x 1-1/2" cotter pin. Later machines have a stud welded on each wing brace and do not use eye bolts.

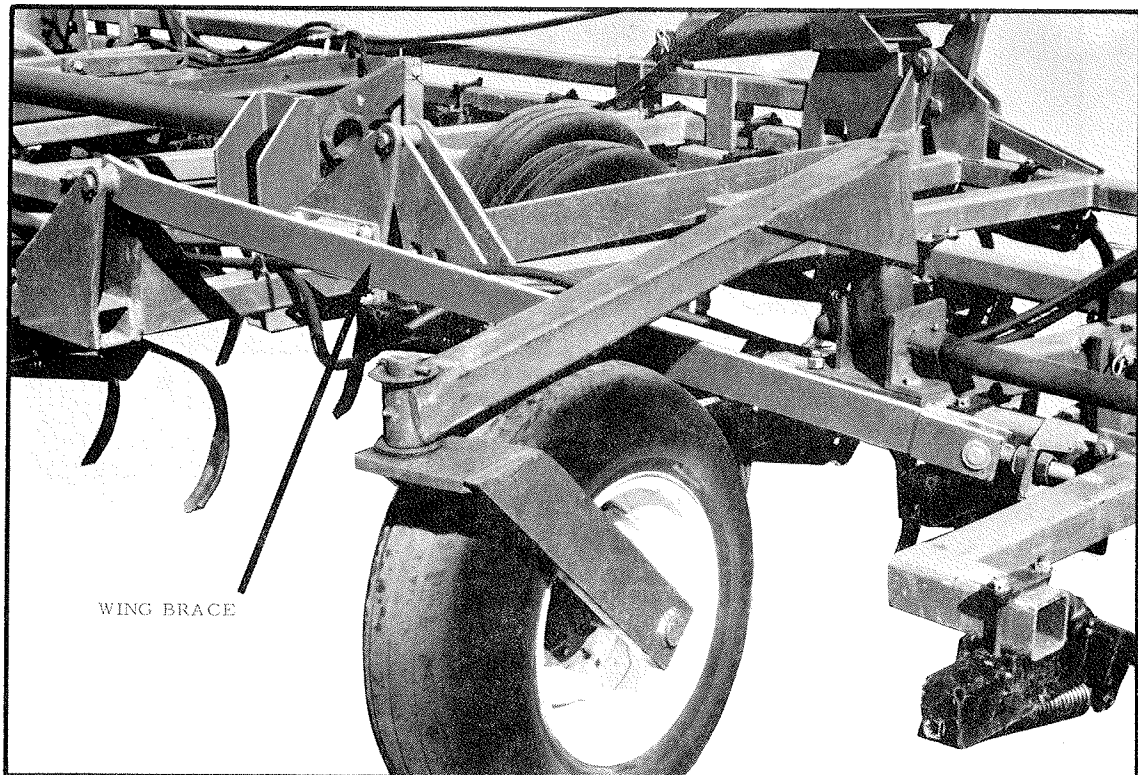


Figure 10

9. Optional forward stabilizer wheels are recommended for all machines over 30', when operated at speeds in excess of 5 MPH.
 - 9a. Install left and right pivot arms. Inside pivot mount is fastened to wing with 5/8" x 4-1/2" deep U-bolt and two 5/8" x 5-1/2" cap screws through 1/2" x 1-1/2" x 5-5/8" strap. Outside pivot mount is secured with 1/2" x 2-1/4" cap screws which also attach front extension assembly on machines so equipped.
 - 9b. Install stabilizer wheel arms on pivot arms. Use a 3" O.D. x 2" I.D. x #10 machinery bushing on top and bottom of pivot joint. Secure with a 3/8" x 3" roll pin.
 - 9c. Install stabilizer wheels.

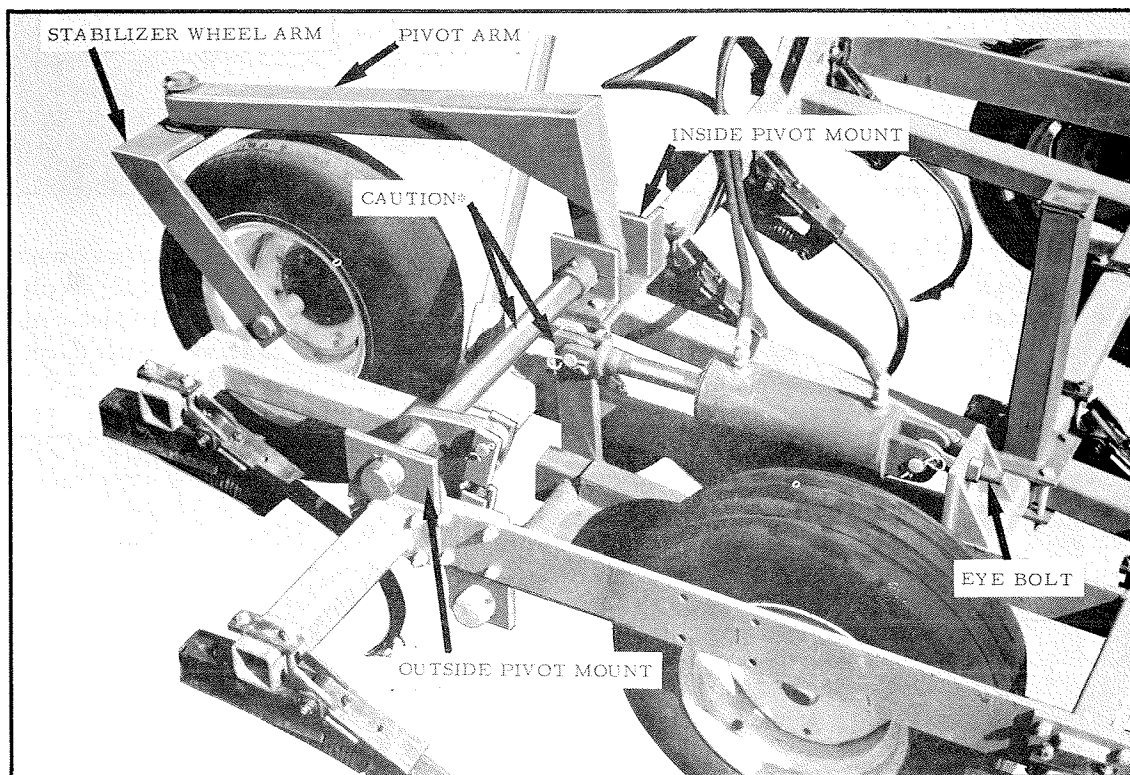


Figure 11

* Be sure eye bolt adjustment does not allow arm to shaft interference. Dimension from center of eye bolt to bracket should be 2-5/8" or less.

- 9d. Connect pivot arms to wing axles using 4J-413 female and 4J-416 male yokes. Use 1" x 2-1/2" and 1" x 3" clevis pins with 3/16" x 1-1/2" cotter pins.

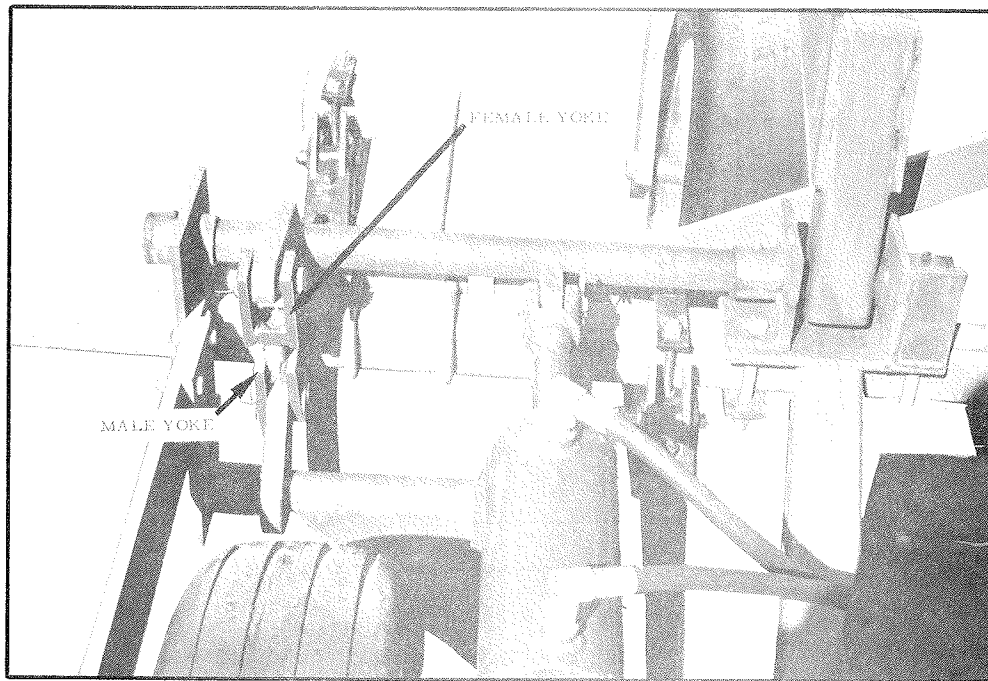


Figure 12

10. Install cylinders for depth control system. See hydraulic circuit diagram. Base ends of wing cylinders are joined to forged steel eye bolts as shown in Figure 11. Eye bolts must be positioned so that cylinder pins are parallel to prevent damage when cylinder is actuated.
11. Install wing lift links using 1-1/4" x 4" pins and 1/4" x 2" roll pins.

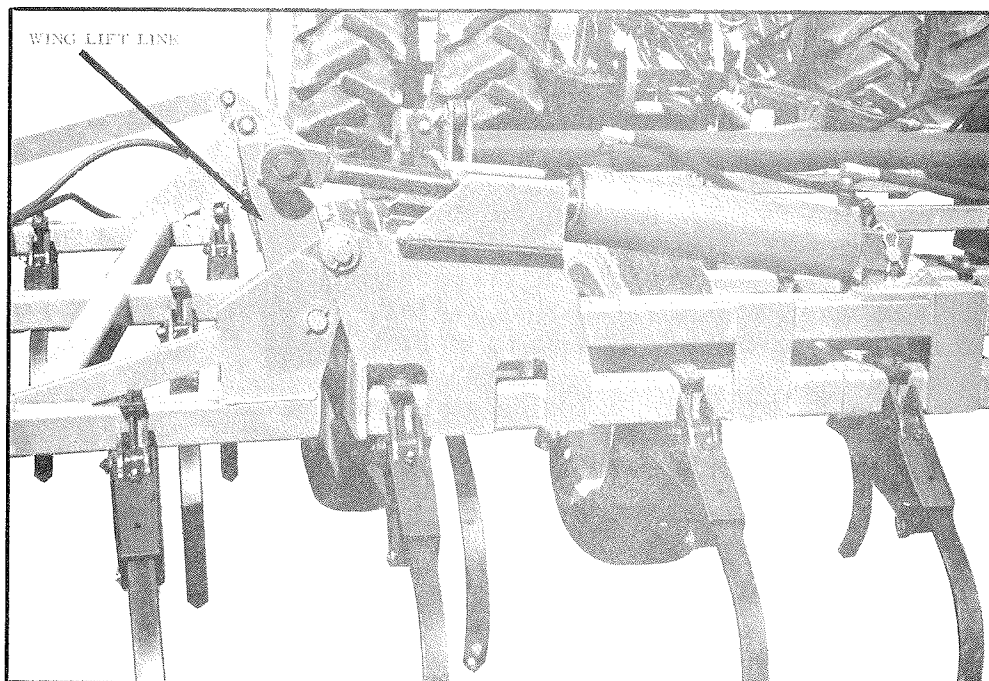


Figure 13

12. Attach wing fold cylinders. See illustration for rod end assembly. Figure 14.

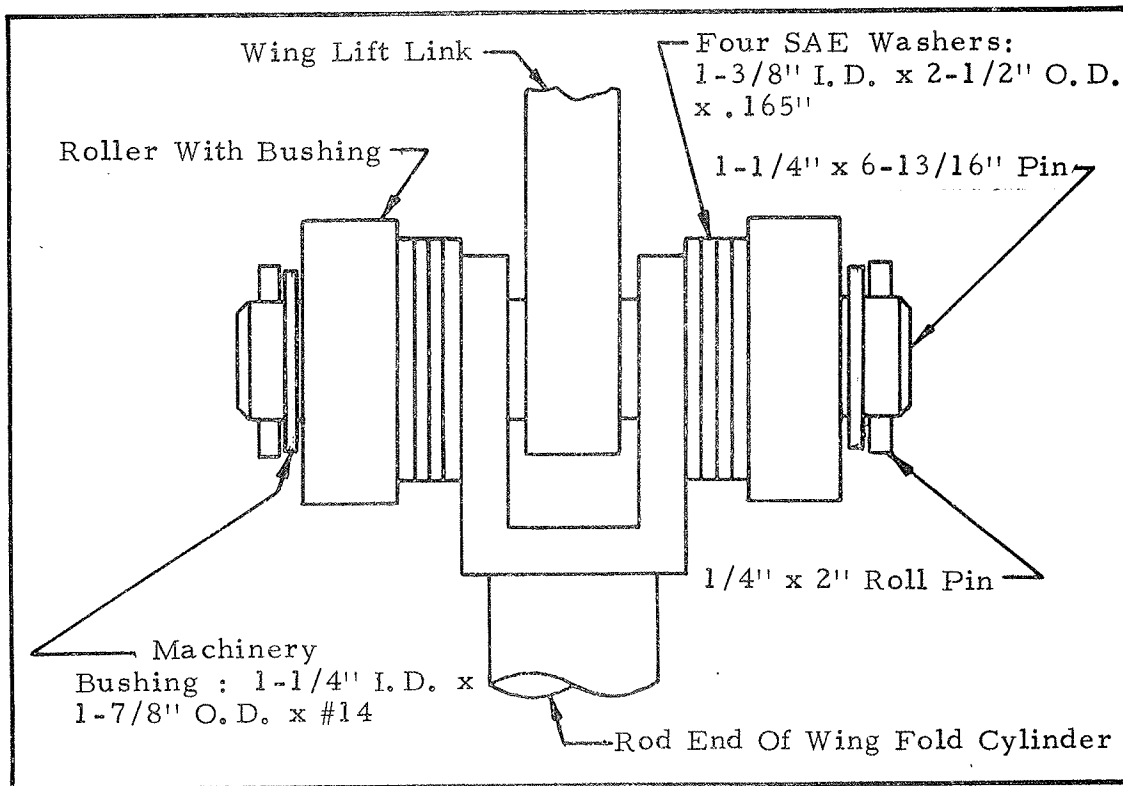


Figure 14

13. Install hydraulic lines according to hydraulic circuit diagram, Figure 19, securing hoses with plastic cable ties provided. Steel tubes are fastened with 1" x 2-1/2" x #12 formed clamps and 5/16" x 1" cap screws. See Figures 4, 5, 7 and 8 for general hose routing.
14. Attach wing stops, using 3/8" x 6" x 6" plates and 1/2" x 5" capscrews. Figure 9 shows location on wide wings. For machines with narrow wings, stops are mounted to frame tube directly behind wing wheel.
15. Attach extension assemblies with hardware provided. See shank spacing charts, Figures 15, 16, 17 and 18. Note for wide wing machines: It is necessary to place extensions in staggered pattern as shown to prevent interference when wings are folded. Also, forward extensions must be located to allow stabilizer wheels to swivel 360° without interference.
16. Install grease zerks in areas indicated in lubrication section.
17. Install shank assemblies according to spacing charts.

6" SHANK SPACING

Number Is Distance In Inches From Center Of Machine

When installing 7" or 9" sweeps, use 7" half sweeps as follows:

* at 96" on left wing - L.H. half sweep

** at 96" on right wing - R.H. half sweep

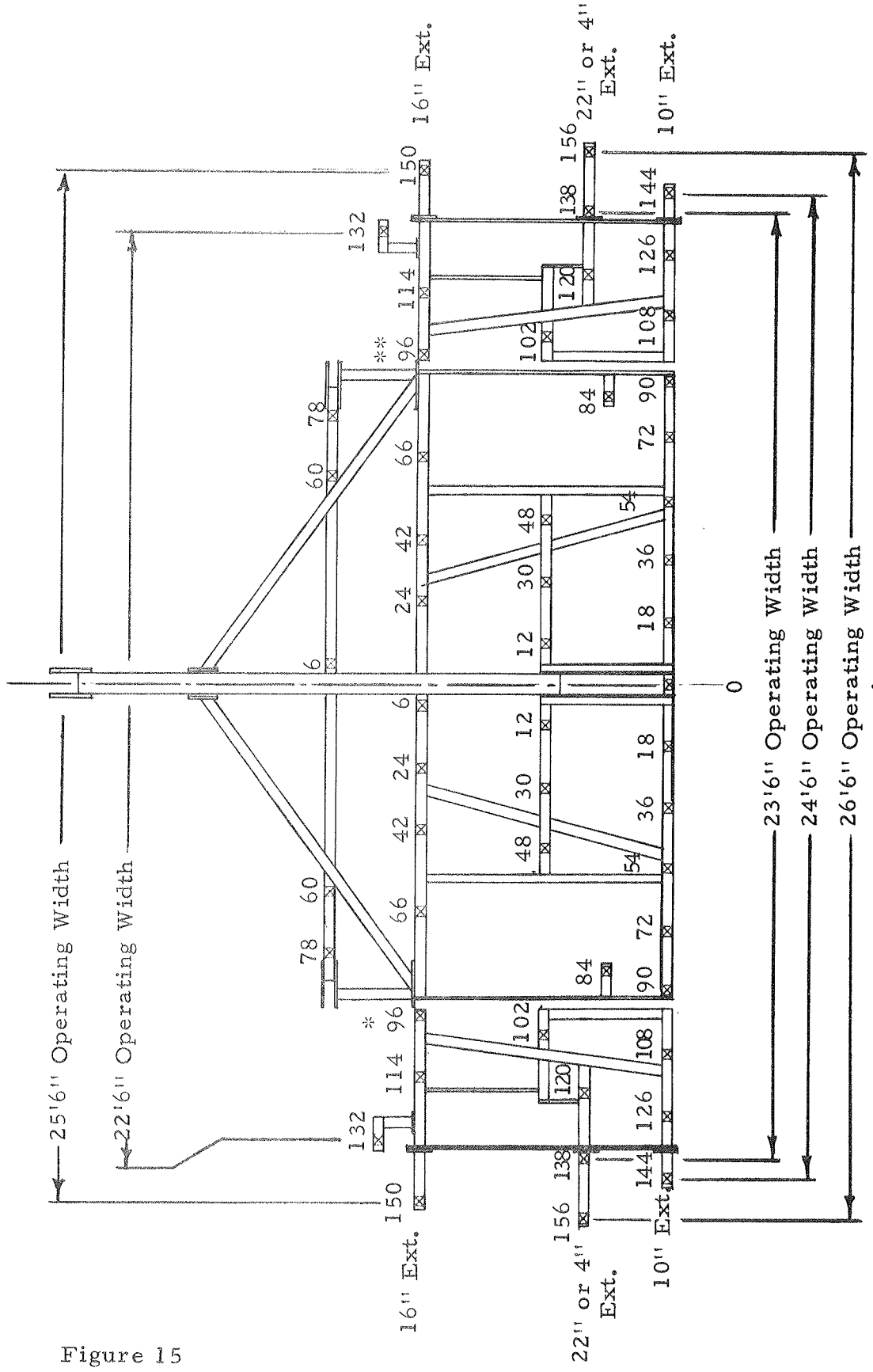


Figure 15

6" SHANK SPACING

Number Is Distance In Inches From Center Of Machine

When installing 7" or 9" sweeps, use 7" half sweeps as follows:

* at 96" on left wing - L.H. half sweep

** at 96" and 174" on right wing - R.H. half sweeps

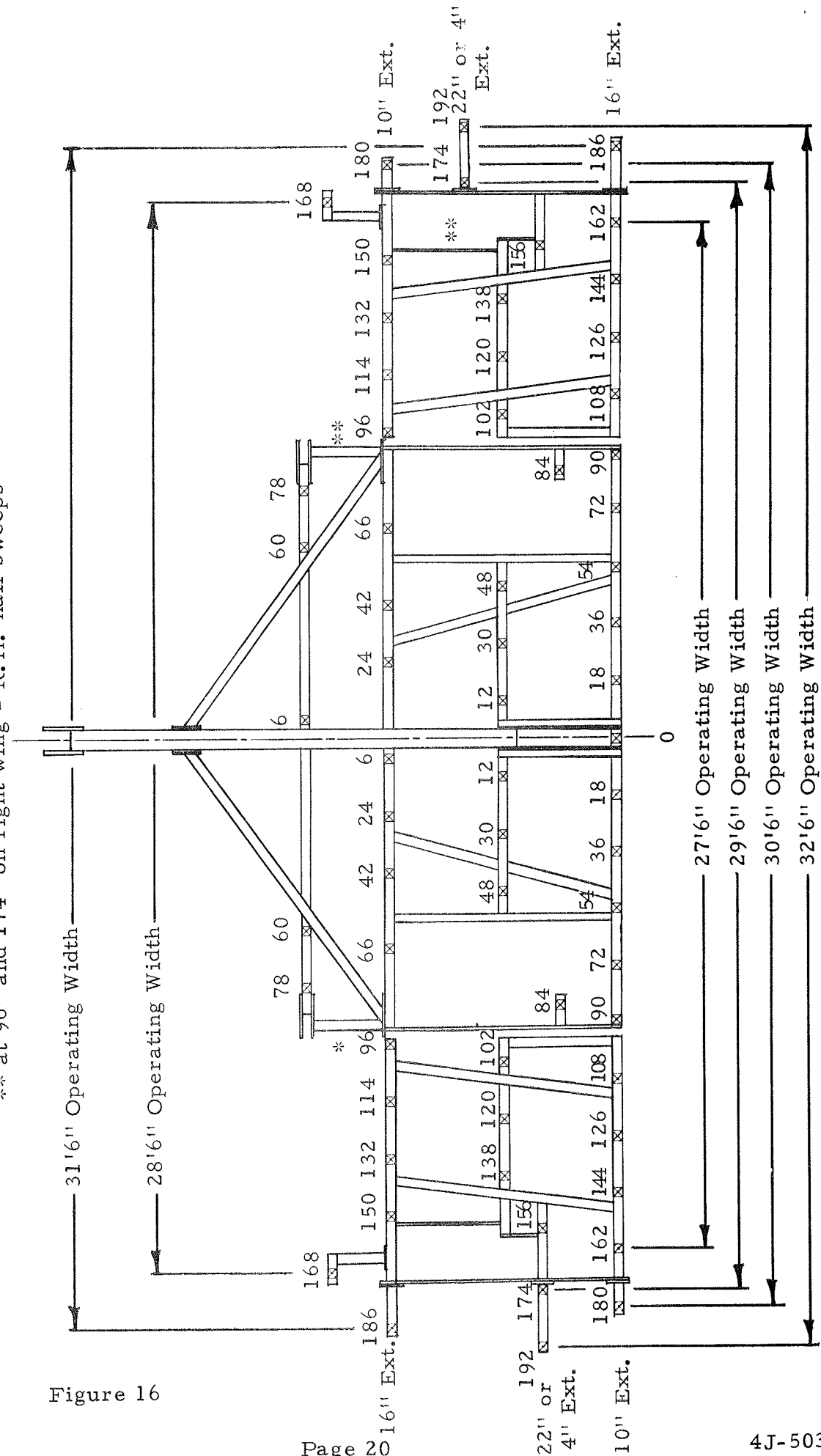


Figure 16

9" SHANK SPACING

Number Is Distance In Inches From Center Of Machine

Half sweeps will not normally be needed for these widths and shank spacing.

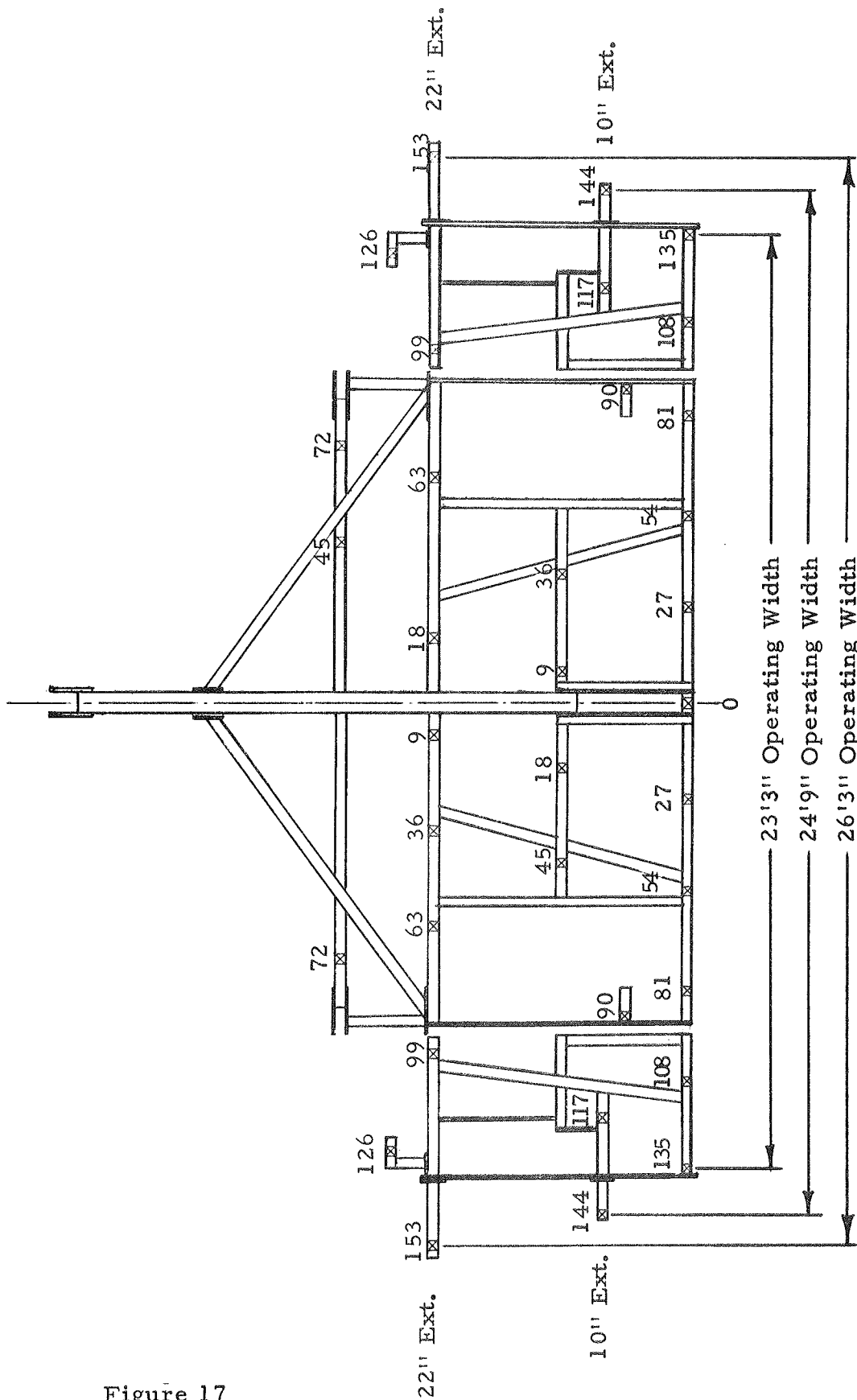


Figure 17

9" SHANK SPACING

Number Is Distance In Inches From Center Of Machine

Half Sweeps will not normally be needed for these widths and shank spacing.

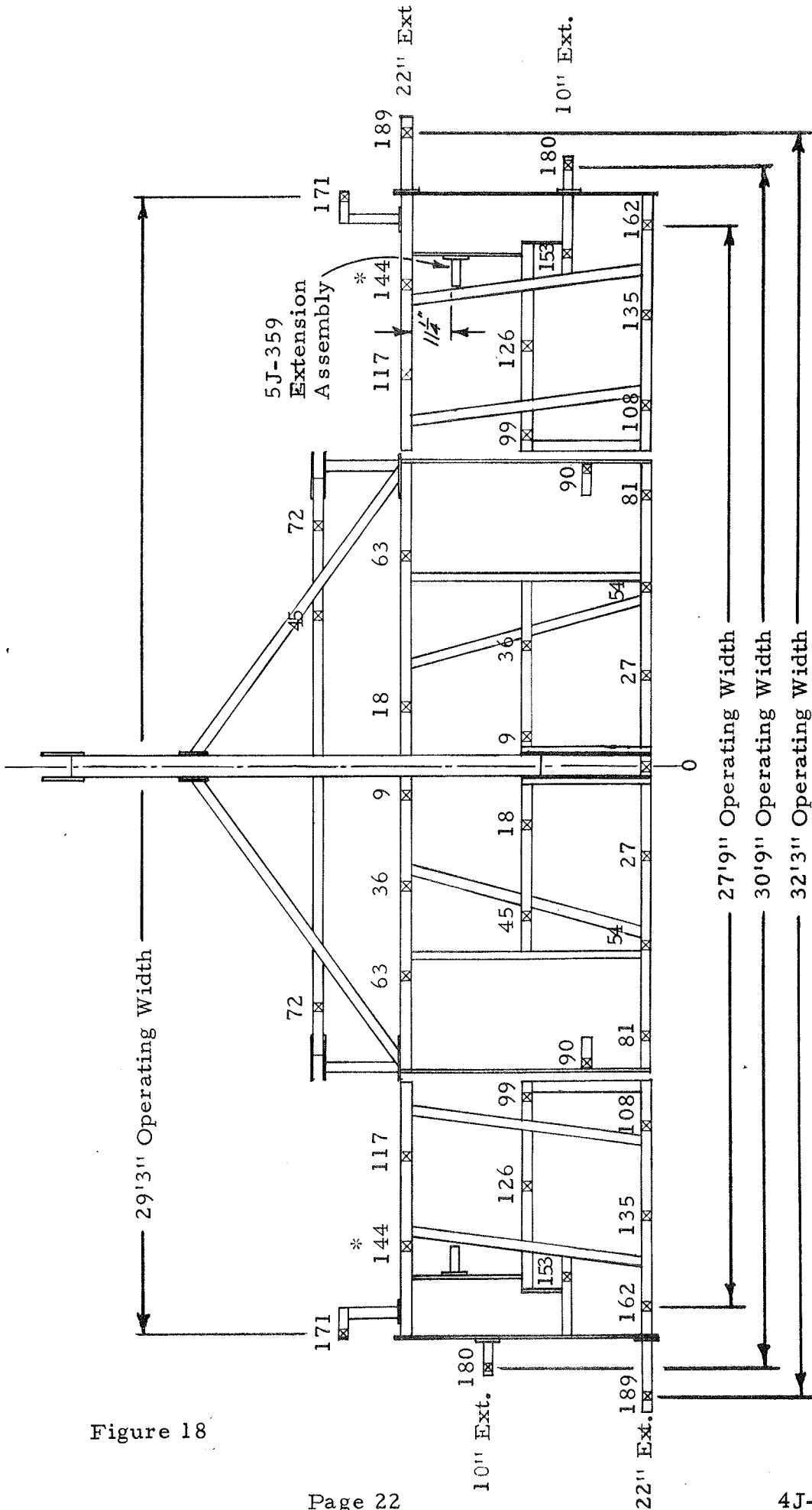


Figure 18

*Install these two shanks on 5J-359 extension assemblies when forward stabilizer wheels are used.

HYDRAULIC CIRCUIT DIAGRAM

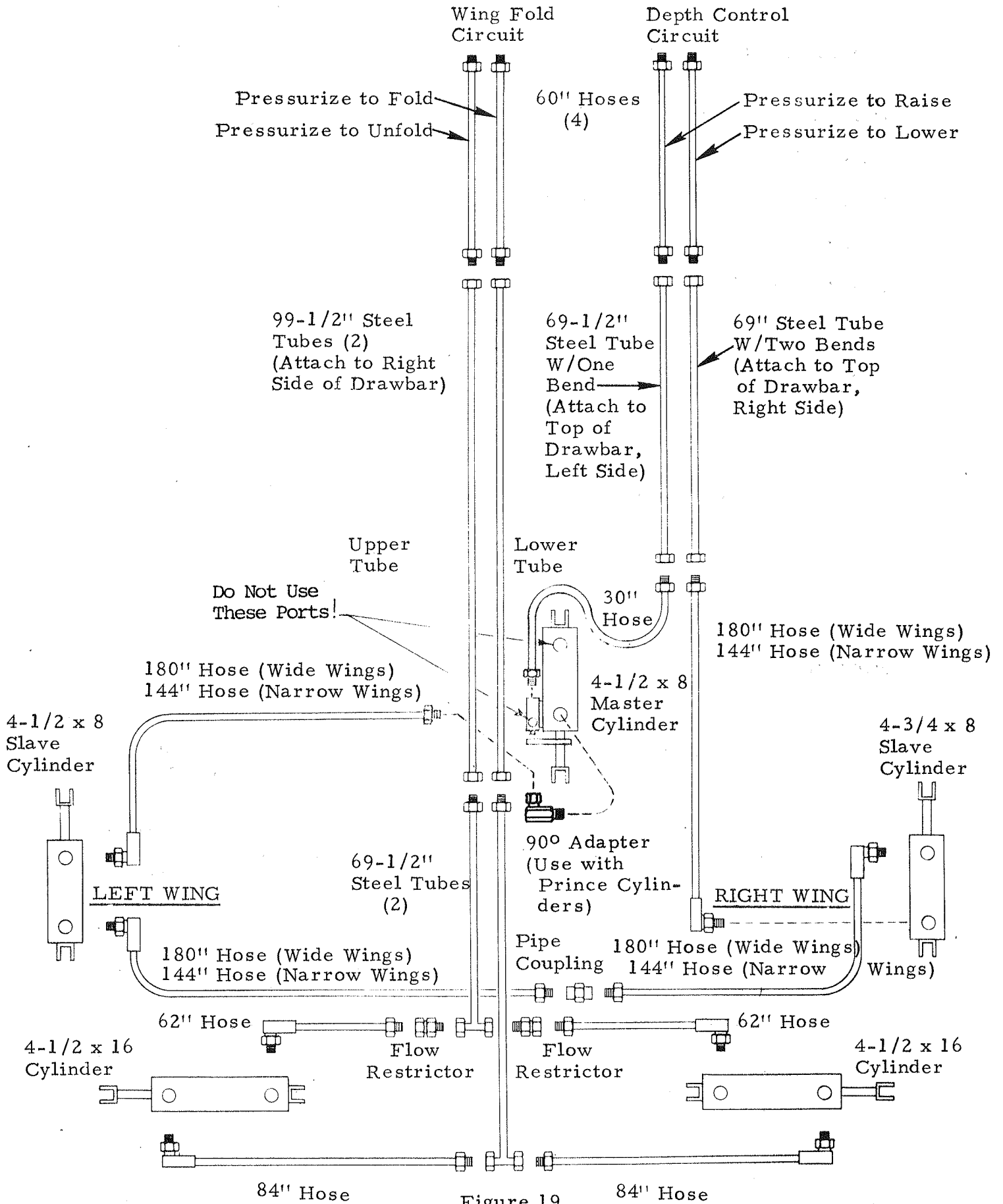


Figure 19

FCF FIELD CULTIVATOR SPECIFICATIONS

Frame: Welded construction, 3" square x 1/4" wall structural tubing on principal members of center section, wings, and extensions.

Drawbar: 6" x 4" x 1/4" wall structural tubing.

Rockshaft: 4" O.D. x 3/8" wall tubing.

All models use same center frame.

Models 27' and larger use wide wings and various stub extensions.

Models under 27' use narrow wings and various stub extensions.

Wheels, tires and axles:

Center: walking beam axle, four 15 x 8 lb 6-bolt wheels for 9.5L x 15 6 ply tires. Walking beams are mounted on tapered roller bearings.

Wings: One 15 x 8 lb 6-bolt wheel for 9.5L x 15 6 ply tire on each wing.

Optional stabilizer wheels: One 15 x 4-1/2 KB 4-bolt wheel for 6.70 x 15 4 ply tire on each wing.

(Tires are not included.)

Hydraulics:

Wing-fold cylinders: two 4-1/2 x 16 cylinders.

Depth control: master-slave system, 4-1/2 x 8 master with infinitely variable hydraulic depth control; one 4-1/2 x 8 slave and one 4-3/4 x 8 slave.

All hydraulic cylinders, tubes and hoses to tractor are included. Customer must provide four quick-disconnect couplings to match tractor (1/2" pipe thread on hoses). Tractor must have provision for two remote circuits.

Wheel Tread Dimensions:

Over inner wheel of walking beam assemblies: 10'5-11/16".

Over outer wheel of walking beam assemblies: 14'1-5/16".

Over wide wing wheels: 27'4-1/4".

Over narrow wing wheels: 21'4-1/4".

Transport Width: 15'-8-1/2" all models (all are flat-folding).

Transport Height: Approx. 82"

Overall Length: 17'5"

Clearance: 21-3/4" from tip of point to bottom of frame, 8" from tip of points on front rank to ground.

Shanks: 1/2 x 1-3/4 heat treated alloy steel - take standard reversible point or sweep mounted with 7/16" bolts on 1-3/4" to 2" hole centers.

Hitch: flip-flop style, ductile iron.

Optional Equipment: 4J-798 Self-adjusting Front Stabilizer Wheel Kit
4J-800 1-3/4" x 11" Reversible Point
4J-801 2" Heavy Duty Reversible Point
4J-802 4" Full Sweep
4J-803 7" Full Sweep
4J-804 9" Full Sweep
4J-805 7" Half Sweep, R. H.
4J-806 7" Half Sweep, L. H.

6" Shank Spacing

<u>Model</u>	<u>Teeth</u>	<u>*Approx. Weight</u>	<u>Working Width</u>
FCF-2266	45	5,490 #	22'-6"
FCF-2366	47	5,560 #	23'-6"
FCF-2466	49	5,640 #	24'-6"
FCF-2566	51	5,725 #	25'-6"
FCF-2666	53	5,810 #	26'-6"
FCF-2766	55	5,900 #	27'-6"
FCF-2866	57	6,000 #	28'-6"
FCF-2966	59	6,075 #	29'-6"
FCF-3066	61	6,155 #	30'-6"
FCF-3166	63	6,240 #	31'-6"
FCF-3266	65	6,325 #	32'-6"

9" Shank Spacing

FCF-2339	31	5,100 #	23'-3"
FCF-2499	33	5,180 #	24'-9"
FCF-2639	35	5,275 #	26'-3"
FCF-2799	37	5,400 #	27'-9"
FCF-2939	39	5,500 #	29'-3"
FCF-3099	41	5,580 #	30'-9"
FCF-3239	43	5,675 #	32'-3"

(Specifications and design are subject to change without notice.)

*Add 495 lbs. for machines with optional 4J-798 front stabilizer wheel kit. Standard tooth points will add 1 lb. each. Heavy duty points and sweeps add 2 lbs. each.