



# MODEL NO. 45-0390 TINE HARROW

## ASSEMBLY INSTRUCTIONS

The Tine Harrow consists of two sections of 4 rows of tines (2-1/2' length) with welded hooks on the front section, open hooks and "S" hooks on the rear section. Total length is 8 rows of tines (5' length.)

1. The harrow sections are in two labelled bundles. The sections with welded front hooks will be located at the front and the sections with the open hooks and s-hooks will be located at the rear. Unroll the front and rear sections and line them up. Note how the front and rear sections are joined. See figures 1 and 2.



FIGURE 1

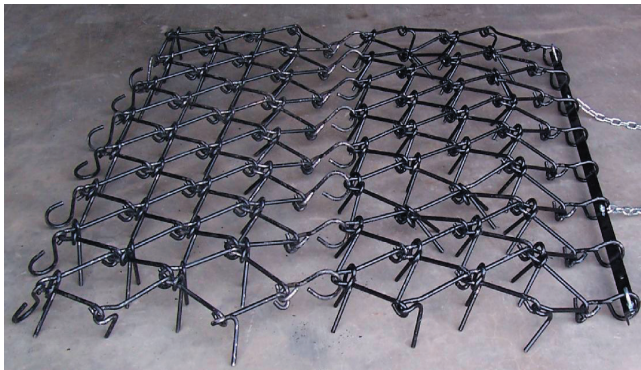


FIGURE 2

2. Slide the drawbar through the welded hooks on the front of the harrow section. See figure 3.



FIGURE 3

3. Make sure the top angle of the drawbar which contains the holes is facing forward, away from the section. Use a flanged nut to attach a J-bolt with nut to the top of the drawbar at each end to secure the drawbar to the section. See figure 4.



FIGURE 4

4. Attach the clevis to the middle link in the chain using a 5/16" x 2-1/4" hex bolt and 5/16" nylock nut.

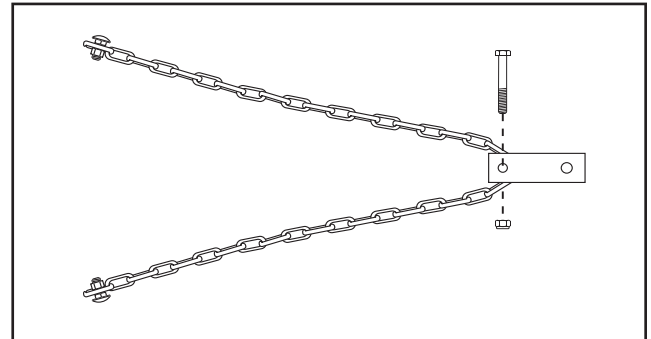


FIGURE 5

5. Attach the chain to the drawbar with two 7/16" x 1-1/2" carriage bolts, lock washers and nuts. The chain can be attached in two positions on the drawbar depending on the size of the harrow and turning radius desired. See figure 6.



FIGURE 6

## OPERATION

The Tine Harrow can be pulled in many different configurations.

### Aggressive: For maximum penetration.

For this setup, slide the drawbar through the welded rings and use the open hooks to connect the back to the front section. This is the most common harrow configuration. This setting allows for the most work per pass.

### Backward: For light penetration.

This setup uses the same configuration as the aggressive except you slide the drawbar through the S-hooks instead of the welded hooks. The tines laying flat will knock down material without penetrating very deep.

### Upside Down: For smoothing.

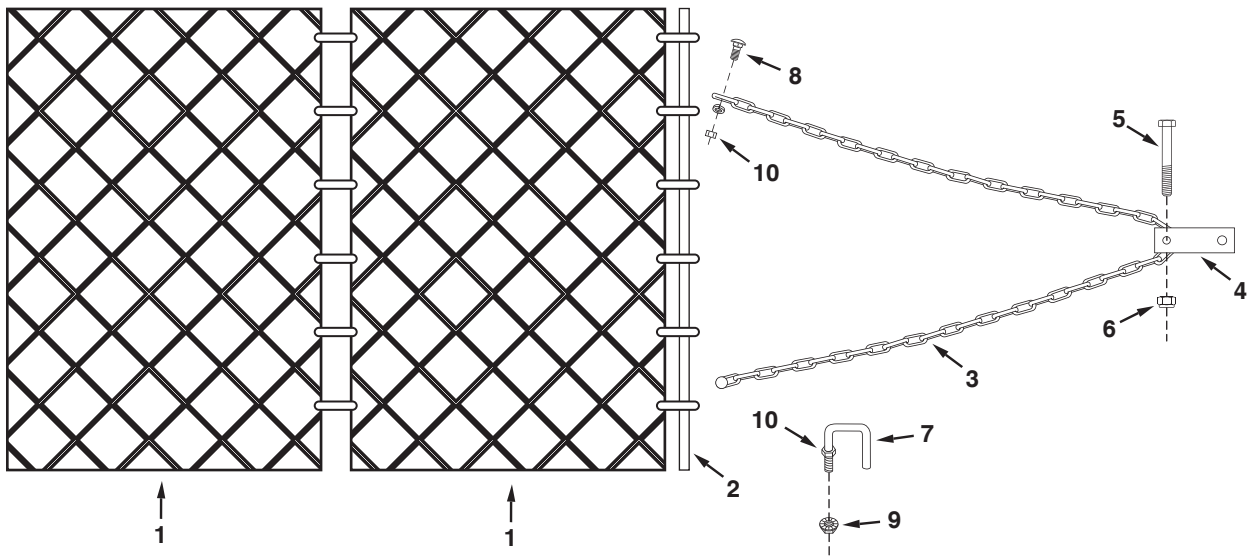
Simply flip both the front and rear sections on their back and pull from either direction. This does a nice job of scattering material, smoothing and as a finishing pass.

### Combination: For working up and smoothing in one pass.

**Front section** - Aggressive with maximum penetration.

**Rear section** - Backward (for light penetration) or Upside Down (for smoothing.)

This is a popular setup for horse arenas and driveways. By having the front section digging in and the rear section smoothing out, you can work up and dress up in one pass.



### REPAIR PARTS FOR TINE HARROW MODEL 45-0390

Ref. No.	Part No.	Qty.	Description
1	40077	2	Drag Array
2	40078	1	Tow Bar
3	40076	1	Tow Linkage Chain
4	24221	1	Clevis
5	43224	1	5/16" x 2-1/4" Hex Bolt
6	47810	1	5/16" Nylock Nut
7	40257	2	J-Bolt, 7/16-14
8	HA181668	2	Bolt, 7/16-14 x 1-1/4"
9	43554	2	Lock Nut, 7/16-14
10	R73220700	4	Nut, 7/16-14
11	43555	2	Lock Washer, 7/16"
	40075	1	Owners Manual

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