

Models
784A, 786A & 630
Defoliators

PARTS MANUAL



248890 (D)
0692

TO THE OWNER

Congratulations on the purchase of your new Art's-Way defoliator. You have selected a top quality machine designed and built with pride to give you many years of efficient, reliable service.

Many people have worked on the design, production, and delivery of this machine. The information in this manual is based on the knowledge, study and experience of these people through years of manufacturing specialized farming machinery. This manual is designed to provide you with important information regarding safety, maintenance and machine operation so you can get the best possible performance from your defoliator.

Even if you are an experienced operator of this or similar equipment, we ask you to **read this manual before running this machine**. The way you operate, adjust, and maintain this unit will have much to do with it's successful performance. Any further questions you may have about this piece of Art's-Way equipment should be directed to your local Art's-Way dealer or to Art's-Way Manufacturing Co., Inc., Armstrong, Iowa 50514 (712) 864-3131.

SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT NOTICE

Art's-Way Manufacturing Co., Inc. is continually making product improvements. In doing so, we reserve the right to make changes or add improvements to our products without obligation for equipment previously sold. Because modifications to this machine may effect the performance, function and safety of its operation, **no modifications are to be made without the written permission of Art's-Way Manufacturing Co., Inc.**

In the interest of continued safe operation of the machine, pay particular attention to the safety alert symbol throughout this manual.

ART'S-WAY MANUFACTURING CO., INC. STATEMENT OF PRODUCT LIABILITY

Art's-Way Manufacturing Co., Inc. recognizes it's responsibility to provide it's customers with a safe and efficient product. Art's-Way makes every attempt to design and manufacture it's products in accordance with all accepted engineering practices in effect at date of design. This statement should not be interpreted to mean that our products will protect against the user's own carelessness or failure to follow common safety practices as set forth in this manual, nor will Art's-Way be liable for any such act.

NOTICE TO THE CUSTOMER

The warranty for this machine appears on page 1 of this manual. The **warranty registration form in the back of this manual must be completed and returned to the factory in order to establish proper warranty. Failure to comply will result in reduced warranty allowances.**

This manual contains operating instructions for this machine only. It does not replace the manual(s) for any machine that it may be attached to or used with.

PARTS AND SERVICE

The wise purchaser of a new machine gives consideration to the following factors:

- A. ORIGINAL QUALITY
- B. AVAILABILITY OF SERVICE PARTS
- C. AVAILABILITY OF ADEQUATE SERVICE FACILITIES

Art's-Way Manufacturing Co., Inc. has an excellent dealership network ready to answer any questions you may have about your defoliator. Parts for your machine may be ordered through our dealers. When placing a parts order, please have the model and serial numbers ready. This will allow the dealer to fill your order as quickly as possible.

For your convenience, we have provided this space for you to record your model and serial numbers and date of purchase as well as your dealership name and address.

The serial number of the defoliator is located on the left front corner of the main frame.

OWNERS NAME _____

OWNERS ADDRESS _____

MODEL NUMBER _____

SERIAL NUMBER _____

PURCHASE DATE _____

DEALER NAME _____

DEALER ADDRESS _____

DEALER TELEPHONE NUMBER _____

The diagram shows a rectangular plate with four corner mounting holes. At the top center is an oval logo containing the text "Building on a" at the top, "Art's-Way" in a large script font in the middle, and "Tradition of Quality" at the bottom. Below the logo are two horizontal rectangular boxes. The first box is preceded by the text "SERIAL NO." and the second box is preceded by the text "MODEL NO.". At the bottom center of the plate, the text "Manufactured By Art's-Way Manufacturing Co., Inc. Armstrong, IA" is printed.

MACHINE SERIAL NUMBER LOCATION
(LEFT FRONT CORNER OF THE MAIN HOUSING)

SAFETY FIRST

“A careful operator is the best insurance against an accident.”

(National Safety Council)

Most accidents can be prevented if the operator fully understands how the machine functions and can anticipate situations which may produce problems and make necessary corrections before problems develop.

It is important that *all* individuals who will be operating the defoliator read this Manual carefully, paying special attention to the safety instructions which are marked by this symbol:



The American Society of Agricultural Engineers has adopted this symbol as an universal **SAFETY ALERT SYMBOL** to identify areas of potential danger if the equipment is not operated correctly. *Please be alert whenever you see this symbol in the Manual or on your machine.*

Art's-Way Manufacturing Co., Inc. strives to make our equipment as safe as it can possibly be. Art's-Way defoliators conform to all applicable safety standards at time of manufacturing. A safety conscious equipment operator makes an effective accident-prevention program complete.

Safety features and instructions for the Art's-Way defoliators are detailed elsewhere in the Operators Manual. It is the responsibility of the defoliator owner to ensure that *all* operators read and understand the Manual before they are allowed to operate the machine. (*Occupational Safety and Health Administration (OSHA) regulation 1928.57*)

***Watch for these words on machine decals and in this Manual
to alert you to important safety messages:***

- DANGER:** Immediate and specific hazard which **will** result in severe personal injury or death if proper precautions are not taken.
- WARNING:** Specific hazard or unsafe practice **could** result in severe personal injury or death if proper precautions are not taken.
- CAUTION:** A reminder of good safety practices. Personal injury **could** result if proper procedures are not followed.



SAFETY GUIDELINES



Remember, A Careful Operator is the Best Insurance Against an Accident.



READ and Understand the operators Manual and all the safety decals before operating the machine. Review safety instructions with all operators annually.

Always use proper safety precautions. Tell your workers how to work safely.

BEFORE OPERATING

Do not wear loose fitting clothing as it may catch in moving parts.

Make sure to install and/or secure all guards and shields, including the tractor power take-off master shield, before starting or operating the machine.

Be sure that the correct implement drive line parts are used and that they are properly secured.

Install safety chain when attaching machine to the tractor.

Clear the area of bystanders, especially children, when making repairs, adjustments or performing maintenance on the defoliator.

Do not allow riders.

Put all tractor and machine controls in "neutral" and disengage PTO before starting (follow starting instructions according to your tractor manual).

Operate machine only while seated on the tractor seat.

Make sure the unit is adequately blocked before working on it.

DURING OPERATION

Keep hands, feet, hair and clothing away from moving parts.

Keep all shields and guards in place.

Keep all children and bystanders away from the machine while in operation.

Do not allow riders while machine is in operation.

Do not attempt to unclog, clean or adjust machine while it is running.

Before servicing, adjusting, repairing or unplugging the machine, stop the tractor engine, lower the machine to the ground, place all controls in neutral, set parking brake, remove ignition key and wait for all moving parts to stop.

MAINTENANCE SAFETY

Follow all operating, maintenance and safety instructions found in this Manual.

Before servicing, adjusting, repairing or unplugging the machine, stop the tractor engine, lower the machine to the ground, place all controls in neutral, set parking brake, remove ignition key and wait for all moving parts to stop.

Use only tools, jacks and hoists that are of sufficient capacity for the job.

Use support blocks or safety stands when changing tires or working under the machine.

Follow good shop practices of keeping service area clean and dry and using adequate light for the job at hand.

Before applying pressure to the hydraulic system, make sure all lines, fittings and couplers are tight and in good condition.

Relieve pressure from hydraulic circuit before servicing or disconnecting from tractor.

Make sure all shields/guards are in place and properly secured when maintenance work is complete.

HYDRAULIC SAFETY

Make sure all components in the hydraulic system are kept clean and in good condition.

Replace any worn, cut, abraded, flattened or crimped hoses.

Do not make any temporary repairs to the hydraulic

SAFETY GUIDELINES

lines, fittings or hoses by using tape, clamps or cements. The hydraulic system operates under extremely high pressure and temporary repairs may fail suddenly and create a hazardous situation.

Wear proper hand and eye protection when searching for a high-pressure hydraulic leak. Use a piece of wood or cardboard as a backstop instead of hands to identify and isolate a leak. If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Serious infection or toxic reaction can develop if hydraulic fluid penetrates the surface of the skin.

Before applying pressure to the system, make sure all components are tight and that lines, hoses and couplings are not damaged.

TRANSPORTATION SAFETY

Be sure to comply with all local regulations regarding transporting equipment on public roads and highways.

Make sure the SLOW MOVING VEHICLE (SMV) emblem and all lights and reflectors required by local highway and transportation authorities are in place, clean and clearly visible to all oncoming or following traffic.

Do not allow riders while transporting.

Make sure defoliator is securely attached to the tractor and install a safety chain to the defoliator.

Do not fail to latch the tractor brakes together.

Do not exceed 20 mph (16km/h) when transporting the defoliator - reduce speed on rough roads and surfaces or when going down inclines.

Drive slowly when turning and always use turn signals on the tractor to indicate your turning intentions to other traffic.

The weight of the trailed machine should NEVER exceed the weight of the towing vehicle.

Check clearances carefully wherever machine is towed.

STORAGE SAFETY

Store the defoliator in an area away from human activity.

Do not permit children to play on or around the stored machine.

Make sure the defoliator is stored in an area with a firm and level base to prevent the machine from tipping or sinking into the ground.

TIRE SAFETY

Have a qualified tire dealer or repair service perform tire repairs.

Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.

Follow proper procedures when mounting a tire on a rim to prevent an explosion which could result in serious injury.

Do not substitute tires of lesser road rating and capacity for the original equipment tires.

ASSEMBLY SAFETY

Use adequate manpower to perform assembly procedures safely.

Assemble the defoliator in an area with sufficient space to maneuver the largest components and allow easy access to all sides of the machine.

Use only forklifts, lift cranes, jacks and tools with sufficient capacity for the loads.

Do not allow spectators in the working area.

Remember:

"The Best Operator is a Safe Operator"

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NOTES

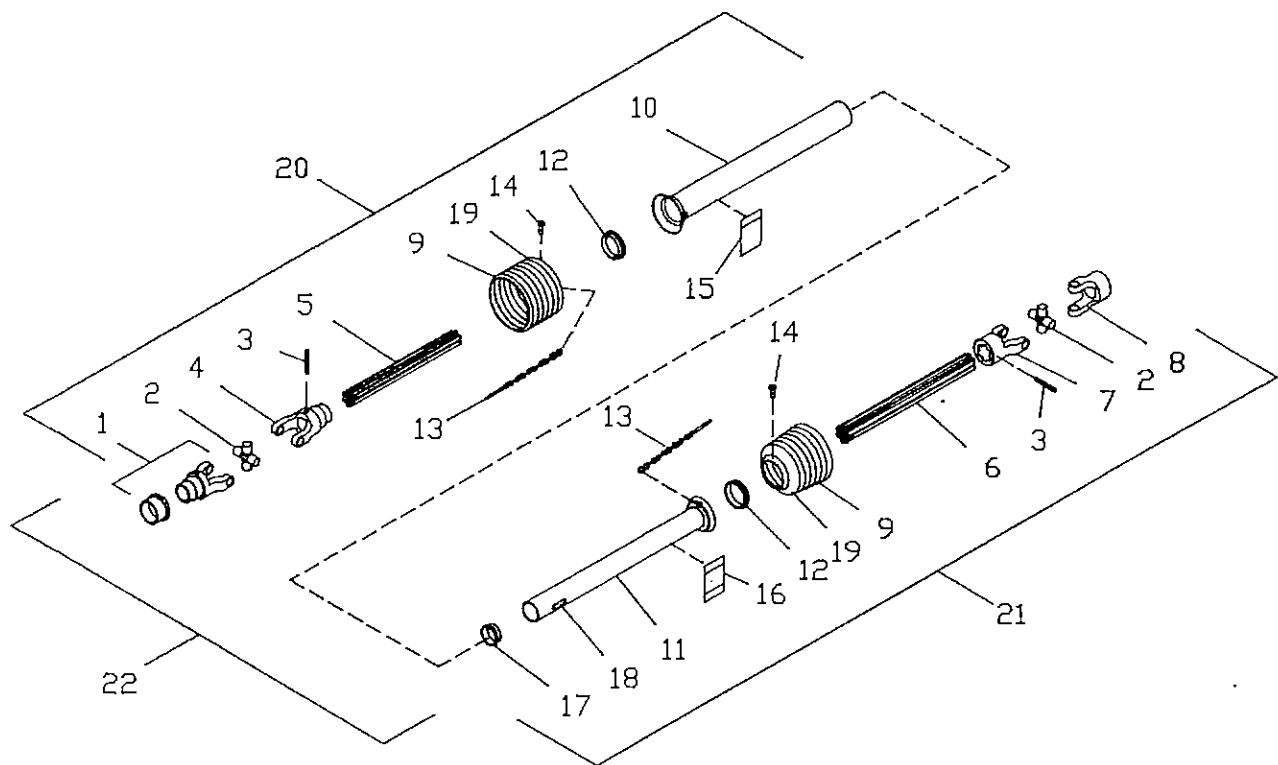
LIMITED WARRANTY

Art's-Way Manufacturing Co., Inc. warrants products it sells to be free from defects in material and workmanship for a period of one (1) year after the date of delivery to the first purchaser subject to the following conditions:

- **Art's-Way Manufacturing Co., Inc.** obligation and liability under this warranty is to repair or replace (at the company's option) any parts which upon manufacture were defective in material or workmanship.
- All parts and repairs under this warranty shall be supplied at an authorized **Art's-Way Manufacturing Co., Inc.** dealer or at the factory, at the option of **Art's-Way Manufacturing Co., Inc.**
- **Art's-Way Manufacturing Co., Inc.** warranty does not extend to parts and elements not manufactured by **Art's-Way Manufacturing Co., Inc.** and which carry the warranty of the other manufacturer.
- Transportation or shipping to an authorized dealer for necessary repairs is at the expense of the purchaser.
- **Art's-Way Manufacturing Co., Inc.** makes no other warranty expressed or implied and makes no warranty of merchantability or fitness for any particular purpose beyond that expressly stated in this warranty. **Art's-Way Manufacturing Co., Inc.** liability is limited to the terms set forth in this warranty and does not include any liability for direct, indirect, incidental or consequential damages or expense of delay and the Company's liability is limited to repair or replacement of defective parts as set forth herein the warranty.
- Any improper use, including operation after discovery of defective or worn parts, operation beyond rated capacity, substitution or parts not approved by **Art's-Way Manufacturing Co., Inc.**, or any alteration or repair by other than an authorized **Art's-Way Manufacturing Co., Inc.** dealer which affects the product materially and adversely, shall void this warranty.
- No dealer, employee or representative is authorized to change this warranty in any way or grant any other warranty unless such change is made in writing and signed by an officer of **Art's-Way Manufacturing Co., Inc.** at its home office.
- Some states do not allow limitations on how long an implied warranty lasts or exclusions of, or limitations on relief such as incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

PTO ASSEMBLY, STANDARD - 356850

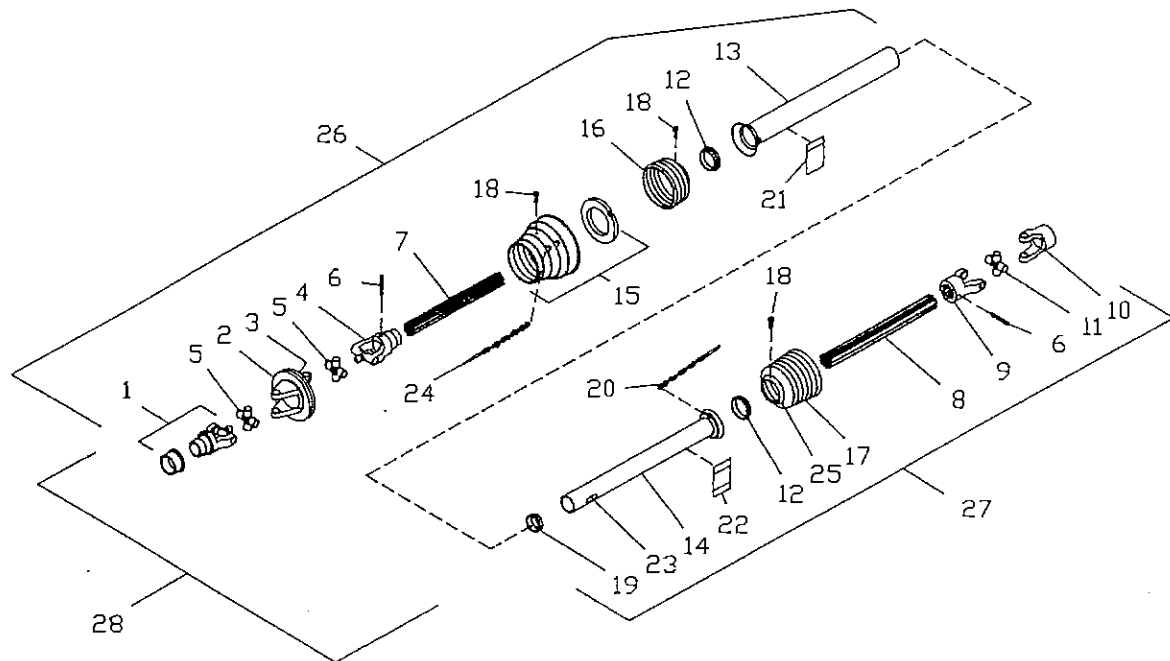
44R SERIES



ITEM	PART NUMBER	QTY	DESCRIPTION
1	354180	1	Yoke, 1-3/8"-21 SPL AS
2	182230	2	Cross & Bearing Kit
3	196740	2	Spring Pin 10 x 90
4	196730	1	Inboard Yoke S4
5	357950	1	Inner Profile S4
6	357960	1	Profile & Sleeve W.A.
7	196770	1	Inboard Yoke S5
8	345910	1	Yoke, 1-3/4" RB, 3/8" KWY
9	340140	2	Shield, Cone 7 Rib
10	357930	1	Outer Shield, Tube OVL
11	357940	1	Inner Shield Tube RND
12	182900	2	Bearing Ring, SC25
13	182890	2	Safety Chain
14	345980	2	Screw, Inner Item 9
15	268860	1	Decal, Outer-In Item 10
16	340180	1	Decal, Inner-In Item 6
17	340190	1	Support Bearing
18	196890	1	Zerk-In Item 6
19	349250	2	Reinforced Collar
	340210	1	As Col. Kit-In Item 1
20	357860	1	PTO Assy STD2500 TRC 1/2
21	357870	1	PTO Assy STD2500 IMP 1/2
22	356850	1	PTO Assy STD2500 1-3/8" Trac

PTO ASSEMBLY, CONSTANT VELOCITY - 356840

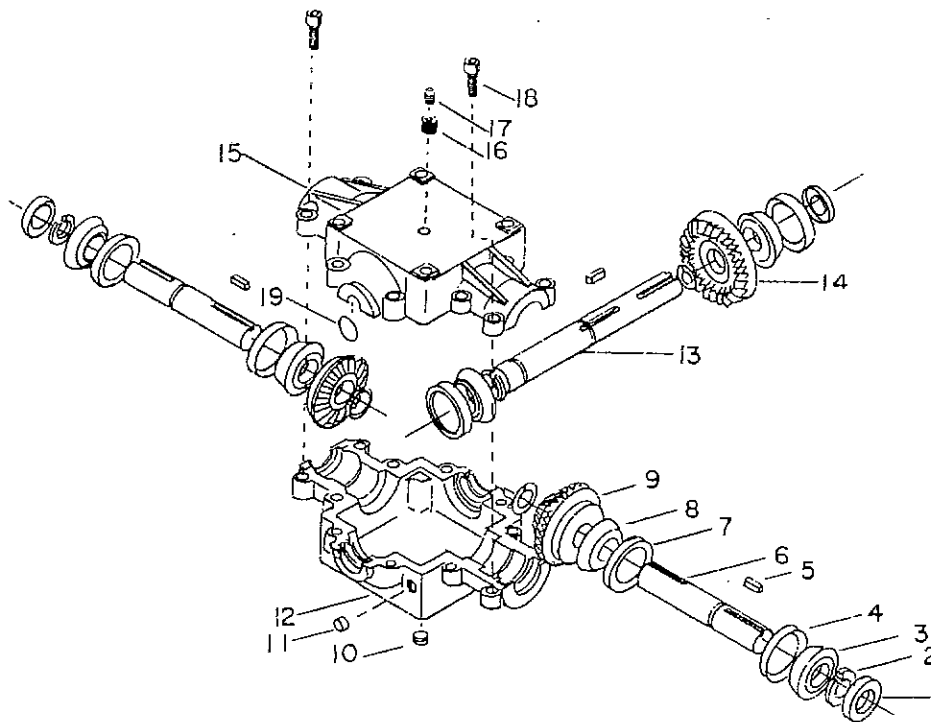
44R SERIES



ITEM	PART NUMBER	QTY	DESCRIPTION
1	345830	1	Yoke, 1-3/8"-21 SPL AS
2	345850	1	Double Yoke
3		1	Grease Zerk-In Item 2
4	357920	1	Inboard Yoke S4
5	345870	2	Cross & Bearing Kit
6	196740	2	Spring Pin 10 x 90
7	357900	1	Inner Profile S4GA
8	357910	1	Profile & Sleeve WA
9	196770	1	Inboard Yoke S5
10	345910	1	Yoke, 1-3/4" RB, 3/8" KWW
11	182230	1	Cross & Bearing Kit
12	182900	2	Bearing Ring SC25
13	357880	1	Outer Shield Tube, OVL
14	357890	1	Inner Shield Tube, RND
15	345950	1	CV Cone & Bearing Assy
16	345960	1	Shield Cone, 3 Rib
17	340140	1	Shield Cone, 7 Rib
18	345980	8	Screw-In Item 15,16&17
19	340190	1	Support Bearing
20	182890	1	Safety Chain
21	268860	1	Decal Outer-In Item 13
22	340180	1	Decal Inner-In Item 8
23	196890	1	Zerk-In Item 8
24	354190	1	Safety Chain - 600mm
25	349250	1	Reinforced Collar
	340210	1	As Col. Kit-In Item 1
26	357840	1	PTO Assy CV2580 Trac 1/2
27	357850	1	PTO Assy CV2580 IMP HLF
28	356840	1	PTO Assy CV2580 1-3/8" Trac

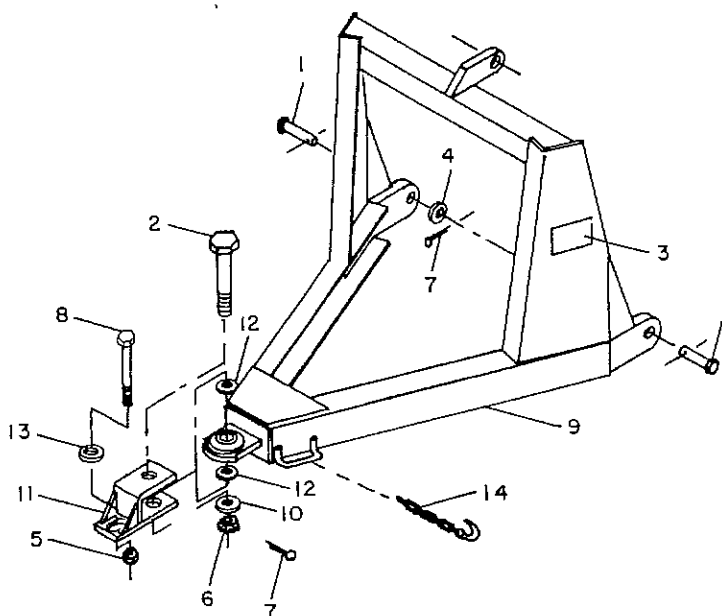
GEARBOX - 244180

1.5 TO 1 600 SERIES



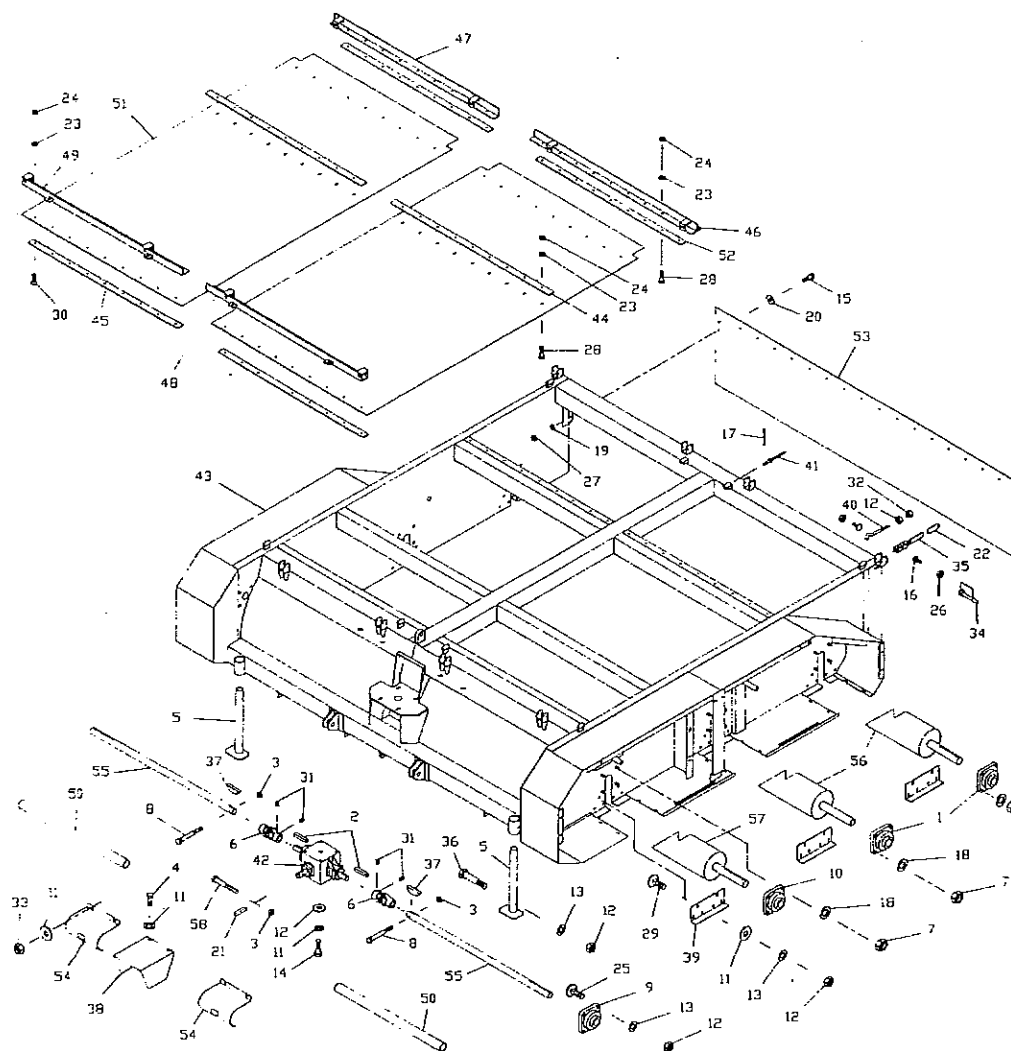
ITEM	PART NUMBER	QTY	DESCRIPTION
1	247660	3	Seal, 1-3/4" Shaft
2	247670	6	Ring, Retaining
3	247680	4	Cone, Bearing
4	247690	4	Cup, Bearing
5	247700	-	Key, Sq. 3/8" x 1.45"
6	247710	2	Shaft, Pinion
7	247720	2	Cup, Bearing
8	247730	2	Cone, Bearing
9	247740	2	Gear 30T
10	247750	1	Plug, 1/2" NPT
11	247760	1	Plug, 1/4" NPT
12	247770	1	Casting, Bottom
13	247780	1	Shaft, Cross
14	247790	1	Gear, 20T
15	247800	1	Casting, Top
16	247810	1	Bushing, 1/8" NPT To 1/2" NPT
17	247820	1	Pressure Relief
18	247830	-	Bolt, SHCS 3/8" x 2-1/4"
19	247840	1	Plug, End

TONGUE ASSEMBLY - 234420



ITEM	PART NUMBER	QTY	DESCRIPTION
1	E580155	-	Pin, Clevis 1-1/8" x 4"
2	E096105	-	Bolt, Special 1-1/8" x 6"
3	115370	1	Decal, Hitch Instructions
4	034260	-	Washer, Flat 1-1/8"
5	E552046	-	Nut, Lock 5/8"
6	E552092	-	Nut, Slotted 1-1/8"
7	E580046	-	Pin, Cotter 1/4" x 2-1/2"
8	056720	-	Bolt, HHCS 5/8" x 4"
9	234430	1	Tongue Wldt
10	E829021	-	Washer, Flat 1-1/8"
11	250220	1	Bracket Wldt, Hitch
12	231970	-	Washer, Hardened 1-1/8"
13	020430	-	Washer, Flat 5/8"
14	1765302	1	Safety Chain

784A BASIC UNIT - 242050

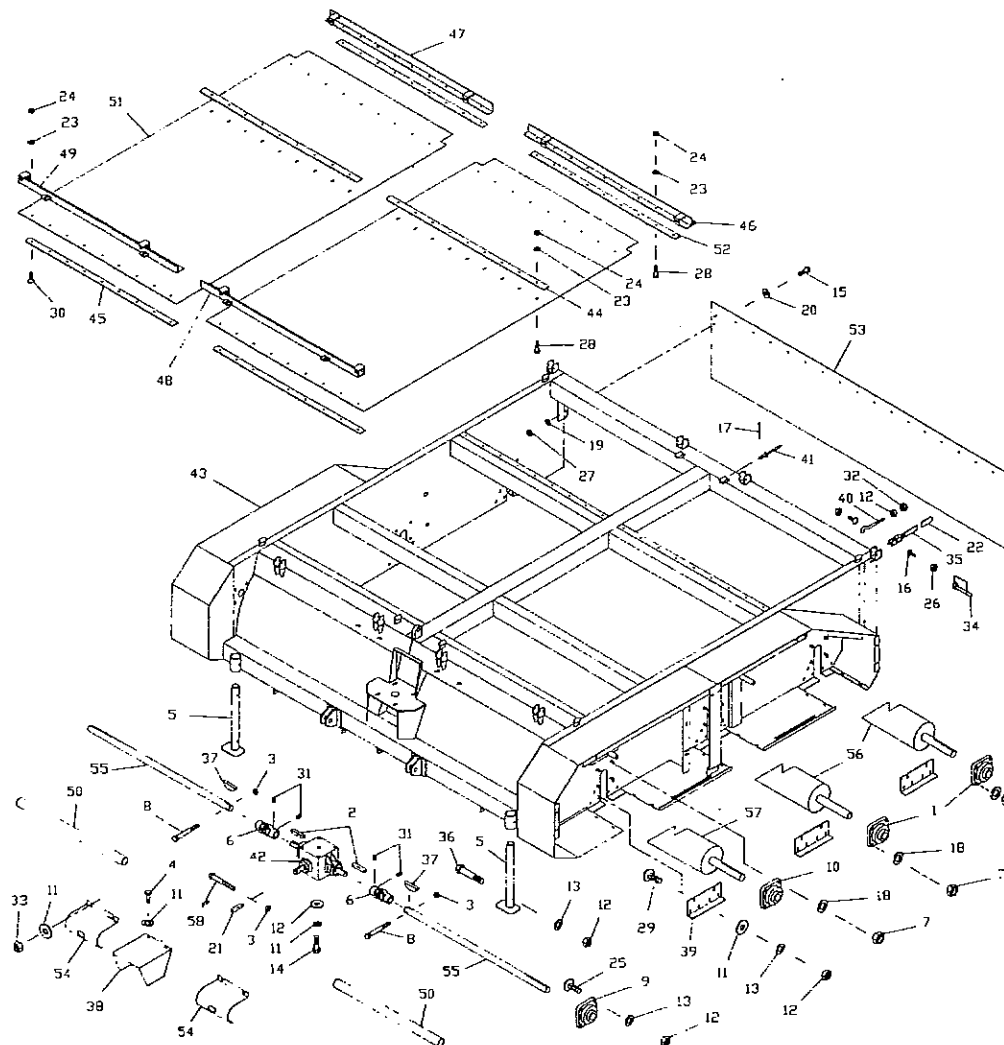


ITEM	PART NUMBER	QTY	DESCRIPTION
1	E072445	4	Bearing, Flange 2" S/N 5000 & Up
1	E072102	4	Bearing, Flanged 1-5/8" S/N 1149 & Below
1	E072375	-	Bearing Only, w/Lock Collar 1-5/8"
2	E388074	-	Key, Sq. 3/8" x 2-1/4"
3	E552044	-	Nut, Hex Lock 3/8"
4	E672030	-	Bolt, HHCS 1/2" x 3/4"
5	E748004	2	Stand, Jack
6	E823023	2	Universal Joint, 35N 1-3/4" x 1-3/4"
7	I124589	-	Nut, Hex 5/8"
8	I189304	-	Bolt, HHCS 3/8" x 3-1/4"
9	R16260	2	Bearing, Flange 1-3/4" w/Lock Collar
9	236490	-	Bearing Only, w/Lock Collar 1-3/4"
10	R66250	2	Bearing, Flange 2-3/16" w/Lock Collar
10	236840	-	Bearing Only, w/Lock Collar 2-3/16"
11	005200	-	Washer, Flat 1/2" x 1-3/8"
12	005360	-	Nut, Hex 1/2"
13	005370	-	Washer, Lock 1/2"
14	010730	-	Bolt, HHCS 1/2" x 1-1/4"
15	012260	-	Bolt, HHCS 3/8" x 1"
16	012410	-	Bolt, CRG 5/16" x 3/4"
17	019070	-	Pin, Cotter 3/16" x 1"
18	020440	-	Washer, Lock 5/8"

784A BASIC UNIT - 242050

ITEM	PART NUMBER	QTY	DESCRIPTION
19	021180	-	Washer, Lock 3/8"
20	021190	-	Washer, Flat 3/8" x 1"
21	021530	-	Key, Sq. 3/8" x 2"
22	021560	8	Grip, Plastic
23	023620	-	Washer, Lock 5/16"
24	023630	-	Nut, Hex 5/16"
25	025390	-	Bolt, CRG 1/2" x 1-3/4"
26	025670	-	Nut, Hex Lock 5/16"
27	027260	-	Nut, Hex 3/8"
28	030030	-	Bolt, HHCS 5/16" x 1-1/4"
29	030470	-	Bolt, CRG 1/2" x 1-1/4"
30	033080	-	Screw, 5/16" x 1"
31	070020	-	Screw, AHSS 3/8" x 1/2"
32	114380	-	Nut, Hex Jam 1/2"
33	127890	-	Nut, Hex Lock 1/2"
34	143710	-	Pin, Snapper 3/8" x 2-1/2"
35	151920	8	Handle, Locking
36	I770608	-	Bolt, HHCS 1/2" x 3-1/2"
37	231950	-	Key, Woodruff 3/8" x 2-3/4"
38	234560	1	Shield, Gearbox
39	234580	6	Angle, Side Support S/N 5000 & Up
39	231430	4	Angle, Side Support #2 S/N 1149 & Below
40	239790	8	Hook, Tightening
41	239800	8	Pin Assy, Guide
42	244180	1	Gearbox (see page 4)
43	278340	1	Mainframe Wldt S/N 5620 & Up
43	242040	1	Mainframe Wldt S/N 5619 & Below
44	340010	2	Strap, Cover Center
45	279620	2	Strap, Cover Front
46	279990	1	Angle Wldt Rear Cover LH S/N 5620 & Up
46	241860	1	Angle, Cover Tightening RH S/N 5619 & Below
47	279970	1	Angle Wldt, Rear Cover RH S/N 5620 & Up
47	241860	1	Angle, Cover Tightening RH S/N 5619 & Below
48	279870	1	Angle Wldt, Front Cover LH S/N 5620 & Up
48	241820	1	Angle, Cover LH S/N 5619 & Below
49	279850	1	Angle Wldt Front Cover RH S/N 5620 & Up
49	241830	1	Angle, Cover RH S/N 5619 & Below
50	241800	2	Shield, Jackshaft 784A
51	279650	2	Cover, Top 784A S/N 5620 & Up
51	241840	1	Cover, Left S/N 5619 & Below
51	241850	1	Cover, Right S/N 5619 & Below
52	279610	2	Strap, Cover Rear S/N 5620 & Up
52	241870	2	Strap, Cover Reinforcement S/N 5619 & Below
53	279660	1	Cover, Rear Drop 784A S/N 5620 & Up
53	241880	1	Cover, Rear Drop S/N 5619 & Below
54	255180	2	Shield, U-Joint S/N 5620 & Up
54	234570	2	Shield, Shaft Coupler S/N 5619 & Below
55	241810	2	Shaft, Jack 784A
56	251190	2	Rotor Tube Wldt #2 S/N 5000 & Up
56	251110	-	Plug Shaft, Short Idler 2"
56	251180	-	Plug Shaft, Long Drive 2"
56	E656065	2	Rotor Tube Wldt#2 S/N 1149 & Below
56	E850490	-	Plug Shaft, Short Idler 1-5/8"
56	E850489	-	Plug Shaft, Long Drive 1-5/8"
57	241790	1	Rotor Wldt, 784A S/N 5619 & Below
57	224970	2	Plug, Shaft S/N 5619 & Below
58	990870	-	Bolt, HHCS 3/8" x 3-1/2"

786A BASIC UNIT - 234640



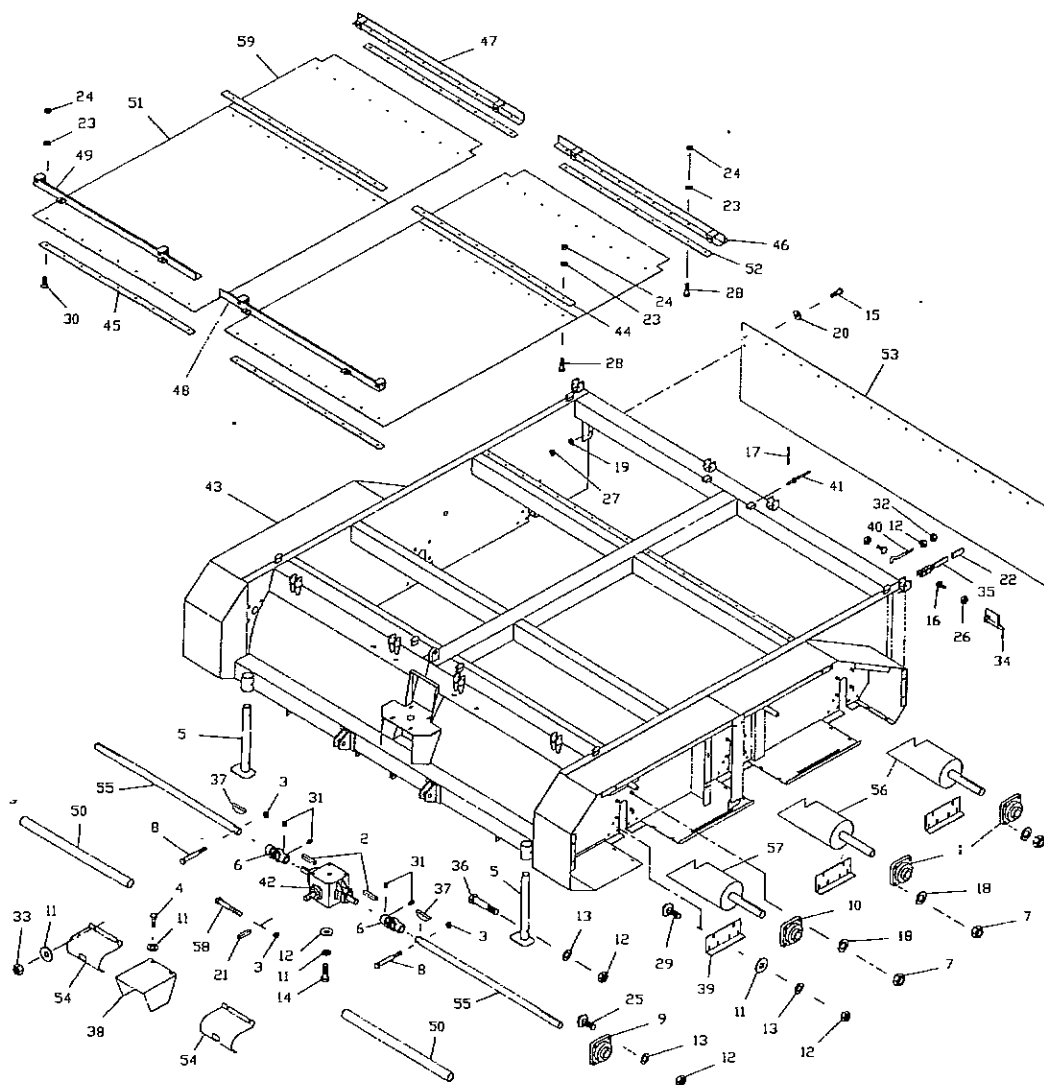
ITEM	PART NUMBER	QTY	DESCRIPTION
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1	E072445	4	Bearing, Flange 2" S/N 5000 & Up
1	E072102	4	Bearing, Flange 1-5/8" S/N 1149 & Below
1	E072375	-	Bearing Only w/Lock Collar 1-5/8"
2	E388074	-	Key, Sq. 3/8" x 2-1/4"
3	E552044	-	Nut, Hex Lock 3/8"
4	E672030	-	Bolt, HHCS 1/2" x 3/4"
5	E748004	2	Stand, Jack
6	E823023	2	Universal Joint, 35N 1-3/4" x 1-3/4"
7	II24589	-	Nut, Hex 5/8"
8	II89304	-	Bolt, HHCS 3/8" x 3-1/4"
9	R16260	2	Bearing, Flange 1-3/4" w/Lock Collar
9	236490	-	Bearing Only, w/Lock Collar 1-3/4"
10	R66250	2	Bearing, Flange 2-3/16" w/Lock Collar
10	236840	-	Bearing Only, w/Lock Collar 2-3/16"
11	005200	-	Washer, Flat 1/2" x 1-3/8"
12	005360	-	Nut, Hex 1/2"
13	005370	-	Washer, Lock 1/2"
14	010730	-	Bolt, HHCS 1/2" x 1-1/4"
15	012260	-	Bolt, HHCS 3/8" x 1"
16	012410	-	Bolt, CRG 5/16" x 3/4"
17	019070	-	Pin, Cotter 3/16" x 1"
18	020440	-	Washer, Lock 5/8"
19	021180	-	Washer, Lock 3/8"
20	021190	-	Washer, Flat 3/8" x 1"

786A BASIC UNIT - 234640

ITEM	PART NUMBER	QTY	DESCRIPTION
21	021530	-	Key, Sq. 3/8" x 2"
22	021560	8	Grip, Plastic
23	023620	-	Washer, Lock 5/16"
24	023630	-	Nut, Hex 5/16"
25	025390	-	Bolt, CRG 1/2" x 1-3/4"
26	025670	-	Nut, Hex Lock 5/16"
27	027260	-	Nut, Hex 3/8"
28	030030	-	Bolt, HHCS 5/16" x 1-1/4"
29	030470	-	Bolt, CRG 1/2" x 1-1/4"
30	033080	-	Screw, 5/16" x 1"
31	070020	-	Screw, AHSS 3/8" x 1/2"
32	114380	-	Nut, Hex Jam 1/2"
33	127890	-	Nut, Hex Lock 1/2"
34	143710	-	Pin, Snapper 3/8" x 2-1/2"
35	151920	8	Handle, Locking
36	1770608	-	Bolt, HHCS 1/2" x 3-1/2"
37	231950	-	Key, Woodruff 3/8" x 2-3/4"
38	234560	1	Shield, Gearbox
39	234580	6	Angle, Side Support #1 Rotor
39	231430	4	Angle, Side Support #2 S/N 1149 & Below
39	234580	4	Angle, Side Support #2 S/N 1150 -1199
40	239790	8	Hook, Tightening
41	239800	8	Pin Assy, Guide
42	244180	1	Gearbox (see page 4)
43	278350	1	Mainframe Wldt, 786A S/N 1200 & Up
43	233640	1	Mainframe Wldt, S/N 1199 & Below
44	340000	2	Strap, Cover Center
45	279640	2	Strap, Cover Front S/N 1200 & Up
45	234590	1	Angle, Cover LH S/N 1199 & Below
45	234600	1	Angle, Cover RH S/N 1199 & Below
46	279950	1	Angle Wldt, Rear Cover LH S/N 1200 & Up
46	239720	1	Angle, Cover Tightening RH S/N 1199 & Below
47	279930	1	Angle Wldt, Rear Cover RH S/N 1200 & Up
47	239720	1	Angle, Cover Tightening RH S/N 1199 & Below
48	279830	1	Angle Wldt, Front Cover LH
49	279810	1	Angle Wldt, Front Cover RH
50	237460	2	Shield, Jackshaft 786A
51	279670	2	Cover, Top 786A S/N 1200 & Up
51	239770	1	Cover, Left S/N 1199 & Below
51	239780	1	Cover, Right S/N 1199 & Below
52	279630	2	Strap, Cover Rear S/N 1200 & Up
52	239750	2	Strap, Cover Reinforcement S/N 1199 & Below
53	279680	1	Cover, Rear Drop 786A S/N 1200 & Up
53	234710	1	Cover, Rear Drop S/N 1199 & Below
54	255180	2	Shield, U-Joint S/N 1200 & Up
54	234570	2	Shield, Shaft Coupler S/N 1199 & Below
55	237650	2	Shaft, Jack
56	251200	2	Rotor Wldt, Shaft #2 S/N 1150 & Up
56	251110	-	Plug Shaft, Short Idler 2"
56	251180	-	Plug Shaft, Long Drive 2"
56	E656062	1	Rotor Wldt, Shaft #2 S/N 1149 & Below
56	E850490	-	Plug Shaft, Short Idler 1-5/8"
56	E850489	-	Plug Shaft, Short Drive 1-5/8"
57	224940	1	Rotor Tube Wldt #1
57	224970	2	Plug, Shaft End S/N 1199 & Below
58	990870	-	Bolt, HHCS 3/8" x 3-1/2"

630 BASIC UNIT - 255390

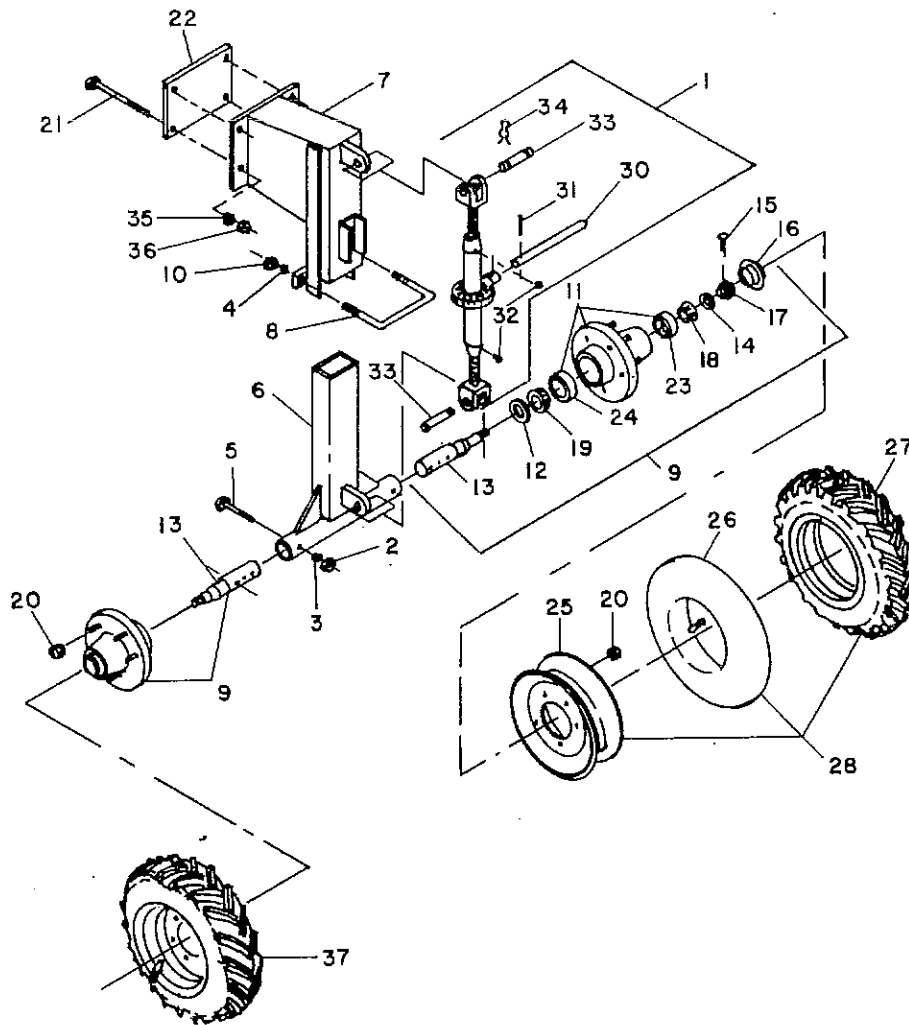


ITEM	PART NUMBER	QTY	DESCRIPTION
1	E072445	4	Bearing, Flange 2"
2	E388074	-	Key, Sq. 3/8" x 2-1/4"
3	E552044	-	Nut, Hex Lock 3/8"
4	E672030	-	Bolt, HHCS 1/2" x 3/4"
5	E748004	2	Stand, Jack
6	E823023	2	Universal Joint, 35N 1-3/4" x 1-3/4"

630 BASIC UNIT - 255390

ITEM	PART NUMBER	QTY	DESCRIPTION
7	I124589	-	Nut, Hex 5/8"
8	I189304	-	Bolt, HHCS 3/8" x 3-1/4"
9	R16260	2	Bearing, Flange 1-3/4" w/Lock Collar
10	R66250	2	Bearing, Flange 2-3/16" w/Lock Collar
11	005200	-	Washer, Flat 1/2" x 1-3/8"
12	005360	-	Nut, Hex 1/2"
13	005370	-	Washer, Lock 1/2"
14	010730	-	Bolt, HHCS 1/2" x 1-1/4"
15	012260	-	Bolt, HHCS 3/8" x 1"
16	012410	-	Bolt, CRG 5/16" x 3/4"
17	019070	-	Pin, Cotter 3/16" x 1"
18	020440	-	Washer, Lock 5/8"
19	021180	-	Washer, Lock 3/8"
20	021190	-	Washer, Flat 3/8" x 1"
21	021530	-	Key, Sq. 3/8" x 2"
22	021560	8	Grip, Plastic
23	023620	-	Washer, Lock 5/16"
24	023630	-	Nut, Hex 5/16"
25	025390	-	Bolt, CRG 1/2" x 1-3/4"
26	025670	-	Nut, Hex Lock 5/16"
27	027260	-	Nut, Hex 3/8"
28	030030	-	Bolt, HHCS 5/16" x 1-1/4"
29	030470	-	Bolt, CRG 1/2" x 1-1/4"
30	033080	-	Screw, 5/16" x 1"
31	070020	-	Screw, AHSS 3/8" x 1/2"
32	114380	-	Nut, Hex Jam 1/2"
33	127890	-	Nut, Hex Lock 1/2"
34	143710	-	Pin, Snapper 3/8" x 2-1/2"
35	151920	8	Handle, Locking
36	I770608	-	Bolt, HHCS 1/2" x 3-1/2"
37	231950	-	Key, Woodruff 3/8" x 2-3/4"
38	234560	1	Shield, Gearbox
39	234580	6	Angle, Side Support #1 Rotor
40	239790	8	Hook, Tightening
41	239800	8	Pin Assy, Guide
42	244180	1	Gearbox (see page 4)
43	254490	1	Mainframe Wldt, 630
44	254940	2	Strap, Cover Center
45	254980	2	Strap, Cover Front
46	279910	1	Angle Wldt, Rear Cover LH S/N 6015 & Up
46	255050	1	Angle Wldt, LH S/N 6014 & Below
47	279890	1	Angle Wldt, Rear Cover RH S/N 6015 & Up
47	255060	1	Angle Wldt, RH S/N 6014 & Below
48	255110	1	Angle Wldt, Front Cover RH
49	255100	1	Angle Wldt, Front Cover LH
50	255140	2	Shield, Jackshaft 630
51	255150	2	Cover, Front 630
52	276490	2	Strap, Cover Rear
53	279690	1	Cover, Rear Drop 630 S/N 6015 & Up
53	255170	1	Cover, Rear Drop 630 S/N 6014 & Below
54	255180	2	Shield, U-Joint
55	255250	2	Shaft, Jack
56	255270	2	Rotor Wldt, Shaft 630
57	255280	1	Rotor Wldt, 630
58	990870	-	Bolt, HHCS 3/8" x 3-1/2"
59	255160	-	Cover, Rear

DUAL FIXED WHEELS - 234150



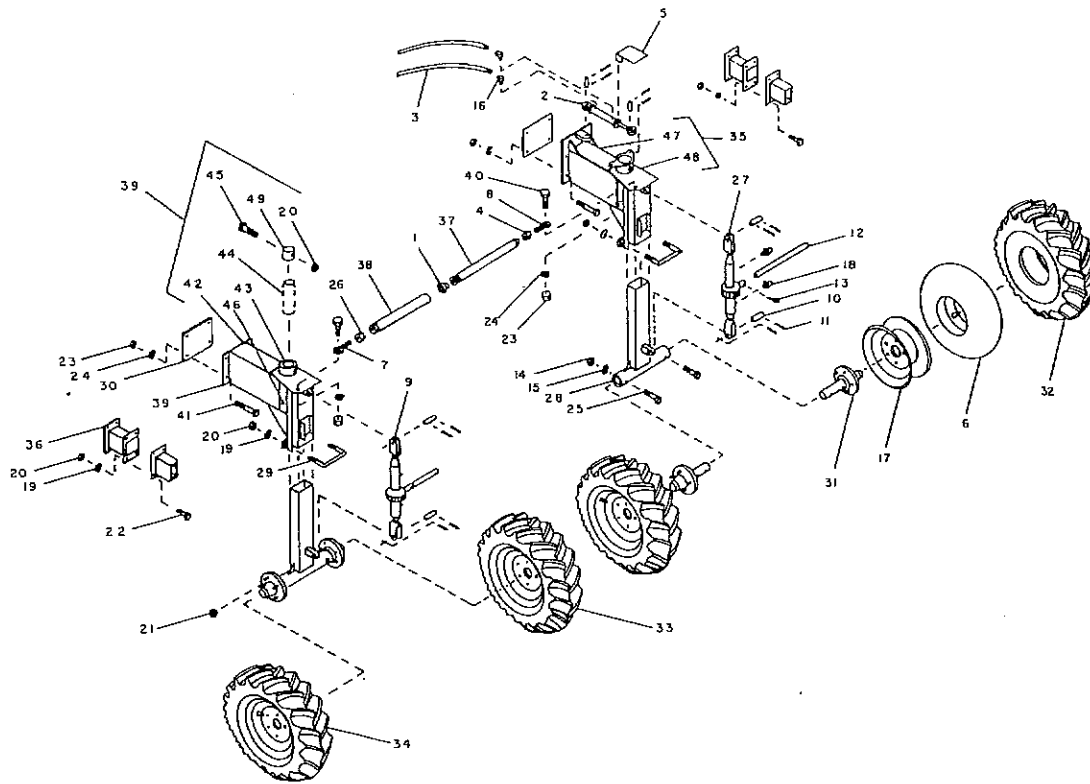
DUAL FIXED WHEELS - 234150

ITEM	PART NUMBER	QTY	DESCRIPTION
1	250990	1	Jack, Ratchet
2	005360	-	Nut, Hex 1/2"
3	005370	-	Washer, Lock 1/2"
4	020440	-	Washer, Lock 5/8"
5	038560	-	Bolt, HHCS 1/2" x 4"
6	234170	2	Tube Wldt, Axle
7	234180	2	Strut Wldt, Top Half Wheel
8	234190	2	U-Bolt, 5/8" x 5" x 6-3/8"
9	234320	4	Spindle & Hub Assy
10	I124589	-	Nut, Hex 5/8"
11	E360040	4	Hub, 5-Bolt w/Cup & Lug Bolts
12	E674023	4	Seal, 1.50
13	E728040	4	Spindle
14	E829019	-	Washer, Flat 7/8"
15	003950	-	Pin, Cotter 3/16" x 2"
16	035420	4	Cap, Hub
17	129830	-	Nut, Hex Slotted 7/8"
18	012630	4	Cone, Bearing Outer
19	044370	4	Cone, Bearing Inner
20	020730	-	Nut, Wheel 1/2"
21	990980	-	Bolt, HHCS 3/4" x 7-1/2"
22	234230	2	Plate, Strut Mounting
23	018860	4	Cup, Bearing Outer
24	018850	4	Cup, Bearing Inner
25	356210	4	15" x 6" 5-Bolt Wheel, AW Gold
26	E816017	4	Tube, M15
27	241410	4	Tire, 7.60-15 Ground Drive
28	356190	2	Wheel & Tire Assy, RH
29	196470	1	Body, Ratchet Jack
30	250970	1	Handle, Jack
31	R41840	1	Pin, Handle
32	013170	1	Zerk, Grease 1/8"
33	R41810	2	Pin, Yoke
34	R41820	4	Hairpin, Cotter
35	036800	-	Washer, Lock 3/4"
36	J14H794	-	Nut, Hex 3/4"
37	356200	2	Wheel & Tire Assy, LH

234160 Strut Assembly Less Wheels & Tires and
Mounting Parts (Not Serviced)

DUAL STEERABLE WHEELS

340020 - 784A, 247320 - 786A, 255500 - 630

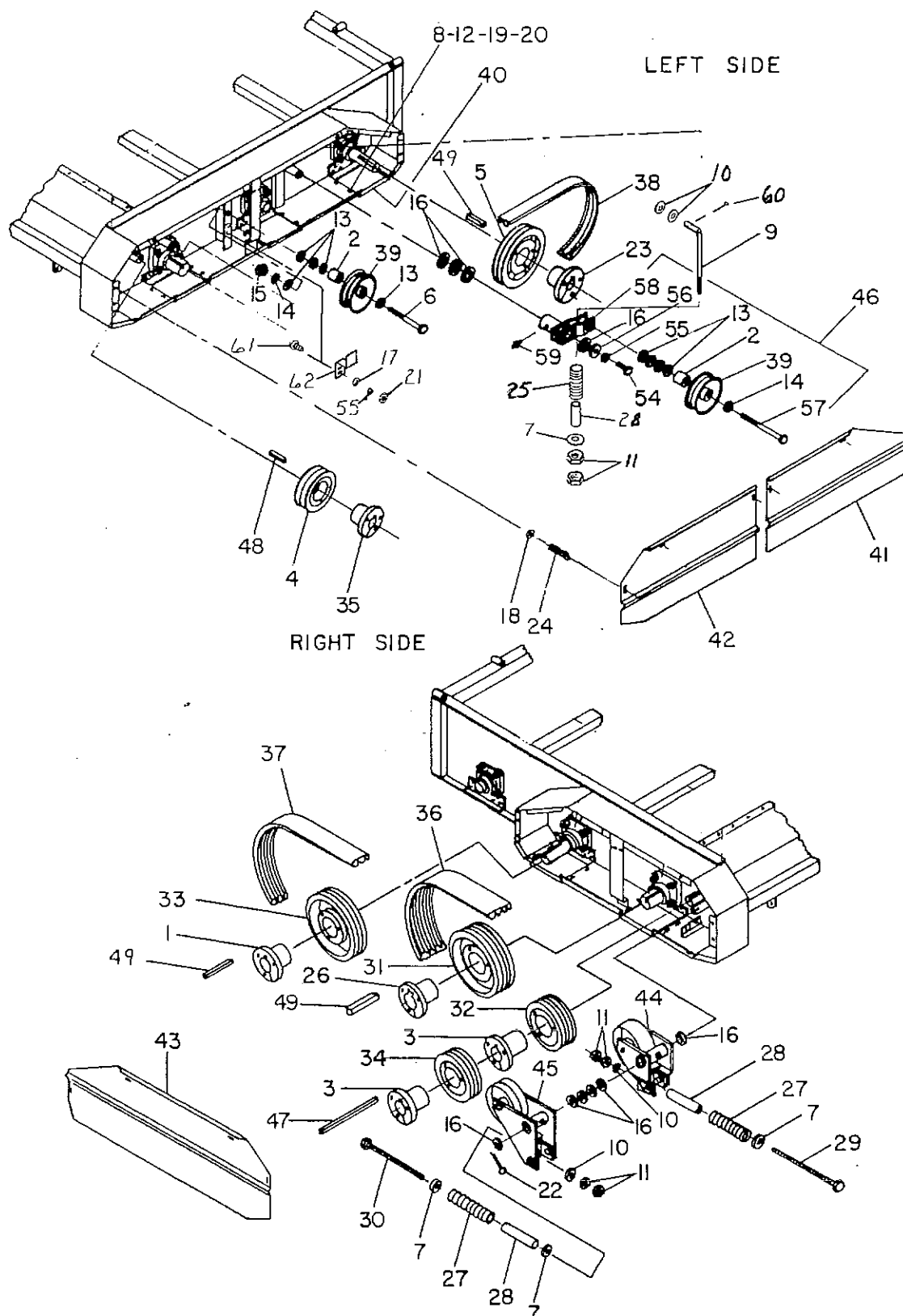


DUAL STEERABLE WHEELS

340020 - 784A, 247320 - 786A, 255500 - 630

ITEM	PART NUMBER	QTY	DESCRIPTION
1	E126108	1	Bushing, 1.51IDP1
2	E222002	1	Cylinder, Hydraulic
3	E356113	2	Hose, Hydraulic 1/2" x 300"
4	E552087	-	Nut, Hex 1NC LH THD
5	E694360	1	Shield, Cylinder
6	E816017	1	Tube, Tire
7	E822006	1	Turnbuckle End, 1" RH x 8"
8	E822007	1	Turnbuckle End, 1" LH x 8"
9	250990	2	Jack, Ratchet
10	R41810	-	Pin, Yoke
11	R41820	-	Hairpin, Cotter
12	250970	1	Handle
13	R41840	-	Pin, Handle
14	005360	-	Nut, Hex 1/2"
15	005370	-	Washer, Lock 1/2"
16	006240	2	Elbow, Street 1/2" x 90 Deg.
17	356210	1	Wheel, 5-Bolt 15" x 6" AW Gold
18	013170	2	Zerk, Short Grease 1/8" NPT
19	020440	-	Washer, Lock 5/8"
20	I124589	-	Nut, Hex 5/8"
21	020730	-	Nut, Hex Wheel 1/2"
22	023110	-	Bolt, HHCS 5/8" x 2-1/2"
23	J14H805	-	Nut, Hex 1"
24	003350	-	Washer, Lock 1"
25	038560	-	Bolt, HHCS 1/2" x 4"
26	147310	-	Nut, Hex 1NC
27	196470	-	Body, Ratchet Jack
28	234170	2	Tube Weld, Axle
29	234190	2	U-Bolt, 5/8" x 5" x 6.38"
30	261280	4	Plate, Strut Mounting
31	234320	4	Spindle & Hub Assy, 5-Bolt (see page 13)
32	241410	4	Tire, 7.60-15 Ground Drive
33	356190	2	Tire & Wheel Assy, 7.60-15 Ground Drive Right
36	247390	2	Scalper Extension Wldt
37	279790	1	Tie Rod Wldt, RH 784A
37	247430	1	Tie Rod Wldt, RH 786A
37	255230	1	Tie Rod Wldt, RH 630
38	247440	1	Tie Rod Wldt, LH
39	260890	1	Strut Assy, Left Steerable Top
40	990570	-	Bolt, HHCS 3/4" x 3"
41	R60962	-	Bolt, HHCS 1" x 7-1/2"
42	260830	1	Strut Weld, Horiz Ext LH
43	260750	1	Strut Weld, Vert LH
44	260910	2	Shaft, Pivot
45	028330	-	Bolt, HHCS 5/8" x 4-1/2"
46	E334006	-	Fitting, Lube 5/16" Press
47	260820	1	Strut Weld, Horiz Ext RH
48	260760	1	Strut Weld, Vert RH
49	260870	4	Bushing, Pivot

DRIVE IDLERS & SHIELDS (RUBBER FRONT) - 253000

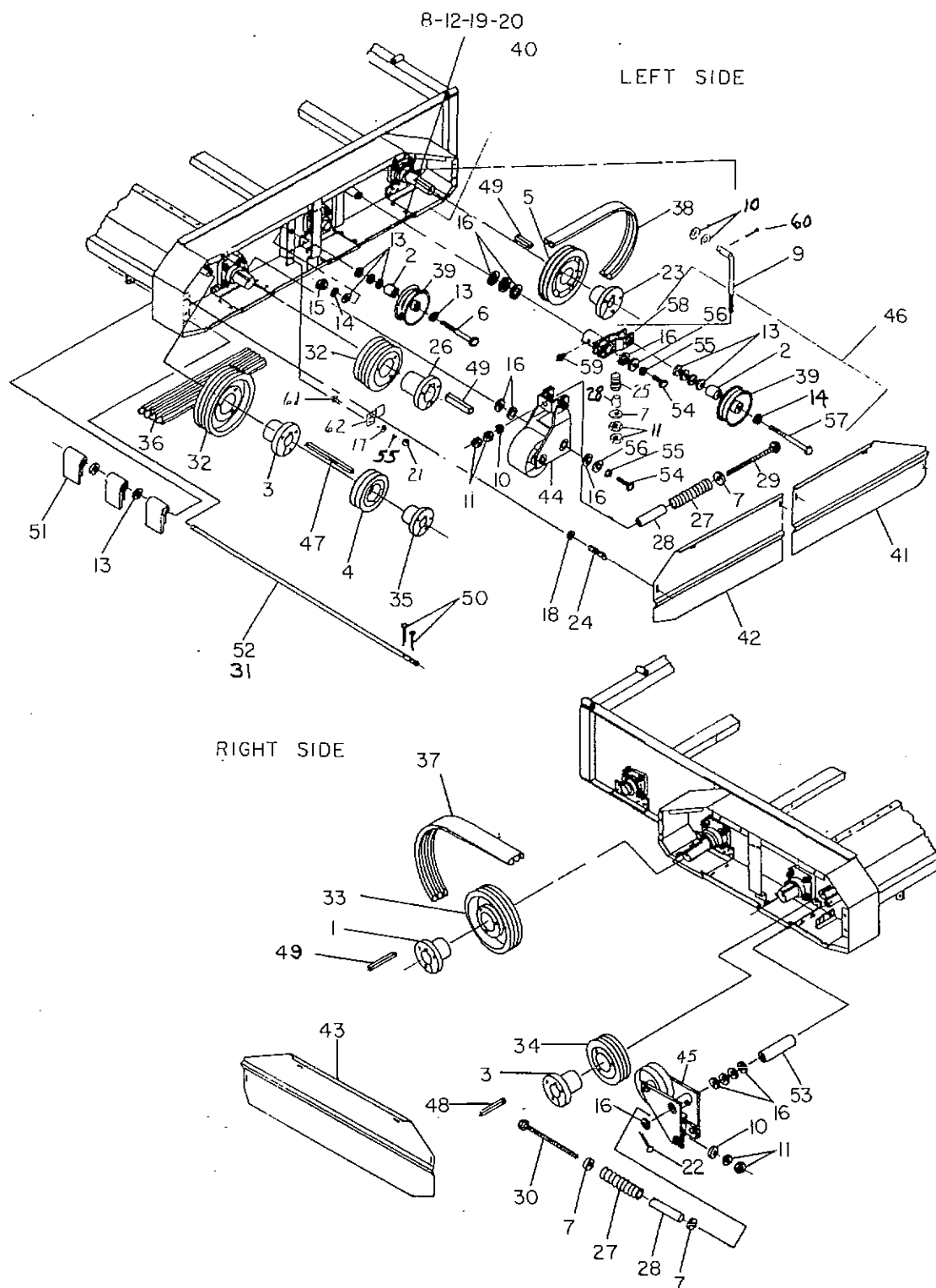


ITEM	PART NUMBER	QTY	DESCRIPTION
1	E126075	1	Bushing, 1-5/8" 'E' S/N 1149 & Below
1	251230	1	Bushing, 2" 'E' 786A-S/N 1150 & Up, 784A-S/N 5000 & Up
2	E126195	2	Bushing, 5/8" ID x 1-1/4" OD x 1-1/8" L

DRIVE IDLERS & SHIELDS (RUBBER FRONT) - 253000

ITEM	PART NUMBER	QTY	DESCRIPTION
3	E126196	2	Bushing, 1-3/4" 'E'
4	E706014	1	Sheave, 7.9" OD, 2C
5	E706112	1	Sheave, 12.4" OD, 2C
6	I271729	-	Bolt, HHCS 5/8" x 3-1/2"
7	I486801R1	-	Washer, Flat 1/2" x 2" x 1/4"
8	R61494	-	Washer, Flat 5/16"
9	279520	1	Rod, Spring Take-Up
10	005200	-	Washer, Flat 1/2"
11	005360	-	Nut, Hex 1/2"
12	012410	-	Bolt, CRG 5/16" x 3/4"
13	020430	-	Washer, Flat 5/8"
14	020440	-	Washer, Lock 5/8"
15	I124589	-	Nut, Hex 5/8"
16	020880	-	Washer, Flat 1-1/4" x 1-3/4" x .134"
17	021190	-	Washer, Flat 3/8"
18	022920	-	Washer, Flat SAE 5/16"
19	023620	-	Washer, Lock 5/16"
20	023630	-	Nut, Hex 5/16"
21	027260	-	Nut, Hex 3/8"
22	114370	-	Pin, Cotter 1/4" x 2"
23	120950	1	Bushing, 1-5/8" 'SF' S/N 1149 & Below
23	251220	1	Bushing, 2" 'SF' 786A-S/N 1150 & Up 784A-S/N 5000 & Up
24	156510	10	Latch, Shield
25	279540	1	Spring, Compression 1.50" x 7.50"
26	225700	1	Bushing, 2-3/16" 'E'
27	231000	2	Spring, Compression 1.62" x 7.25"
28	231050	2	Spacer, Spring Length
29	231060	1	Rod Wldt, 19" Take-Up
30	231070	1	Rod Wldt, 15" Take-Up
31	234720	1	Sheave, 13.4" OD, 4C
32	234730	1	Sheave, 8.9" OD, 4C
33	234740	1	Sheave, 13.4" OD, 3C
34	234750	1	Sheave, 8.9" OD, 3C
35	234760	1	Bushing, 'SF' 1-3/4"
36	234770	1	Belt, 4HC-83.9
37	234780	1	Belt, 3HC-157
38	234790	1	Belt, 2HC-230.25
39	234800	2	Idler, Flanged 8" OD x 2"W
40	234810	5	Cover, Rotor Slot
41	234820	1	Face, Left Rear Shield
42	234830	1	Face, Left Front Shield
43	234840	1	Face, Shield RH
44	234850	1	Idler Assy, #1 Rotor (see page 20)
45	234860	1	Idler Assy, #2 Rotor (see page 21)
46	234870	1	Idler Assy, #3 Rotor
47	013690	1	Key, Sq. 3/8" x 6-1/2"
48	030380	1	Key, Sq. 3/8" x 3"
49	E388049	3	Key, Sq. 1/2" x 3"
54	012260	-	Bolt, HHCS 3/8" x 1"
55	021180	-	Washer, Lock 3/8"
56	012270	-	Washer, Flat 3/8"
57	I271729	-	Bolt, HHCS 5/8" x 3-1/2"
58	234990	1	Arm Assy, #3 Rotor Idler
59	115590	1	Zerk, Grease 1/4"
60	019070	-	Pin, Cotter 3/16" x 1"
61	035180	-	Bolt, CRG 3/8" x 1-1/4"
62	279530	1	Bracket, Belt Retainer

DRIVE IDLERS & SHIELDS (STEEL FRONT) - 234630

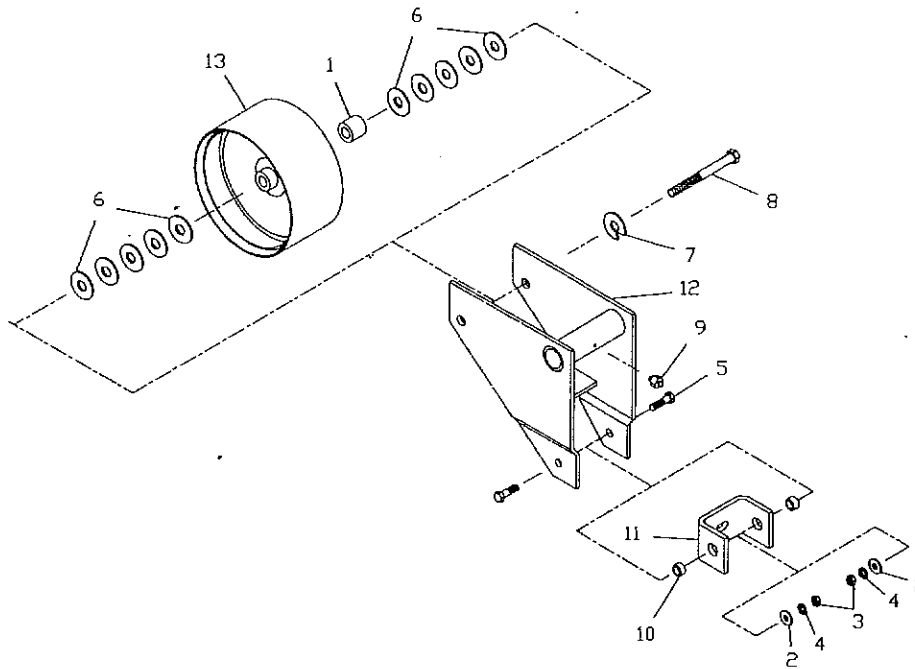


ITEM	PART NUMBER	QTY 784A	QTY 786A	QTY 630	DESCRIPTION
1	E126075	1	1	-	Bushing, 1-5/8" 'E' S/N 1149 & Below
1	251230	1	1	1	Bushing, 2" 'E' 786A-S/N1150 & Up 784A-S/N 5000 & Up
2	E126195	2	2	2	Bushing, 5/8" x 1-1/4" x 1-1/8"
3	E126196	2	2	2	Bushing, 1-3/4" 'E'
4	E706014	1	1	1	Sheave, 7.9" OD, 2C
5	E706112	1	1	1	Sheave, 12.4" OD, 2C

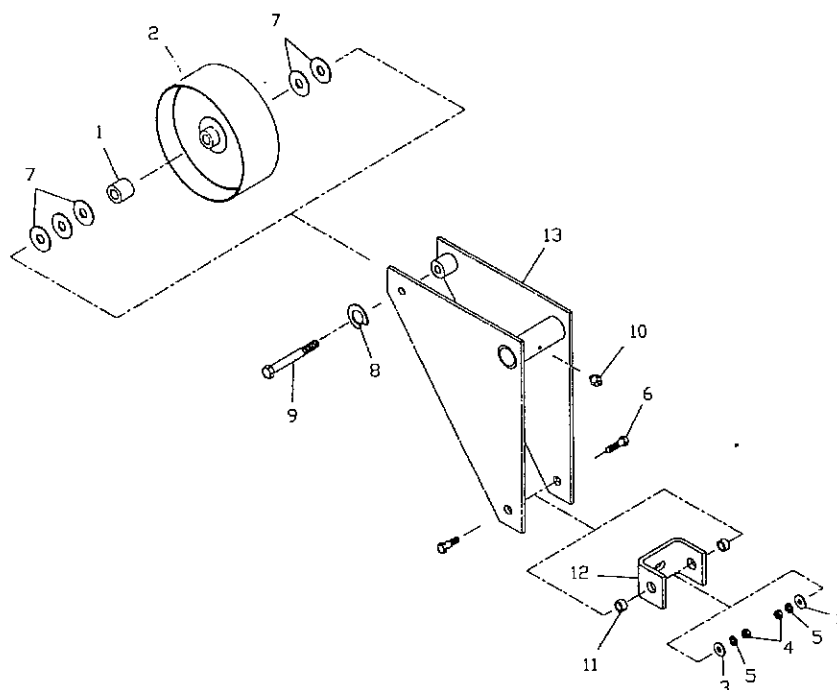
DRIVE IDLERS & SHIELDS (STEEL FRONT) - 234630

ITEM	PART NUMBER	QTY 784A	QTY 786A	QTY 630	DESCRIPTION
6	I271729	-	-	-	Bolt, HHCS 5/8" x 3-1/2"
7	I486801R1	-	-	-	Washer, Flat 1/2" x 2" x 1/4"
8	R61494	-	-	-	Washer, Flat 5/16"
9	271520	1	1	1	Rod, Spring Take-Up
10	005200	-	-	-	Washer, Flat 1/2"
11	005360	-	-	-	Nut, Hex 1/2"
12	012410	-	-	-	Bolt, CRG 5/16" x 3/4"
13	020430	-	-	-	Washer, Flat 5/8"
14	020440	-	-	-	Washer, Lock 5/8"
15	I124589	-	-	-	Nut, Hex 5/8"
16	020880	-	-	-	Washer, Flat 1-1/4" x 1-3/4" x .134"
17	021190	-	-	-	Washer, Flat 3/8"
18	022920	-	-	-	Washer, Flat 5/16"
19	023620	-	-	-	Washer, Lock 5/16"
20	023630	-	-	-	Nut, Hex 5/16"
21	027260	-	-	-	Nut, Hex 3/8"
22	114370	-	-	-	Pin, Cotter 1/4" x 2"
23	120950	1	1	-	Bushing, 1-5/8" 'SF' S/N 1149 & Below
23	251220	1	1	1	Bushing, 2" 'SF' 786A-S/N 1150 & Up 784A-S/N 5000 & Up
24	156510	10	10	10	Latch, Shield
25	279540	1	1	1	Spring, Compression 1.50" x 7.50"
26	225700	1	1	11	Bushing, 2-3/16" 'E'
27	231000	2	2	2	Spring, Compression 1.62" x 7.25"
28	231050	2	2	2	Spacer, Spring Length
29	231060	1	1	1	Rod Wldt, 19" Take-Up
30	231070	1	1	1	Rod Wldt, 15" Take-Up
32	238030	2	2	2	Sheave, 11.4" OD, 4C
33	234740	1	1	1	Sheave, 13.4" OD, 3C
34	234750	1	1	1	Sheave, 8.9" OD, 3C
35	234760	1	1	1	Bushing, 1-3/4" 'SF'
36	234770	1	1	1	Belt, 4HC-83.9
37	234780	1	1	1	Belt, 3HC-157
38	234790	1	1	1	Belt, 2HC-230.25
39	234800	2	2	2	Idler, Flanged 8" OD x 2"W
40	234810	5	5	5	Cover, Rotor Slot
41	234820	1	1	1	Face, Left Rear Shield
42	234830	1	1	1	Face, Left Front Shield
43	234840	1	1	1	Face, Shield RH
44	234850	1	1	1	Idler Assy, #1 Rotor (see page 20)
45	234860	1	1	1	Idler Assy, #2 Rotor (see page 21)
46	234870	1	1	1	Idler Assy, #3 Rotor
47	013690	1	1	1	Key, Sq. 3/8" x 6-1/2"
48	030380	1	1	1	Key, Sq. 3/8" x 3"
49	E388049	3	3	3	Key, Sq. 1/2" x 3"
50	124350	4	4	4	Pin, Cotter 1/8" x 1-1/2"
51	183330	18	23	28	Deflector, Rubber Curtain
52	235060	-	2	-	Rod, 6 Row Skirt 786A
52	241960	2	-	-	Rod, 4 Row Skirt 784A
52	255260	-	-	2	Rod, 6 Row Skirt 630
53	235070	-	-	-	Spacer, #1 Idler
54	012260	-	-	-	Bolt, HHCS 3/8" x 1"
55	021180	-	-	-	Washer, Lock 3/8"
56	012270	-	-	-	Washer, Flat 3/8"
57	I271729	-	-	-	Bolt, HHCS 5/8" x 3-1/2"
58	234990	1	1	1	Arm Assy, #3 Rotor Idler
59	115590	1	1	1	Zerk, Grease 1/4"
60	019070	-	-	-	Pin, Cotter 3/16" x 1"
61	035180	-	-	-	Bolt, CRG 3/8" x 1-1/4"
62	279530	1	1	1	Bracket, Belt Retainer

IDLER ASSEMBLY #1 ROTOR - 234850



ITEM	PART NUMBER	QTY	DESCRIPTION
1	E126195	1	Bushing, 5/8" x 1-1/4" x 1-1/8"
2	005200	-	Washer, Flat 1/2"
3	005360	-	Nut, Hex 1/2"
4	005370	-	Washer, Lock 1/2"
5	010730	-	Bolt, HHCS 1/2" x 1-1/4"
6	020430	-	Washer, Flat 5/8"
7	020440	-	Washer, Lock 5/8"
8	031490	-	Bolt, HHCS 5/8" x 5"
9	115590	1	Zerk, Grease 1/4"
10	231030	-	Spacer, 3/4" x 3/8"
11	231040	1	Bracket, Spring Pivot
12	234880	1	Bracket Wldt, #1 Rotor Idler
13	234950	1	Idler, Flat 8-1/4" OD x 4-1/4" W

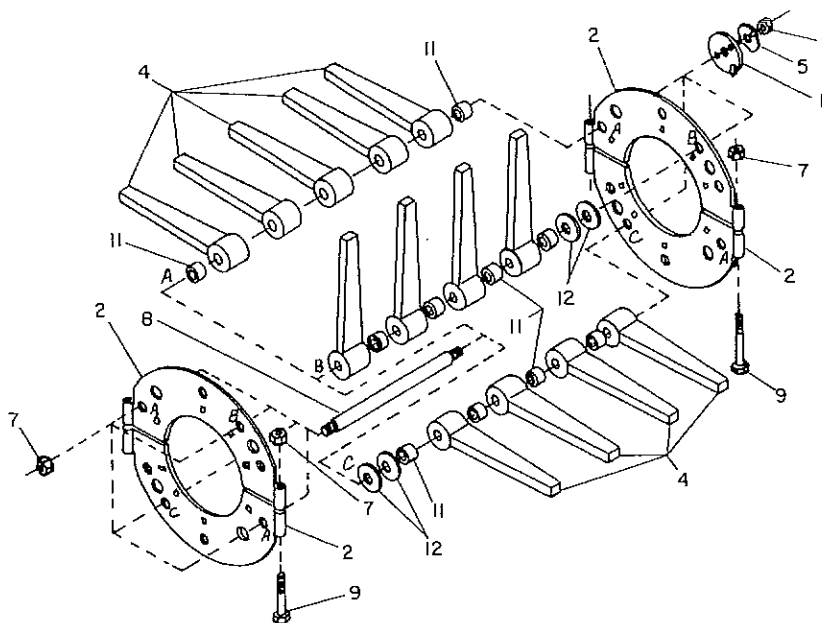


ITEM	PART NUMBER	QTY	DESCRIPTION
1	E126195	1	Bushing, 5/8" x 1-1/4" x 1-1/8"
2	E706098	1	Idler, Flat 8" OD x 3-1/4" W
3	005200	-	Washer, Flat 1/2"
4	005360	-	Nut, Hex 1/2"
5	005370	-	Washer, Lock 1/2"
6	010730	-	Bolt, HHCS 1/2" x 1-1/4"
7	020430	-	Washer, Flat 5/8"
8	020440	-	Washer, Lock 5/8"
9	056720	-	Bolt, HHCS 5/8" x 4"
10	115590	1	Zerk, Grease 1/4"
11	231030	-	Spacer, 3/4" x 3/8"
12	231040	1	Bracket, Spring Pivot
13	234970	1	Arm Wldt, #2 Rotor Idler

RUBBER FLAIL CLUSTER ASSEMBLY

#1 & 2 ROTORS

E104514 ASSEMBLY

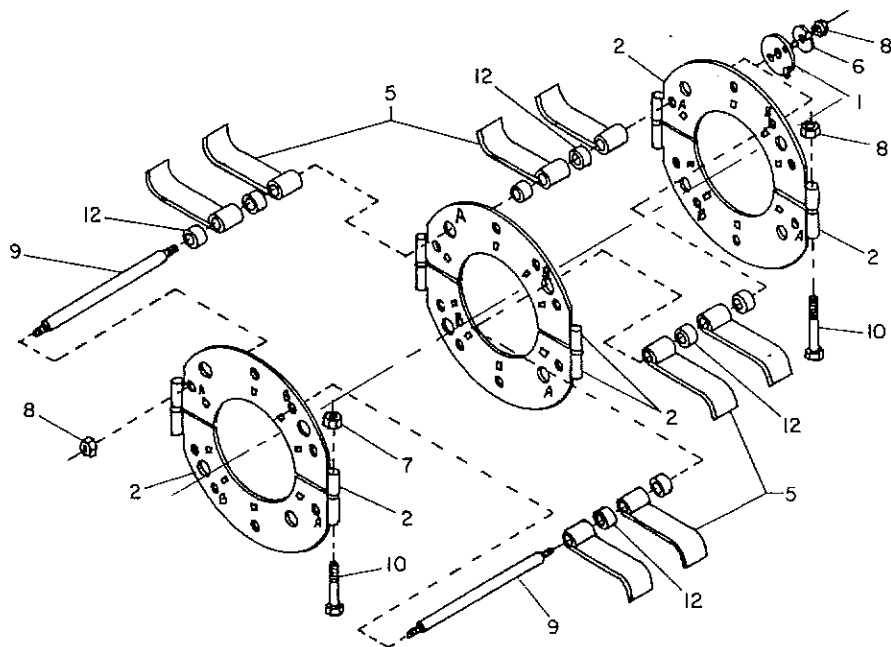


ITEM	PART NUMBER	QTY	DESCRIPTION
1	020310	4	Washer, Special Lock
2	241480	4	Bracket Wldt, Flail
3			
4	E278029	18	Flail, Rubber
5	010720	4	Tab, Special Lock
6			
7	I9413967	-	Nut, Stover 1/2"
8	E580200	4	Pin, Flail
9	160350	-	Bolt, HHCS 1/2" x 5"
10			
11	E724311	12	Spacer, 7/8"
12	020430	-	Washer, Flat 5/8"

STEEL FLAIL CLUSTER ASSEMBLY

#1 ROTOR

E104515 ASSEMBLY

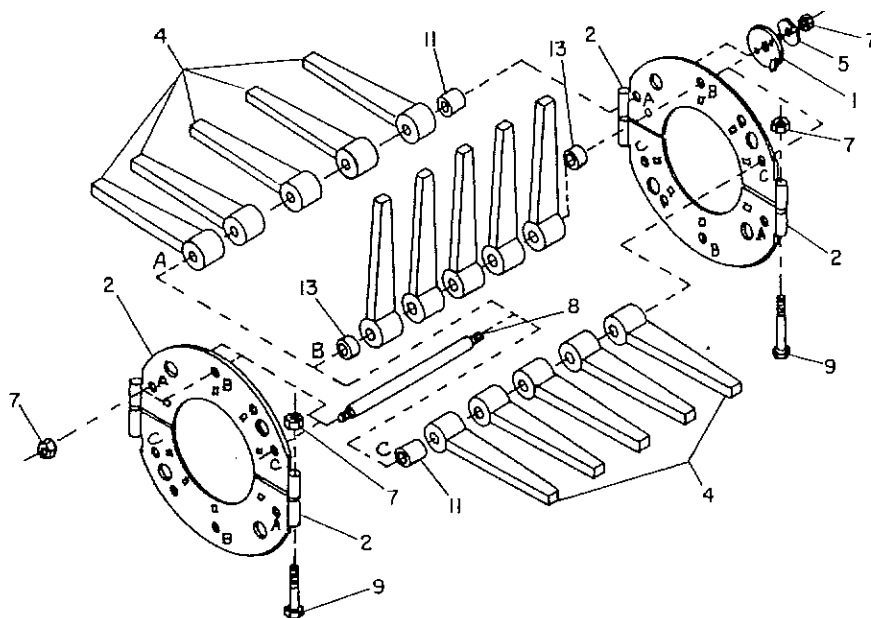


ITEM	PART NUMBER	QTY	DESCRIPTION
1	020310	4	Washer, Special Lock
2	241480	6	Bracket Wldt, Flail
3			
4			
5	E392028	16	Knife
6	010720	4	Tab, Special Lock
7	I9413967	-	Nut, Stover 1/2"
8	I9413967	-	Nut, Stover 1/2"
9	E580198	4	Pin, Flail
10	160350	-	Bolt, HHCS 1/2" x 5"
11			
12	E724313	16	Spacer, 3/4"

RUBBER FLAIL CLUSTER ASSEMBLY

#3 ROTOR

E104514 ASSEMBLY

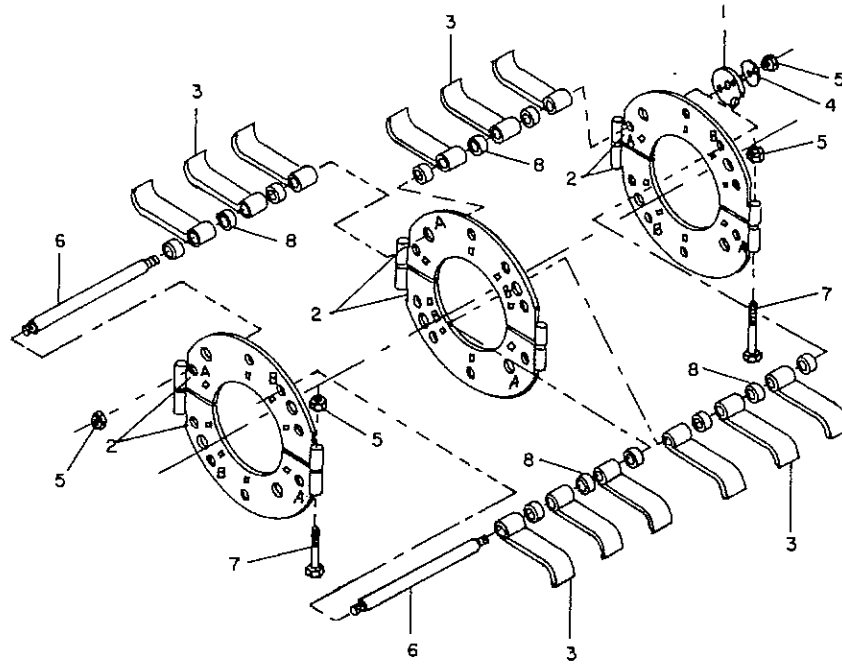


ITEM	PART NUMBER	QTY	DESCRIPTION
1	020310	4	Washer, Special Lock
2	241480	4	Bracket Wldt, Flail
3			
4	E278029	30	Flail, Rubber
5	010720	6	Tab, Special Lock
6			
7	I9413967	-	Nut, Stover 1/2"
8	E580200	6	Pin, Flail
9	160350	-	Bolt, HHCS 1/2" x 5"
10			
11	E724312	4	Spacer, 1-3/4"
12			
13	E724311	4	Spacer, 7/8"

16" WIDE STEEL FLAIL CLUSTER ASSEMBLY

249300 ASSEMBLY

24170 FIELD CONVERSION



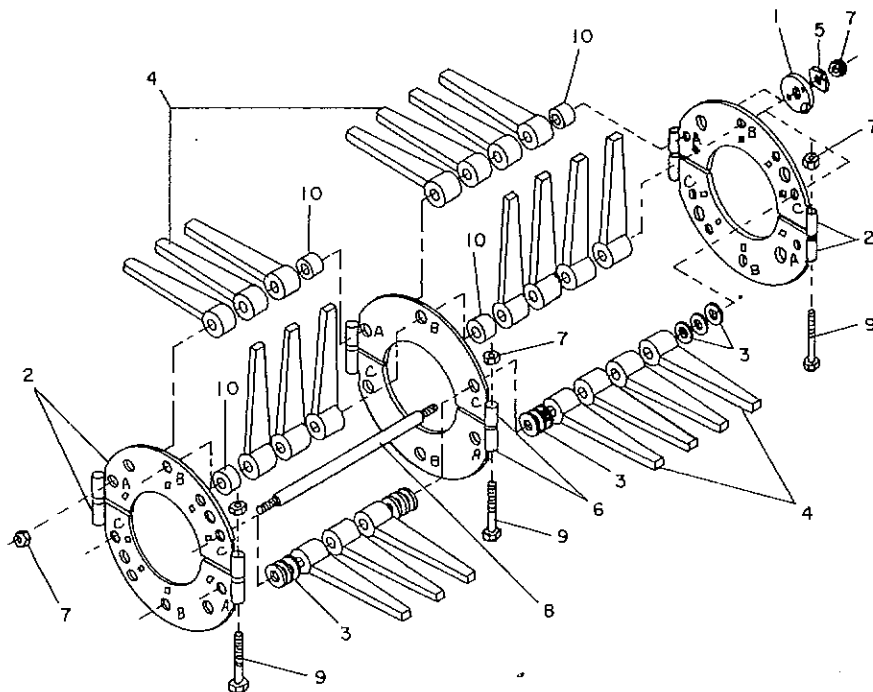
ITEM	PART NUMBER	QTY	DESCRIPTION
1	020310	4	Washer, Special Lock
2	241480	6	Bracket Wldt, Flail
3	E392028	24	Knife
4	010720	4	Tab, Special Lock
5	I9413967	-	Nut, Stover 1/2"
6	241580	4	Pin, Flail
7	160350	-	Bolt, HHCS 1/2" x 5"
8	242070	-	Spacer, 1/2"

16" WIDE STEEL FLAIL CLUSTER ASSEMBLY

#3 ROTOR 28" AND 30" ROW WIDTHS

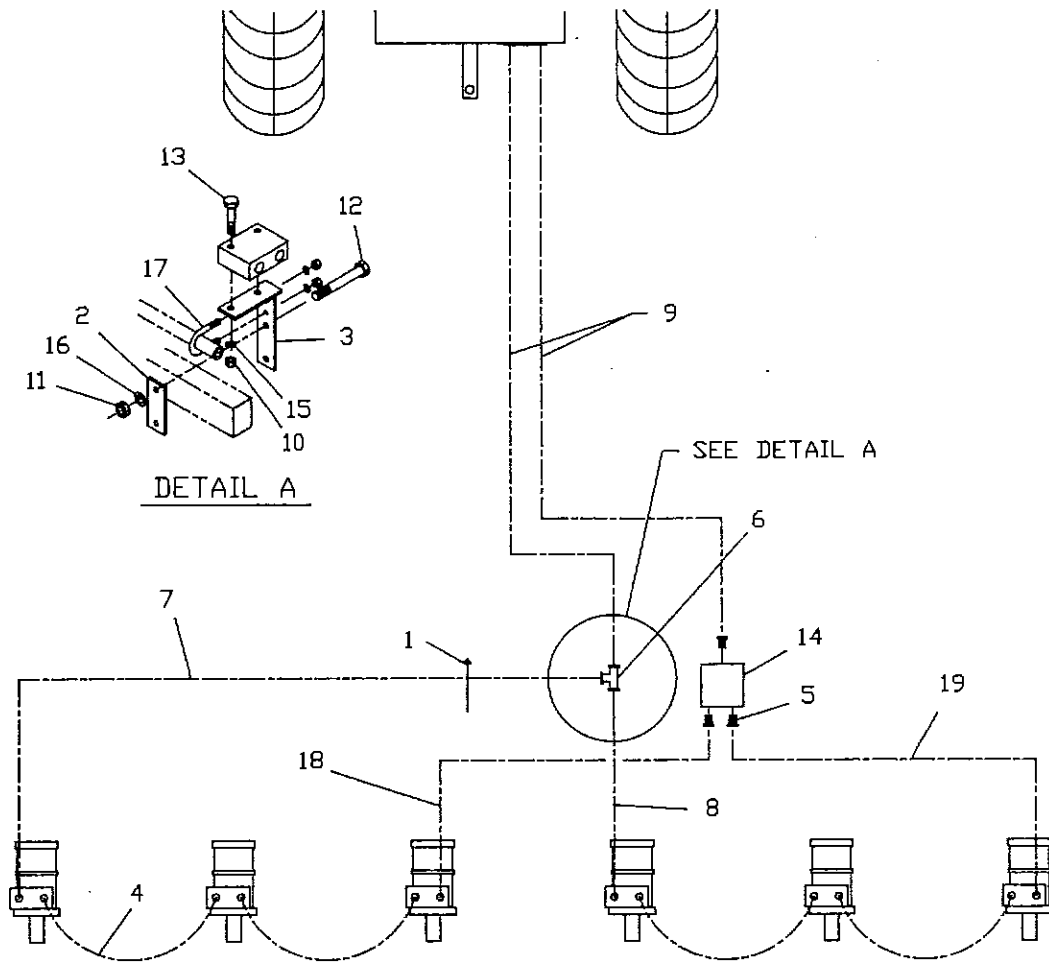
249310 ASSEMBLY

E390350 FIELD CONVERSION



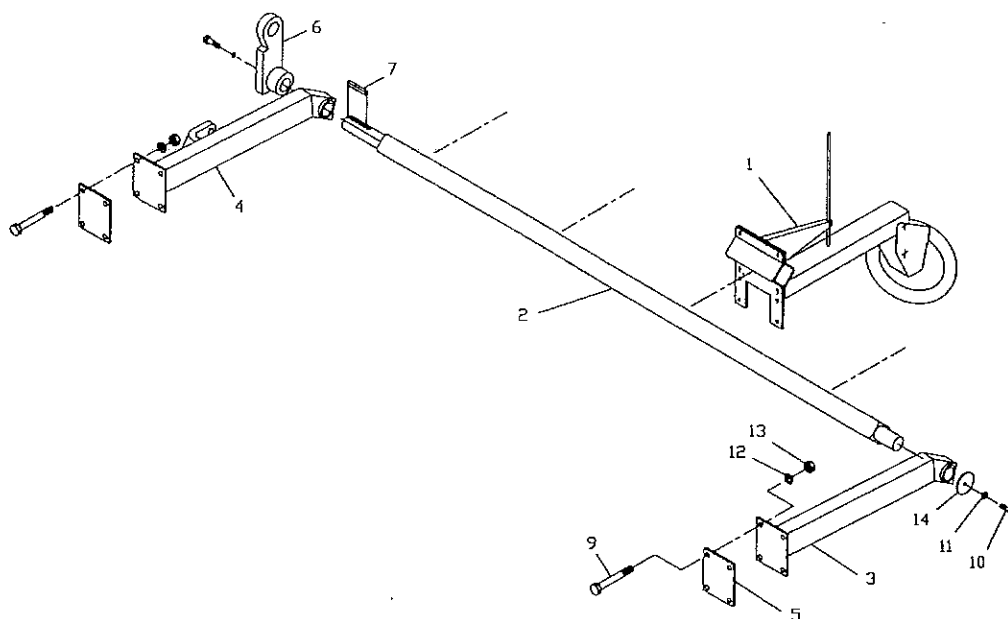
ITEM	PART NUMBER	QTY	DESCRIPTION
1	020310	-	Washer, Special Lock
2	241480	4	Bracket Wldt, Flail
3	020430	-	Washer, Flat 5/8"
4	E278029	42	Flail, Rubber
5	010720	6	Tab, Special Lock
6	E104517	2	Bracket Wldt, Center
7	I9413967	-	Nut, Stover 1/2"
8	E580199	6	Pin, Flail
9	160350	-	Bolt, HHCS 1/2" x 5"
10	E724311	8	Spacer, 7/8"

HYDRAULIC SCALPER PLUMBING



ITEM	PART NUMBER	QTY 784A	QTY 786A	QTY 630	DESCRIPTION
1	149670	8	8	8	Tie, Nylon Cable
2	E174207	1	1	1	Plate, Clamp
3	E174208	1	1	1	Clamp Wldt
4	E356090	2	4	4	Hose, 1/2" x 42"
5	007420	4	4	4	Bushing, 3/4" x 1/2" NPT
6	006320	1	1	1	Tee, 1/2" NPT
7	E356012	-	-	1	Hose, Hyd 1/2" x 144"
7	164560	1	1	-	Hose, Hyd 1/2" x 120"
8	256090	1	1	1	Hose, Hyd 1/2" x 84"
9	046090	2	2	2	Hose, Hyd 1/2" x 240"
10	027660	-	-	-	Nut, Hex 1/4"
11	005360	-	-	-	Nut, Hex 1/2"
12	030420	-	-	-	Bolt, HHCS 1/2" x 4-1/2"
13	031560	-	-	-	Bolt, HHCS 1/4" x 2-1/2"
14	E826039	1	1	1	Valve, Flow Divider
15	029440	-	-	-	Washer, Lock 1/4"
16	005370	-	-	-	Washer, Lock 1/2"
17	E840018	-	-	-	Bolt, U .312W
18	256090	1	1	-	Hose, Hyd 1/2" x 84"
18	E356015	-	-	1	Hose, Hyd 1/2" x 96"
19	E356090	1	-	-	Hose, Hyd 1/2" x 42"
19	256090	-	1	-	Hose, Hyd 1/2" x 84"
19	E356015	-	-	1	Hose, Hyd 1/2" x 96"

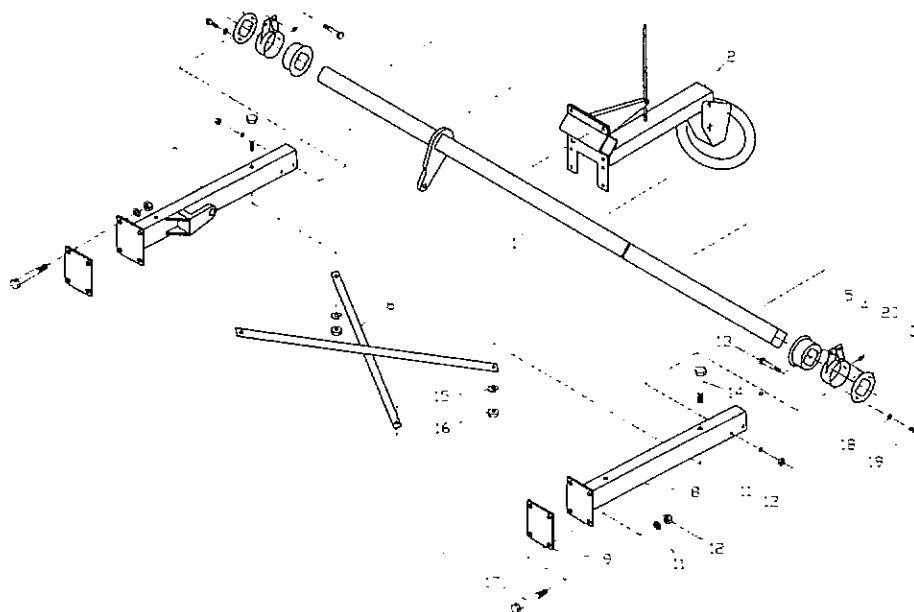
SCALPER ATTACHMENT, 4 ROW HYDRAULIC (784A MODEL) - 254050



ITEM	PART NUMBER	QTY	DESCRIPTION
1	255580	4	Head Assy, Scalper
2	256100	1	Lift Bar Wldt
3	235920	1	Support Weld, LH
4	240190	1	Support Weld, RH
5	E590154	2	Plate, Clamp
6	240200	1	Arm Weld
7	240420	-	Key, Sq. 5/8" x 2-1/4"
8			
9	242600	-	Bolt, HHCS 5/8" x 7-1/2"
10	031080	-	Bolt, HHCS 1/2" x 1"
11	005370	-	Washer, Lock 1/2"
12	020440	-	Washer, Lock 5/8"
13	I124589	-	Nut, Hex 5/8"
14	035210	-	Washer, Special

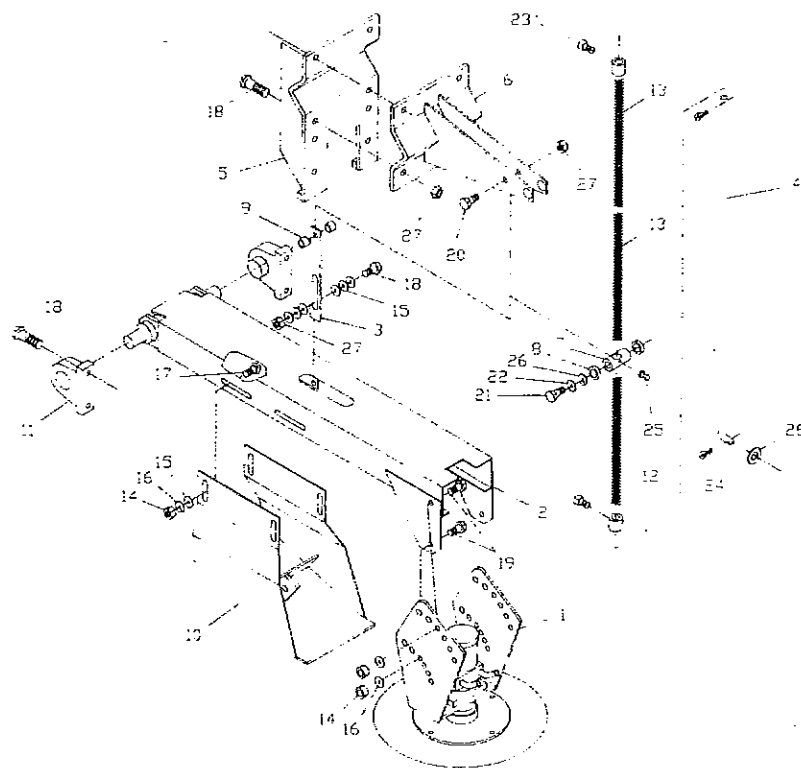
SCALPER ATTACHMENT, 6 ROW HYDRAULIC

254040 - 786A, 258700 - 630



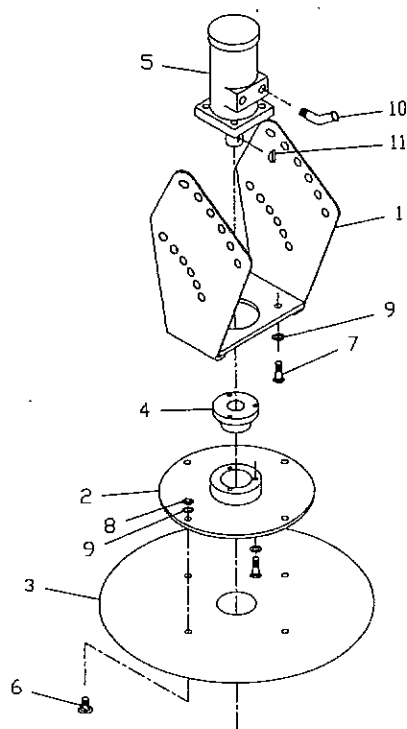
ITEM	PART NUMBER	QTY	DESCRIPTION
1	255910	1	Lift Bar Weld 786A
1	258680	1	Lift Bar Weld 630
2	255580	6	Head Assy, Scalper
3	255950	2	Plate, Outer
4	255960	2	Bracket Weld
5	256000	2	Pivot Weld
6	256040	2	Strap, Cross 786A
6	258660	2	Strap, Cross 630
7	279570	1	Arm Weld, RH
8	279580	1	Arm Weld, LH
9	255840	2	Plate, Clamp
10			
11	020440	-	Washer, Lock 5/8"
12	1124589	-	Nut, Hex 5/8"
13	028330	-	Bolt, HHCS 5/8" x 4-1/2"
14	018310	-	Bolt, HHCS 1/2" x 6"
15	005370	-	Washer, Lock 1/2"
16	005360	-	Nut, Hex 1/2"
17	242600	-	Bolt, HHCS 5/8" x 7-1/2"
18	021180	-	Washer, Lock 3/8"
19	012260	-	Bolt, HHCS 3/8" x 1"
20	115590	-	Zerk, 1/4" Tapered Drive

SCALPER ASSEMBLY, HYDRAULIC - 255580



ITEM	PART NUMBER	QTY	DESCRIPTION
1	255530	1	Motor & Bracket Assy (see page 31)
2	255590	1	Arm Wldt, Scalper
3	255660	1	Link, Limiting
4	255670	1	Rod, Spring
5	255680	1	Clamp Wldt
6	256160	1	Arm Wldt, Lift
7	255690	1	Swivel
8	255700	2	Bushing, 5/8" x 2" x 1/4"
9	255710	-	Spacer
10	256150	1	Shoe Weld
11	035090	2	Bearing, w/Lock Collar 1-1/4" PB
12	E184004	2	Collar, Slide
13	E738013	3	Spring, Compression
14	I25526R1	-	Nut, Hex 1/2"
15	I120396	-	Washer, Flat 1/2" x 1-1/8"
16	005370	-	Washer, Lock 1/2"
17	010730	-	Bolt, HHCS 1/2" x 1-1/4"
18	023950	-	Bolt, HHCS 1/2" x 2"
19	E672032	-	Bolt, HHCS 1/2" x 1-1/4"
20	990840	-	Bolt, HHCS 1/2" x 3"
21	E672055	-	Bolt, HHCS 5/8" x 1"
22	020440	-	Washer, Lock 5/8"
23	E672158	-	Screw, SHSS 1/2" x 5/8"
24	026630	-	Pin, Cotter 5/32" x 1-1/2"
25	049180	-	Zerk, 1/4"
26	020430	-	Washer, Flat 5/8" x 1-3/4"
27	127890	-	Nut, Lock 1/2"

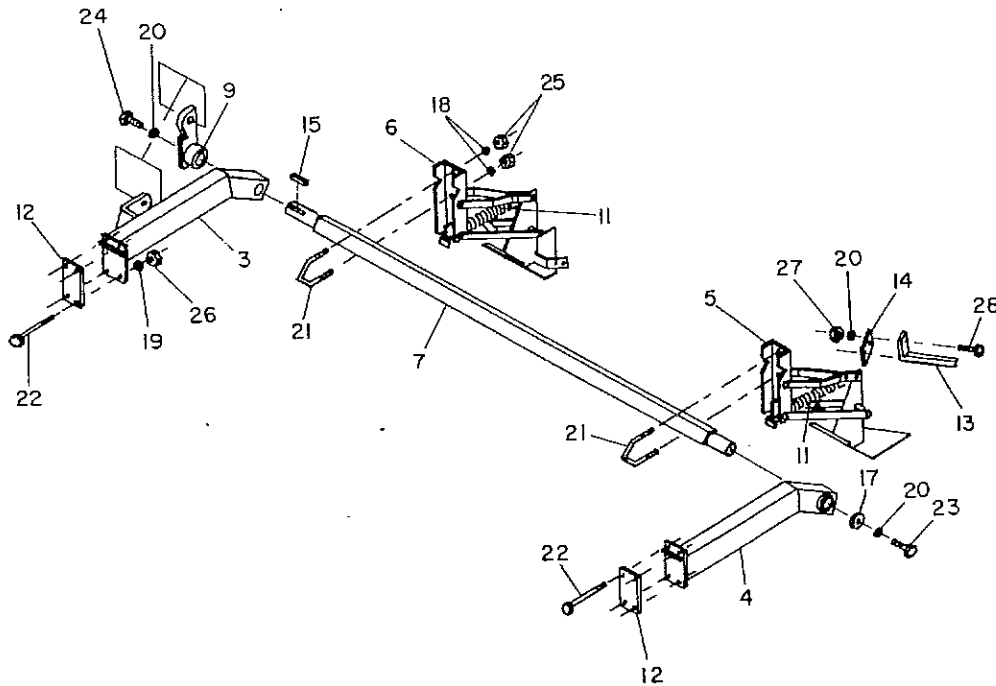
HEAD ASSEMBLY, HYDRAULIC SCALPER - 255530



ITEM	PART NUMBER	QTY	DESCRIPTION
1	255540	1	Bracket Weld, Motor Mount
2	255510	1	Hub, Disc
3	E232011	1	Disc
4	E126079	-	Bushing, 1" Bore 1/4" Keyway
5	E540034	1	Motor, Hydraulic
6	032840	-	Bolt, CRG 3/8" x 3/4"
7	012260	-	Bolt, HHCS 3/8" x 1"
8	027260	-	Nut, Hex 3/8"
9	021180	-	Washer, Spring Lock 3/8"
10	006490	2	Elbow, 45 Deg. St. 1/2" NPT
11	006180	-	Key, Woodruff 1/4" x 1"

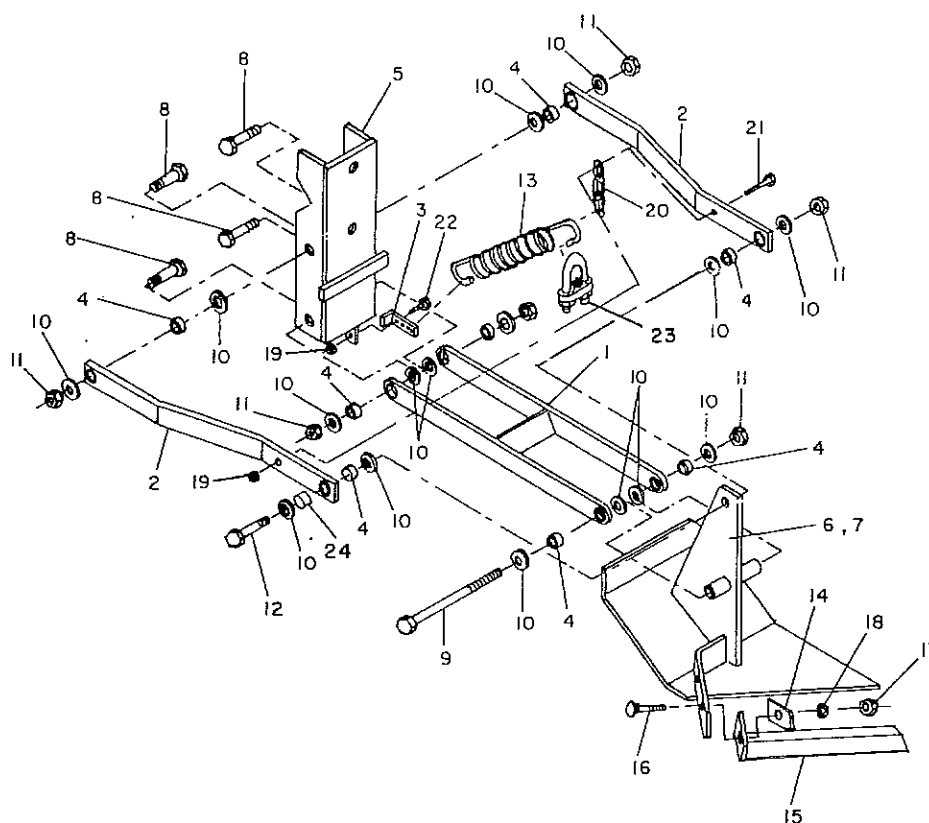
SCALPER ATTACHMENT, MECHANICAL

242080 - 784A, 240180 - 786A, 255330 - 630



ITEM	PART NUMBER	QTY 784A	QTY 786A	QTY 630	DESCRIPTION
1					
2					
3	240190	1	1	1	Support Weld, RH
4	235920	1	1	1	Support Weld, LH
5	E663015	2	3	3	Scalper Assy, LH
6	E663016	2	3	3	Scalper Assy, RH
7	240300	-	1	-	Bar Weld, 786A
7	241970	1	-	-	Bar Weld, 784A
7	255190	-	-	1	Bar Weld, 630
8					
9	240200	1	1	1	Arm Wldt, Scalper Lift
10					
11	E738016	4	6	6	Spring
12	E590154	2	2	2	Plate, Clamp
13	E392001	4	6	6	Knife
14	E174016	4	6	6	Clamp
15	240420	-	-	-	Key, Sq. 5/8" x 2-1/4"
16					
17	E829107	-	-	-	Washer, Special
18	036800	-	-	-	Washer, Lock 3/4"
19	020440	-	-	-	Washer, Lock 5/8"
20	005370	-	-	-	Washer, Lock 1/2"
21	E840001	4	6	6	U-Bolt, 3/4" x 6"
22	E672446	-	-	-	Bolt, HHCS 5/8" x 7"
23	031080	-	-	-	Bolt, HHCS 1/2" x 1"
24	1770500	-	-	-	Bolt, HHCS 1/2" x 1-3/4"
25	036750	-	-	-	Nut, Hex 3/4"
26	I124589	-	-	-	Nut, Hex 5/8"
27	005360	-	-	-	Nut, Hex 1/2"
28	991200	-	-	-	Bolt, CRG 1/2" x 2"

SCALPER ASSEMBLY, MECHANICAL - 255330



ITEM	PART NUMBER	QTY	DESCRIPTION
1	E036073	1	Arm, Lower
2	E402906	2	Arm, Upper
3	240290	1	Bar, Spring Take-Up
4	242330	8	Bushing
5	240310	1	Clamp
6	E698009	-	Shoe, LH
7	E698010	-	Shoe, RH (Shown)
8	990620	-	Bolt, HHCS 5/8" x 2"
9	242600	-	Bolt, HHCS 5/8" x 7-1/2"
10	020430	-	Washer, Flat 5/8"
11	E552046	-	Nut, Lock 5/8"
12	990650	-	Bolt, HHCS 5/8" x 3"
13	E738016	1	Spring
14	E174016	1	Plate, Clamp
15	E392001	1	Knife
16	991200	-	Bolt, CRG 1/2" x 2"
17	005360	-	Nut, Hex 1/2"
18	005370	-	Washer, Lock 1/2"
19	025670	-	Nut, Lock 5/16"
20	240360	1	Chain, 3 Links
21	009800	-	Bolt, HHCS 5/16" x 2-1/2"
22	005900	-	Bolt, HHCS 5/16" x 1"
23	240330	2	Bushing

DECALS AND PAINT

PART NUMBER	DESCRIPTION
043121	Paint, 16 oz. Spray Can Green
021990	Paint, 1 Qt. Can Green
022010	Paint, 1 Gal. Can Green
E224032	Decal, Warning-Do Not Lift Cover
E224071	Decal, Caution-Keep Hands-Shields
E224072	Decal, Warning-Stand Or Ride
E224133	Decal, Slow Moving Vehicle
E224150	Decal, Danger-Stay Away
115370	Decal, Hitch Instructions
211260	Decal, Important-Adjust Springs
227420	Reflector, Amber
227430	Reflector, Red
234340	Decal, Caution 8 Instructions
235420	Decal, Important Idler Spring
279550	Decal, Idler Spring
146670	Decal, Grease
355200	Decal, Warning-Flying Objects
355450	Decal, Art's-Way Logo 20"
355460	Decal, Stripe Gold Metallic
356160	Decal, 784A Model
356180	Decal, 630
356170	Decal, 786A
356130	Decal, 784A
356140	Decal, 786A
356150	Decal, 630

SPECIFICATIONS

784A - 4-ROW - 22" OR 24" ROW SPACING

786A - 6 ROW - 28" OR 30" ROW SPACING

630 - 6 ROW - 28" OR 30" ROW SPACING

Operating Speed of PTO	1000 RPM
Tractor Requirements	130/140 HP Recommended (100 HP MIN.)
Drives:	
Gearbox	Heavy Duty 1:1.5 Ratio
Belts	C-Section - Power band
Belt Tighteners	Spring Loaded
Rear Wheels	Dual Fixed or Steerable with Height Adjustment
Tires	7.60 - 15 Ground Drive (4)
Top Cover & Rear Drop	Heavy Duty Belting (Between Rotor & Tires)

	784A	786A	630
Row Spacing	4 - 28" or 30"	6 - 22" or 24"	6 - 28" or 30"
Inside Width	9'4"	11'10"	14'4"
Operating Dimensions	43"H x 11'9"W	43"H x 14'3"W	43"H x 16'9"W
W/O Scalper	16'6"L	16'6"L	16'6"L
W/Knife Scalper	20'6"L	20'6"L	20'6"L
Shipping Dimensions			
34"H x 11'6"L x	11'9"W	14'3"W	16'9"W
Weight (Approx.)	4500 lbs.	5300 lbs.	6300 lbs.

Rotors	Three Rotors
#1 (Front) Rotor	12" Flail Clusters (One Cluster Per Row) Standard, Option of Steel* or Rubber Flails, 16 Steel Flails or 18 Rubber Flails Per Cluster
#2 (Center) Rotor	12" Clusters with 18 Rubber Flails Per Cluster
#3 (REAR) ROTOR	12" Clusters with 30 Rubber Flails Per Cluster

*When steel flails are ordered, the unit is shipped with a rubber trash deflecting skirt in front.

Height Adjustment	Lift Cylinder in Front (not provided), Screw Jack at Wheels in Rear
Drive Shields	Designed for One Man Removal (3)

OPTIONS

Constant Velocity PTO
 Steel or Rubber Flails on Front or #1 Rotor
 Scalper Attachment - Knife or Hydraulic Disk
 Fixed or Steerable Rear Wheels
 Cluster Width (12" or 16" on #1 Rotor)

INDEX

PART NUMBER	ITEM	PAGE	PART NUMBER	ITEM	PAGE	PART NUMBER	ITEM	PAGE	PART NUMBER	ITEM	PAGE
003350	24	15	010730	17	30	020440	11	29	027260	21	17
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005200	11	6	012260	15	8	020440	19	32	027260	8	31
005200	11	8	012260	15	11	020730	20	13	027660	10	27
005200	11	11	012260	54	17	020730	21	15	028330	45	15
005200	10	17	012260	54	19	020880	16	17	028330	13	29
005200	10	18	012260	19	29	020880	16	19	029440	15	27
005200	2	20	012260	7	31	021180	19	6	030030	28	7
005200	3	21	012270	56	17	021180	19	8	030030	28	9
005360	12	6	012270	56	19	021180	19	11	030030	28	11
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005360	11	18	012630	18	13	021190	20	8	030470	29	11
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005360	27	32	018310	14	29	021530	21	8	032840	6	31
005360	17	33	018850	24	13	021530	21	11	033080	30	7
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006240	16	15	020430	7	21	023630	24	11	046090	9	27
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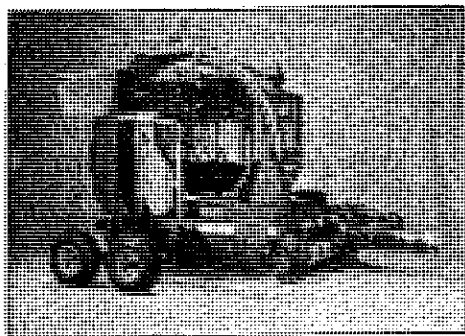
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"A Total Sugar beet Harvesting System"

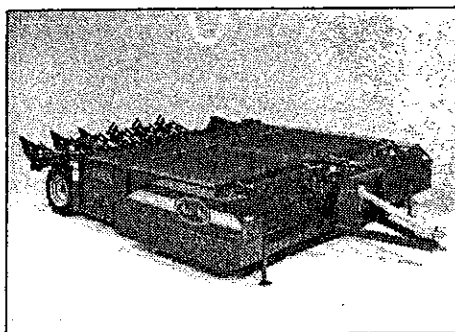
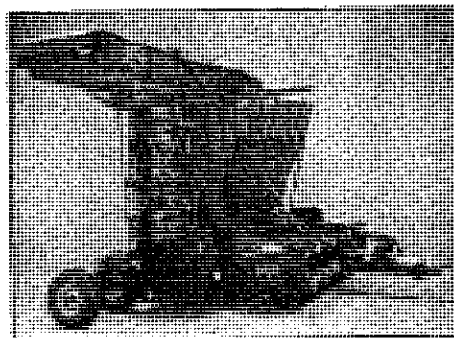


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