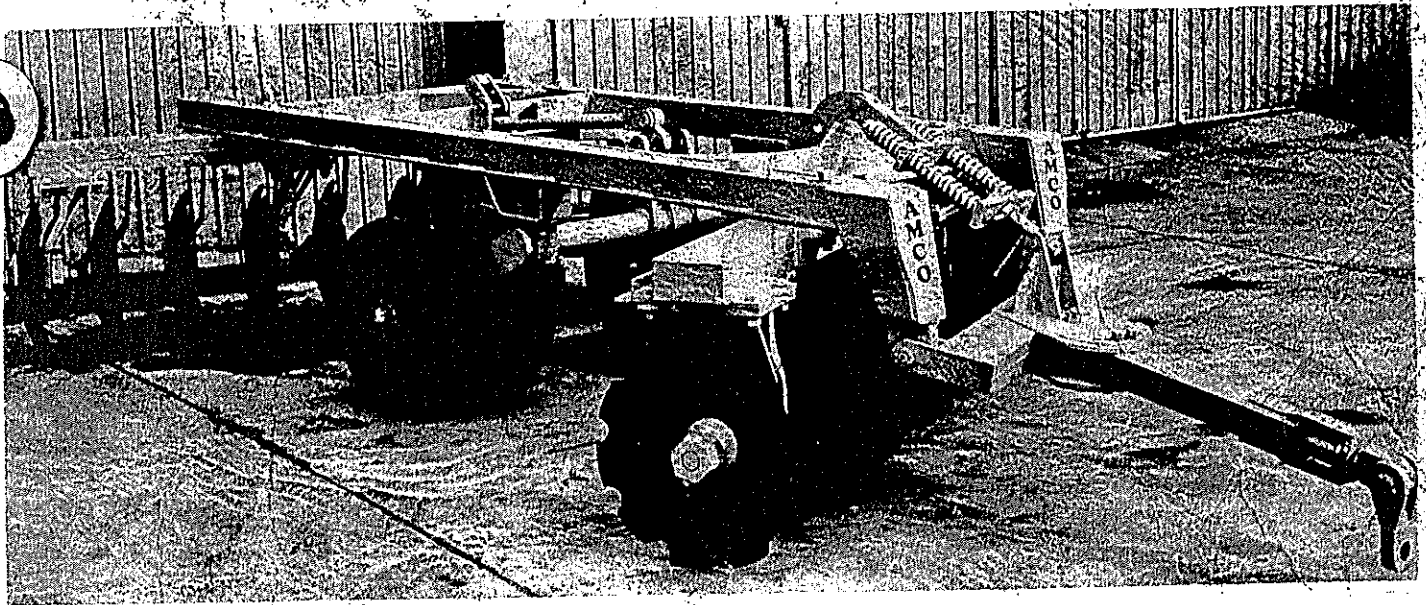


W O G

**Amco**

**PARTS CATALOG  
OPERATION — MAINTENANCE — SET-UP  
INSTRUCTIONS  
FOR  
MODEL WOG OFFSET DISK HARROW**



**Amco**

**PRODUCTS**

Portable Elevator Division, Dynamics Corporation of America  
No. 1 AMCO Drive, Yazoo City, Mississippi 39194 / 601/746-4464



## GENERAL SPECIFICATIONS

Model	Cutting Width	No. Of Disks	Disk Size & Type	Approximate D.B.H.P. Required	Approximate Weight Pounds
WOG-2030-BG	10'4"	20	30" Cutout	100-120	9600
WOG-2430-BG	12'4"	24	30" Cutout	110-130	10520
WOG-2830-BG	14'0"	28	30" Cutout	120-150	11440
WOG-3230-BG	16'3"	32	30" Cutout	150 up	12360

FRAME: Main, heavy structural steel.

GANG BOLTS: 2-1/4 Dia. Round.

BEARINGS: Gang Standard, greasable ball type.  
Wheel, automotive type roller.

DRAWBAR HITCH: Spring loaded, adjustable.

LIFT: Hydraulic depth control and wheel lift transport.

SCRAPERS: Heavy duty, adjustable.

WHEELS: (4) 16 x 5.5 with 9.00 x 16 — 8 ply tires and tubes.

### DISK BLADE OPTIONS

28 x 5/16 Cutout with 14 x 3/16 Solid Back-ups

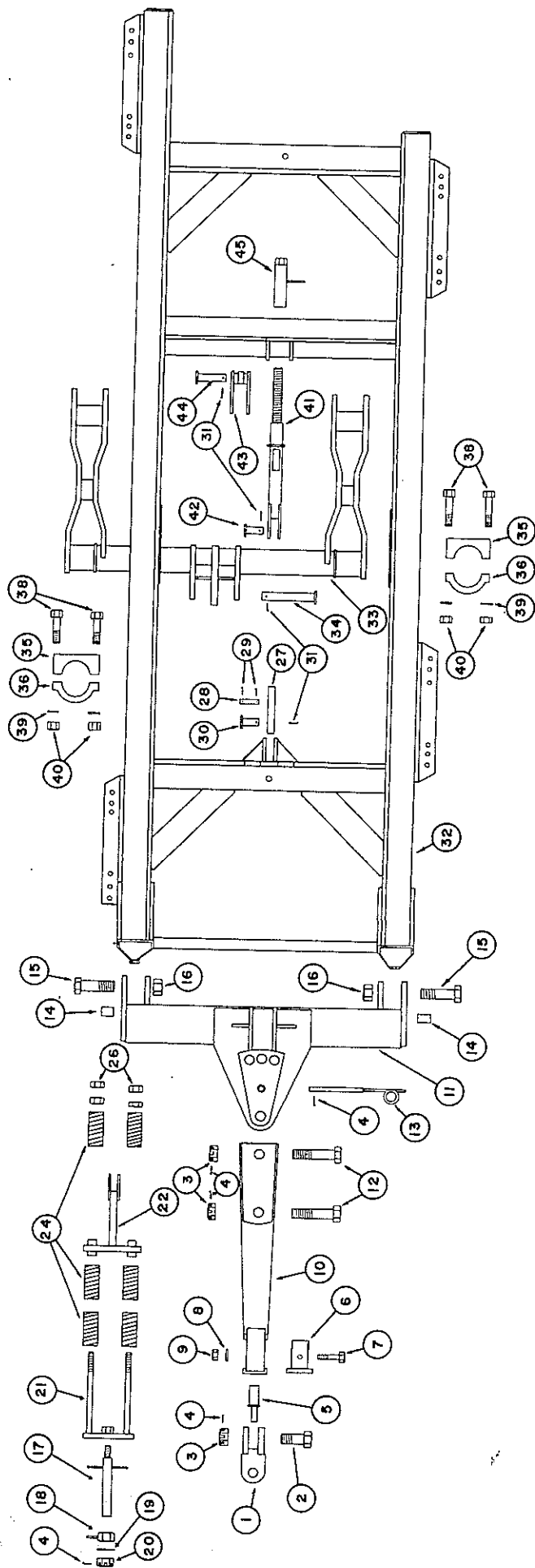
28 x 3/8 Cutout with 14 x 3/16 Solid Back-ups

30 x 3/8 Cutout with 14 x 3/16 Solid Back-ups

**IMPORTANT:** REQUIRES —

5 x 16" Cylinder and (2) 3/4" x 12' Hoses w/Quick-Tach Couplers

PRIN



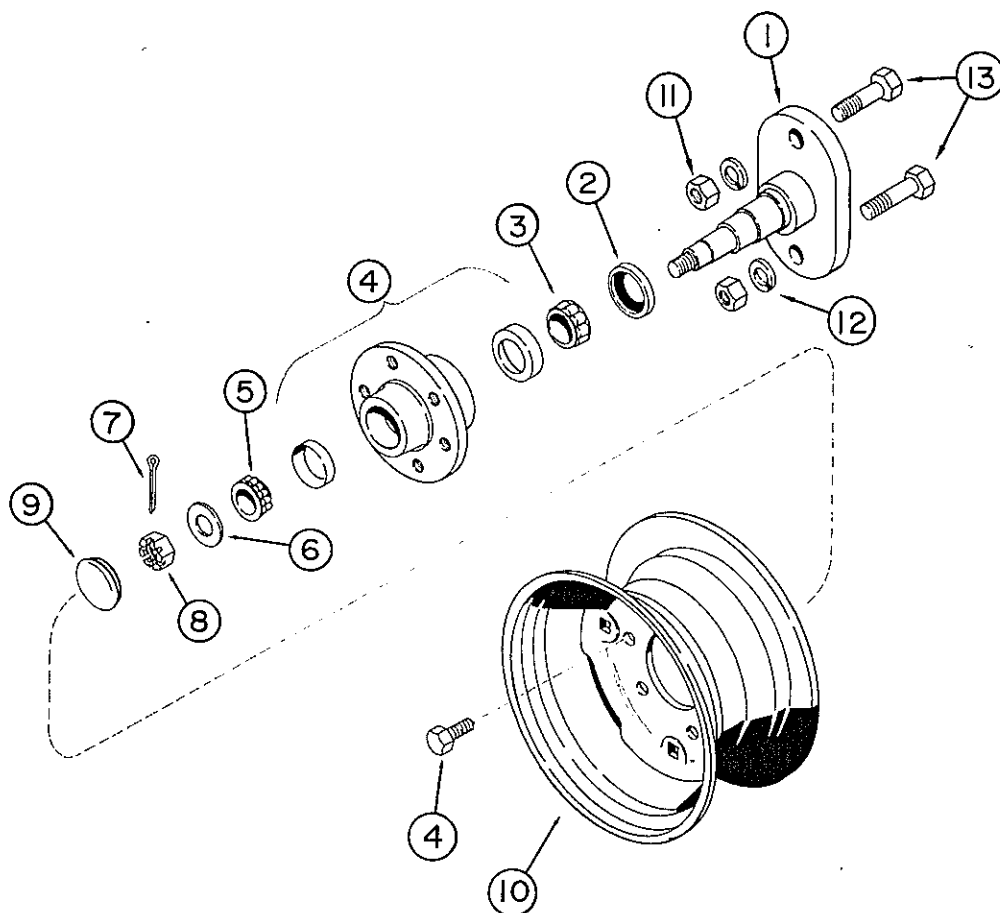
MAIN FRAME  
PULL TONGUE  
PARTS LAYOUT

# MAIN FRAME

## AMCO WOG SERIES DISK HARROW

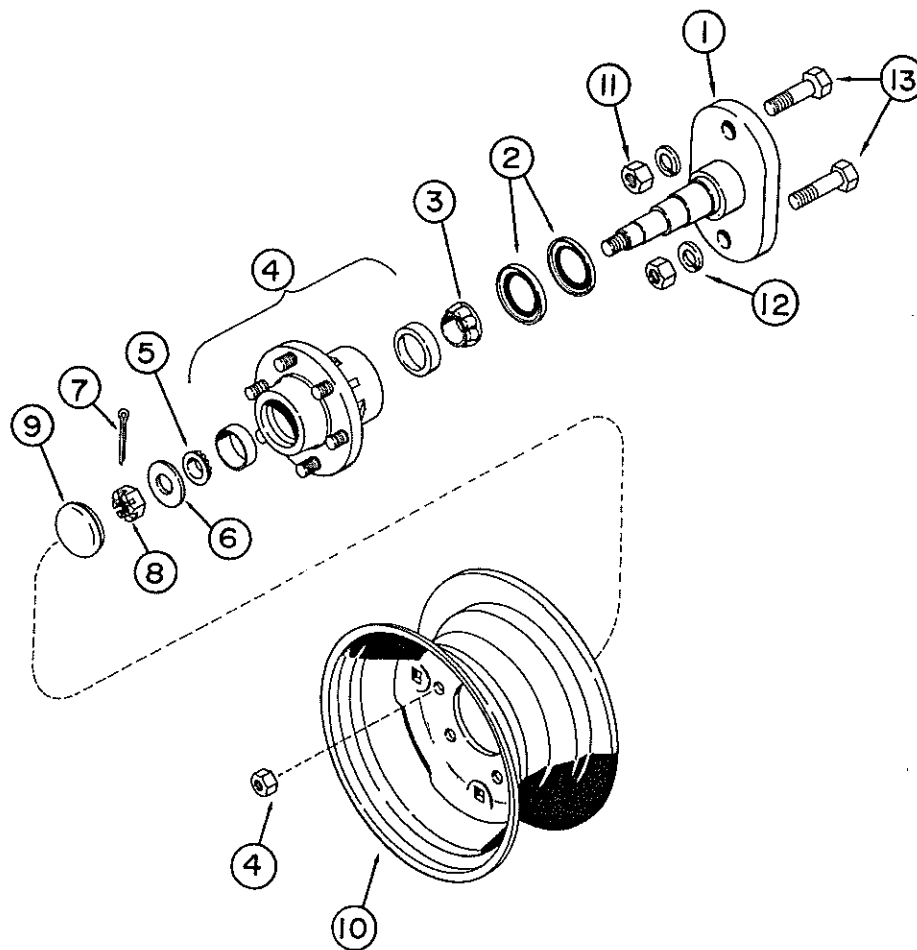
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No. Req'd.</u>
1	694	PULL CLEVIS	1
2	445	MACHINE BOLT 2 x 6-1/4 NC	1
3	10758	NUT — 2 NC Slotted	3
4	10617	COTTER PIN 1/4 x 3	6
5	642	HITCH SWIVEL	1
6	473	PULL COLLAR	1
7	10051	CAP SCREW 7/8 x 4-1/2 NF HT	1
8	10035	LOCK WASHER 7/8	1
9	10406	HEX NUT 7/8 NF PL	1
10	0312	PULL TONGUE	1
11	0197	CROSS TONGUE	1
12	0198	MACHINE BOLT 2 x 8-5/8	2
13	0207	Hose Holder	1
14	8552	BUSHING	2
15	0199	MACHINE BOLT 2 x 7 NC	2
16	10758	NUT 2" Slotted NC	2
17	338	STABILIZER ROD	1
18	337	ADJUSTING NUT	1
19	10230	CUT WASHER 1-1/2	2
20	10226	NUT 1-2 NF Slotted	1
21	090	SPRING GUIDE STABILIZER	1
22	091	YOKE STABILIZER — Spring Stop	1
23	10721	GREASE FITTING 1/4 28 NF THD	3
24	10460	SPRING	6
25	0620	SPRING GUIDE	6
26	10053	NUT (Jam) 1-3/8 NC	4
27	8311	HYDRAULIC CYLINDER BRACKET	1
28	6388	RETAINER PIN	1
29	10087	COTTER PIN 1/4 x 2	2
30	092	RETAINER PIN	1
31	10029	COTTER PIN 3/8 x 3	4
32	093	MAIN FRAME	1
33	098	ROCKSHAFT	1
34	099	PIN — Rockshaft	1
35	3430	PILLOW BLOCK BASE	2
36	3431	PILLOW BLOCK CAP	2
37	10321	GREASE FITTING	2
38	11037	MACHINE BOLT 1-1/4 x 8 NC	4
39	10192	LOCK WASHER 1-1/4	4
40	10149	HEX NUT 1-1/4 NC	4
41	0100	TRANSPORT BAR	1
42	0101	RETAINER PIN	1
43	0102	TRANSPORT LATCH	1
44	0103	RETAINER PIN	1
45	0104	DEPTH ADJUSTING NUT	1

# WOG HUB & SPINDLE Used Before Serial No. 518



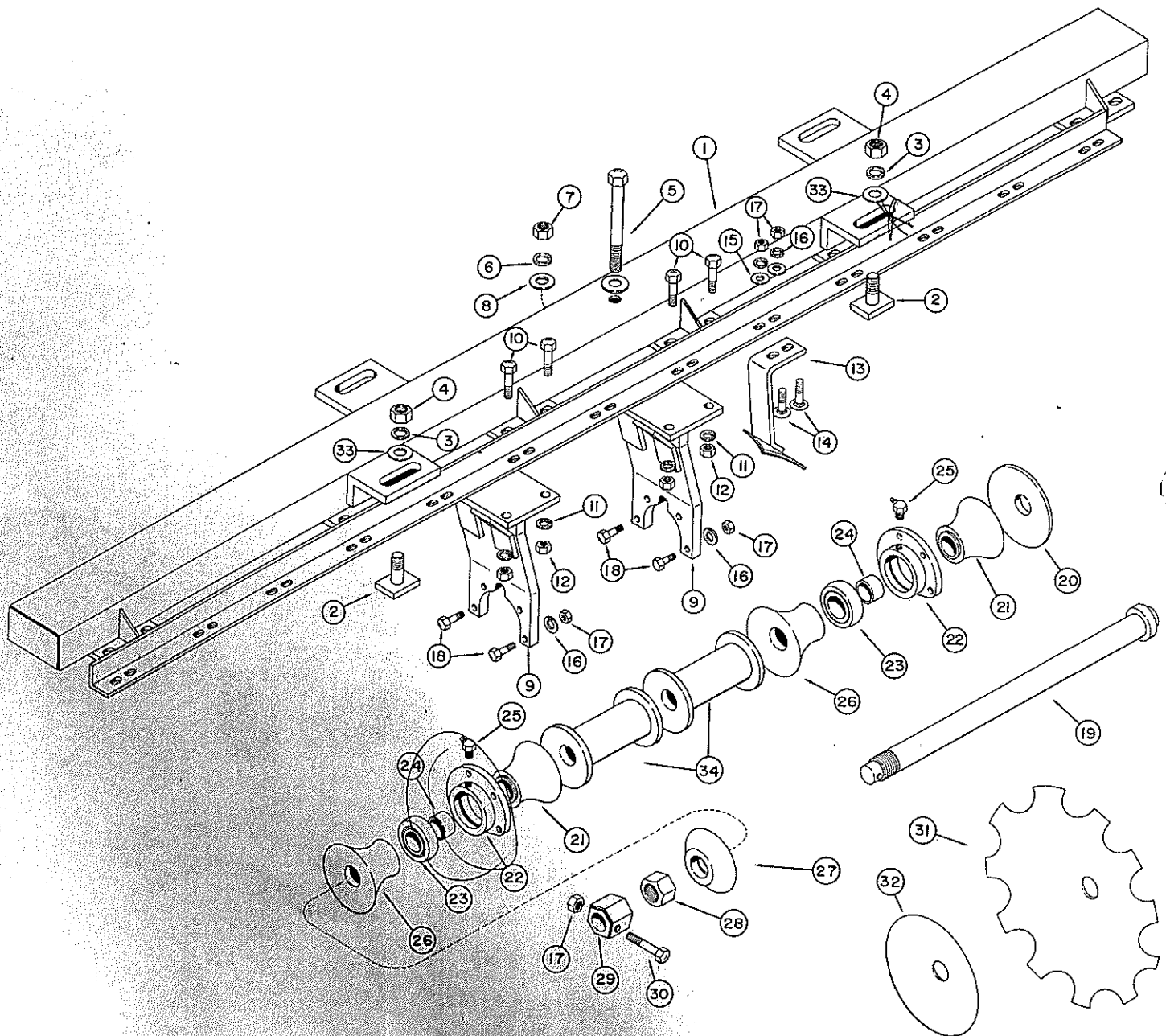
Ref. No.	Part No.	Description	No. Req'd.
1	1287	WHEEL SUPPORT	4
2	10467	SEAL	4
3	10469	CONE — Inner Timken #25590	4
4	10688	HUB — W/2 Cups 7 6 Lug Bolts	4
4	10468	CUP — Inner Timken #25520	4
4	10472	CUP — Outer Timken #25821	4
4	10689	HUB BOLT	24
5	10473	CONE — Outer Timken #25877	4
6	10263	WASHER 7/8	4
7	10291	COTTER PIN 5/32 x 1-1/4	4
8	10264	NUT 7/8 NF Slotted	4
9	10474	HUB CAP	4
10	10839	WHEEL 16 x 5.5	4
11	11026	HEX NUT 1 NC	8
12	11027	LOCK WASHER 1	8
13	11025	MACHINE BOLT 1 x 3 NC	8

# WOG HUB & SPINDLE Used After Serial No. 518



Ref. No.	Part No.	Description	No. Reqd.
1	1287	WHEEL SUPPORT	4
2	10467	SEAL	8
3	10469	CONE — Inner Timken #25590	4
4	10463-1	HUB — w/2 Cups and 6 Lug Bolts	4
4	10468	CUP — Inner Timken #25520	4
4	10472	CUP — Outer Timken #25821	4
4	10470	LUG BOLT	24
4	10471	LUG NUT	24
5	10473	CONE — Outer Timken #25877	4
6	10263	WASHER 7/8	4
7	10291	COTTER PIN 5/32 x 1-1/4	4
8	10264	NUT 7/8 NF Slotted	4
9	10474	HUB CAP	4
10	10839	WHEEL 16 x 5.5	4
11	11026	HEX NUT 1 NC	8
12	11027	LOCK WASHER 1	8
13	11025	MACHINE BOLT 1 x 3 NC	8

# GANG AND FRAME — Front and Rear All Models





# WOG GANG FRAME

Ref. No.	Part No.	Description	No. Reqd.			
			20 Blade	24 Blade	28 Blade	32 Blade
1	0606	GANG FRAME — Front	1	—	—	—
1	0602	GANG FRAME — Front	—	1	—	—
1	0218	GANG FRAME — Front	—	—	1	—
1	0220	GANG FRAME — Front	—	—	—	1
1	0607	GANG FRAME — Rear	1	—	—	—
1	0601	GANG FRONT — Rear	—	1	—	—
1	0219	GANG FRAME — Rear	—	—	1	—
1	0221	GANG FRAME — Rear	—	—	—	1
2	094	ANGLE LOCK BRACKET	8	8	8	8
3	10673	LOCK WASHER 1-3/8	8	8	8	8
4	10151	HEX NUT 1-3/8 NC	8	8	8	8
5	0109	MACHINE BOLT	2	2	2	2
6	10192	LOCK WASHER 1-1/4	2	2	2	2
7	10149	HEX NUT 1-1/4 NC	2	2	2	2
8	10077	CUT WASHER 1-1/4	4	4	4	4
9	1826	BEARING RISER	8	12	12	16
10	11025	MACHINE BOLT 1 x 3 NC	32	48	48	64
11	11027	LOCK WASHER 1	32	48	48	64
12	11026	HEX NUT 1 NC	32	48	48	64
13	1829	SCRAPER — Front	9	11	13	15
13	1830	SCRAPER — Rear	9	11	13	15
14	10129	CARRIAGE BOLT 5/8 x 2 NC	36	44	52	60
15	10059	CUT WASHER 5/8	36	44	52	60
16	10010	LOCK WASHER 5/8	72	98	106	132
17	11029	HEX NUT 5/8 NC	72	98	106	132
18	10039	CAP SCREW 5/8 x 3 USS	32	48	48	64
19	1846	GANG BOLT — 4 Blades	—	6	2	8
19	1833	GANG BOLT — 5 Blade	4	—	4	—
20	7356	BUMPER WASHER	4	6	6	8
21	7216	END BELL — Small	8	12	12	16
22	G7215	BEARING HOUSING (1)	8	12	12	16
23	10732	BEARING (GW214PPB2)(2)	8	12	12	16
24	7597	BUSHING	8	12	12	16
25	10011	GREASE FITTING	8	12	12	16
26	7217	END BELL — Large	8	12	12	16
27	7357	END GANG WASHER	4	6	6	8
28	10723	HEX NUT 2-1/4 NF	4	6	6	8
29	1831	NUT LOCK	4	6	6	8
30	10009	MACHINE BOLT 5/8 x 5 USS	4	6	6	8
31	7365	BLADE — 30" C.O. 3/8	20	24	28	32
31	3277	BLADE — 30" C.O. 5/16	20	24	28	32
31	6846	BLADE — 28" C.O. 5/16	20	24	28	32
31	3248	BLADE — 28" C.O. 3/8	20	24	28	32
32	6847	BLADE — 14" Plain 3/16	20	24	28	32
33	10872	CUT WASHER 1-3/8 PL	24	24	24	24
34	1832	SPACER SPOOL	8	6	14	14



# OPERATING INSTRUCTIONS

Your new AMCO WOG Series Offset Disk Harrow has been set-up, inspected, and adjusted by your dealer before delivery. However, before using the new harrow, or one that has been stored, check to make certain that all nuts and bolts are tight, cotter pins spread and that the harrow has been lubricated.

This instruction manual should be carefully read to enable the operator to care for and properly operate the harrow.

The right and left hand sides of the harrow are determined by standing at the rear of the harrow and facing the direction of travel.

**TRACTOR DRAWBAR** — It is suggested that the tractor drawbar be set so it is free to swing when disking. This will prevent side draft, making operation of the harrow easier. The tractor drawbar will pull somewhat to the left side during operation. This is normal with an offset harrow.

**HARROW HITCH** — The harrow pull tongue can be offset right or left by using the set of holes in the cross tongue plates to obtain the desired offset.

**SPRING LOADED STABILIZER** — Penetration of front and rear gangs may vary when using the wheels for depth gauging. The spring loaded stabilizer may be adjusted to level the harrow front to rear. In extremely hard ground it may be necessary to shorten the stabilizer to force the front, or penetrating gang into the ground. In normal conditions, the stabilizer should be adjusted so that the disk harrow is level, front to rear, while disking. The stabilizer may also be adjusted to level the unit for transport.

The type of work to be done by the harrow will determine the type of adjustments to be made.

Observe the harrow while it is working and check if the dead furrow is being filled and the ground left level. If not, an adjustment will have to be made.

Changing the angle between the gangs will effect the penetration of the harrow. The wider the angle, the deeper the harrow will cut.

There are many factors which affect the way in which the soil will flow. Some factors are: moisture content of the soil, type of soil, speed of the tractor, depth of penetration, and the working angle between the gangs. If any one of the conditions change, there will be a change in the resulting disking job.

Change the angle one hole at a time when making an adjustment.

To check the quality of disking being done, make one complete round and pass the points where the observation was made.

**DISK GANG ANGLE** — The gangs may be set at various cutting angles depending on soil conditions and job to be done. When conditions are near normal, a setting somewhere between the two extremes is advisable for best operation. Use the gang angle set holes on the side of the main frame to select desired angles.

## OPERATING INSTRUCTIONS

**OFFSETTING THE HARROW** — The harrow drawbar may be adjusted so the left tractor wheel can be run in the furrow if that is desirable, or the left hand tractor wheel may be operated to the right of this furrow, on uncut ground, by making a compensating adjustment on the harrow drawbar. The fields may be laid out so right turns are made by lifting the harrow out of the ground before making the turn.

When the harrow is adjusted so it disks in an extreme left offset position, the front gang will assume a much greater angle (with respect to forward travel) than the rear gang. The rear gang will have a relatively small angle with respect to forward travel.

The small angle of the rear gang makes it more difficult to fill the dead furrow, but the condition can be corrected by using the rear gang adjustment.

In general, when making a left offset, attempt to keep the amount of offset as small as possible.

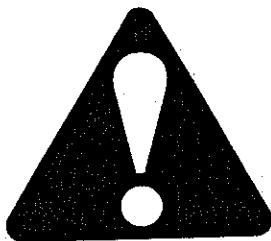
The following points are important to remember when offsetting the harrow:

Offsetting to the left increases the angle of the front gang and decreases the angle of the rear gang.

Offsetting to the right decreases the angle of the front gang and increases the angle of the rear gang.

**SCRAPER ADJUSTMENT** — Adjust the scrapers to run approximately 1/8" from the disk blades by the use of the slotted holes in the scraper bars. When more adjustment is needed the entire scraper bar assembly may be moved laterally in the scraper bar brackets.

When transporting the disk harrow, always lock it in transport position. If the hydraulic cylinder is to be removed from the disk harrow, the transport lock should be installed before attempting to remove the cylinder.



**CAUTION:** When transporting machinery over public roads, comply with your local and state regulations regarding length, width, and lighting. Your AMCO dealer has accessory lights and devices available which can be used to warn operators of other vehicles. The use of the proper warning devices can help save lives — *if* you use them.

Do not transport the disk harrow over 20 miles per hour on a smooth surface road. Reduce speed when traveling over rough ground. Always pin the tractor drawbar when transporting on road or highway.