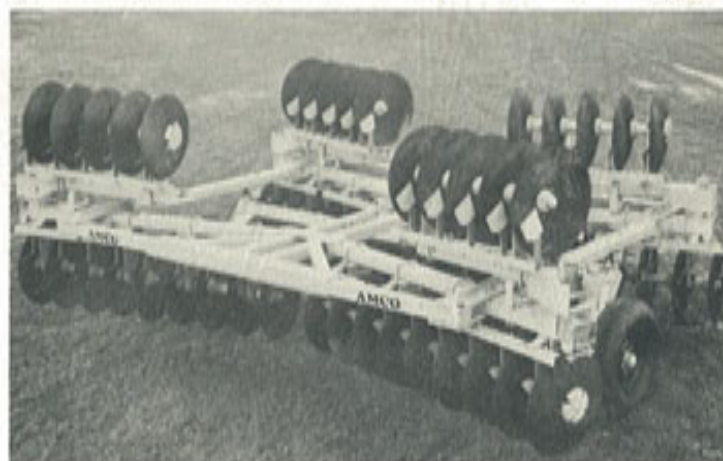
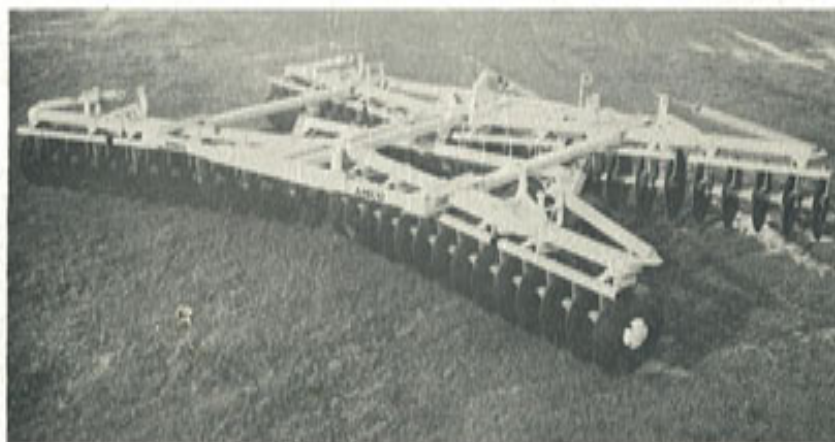




PARTS CATALOG
OPERATION—MAINTENANCE—SET-UP
INSTRUCTIONS

MODELS WTD7 AND WTD8
TANDEM DISK HARROW



PRODUCTS

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



TO THE PURCHASER:

The care you give your new AMCO Tandem Disk Harrow will greatly determine the satisfaction and service life you will obtain from it. By observing the instructions and suggestions in this manual, your Harrow will serve you well for many years.

As an Authorized AMCO Dealer, we stock Genuine AMCO Parts, which are manufactured with the same precision and skill as the original equipment. Our factory-trained staff is kept fully informed of the most efficient methods of servicing AMCO equipment and is ready and able to assist you.

If you should require additional aid or information, contact us.

YOUR AUTHORIZED AMCO DEALER



Look for this symbol to point out important safety precautions. It means — ATTENTION! Become alert! Your safety is involved.

To insure efficient and prompt service, please provide the model number and serial number of your AMCO Harrow in all correspondence or contacts.

GENERAL SPECIFICATIONS

Model	Cutting Width	No. of Disks	Disk Size & Type	Approximate D.B.H.P. Required	Approximate Weight Pounds
WTD7-3622-PBG	13'6"	36	22" Plain	65-75	4325
WTD7-5222-PBG	19'6"	52	22" Plain	80-100	5620
WTD7-5622-PBG	21'0"	56	22" Plain	90-110	5840
WTD8-3622-PBG	13'6"	36	22" Plain	65-75	4445
WTD8-5222-PBG	19'6"	52	22" Plain	80-100	5740
WTD8-5622-PBG	21'0"	56	22" Plain	90-110	5960

FRAME: Main, Heavy Structural Steel

GANG BOLTS: 1-1/8" Square

BEARINGS: Gang 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) 15 x 6 - 6 Hole for but Less 9.5L x 15 Tires and Tubes

DISK BLADE OPTIONS

22 x 7 Ga. Solid

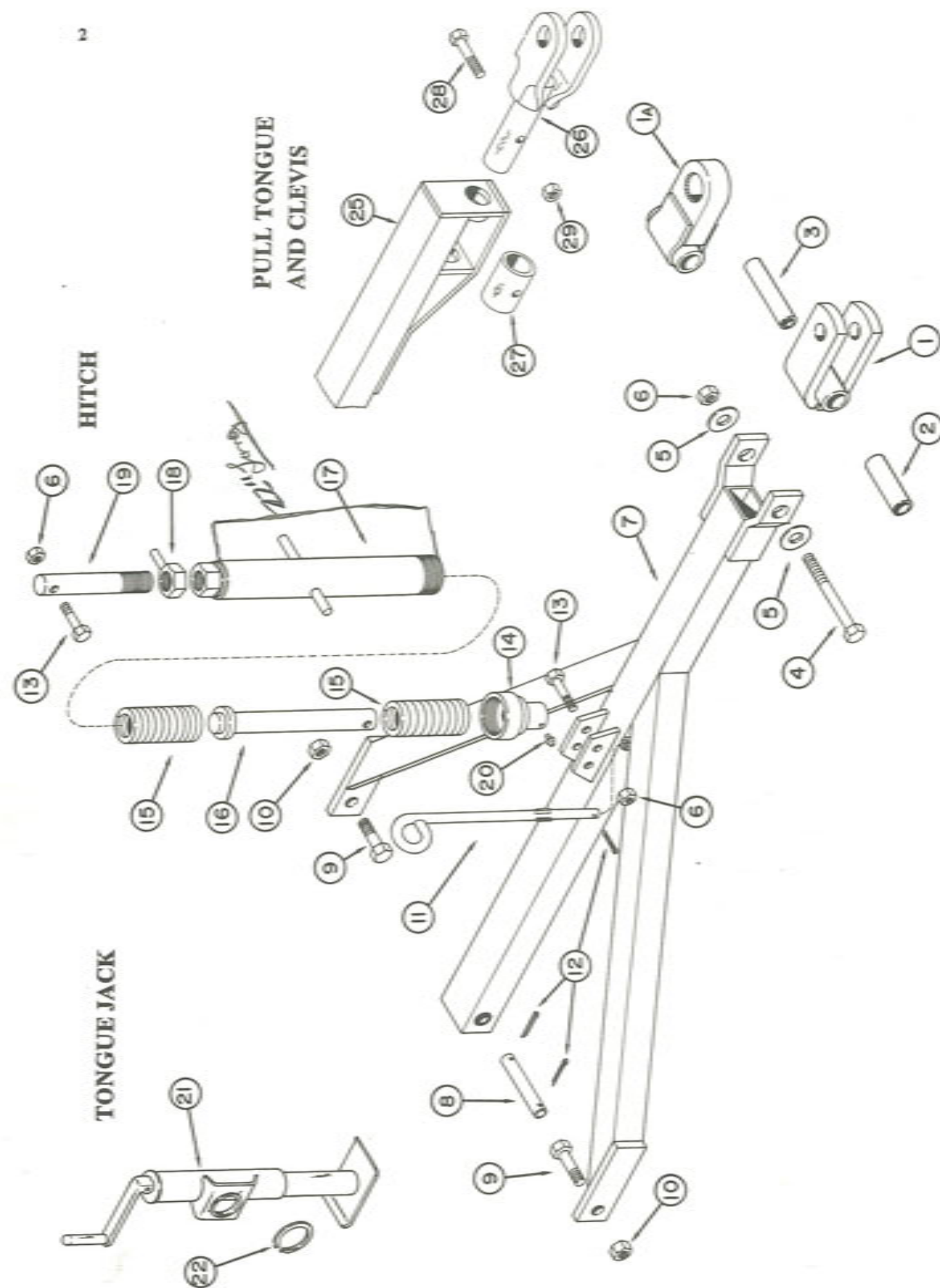
22 x 7 Ga. C.O.

20 x 7 Ga. Solid

20 x 7 Ga. C.O.

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AMCO WTD7 & WTD8 SERIES DISK HARROW HITCH

Ref. No.	Part No.	Description	No. Req'd
1	0434	Clevis — Pull	1
1A	0550	Clevis — Pull (optional)	1
2	9204	Bushing — Clevis 1-3/4 Dia. x 5-7/8 Long	1
3	9205	Bushing — Clevis 1-5/16 Dia. x 7-1/2 Long	1
4	10865	Bolt — Machine 3/4 x 9 NC, PL	1
5	10866	Washer — 3/4 PL	2
6	10300	Nut — Lock 3/4 NC, PL	3
7	0608	Tongue — Pull	1
8	5396	Pin — Pivot 1 Dia. x 6-5/8 Long	1
9	10373	Bolt — Hex 1 x 3-1/2 NC	2
10	10868	Nut — Lock 1 NC	2
11	100061	Holder — Hose	1
12	10075	Pin — Cotter 1/4 x 1-1/2	3
13	10320	Bolt — Machine 3/4 x 3-1/2 NC, PL	2
14	1166	Cap	1
15	10460	Spring — 3 Dia. x 7 Long	2
16	1167	Rod — Piston	1
17	1479	Housing — Spring	1
18	1168	Nut — Adjusting	1
19	5403	Rod — Stud Threaded 1-1/2 Dia. x 14 Long	1
20	11081	Fitting — Grease	1

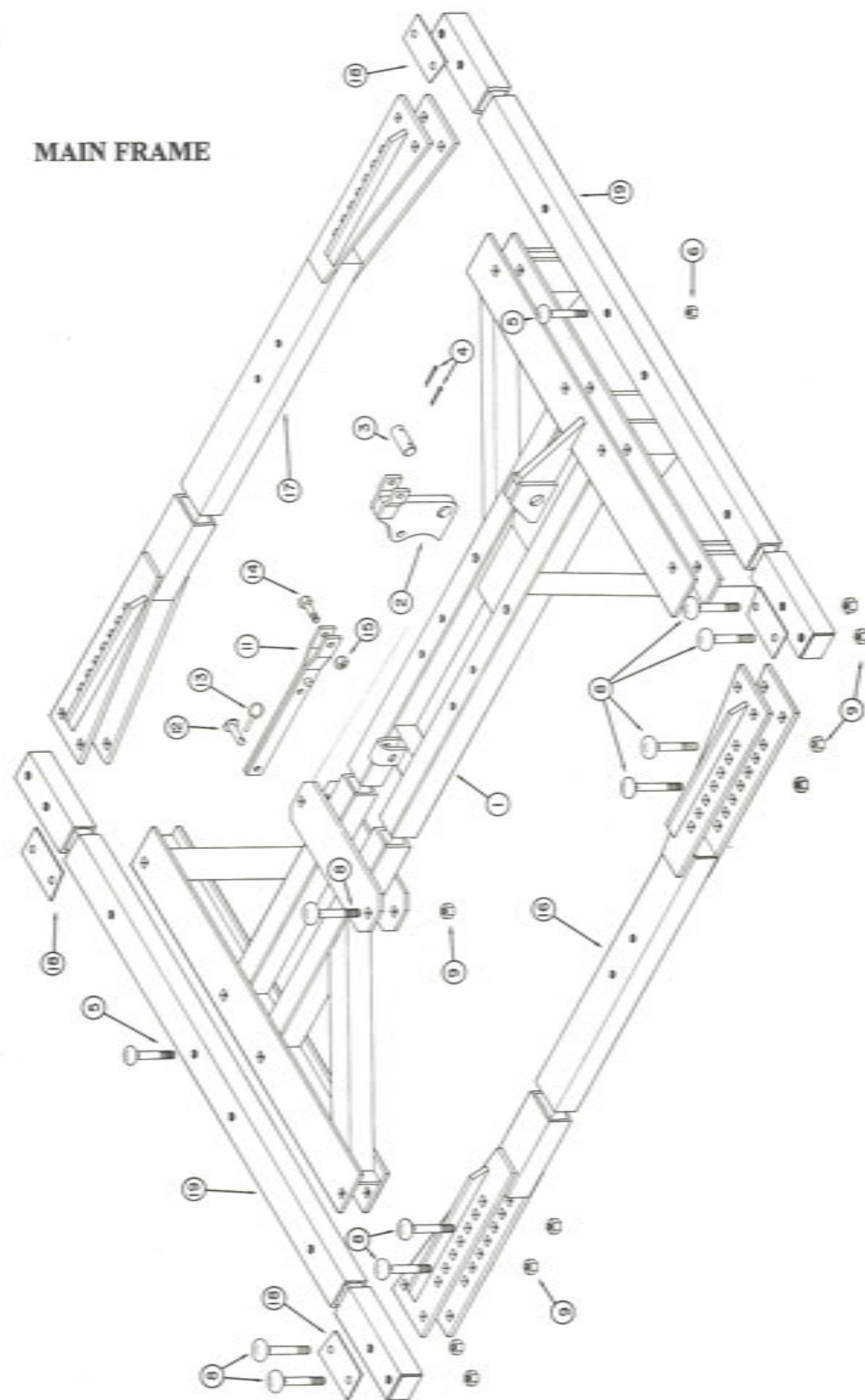
TONGUE JACK [Optional]

21	10883	Jack	1
22	10912	Ring — Snap	1

AMCO WTD7 AND WTD8 SERIES DISK HARROW PULL TONGUE AND CLEVIS [Used Before Serial No. 5325]

25	1468	Tongue — Pull	1
26	1459	Swivel — Hitch	1
27	6423	Collar — Pull 3 Dia. x 4-3/8 Long	1
28	10113	Bolt — Hex 3/4 x 4 NC, PL, GR5	1
29	10300	Nut — Lock 3/4 - NC, PL	1

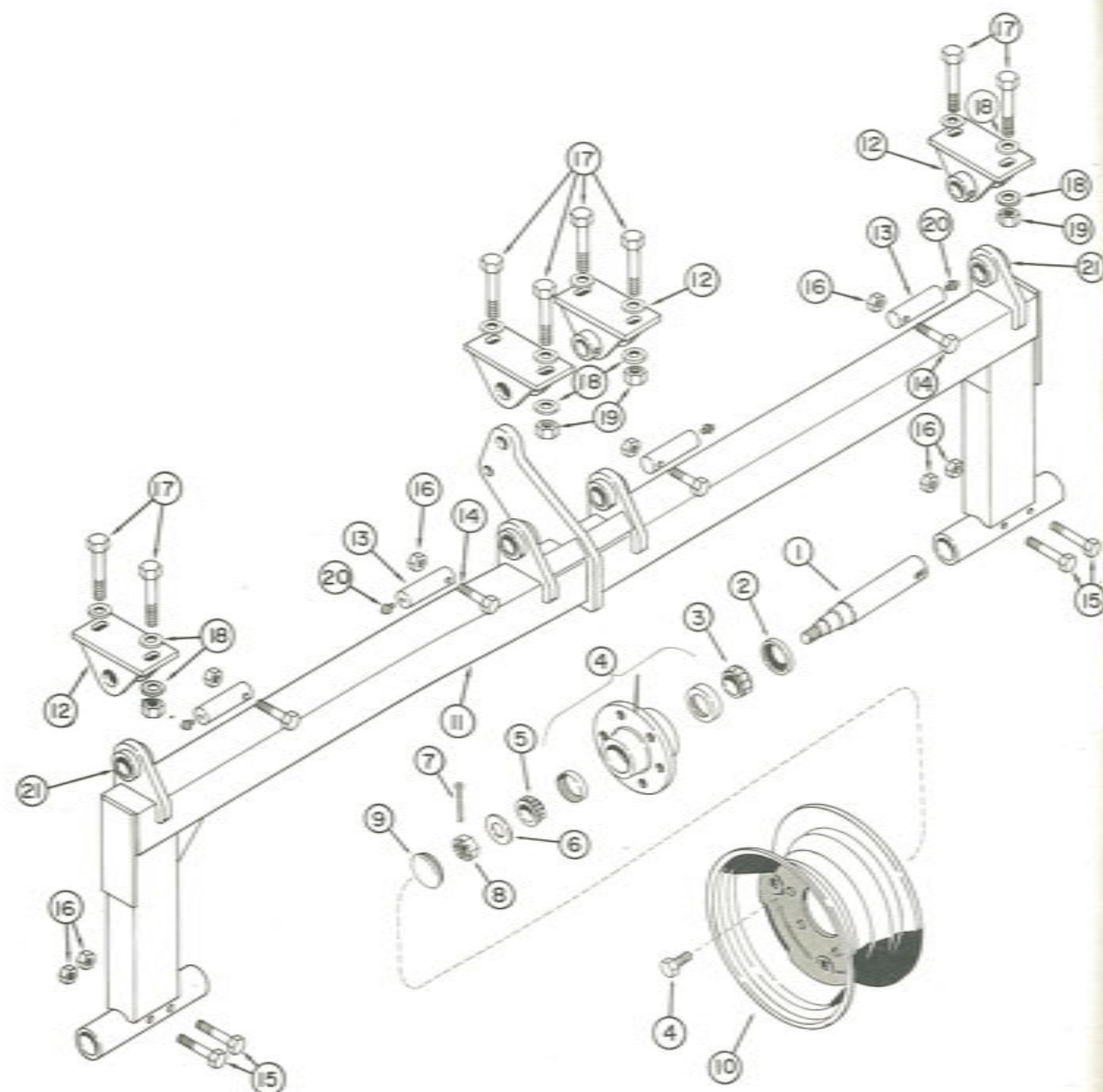
MAIN FRAME

AMCO WTD7 AND WTD8 SERIES DISK HARROW
MAIN FRAME

Ref. No.	Part No.	Description	No. Req'd
1	1480	Frame — Main	1
2	1460	Bracket — Hydraulic Cylinder	1
3	6388	Pin — Pivot 1-1/2 Dia. x 3-1/2 Long	1
4	10087	Pin — Cotter 1/4 x 2	2
5	10130	Bolt — Carriage 5/8 x 5 NC, PL	8
6	10299	Nut — Lock 5/8 NC, PL	8
8	10370	Bolt — Carriage 7/8 x 5-1/2 NC, PL	18
9	10396	Nut — Lock 7/8 NC, PL	18
11	1443	Bar — Transport	1
12	0388	Pin — Transport 3/4 Dia.	1
13	10317	Pin — Klik 1/4	1
14	10727	Bolt — Machine 3/4 x 3 NC, PL, GR5	1
15	10300	Nut — Lock 3/4 NC, PL	1
16	1483	Bar — Side RH	1
17	1484	Bar — Side LH	1
18	5429	Shim — 1/8 x 4 - 6-3/4 Long	4
19	1481	Bar — Front or Rear - 3 x 4 x 124	2

ROCKSHAFT

[After Serial No. 6000]



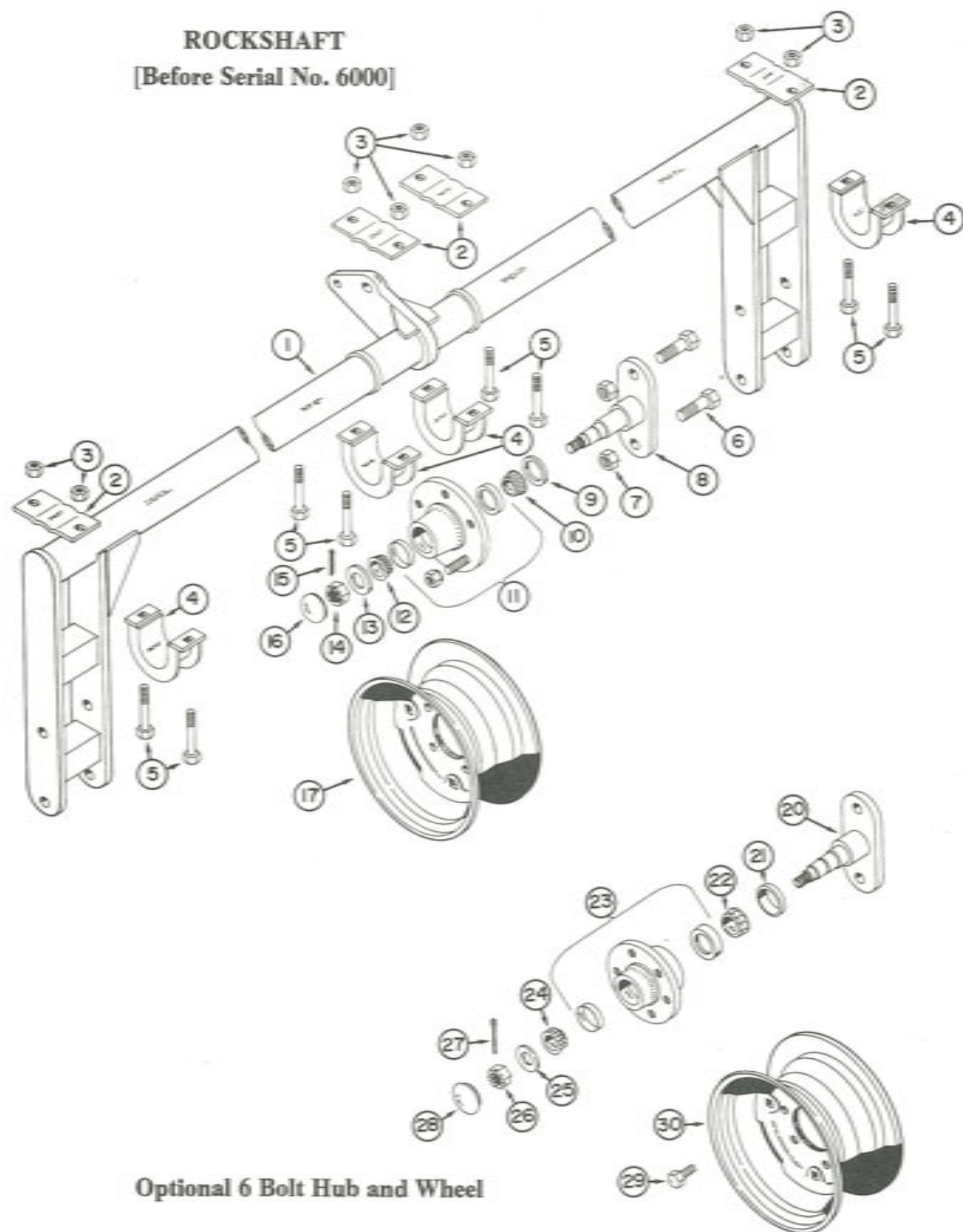
AMCO WTD7 AND WTD8 SERIES DISK HARROW

ROCKSHAFT

[After Serial No. 6000]

Ref. No.	Part No.	Description	No. Req'd
1	10880	Spindle — 1-15/16 Dia.	4
2	10256	Seal	4
3	10258	Cone — Inner Timken 342A	4
4	10254	Hub — w/2 Cups and 6 Lug Bolts	4
4	10257	Cup — Inner Timken 332	4
4	10261	Cup — Inner Timken 14276	4
4	10259	Bolt — Lug 1/2 x 1 SAE	24
5	10262	Cone — Outer Timken 14137A	4
6	10263	Washer — 7/8	4
7	10291	Pin — Cotter 5/32 x 1-1/4	4
8	10264	Nut — 7/8 NF Slotted	4
9	10242	Cap — Hub	4
10	10265	Wheel — 15 x 6-6 Hole	4
11	0557	Rockshaft (Includes 4 #9270 Bushings)	1
12	0553	Base — Rockshaft Bearing	4
13	9209	Pin — Retainer 1-1/2 Dia. x 5 Long	4
14	10765	Bolt — Machine 3/8 x 2-1/2 NC, PL, GR5	4
15	10773	Bolt — Machine 3/8 x 3-1/2 NC	4
16	10509	Nut — Lock 3/8 NC, PL	8
17	10106	Bolt — Machine 5/8 x 4-1/2 NC, PL, GR5	8
18	10059	Washer — 5/8 PL	16
19	10299	Nut — Lock 5/8 NC, PL	8
20	10721	Fitting — Grease	8
21	9270	Bushing — 1-3/4 Dia. x 2 Long (not shown)	4

ROCKSHAFT [Before Serial No. 6000]



Optional 6 Bolt Hub and Wheel

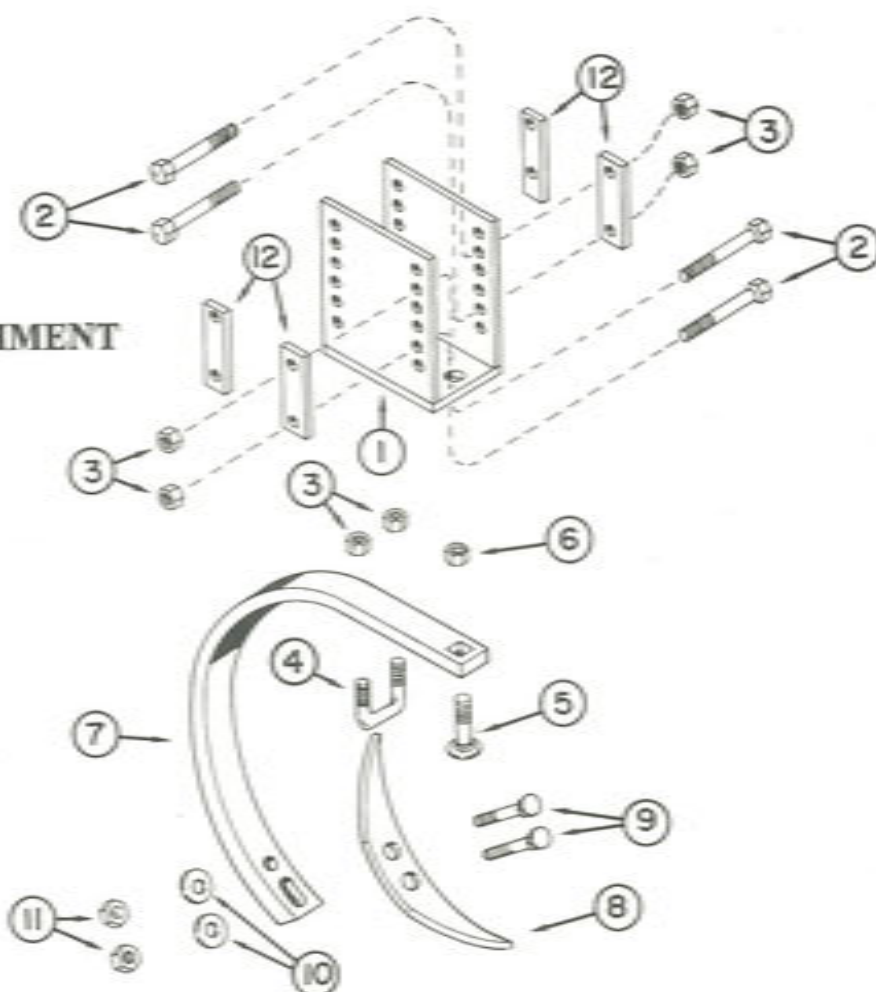
AMCO WTD7 AND WTD8 SERIES DISK HARROW **ROCKSHAFT** [Before Serial No. 6000]

Ref. No.	Part No.	Description	No. Req'd
1	1485	Rockshaft	1
2	6481	Base — Rockshaft Bearing	4
3	10299	Nut — Lock 5/8 NC, PL	8
4	1486	Strap — Rockshaft Bearing	4
4	11081	Grease Fitting 5/16 Drive In	4
5	10106	Bolt — Machine 5/8 x 4-1/2 NC, PL, GR5	8
6	11025	Bolt — Hex 1 x 3 NC, PL	8
7	10868	Nut — Lock 1 NC, PL	8
8	1475	Support — Wheel	4
9	11017	Seal — Grease	4
10	10353	Cone — Inner	4
11	10354	Hub — w/2 Cups and 5 Lug Bolts, Nuts	4
11	10352	Cup — Inner	4
11	10293	Cup — Outer	4
11	10354	Bolt — Hub 1/2 x 1-5/8 SAE	20
11	11046	Nut — Hub Bolt 1/2 SAE	20
12	10295	Cone — Outer	4
13	10263	Washer — Spindle 7/8	4
14	10264	Nut — Spindle 7/8 NF	4
15	10291	Pin — Cotter 5/32 x 1-1/4	4
16	10356	Cap — Hub	4
17	10025	Wheel — 15 x 5 - 5 Hole	4

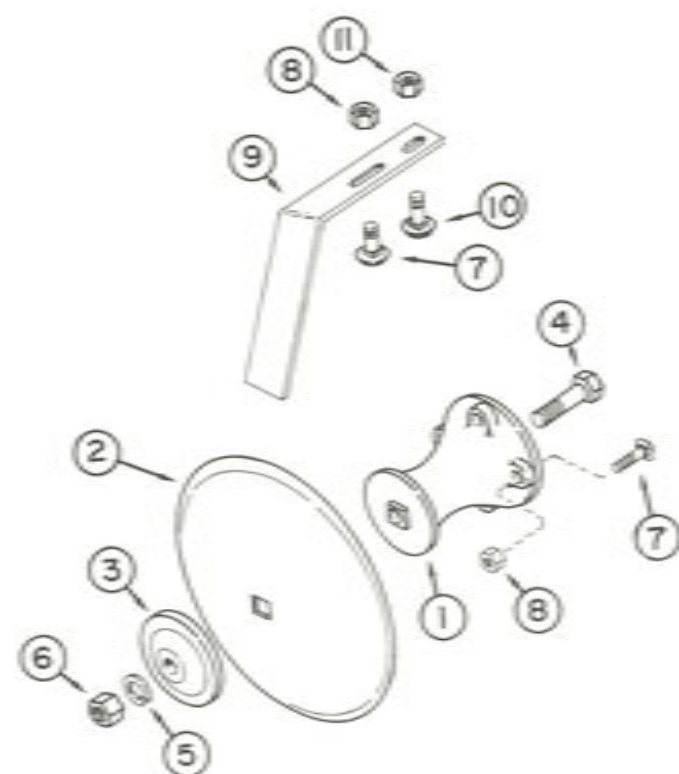
OPTIONAL 6 BOLT HUB AND WHEEL

20	1175	Support — Wheel	4
21	10256	Seal — Grease	4
22	10258	Cone — Inner Timken 324A	4
23	10254	Hub — w/2 Cups and 6 Lug Bolts	4
23	10257	Cup — Inner Timken 332	4
23	10261	Cup — Outer Timken 14276	4
29	10259	Bolt — Hub 1/2 x 1 SAE	4
24	10262	Cone — Outer Timken 14137A	4
25	10263	Washer — Spindle 7/8	4
26	10264	Nut — Spindle 7/8 NF	4
27	10291	Pin — Cotter 5/32 x 1-1/4	4
28	10242	Cap — Hub	4
29	10259	Bolt — Hub 1/2 x 1 SAE	24
30	10265	Wheel — 15 x 6 - 6 Hole	4

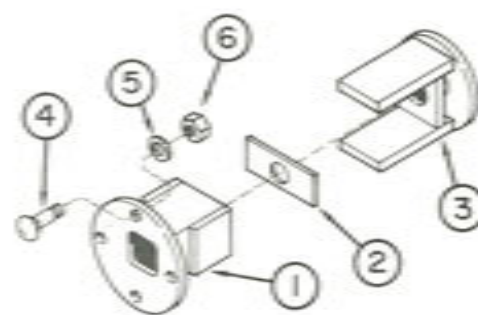
CENTER TOOTH ATTACHMENT



FEATHERING BLADE



GANG DRIVERS

AMCO WTD7 AND WTD8 SERIES DISK HARROW
CENTER TOOTH ATTACHMENT

Ref. No.	Part No.	Description	No. Req'd
1	0729	Buster — Balk	1
2	10666	Bolt — Machine 5/8 x 5 NC, PL, GR5	8
3	10299	Nut — Lock 5/8 NC, PL	10
4	100087	Bolt — "U" 5/8 Dia.	1
5	10389	Bolt — Carriage 3/4 x 2-1/2 NC, PL	1
6	10300	Nut — Lock 3/4 NC, PL	1
7	10378	Time	1
8	10379	Spike	1
9	10420	Bolt — Plow 1/2 x 2-1/4 NC, PL	2
10	10832	Washer — Cut 1/2 PL	2
11	10395	Nut — Lock 1/2 NC, PL	2
12	7928	Strap — Clamp 1/2 x 1-1/2 x 5-1/4 Long	4
	BB-01-0009	Center Tooth Attachment — Complete	

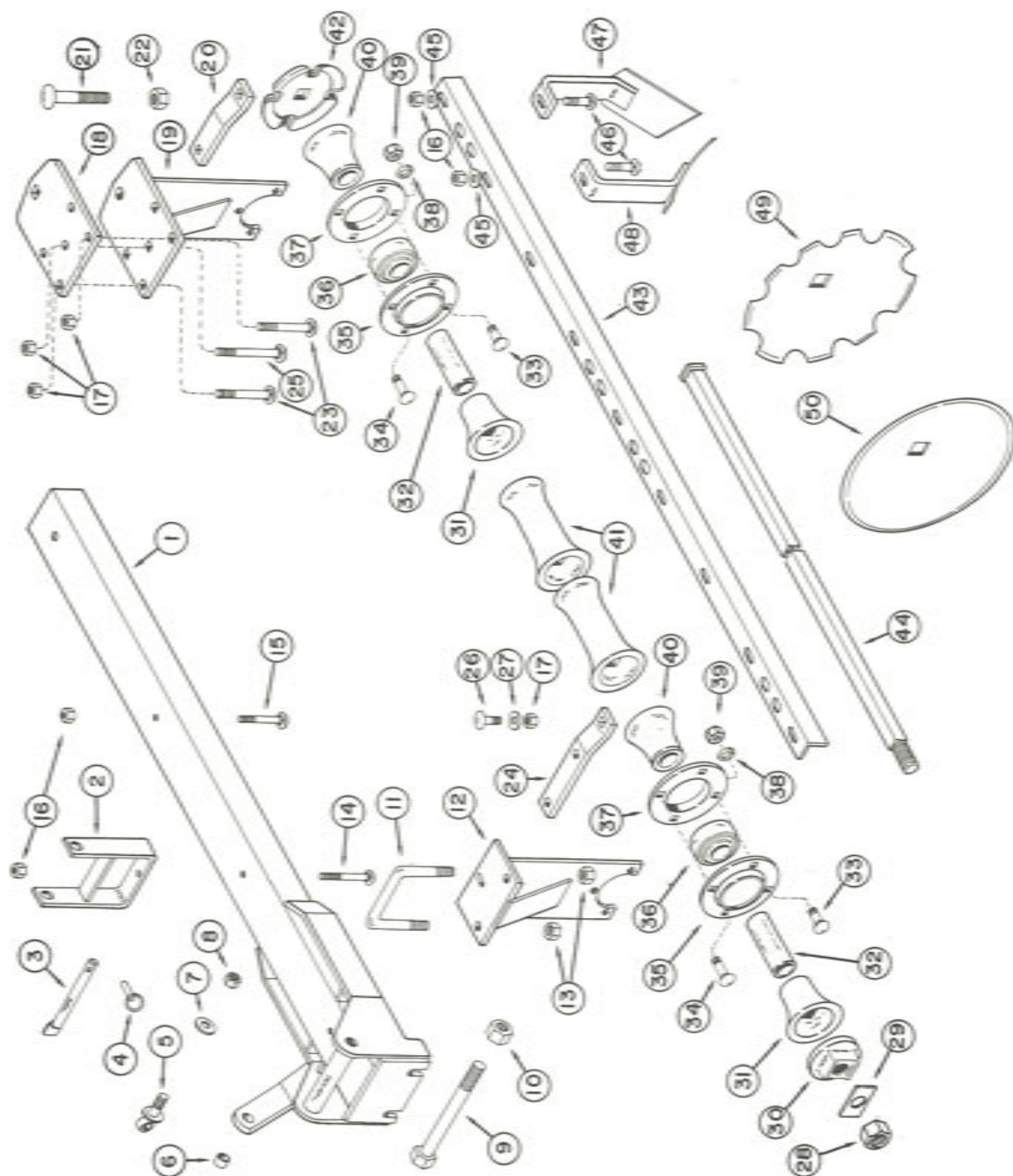
AMCO WTD7 AND WTD8 SERIES DISK HARROW
FEATHERING BLADE

Ref. No.	Part No.	Description	No. Req'd
1	7673	Spacer — Blade	2
2	3268	Blade — 18" Dia.	2
3	7801	Cap — Blade	2
4	10189	Bolt — Hex 7/8 x 3 NC	2
5	10035	Washer — Lock 7/8	2
6	10148	Nut — Hex 7/8 NC	2
7	10710	Bolt — Carriage 1/2 x 2 NC, PL	10
8	10395	Nut — Lock 1/2 NC, PL	10
9	9491	Scraper — RH	1
9	9492	Scraper — LH	1
10	10665	Bolt — Carriage 5/8 x 2 NC, PL, GR5	2
11	10299	Nut — Lock 5/8 NC, PL	2
	BL-01-0011	Set of Two Feathering Blades — Complete	

AMCO WTD7 AND WTD8 SERIES DISK HARROW
GANG DRIVERS

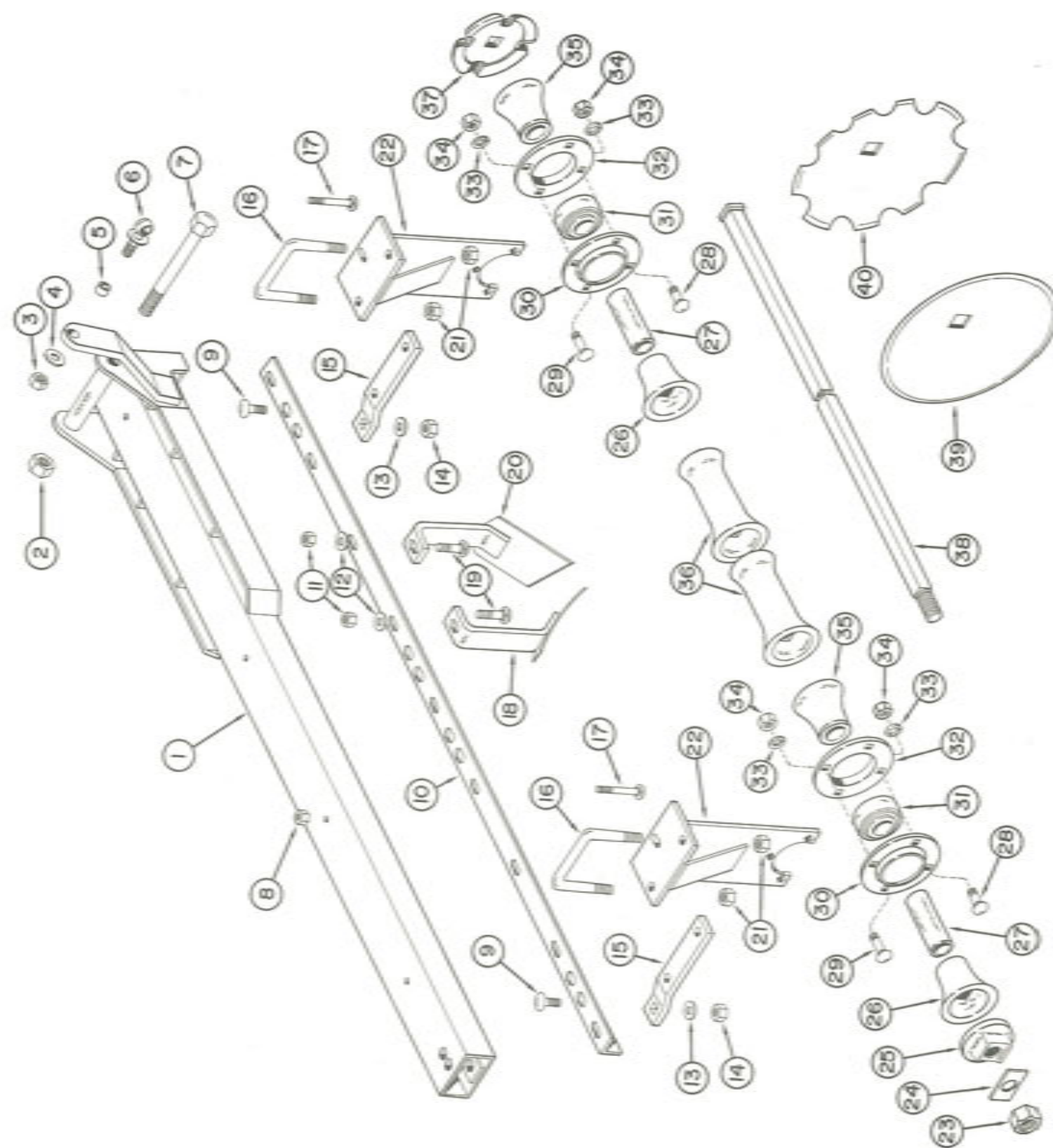
Ref. No.	Part No.	Description	No. Req'd [Set of Four]
1	0624	Lock — Gang - Male	4
2	8683	Strap — Lock	4
3	0413	Lock — Gang - Female	4
4	10870	Bolt — Carriage 1/2 x 1-1/2 NC, PL	16
5	10832	Washer — Cut 1/2 PL	16
6	10395	Nut — Lock 1/2 NC, PL	16
	BL-01-0013	Set of Four Wing Gang Drivers — Complete	

INSIDE FRONT GANG — WTD7 AND WTD8

AMCO WTD7 AND WTD8 SERIES DISK HARROW
FRONT INSIDE GANG

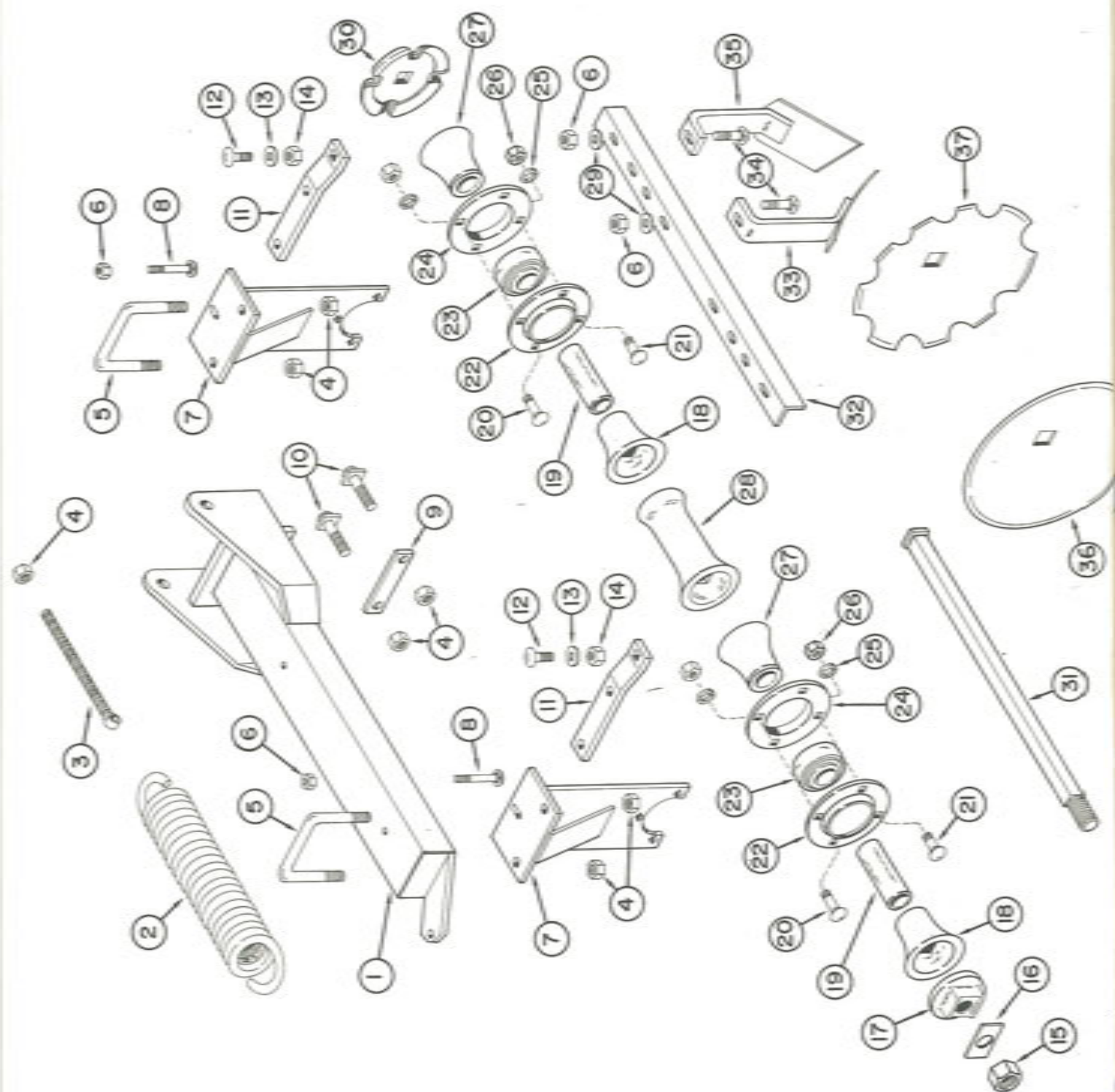
Ref. No.	Part No.	Description	No. Req'd	
			WTD7	WTD8
1	0715	Frame — Gang Front RH	1	1
1	0716	Frame — Gang Front LH	1	1
2	1487	Rest — Gang	1	1
3	9532	Pin — Hold Down 3/4 Dia. HRMS 8-1/2 Long	1	1
4	10317	Pin — Klik 1/4	1	1
5	0243	Rod Bracket	1	1
6	4327	Bushing — 3/4 Std. Pipe 25/32 Long	1	1
7	10078	Washer — Cut 3/4	1	1
8	10300	Nut — Lock 3/4 NC, PL	1	1
9	10692	Bolt — Hex 1 x 10-1/2 NC	1	1
10	10868	Nut — Lock 1 NC, PL	1	1
11	6513	Bolt — "U" 3/4 Dia.	2	3
12	0314	Riser — Bearing	2	3
13	10300	Nut — Lock 3/4 NC, PL	4	6
14	10646	Bolt — Carriage 1/2 x 4-1/2 NC, PL	1	1
15	10647	Bolt — Carriage 1/2 x 4 NC, PL	1	2
16	10395	Nut — Lock 1/2 NC, PL	11	12
17	10299	Nut — Lock 5/8 NC, PL	8	9
18	5638	Plate — Pivot	1	1
19	0313	Riser — Bearing Front	1	1
20	9474	Mount — Scraper Bar 5/8 x 2 8-1/2 Long	1	1
21	10370	Bolt — Carriage 7/8 x 5-1/2 NC, PL	1	1
22	10396	Nut — Lock 7/8 NC, PL	1	1
23	10130	Bolt — Carriage 5/8 x 5 NC, PL	4	4
24	9477	Mount — Scraper Bar 5/8 x 2 11-1/4 Long	2	3
25	10073	Bolt — Carriage 5/8 x 6 NC, PL	1	1
26	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	3	4
27	10059	Washer — Cut 5/8 PL	3	4
28	11035	Nut — Gang Bolt 1-1/8 NC, Hvy.	1	2
29	2116	Plate — Lock	1	2
30	2030	Washer — End Gang	1	2
31	8762	Bell — End, Large	3	4
32	8824	Sleeve — Insert	3	4
33	10599	Bolt — Carriage 7/16 x 1 NC, PL	3	4
34	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	9	12
35	10837	Flangette — 90 MSA	3	4
36	G10771	Bearing — GW210PPB2	3	4
37	10838	Flangette — 90 MSB	3	4
38	10619	Washer — Lock 7/16 PL	12	16
39	10618	Nut — Hex 7/16 NC, PL	12	16
40	8761	Bell — End, Small	3	4
41	6165	Spool — Spacer 1-1/8 x 9	5	3
42	3412	Washer — Bumper	1	2
43	9551	Bar — Scraper 79-1/4 Long	1	1
44	5086	Bolt — Gang 77-1/4	1	1
44	2033	Bolt — Gang 31-1/4	1	1
44	2118	Bolt — Gang 40-1/2	1	1
45	10832	Washer — Cut 1/2 PL	9	9
46	10870	Bolt — Carriage 1/2 x 1-1/2 NC, PL	9	9
47	0533	Scraper — FRH, RLH	9	9
48	0534	Scraper — FLH, RRH	9	9
49	3254	Blade — 20 x 7 Ga., CO	9	9
49	3271	Blade — 22 x 7 Ga. CO	9	9
50	3262	Blade — 20 x 7 Ga. Plain	9	9
50	3269	Blade — 22 x 7 Ga. Plain	9	9

INSIDE REAR GANG — WTD7 AND WTD8

AMCO WTD7 AND WTD8 SERIES DISK HARROW
REAR INSIDE GANG

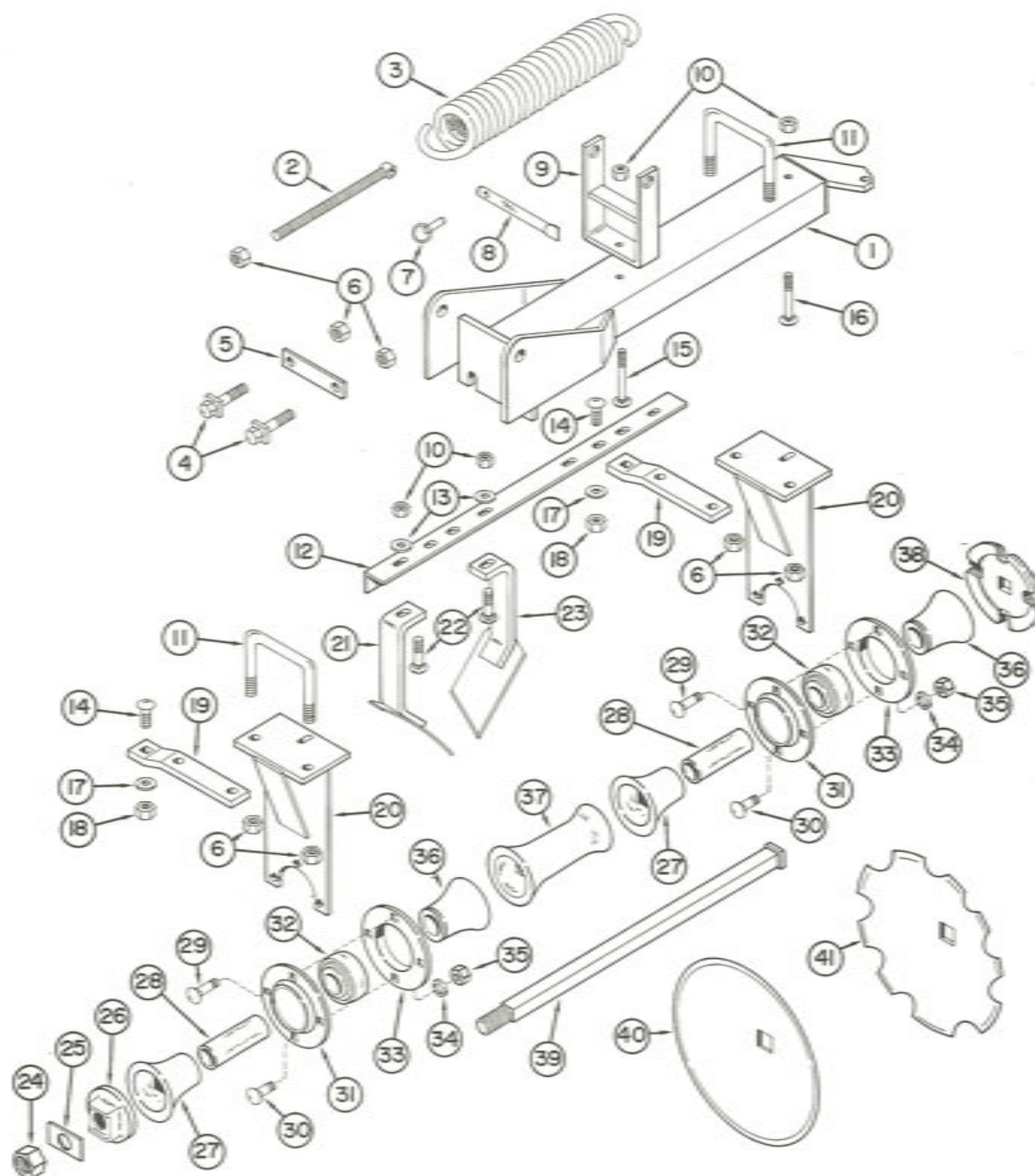
Ref. No.	Part No.	Description	No. Req'd	
			WTD7	WTD8
1	0717	Frame — Gang Rear RH	1	1
1	0718	Frame — Gang Rear LH	1	1
2	10868	Nut — Lock 1 NC, PL	1	1
3	10300	Nut — Lock 3/4 NC	1	1
4	10078	Washer — Cut 3/4	1	1
5	4327	Bushing — 3/4 Std. Pipe 25/32 Long	1	1
6	0243	Rod Bracket	1	1
7	10692	Bolt — Hex 1 x 10-1/2 NC	1	1
8	10395	Nut — Lock 1/2 NC, PL	3	4
9	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	3	4
10	9551	Bar — Scraper 79-1/4 Long	1	1
11	10395	Nut — Lock 1/2 NC, PL	9	9
12	10832	Washer — Cut 1/2 PL	9	9
13	10059	Washer — Cut 5/8 PL	3	4
14	10299	Nut — Lock 5/8 NC, PL	3	4
15	9477	Mount — Scraper Bar 5/8 x 2 11-1/4 Long	3	4
16	6513	Bolt — "U" 3/4 Dia.	3	4
17	10647	Bolt — Carriage 1/2 x 4 NC, PL	3	4
18	0534	Scraper — FLH, RRH	9	9
19	10870	Bolt — Carriage 1/2 x 1-1/2 NC, PL	9	9
20	0533	Scraper — FRH, RLH	9	9
21	10300	Nut — Lock 3/4 NC, PL	6	8
22	0314	Riser — Bearing	3	4
23	11035	Nut — Gang Bolt 1-1/8 NC Hvy.	1	2
24	2116	Plate — Lock	1	2
25	2030	Washer — End Gang	1	2
26	8762	Bell — End, Large	3	4
27	8824	Sleeve — Insert	3	4
28	10599	Bolt — Carriage 7/16 x 1 NC, PL	3	4
29	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	9	12
30	10837	Flangette — 90 MSA	3	4
31	G10771	Bearing — GW210PPB2	3	4
32	10838	Flangette — 90 MSB	3	4
33	10619	Washer — Lock 7/16 PL	12	16
34	10618	Nut — Hex 7/16 NC, PL	12	16
35	8761	Bell — End, Small	3	4
36	6165	Spools — Spacer 1-1/8 x 9	5	3
37	3412	Washer — Bumper	1	2
38	5086	Bolt — Gang 77-1/4 100 2 1/2	1	1
38	2033	Bolt — Gang 31-1/4	1	1
38	2118	Bolt — Gang 40-1/2 100 2 1/2	1	1
39	3262	Blade — 20 x 7 Ga. Plain	9	9
39	3269	Blade — 22 x 7 Ga. Plain	9	9
40	3254	Blade — 20 x 7 Ga. CO	9	9
40	3271	Blade — 22 x 7 Ga. CO	9	9

FRONT WING GANG — WTD7 AND WTD8

AMCO WTD7 AND WTD8 SERIES DISK HARROW
FRONT WING GANG

Ref. No.	Part No.	Description	No. Req'd	
			52 Blade 4 Blade Wing	56 Blade 5 Blade Wing
1	0262	Frame — Wing Gang RH	1	—
1	0263	Frame — Wing Gang LH	1	—
1	0266	Frame — Wing Gang RH	—	1
1	0267	Frame — Wing Gang LH	—	1
2	10651	Spring	—	1
2	10825	Spring	1	—
3	0242	Rod — Spring Adjusting	1	1
4	10300	Nut — Lock 3/4 NC, PL	7	7
5	6513	Bolt — "U" 3/4 Dia. 16 Long	2	2
6	10395	Nut — Lock 1/2 NC, PL	6	7
7	0314	Riser — Bearing	2	2
8	10647	Bolt — Carriage 1/2 x 4 NC, PL	2	2
9	9544	Tie Bar — 1-1/2 x 6-1/2	1	1
10	0719	Bolt — Special	2	2
11	9477	Mount — Scraper Bar 5/8 x 2 11-1/4 Long	2	2
12	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	2	2
13	10059	Washer — Cut 5/8 PL	2	2
14	10299	Nut — Lock 5/8 NC, PL	2	2
15	11035	Nut — Gang Bolt 1-1/8 NC Hvy.	1	1
16	2116	Plate — Lock	1	1
17	2030	Washer — End Gang	1	1
18	8762	Bell — End, Large	2	2
19	8824	Sleeve — Insert	2	2
20	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	6	6
21	10599	Bolt — Carriage 7/16 x 1 NC, PL	2	2
22	10837	Flangette — 90 MSA	2	2
23	G10771	Bearing — GW210PPB2	2	2
24	10838	Flangette — 90 MSB	2	2
25	10619	Washer — Lock 7/16 PL	8	8
26	10618	Nut — Hex 7/16 NC, PL	8	8
27	8761	Bell — End, Small	2	2
28	6165	Spool — Spacer	1	2
29	10832	Washer — Cut 1/2 PL	4	5
30	3412	Washer — Bumper	1	1
31	2118	Bolt — Gang 40-1/2	—	1
31	2033	Bolt — Gang 31-1/4	1	—
32	9475	Bar — Scraper 42-1/2	—	1
32	9476	Bar — Scraper 33-5/16	1	—
33	0534	Scraper — FLH, RRH	4	5
34	10870	Bolt — Carriage 1/2 x 1-1/2 NC, PL	4	5
35	0533	Scraper — FRH, RLH	4	5
36	3262	Blade — 20 x 7 Ga. Plain	4	5
36	3269	Blade — 22 x 7 Ga. Plain	4	5
37	3254	Blade — 20 x 7 Ga. CO	4	5
37	3271	Blade — 22 x 7 Ga. CO	4	5

REAR WING GANG — WTD7 AND WTD8



AMCO WTD7 AND WTD8 SERIES DISK HARROW REAR WING GANG

Ref. No.	Part No.	Description	No. Req'd	
			52 Blade 4 Blade Wing	56 Blade 5 Blade Wing
1	0264	Frame — Wing Gang RH	1	—
1	0265	Frame — Wing Gang LH	1	—
1	0268	Frame — Wing Gang RH	—	1
1	0269	Frame — Wing Gang LH	—	1
2	0242	Rod — Spring Adjusting	1	1
3	10651	Spring	—	1
3	10825	Spring	1	—
4	0719	Bolt — Special	2	2
5	9544	Tie Bar — 1-1/2 x 6-1/2	1	1
6	10300	Nut — Lock 3/4 NC, PL	7	7
7	10317	Pin — Klik 1/4	1	1
8	9532	Pin — Hold Down 3/4 Dia. HRMS 8-1/2 Long	1	1
9	1487	Rest — Gang	1	1
10	10395	Nut — Lock 1/2 NC, PL	6	7
11	6513	Bolt — "U" 3/4 Dia.	2	2
12	9475	Bar — Scraper 42-1/2	—	1
12	9476	Bar — Scraper 33-5/16	1	—
13	10832	Washer — Cut 1/2 PL	4	5
14	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	2	2
15	10646	Bolt — Carriage 1/2 x 4-1/2 NC, PL	1	1
16	10647	Bolt — Carriage 1/2 x 4 NC, PL	1	1
17	10059	Washer — Cut 5/8 PL	2	2
18	10299	Nut — Lock 5/8 NC, PL	2	2
19	9477	Mount — Scraper Bar 5/8 x 2 11-1/4 Long	2	2
20	0314	Riser — Bearing	2	2
21	0534	Scraper — FLH, RRH	4	5
22	10870	Bolt — Carriage 1/2 x 1-1/2 NC, PL	4	5
23	0533	Scraper — FRH, RLH	4	5
24	11035	Nut — Gang Bolt 1-1/8 NC, Hvy.	1	1
25	2116	Plate — Lock	1	1
26	2030	Washer — End Gang	1	1
27	8762	Bell — End, Large	2	2
28	8824	Sleeve — Insert	2	2
29	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	6	6
30	10599	Bolt — Carriage 7/16 x 1 NC, PL	2	2
31	10837	Flanette — 90 MSA	2	2
32	G10771	Bearing — GW210PPB2	2	2
33	10838	Flanette — 90 MSB	2	2
34	10619	Washer — Lock 7/16 PL	8	8
35	10618	Nut — Hex 7/16 NC, PL	8	8
36	8761	Bell — End, Small	2	2
37	6165	Spool — Spacer	1	2
38	3412	Washer — Bumper	1	1
39	2118	Bolt — Gang 40-1/2	—	1
39	2033	Bolt — Gang 31-1/4	1	—
40	3262	Blade — 20 x 7 Ga. Plain	4	5
40	3269	Blade — 22 x 7 Ga. Plain	4	5
41	3254	Blade — 20 x 7 Ga. CO	4	5
41	3271	Blade — 22 x 7 Ga. CO	4	5

DECALS

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AMCO

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MAINTENANCE INSTRUCTIONS

1. KEEP ALL BOLTS TIGHT.
A. VISUALLY INSPECT ALL BOLTS DAILY.
B. CHECK AFTER FIRST 50 HOURS OR ONE WEEK'S OPERATION.
2. KEEP WHEEL BEARINGS PROPERLY ADJUSTED.
A. CLEAN & REPACK EACH SEASON OR EVERY 300 HRS.
B. REPLACE ALL WORN OR DAMAGED PARTS WHEN REPAIRING.
3. DO NOT RUN WITH LOOSE DISK BLADES. KEEP GANG BOLTS TIGHT! TIGHTEN AFTER FIRST DAY'S OPERATION.
4. KEEP SCRAPERS PROPERLY ADJUSTED 1/16" - 1/8" FROM BLADES.
5. GREASE GANG BEARINGS EVERY TWO WEEKS OR 100 HOURS, AT THE START OF EACH SEASON, AND AT THE END OF EACH SEASON. APPLY WITH LOW PRESSURE, LOW VOLUME HAND GREASE GUN. USE A GOOD, CLEAN LITHIUM BASE GREASE - SHELL ALVANIA NO. 3 OR EQUAL. ROTATE GANGS WHILE GREASING FOR BEST RESULTS.

AMCO, YAZOO CITY, MISS. USA

AMCO WTD7 AND WTD8 SERIES DISK HARROW

DECALS

Ref. No.	Part No.	Description	No. Req'd
1	10948	Decal — AMCO	2
2	10941	Decal — Warning	1
3	10997	Decal — Maintenance	1

OPERATING INSTRUCTIONS

This harrow has been properly set up, inspected, and adjusted by your dealer before delivery. However, it is well to check the entire harrow to make certain that all bolts are tightened, cotter pins spread and hydraulic hoses properly attached.

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

It is well to remember that a harrow carelessly operated may not work as intended.

The right and left hand side of the harrow is designated by facing the direction of travel in operation.

It is recommended the tractor be operated at a speed best suited for soil conditions. High-speed disking will sometimes result in excessive lateral movement of the soil. This may leave an uneven surface behind the disk harrow commonly known as "Ridging" and "Furrowing."

When disking in a cover crop or where the land is to be reworked, an uneven surface is not objectionable. If the land is to be bare until the next crop season, furrows and ridges will reduce soil washing, and will help catch and hold moisture, resulting in more water being absorbed by the soil.

Where it is necessary to have a level job of disking, the following factors must be taken into consideration: Gang Angle, Tractor Speed and Hitch Adjustment.

A center tooth is provided on this harrow to till the band of soil not moved by the front disk gangs.

Gang drivers or "Gang Locks" are available to connect the gangs and assure that all gangs turn in the most adverse conditions.

TRACTOR SPEED

High speeds (above 5 MPH) may result in forming of ridges and furrows. Furrow filler disks help overcome this problem.

The furrow filler disks provided at the outer end of each rear gang will fill and level the furrow left by the rear gang outer disk blades.

Reduce speed where rocks or stumps are a factor.

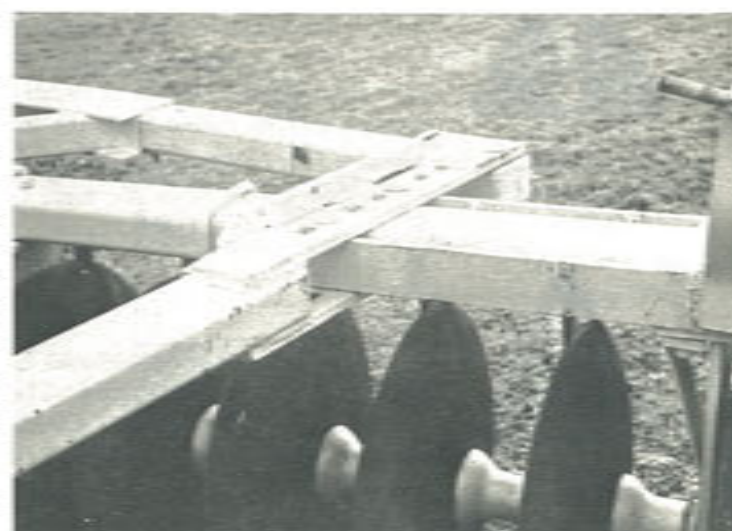
ADJUSTMENT

The frame of the harrow should be level when the harrow is in operation so the front and rear disk gangs will penetrate the soil uniformly.

The spring loaded stabilizer may be lengthened or shortened to level the harrow — front to rear. Extend stabilizer to force rear gangs into the ground. Reduce length to force front gangs into the ground.

Adjust hitch tongue for tractor drawbar height by attaching to upper or lower holes provided on main frame.

All four gangs are independently adjusted from 15° to 19° angle. Moving the front gangs forward and rear gangs rearward increases gang angle. Gang angle can be reduced by moving front gang toward rear and rear gangs toward front. Increasing gang angle increases penetration, power requirements, and soil pulverizing action. Decreasing gang angle reduces penetration, power requirements, and soil pulverizing action. Set front and rear gangs in center position initially, then adjust as necessary. Adjust both front gangs evenly. Adjust both rear gangs evenly.

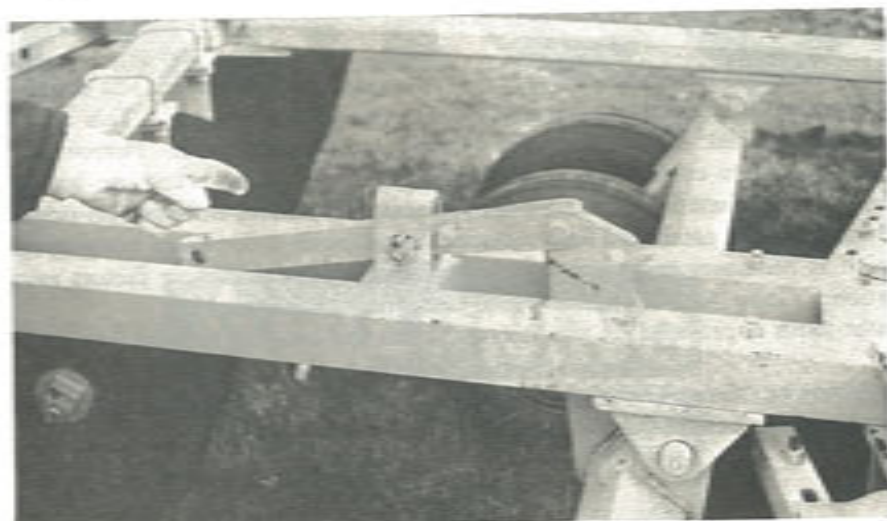


Adjust distance between rear gangs by use of holes on inside rear of gang frame tubes. Make sure gangs are centered!

Increase spacing between center portion of rear gang for high speed or decrease for low speed. Adjust until harrow leaves soil level.

Scrapers should be adjusted to run approximately 1/16-1/8 inch from the disk blades. Each scraper may be adjusted individually.

Raise harrow on wheels and secure for transport by using the transport pin provided. Remove pin before lowering harrow.



When transporting machinery over public roads, comply with your local and state laws regarding length, width, and lighting.

WARNING REFLECTORS



Attach the reflector with both red and amber reflective surfaces as near as possible to the extreme left rear part of the harrow. Mount the warning reflector so the red reflective surface is visible from the rear of the harrow and the amber reflective surface visible from the front.

Attach the other warning reflector as near as possible to the extreme right rear part of the harrow with the red reflective surface visible from the rear.



The SMV (Slow Moving Vehicle) Emblem is a recommended attachment that should be added to your harrow. The SMV Emblem can be purchased from your Authorized AMCO Dealer. Check your state and local laws regarding the placement and use of the SMV Emblem.

When trailing the harrow over public thoroughfares, the SMV Emblem must be used, for protection of tractor and motor vehicle operators.

LUBRICATION

Careful and regular attention to lubrication will greatly increase the life of the harrow. For economical and efficient operation, the proper lubrication of the frame fittings, gang bearings, and wheel bearings is essential.

Be sure the pressure fittings are free of dirt or paint before using the pressure gun. Replace missing or damaged fittings. Use a good No. 2 gun grease (Lithium Base).

GANG BEARINGS — The AMCO wheel type disk harrow is equipped with triple seal regreasable ball bearings. These bearings are packed and greased at the factory. They should be regreased every two weeks or after each 100 hours of operation. The harrow should be greased at the end of each season. Raise the harrow and spin the gangs slowly so that grease wraps around the bearing seals. This will protect the seals against the elements while the harrow is not in use.

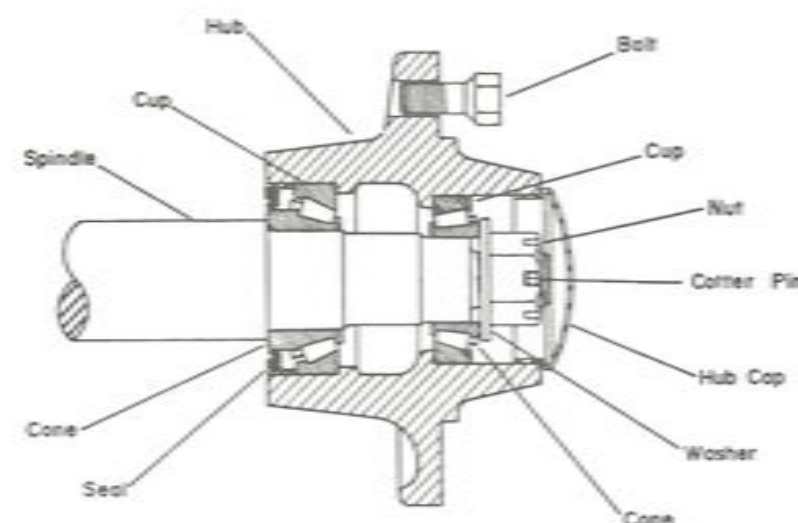
IMPORTANT: Apply grease with low pressure, low volume hand grease gun. Use care to prevent damage to bearing seals.



Keep wheel bearings properly adjusted. Check often.



HUB AND SPINDLE



SAFETY SUGGESTIONS

Never ride or permit others to ride on the drawbar of the tractor or on the disk harrow. Only one person — the operator — should be permitted on the tractor while tractor and disk harrow are in operation.

Never clean, adjust, or lubricate a machine that is in motion.

All hydraulically elevated components must be blocked or lowered to prevent accidents when adjusting or lubricating the harrow. Always lower the harrow when it is to stand idle.

When working on disk harrows, care should be exercised in handling or tightening bolts near disk blades to avoid injury.

Park or block the disk harrow so it will not roll when disconnected from the tractor drawbar.

Never stand between a tractor and machine when hitching unless all the controls are in neutral and the brakes are locked.

Remember, a careful operator is always the best insurance against an accident.

MAINTENANCE

- Keep all bolts tight.
 - Check before placing in service.
 - Visually inspect all bolts daily.
 - Check after first 50 hours or one week's operation.
 - Check each season.
- Keep wheel bearings properly adjusted.
 - Check often.
 - Clean and repack each season or every 300 hours.
 - Replace worn or damaged parts.
 - In dis-assembling and re-assembling the wheel hub assemblies, care must be taken to not damage the grease seal lips. In re-assembly, to seat the bearings, carefully tighten the hex nut until the hub drags. Rotate hub to help seat the bearing cups and cones. Re-tighten the hex nut until the hub drags, then back off the hex nut to the nearest slot and secure with cotter pin.
- Do not run with loose disk blades. Keep gang bolts tight!
- Keep scrapers properly adjusted 1/16" - 1/8" from blades.
- Grease gang bearings every two weeks or 100 hours, at the start of each season, and at the end of each season. Apply with low pressure, low volume hand grease gun. Use a good No. 2 gun grease (Lithium Base).

CAUTION: Use care to prevent damage to seals.

- Disk Blade, Bearing and Spool Replacement.
 - Remove bolts that hold flangettes to the bearing risers.
 - Raise the harrow and roll the disk from the frame.
 - Remove the gang nut lock plate from the gang hex nut.
 - Remove the gang hex nut from the end of the shaft.
 - Slide off the bearing spools, spacers, and blades.
 - Avoid thread damage.
 - Install new blades.
 - To replace bearing remove carriage bolt in flangettes and remove bearing.
 - Clean and wash out old grease.
 - Check flangettes for wear and damage.

- Replace flangettes if worn or damaged. This will lengthen bearing life.
 - Place bearing between flangettes. Install carriage bolt. Check location of grease hole in outer ring of bearing. This hole must align with grease groove in flangette.
 - Re-install bearing spools, spacers, blades.
 - Be sure flangette grease fitting faces up and to the rear.
 - Install gang nut lock plate.
 - Install gang bolt hex nut. **IMPORTANT:** Tighten nut to 700-900 ft. lbs.
 - Bend lock plate over hex nut to lock nut in place.
 - Re-install gang to bearing risers with carriage bolts.
 - Lubricate bearings (See Lubrication Section).
 - Rotate gang to be sure it turns freely. The bearing must be in proper alignment to prevent unnecessary wear. Loosen bearing riser mounting bolts and re-space bearing risers as required to align with bearings. Failure to properly space bearing risers will pre-load bearings.
- Grease tongue control rod and rockshaft bearing every two weeks or 100 hours, at the start of each season, and at the end of each season.
 - Adjust wing lift assist springs as required to aid in folding wings for transport. Turn nut clockwise on spring adjusting rod to increase spring tension thus providing more spring assist for folding.
 - Keep wing hold down bolts tight at all times! (Use 200 ft. lbs. torque.) Check often to assure that bolts stay tight. Newer WTD7 and WTD8 harrows are equipped with easily replaceable hold down bolts. A special repair kit is available to replace the eye bolts on older harrows should they require replacement.
 - Proper storage will add life to your disk harrow. To prepare for storage:
 - Clean and lubricate the machine.
 - Inspect and note excessively worn or broken parts so that repair or replacement can be made promptly.
 - Repaint where necessary and protect all unpainted surfaces with rust-preventative grease or oil.
 - Tighten loose bolts.
 - IMPORTANT:** Whenever the disk blades or bearings are replaced, the gang bolt nut must be torqued to 700-900 ft. lbs.
 - Store in a dry place, with gangs resting on boards to remove weight from the tires.

ASSEMBLY INSTRUCTIONS

The harrow is shipped from the factory with maximum pre-assembly in the following bundles:

- | | |
|--------------------------|----------------------------|
| A. Hitch Tongue | G. Front Gang — RH |
| B. Main Frame | H. Front Gang — LH |
| C. Front and Rear Bars | I. Rear Gang — RH |
| D. Side Bars | J. Rear Gang — LH |
| E. Rockshaft | K. Scrapers |
| F. 4 — 15" 6-Hole Wheels | L. Center Tooth Attachment |

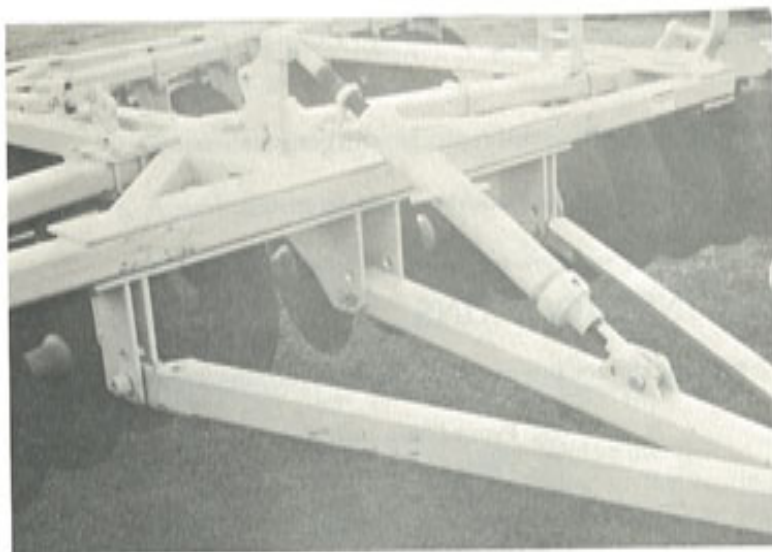
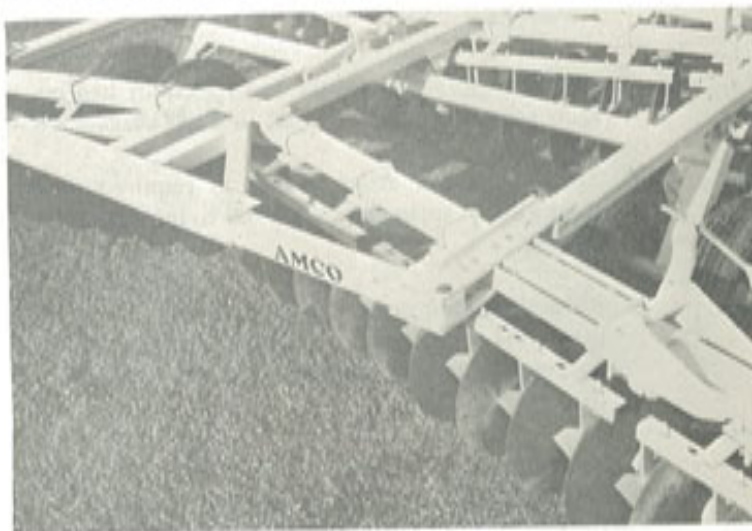
- Place all bundles where they will be convenient. Arrange loose parts so they may be readily seen when needed. The necessary installation bolts are ordinarily located in the holes in which they are to be used. Do not remove any bolts until part involved is ready to be assembled. To insure good alignment of the units and parts, always insert all bolts, leaving the nuts loose. Tighten the nuts evenly to prevent misalignment, distortion, or binding. Be sure all bolts are tight, all cotter pins properly spread and all pins properly inserted.

2. Select clean level area for assembly. Place main frame on sturdy stands at least 30" high. Place on front and rear to clear gang frames.



CAUTION: Use sturdy stands to prevent frame from falling!

3. Attach four (4) gang frames to main frame. Use carriage bolts. Tighten bolts snug, but not tight.
4. Shift front gangs to front and rear gangs to rear. Install side rails using bolts to secure. Tighten bolts snug—but not tight!
5. Install Front and rear cross bars. Insert Bolts. Tighten bolts snug—but not tight!
6. Move rockshaft into position under center of main frame. Bolt to main frame—snugly—but not tight!
7. Mount four (4) high flotation tires and tubes on the four (4) 15" wheels. Consult tire manufacturer for proper tire inflation pressure.
8. Remove hub bolts. Bolt wheels to hub, tighten bolts evenly to assure proper alignment of wheels.



9. Attach center tooth to main frame approximately 10" behind rockshaft.
10. Attach hitch tongue using lower holes in main frame. Tighten bolts. Adjust later if necessary to match tractor drawbar.
11. Attach stabilizer to hitch control bracket.
12. Attach hose holder to hitch tongue.
13. Attach hitch jack to hitch tongue. (Optional Equipment)

14. Attach scrapers to scraper bar on each gang frame. Place scraper 1/16"-1/8" from blades.
15. Attach two (2) hoses (approximately 120") and breakaway couplings from tractor to hydraulic cylinder.

[NOTE: Hoses, couplings and cylinder offered as optional equipment.]

16. Check the harrow to be sure all bolts are tight, cotter pins spread, pins in place and that the gangs rotate freely.
17. All bolts, including wheel bolts, should be checked after initial field use.