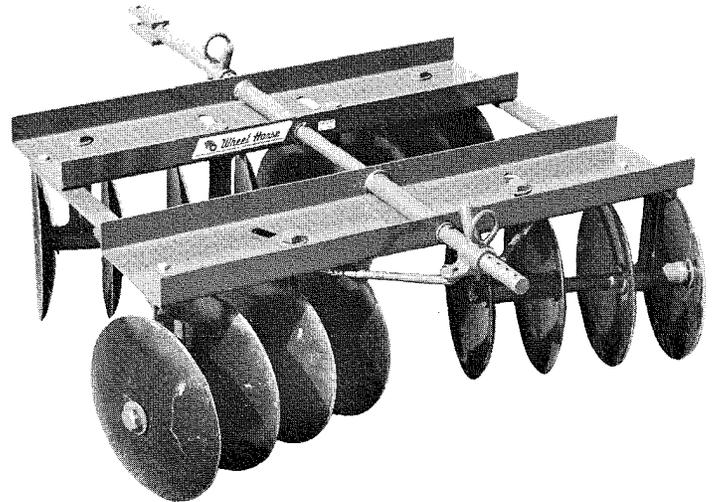
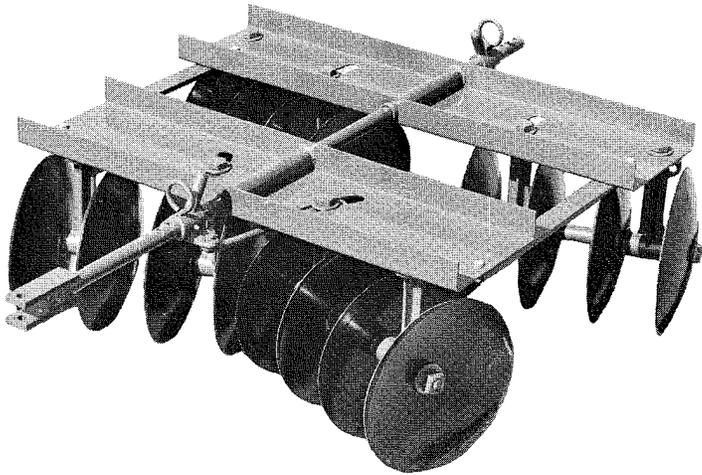


TANDEM DISC TDH-163



The TDH-163 disc is shipped complete in one carton. The channel frames are made so that extra weight may be added if so desired. It will hold 4 standard cement blocks, two in the front and two in the rear channel.

The trip lever allows the user to adjust the gangs. To do this, first pull the lock pin and pivot gangs to desired angle, replace lock pin. By adjusting the blades to the straight position, the disc may be transported. **DO NOT** attempt to lift the disc with the tractor hitch.

ASSEMBLY

1. To assemble gangs, place long $\frac{3}{4}$ x 15" bolt (Part No. 900993-4) in vise, grip it by the head.
2. Place $\frac{3}{4}$ washer next (920044-4) and disc with dish side turned up, add another washer.
3. Place the spacer tube (Part No. 2110) in the gang casting (Part No. 2104-C) and slide on bolt, longer hub first. Add washer.
4. Add another disc and washer, then add a spacer-pipe (Part No. 2109) then a washer, disc, and washer.

5. Finally, add another bearing-tube and casting, washer, disc, another washer and nut (Part No. 915668-4). Draw up tightly. Discs should turn easily.

6. Place assembled gangs under channels with dished side out and fasten with shoulder bolts (Part No. 2158) and washer (Part No. 920016-4).

7. Tie the two channel assemblies together (short channel in front) with tie bars and $\frac{3}{8}$ bolts & nuts.

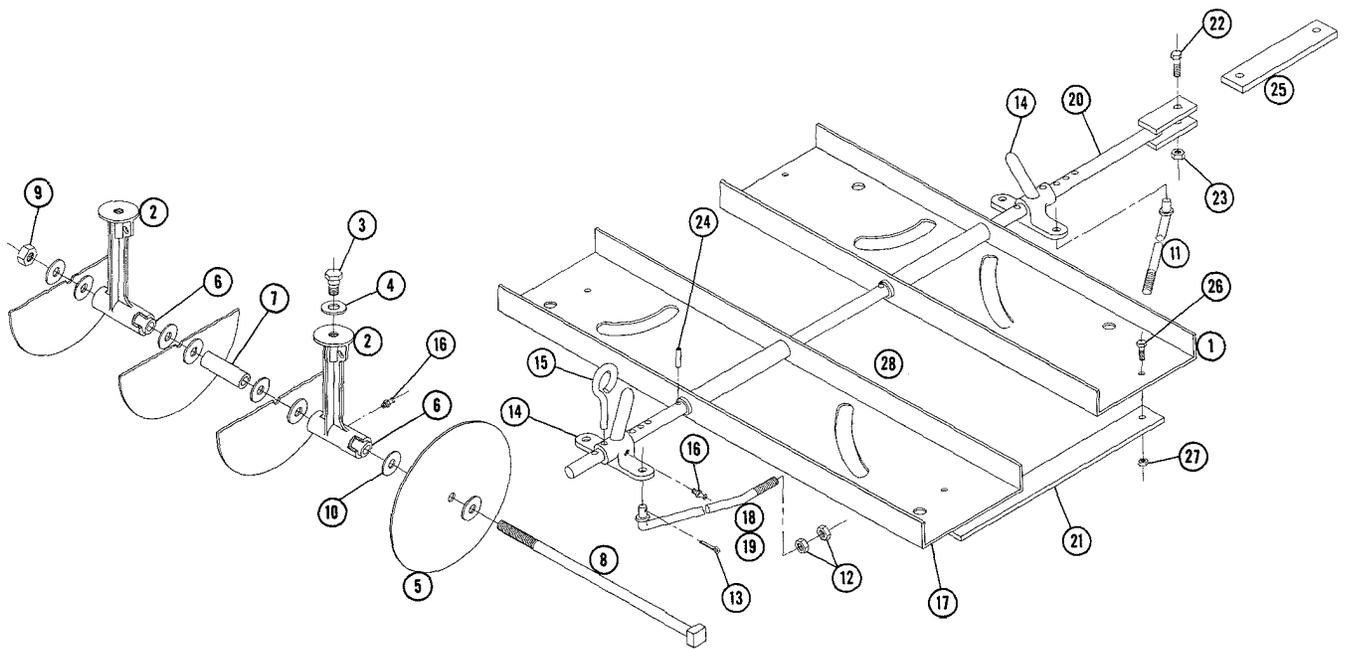
8. Slide trip lever casting with straight pivot rods (Part No. 2152) over hitch bar.

9. Slide hitch bar through channels, lock in place with roll pins, add trip lever casting with the bent pivot rods (Part Nos. 3058 and 3059).

10. Slide pivot rod ends through holes in gang casting, add $\frac{1}{2}$ " nuts, slide lock pin through hole in trip lever and hitch bar. Fasten hitch plate with the $\frac{1}{2}$ -13 x $2\frac{1}{4}$ bolt and nut.

LUBRICATION

There are ten zerks on the disc, one on each gang casting and one on each trip lever casting. These should be greased every day when in use. When disc is to be stored, it is advisable to coat blades with grease to eliminate rusting.



PARTS LIST

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	2149	Ass'y. Channel - Front	1	15	2156	Pin - Lock	2
2	2104-C	Gang	8	16	1030	Fitting - Grease 1/4-28	10
3	2158	Bolt - Shoulder 5/8-11	8	17	3055	Ass'y. Channel - Rear	1
4	920016-4	Washer - Plain 7/8 Dia. x 1 1/4 OD	8	18	3058	Rod - Pivot - R.H. (Shown)	1
5	2108	Blade - Disc	16	19	3059	Rod - Pivot - L.H. (Not Shown)	1
6	2110	Spacer - Tube	8	20	3060	Ass'y. Hitch Bar	1
7	2109	Spacer - Pipe	4	21	3057	Bar - Tie	2
8	900993-4	Bolt - Hex. 3/4-10 x 15	4	22	908062-4	Bolt - 1/2-13 x 2 1/4	1
9	915668-4	Nut 3/4-10 Elastic Stop	4	23	915115-6	Nut - Nylock 1/2-13	1
10	920044-4	Washer - Plain 3/4 Dia. x 2	32	24	933217	Roll - Pin 1/4 x 1 1/2	4
11	2152	Rod - Pivot	2	25	2512	Plate - Hitch (Tractor)	1
12	915115-6	Nut - Nylock 1/2-13	8	26	908038-4	Bolt - Hex. 3/8-16 x 1	4
13	932017-4	Cotter Pin 1/8 x 1	4	27	915113-6	Nut - Nylock 3/8-16	4
14	2151	Lever - Trip	2	28	4411	Decal	1