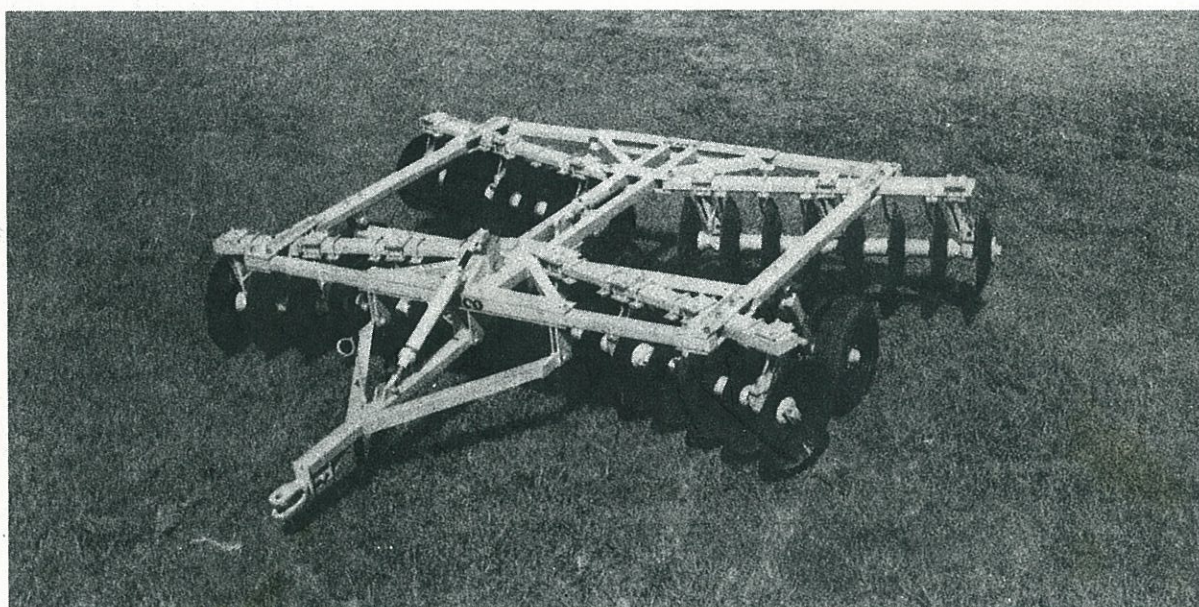




**PARTS CATALOG
OPERATION—MAINTENANCE—SET-UP
INSTRUCTIONS**

FOR
MODEL WTF5 - WTF6 - WTJ5 - WTJ6
TANDEM DISK HARROW

10-1/2"



PRODUCTS

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



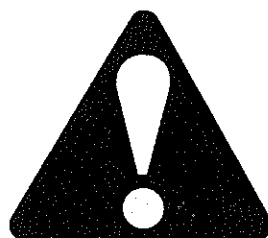
To the Purchaser:

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.

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General Specifications

Model	Cutting Width	No. of Disks	Disk Size & Type	Approximate D.B.H.P. Required	Approximate Weight Pounds
WTF5-2824-PBG	11' 0"	28	24" Plain	70- 80	4960
WTF5-3224-PBG	12' 6"	32	24" Plain	75- 85	5265
WTF5-3624-PBG	13'10"	36	24" Plain	85- 95	6035
WTF5-4024-PBG	15' 6"	40	24" Plain	90-100	6340
WTF6-2824-PBG	11' 0"	28	24" Plain	70- 80	5035
WTF6-3224-PBG	12' 0"	32	24" Plain	80- 90	5405
WTF6-3624-PBG	13'10"	36	24" Plain	90-100	6290
WTF6-4024-PBG	15' 6"	40	24" Plain	100-110	6595
WTJ5-2824-PBG	12' 6"	28	24" Plain	75- 85	5240
WTJ5-3224-PBG	14' 0"	32	24" Plain	85- 95	5935
WTJ6-2824-PBG	12' 6"	28	24" Plain	75- 85	5370
WTJ6-2826-PBG	12' 6"	28	26" Plain	75- 85	5525
WTJ6-3224-PBG	14' 0"	32	24" Plain	90-100	6160
WTJ6-3226-PBG	14' 0"	32	26" Plain	90-100	6345

FRAME: Main, heavy structural steel

GANG BOLTS: 1-1/2" Square

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) 15 x 6 - 6 Hole on 11'0" & 12'6" Models for but less 9.5L x 15 Tires

(4) 15 x 8 - 6 Hole on 13'10", 14'0" and 15'6" Models for but less

11L or 12.5L x 15 Tires

DISK BLADE OPTIONS

24 x 1/4 Solid, Spherical

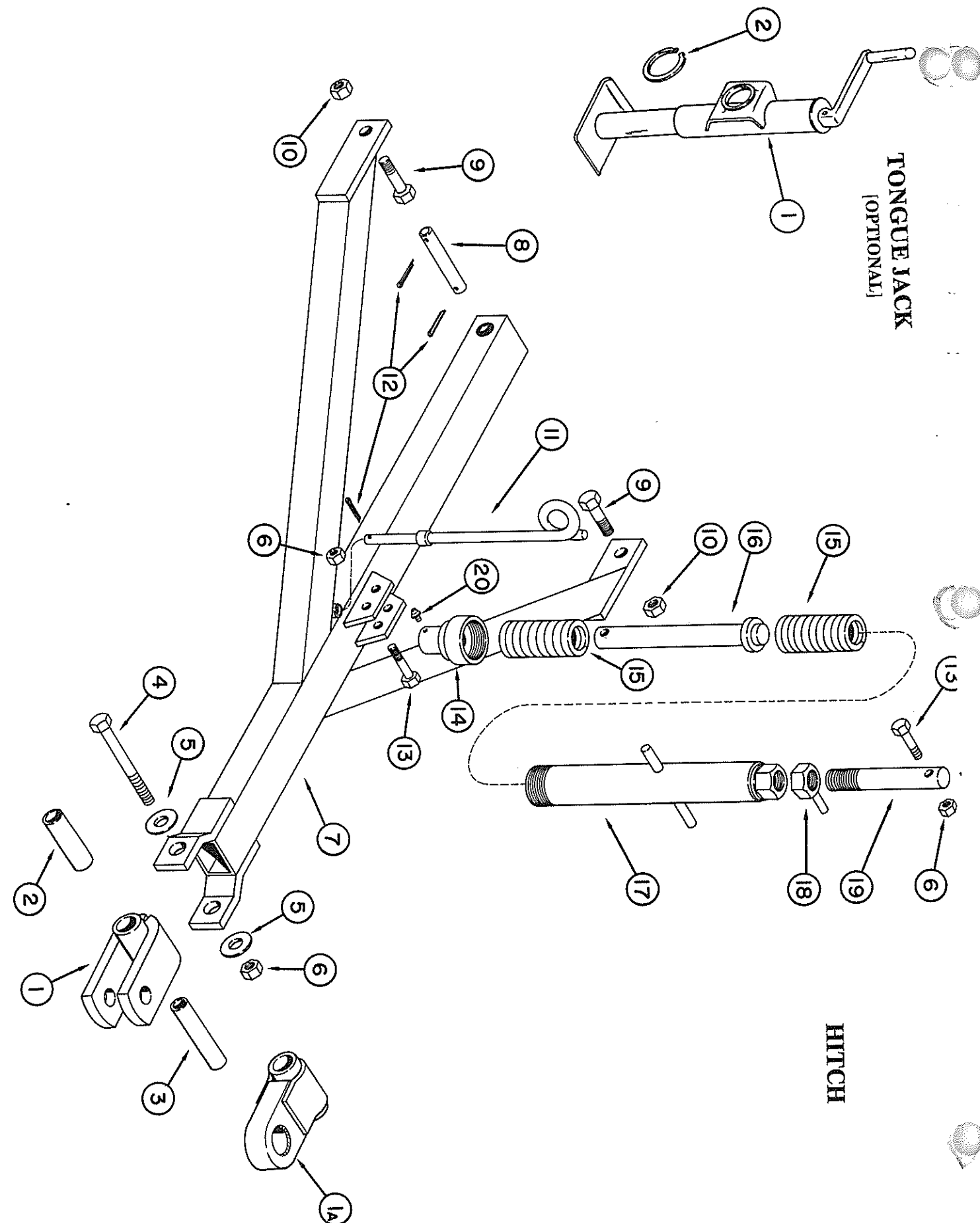
24 x 1/4 C.O., Spherical

26 x 1/4 Solid, Spherical (WTJ6 Only)

26 x 1/4 C.O., Spherical (WTJ6 Only)

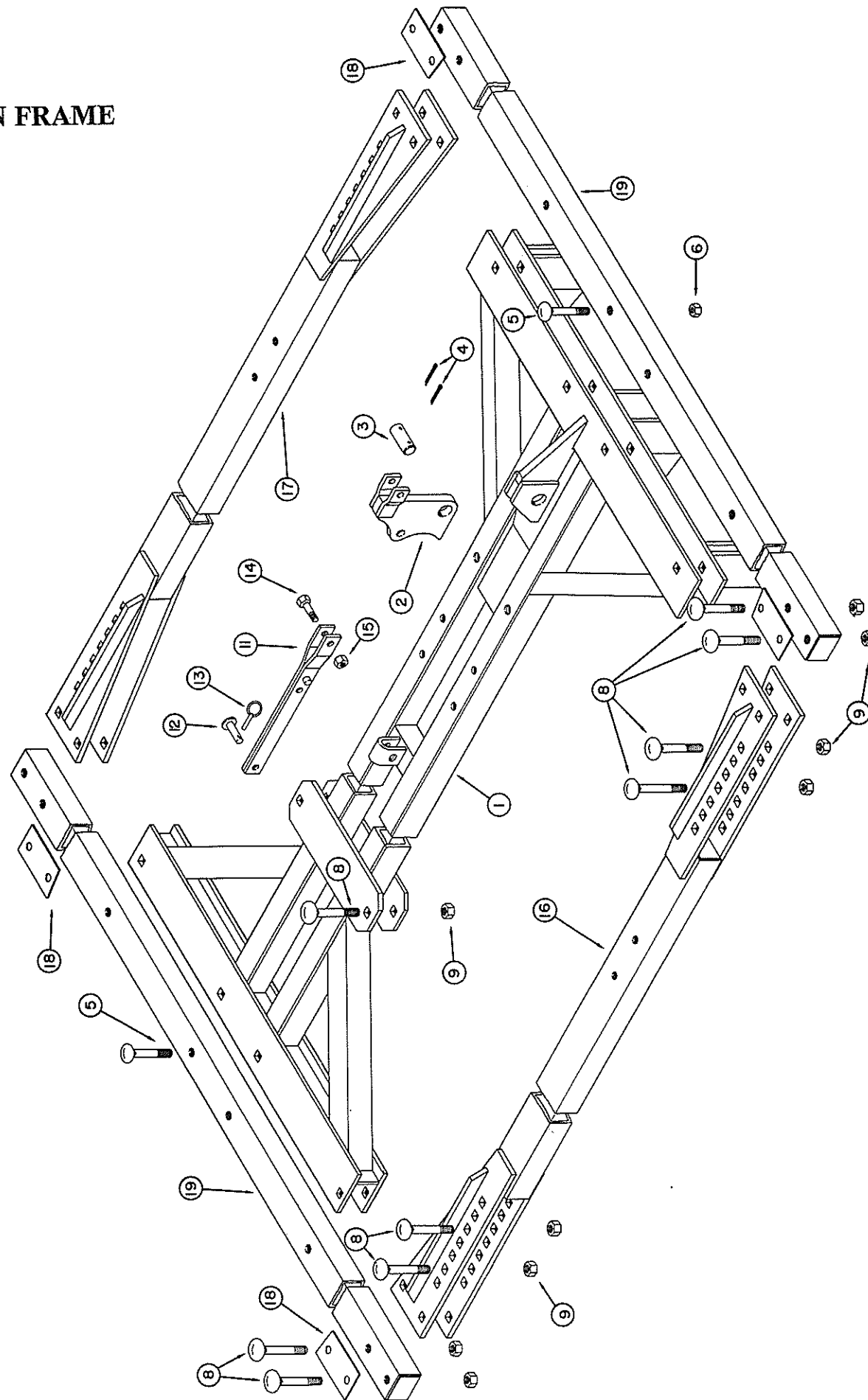
AMCO WTF & WTJ SERIES DISK HARROW HITCH

3



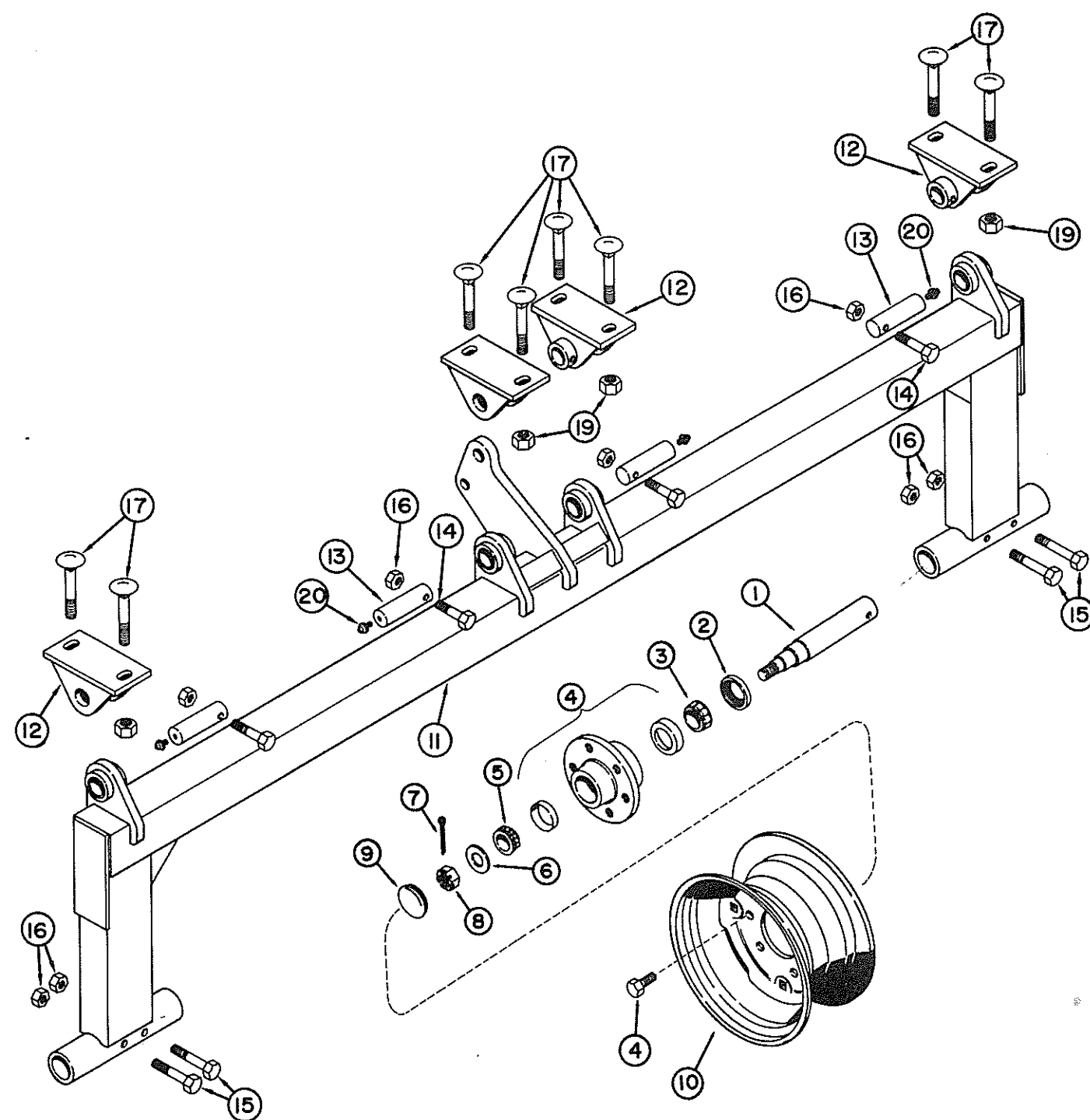
Ref. No.	Part No.	Description	No. Reqd.
1	0434	Clevis — Pull	1
1A	0550	Clevis — Pull (optional)	1
2	9204	Bushing — Clevis	1
3	9205	Bushing — Clevis	1
4	10865	Bolt — Machine 3/4 x 9 NC, PL	1
5	10866	Washer — 3/4 PL	2
6	10300	Nut — Lock 3/4 NC, PL	3
7	0608	Tongue — Pull	1
8	5396	Pin — Pivot	1
9	10373	Bolt — Hex 1 x 3-1/2 NC	2
10	10868	Nut — Lock 1 NC	2
11	771	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	2
16	1167	Rod — Piston	1
17	1479	Housing — Springs	1
18	1168	Nut — Adjusting	1
19	5403	Rod — Stud Threaded	1
20	11081	Fitting — Grease	1
TONGUE JACK [OPTIONAL]			
1	10883	Jack	1
2	10912	Ring — Snap	1

MAIN FRAME

AMCO WTF & WTJ SERIES DISK HARROW
MAIN FRAME

Ref. No.	Part No.	Description	Model WTF5 & 6 28 & 32 Blade	Model WTF5 & 6 36 & 40 Blade
			Model WTJ5 & 6 28 Blade	Model WTJ5 & 6 32 Blade
			No. Reqd.	No. Reqd.
1	1480	Frame — Main	1	1
2	1460	Bracket — Hydraulic Cylinder	1	1
3	6388	Pin — Pivot	1	1
4	10087	Pin — Cotter	2	2
5	10130	Bolt — Carriage 5/8 x 5 NC, PL	8	8
6	10299	Nut — Lock 5/8 NC, PL	8	8
8	10370	Bolt — Carriage 7/8 x 5-1/2 NC, PL	18	18
9	10396	Nut — Lock 7/8 NC, PL	18	18
11	1443	Bar — Transport	1	1
12	0388	Pin — Transport	1	1
13	10317	Pin — Klik 1/4	1	1
14	10727	Bolt — Machine 3/4 x 3 NC, PL, GR5	1	1
15	10300	Nut — Lock 3/4 NC, PL	1	1
16	1483	Bar — Side RH	1	1
17	1484	Bar — Side LH	1	1
18	5429	Shim	4	4
19	1481	Bar — Front or Rear	2	—
19	1171	Bar — Front or Rear	—	2

ROCKSHAFT

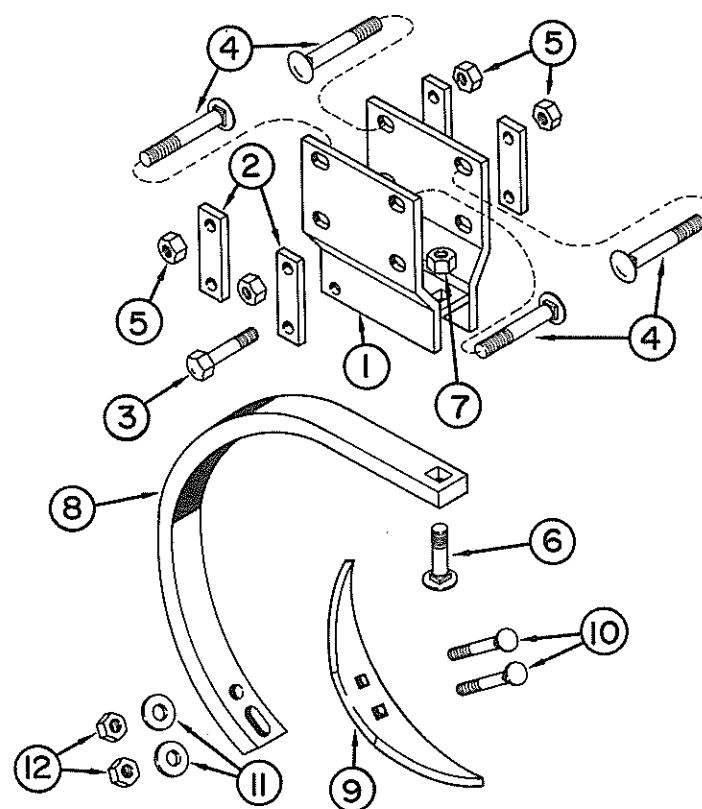


AMCO WTF & WTJ SERIES DISK HARROW ROCKSHAFT

Model WTF5 & 6
28 & 32 Blade
Model WTJ5 & 6
28 Blade

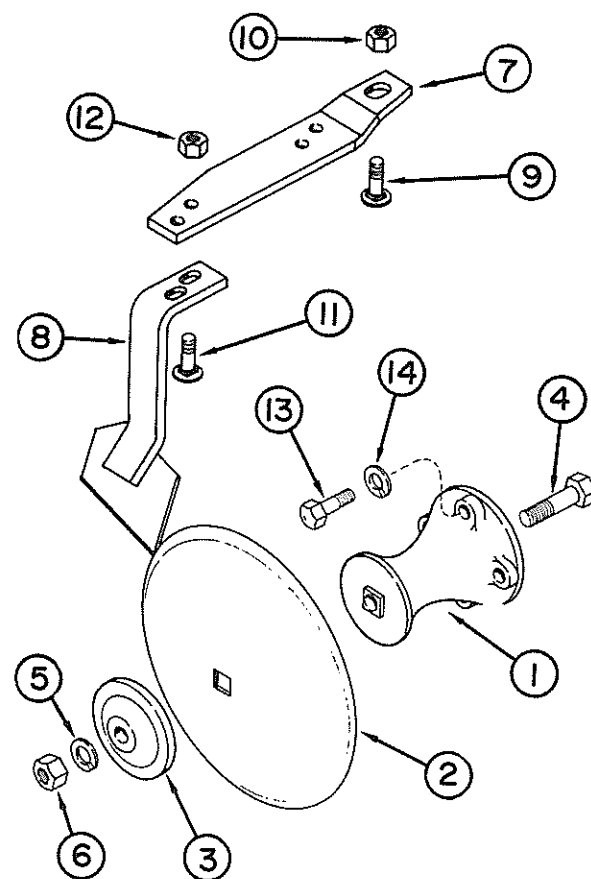
Model WTF5 & 6
36 & 40 Blade
Model WTJ5 & 6
32 & 36 Blade

Ref. No.	Part No.	Description	No. Reqd.	No. Reqd.
1	10880	Spindle — 1-15/16 Dia.	4	4
2	10256	Seal	4	4
3	10258	Cone — Inner Timken 342A	4	4
4	10254	Hub — w/2 Cups and 6 Lug Bolts	4	4
4	10257	Cup — Inner Timken 332	4	4
4	10261	Cup — Inner Timken 14276	4	4
4	10259	Lug Bolt	24	24
5	10262	Cone — Outer Timken 14137A	4	4
6	10263	Washer — 7/8	4	4
7	10291	Pin — Cotter 5/32 x 1-1/4	4	4
8	10264	Nut — 7/8 NF Slotted	4	4
9	10242	Cap — Hub	4	4
10	10265	Wheel — 15 x 6 - 6 Hole (used before July 1, 1973)	4	—
10	10936	Wheel — 15 x 8 - 6 Hole (used after July 1, 1973)	—	4
11	0554	Rockshaft	1	—
11	0557	Rockshaft	—	1
12	0553	Base — Rockshaft Bearing	4	4
13	9209	Pin — Retainer 1-1/2 Dia.	4	4
14	10765	Bolt — Machine 3/8 x 2-1/2 NC, PL, GR5	4	4
15	10773	Bolt — Machine 3/8 x 3-1/2 NC	4	4
16	10509	Nut — Lock 3/8 NC, PL	8	8
17	10341	Bolt — Carriage 5/8 x 4-1/2 NC, PL	8	8
19	10299	Nut — Lock 5/8 NC, PL	8	8
20	10721	Fitting — Grease	8	8

"BALK BUSTER"

AMCO WTF & WTJ SERIES DISK HARROW CENTER TOOTH ATTACHMENT BALK BUSTER

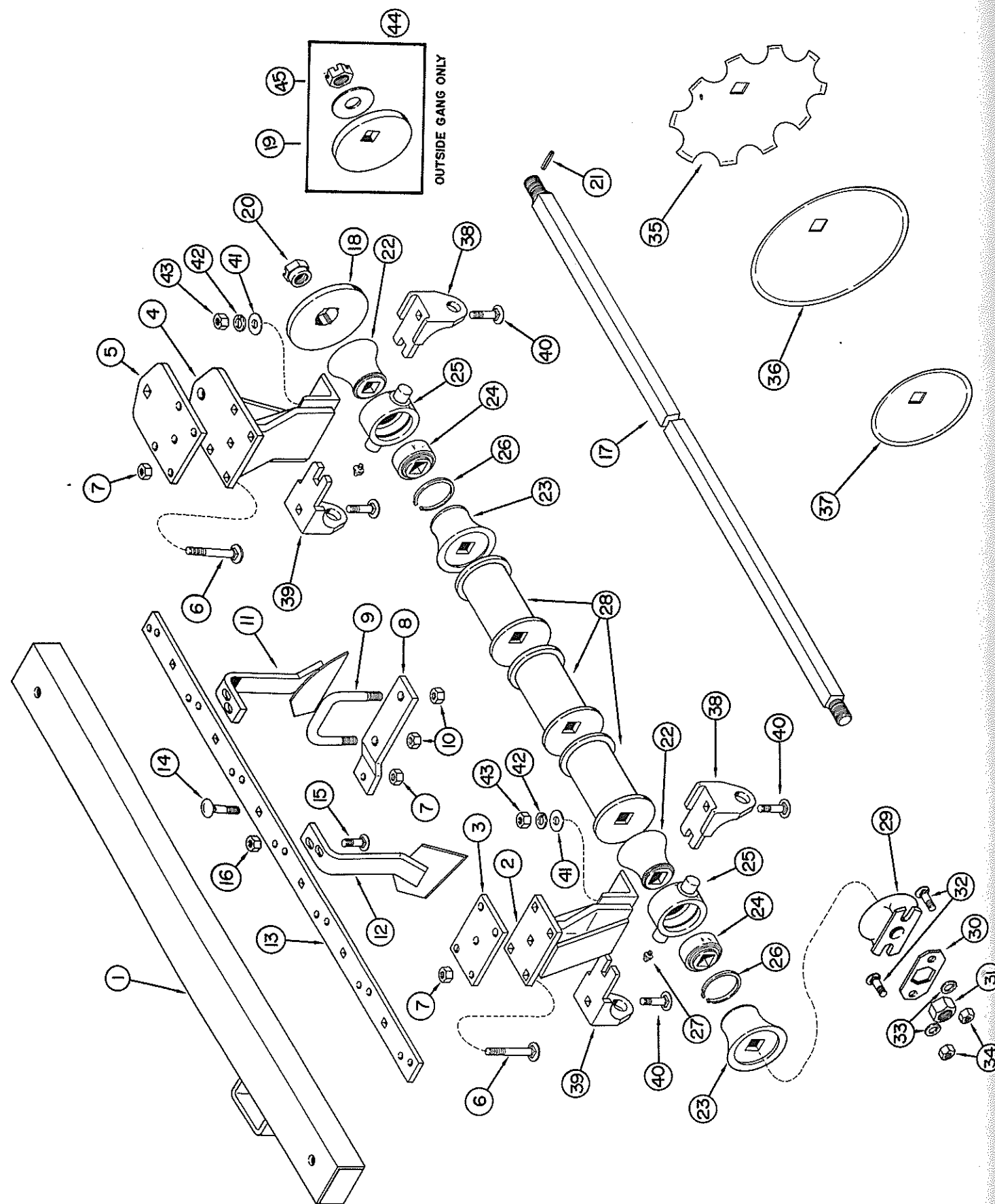
Ref. No.	Part No.	Description	No. Reqd.
1	1561	Attachment — Center Point	1
2	7928	Strap — Clamp	4
3	10851	Bolt — Machine 5/8 x 3-1/2 NC, PL	1
4	10340	Bolt — Carriage 5/8 x 5-1/2 NC, PL	8
5	10299	Nut — Lock 5/8 NC, PL	9
6	10389	Bolt — Carriage 3/4 x 2-1/2 NC, PL	1
7	10300	Nut — Lock 3/4 NC, PL	1
8	10378	Tine	1
9	10379	Spike	1
10	10420	Bolt — Plow 1/2 x 2-1/4 NC, PL	2
11	10832	Washer — Cut 1/2 PL	2
12	10395	Nut — Lock 1/2 NC, PL	2

**FEATHERING BLADE**

AMCO WTF & WTJ SERIES DISK HARROW FEATHERING BLADE

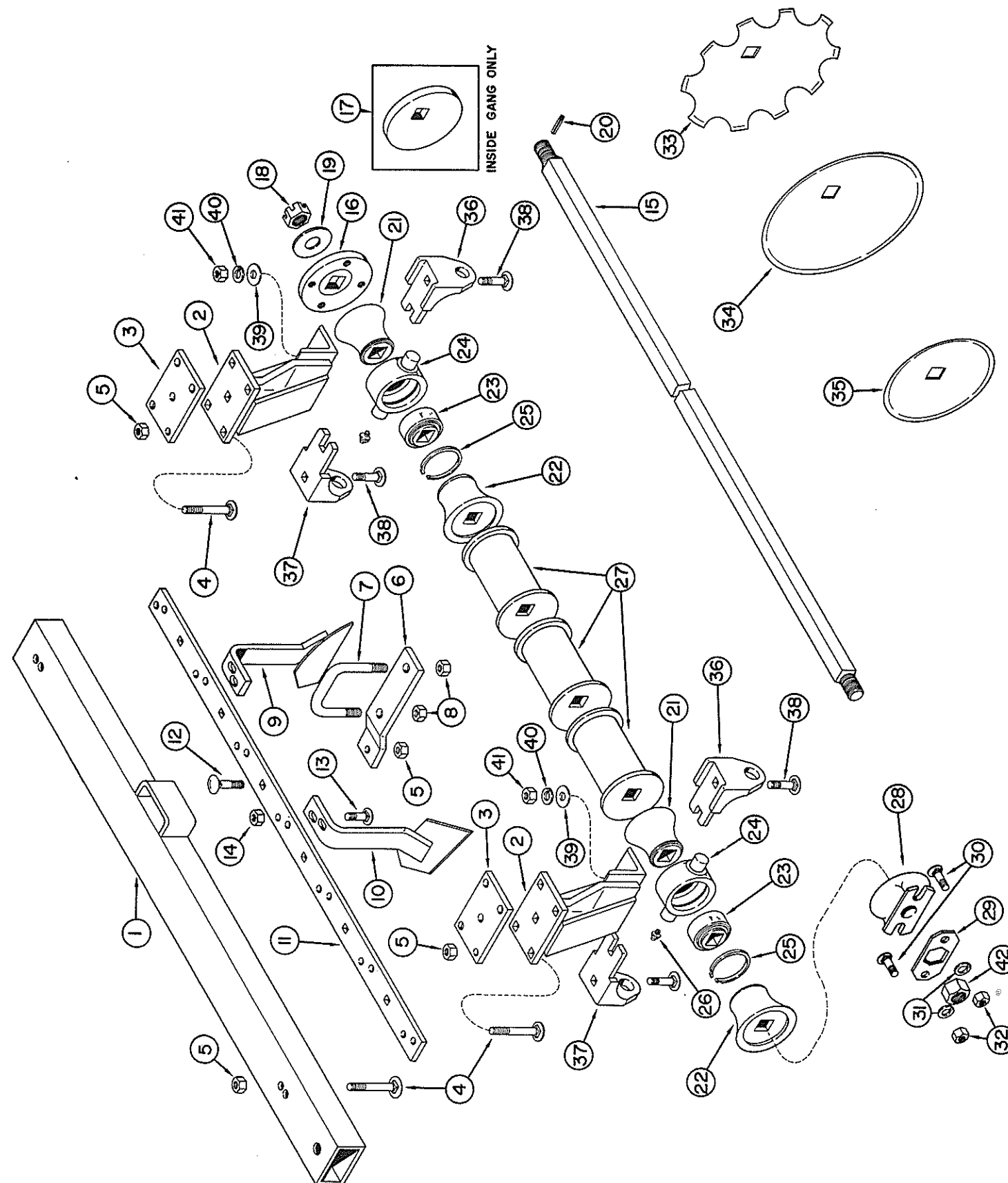
Ref. No.	Part No.	Description	No. Reqd.
1	7673	Spacer	2
2	2450	Blade — 20" Plain 9 GA	2
3	7801	Cap — End	2
4	10189	Bolt — Machine 7/8 x 3 NC, PL	2
5	10035	Washer — Lock 7/8 PL	2
6	10148	Nut — Hex 7/8 NC, PL	2
7	7926	Extension — Scraper Bar RH	1
7	7927	Extension — Scraper Bar LH	1
8	1194	Scraper — RH	1
8	1195	Scraper — LH	1
9	10722	Bolt — Carriage 5/8 x 2-1/2 NC, PL	2
10	10299	Nut — Lock 5/8 NC, PL	2
11	10710	Bolt — Carriage 1/2 x 2 NC	4
12	10395	Nut — Lock 1/2 NC, PL	4
13	10928	Screw — Cap 1/2 x 1-3/4 NC, PL	8
14	10098	Washer — Lock 1/2 PL	8

FRONT GANG — WTF5

AMCO WTF5 SERIES DISK HARROW
FRONT GANG

Ref. No.	Part No.	Description	No. Required			
			28 Blade	32 Blade	36 Blade	40 Blade
1	1346	Frame — Gang 57	2	—	—	—
1	1177	Frame — Gang 60-1/4	—	2	—	—
1	1507	Frame — Gang 70-1/2	—	—	2	—
1	1509	Frame — Gang 79-3/4	—	—	—	2
2	1606	Riser — Bearing	—	2	6	6
2	1607	Riser — Bearing (not shown)	2	—	—	—
3	5448	Plate — Clamp	2	6	6	6
4	1858	Riser — Bearing	2	2	2	2
5	7671	Plate — Pivot	2	2	2	2
6	10130	Bolt — Carriage 5/8 x 5 NC, PL	20	40	40	40
7	10299	Nut — Lock 5/8 NC, PL	28	50	52	52
8	9557	Mount — Scraper Bar	8	10	12	12
9	6513	Bolt — "U"	8	8	10	12
10	10300	Nut — Lock 3/4 NC, PL	16	16	20	24
11	1194	Scraper — RH	6	7	8	9
12	1195	Scraper — LH	6	7	8	9
13	6005	Bar — Scraper 53-1/2	2	—	—	—
13	5475	Bar — Scraper 58-5/8	—	2	—	—
13	5608	Bar — Scraper 68	—	—	2	—
13	5609	Bar — Scraper 77	—	—	—	2
14	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	8	8	10	12
15	11094	Bolt — Carriage 1/2 x 1-3/4 NC, PL	24	28	32	36
16	10395	Nut — Lock 1/2 NC, PL	24	28	32	36
17	9443	Bolt — Gang 7 Blade 61-15/16	2	—	—	—
17	9444	Bolt — Gang 8 Blade 71-1/8	—	2	—	—
17	9440	Bolt — Gang 4 Blade 34-3/8	—	—	2	2
17	9441	Bolt — Gang 5 Blade 43-3/8	—	—	2	—
17	9442	Bolt — Gang 6 Blade 52-3/4	—	—	—	2
18	9578	Washer — Bumper	2	2	2	2
19	2404	Washer — Bumper	—	—	2	2
20	9577	Nut — Gang Bolt 1-1/2 Special	2	2	2	2
21	10910	Pin — Roll 5/16 x 2-1/4	2	2	4	4
22	5483	Bell — End — Small	4	4	8	8
23	5484	Bell — End — Large	4	4	8	8
24	G11071	Bearing	4	4	8	8
25	G2668	Housing	4	4	8	8
26	11064	Ring — Snap	4	4	8	8
27	10606	Fitting — Grease 1/8 NPT	4	4	8	8
28	545	Spool — Spacer	8	10	6	8
29	1222	Washer — End Gang	2	2	4	4
30	5622	Plate — Lock	2	2	4	4
31	10489	Nut — Hex 1-1/2 NF, CH	2	2	4	4
32	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	4	4	8	8
33	10619	Washer — Lock 7/16 PL	4	4	8	8
34	10618	Nut — Hex 7/16 NC, PL	4	4	8	8
35	3250	Blade — 24" Dia. 1/4 CO	14	16	18	20
36	3255	Blade — 24" Dia. 1/4 Plain	14	16	18	20
35	2455	Blade — 24" Dia. 3/16 CO	14	16	18	20
36	3253	Blade — 24" Dia. 3/16 Plain	14	16	18	20
37	3266	Blade — 14" Dia. 11 Ga. Plain	14	16	18	20
38	6397	Support — Housing — Front	4	4	8	8
39	6398	Support — Housing — Rear	4	4	8	8
40	10579	Bolt — Carriage 3/4 x 3 NF, GR5	8	8	16	16
41	10078	Washer — Cut 3/4	8	8	16	16
42	10002	Washer — Lock 3/4	8	8	16	16
43	10585	Nut — Hex 3/4 NF, CH	8	8	16	16
44	10872	Washer — Cut 1-3/8 PL	—	—	2	2
45	10226	Nut — Gang Bolt 1-1/2 NF Slotted	—	—	2	2
	8970	Spacer — (not shown)	AR	AR	AR	AR

REAR GANG — WTF5

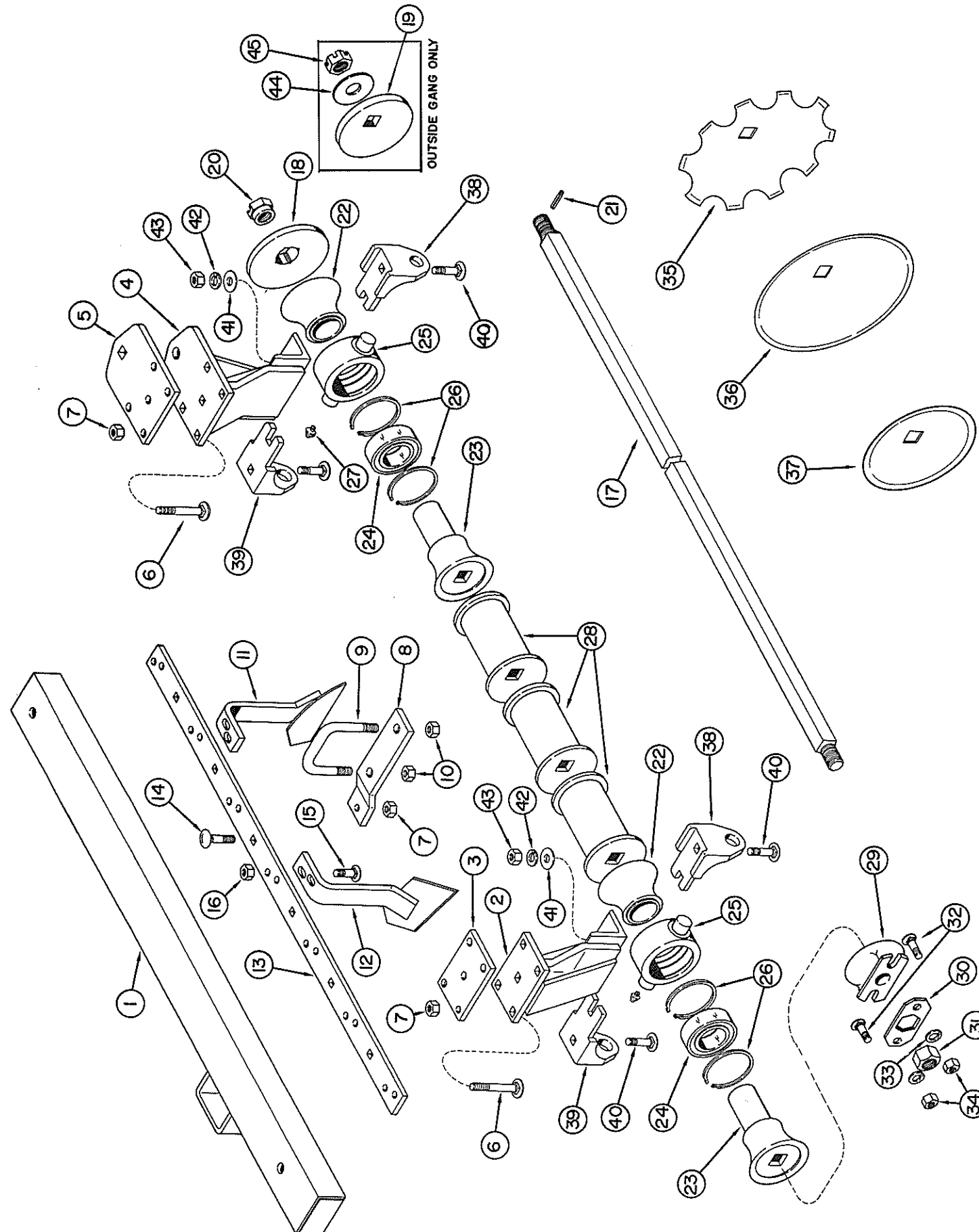


AMCO WTF5 SERIES DISK HARROW

REAR GANG

Ref. No.	Part No.	Description	No. Required			
			28 Blade	32 Blade	36 Blade	40 Blade
1	1348	Frame — Gang 58-3/4	2	—	—	—
1	1178	Frame — Gang 67-7/8	—	2	—	—
1	1508	Frame — Gang 77	—	—	2	—
1	1510	Frame — Gang 86-1/4	—	—	—	2
2	1606	Riser — Bearing	4	8	8	8
3	5448	Plate — Clamp	4	8	8	8
4	10130	Bolt — Carriage 5/8 x 5 NC, PL	20	40	40	40
5	10299	Nut — Lock 5/8 NC, PL	28	50	52	52
6	9557	Mount — Scraper Bar	8	10	12	12
7	6513	Bolt — "U"	8	10	12	12
8	10300	Nut — Lock 3/4 NC, PL	16	20	24	24
9	1194	Scraper — RH	6	7	8	9
10	1195	Scraper — LH	6	7	8	9
11	6005	Bar — Scraper 53-1/2	2	—	—	—
11	5475	Bar — Scraper 58-5/8	—	2	—	—
11	5608	Bar — Scraper 68	—	—	2	—
11	5609	Bar — Scraper 77	—	—	—	2
12	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	8	8	10	12
13	11094	Bolt — Carriage 1/2 x 1-3/4 NC, PL	24	28	32	36
14	10395	Nut — Lock 1/2 NC, PL	24	28	32	36
15	9443	Bolt — Gang 7 Blade 61-15/16	2	—	—	—
15	9444	Bolt — Gang 8 Blade 71-1/8	—	2	—	—
15	9440	Bolt — Gang 4 Blade 34-3/8	—	—	2	2
15	9441	Bolt — Gang 5 Blade 43-3/8	—	—	2	—
15	9442	Bolt — Gang 6 Blade 52-3/4	—	—	—	2
16	2404A	Washer — Bumper	2	2	2	2
17	2404	Washer — Bumper	—	2	2	2
18	10226	Nut — Gang Bolt 1-1/2 NF Slotted	2	2	4	4
19	10872	Washer — Cut 1-3/8 PL	2	2	4	4
20	10910	Pin — Roll 5/16 x 2-1/4	2	2	4	4
21	5483	Bell — End — Small	4	4	8	8
22	5484	Bell — End — Large	4	4	8	8
23	G11071	Bearing	4	4	8	8
24	G2668	Housing	4	4	8	8
25	11064	Ring — Snap	4	4	8	8
26	10606	Fitting — Grease 1/8 NPT	4	4	8	8
27	545	Spool — Spacer	8	10	6	8
28	1222	Washer — End Gang	2	2	4	4
29	5622	Plate — Lock	2	2	4	4
30	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	4	4	8	8
31	10619	Washer — Lock 7/16 PL	4	4	8	8
32	10618	Nut — Hex 7/16 NC, PL	4	4	8	8
33	3250	Blade — 24" Dia 1/4 CO	14	16	18	20
34	3255	Blade — 24" Dia 1/4 Plain	14	16	18	20
35	3266	Blade — 14" Dia 11 Ga. Plain Back	14	16	18	20
36	6397	Support — Housing — Front	4	4	8	8
37	6398	Support — Housing — Rear	4	4	8	8
38	10579	Bolt — Carriage 3/4 x 3 NF, GR5	8	8	16	16
39	10078	Washer — Cut 3/4	8	8	16	16
40	10002	Washer — Lock 3/4	8	8	16	16
41	10585	Nut — Hex 3/4 NF, CH	8	8	16	16
42	10489	Nut — Hex 1-1/2 NF, CH	2	2	4	4
	8970	Spacer — (not shown)	AR	AR	AR	AR

FRONT GANG — WTF6

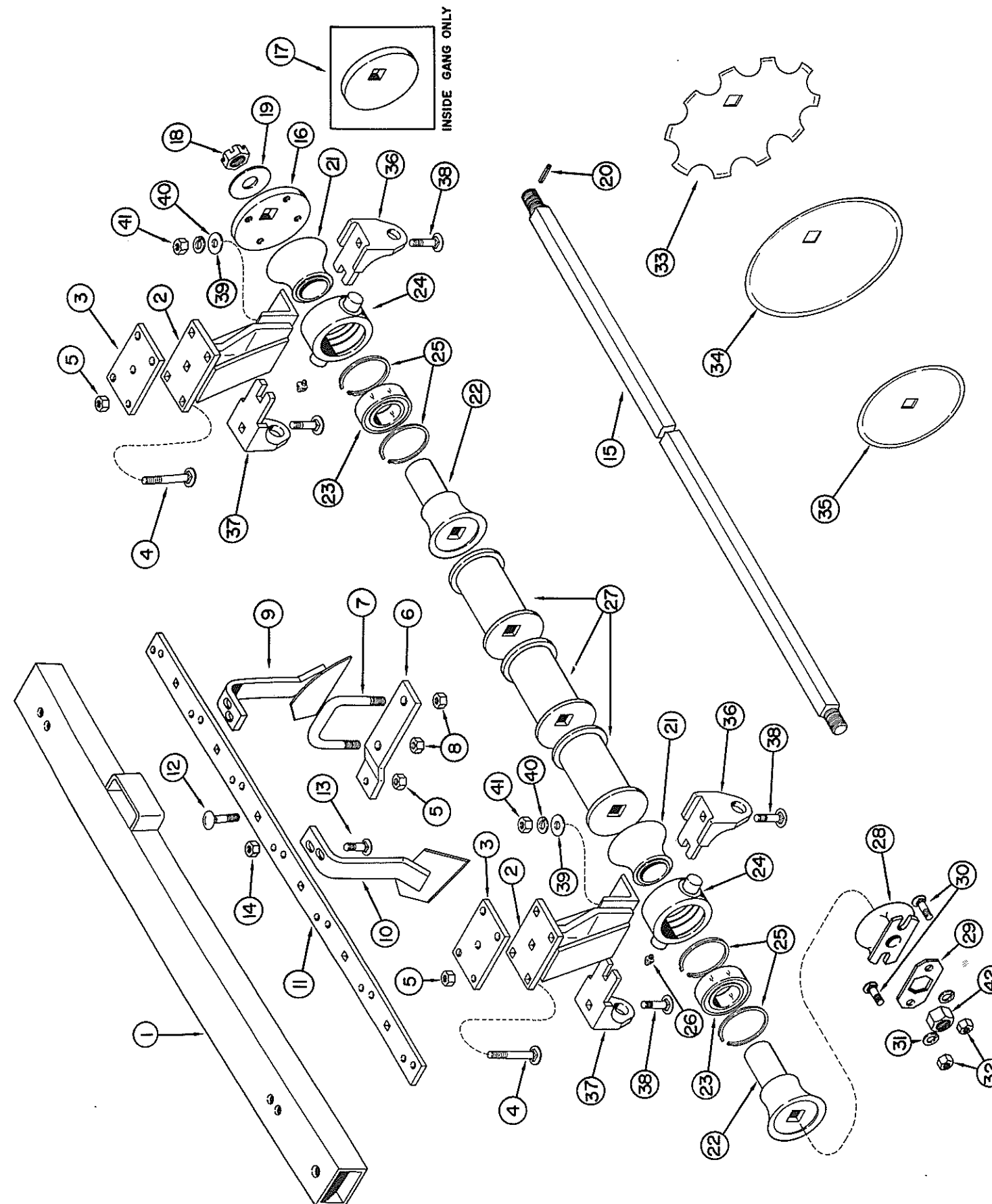


AMCO WTF6 SERIES DISK HARROW

FRONT GANG

Ref. No.	Part No.	Description	No. Required			
			28 Blade	32 Blade	36 Blade	40 Blade
1	1346	Frame — Gang 57	2	—	—	—
1	1177	Frame — Gang 60-1/4	—	2	—	—
1	1507	Frame — Gang 70-1/2	—	—	2	—
1	1509	Frame — Gang 79-3/4	—	—	—	2
2	1606	Riser — Bearing	—	2	6	6
2	1607	Riser — Bearing (not shown)	2	—	—	—
3	5448	Plate — Clamp	2	2	6	6
4	1858	Riser — Bearing	2	2	2	2
5	7671	Plate — Pivot	2	2	2	2
6	10130	Bolt — Carriage 5/8 x 5 NC, PL	20	20	40	40
7	10229	Nut — Lock 5/8 NC, PL	28	28	50	52
8	9557	Mount — Scraper Bar	8	8	10	12
9	6513	Bolt — "U"	8	8	10	12
10	10300	Nut — Lock 3/4 NC, PL	16	16	20	24
11	1194	Scraper — RH	6	7	8	9
12	1195	Scraper — LH	6	7	8	9
13	6005	Bar — Scraper 53-1/2	2	—	—	—
13	5475	Bar — Scraper 58-5/8	—	2	—	—
13	5608	Bar — Scraper 68	—	—	2	—
13	5609	Bar — Scraper 77	—	—	—	2
14	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	8	8	10	12
15	11094	Bolt — Carriage 1/2 x 1-3/4 NC, PL	24	28	32	36
16	10395	Nut — Lock 1/2 NC, PL	24	28	32	36
17	9443	Bolt — Gang 7 Blade 61-3/4	2	—	—	—
17	9444	Bolt — Gang 8 Blade 71-1/8	—	2	—	—
17	9440	Bolt — Gang 4 Blade 34-3/8	—	—	2	2
17	9441	Bolt — Gang 5 Blade 43-3/8	—	—	2	—
17	9442	Bolt — Gang 6 Blade 52-3/4	—	—	—	2
18	9578	Washer — Bumper	2	2	2	2
19	2404	Washer — Bumper	—	—	2	2
20	9577	Nut — Gang Bolt 1-1/2 Special	2	2	2	2
21	10910	Pin — Roll 5/16 x 2-1/4	2	2	4	4
22	6400	Bell — End — Small	4	4	8	8
23	6401	Bell — End — Large	4	4	8	8
24	G10218	Bearing	4	4	8	8
25	G6404	Housing	4	4	8	8
26	11072	Ring — Snap	8	8	16	16
27	10606	Fitting — Grease 1/8 NPT	4	4	8	8
28	545	Spool — Spacer	8	10	6	8
29	1222	Washer — End Gang	2	2	4	4
30	5622	Plate — Lock	2	2	4	4
31	10489	Nut — Hex 1-1/2 NF, CH	2	2	4	4
32	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	4	4	8	8
33	10619	Washer — Lock 7/16 PL	4	4	8	8
34	10618	Nut — Hex 7/16 NC, PL	4	4	8	8
35	3250	Blade — 24" Dia 1/4 CO	16	16	18	20
36	3255	Blade — 24" Dia 1/4 Plain	16	16	18	20
37	3266	Blade — 14" Dia 11 Ga. Plain	16	16	18	20
35	2456	Blade — 26" Dia 1/4 CO	16	16	18	20
36	3263	Blade — 26" Dia 1/4 Plain	16	16	18	20
38	6405	Support — Housing — Front	4	4	8	8
39	6406	Support — Housing — Rear	4	4	8	8
40	10579	Bolt — Carriage 3/4 x 3 NF, GR5	8	8	16	16
40	10078	Washer — Cut 3/4	8	8	16	16
42	10002	Washer — Lock 3/4	8	8	16	16
43	10585	Nut — Hex 3/4 NF, CH	8	8	16	16
44	10872	Washer — Cut 1-3/8 PL	—	—	2	2
45	10226	Nut — Gang Bolt 1-1/2 NF Slotted	—	—	2	2
	8970	Spacer — (not shown)	AR	AR	AR	AR

REAR GANG — WTF6

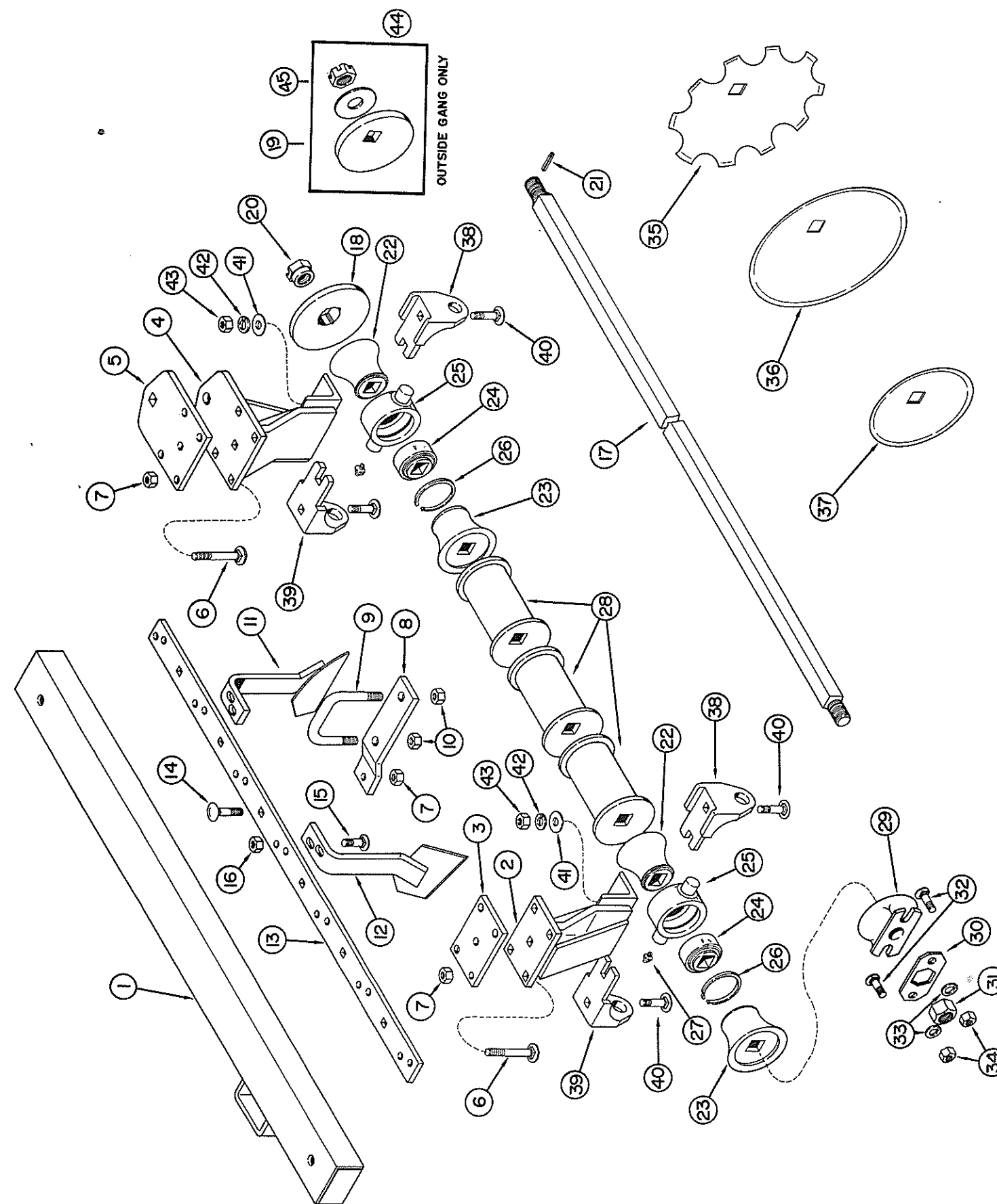


AMCO WTF6 SERIES DISK HARROW

REAR GANG

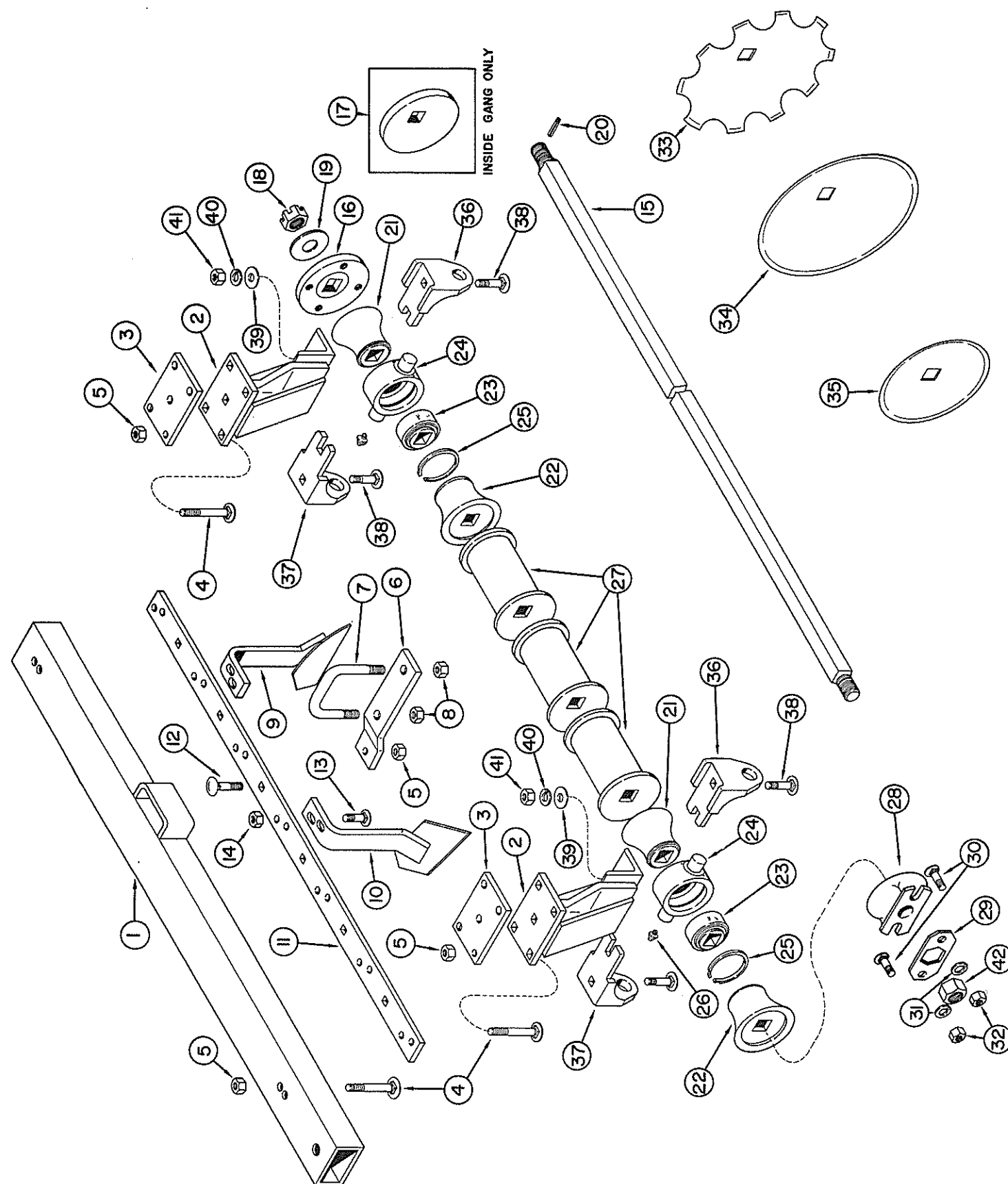
Ref. No.	Part No.	Description	No. Required			
			28 Blade	32 Blade	36 Blade	40 Blade
1	1348	Frame — Gang 58-3/4	2	—	—	—
1	1178	Frame — Gang 67-7/8	—	2	—	—
1	1508	Frame — Gang 77	—	—	2	—
1	1510	Frame — Gang 86-1/4	—	—	—	2
2	1606	Riser — Bearing	4	8	8	8
3	5448	Plate — Clamp	4	8	8	8
4	10130	Bolt — Carriage 5/8 x 5 NC, PL	20	20	40	40
5	10299	Nut — Lock 5/8 NC, PL	28	28	50	52
6	9557	Mount — Scraper Bar	8	8	10	12
7	6513	Bolt — "U"	8	8	10	12
8	10300	Nut — Lock 3/4 NC, PL	16	16	20	24
9	1194	Scraper — RH	6	7	8	9
10	1195	Scraper — LH	6	7	8	9
11	6005	Bar — Scraper 53-1/2	2	—	—	—
11	5475	Bar — Scraper 58-5/8	—	2	—	—
11	5608	Bar — Scraper 68	—	—	2	—
11	5609	Bar — Scraper 77	—	—	—	2
12	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	8	8	10	12
13	11094	Bolt — Carriage 1/2 x 1-3/4 NC, PL	24	28	32	36
14	10395	Nut — Lock 1/2 NC, PL	24	28	32	36
15	9443	Bolt — Gang 7 Blade 61-15/16	2	—	—	—
15	9444	Bolt — Gang 8 Blade 71-1/8	2	2	—	—
15	9440	Bolt — Gang 4 Blade 34-3/8	—	—	2	2
15	9441	Bolt — Gang 5 Blade 43-3/8	—	—	2	—
15	9442	Bolt — Gang 6 Blade 52-3/4	—	—	—	2
16	2404A	Washer — Bumper	2	2	2	2
17	2404	Washer — Bumper	—	—	2	2
18	10226	Nut — Gang Bolt 1-1/2 NF Slotted	2	2	4	4
19	10872	Washer — Cut 1-3/8 PL	2	2	4	4
20	10910	Pin — Roll 5/16 x 2-1/4	2	2	4	4
21	6400	Bell — End — Small	4	4	8	8
22	6401	Bell — End — Large	4	4	8	8
23	G10218	Bearing	4	4	8	8
24	G6404	Housing	4	4	8	8
25	11072	Ring — Snap	4	4	8	8
26	10606	Fitting — Grease 1/8 NPT	4	4	8	8
27	545	Spool — Spacer	8	10	6	8
28	1222	Washer — End Gang	2	2	4	4
29	5622	Plate — Lock	2	2	4	4
30	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	4	4	8	8
31	10619	Washer — Lock 7/16 PL	4	4	8	8
32	10618	Nut — Hex 7/16 NC, PL	4	4	8	8
33	3250	Blade — 24" Dia 1/4 CO	14	16	18	20
34	3255	Blade — 24" Dia 1/4 Plain	14	16	18	20
35	3266	Blade — 14" Dia 11 Ga. Plain Back	14	16	18	20
33	2456	Blade — 26" Dia 1/4 CO	14	16	18	20
34	3263	Blade — 26" Dia 1/4 Plain	14	16	18	20
36	6405	Support — Housing — Front	4	4	8	8
37	6406	Support — Housing — Rear	4	4	8	8
38	10579	Bolt — Carriage 3/4 x 3 NF, GR5	8	8	16	16
39	10078	Washer — Cut 3/4	8	8	16	16
40	10002	Washer — Lock 3/4	8	8	16	16
41	10585	Nut — Hex 3/4 NF, CH	8	8	16	16
42	10489	Nut — Hex 1-1/2 NF, CH	2	2	4	4
	8970	Spacer — (not shown)	AR	AR	AR	AR

FRONT GANG — WTJ5

AMCO WTJ5 SERIES DISK HARROW
FRONT GANG

Ref. No.	Part No.	Description	No. Required		
			28 Blade	32 Blade	36 Blade
1	1451	Frame — Gang 60-1/4.....	2	—	—
1	1642	Frame — Gang 71-3/4.....	—	2	—
1	0610	Frame — Gang 82	—	—	2
2	1606	Riser — Bearing	2	6	6
3	5448	Plate — Clamp	2	6	6
4	1859	Riser — Bearing	2	2	2
5	7672	Plate — Pivot	2	2	2
6	10130	Bolt — Carriage 5/8 x 5 NC, PL	20	40	40
7	10299	Nut — Lock 5/8 NC, PL.....	28	48	50
8	9557	Mount — Scraper Bar	8	8	10
9	6513	Bolt — "U"	8	8	10
10	10300	Nut — Lock 3/4 NC, PL.....	16	16	20
11	1194	Scraper — RH	6	7	8
12	1195	Scraper — LH	6	7	8
13	6387	Bar — Scraper 57.....	2	—	—
13	6945	Bar — Scraper 67-3/4	—	2	—
13	9784	Bar — Scraper 78-3/8	—	—	2
14	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	8	8	10
15	11094	Bolt — Carriage 1/2 x 1-3/4 NC, PL	24	28	32
16	10395	Nut — Lock 1/2 NC, PL.....	24	28	32
17	9444	Bolt — Gang 7 Blade 71-1/8	2	—	—
17	9449	Bolt — Gang 4 Blade 38-3/4	—	4	2
17	9450	Bolt — Gang 5 Blade 49-1/2	—	—	2
18	9578	Washer — Bumper	2	2	2
19	2404	Washer — Bumper	—	2	2
20	9577	Nut — Gang Bolt 1-1/2 Special	2	2	2
21	10910	Pin — Roll 5/16 x 2-1/4	2	4	4
22	5481	Bell — End — Small.....	4	8	8
23	5482	Bell — End — Large.....	4	8	8
24	G11071	Bearing	4	8	8
25	G2668	Housing	4	8	8
26	11064	Ring — Snap	4	8	8
27	10606	Fitting — Grease 1/8 NPT.....	4	8	8
28	1296	Spool — Spacer	8	4	6
29	1222	Washer — End Gang	2	4	4
30	5622	Plate — Lock	2	4	4
31	10489	Nut — Hex 1-1/2 NF, CH	2	4	4
32	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	4	8	8
33	10619	Washer — Lock 7/16 PL	4	8	8
34	10618	Nut — Hex 7/16 NC, PL	4	8	8
35	3250	Blade — 24" Dia. 1/4 CO	14	16	18
36	3255	Blade — 24" Dia. 1/4 Plain	14	16	18
37	3266	Blade — 14" Dia. 11 Ga. Plain	14	16	18
38	6397	Support — Housing — Front.....	4	8	8
39	6398	Support — Housing — Rear	4	8	8
40	10579	Bolt — Carriage 3/4 x 3 NF, GR5.....	8	16	16
41	10078	Washer — Cut 3/4	8	16	16
42	10002	Washer — Lock	8	16	16
43	10585	Nut — Hex 3/4 NC, CH	8	16	16
44	10872	Washer — Cut 1-3/8 PL	—	2	2
45	10226	Nut — Gang Bolt 1-1/2 NF Slotted	—	2	2
	8970	Spacer — (not shown)	AR	AR	AR

REAR GANG — WTJ5

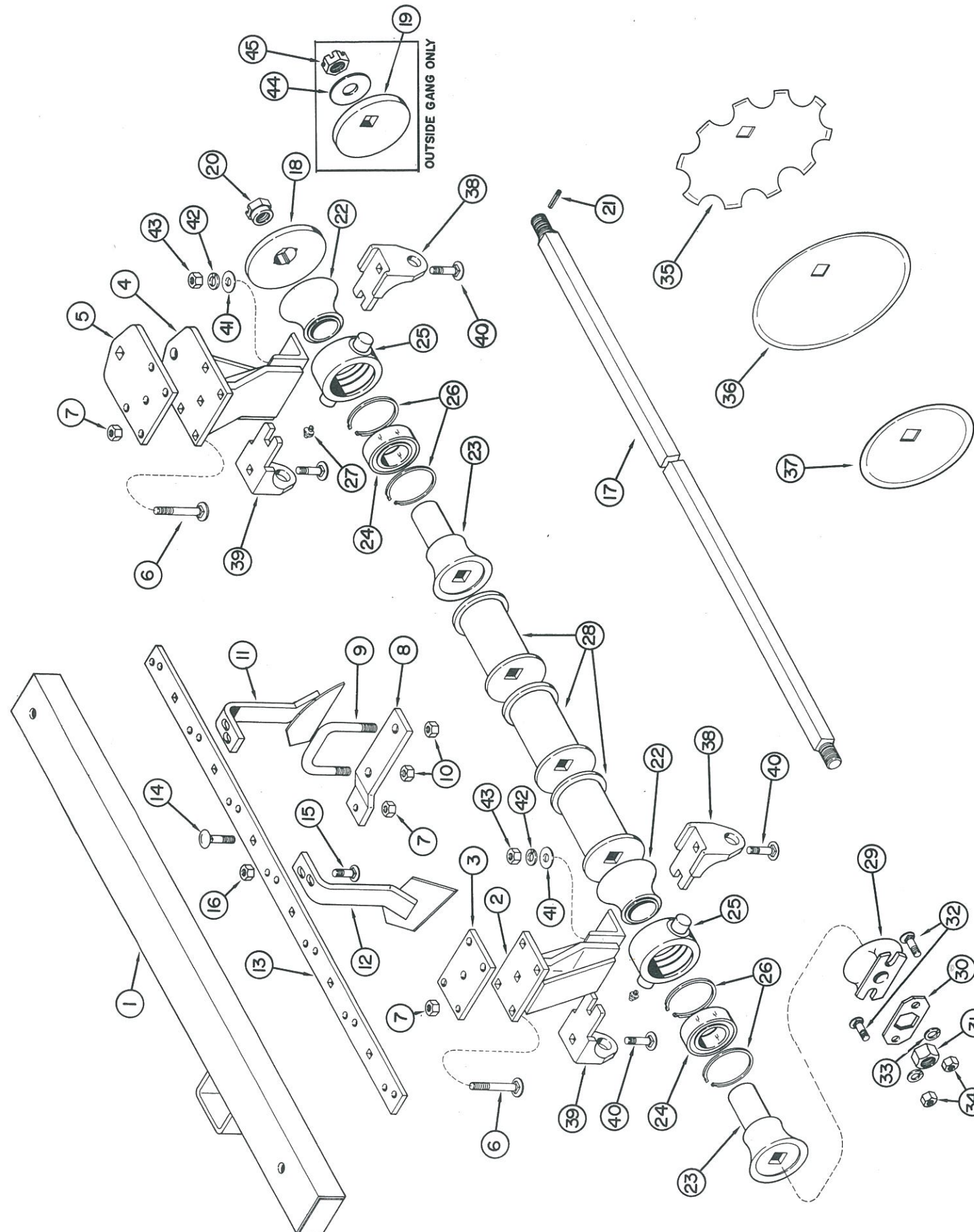


AMCO WTJ5 SERIES DISK HARROW REAR GANG

Ref. No.	Part No.	Description	No. Required		
			28 Blade	32 Blade	36 Blade
1	1453	Frame — Gang 67-7/8.....	2	—	—
1	1643	Frame — Gang 78-5/8.....	—	2	—
1	0611	Frame — Gang 89-1/2.....	—	—	2
2	1606	Riser — Bearing	4	6	6
3	5448	Plate — Clamp	4	6	6
4	10130	Bolt — Carriage 5/8 x 5 NC, PL	20	30	30
5	10299	Nut — Lock 5/8 NC, PL.....	28	38	40
6	9557	Mount — Scraper Bar	8	8	10
7	6513	Bolt — "U"	8	8	10
8	10300	Nut — Lock 3/4 NC, PL.....	16	16	20
9	1194	Scraper — RH	6	7	8
10	1195	Scraper — LH	6	7	8
11	6387	Bar — Scraper 57.....	2	—	—
11	6945	Bar — Scraper 67-3/4	—	2	—
11	9784	Bar — Scraper 78-3/8	—	—	2
12	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	8	8	10
13	11094	Bolt — Carriage 1/2 x 1-3/4 NC, PL	24	28	32
14	10395	Nut — Lock 1/2 NC, PL.....	24	28	32
15	9444	Bolt — Gang 7 Blade 71-1/8	2	—	—
15	9453	Bolt — Gang 8 Blade 81-3/4	—	2	—
15	9454	Bolt — Gang 9 Blade 92-1/2	—	—	2
16	2404A	Washer — Bumper	2	2	2
18	10226	Nut — Gang Bolt 1-1/2 NF Slotted	2	2	2
19	10872	Washer — Cut 1-3/8 PL.....	2	2	2
20	10910	Pin — Roll 5/16 x 2-1/4	2	2	2
21	5481	Bell — End — Small.....	4	6	6
22	5482	Bell — End — Large.....	4	6	6
23	G11071	Bearing	4	6	6
24	G2668	Housing	4	6	6
25	11064	Ring — Snap	4	6	6
26	10606	Fitting — Grease 1/8 NPT.....	4	6	6
27	1296	Spool — Spacer	8	8	10
28	1222	Washer — End Gang	2	2	2
29	5622	Plate — Lock	2	2	2
30	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	4	4	4
31	10619	Washer — Lock 7/16 PL	4	4	4
32	10618	Nut — Hex 7/16 NC, PL	4	4	4
33	3250	Blade — 24" Dia 1/4 CO	14	16	18
34	3255	Blade — 24" Dia 1/4 Plain	14	16	18
35	3266	Blade — 14" Dia 11 Ga. Plain Back	14	16	18
36	6397	Support — Housing — Front.....	4	6	6
37	6398	Support — Housing — Rear	4	6	6
38	10579	Bolt — Carriage 3/4 x 3 NF, GR5.....	8	12	12
39	10078	Washer — Cut 3/4	8	12	12
40	10002	Washer — Lock 3/4	8	12	12
41	10585	Nut — Hex 3/4 NF, CH	8	12	12
42	10489	Nut — Hex 1-1/2 NF, CH	2	2	2
	8970	Spacer — (not shown)	AR	AR	AR

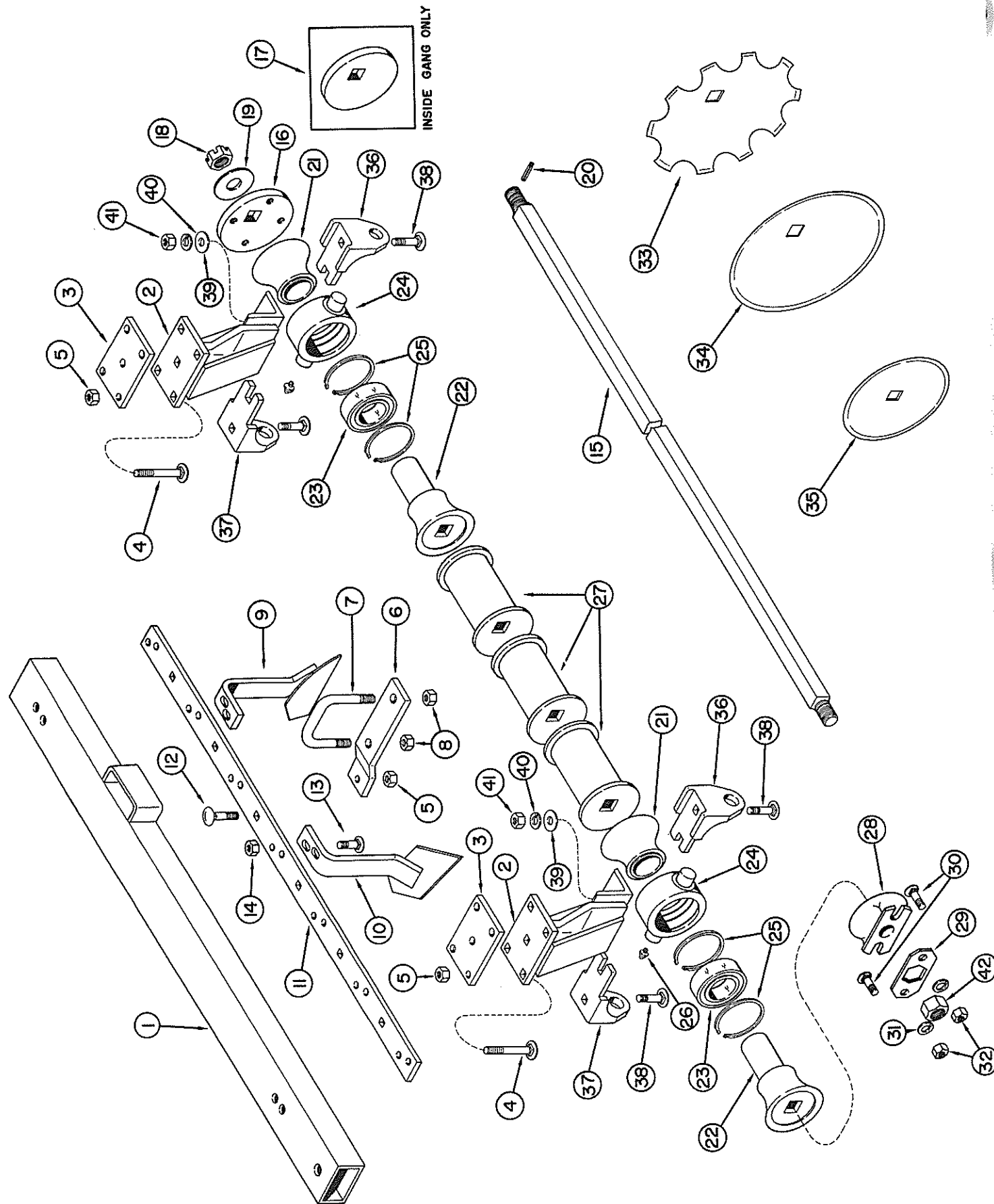
FRONT GANG — WTJ6

3 pages Alvin Denny
707-678-9788

AMCO WTJ6 SERIES DISK HARROW
FRONT GANG

Ref. No.	Part No.	Description	No. Required		
			28 Blade	32 Blade	36 Blade
1	1451	Frame — Gang 60-1/4.....	2	—	—
1	1642	Frame — Gang 71-3/4.....	—	2	—
1	0610	Frame — Gang 82.....	—	—	2
2	1606	Riser — Bearing.....	—	3	6
2	1607	Riser — Bearing (Not Shown).....	2	—	—
3	5448	Plate — Clamp.....	2	6	6
4	1858	Riser — Bearing.....	2	2	2
5	7671	Plate — Pivot.....	2	2	2
6	10130	Bolt — Carriage 5/8 x 5 NC, PL.....	20	30	40
7	10229	Nut — Lock 5/8 NC, PL.....	28	38	50
8	9557	Mount — Scraper Bar.....	8	8	10
9	6513	Bolt — "U".....	8	8	10
10	10300	Nut — Lock 3/4 NC, PL.....	16	16	20
11	1194	Scraper — RH.....	6	7	8
12	1195	Scraper — LH.....	6	7	8
13	6387	Bar — Scraper 57.....	2	—	—
13	6945	Bar — Scraper 67-3/4.....	—	2	—
13	9784	Bar — Scraper 78-3/8.....	—	—	2
14	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL.....	8	8	10
15	11094	Bolt — Carriage 1/2 x 1-3/4 NC, PL.....	24	28	32
16	10395	Nut — Lock 1/2 NC, PL.....	24	28	32
17	9444	Bolt — Gang 7 Blade 71-1/8.....	2	—	—
17	9449	Bolt — Gang 4 Blade 38-3/4.....	—	4	2
17	9450	Bolt — Gang 5 Blade 49-1/2.....	—	—	2
18	9578	Washer — Bumper.....	2	2	2
19	2402	Washer — Bumper.....	—	2	2
20	9577	Nut — Gang Bolt 1-1/2 Special.....	2	2	2
21	10910	Pin — Roll 5/16 x 2-1/4.....	2	2	4
22	6402	Bell — End — Small.....	4	8	8
23	6403	Bell — End — Large.....	4	8	8
24	G10218	Bearing.....	4	8	8
25	G6404	Housing.....	4	8	8
26	11072	Ring — Snap.....	8	16	16
27	10606	Fitting — Grease 1/8 NPT.....	4	8	8
28	1296	Spool — Spacer.....	8	4	6
29	1222	Washer — End Gang.....	2	4	4
30	5622	Plate — Lock.....	2	4	4
31	10489	Nut — Hex 1-1/2 NF, CH.....	2	4	4
32	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL.....	4	8	8
33	10619	Washer — Lock 7/16 PL.....	4	8	8
34	10618	Nut — Hex 7/16 NC, PL.....	4	8	8
35	3250	Blade — 24" Dia 1/4 CO.....	14	16	18
36	3255	Blade — 24" Dia 1/4 Plain.....	14	16	18
37	3266	Blade — 14" Dia 11 Ga. Plain.....	14	16	18
35	2456	Blade — 26" Dia 1/4 CO.....	14	16	18
36	3263	Blade — 26" Dia 1/4 Plain.....	14	16	18
38	6405	Support — Housing — Front.....	4	8	8
39	6406	Support — Housing — Rear.....	4	8	8
40	10579	Bolt — Carriage 3/4 x 3 NF, GR5.....	8	16	16
41	10078	Washer — Cut 3/4.....	8	16	16
42	10002	Washer — Lock 3/4.....	8	16	16
43	10585	Nut — Hex 3/4 NF, CH.....	8	16	16
44	10872	Washer — Cut 1-3/8 PL.....	—	2	2
45	10226	Nut — Gang Bolt 1-1/2 NF Slotted.....	—	2	2
	8970	Spacer — (not shown).....	AR	AR	AR

REAR GANG — WTJ6

AMCO WTJ6 SERIES DISK HARROW
REAR GANG

Ref. No.	Part No.	Description	No Required		
			28 Blade	32 Blade	36 Blade
1	1453	Frame — Gang 67-7/8.....	2	—	—
1	1653	Frame — Gang 78-3/8.....	—	2	—
1	0611	Frame — Gang 89-1/2.....	—	—	2
2	1606	Riser — Bearing	4	6	6
3	5448	Plate — Clamp	4	6	6
4	10130	Bolt — Carriage 5/8 x 5 NC, PL	20	30	30
5	10299	Nut — Lock 5/8 NC, PL.....	28	38	40
6	9557	Mount — Scraper Bar	8	8	10
7	6513	Bolt — "U"	8	8	10
8	10300	Nut — Lock 3/4 NC, PL.....	16	16	20
9	1194	Scraper — RH	6	7	8
10	1195	Scraper — LH	6	7	8
11	6387	Bar — Scraper 57.....	2	—	—
11	6945	Bar — Scraper 67-3/4	—	2	—
11	9784	Bar — Scraper 78-3/8	—	—	2
12	10135	Bolt — Carriage 5/8 x 1-3/4 NC, PL	8	8	10
13	11094	Bolt — Carriage 1/2 x 1-3/4 NC, PL	24	28	32
14	10395	Nut — Lock 1/2 NC, PL.....	24	28	32
15	9444	Bolt — Gang 7 Blade 71-1/8	2	—	—
15	9453	Bolt — Gang 8 Blade 81-3/4	2	2	—
15	9454	Bolt — Gang 9 Blade 92-1/2	—	—	2
16	2404A	Washer — Bumper	2	2	2
17	2404	Washer — Bumper	—	—	2
18	10226	Nut — Gang Bolt 1-1/2 NF Slotted	2	2	4
19	10872	Washer — Cut 1-3/8 PL.....	2	2	4
20	10910	Pin — Roll 5/16 x 2-1/4	2	2	4
21	6402	Bell — End — Small.....	4	6	6
22	6403	Bell — End — Large.....	4	6	6
23	G10218	Bearing	4	6	6
24	G6404	Housing	4	6	6
25	11072	Ring — Snap	4	6	6
26	10606	Fitting — Grease 1/8 NPT.....	4	6	6
27	1296	Spool — Spacer	6	8	10
28	1222	Washer — End Gang	2	2	2
29	5622	Plate — Lock	2	2	2
30	10068	Bolt — Carriage 7/16 x 1-1/2 NC, PL	4	4	4
31	10619	Washer — Lock 7/16 PL	4	4	4
32	10618	Nut — Hex 7/16 NC, PL	4	4	4
33	3250	Blade — 24" Dia 1/4 CO	14	16	18
34	3255	Blade — 24" Dia 1/4 Plain	14	16	18
35	3266	Blade — 14" Dia 11 Ga. Plain Back	14	16	18
33	2456	Blade — 26" Dia 1/4 CO	14	16	18
34	3263	Blade — 26" Dia 1/4 Plain	14	16	18
36	6405	Support — Housing — Front.....	4	6	6
37	6406	Support — Housing — Rear	4	6	6
38	10579	Bolt — Carriage 3/4 x 3 NF, GR5.....	8	12	12
39	10078	Washer — Cut 3/4	8	12	12
40	10002	Washer — Lock 3/4.....	8	12	12
41	10585	Nut — Hex 3/4 NF, CH	8	12	12
42	10489	Nut — Hex 1-1/2 NF, CH	2	2	2
	8970	Spacer — (not shown)	AR	AR	AR

DECALS

①

AMCO

②

! WARNING

LOWER OR BLOCK HYDRAULICALLY
OR MECHANICALLY ELEVATED
COMPONENTS.
**BEFORE SERVICING OR WHEN
LEAVING THE EQUIPMENT**

③

MAINTENANCE INSTRUCTIONS

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

AMCO, YAZOO CITY, MISS. USA

AMCO WTF & WTJ SERIES DISK HARROW DECALS

Ref. No.	Part No.	Description	No. Reqd.
1	10948	Decal — AMCO	2
2	10941	Decal — Warning	2
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.

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 front gang outer disk blades.

Reduce speed where rocks or stumps are a factor.

ADJUSTMENTS

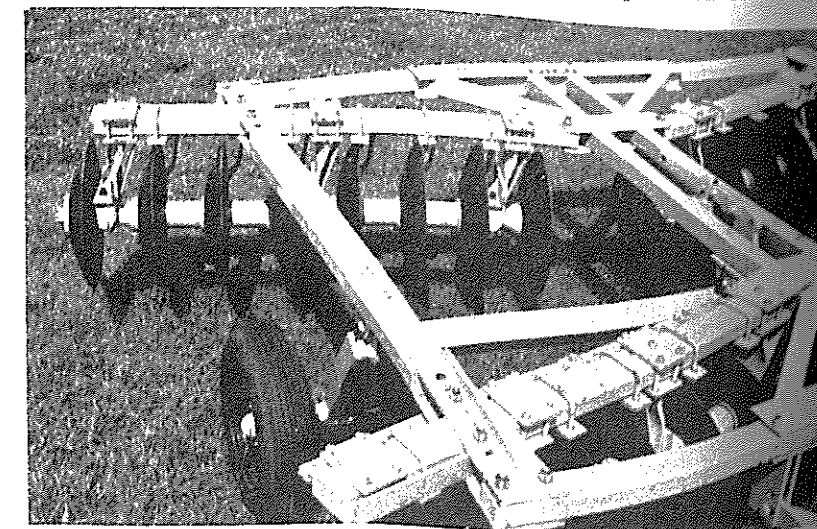
The frame of the harrow should be level when the harrow is in operation so that the front and rear disk gangs will penetrate the soil uniformly.

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 proper tractor drawbar height by attaching in 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.

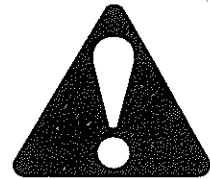
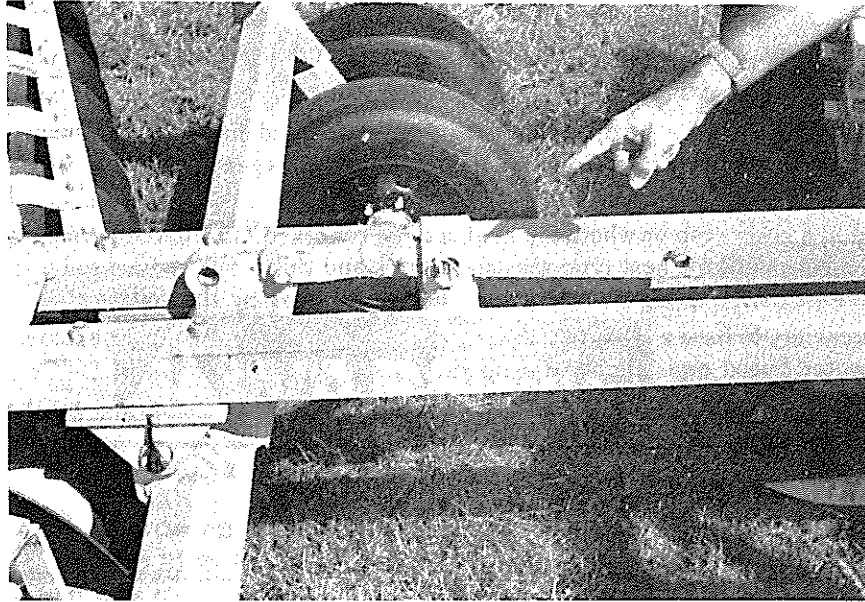


Adjust distance between rear gangs by use of holes on gang frame tubes. Make sure gangs are centered.

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

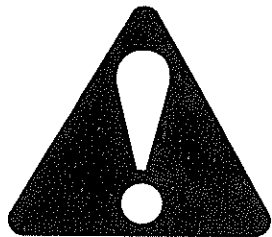
Scrapers should be adjusted to run approximately 1/16 - 1/8 inch from the disk blades. Each scraper may be adjusted individually.

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



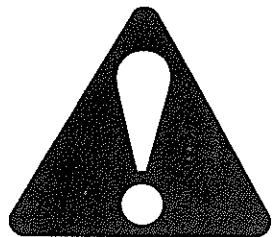
When transporting machinery over public roads, comply with your local and state laws regarding length, width, and lighting.

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 main frame. 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 main frame 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.

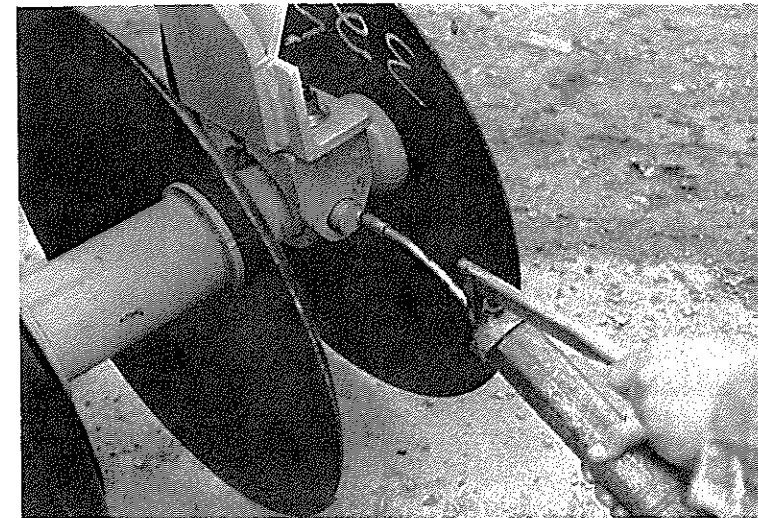
When trailing the harrow over public thoroughfares, the SMV Emblem must be used, for protection of tractor and motor vehicle operators.

Lubrication

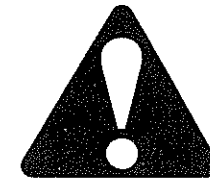
Careful and regular attention to lubrication will greatly increase the life of the Harrow. For economical and efficient operation, the proper lubrication of the frame fittings, gang bearings, and wheel bearings is essential.

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.

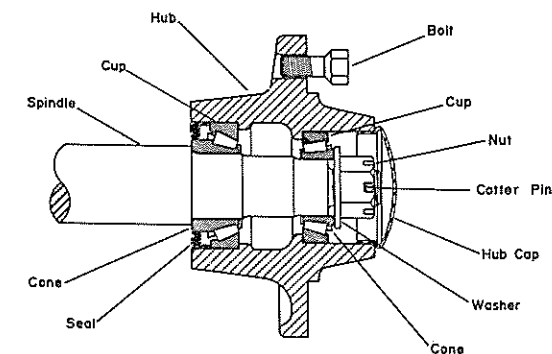


IMPORTANT: Apply grease with low pressure, low volume hand grease gun. Use care to prevent damage to bearing seals.



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 platform 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

1. Keep all bolts tight.
 - A. Check before placing in service.
 - B. Visually inspect all bolts daily.
 - C. Check after first 50 hours or one week's operation.
 - D. Check each season.
2. Keep wheel bearings properly adjusted.
 - A. Check often.
 - B. Clean and repack each season or every 300 hours.
 - C. Replace worn or damaged parts.
 - D. 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.
3. Do not run with loose disk blades. Keep gang bolts tight!
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 No. 2 gun grease (Lithium Base).

CAUTION: Use care to prevent damage to seals.
6. Disk Blade, Bearing, and Spool Replacement.
 - A. Remove the nuts that hold the gang bearing housing trunnion clamps.
 - B. Remove clamps.
 - C. Raise the harrow and roll the disk away from the frame.
 - D. Remove the gang nut lock plate.
 - E. Remove the gang hex nut from the end of the shaft.
 - F. Slide off the bearing spools, spacers, and blades.
 - G. Avoid thread damage.

- H. Install new blades.
 - I. To replace bearing, remove snap ring from housing.
 - J. Press out bearing.
 - K. Clean and wash out old grease.
 - L. Press new bearing into housing. Install snap ring. Check location of grease hole in outer ring of bearing. This hole must align with grease groove in housing.
 - M. Re-install bearing spools, spacers, and blades.
 - N. Be sure bearing housing grease fitting faces to the rear.
 - O. Be sure snap ring is toward convex (back) side of blade.
 - P. Install gang shaft hex nut. **IMPORTANT: Tighten nut to 900-1000 ft. lbs.**
 - Q. Install gang nut lock plate.
 - R. Re-install gang to standards with hanger trunnion clamps.
 - S. Lubricate bearings (see lubrication section).
 - T. Rotate gang to be sure it turns freely. The bearings must be in proper alignment to prevent unnecessary wear.
7. Proper storage will add life to your disk harrow. To prepare for storage:
- A. Clean and lubricate the machine.
 - B. Inspect and note excessively worn or broken parts so that repair or replacement can be made promptly.
 - C. Repaint where necessary and protect all unpainted surfaces with rust-preventative grease or oil.
 - D. Tighten loose bolts.
 - E. **IMPORTANT:** Whenever the disk blades or bearings are replaced, the gang bolt nut must be torqued to 900-1000 ft. lbs.
 - F. 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:

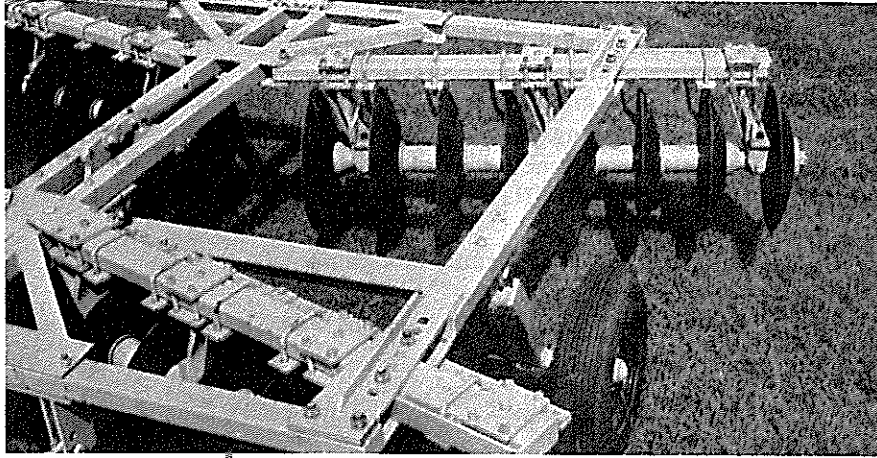
- | | |
|--------------------------|----------------------------|
| A. Hitch Tongue | G. Front Gang — RH |
| B. Main Frame | H. Front Gang — LH |
| C. Front and Rear Bars | I. Rear Gang — RH |
| D. Side Bars | J. Rear Gang — LH |
| E. Rockshaft | K. Scrapers |
| F. 4 — 15" 6-Hole Wheels | L. Scraper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

1. 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 property 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.

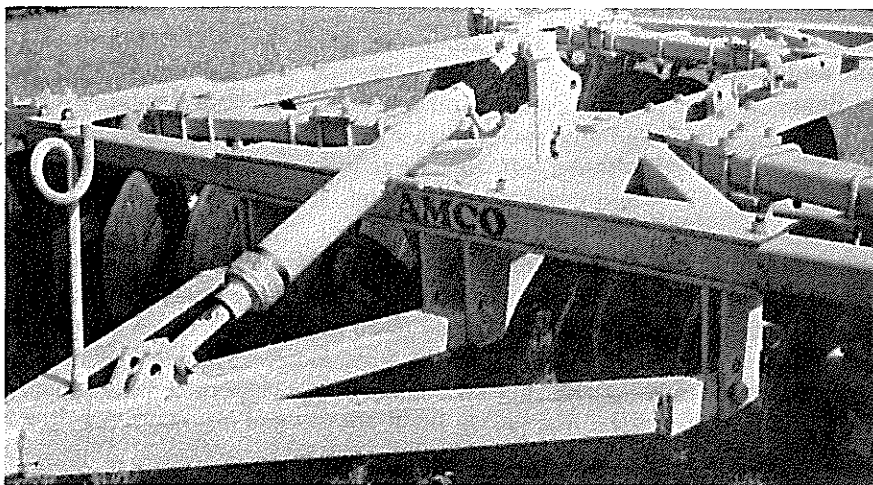


CAUTION: Use sturdy stands to prevent frame from falling!

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.