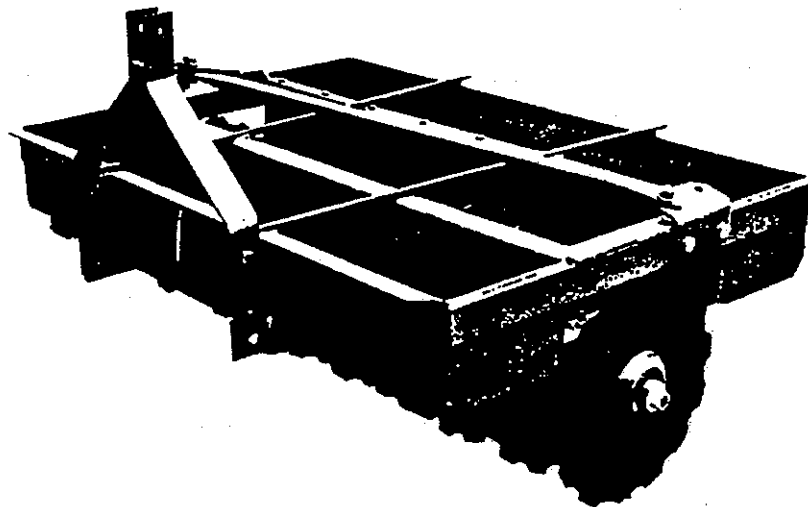


FINN

CORPORATION



KRIMPER

PARTS & OPERATOR'S

MANUAL

MODEL No. KR-6/KR-8 SERIAL No. RD

WARRANTY

Finn warrants to the original Purchaser for use (or rental to others for use) all new construction machinery and attachments therefore manufactured by Finn to be free from defects in material and workmanship for a period of 12 months from date of purchase or 1200 hours of use, whichever comes first. Replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed, as if such parts were original components of that product. Finn makes no warranty with respect to (a) allied equipment or grade accessories not manufactured by it (such as, but not limited to tires, ignitions, starters, batteries, magnetos, carburetors, engines or like or unlike equipment or accessories), such being subject to the warranty, if any, provided by their respective manufacturers; or (b) second-hand, used, altered, or rebuilt machines. THE WARRANTY DESCRIBED IN THIS PARAGRAPH SHALL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Upon notification of Finn within the above-stated warranty period of any failure to conform to this warranty, and upon inspection by Finn to verify said nonconformity and to verify the continuing existence of the warranty period, Finn will provide a new part or a repaired part, whichever Finn elects, to replace the part found to be defective. Such parts will be provided without charge to the Purchaser during normal working hours at a place of business of a Finn dealer or other establishment authorized by Finn to effect said repairs or replacements, but Purchaser shall bear all costs of transporting the product to and from such place of business or establishment. Correction of nonconformities, in the manner and for the period time provided above, shall constitute fulfillment of all liabilities of Finn under this contract.

THE REMEDIES OF THE USER SET FORTH HEREIN ARE EXCLUSIVE, WITHOUT REGARD TO WHETHER ANY DEFECT WAS DISCOVERABLE OR LATENT AT THE TIME OF DELIVERY OF THE PRODUCT TO THE PURCHASER. The essential purpose of this exclusive remedy shall be to provide the Purchaser with repair or replacement of parts that prove to be defective within the period and under the conditions previously set forth. This exclusive remedy shall not have failed of its essential purpose (as that term is used in the uniform Commercial Code) provided Finn remains willing to repair or replace defective parts within a commercially reasonable time after it obtains actual knowledge of the existence of a particular defect.

IN NO EVENT SHALL FINN BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING LOST PROFITS OR LOST COMMERCIAL OPPORTUNITIES, WITH RESPECT TO THE SALE OF THE ABOVE-WARRANTED PRODUCT OR ANYTHING DONE IN CONNECTION THEREWITH, OR FOR PROPERTY DAMAGE SUSTAINED BY A PERSON CLAIMING TO BE A THIRD-PARTY BENEFICIARY OF A SURVIVING WARRANTY UNDER THE LAW OF ANY JURISDICTION.

Effective October 1, 1989.

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OPERATION OF THE FINN KRIMPER

The Finn Krimper is to be drawn with a tractor over the mulched bed, incorporating some of the mulch fibers into the soil.

The tractor should preferably be equiped with dual rear wheels or flotation tires to minimize packing of the seed bed.

Sufficient depth is essential and this can be accomplished by partial or total loading of the ballast boxes on the Krimper with dirt, rocks, concrete blocks, or permanently filling with concrete. The type of soil and compactness of the seed bed are the determining factors for the amount of weight. The most desirable depth ranges from 1" in clay to 2" in sandy soils.

The direction of travel will usually be determined by the shape of the seed bed and the topography, however, when possible one should krimp in a direction 90 degrees to the prevailing winds.

On slopes, the most stablizing effect will be achieved by krimping in a horizontal direction, (much like a farmer "contouring" his hilly farm) rather than up and down the slope.

MAINTENANCE & LUBRICATION

The bearings on the coulter blade axle ('s) should be lubricated daily or before each operation using chassis lubricant. There are four lube points on 8' Krimper Models and three lube points on the 6' Models (one per each bearing).

On Models with the Tow Hitch & Towing Axle Option, the two Torsion Bar Bearings should also be lubricated prior to each use with chassis lubricant.

ASSEMBLY OF THE FINN KRIMPER

(refer to Figs 1, 2, & 3)

Assembly of the Krimper begins with the Coulter Blade & Axle Assembly:

Slide the parts listed below onto the Coulter Axle, pushing them towards the end with the welded stop collar in the following sequence:

6 Foot Model

Washer w/square hole (ref.#5)
 Spring Washer (ref.#6)
 Coulter Blade (ref.#7)
 Bearing & Spacer Assembly (ref.#8)
 Coulter Blade (ref.#7)
 Spacer Spool (ref.#13)
 Coulter Blade (ref.#7)
 Spacer Spool (ref.#13)
 Coulter Blade (ref.#7)
 Bearing & Spacer Assembly (ref.#8)
 Coulter Blade (ref.#7)
 Spacer Spool (ref.#13)
 Coulter Blade (ref.#7)
 Spacer Spool (ref.#13)
 Coulter Blade (ref.#7)
 Spacer Spool (ref.#13)
 Coulter Blade (ref.#7)
 Bearing & Spacer Assembly (ref.#8)
 Coulter Blade (ref.#7)
 Spring Washer (ref.#6)
 Axle End Spacer (ref.#14)
 Square Nut (ref.#15)
 Square Nut (ref.#15)

8 Foot Model (for each axle)

Washer w/square hole (ref.#5)
 Spring Washer (ref.#6)
 Coulter Blade (ref.#7)
 Bearing & Spacer Assembly (ref.#8)
 Coulter Blade (ref.#7)
 Spacer Spool (ref.#13)
 Coulter Blade (ref.#7)
 Spacer Spool (ref.#13)
 Coulter Blade (ref.#7)
 Spacer Spool (ref.#13)
 Coulter Blade (ref.#7)
 Bearing & Spacer Assembly (ref.#8)
 Coulter Blade (ref.#7)
 Spring Washer (ref.#6)
 Axle End Spacer (ref.#14)
 Square Nut (ref.#15)
 Square Nut (ref.#15)

After assembly, tighten the first square nut hand tight.

Leave the Coulter Blade & Axle Assembly lying on the ground, with the threaded studs of the Bearing Mounts (ref.#12A) facing up, so they can accept the Frame. Place the Frame on top of the Coulter Blade & Axle Assembly and secure it to the Bearing Mounts with the 5/8" Locknuts & Washers.

Tighten the first Square Nut (ref.#15) on the Axle to 500 ft./lbs. torque; install the second square nut as a jam nut.

Assemble the Blade Scrapers (ref.#16) to the Frame with the 1/2" Bolts, Washers & Locknuts.

To complete assembly, install either the 3-Point Hitch or the Tow Hitch & Tow Axle, depending on model type; see pages 4, 5 & 6.

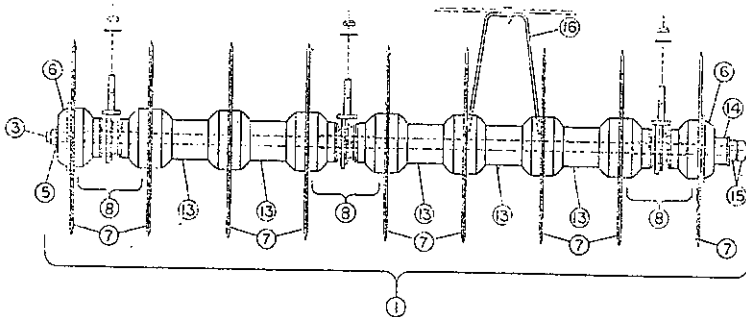


FIG. 1

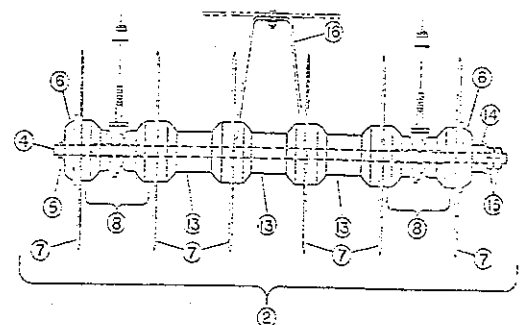
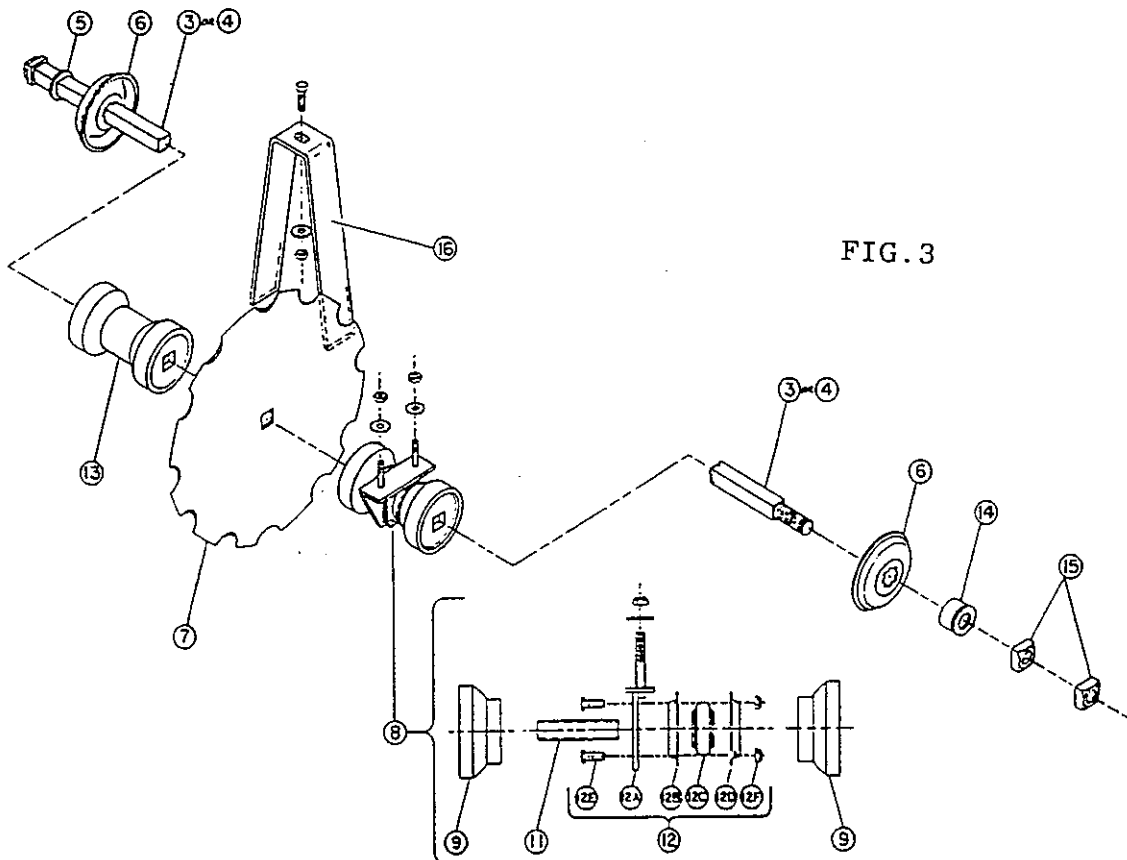


FIG. 2

COULTER BLADE & AXLE ASSEMBLY

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Qty.-6'</u>	<u>Qty.-8'</u>
1	50249-A	Coulter Blade & Axle Assembly, 6' Model (includes: item 3 & items 5 thru 15)	1	-
2	50250-A	Coulter Blade & Axle Assembly, 8' Model (includes: items 4 thru 15)	-	2
3	50269-04	Axle, 6' Model	1	-
4	50269-05	Axle, 8' Model	-	2
5	50215	Washer w/Square Hole	1	2
6	50205	Spring Washer	2	4
7	50053	Coulter Blade	9	12
8	50268	Bearing & Spacer Assembly (includes: items 9 thru 12)	3	4
9	50263	Bearing Spacer	6	8
11	50269-03	Bearing Spacer Tube	3	4
12	50262	Bearing Assembly (includes: items 12A-12F)	3	4
12A	50264	Bearing Mount (w/ 2 each of #W10F Washer & #Y10L Hex Locknut)	3	4
12B	50267	Flangette	3	4
12C	50265	Bearing	3	4
12D	50266	Flangette w/ Lube Fitting	3	4
12E	X0820	Bolt	12	16
12F	Y08L	Locknut	12	16
13	50043	Blade Spacer Spool	5	6
14	50214	Axle End Spacer	1	2
15	Y16S	Square Nut	2	4
16	50203	Blade Scraper (w/ #X0820 Bolt, #W08F Washer, & #Y08L Locknut)	8	11
17	50227	Frame Assembly, 6' Model (not shown)	1	-
18	50255	Frame assembly, 8' Model (not shown)	-	1



4
THREE POINT HITCH ASSEMBLY

Align the Yoke Assembly (ref.#20) with the holes on the front of the frame.

Place the $\frac{3}{8}$ " diameter Draw Pins (ref.#22) in the upper set of holes, with the pins facing inside of the yoke assembly. Use these pins when using a tractor equippe with a category I hitch.

Place the $1\frac{1}{8}$ " diameter Draw Pins (ref.#23) in the lower set of holes, with the pins facing outside of the yoke assembly. Use these pins when using a tractor equipped with a category II hitch.

Assemble the Angle Brackets (ref.#25) to the holes on both sides of the frame.

Connect the Support Tubes (ref.#'s 26 & 27) from the yoke assembly to the angle brackets.

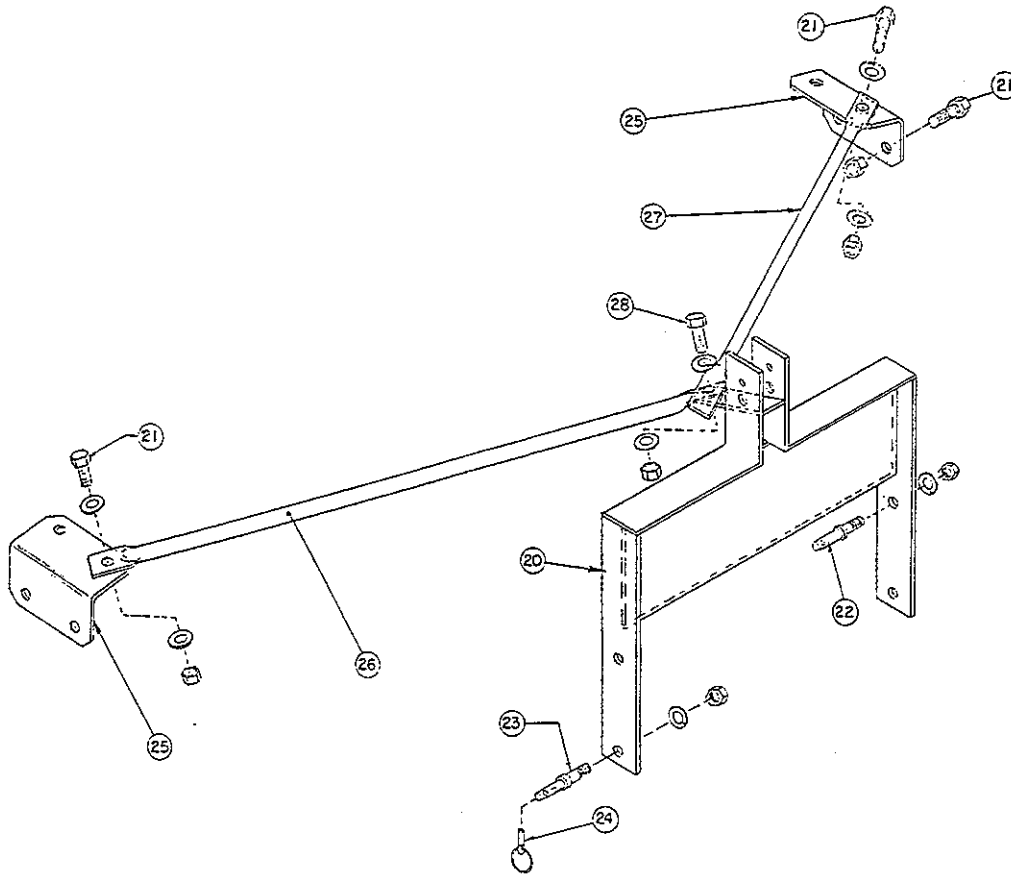


FIG. 4

Ref. No.	Part No. (6' Model)	Part No. (8' Model)	Qty. Req'd	Description
19	50224	50223	1	Three point hitch assembly, complete (includes: items 20 thru 28)
20	50257	50257	1	Yoke Assembly
21	X1228	X1228	6	$\frac{3}{8}$ -10 X $1\frac{1}{4}$ " Hex Bolt
	Y12L	Y12L	6	$\frac{3}{8}$ -10 Lock Nut
	W12F	W12F	4	$\frac{3}{8}$ Flatwasher
22	31045	31045	2	Category I Draw Pin ($\frac{3}{8}$ " Dia.)
23	50252	50252	2	Category II Draw Pin ($1\frac{1}{8}$ " Dia.)
24	50086	50086	2	Pin, Snap Ring
25	50243-2	50243-2	2	Angle Bracket
26	50241-1	50241-2	1	Support Tube, Left Hand
27	50241-3	50241-4	1	Support Tube, Right Hand
28	X1232	X1232	1	$\frac{3}{8}$ -10 X 2" Hex Bolt
	Y12L	Y12L	1	$\frac{3}{8}$ -10 Lock Nut
	W12F	W12F	2	$\frac{3}{8}$ Flatwasher

TOW HITCH & TOWING AXLE ASSEMBLY

(refer to Fig.s 5 & 6)

Attach the Tow Hitch Assembly (ref.#29) to the front of the frame.

Slide the Torsion Bar Bearings (ref.#33) onto the ends of the Torsion Bar/Spindle Assembly (ref.#32).

Lay the Torsion Bar Assembly over the top of the assembled Krimper and attach it to the frame.

Connect the rod end of the Hydraulic Cylinder (ref.#42) to the crank arm on the Torsion Bar Assembly.

Connect the other end of the Cylinder just behind the front ballast box on the left side (looking from the rear) of the frame assembly.

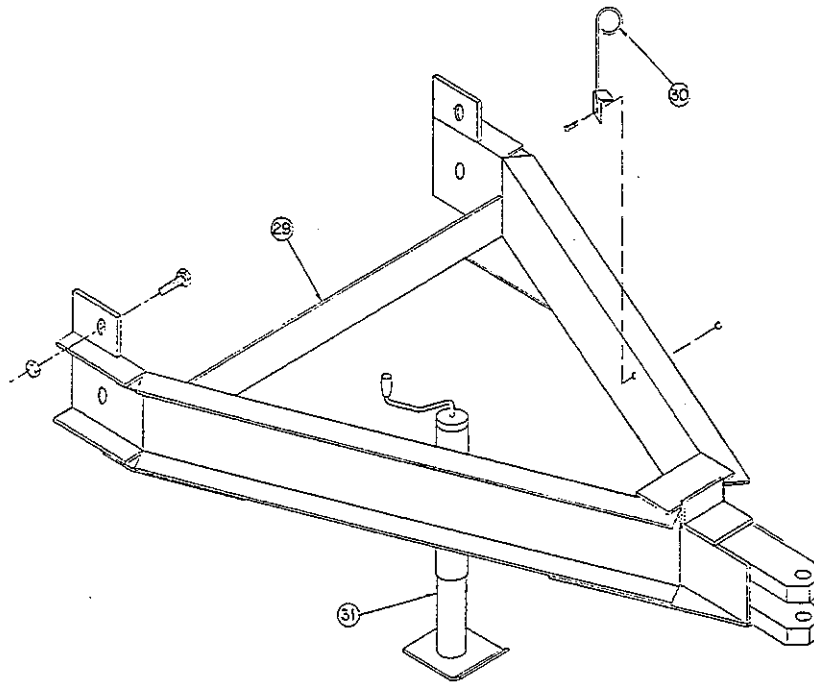


FIG. 5

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Qty.</u>
29	50229	Tow Hitch Assembly	1
	X1228	3/4-10 x 1-3/4" Hex Bolt	4
	Y12L	3/4-10 Lock Nut	4
30	50072	Hose Support	1
	X0820	1/2-13 x 1-1/4" Hex Bolt	1
	Y08L	1/2-13 Lock Nut	1
31	31189	Jack	1
	22589	Snap Retaining Ring	1

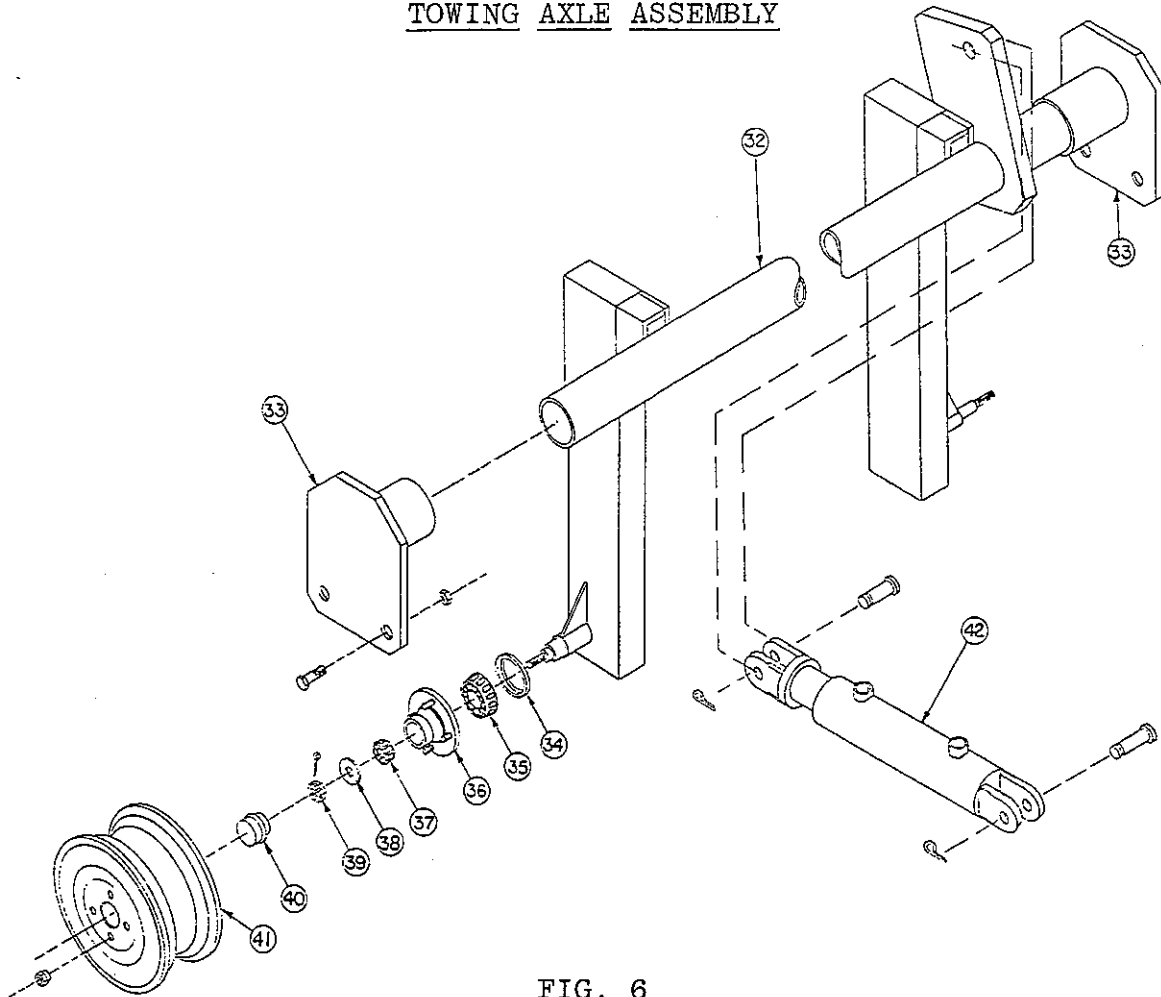
TOWING AXLE ASSEMBLY

FIG. 6

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Qty.</u>
32	50230-01	Torsion Bar/Spindle Assembly	1
33	50230-02	Torsion Bar Bearing	2
	X1228	3/4-10 x 1-3/4" Hex Bolt	4
	Y12L	3/4-10 Lock Nut	4
34	WLSL-150	Seal	2
35	WLLM-67048	Inner Bearing Cone	2
36	WLH-15-450E	Hub Assembly	2
	WLLM-67010	Cup, Inner Bearing	2
	WLLM-11910	Cup, Outer Bearing	2
	WLST-500	Studs	8
37	WLLM-11949	Inner Bearing Cone	2
38	WLSW-751	Spindle Washer	2
39	WLSN-750	Spindle Nut	2
	WLSCP-100	Cotter Pin	2
40	WL1504	Dust Cap	2
41	50085	Wheel	2
	WLSTN-509	Lug Nut	8
42E	50256	Hydraulic Cylinder (w/ Clevis Pins & Clips)	1