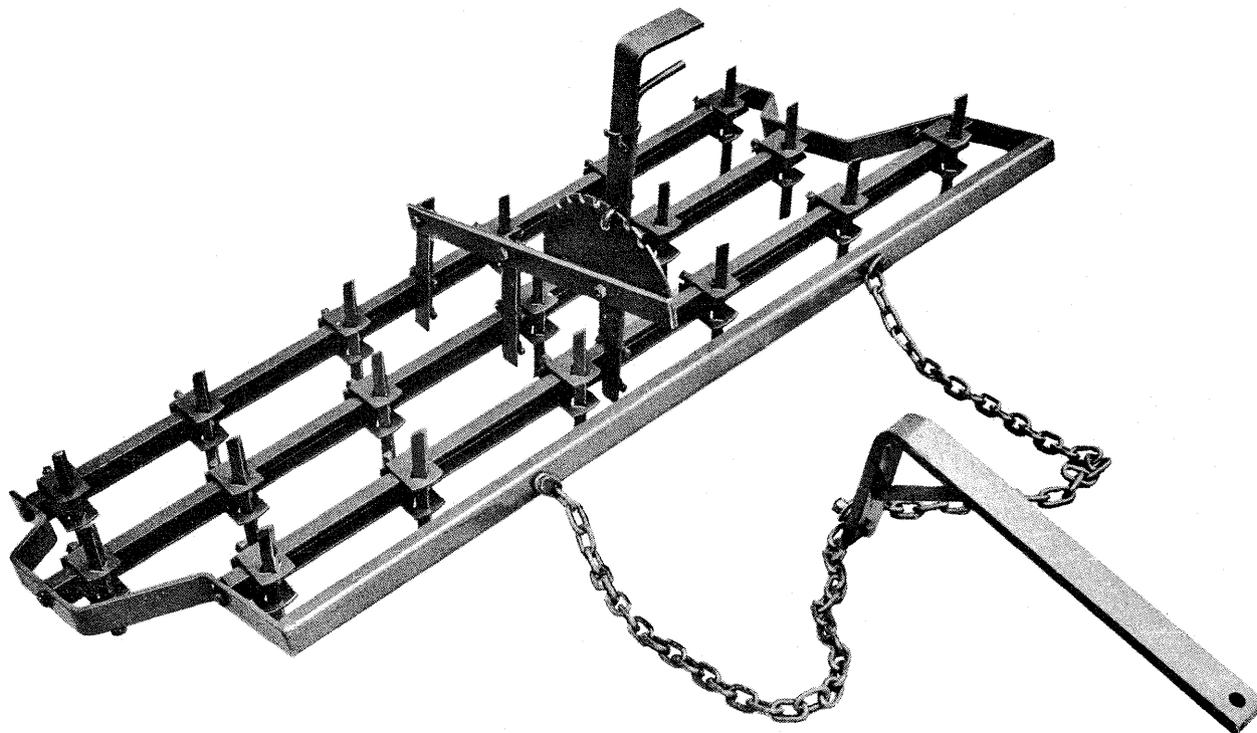




# HARROW PH-181

## PARTS LIST AND INSTRUCTIONS



### MOUNTING

The Harrow is shipped in a carton almost completely assembled.

1. Remove from carton and lay Harrow out on the floor. There are 3 pieces plus a bag with bolts.

2. Bolt adjusting lever fast to the Harrow using U-Bolts. Place the lever towards the front as shown in photograph.

3. Fasten chain to channel using  $\frac{3}{8}$ " x  $1\frac{1}{2}$ " bolts and washers.

4. It will be necessary to readjust several spikes as they are moved in for shipping. At the same time, if desired, the spikes may be adjusted for height, this will depend upon the condition of the soil to be harrowed.

5. Place the hitch in the tractor-hitch with the chain ring down. The angle of the Harrow teeth may be adjusted with the lever according to operator.

6. Machine oil should be applied to any moving parts.

### OPERATION

The Harrow may be used as a Drag to level with by moving lever all the way forward and pulling the spikes up.

When using Harrow in hard soil, added weight may be applied for better penetration.

In grassy condition, it may be necessary to clean grass from spikes occasionally, as the spikes will build up with grass.

# PARTS LIST

Ref. No.	Part No.	Description	No. Req'd.
1	2611	Frame Assembly	1
2	2607	Draw Bar Assembly	1
3	2626	Sector Assembly	1
4	2613	Handle	1
5	1375	Cotter Pin $\frac{5}{16} \times \frac{3}{4}$	1
6	2623	Adjusting Angle	2
7	2622	Adjusting Angle	1
8	2621 (366-16)	Spike	16
9	2624	Clamp—Spike	16
10	2617	Locking Pin—Spike Control Bar	1
11	2619	"U" Bolt	3
12	2625	Compression Spring	1
13	2610	Chain	2
14	1023	Square Head Set Screw, $\frac{3}{8}$ -16 x 1	16
15	1072	Square Nut $\frac{3}{8}$ -16	16
16	1016	Hex Nut, $\frac{3}{8}$ -16	9
17	1002	Cotter $\frac{1}{8} \times 1$	6
18	1017	Flat Washer, S.A.E. $\frac{1}{2}$	6
19	1039	Lockwasher	2
20	1064	Hex Head Cap Screw, $\frac{3}{8}$ -16 x $1\frac{1}{2}$	2
21	1028	Hex Head Cap Screw, $\frac{3}{8}$ -16 x $1\frac{1}{4}$	4
22	1041	Flat Washer $\frac{3}{8}$	1
23	1045	Lockwasher	6
24	1007	Hex Nut $\frac{5}{16}$ -18	6
25	2614	Channel	3

