

# Dalton

A G P R O D U C T S



## OPERATING AND PARTS MANUAL

*MOBILITY 600, 650, 800, & 900*



[www.DaltonAg.com](http://www.DaltonAg.com)

602 E. VAN BUREN | LENOX, IOWA 50851 | 800.342.7498

# TO YOU, THE OWNER

Your MOBILITY SPREADER is the most modern, up-to-date, versatile machine available for broadcast application of bulk fertilizer and other granular materials. The machine is the result of many years of experience, research, development and testing of equipment for broadcast application. It is soundly engineered and carefully built to rigid specifications. It is of rugged and simple construction, with a minimum of moving parts.

However, to obtain maximum performance from your spreader, it is necessary to follow the instructions and safety suggestions in this manual. Each section has been carefully prepared for the purpose of providing needed and valuable information to the owner and operator. Each operator of this unit should be familiar with the contents of this manual. Keep it in a safe and convenient location.

THERE ARE MANY SAFETY SUGGESTIONS (CAUTION AREAS) PRINTED THROUGHOUT THIS MANUAL. CAREFULLY READ THEM ALL BEFORE OPERATING THIS UNIT.

## WARRANTY POLICY

Your machine is warranted in accordance with the Dalton Ag, Inc. Warranty, printed on the inside back cover of this manual.

This warranty is null and void if you fail to return the warranty card to Dalton Ag, Inc. within 30 days from the date of purchase. Please mail the card now, so that it will not be lost or misplaced.

Dalton Ag, Inc. reserves the right to inspect damaged or defective parts before issuing credit.

## DESIGN IMPROVEMENTS

Dalton Ag, Inc. follows a policy of continuous product improvement. We therefore reserve the right to make design improvements, and changes in specifications and prices, without incurring obligations to make revisions or additions to equipment previously sold.

# SAFETY

## ***GENERAL:***

1. Keep all guards and shields in place.
2. Clear the area before start-up.
3. Keep all hands, feet, and loose clothing away from moving parts.
4. Never sit or stand on unit while it is in operation. The inspection ladder should only be used when inspecting the mixing operation. Always stand at a safe height on the inspection ladder.
5. Be certain the unit is completely stopped and disconnected from the power source before adjusting, lubricating, cleaning or making repairs.
6. Never alter or modify equipment.

## ***HYDRAULIC:***

1. Hydraulic oil under high pressure in hydraulic lines can leak, penetrate the skin and eyes and cause serious injury. NEVER try to deflect or stop hydraulic leaks with your hand or body. ALWAYS wear protective eyewear when working around any equipment.
2. ALWAYS make sure all components in the hydraulic system have a working pressure rated at least as high as the pressure stated on the pump.
3. Before each use, check all hoses for wear or damage.
4. Make sure all hydraulic fluid hose connections are tight before each use.
5. Replace any damaged hose. Never try to mend a hose with tape or any other device.

## ***LIVE AXLE GROUND DRIVE***

The new “Live Axle Ground Drive” on the hydraulic walkbeam improved the reliability of the axle. The wheel hubs now support the weight of the spreader and the load. The axle is used only to transfer torque and operate the spinners.

The engaged/disengage system is highly visible and allows the user to know with certainty when the spreader spinners are operating.

## ***OPERATION PROCEDURE***

To disengage: Pull handle straight out and turn counter-clockwise until the pin is over the ‘dead’ hole. Allow the spring to pull the pin into the hole and release the handle.

To engage: Pull handle straight out and turn clockwise until the pin is over the ‘live’ hole. Allow the spring to pull the pin into the hole and release the handle. Move the spreader forward slowly approximately two feet to allow the pin to engage the axle.

## ***CAUTION:***

Do not back-up the spreader with the drive assembly engaged.

## ***LIVE AXLE WHEEL REMOVAL / INSTALLATION***

REMOVAL: Raise the hydraulic side of the spreader and block the wheels. Remove the cotter pin, washer and spring from the engagement mechanism. Pull out the mechanism. Remove the wheel bolts and the wheel. The wheel must be pulled from the hub and slid up over the drive arm.

INSTALLATION: Put wheel on over drive arm and then onto hub. Install the wheel bolts. Put spring on long pin of engagement mechanism. Hold spring in position and slide drive pin into drive arm. Put washer on long pin and insert the cotter pin to lock in the spring.

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# SPECIFICATIONS

MODELS	600	650	900
CAPACITY (CU.FT.)	200	223	300
W/60 LB. MATERIAL (TONS)	6	6.5	9
WEIGHT (LBS.) (APPROX.)	3,100	4,020	4,240
TANK DIMENSIONS (INCHES)	93" X 108"	93" X 120"	93" X 120"
OVERALL LENGTH	17' 1 1/2"	18' 9"	18' 9"
OVERALL WIDTH	8'	8'	8'
OVERALL HEIGHT	7' 2"	7' 8"	8' 10"
LOADING HEIGHT	6' 9"	7' 3"	8' 5"
WHEEL TRACK (STD)	76"	76"	76"
TIRES	16.5 X 16.1	16.5 X 16.1	16.5 X 16.1
BRAKES	2 WHEEL	2 WHEEL	4 WHEEL
HARDTOP DOORS	N/A	OPTIONAL	OPTIONAL
TUCK-AWAY TARP (ROLL-UP TYPE)	N/A	OPTIONAL	OPTIONAL
FORM FITTING TARP	STANDARD	N/A	N/A
FLIP-TOP TYPE (FOLDING TYPE)	OPTIONAL	N/A	N/A

SPINNER DRIVE PROTECTION	-----V-BELT
SUSPENSION	-----WALKING BEAM TANDEM AXLE
PTO DRIVE	-----540 RPM, 1000 RPM OPTIONAL
PTO SHAFT	--L12N, 20 HP RATED, NEEDLE BRGS
ALL GROUND DRIVE HYDRAULIC	-----OPTIONAL
WHEEL BEARINGS	-----TAPERED ROLLER BEARINGS
TANK MATERIAL	-----14 GA. STAINLESS STEEL
TONGUE JACK	--3000 LB. SWING-AWAY SCREW TYPE

SPECIFICATIONS, continued

DISTRIBUTOR DISCS	--22", DUAL, DISHED TURBO DISTRIB. SINGLE SPINNER OPTIONAL
CONVEYOR TROUGH COMPLETE	-----STAINLESS STEEL
CONVEYOR CHAIN	-----STAINLESS STEEL
#40 GROUND DRIVE CHAIN	-----STAINLESS STEEL
#50 CONVEYOR DRIVE CHAIN	-----STAINLESS STEEL
METERING GATE, REAR SKID & TAKE-UP BOLTS	-----STAINLESS STEEL
SPREADING WIDTH, AVG. MAT'L	-----50 FT.
SPREADING CAPABILITY	-----60 LBS. PER ACRE & UP
EXTERIOR FINISH, INCLUDING FRAME	-----4-6 MILS EPOXY ESTER ON SANDBLASTED STEEL, ZINC CHROMATE
WHEELS	-----11.00 X 16.1
SPINDLE DIAMETER	-----2 3/4"
AXLE RATING	-----20,000 LBS.
GATE JACK	-----1000 LB. SCREW TYPE
CONVEYOR DRIVE	-----4.10/3.50-5 PNEUMATIC TIRE GROUND DRIVEN, SINGLE CHAIN, 2 SPEED
CONVEYOR DRIVE PROTECTION	-----1/4" SHEAR BOLT
BRAKE ACTUATOR	--SURGE TYPE W/SAFETY BREAK-AWAY FEATURE

## MACHINE CHECK-OUT

Before attempting to use or operate the spreader it is important to be thoroughly familiarized with the contents of this manual. The machine should then be checked using the following check list:

1. Ground drive tire inflated to 35 PSI. Flotation tires inflated to 32 PSI for tandem axle spreaders.
2. All bearings lubricated and tightly mounted with collars securely locked. (See Lubrication Schedule).
3. Conveyor chain, drive chain, and ground drive chain adjusted to correct tension. Conveyor chain should clear frame members by 1/2" - 3/4".
4. Sprockets tightened and in proper alignment.
5. Inspect entire machine for loose bolts, especially in the spinner assembly and drive line area.
6. Distributor fan blades set properly. (See spread adjustment and application rates).
7. Setting of metering gate. With the pointer on the number 1 of the spread rate chart decal, the lower edge of the metering gate should be 1 1/4" above the trough floor.
8. Make sure that the ground drive travel limit bolt is set to allow 1 1/4" disengagement clearance between ground drive tire and flotation tire to allow a maximum travel of 7 turns of the crank handle after the ground drive tire makes contact with the flotation tire.
9. Tighten wheel bolts daily. (75 foot pounds for tandem axle spreaders.)
10. Test operation of brakes and brake actuator. Make sure master cylinder is full of hydraulic fluid.
11. Check drive line for ease of operation by turning shaft by hand. If the foregoing inspection reveals that additional lubrication or adjustment is required, refer to the proper section of this manual for detailed instructions.
12. Ground drive wheel and universal joint shear bolts in place and tight.
13. Check both spinner gear boxes for oil, fill to level of pipe plug with SAE #90 non-detergent oil.

# MAINTENANCE

## LUBRICATION

Careful observance of the following lubrication schedule is the best preventative maintenance program for your spreader. We recommend that you establish a firm program to insure lubrication in strict compliance with the following schedule. Use only good grade pressure gun type grease unless otherwise specified.

### DAILY LUBRICATION SCHEDULE

Drive Line	Grease - 4 bearings, 2 U-Joints
Conveyor	Grease - 6 Bearings
Ground Drive	Grease - 2 Shaft Housings, 2 U-Joints, Telescoping Tube, and 2 squirts of SAE 90 Oil into Crank Jack, Oil Cap.

Pay particular attention to the daily cleaning and greasing of the telescoping tube assembly.

### WEEKLY LUBRICATION SCHEDULE

Walking Beam Pivot	Grease - 2 Places
Brake Actuator	Grease - 5 Places Check Hydraulic Oil Reservoir. If level is low, check for leaks and tighten fittings. Replace damaged hoses and lines or rebuild cylinders if required. Fill, bleed, check for brake action and adjust as necessary. See Brake Systems and Actuator sections of this manual for detailed instructions. Use only 70R1 or 70R3 heavy duty hydraulic brake fluid.
Chains	Oil - Lubricate Pin Joints with SAE 80-90.
PTO Shaft	Grease - 2 U-Joints & Slip Tube.

## LUBRICATION, continued

### MONTHLY LUBRICATION SCHEDULE

Drive Shaft Splines	Coat with grease or anti-seize compound.
Spinner Gear Box	Check to see that oil level is up to oil level plug. Use SAE 90 Oil.

### ANNUAL LUBRICATION SCHEDULE

Wheel Bearings	Repack
Gear Boxes	Drain, flush and refill with SAE 90 oil

## MAINTENANCE

### WEEKLY

Wash spreader.  
Check ground drive tire inflation (35 PSI).  
Correct belt tension.  
Adjust tension of Conveyor and Drive Chains (see machine check-out).

### SEMI-ANNUALLY

Touch-up paint.

## WHEEL BEARING ADJUSTMENT

After repacking or when inspecting wheel bearings, the following adjustment procedure should be followed. Place flat washer and spindle nut on the spindle. Turn hub as you tighten nut. When a pronounced drag is felt in the bearings, back off nut one complete slot. If necessary, continue to back off the nut until the next slot aligns with the cotter pin hole and install cotter pin and dust cap.

## CONVEYOR CHAIN ADJUSTMENT

Loosen chain take-up locking nuts on outside of front end of trough. Adjust take-up bolts evenly until chain clears main frame members and axle tube by 3/4" to 1/2". Inspect shaft bearing mounting bolts and shaft locking collars for tightness of set screws (6 bolts). Reset take-up locking nuts.

MAINTENANCE, continued

GROUND DRIVE ADJUSTMENT

Travel limit bolt setting, when correct, will allow ground drive tire to disengage the vehicle tire by 1 1/4". Engagement stop should prevent the ground drive tire from penetrating into the vehicle tire more than seven (7) complete turns of the engagement crank.

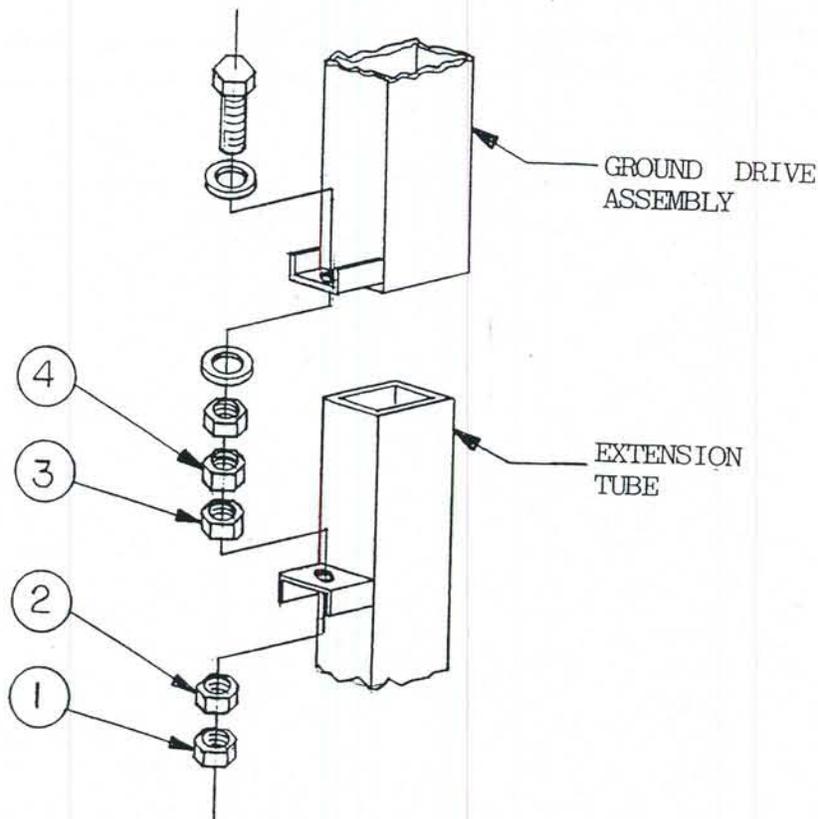
Keep shear bolts tight and always carry a spare pair of bolts of the proper size in the holes provided on the left side of the tank. The shear bolts are located on the U-joint collar and on the ground drive tire hub.

Keep shear bolt shaft and collar clean and well greased.

Chain sprockets should be aligned within 1/32" and tensioner should be set 1/32" inboard from tight condition.

WARNING

Applying excessive tension to the ground drive wheel can cause bearing and/or shaft failure.



## GROUND DRIVE LIMITING ADJUSTMENT

1. Adjust nuts (1) and (2) to allow 1 1/4" clearance between spreader tire and ground drive tire.

2. Proper friction between tires will be achieved by adjusting nuts (3) and (4). Proper adjustment, (a maximum of 7 turns of the crank handle after the ground drive tire makes contact with the floatation tire) will permit drive tire to be slipped when grasped with both hands and turned.

## WALKING BEAM PIVOT ADJUSTMENT

The castle nut should be tightened until there is 1/64" (.0156") or less clearance between nut and thrust washer. Install cotter key.

## BRAKES

For your protection, the MOBILITY SPREADER can be obtained with brakes.

This heavy duty self-centering brake will give you the needed stopping power when pulling maximum loads at high speeds. The MOBILITY brake system also offers a back-up feature that allows the machine to move in reverse without applying the brakes.

To maintain safe and dependable braking power, the system must be checked periodically for leaks and proper adjustment.

A major annual inspection must be performed. Inspection of all brake shoes, lines, and drums is a must and a requisite for maximum safety and efficiency.

Use only SAE 70R1 or 70R3 heavy-duty brake fluid when refilling actuator reservoir.

Always clean area around filler cap before opening, to insure that dirt and other foreign material does not get into the actuator reservoir.

It must be noted that the brakes are marked 'right' and 'left'. To determine the right or left side of the machine, stand in back of the machine and face the direction of travel. Due to the "back-up" feature, the right brake must go on the right side and the left brake must go on the left side.

Servicing of the brake system should be performed in accordance with the following procedures.

## CLEANING

Granular fertilizers and other corrosive materials are destructive to metal. To prolong the life of a braking system used under corrosive conditions, we recommend that the actuator be flushed periodically with a high pressure water hose. Be sure to

## MAINTENANCE, BRAKES, continued

re-grease bearings and oil all moving parts after the unit has dried.

At the end of the season, when the unit is to be stored, remove the brake drums and clean inside the brakes. Pack wheel bearings before drum is installed.

### ADJUSTING BRAKES

The brake adjustment nut is located behind a slot at the bottom of the backing plate. Tighten until lining drags slightly on the drum, then back off the adjustment 10 to 12 notches. This is to provide a free wheel with no drag. Always rotate drum in direction of forward rotation only.

### BLEEDING

If pressure bleeding equipment is available, follow the manufacturers instructions in bleeding the system.

If system must be bled manually, proceed as follows;

Remove damper pin to facilitate manual bleeding. Fill master cylinder with brake fluid. Install bleeder hose on first wheel cylinder to be bled, rear wheel first. Have loose end of hose submerged in brake fluid in glass container to observe bubbling.

By loosening the bleeder screw located in the wheel cylinder one turn, the system is open to the atmosphere through the passage drilled in the screw. Pump actuator with long steady strokes. The bleeding operation is completed when bubbles no longer rise to the surface of the fluid. Be sure and close the bleeder screw securely.

Repeat bleeding operation at each wheel cylinder. During the bleeding process, replenish the brake fluid, so the level does not fall below the 1/2 full level in the master cylinder reservoir. After bleeding is completed, make sure master cylinder reservoir is filled and filler cap securely in place.

Replace damper pin on actuator and secure with snap ring or cotter pin as necessary.

### WHEEL CYLINDER REPAIR

In overhauling wheel cylinders, it is best to remove the cylinder from the brake cluster assembly in order to facilitate repair.

To dis-assemble, remove the cylinder, unhooking the brake shoe lever retracting spring and expand the shoe levers by hand. Disconnect hydraulic line, remove cylinder mounting bolts and lift cylinder from mount. If cylinder is connected with brake hose, loosen, but do not twist hose connection. Lift cylinder free of

MAINTENANCE, BRAKES, continued  
mount, pulling hose through mounting bracket. Then unscrew  
cylinder from hose end.

Remove the rubber boot. Push out internal parts or apply low  
pressure compressed air to fluid inlet, blowing parts from  
cylinder.

Clean parts well and keep them clean. There must be no trace  
of dirt, metal filings, sludge, or other deposits when the unit is  
ready for assembly. Use lint-free cloth in cleaning. Internal  
parts must be cleaned in denatured alcohol or hydraulic brake fluid  
to remove all traces of solvent. Mineral base solvents deteriorate  
rubber parts.

To re-assemble, lubricate parts and cylinder wall with clean  
brake fluid. Push in spring, rubber cup and one piston. To  
assemble the rubber cup, cock it slightly so the flange will not  
bind. A slight vacuum applied to the fluid inlet will prevent the  
spring from forcing out the cup. Install the boot, making certain  
it is seated into the boot grooves provided on cylinder.

#### INSTALLING BRAKES

Place the brake against spindle flange. Mounting bolts  
are supplied with the brake. Nuts and lock washers are also  
provided. In mounting the brake, be sure the hydraulic wheel  
cylinder is at the top. Brakes are also marked as "rights" and  
"lefts".

#### INSTALLING BRAKE DRUM

When the brakes have been correctly assembled to the  
spindle flanges, the hub and drum assemblies may be mounted on the  
spindle.

Pack the inside bearing with suitable wheel bearing grease.  
Force grease through and around the rollers. Place the bearing in  
the hub and install the grease seal flush with the end of the hub  
using an arbor press or soft mallet. Remove excess grease.

To avoid injury to the bearing seal, lubricate seal seat prior  
to putting on the brake drum. Grease pack and install the outer  
bearing on spindle. Place flat washer and spindle nut on spindle.  
Turn drum as you tighten nut. When a pronounced drag is felt in  
the bearings, back-off nut one complete slot and install cotter pin  
and dust cap.

#### CAUTION

Do not pack hub full of grease. Excessive grease  
may leak into brake drums causing brake failure.

MAINTENANCE, continued

STORAGE

Before storing the spreader for more than a few days, the machine should be emptied completely and thoroughly washed both inside and out. This precaution will minimize the severity of fertilizer acid corrosion, extend the useful life of the machine and prevent damage to drive line and conveyor chain from fertilizer compaction and caking. We further recommend that the machine be thoroughly greased after washing.

Before operating the machine after extended periods of storage, relubricate the entire spreader in accordance with the lubrication section of this manual. Also check the entire spreader, following the "Machine Check-out Procedure" to be found in a foregoing section of the manual.

NOTE

Remember that oil and grease are your least expensive corrosion inhibitors.

# OPERATION

## SPREADING SAFETY

Before starting in motion, please read the following words of caution.

- a. It is recommended that initial spreading be done in low range if possible, to permit easy break-in.
- b. **Always shut off or disconnect power** to spreader before attempting to repair or adjust the spreader.
- c. **Do not transport machine with ground drive wheel engaged.**
- d. **NEVER** back-up spreader with ground drive wheel engaged, or hydraulic ground drive clutch engaged.
- e. Make sure that the towing vehicle brakes are operating properly and are capable of stopping the towing vehicle. Adequate brakes are designed for the spreader but they should not be relied upon to stop the towing vehicle.
- f. If a pick-up is used as the towing vehicle, it is wise to add ballast for additional safety and traction. We recommend that all towing vehicles be ballast loaded to their recommended GVW.
- g. Hitches should be of heavy construction and should be welded or bolted directly to the towing vehicle frame. Hitches should be checked routinely for loose bolts, cracked welds, etc.
- h. **NEVER** tow a spreader with a drawbar pin less than 1" in diameter. Pins should also have a locking device.
- i. **Check** spreader brakes **BEFORE** they are needed.
- j. **Do not** tow spreader at speeds in excess of 20 MPH loaded or 40 MPH empty.
- k. Remember, the stopping and braking distances vary with load and vehicle speed. It is well to familiarize yourself with the characteristics of your machine under different load and speed conditions.
- l. Be sure to attach safety break-away chain and the safety chain to towing vehicle to assure control of the spreader in case of pin or hitch failure.

OPERATION, continued

m. The unit is designed for hitching to vehicles with drawbar heights between 12" and 18" above the ground level. It will operate with all standard tractor hitches and PTO's.

WARNING

Hydraulically mounted drawbars must be securely and mechanically locked because a fully loaded spreader applies a load of approximately 2000 lbs. to the hitch.

n. Inspect hubs routinely to see if they are heating, which indicates either a need for lubrication or improper adjustment of brakes or bearings. Also check stud nuts for tightness.

WARNING

This unit is designed for agricultural use only and is primarily an off-road vehicle and should be towed at tractor speed only, not to exceed 20 MPH loaded or 40 MPH empty.

o. The maximum capacities of these units (based on a material density of 60 pounds per cubic foot) is as follows:

MODEL 600	6 tons or 200 cu. ft.
MODEL 650	6.5 tons or 223 cu. ft.
MODEL 900	9 tons or 300 cu. ft.

WARNING

!!!!!! DO NOT EXCEED THESE LIMITS !!!!!!!

OPERATING INSTRUCTIONS

PLEASE READ THE FOLLOWING COMPLETELY BEFORE SPREADING.

1. Attach spreader to towing vehicle; make sure hitch and hitch pin are sound.
2. Attach PTO shaft to 540 rpm PTO.
3. Spinner discs, adjustable chute and conveyor floor should be clean for accurate metering.
4. Set metering gate to desired spread rate according to decal on the back end sheet of tank. Always keep the machine in the lowest possible range.

## OPERATING INSTRUCTIONS, continued

5. Before starting to spread, rotate the ground drive wheel several revolutions by hand to make sure the conveyor chain is operating freely. If chain is frozen or moves with too much resistance, correct problem before using spreader.
6. If the ground drive wheel operates properly, check the chain and sprocket arrangement for desired range setting and chain tension.
7. Crank ground drive assembly down until the ground drive tire is just in contact with the flotation tire. Then crank the ground drive assembly down four (4) more turns for dry field applications. It may be necessary to give additional turns for wet or muddy field conditions. Always use handle retainer.
8. When spreading is complete, disengage ground drive assembly from the flotation tire. Raise to travel stop and apply handle retainer. Always leave machine in low range.

## SPREAD ADJUSTMENT AND APPLICATION RATES

For accurate and precise spreading rates, it is necessary that you know the weight in pounds per cubic foot of the material to be spread. If this is not known, the weight can be quickly and accurately determined by the following method;

1. Weigh an empty one gallon container.
2. Fill level full with the material to be used.
3. Weigh the container and material, then subtract the weight of the empty container to obtain the weight of the material.
4. Multiply the weight of the material by 7.5 to obtain the weight of the material in pounds per cubic foot.

**EXAMPLE:** Typical material - Potash.

- |  |                   |
|--|-------------------|
| 1. Weight of empty one gallon container. | 1.00 lbs.         |
| 2. Weight of filled container.           | 10.35 lbs.        |
| 3. Weight of material (net).             | 9.35 lbs.         |
| 4. $9.35 \times 7.5$ .                   | 70.125 lbs/cu.ft. |

You would therefore use the column on the Spread Chart headed 70 to determine the proper gate opening for the desired application rate.

## SPREAD ADJUSTMENT AND APPLICATION RATES, continued

Your MOBILITY SPREADER with its heavy-duty distributor discs and blades, will apply most materials in a 50 foot wide swath.

After determining the weight of the material in pounds per cubic foot, select the largest gate opening possible for the desired rate of application. This will allow all parts of the spreader to operate with minimum stress. Also operate your spreader in the low range if at all possible. There are two (2) ground drive spreading ranges provided on the standard machine. They are;

**LOW RANGE:** Drive chain on 12 and 48 tooth sprockets.

**HIGH RANGE:** Drive chain on 24 and 32 tooth sprockets.

See Spread Chart 1.

A special Low Speed Option provides a different dual sprocket arrangement for the Ground Drive. In this case the sprockets are arranged as follows;

**LOW RANGE:** Drive chain on 12 and 72 tooth sprockets.

**HIGH RANGE:** Drive chain on 24 and 48 tooth sprockets.

A special Spread Chart is required when this option is used. See Spread chart 2.

### CAUTION

Do not operate your spreader with less than one (1) inch of metering gate opening as material will compact against metering gate and cause failure of the conveyor chain.

**SPREAD CHART 1**

**APPROXIMATE**  
**50 FT SPREAD**

**LOW RANGE**

12 TO 48 T.

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT					
	40	50	60	70	80	90
1	66	83	99	116	132	149
1 1/2	99	124	149	173	198	223
2	132	165	198	231	264	297
2 1/2	165	206	248	289	330	371
3	198	248	297	347	396	446
3 1/2	231	289	347	404	462	520
4	264	330	396	462	528	594
4 1/2	297	371	446	520	594	668
5	330	413	495	578	660	743

**HIGH RANGE**

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT					
	40	50	60	70	80	90
1	198	248	297	347	396	446
1 1/2	297	371	446	520	594	668
2	396	495	594	693	792	891
2 1/2	495	619	743	866	990	1114
3	594	743	891	1040	1188	1337
3 1/2	693	866	1040	1213	1386	1559
4	792	990	1188	1386	1584	1782
4 1/2	891	1114	1337	1559	1782	2005
5	990	1238	1485	1733	1980	2228

**SPREAD CHART 2**

**APPROXIMATE**  
**50 FT. SPREAD**

**LOW RANGE**

12 TO 72 T

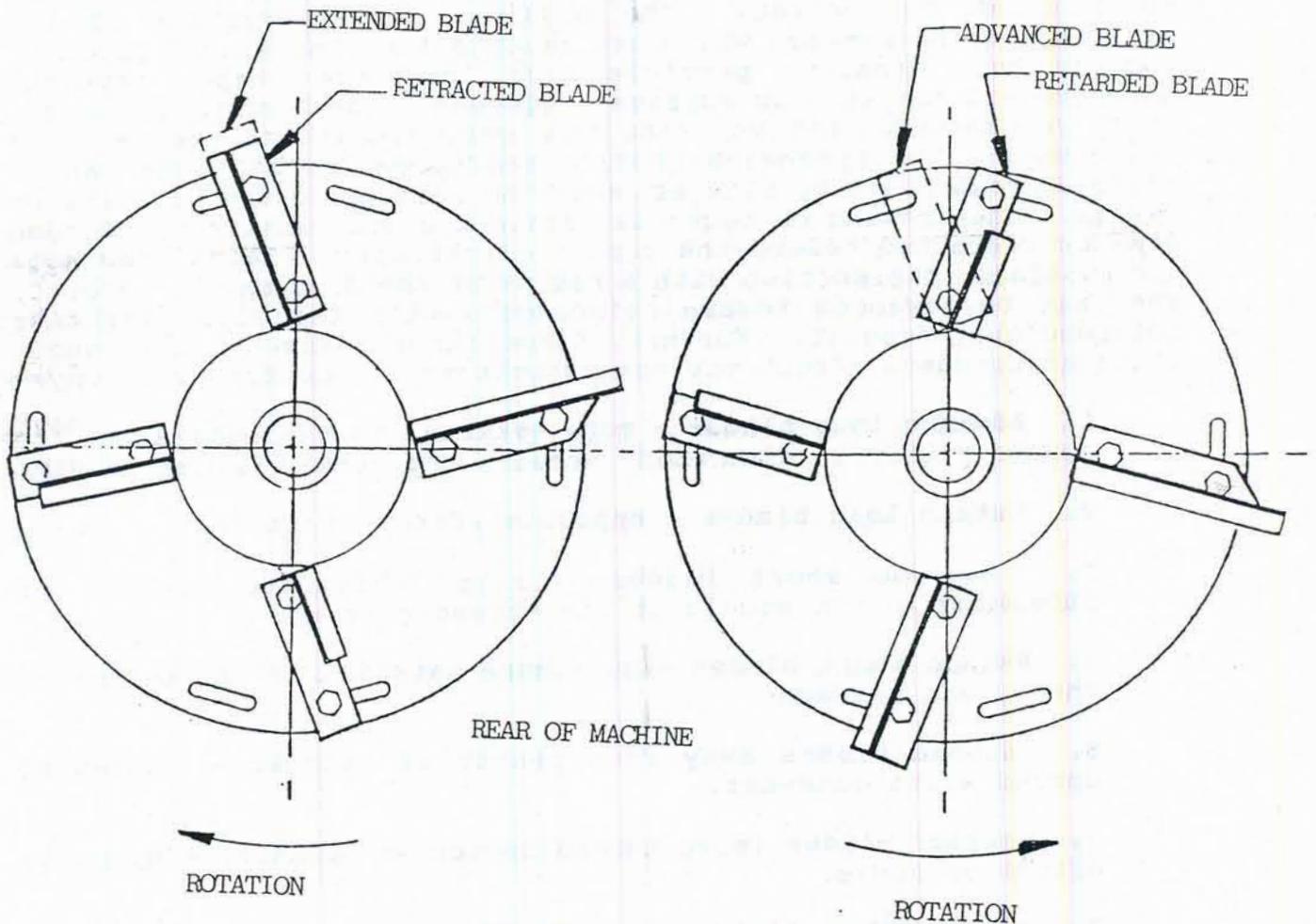
GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT					
	40	50	60	70	80	90
1	44	55	66	77	88	99
1 1/2	66	82	99	116	132	148
2	88	110	132	154	176	198
2 1/2	110	137	165	192	220	248
3	132	165	198	231	265	297
3 1/2	154	192	231	270	308	347
4	176	220	264	308	352	396
4 1/2	198	248	297	347	395	446
5	220	275	330	385	440	495

**HIGH RANGE**

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT					
	40	50	60	70	80	90
1	132	165	198	232	264	297
1 1/2	198	248	297	348	396	446
2	264	330	396	464	528	594
2 1/2	330	412	495	580	660	743
3	396	496	594	696	792	892
3 1/2	462	577	693	812	824	1040
4	528	660	792	928	1056	1188
4 1/2	594	743	891	1044	1186	1338
5	660	825	990	1160	1320	1485

FINE TUNING OF DISTRIBUTOR AND BLADE SETTING

All MOBILITY spreaders are given an average standard factory setting of distributor blades. Such a setting, of course, can not be perfect for all field conditions and materials. The following information will be helpful in adjusting the distributor blades on your machine to give optimum performance for your specific conditions.



FINE TUNING OF DISTRIBUTOR AND BLADE SETTING, continued

Your spread pattern will be affected by;

1. The material used
2. The distributor blade setting
3. The rotation speed of the distributors

The distributors are designed to be operated at 650 rpm (540 tractor PTO rpm). A plus or minus 10% change in distributor rpm will increase or decrease spread pattern width accordingly. An increase in PTO rpm will tend to deposit less material at the center of the spread pattern, while a decrease will deposit more material at the center. The physical characteristics of the materials being spread, which are important to the spread pattern, include bulk density, particle size, particle shape, physical strength and rugosity or surface roughness. For best performance, it is recommended that you fine tune your machine to the material being used. The spreading profile and spread swath width can be changed drastically by alteration of the setting of the distributor blades. The drawing on page 19 shows how blades may be extended from or retracted toward the center of the disc. Also, the angle of the blade intersection with a radius of the disc may be altered. They may be advanced toward coincidence with the disc radius or retarded away from it. Further, blade lengths are not all equal. These adjustments affect the spread pattern in the following ways;

1. **Advance long blades** - more material to the **outside** of the spread pattern, also will increase the spread pattern width.
2. **Retard long blades** - opposite effect of above.
3. **Advance short blades** - helps eliminate problem of **streaking** in the middle of the spread pattern.
4. **Retard short blades** - puts more material in the **center** of the spread pattern.
5. **Extend blades away** from center of spinner - **increases** spread width somewhat.
6. **Retract blades** (move toward center of spinner) - **opposite** effect of above.
7. **Moving flow divider** (or chute) toward the **front** of the spreader will tend to put **more material** in the **center** of the spread pattern. This is because material is deposited on the outer edge of the spinner causing it to leave earlier.
8. **Moving divider** toward the **rear** of the spreader has the **opposite** effect.

## FINE TUNING OF DISTRIBUTOR AND BLADE SETTING, continued

An operational characteristic of this type of machine is the possibility of overloading the distributors at high rates of application. Such an overload results in an alteration of the spread pattern to a narrower swath with heavier application at the center. This can be avoided by reducing speed when using high application rates.

**MOBILITY DISTRIBUTORS ARE DESIGNED FOR A MAXIMUM APPLICATION RATE OF 1500 POUNDS PER MINUTE OF AVERAGE 60 POUND PER CUBIC FOOT MATERIAL.**

### CAUTION

**Be extra careful to check your spread pattern when using high application rates.**

Adjust your driving pattern to the actual delivered spread swath, the adjustment of the machine, and the material being used.

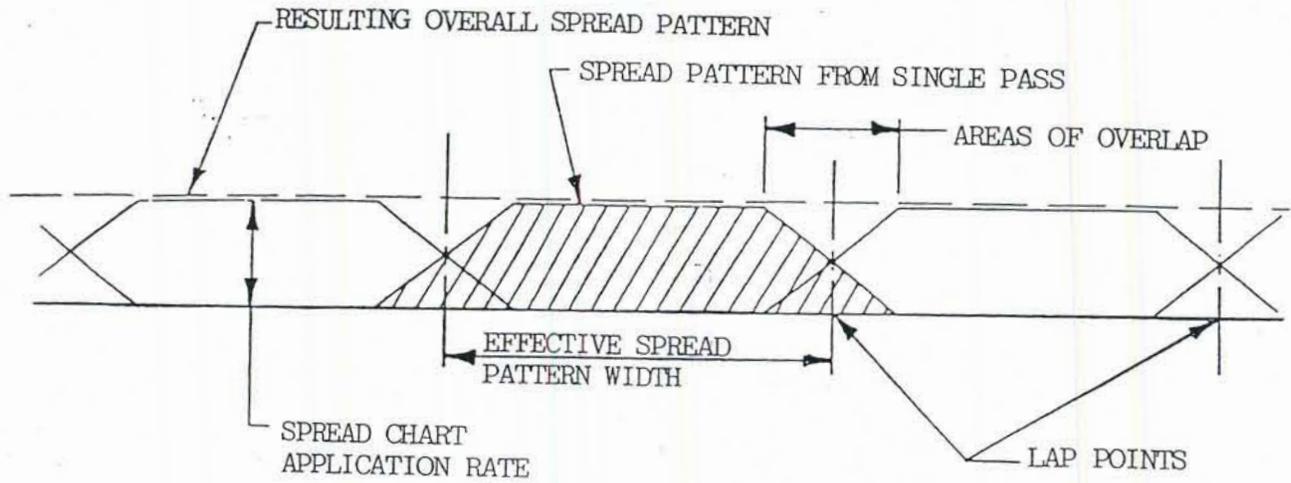
**Recommended ground or travel speed** for most application rates (up to 700 pounds per acre) is 8 mph. When application rates are in excess of 700 pounds per acre, the ground speed should be proportionately reduced, (for example, at 1400 pounds per acre, maximum ground speed should be 4 mph). We recommend that for very high application rates, to insure uniformity of application, that two lighter application passes be made, preferably placing your second pass over the lap lines of the first pass. This also is recommended practice when spreading under very windy conditions or with a material that segregates easily.

If your effective spread pattern is more than 50 feet wide, the Metering Gate setting should be increased proportionately, according to the percentage of your spread width in excess of 50 feet. The gate setting should likewise be decreased if your effective spread pattern is less than 50 feet. (for example, 60 foot effective spread width - increase gate setting from Spread Chart by 20%, 40 foot effective spread pattern width - decrease your gate setting from Spread Chart setting by 20%. Your spread pattern can be checked accurately and visually on a freshly worked, level area of ground. Such an area is also ideally suited to adjusting and fine tuning your machine. The following diagram graphically illustrates a typical spread pattern.

**Note** on the following illustration that the lap point occurs at the point where the application rate is one-half of the spread chart rate. The profile of the spread pattern tapers at both edges and has a wide uniform area in the center. By careful attention to the lap point during application a very uniform and even spread rate can be attained. The MOBILITY spreaders have been designed to

FINE TUNING OF DISTRIBUTOR AND BLADE SETTINGS, continued

provide this good and uniform tapered profile to make spread width less critical.



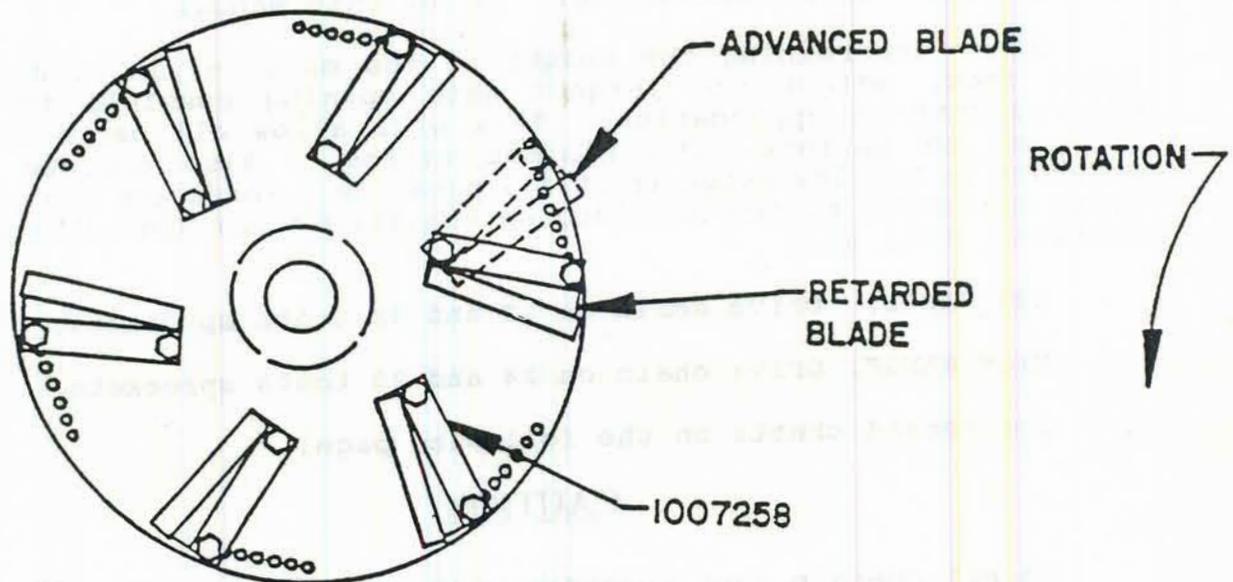
**SPREAD PATTERN**

However, excessive or insufficient overlap of passes will result in a poor application pattern in the lap area of the total spread pattern. If you can attain this spread pattern and pay careful attention to the lap points, the dotted line on the illustration will represent your actual overall spread pattern.

## SINGLE SPINNER

**SINGLE SPINNER:** The following adjustments will affect your spread pattern as follows;

1. Advance blades - more material to the right-hand side of the spread pattern.
2. Retard blades - opposite effect of above.
3. Moving the flow divider (or chute) toward the front of the spreader - more material to the right-hand side and center of the spread pattern.
4. Moving the flow divider (or chute) toward the rear has the opposite effect.



The results of such adjustments are only as accurate as the conditions of the test. Make sure the following have been considered and adjusted for or eliminated.

1. The spreader should be in good operable condition.
2. Make sure the ground drive tire is not slipping and the conveyor chain is adjusted to its proper tension.
3. Clean the spinner discs, adjustable chute and the conveyor floor.
4. Replace any worn or bent blades on the spinner discs.

The check should be made in calm and dry conditions. If a wind exists, make the test passes into the wind. Your spread pattern width can be varied by the rotation speed of the spinners. The single spinner is designed to operate at 765 RPM (540 tractor pto RPM). A plus or minus 10% change in spinner RPM will increase or decrease the spread width accordingly. Increasing single spinner PTO RPM will tend to deposit more material on the right hand side of the spread pattern, while a decrease will deposit more material on the left hand side of the spread pattern.

# ALL GROUND DRIVE HYDRAULIC OPTION

## SPREAD ADJUSTMENT, APPLICATION RATES SPREAD CHARTS

For accurate and precise spreading rates, it is necessary that you know the weight in pounds per cubic foot of the material to be spread. If this is not known, the weight can be quickly determined by the method described on page 15 of this manual.

After determining the weight of the material in pounds per cubic foot, select the largest gate opening possible for the desired rate of application. This will allow all parts of the spreader to operate with minimum stress. Also operate your spreader in the low range if at all possible. There are two ground drive spreading ranges provided on the All Ground Hydraulic Drive machine. They are:

**LOW RANGE;** Drive chain on 12 and 32 tooth sprockets.

**HIGH RANGE;** Drive chain on 24 and 20 tooth sprockets.

See spread charts on the following page.

### CAUTION

Do not operate your spreader with less than (1) one inch of metering gate opening as material will compact against metering gate and cause failure of the conveyor chain.

### FINE TUNING OF DISTRIBUTOR AND BLADE SETTING

Refer to the section of this manual covering standard machines starting at page 19.

**SPREAD CHART**  
**ALL GROUND DRIVE HYDRAULIC SPREADER**

**APPROXIMATE  
50 FOOT SPREAD  
LOW RANGE**

12 TO 72 T

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT					
	40	50	60	70	80	90
1	44	55	66	77	88	99
1 1/2	66	82	99	116	132	148
2	88	110	132	154	176	198
2 1/2	110	137	165	192	220	248
3	132	165	198	231	265	297
3 1/2	154	192	231	270	308	347
4	176	220	264	308	352	396
4 1/2	198	248	297	347	395	446
5	220	275	330	385	440	495

**HIGH RANGE**

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT					
	40	50	60	70	80	90
1	132	165	198	232	264	297
1 1/2	198	248	297	348	396	446
2	264	330	396	464	528	594
2 1/2	330	412	495	580	660	743
3	396	496	594	696	792	892
3 1/2	462	577	693	812	824	1040
4	528	660	792	928	1056	1188
4 1/2	594	743	891	1044	1186	1338
5	660	825	990	1160	1320	1485

## SPECIAL INSTRUCTIONS, MAINTENANCE PROCEDURES AND TROUBLE SHOOTING

### SPECIAL INSTRUCTIONS

To check the hydraulic fluid level, clean the area around the filler cap, remove the cap and check the fluid visually. Fluid should be approximately one (1) inch from the top of the tank.

Three (3) gallons, automatic transmission fluid, Dextron III

The hydraulic filter is 25 micron, mounted below the oil reservoir and the rear of the walk beam and should be replaced once a year.

Drive Tank; Lubricating oil, (2) two gallons, SAE 30. This oil lubricates only the drive mechanism.

Drive Axle Bearings; The drive axle bearings are packed at the factory and should be repacked yearly.

To engage the clutch, pull the handle straight out and turn clockwise until the pin is over the 'LIVE' hole. Allow the spring to pull the pin into the hole and release the handle. Move the spreader forward slowly approximately two feet to allow the pin to engage the axle and the conveyor starts to move. This indicates that the clutch is engaged.

Accelerate to a spreading speed in excess of 3 1/2 mph but do not exceed 15 mph.

### WARNING

EXCESS SPEED WILL DAMAGE THE DRIVE SYSTEM AND  
VOID THE WARRANTY.

## SPECIAL INSTRUCTIONS, continued

At 3 1/2 mph, the spinners will have full rotational speed of 650 rpm for dual spinners and 765 rpm for single spinners, and will remain constant up to 15 mph. Speed above 15 mph will over-speed the hydraulic pump causing it to burn up.

**A PUMP THAT SHOWS SIGNS OF OVER-SPEED WILL NOT BE COVERED BY WARRANTY.**

To disengage the clutch, pull the handle straight out and turn counter-clockwise until the pin is over the 'DEAD' hole. Allow the spring to pull the pin into the hole and release the handle. **DO NOT BACK UP THE SPREADER WITH THE CLUTCH ENGAGED.**

### WARNING

**BE SURE THE CLUTCH IS DISENGAGED AND LOCKED BEFORE TOWING THE SPREADER AT ROAD SPEEDS ABOVE 15 MPH.**

Spinner Speed; The spinner speed adjust knob is located at the top rear of the drive compartment. The calibration numbers on the knob are only indicators and not precise calibration numbers. The approximate setting is 1/2 turn plus two numbers open, (turn counter-clockwise). The spinner speed is preset at the factory, however, should you have the need to readjust the speed, never turn the knob more than one number at a time. EXAMPLE; Spread pattern is too narrow due to slow spinner speed. Turn the knob counter-clockwise one number and check the spread width. If it is still short, increase the speed one more number and recheck. If spinner speed does not correct the pattern, refer to the spinner blade adjust section of the manual.

### NOTE

**IF SPINNER SPEED IS COMPLETELY MISADJUSTED, TURN ADJUSTMENT KNOB IN COMPLETELY, CLOCKWISE. THEN TURN KNOB OUT, COUNTER-CLOCKWISE 1/2 TURN PLUS TWO MARKS AND ADJUST FROM THERE.**

## MAINTENANCE PROCEDURES

**ANNUALLY:** Remove the hydraulic filter element and allow the hydraulic reservoir to drain. Install a new filter element and refill the reservoir with fresh, clean, hydraulic fluid. With the fill plug removed, bleed the air from the system. When all the air is purged from the system, replace the bleed plug and the fill plug.

Remove the top cover, and check the chain and sprocket condition. Replace worn parts, retension the drive chains and check drive sprocket alignment.

MAINTENANCE PROCEDURES, continued

Drain lube oil from the drive compartment, check the hydraulic hoses. Replace any worn or frayed hose and check all fittings for tightness.

Check and adjust the preload on the axle bearings. Operate and check the clutch for complete engagement and disengagement, adjust if necessary.

Clean the drive compartment and refill with (2) two gallons of fresh lubricating oil. Recaulk the gasket surface and reinstall the top cover.

**WEEKLY:** Clean filler cap area, remove cap and check the fluid level visually. The level should be to within (1) one inch of the top of the tank. Replace fluid as necessary.

Grease the drive axle bearings.

Grease the conveyor drive bearings.

**DAILY:** Visually inspect the hydraulic hoses and fittings for leaks or fraying. Tighten or replace as necessary.

It is very important to keep the chain tightener in proper working condition. A minimum of two (2) inches of travel in both directions and a 1/2" to 3/4" clearance between the hydraulic box and the idler block are necessary.

It is also important that the spring has enough tension to keep the tightener working properly. Replace the spring as necessary. Failure to do so may result in damage to the drive and the driven shafts.

With proper maintenance and a clean environment, the hydraulic drive should provide many years of trouble-free operation.



## BOLT TORQUE



**Important:** Over tightening hardware can cause as much damage as when under tightening. Tightening hardware beyond the recommended range can reduce its shock load capacity.

The chart below is a guide for proper torque. Use it unless a specified torque is called out elsewhere in the manual.

Torque is the force you apply to the wrench handle or the cheater bar, times the length of the handle or bar.

Use a torque wrench whenever possible.

The following table shows torque in ft. lbs. for coarse thread hardware.

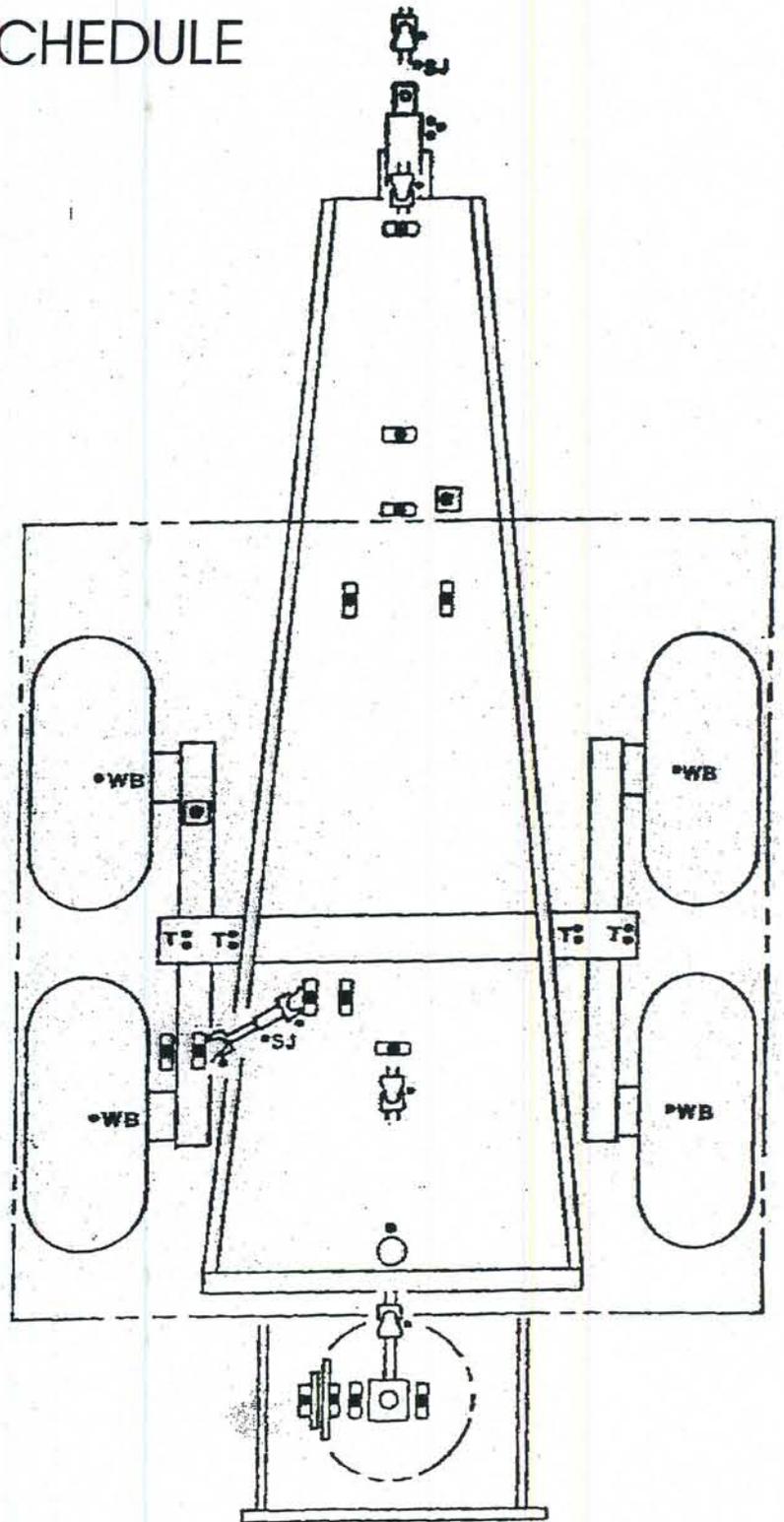
BOLT DIA. AND THREADS PER INCH	 GRADE 2	 GRADE 5	OR  A-325	 GRADE 8
1/4	6		10	14
5/16	12		20	30
3/8 - 16	25		35	50
7/16 - 14	35		55	80
1/2 - 13	55		85	125
9/16 - 12	75		125	175
5/8 - 11	105		170	235
3/4 - 10	185		305	425
7/8 - 9	170		445	690
1-8	260		670	1030
1 1/8 - 7	365		900	1460
1 1/4 - 7	515		1275	2060
1 3/8 - 6	675		1675	2700
1 1/2 - 6	900		2150	3500
1 3/4 - 5	1410		3500	5600

Lubricate all bearings and moving parts as assembled and make certain that they work freely.



**WARNING:** Never work around the toolbar/implement while in a raised position without using safety lockups.

# LUBRICATION SCHEDULE



## LUBRICATION SCHEDULE

- |   |                                 |   |  |
|---|---------------------------------|---|--|
|  | UNIVERSAL JOINT (Every 15 Hrs.) |  | ACTUATOR (Every 15 Hrs.)                 |
|  | BALL BEARING (Every 15 Hrs.)    |   | SPROCKET AND SPINNER HUB (Every 15 Hrs.) |
|  | GATE JACK (OIL) (Weekly)        |  | TRUNION (Every 10 Hrs.)                  |
|  | WHEEL BEARINGS (Twice A Year)   |  | SLIP JOINT (Daily)                       |
|  | PIVOT BUSHING (Every 10 Hrs.)   |   | GEAR BOX (Every 75 Hrs.)                 |

## TROUBLE SHOOTING

SYMPTOM	PROBABLE CAUSE	REMEDY
Conveyor chain runs but spinners do not.	1. Pump is air locked.	1. Bleed pump.
	2. Hydraulic pump drive chain off or broken.	2. Replace or repair.
	3. Hydraulic pump shelled.	3. Replace hydraulic pump.
	4. Open or broken hydraulic line.	4. Retighten fittings or replace line if ruptured.
	5. Drive chain loose or broken.	5. Retighten or repair as needed.
Conveyor chain runs erratically, not getting proper application rate.	1. Main drive chain skipping and not driving conveyor drive output shaft.	1. Remove cover and re-tension main drive chain by tighten the idler sprocket.
		2. Check external drive chains and sprockets for condition and chain tension also.
Clutch lever is engaged, but nothing happens.	2. Clutch dogs sheared off.	2. Replace clutch dog.
	3. Main drive chain too loose or broken.	3. Re-tension or replace, check alignment.
Spread pattern too narrow.	1. Spinner rpm too low.	1. To increase spinner rpm, turn adjustment knob counter-clockwise no more than 1 mark at a time. Recheck for spread pattern width, if still short, repeat the above procedure.
	2. Improper adjustment of spinner blades.	2. See blade adjustment section of manual.
Spinners revolve slowly in cold weather.	1. Plugged filter element.	1. Replace the filter element.
	2. Hydraulic fluid too thick to flow, due to moderately cold temperatures.	2. Remove the conveyor 2 speed drive chain, engage the drive clutch and pull the spreader slowly for a short period of time to allow the hydraulic fluid to circulate and warm up to operating temperature.

<p>Spinners revolve slowly in cold weather. continued.</p>	<p>3. Hydraulic fluid too thick to flow due to extreme cold temperature.</p>	<p>3. Drain one gallon of hydraulic fluid and add one gallon of diesel fuel. Prior to spring start-up, replace the diluted hydraulic fluid with clean, fresh, undiluted fluid.</p>
--	--	--

**NOTE**

**COLD WEATHER INSTRUCTIONS**

40 DEG. & BELOW

**MIX HYDRAULIC FLUID  
WITH #2 FUEL OIL**

**RATIO: 1 TO 1**

## PARTS ORDERING PROCEDURE

When replacement parts are required, consult the applicable illustration and parts list to obtain the correct part name and number.

When requesting a replacement part, always include the following information:

1. Complete part number.
2. Part name.
3. Quantity required.
4. Machine and model number.
5. Machine serial number - located on the top side of the frame near the hitch.
6. Provide complete name and address for where and how parts are to be shipped.

### NOTE

Right and left hand parts and sides of the units are determined by standing at the rear and facing in the direction of forward travel.

**ILLUSTRATED  
PARTS  
LIST**

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
-----------------------------	----------------	-------------	-----------------------

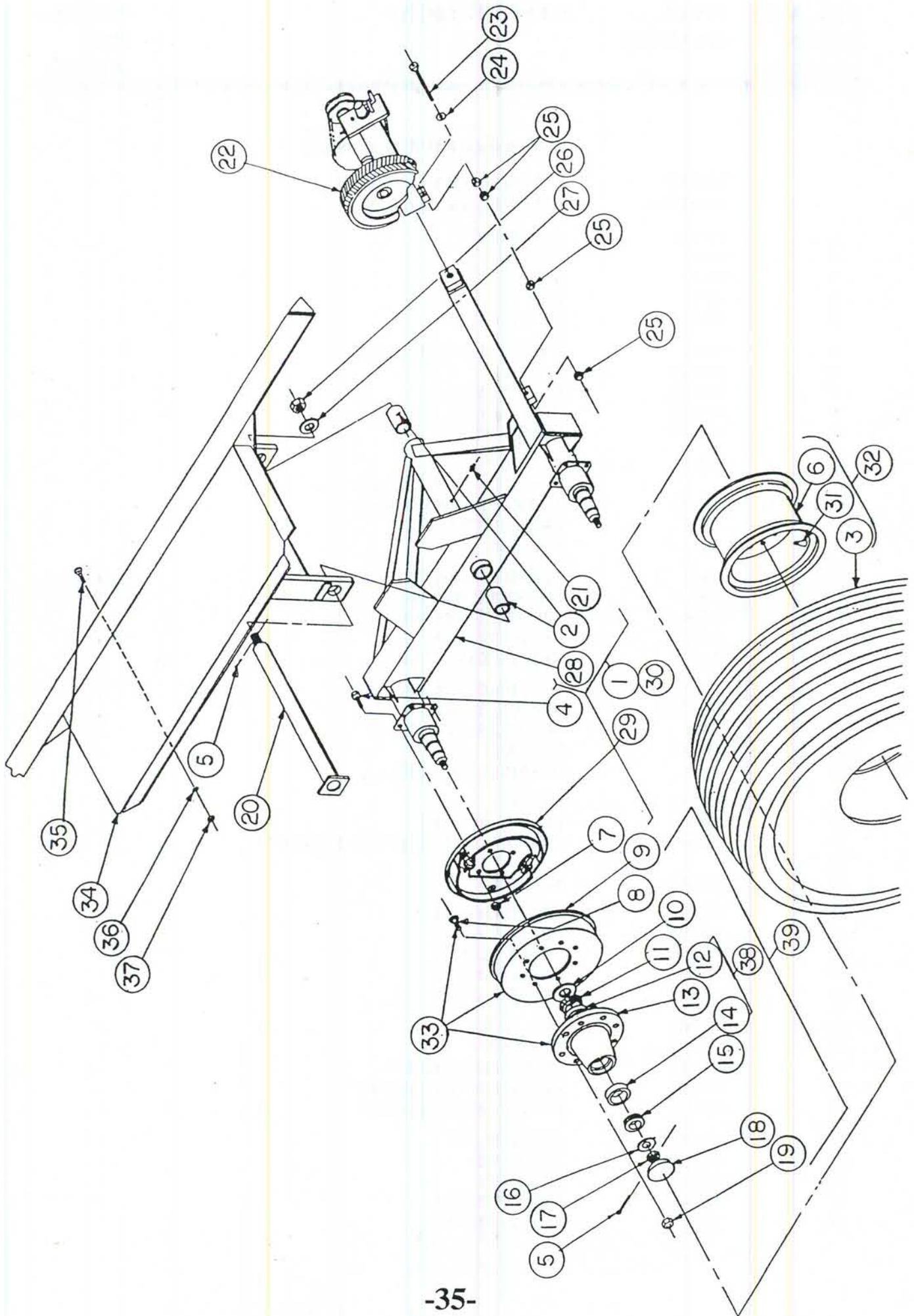
WALK BEAM & WHEEL AREA

1	1004514	WALK BEAM ASSEMBLY	1
2	1000514	BUSHING	4
3	90999	TIRE, 19L X 16.1, (900)	4
	1001942	TIRE, 16.5 X 16.1, (600-650)	4
4	1000867	FLANGE BOLT, BRAKE	16
5	1000817	COTTER PIN, 5/32 X 1 3/4	6
6	1000588	WHEEL	4
7	1000855	FLANGE NUT, BRAKE	16
8	1000532	WHEEL BOLT	32
9	1000550	DRUM	4
10	1002200	SEAL, HUB	4
11	1002198	ROLLER BRG, INNER HUB	4
12	1002196	RACE, INNER, HUB	4
13	1002190	HUB	4
14	1002197	RACE, OUTER, HUB	4
15	1002199	ROLLER BRG, OUTER HUB	4
16	1000883	WASHER, FLAT, 7/8	4
17	1000884	NUT, HEX, 7/8-14, SLOT	4
18	1000885	DUST CAP, HUB	4
19	1000533	NUT, WHEEL	32
20	1000711	PIVOT SHAFT ASSEMBLY	2
21	152915	LUBE FITTING	2
22	1004318	GROUND DRIVE ASSEMBLY	1
23	1000665	ROD ASSEMBLY, TAKE-UP	1
24	1010025	WASHER, FLAT, 1/2	1
25	1000813	NUT, HEX, 1/2-13	4
26	1000818	NUT, HEX, 1-14, SLOT	2
27	1000819	WASHER, FLAT, 1"	2
28	1001808	WALK BEAM, LH	1
	1000707	WALK BEAM, RH	1
29	1000516	BRAKE ASSEMBLY, RH	2
	1000517	BRAKE ASSEMBLY, LH	2
30	1004513	WALK BEAM ASSEMBLY	1
31	1001970	VALVE STEM	4
32	1001971	WHEEL & TIRE ASSY, (900)	4
	1001972	WHEEL & TIRE ASSY, (600-650)	4
33	1002202	DRUM, STUD, HUB ASSEMBLY	4
34	1004191	FENDER WELDMENT	2
35	1002008	CARR BOLT, 3/8-16 X 1 1/4	8
36	1000810	WASHER, LOCK, 3/8	8
37	1000809	NUT, HEX, 3/8-16	8
38	1002191	HUB SUB-ASSEMBLY	4

## WALK BEAM ASSEMBLY, continued

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
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39	1002194	HUB ASSEMBLY	4
	1002189	SPINDLE	1
<u>FOR 6 TON PRIOR TO 1979</u>			
1	1004527	WALK BEAM ASSEMBLY, LH	1
2	1000514	BUSHING	4
3	1001942	TIRE, 16.5 X 16.1	4
4	1000867	FLANGE BOLT, BRAKE	8
5	1000817	COTTER PIN, 5/32 X 1 3/4	6
6	1000588	WHEEL	4
7	1000855	FLANGE NUT, BRAKE	8
8	1000532	WHEEL BOLT	32
9	1000550	DRUM	2
10	1000877	SEAL, HUB	4
11	1000878	ROLLER, BRG, INNER HUB	4
12	1000879	RACE, INNER, HUB	4
13	1000880	HUB	4
14	1000881	RACE, OUTER, HUB	4
15	1000882	ROLLER BRG, OUTER HUB	4
16	1000883	WASHER, FLAT, 7/8	4
17	1000884	NUT, HEX, 7/8-14, SLOT	4
18	1000885	DUST CAP, HUB	4
19	1000533	WHEEL NUT	32
20	1000711	PIVOT SHAFT ASSEMBLY	2
21	152915	LUBE FITTING	2
22	1004318	GROUND DRIVE ASSEMBLY	1
23	1000665	ROD ASSEMBLY, TAKE-UP	1
24	1010025	WASHER, FLAT, 1/2	1
25	1000813	NUT, HEX, 1/2-13	4
26	1000818	NUT, HEX, 1-14, SLOT	2
27	1000819	WASHER, FLAT, 1"	2
28	1002423	WALK BEAM, LH	1
	1002424	WALK BEAM, RH	1
	1000713	SPINDLE	1



WALK BEAM AND WHEEL AREA

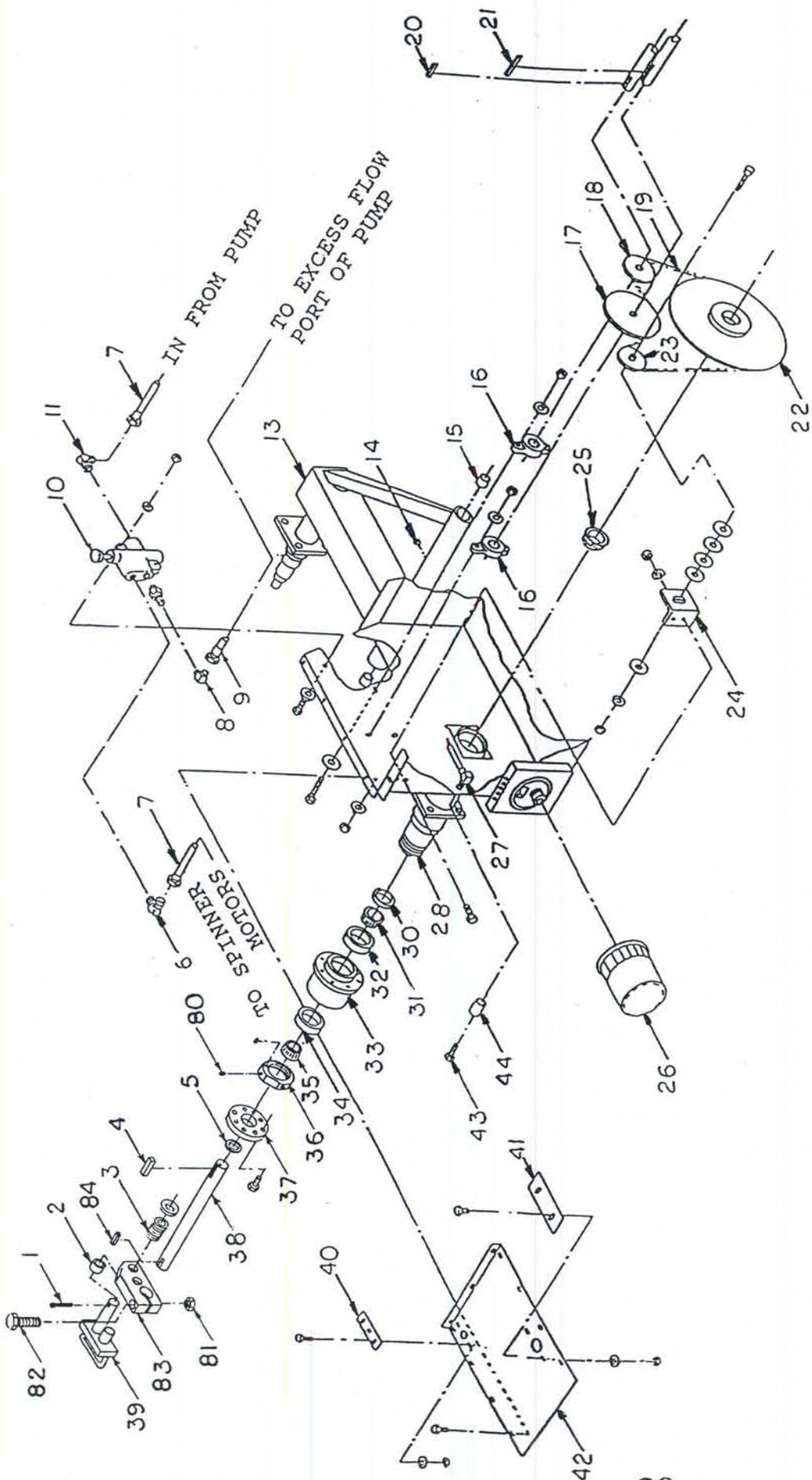
FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
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600 - 900 AGHD WALK BEAM

	1009900	4 WHEEL BRAKE - 900	
	1009900-1	2 WHEEL BRAKE - 600	
1	137258	COTTER PIN	1
2	92652	BUSHING	1
3	90479	SPRING	1
4	92215	KEY	1
5	1011467	BEARING	1
6	90964	HYD FITTING, 2501-90-8-8	1
7	1009045	HOSE	2
8	1008783	HYD FITTING	1
9	1009095	HOSE, 21 1/2"	1
10	1008733	FLOW DIVIDER	1
11	90964	HYD FITTING	3
12		PLASTIC TIE, NOT SHOWN	1
13	1009898	WALK BEAM WELDMENT	1
14	F4252	GREASE ZERK	1
15	1000514	BUSHING	1
16	91140	BEARING, 2 BOLT	4
17	640011	SPROCKET, 50B, 36T	1
18	93703	SPROCKET, 50B, 16T	1
19	1009198	CHAIN, 50B, 60P	1
20	93461	KEY, 1/4 X 1/4 X 1 1/4	3
21	92215	KEY, 1/4 X 1/4 X 2 1/4	2
55	1009775	SPROCKET, 50B, 60T	1
23	90304	SPROCKET, 50B, 17T	1
24	1008970	BRACKET	1
25	93743	BEARING, 1 1/4 BORE	1
26	1009182	FILTER	1
27	F100715	ELBOW, 5/16 X 1/8	2
28	1009884	AXLE WELDMENT, (INC"D IN 1009898)	
29			
30	1009765	SEAL, OIL	1
31	1009764	BEARING CONE	1
32	1009763	BEARING CUP	1
33	1009849	WHEEL HUB	1
34	1009763	BEARING CUP	1
35	1009764	BEARING CONE	1
36	1012871	NUT, HUB	1
37	1009778	HUB CAP	1
* 38	1012915	CLUTCH LOCK SHAFT	1
* 39	1012919	CLUTCH PIN WELDMENT	1
40	1009176	FLOW CONTROL PLATE	1
41	1009899	COVER PLATE	1
42	1009144	TOP COVER	1
43	1008838	PIPE PLUG	1
44	93173	PIPE COUPLING	1
45	1009307	HOSE, 1.25 X 15	1

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
46	F101150	HOSE CLAMP, 1/4 - 5/8	2
47	1009484	HYD FITTING, 4601-NW90D-20-12	1
48	1008827	PLUG, 6408-12	1
49	1008645	PUMP JD	1
50	1009299	KEY, WOODRUFF, #9	1
51	91930	HYD FITTING, 6801-NWO-90-8-8	1
52	1008737	HYD FITTING	1
53	1008986	SHAFT, SPROCKET	1
54	12950	SHAFRT, DRIVE	1
55	1008832	PLUG, 3/4 NPT	1
56	1009199	CHAIN, 50B, 76P, 47/5"	1
57	92176	SPROCKET, 50B, 60T	1
58	1008979	FRONT COVER	1
59	1000505	SPROCKET, 40B, 24T	1
60	1000504	SPROCKET, 40B, 12T	1
61	1008833	HOSE	1
62	1009044	HOSE	1
63	91943	HYD FITTING, 2700-LN-STR-8-8	1
64	90293	SPROCKET, 50B, 16T	1
65	F101122	HOSE CLAMP (NOT SHOWN)	2
78	F100736	PLUG, 1/2 NPT	1
79	1009119	BLEEDER HOSE	1
80	1012872	SET SCREW	4
* 81	F16825	HEX NUT	1
* 82	F100416	HHCS, 1/2-13, GR 8	1
* 83	1012917	LOCK BLOCK, INCLUDES ITEM #2	1
* 84	NW35076	KEY	1
			4 BRAKE    2 BRAKE
66	1000517	BRAKE ASSY	2    1
67	1000550	BRAKE DRUM	2    1
68	1002200	SEAL	1    1
69	1002199	ROLLER BEARING	1    1
70	1002191	HUB ASSY	1    1
71	1002198	ROLLER BEARING	1    1
72	1000883	FLAT WASHER	1    1
73	1000884	HEX NUT, SLOTTED	1    1
74	1000885	HUB CAP	1    1
75	1000817	COTTER PIN	1    1
76	1000532	WHEEL BOLT	8    1
77	1000542	BRAKE LINE	2    1

\* NOTE: CLUTCH LOCK ASS'Y REDESIGN 12/98.



600 - 900 AGHD WALK BEAM

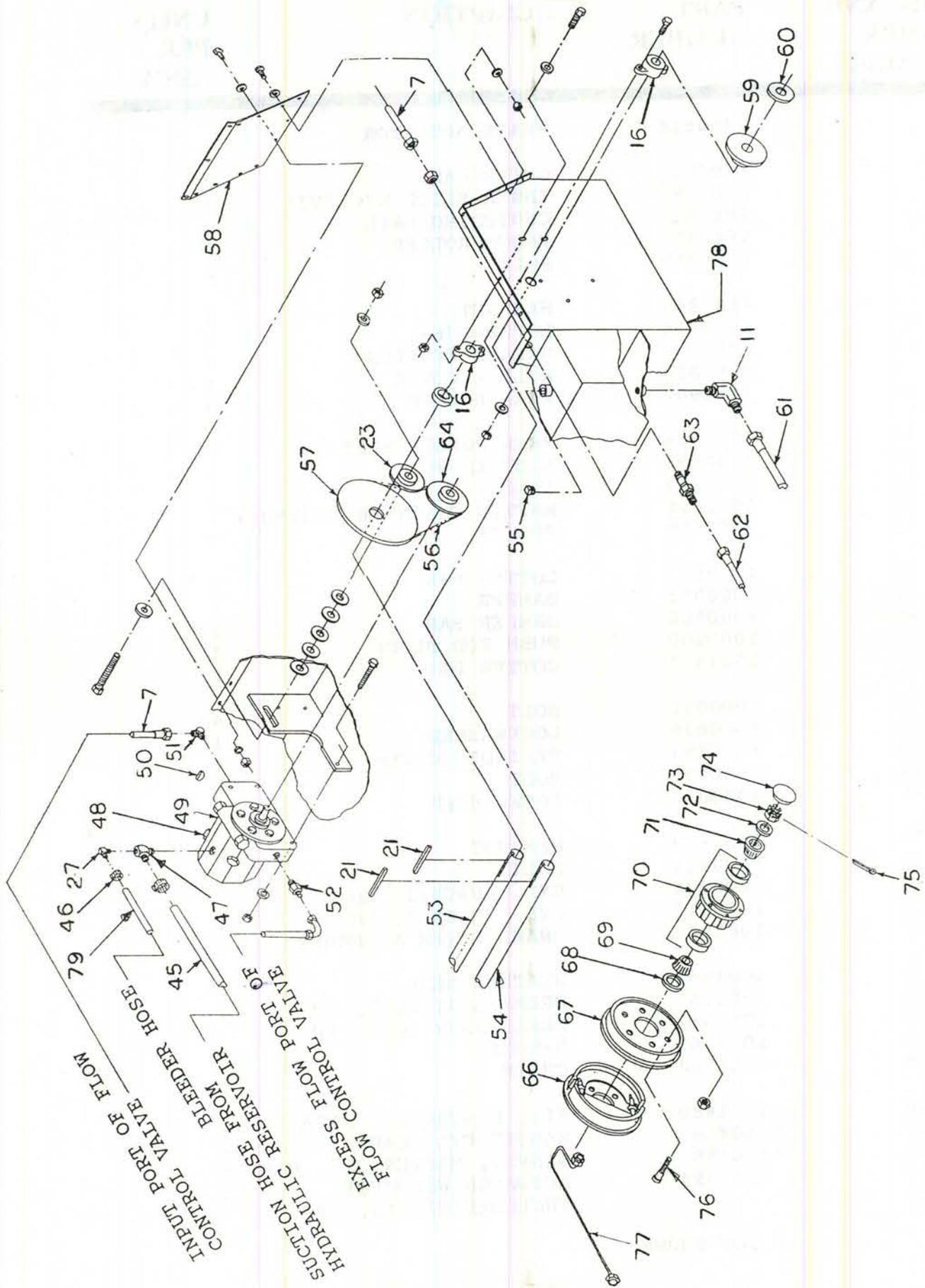
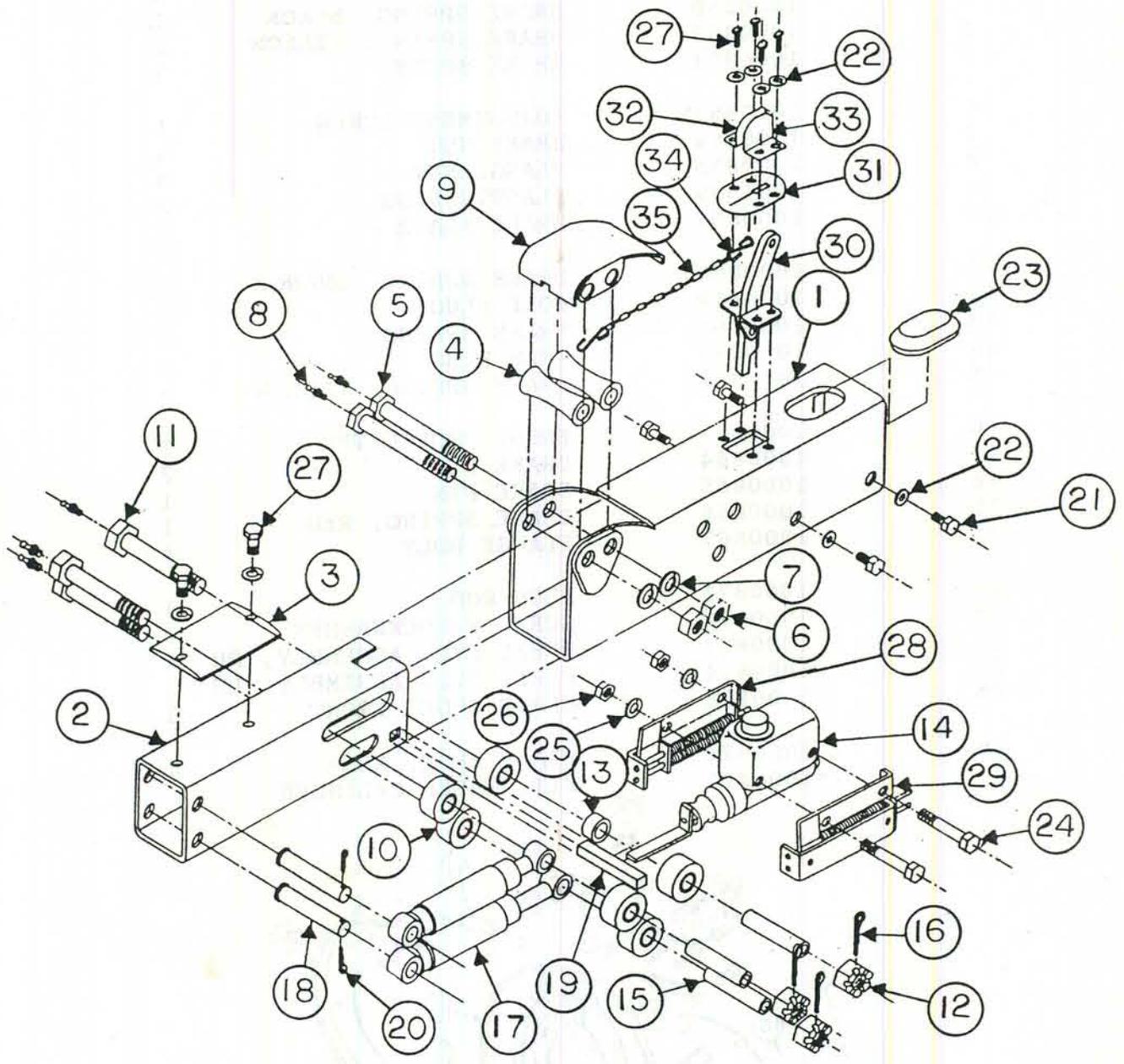


FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
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	1000515	BRAKE ACTUATOR	
1	1000979	OUTER CASE	1
2	1007995	INNER SLIDE W/CLEVIS	1
3	1000910	CENTERING RAIL	1
4	1000887	FRONT ROLLER	2
5	1000889	BOLT	2
6	1000813	HEX NUT	2
7	1000814	LOCKWASHER	2
8	90800	GREASE FITTING	5
9	1000886	ROLLER COVER	1
10	1000902	REAR ROLLER	6
11	1000909	REAR ROLLER BOLT	3
12	1000898	SLOTTED NUT	3
13	1000903	SPACER	1
14	1000895	MASTER CYLINDER ASSEMBLY	1
15	1000899	SPACER	3
16	151963	COTTER PIN	3
17	1000901	DAMPER	2
18	1000908	DAMPER BAR	2
19	1000900	PUSH ROD BLOCK	1
20	1001377	COTTER PIN	2
21	1000891	BOLT	4
22	1000836	LOCKWASHER	10
23	1000894	CYLINDER COVER	1
24	1000896	BOLT	2
25	1000810	LOCKWASHER	2
26	1000809	HEX NUT	2
27	1000911	BOLT	6
28	1000906	CYL. BRACKET, RH	1
29	1000912	CYL. BRACKET, LH	1
30	1001557	BRAKE LEVER ASSEMBLY	1
31	1001560	WEATHER SEAL	1
32	1001561	BREAK-AWAY LOCK, RH	1
33	1001562	BREAK-AWAY LOCK, LH	1
34	1001563	S-HOOK	2
35	1001564	CHAIN	1
36	*1001480	KIT, MASTER CYL REPAIR	1
37	*150459	MASTER CYL. CAP	1
38	*150458	GASKET, MASTER CYL. CAP	1
39	1007994	ACTUATOR WELDMENT	1
40		INCLUDES CLEVIS, ETC.	

\* NOT SHOWN



**BRAKE ACTUATOR**

FIG. AND  
INDEX  
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PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

	1000516	BRAKE ASSEMBLY, RH	
	1000517	BRAKE ASSEMBLY, LH	
1	1001558	LOCK WASHER, 1/2	4
2	1000849	BRAKE CUP	4
3	1000850	BRAKE SPRING, BLACK	1
4	1000852	BRAKE SPRING, YELLOW	1
5	1000851	BRAKE SOCKET	1
6	1000853	ADJUSTMENT SCREW	1
7	1000854	BRAKE NUT	1
8	1000855	FLANGE NUT	4
9	1001559	PLASTIC PLUG	2
10	1000857	BRAKE PLATE	1
11	1000858	BRAKE SPRING, ORANGE	1
12	1000859	HOLE PLUG	1
13	1000860	BRAKE SPRING	1
14	1000861	SNAP RING	1
15	1000862	BRAKE SPRING, YELLOW	1
16	1000863	FRONT SHOE LEVER	1
17	1000864	BRAKE PIN	2
18	1000865	BRAKE PIN	1
19	1000866	BRAKE SPRING, RED	1
20	1000867	FLANGE BOLT	4
21	1000871	PUSH ROD	1
22	1000872	SCREW W/LOCKWASHER	2
23	1000873	WHEEL CYL. ASSEMBLY, RH	1
24	1000874	WHEEL CYL. ASSEMBLY, LH	1
25	1000875	BRAKE SHOE, FRONT	1
26	1000876	BRAKE SHOE, REAR	1
	*1001477	KIT, WHEEL CYLINDER	

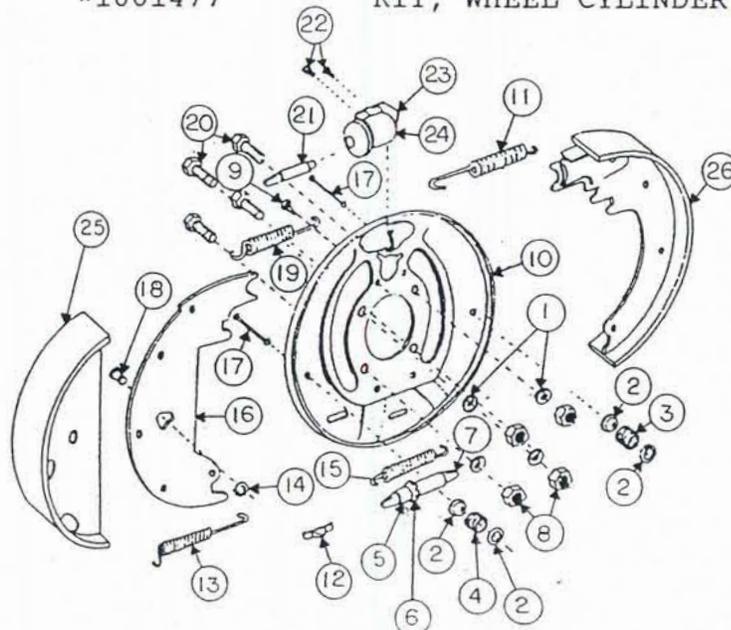


FIG. AND  
INDEX  
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PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

BRAKE SYSTEM, 600 & 650

1.	1000550	DRUM	2
2	1000517	BRAKE, LH	1
3	1000516	BRAKE, RH	1
4	1000515	ACTUATOR	1
5	1000751	GROMMET	1
6	1000545	HOSE CLIP	5
7	1000546	HOSE BRACKET	3
8	1001500	BRAKE LINE, 120"	1
9	1000543	FRAME TEE	1
10	1000542	BRAKE LINE, 37"	3
11	1002003	HYDRAULIC HOSE, 13", F/F	1
12	1001119	BRAKE LINE CLIP	5
13	1000539	BRAKE LINE, 17"	1
14	1000547	HYDRAULIC HOSE, 13", M/F	2

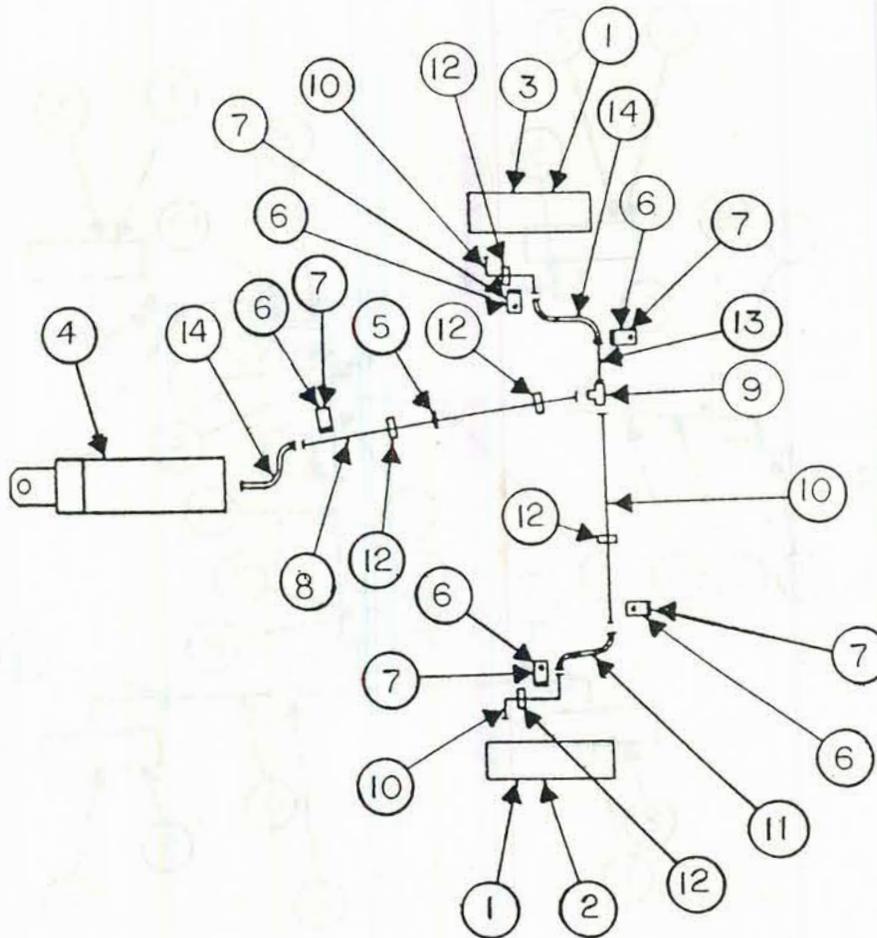


FIG. AND  
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PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

BRAKE SYSTEM, 900

1	1000550	DRUM	4
2	1000517	BRAKE, LH	2
3	1000516	BRAKE, RH	2
4	1000515	ACTUATOR	1
5	1001119	BRAKE LINE CLIP	8
6	1000751	GROMMET	1
7	1000545	HOSE CLIP	3
8	1000546	HOSE BRACKET	3
9	1001500	BRAKE LINE, 120"	1
10	1000543	FRAME TEE & CLIP	3
11	1000541	BRAKE LINE, 22"	2
12	1000547	HYDRAULIC HOSE, 13: M/F	3
13	1000539	BRAKE LINE, 17"	1
14	1000542	BRAKE LINE, 37"	3

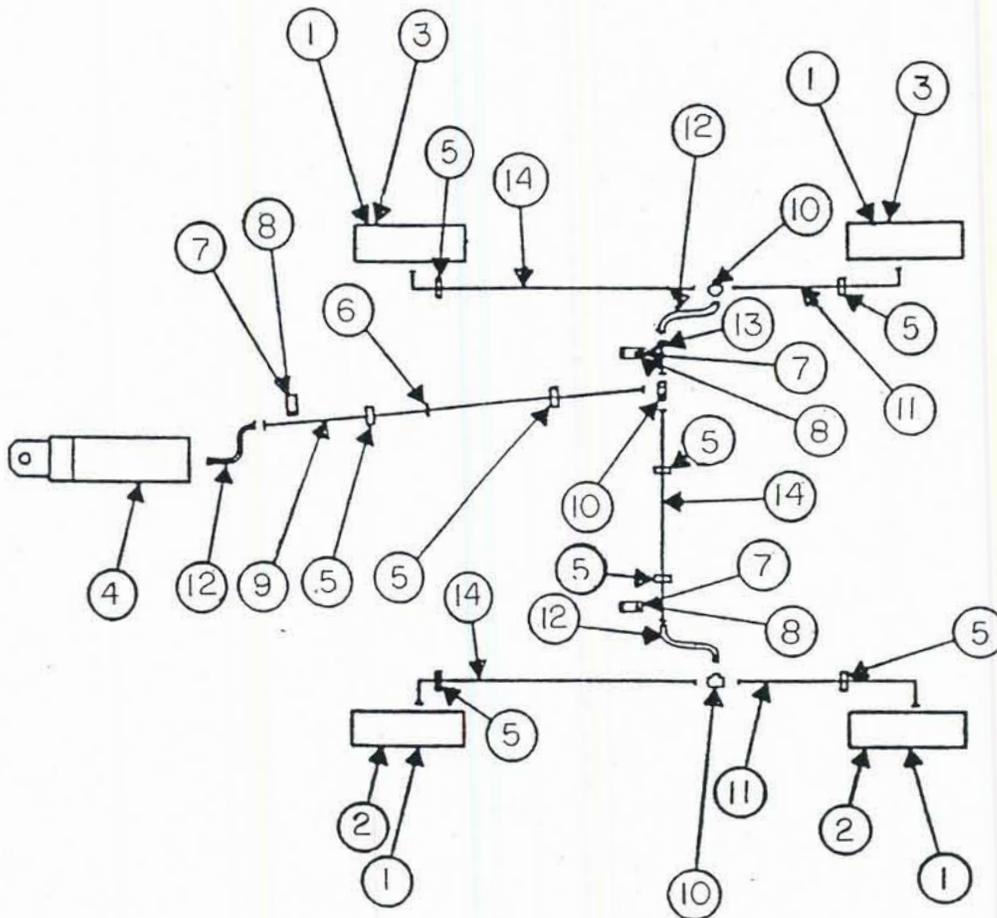
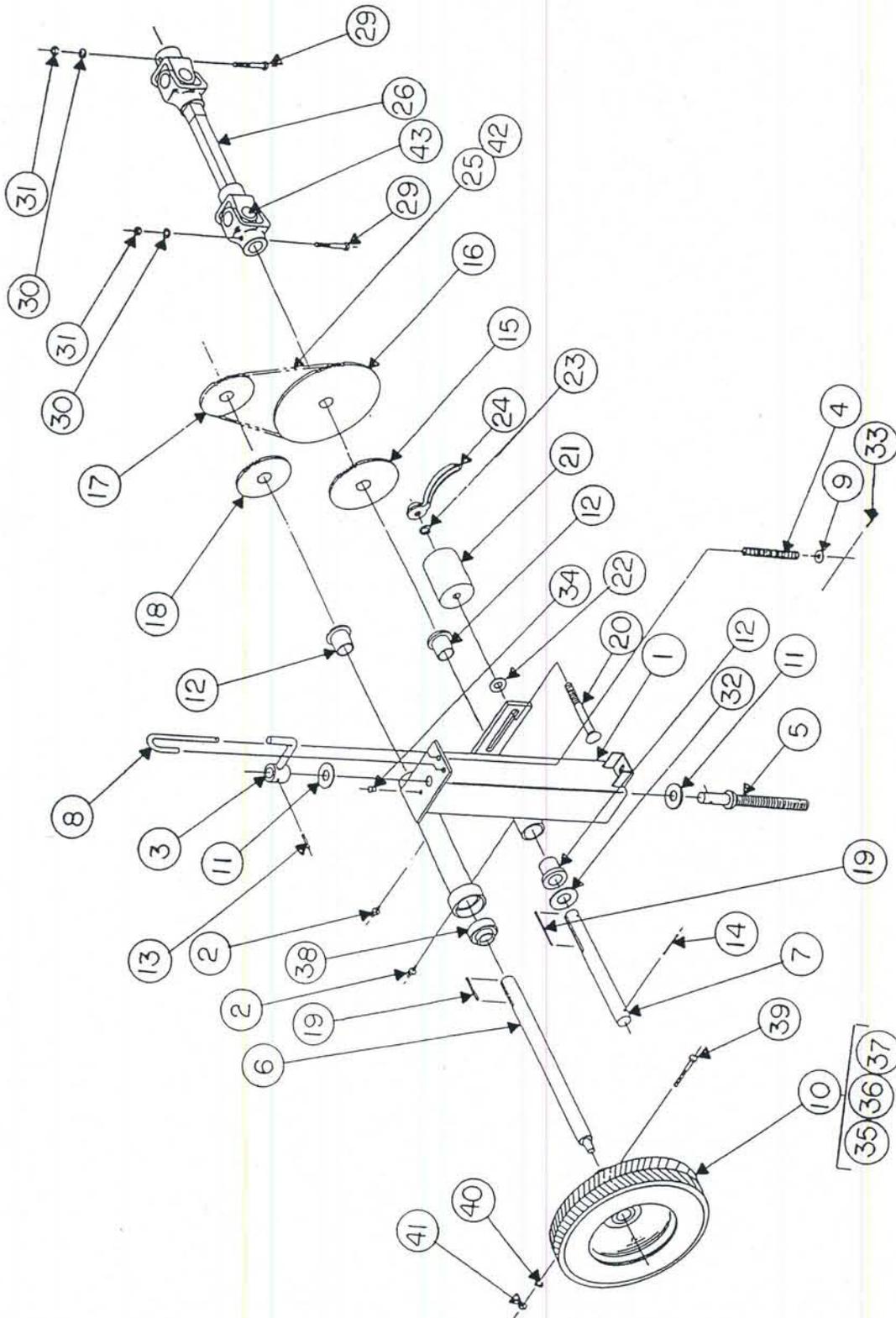


FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
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	1001863	GROUND DRIVE ASSEMBLY	
1	1001862	OUTER TUBE WELDMENT	1
2	90800	GREASE ZERK	2
3	1005192	HANDLE WELDMENT	1
4	1001514	SPRING, GROUND DRIVE	1
5	1005191	THREADED ROD, GROUND DRIVE	1
6	1001864	SHAFT, WHEL DRIVE	1
7	1001402	SHAFT, GROUND DRIVE	1
8	1008046	RETAINER, HANDLE	1
9	120393	FLAT WASHER, 5/16	1
10	1001658	TIRE ASSEMBLY, GROUND DRIVE	1
11	131017	WASHER	2
12			
13	F17039	SPRING PIN, 3/16 X 1 1/4	1
14	1001689	SPRING PIN, 3/8 X 1 3/4	1
15	1000501	SPROCKET, 32 T	1
16	1000503	SPROCKET, 48 T	1
17	1000504	SPROCKET, 12 T	1
18	1000505	SPROCKET, 24 T	1
19	92215	KEY, 1/4 X 1/4 X 2	2
20	1001631	CAR. BOLT, 1/2-13 X 5, SQ.	1
21	1000923	IDLER BLOCK	1
22	120390	FLAT WASHER, 1/2	1
23	F15973	LOCKWASHER, 1/2	1
24	1002425	HANDLE, ADJUSTMENT	1
25	1001447	CHAIN, #40 RC, SS	1
26	1000523	PTO COMPLETE, GD	1
27			
28			
29	1000816	HHCS, 1/2-20 X 2 1/2	2
30	120380	LOCKWASHER, 1/4	2
31	1000815	HEX NUT, 1/4	2
32	1002464	BUSHING, MACHINERY	1
33	1002418	COTTER PIN, 3/32 X 3/4	1
34	1001523	COVER, OIL HOLE	1
35	1001659	TIRE, GROUND DRIVE	1
36	1001660	TUBE, GROUND DRIVE	1
37	1001661	WHEEL, GROUND DRIVE	1
38	1001865	BEARING, 1 BR	4
39	122077	HHCS, 5/16 X 2 1/2	1
40	1000836	LOCKWASHER, 5/16	1
41	1000835	HEX NUT, 5/16	1
42	1000964	CONNECTOR LINK, RC 40	1
43	1005139	KIT, U-JOINT CROSS REPAIR	2



GROUND DRIVE ASSEMBLY

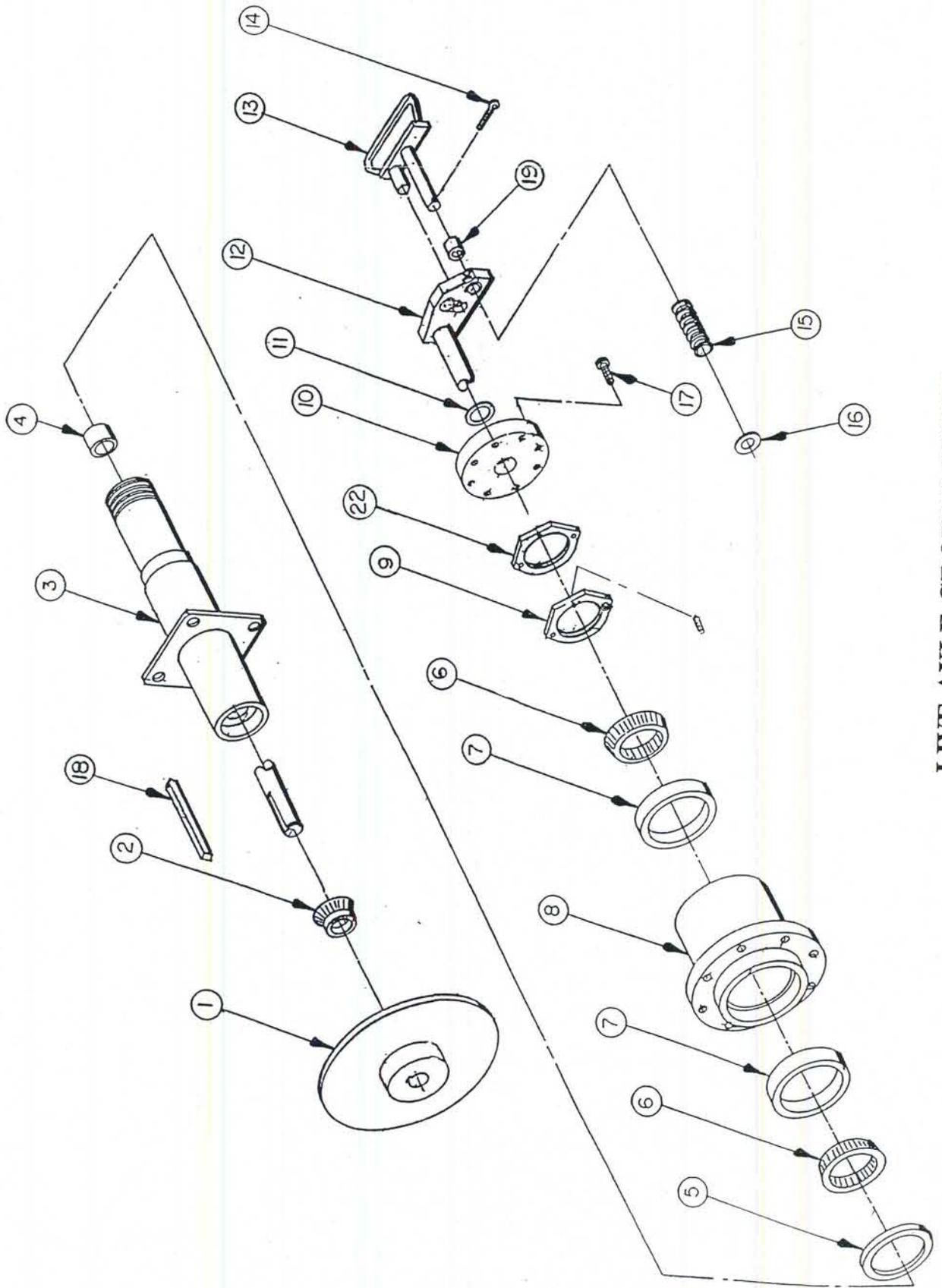
FIG. AND  
INDEX  
NUMBER

PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

			REF.
	1011133	LIVE AXLE GROUND DRIVE	
1	1009775	SPROCKET, 50B - 60T	1
2	93743	BEARING, 1 1/4"	1
3	1009884	LIVE AXLE WELDMENT	1
4	166593	BUSHING	1
5	1009765	OIL SEAL	1
6	1009764	BEARING CONE	2
7	1009763	BEARING CUP	2
8	1009849	WHEEL HUB	1
9	1009863	JAM NUT, 3-12	1
10	1009778	HUB CAP	1
11	1009877	SEAL	1
12	1009777	DRIVE ARM	1
13	1009769	DRIVE ENGAGEMENT WELDMENT	1
14	137258	COTTER PIN, 3/16 X 1	1
15	90479	SPRING	1
16	F13412	FLAT WASHER, 1"	1
17	F100373	SHCS, 5/16-18 X 3/4	8
18	92215	KEY	1
19	92652	BUSHING	1
20	1009899	COVER PLATE, (NOT SHOWN)	1
21	1000857	BRAKE COVER PLATE, (NOT SHOWN)	1
22	1011245	HEX NUT, W/TAPPED HOLE	1



LIVE AXLE GROUND DRIVE

FIG. AND  
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DESCRIPTION

UNITS  
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ASS'Y

1004318

GROUND DRIVE ASSEMBLY

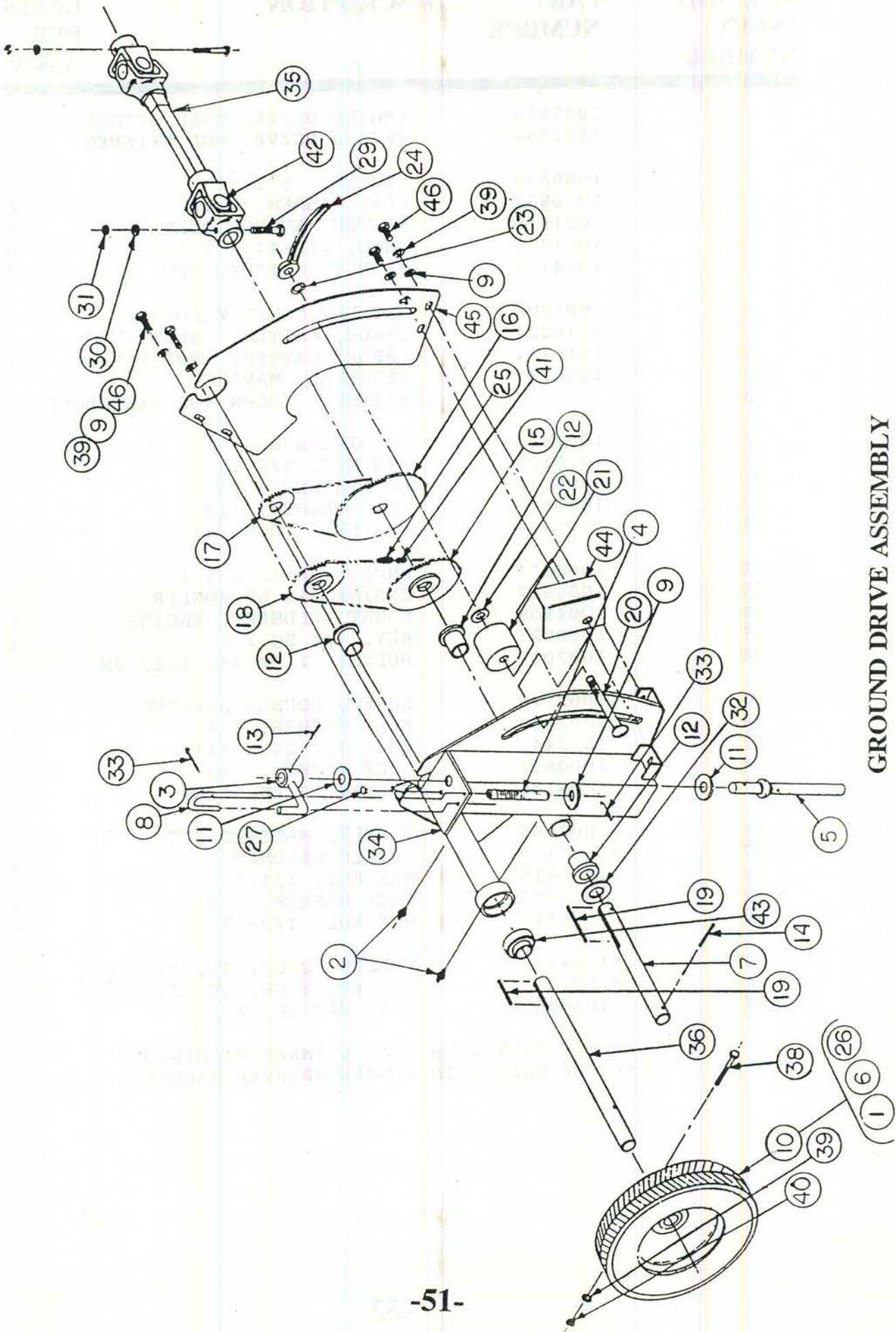
NOTE: THIS GROUND DRIVE ASSEMBLY IS ON UNITS BUILT BETWEEN 1976 AND 1982. FOR EARLIER YEARS AND UNITS BUILT AFTER 1982, SEE PAGE 46

1	1001661	WHEEL, GROUND DRIVE	1
2	152915	LUBE FITTING, 3/16 STRAIGHT	2
3	1005192	HANDLE WELDMENT	1
4	1001514	SPRING, GROUND DRIVE	1
5	1005191	THREADED ROD, GROUND DRIVE	1
6	1001660	TUBE, GROUND DRIVE	1
7	1001402	SHAFT, GROUND DRIVE	1
8	1001444	RETAINER, HANDLE	1
9	1000837	FLAT WASHER, 5/16	5
10	1001658	TIRE ASSEMBLY, GROUND DRIVE	1
11	1001407	WASHER, 3/4 ID X 1 3/4 OD	2
12	1001439	BEARING, FLANGE	3
13	1002478	SPRING PIN, 3/16 X 1 1/4	1
14	1001689	SPRING PIN, 3/16 X 2	1
15	1000501	SPROCKET, 32 T	1
16	1000503	SPROCKET, 48 T	1
17	1000504	SPROCKET, 12 T	1
18	1000505	SPROCKET, 24 T	1
19	1000827	KEY, 1/4 X 1/4 X 2	2
20	1006277	CAR BOLT, 1/2-13 X 3, SQ.	1
21	1006275	IDLER BLOCK	1
22	1010025	FLAT WASHER, 1/2	1
23	1000814	LOCKWASHER, 1/2	1
24	1002425	HANDLE, ADJUSTMENT	1
25	1001447	CHAIN, #40 RC, SS	1
26	1001659	TIRE, GROUND DRIVE	1
27	1001523	COVER, OIL HOLE	1
28			
29	1000816	HHCS, 1/4-20 X 2 1/2	2
30	1000806	LOCKWASHER, 1/4	2
31	1000815	HEX NUT, 1/4	2
32	1002464	BUSHING, MACHINERY	1
33	1002418	COTTER PIN, 3/32 X 1	2
34	1006276	TUBE WELDMENT, OUTER	1
35	1000523	PTO, COMPLETE, GROUND DRIVE	1
36	1001864	SHAFT, WHEEL DRIVE	1
37			
38	1002002	HHCS, 5/16-18 X 2 1/2	1
39	1000836	LOCKWASHER, 5/16	5
40	1000835	HEX NUT, 5/16	1
41	1000964	CONNECTOR LINK, RC40-SS	1
42	1005139	KIT, U-JOINT CROSS REPAIR	1

## GROUND DRIVE ASSEMBLY, continued

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
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43	1001865	BEARING, 1" BR	1
44	1006271	SHIELD	1
45	1006273	SHIELD, GROUND DRIVE	1
46	1000834	HHCS, 5/16-18 X 3/4	4



GROUND DRIVE ASSEMBLY

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1007328	ENGINE DRIVE, DUAL SPINNERS	
	1007329	ENGINE DRIVE, SGL SPINNER	
1	1000835	HEX NUT, 5/16-18	4
2	1000837	FLAT WASHER, 5/16	4
3	1001815	BATTERY ANCHOR BOLT	2
4	1001994	HHCS, 1/2-13 X 1 1/2	6
5	1004115	V-BELT, MATCHED SET	2
6	1006202	BATTERY MOUNT WELDMENT	1
7	1010224	CABLE, BATTERY, NEGATIVE	1
8	1010134	CABLE, BATTERY, POSITIVE	1
9	1010135	TERMINAL, MARINE	1
10		BATTERY, SHOWN FOR REFERENCE	
11	1001814	HOLDING ANGLE	1
12	1000809	HEX NUT, 3/8-16	4
13	1000810	LOCKWASHER, 3/8	4
14	1000811	FLAT WASHER, 3/8	4
15	1001633	HEX NUT, LOCK, 5/16-18	2
16	1000804	HHCS, 3/8-16 X 1 1/2	4
17	1006437	ENGINE, 16 HP KOHLER	1
18	1004108	MOUNT WELDMENT, ENGINE	1
19	1000827	KEY, 1/4 SQ X 2	1
20	1002001	PULLEY, 2 AK 34, 1.12 BR	1
21	1002770	SHAFT, DOUBLE BEARING	1
22	1001423	FLAT WASHER, 1/4	4
23	151244	HHCS 1/4-20 X 3/4	4
24	1000814	LOCK WASHER, 1/2	6
25	1004116	PULLEY, 2 AK, 1 BR	1
26	1003486	V-BELT, MATCHED SET	2
27	1004150	SHIELD WELDMENT	1
28	1000815	HEX NUT, 1/4-20	4
29	1000806	LOCK WASHER, 1/4	4
30	1000813	HEX NUT, 1/2-13	6
31	*1004117	PULLEY, 2 GR, 3V, 3.15 X 1	1
	**1007327	PULLEY, 2 GR, 3V, 3.65 X 1	1
32	1010025	FLAT WASHER, 1/2	6

\* USE ONLY WITH DUAL SPINNER MACHINES  
\*\* USE ONLY WITH SINGLE SPINNER MACHINES

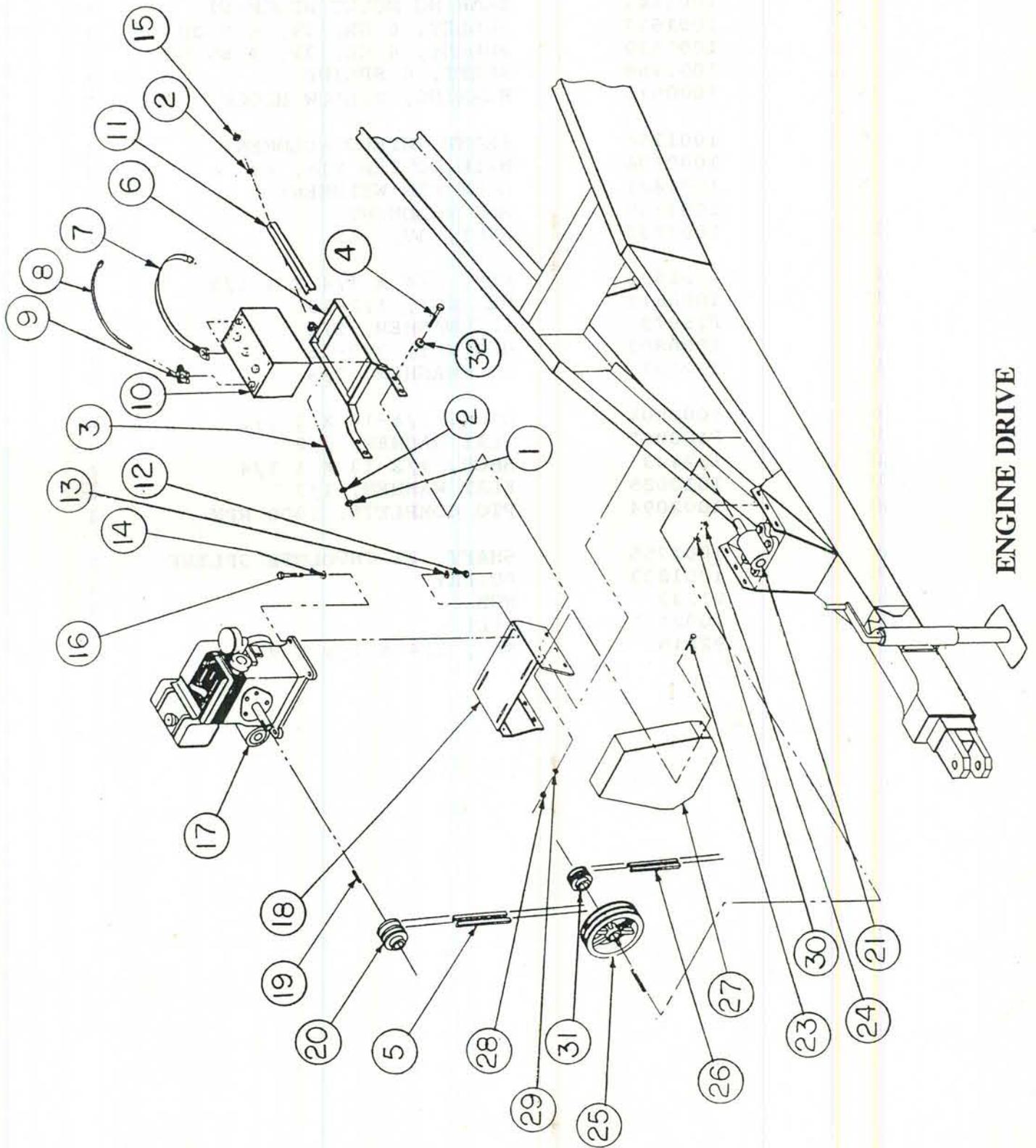
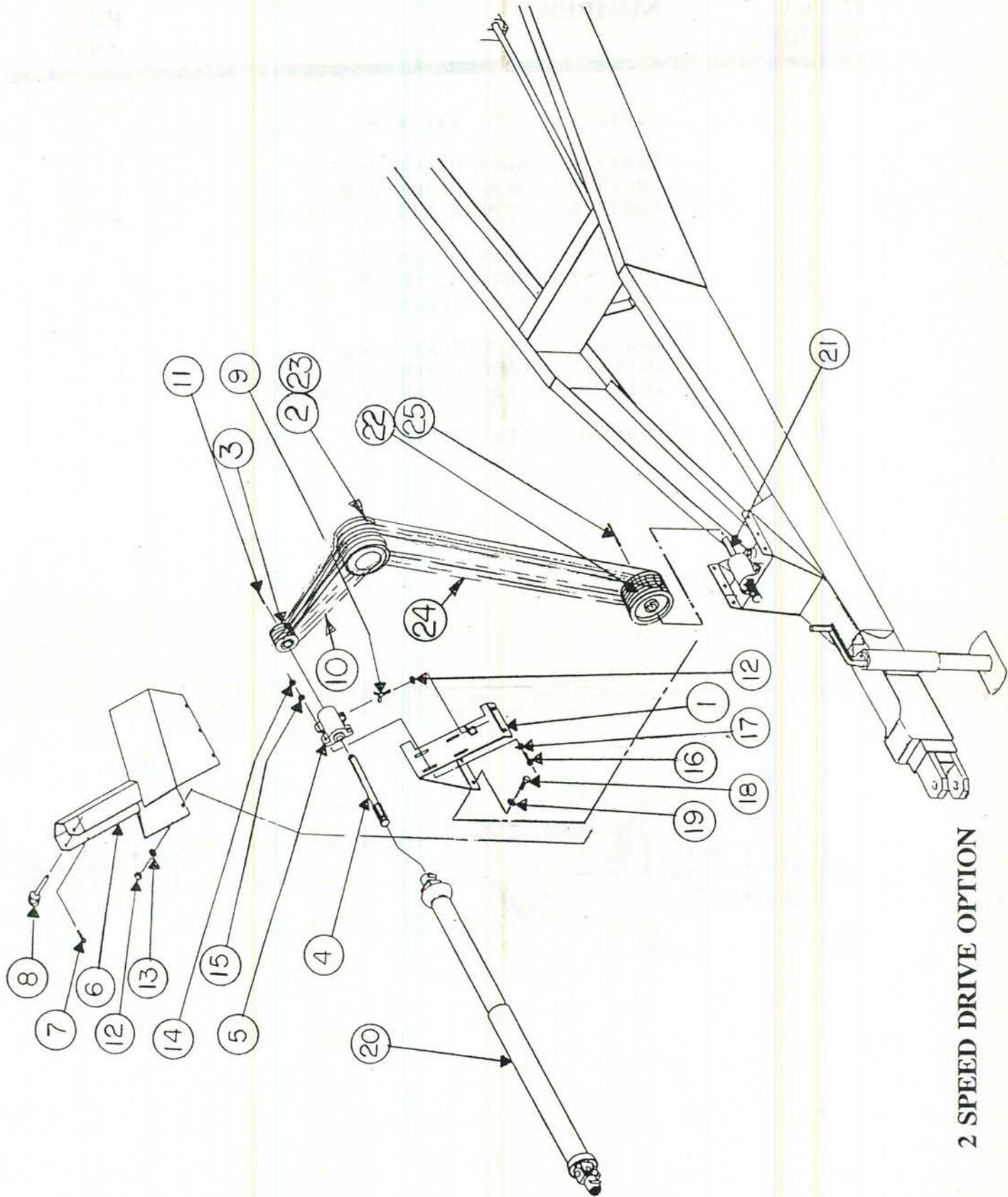


FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
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	1001835	DRIVE OPTION, 2 SPEED	
1	1001641	BEARING MOUNT WELDMENT	1
2	1001637	PULLEY, 6 GR, 3V, 6.5 OD	1
3	1001639	PULLEY, 4 GR, 3V, 3.65 OD	1
4	1001758	SHAFT, 6 SPLINE	1
5	1000519	BEARING, PILLOW BLOCK	2
6	1001764	FRONT SHIELD WELDMENT	1
7	1000796	HAIR COTTER PIN, #3	1
8	1001801	LOCK PIN WELDMENT	1
9	1001649	ROD WELDMENT	1
10	1001832	BELT, 3V, 315	4
11	1001695	KEY, 1/4 X 1/4 X 4 1/2	2
12	1000813	HEX NUT, 1/2-13	7
13	F15973	LOCKWASHER, 1/2	6
14	1000809	HEX NUT, 3/8-16	4
15	1000810	LOCKWASHER, 3/8	4
16	1000804	HHCS, 3/8-16 X 1 1/2	4
17	F100062	FLAT WASHER, 3/8	4
18	122433	HHCS, 1/2-13 X 1 1/4	6
19	1010025	FLAT WASHER, 1/2	6
20	1002094	PTO COMPLETE, 1000 RPM	1
21	1001755	SHAFT, 21 INVOLUTE SPLINE	1
22	1001833	PULLEY	1
23	91232	HUB	1
24	1002135	BELT	1
25	92215	KEY, 1/4 X 1/4 X 2	1



2 SPEED DRIVE OPTION

FIG. AND  
INDEX  
NUMBER

PART  
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DESCRIPTION

UNITS  
PER  
ASS'Y

	1009228	PTO, 540 RPM	
1	1001729	SNAP HITCH YOKE	1
2	1005340	SNAP HITCH KIT	1
3	1001730	REPAIR KIT, COMPLETE	1
7	1011252	SHIELD, INNER, 31"	1
8	1011253	SHIELD, OUTER, 31"	1
9	1002434	RETAINER KIT	1
11	1001733	IMPLEMENT YOKE	1
12	1011254	LABEL, OUTSIDE WARNING	1
13	1011255	LABEL, INSIDE WARNING	1
15	1004186	PTO SHIELD KIT, W/RETAINER	1

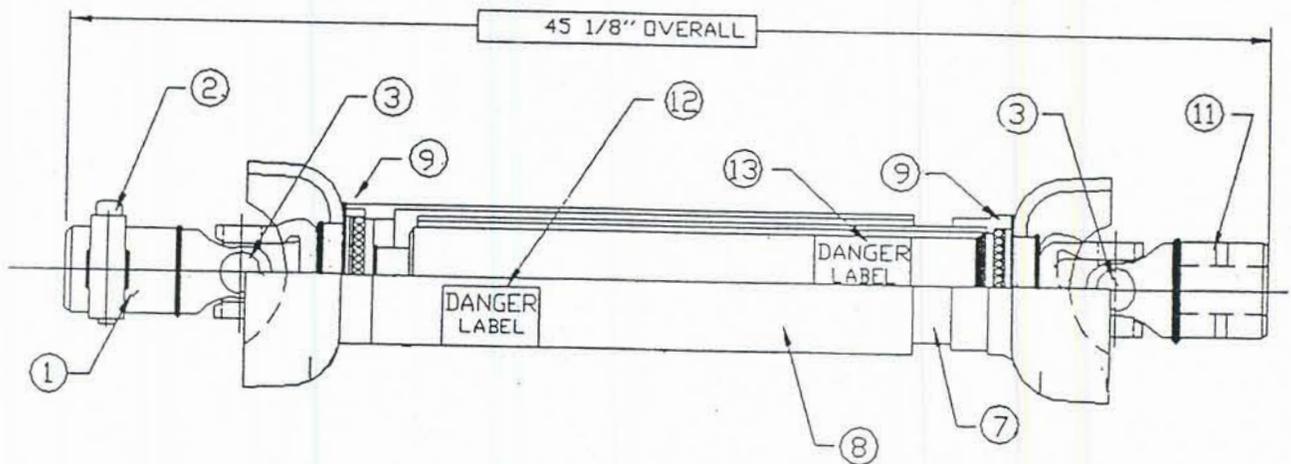


FIG. AND  
INDEX  
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PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1011158	PTO, 1000 RPM	
1	1001729	SNAP HITCH YOKE	1
2	1005340	SNAP HITCH KIT	1
3	1005139	REPAIR KIT, COMPLETE	1
7	1011256	SHIELD, INNER, 33"	1
8	1011257	SHIELD, OUTER, 33"	1
9	1011259	RETAINER KIT	1
11	1011260	SNAP HITCH YOKE	1
12	1011254	LABEL, OUTSIDE WARNING	1
13	1011255	LABEL, INNER WARNING	1
14	1011258	SNAP HITCH KIT	1
15	1011261	PTO SHIELD KIT, W/RETAINER	1

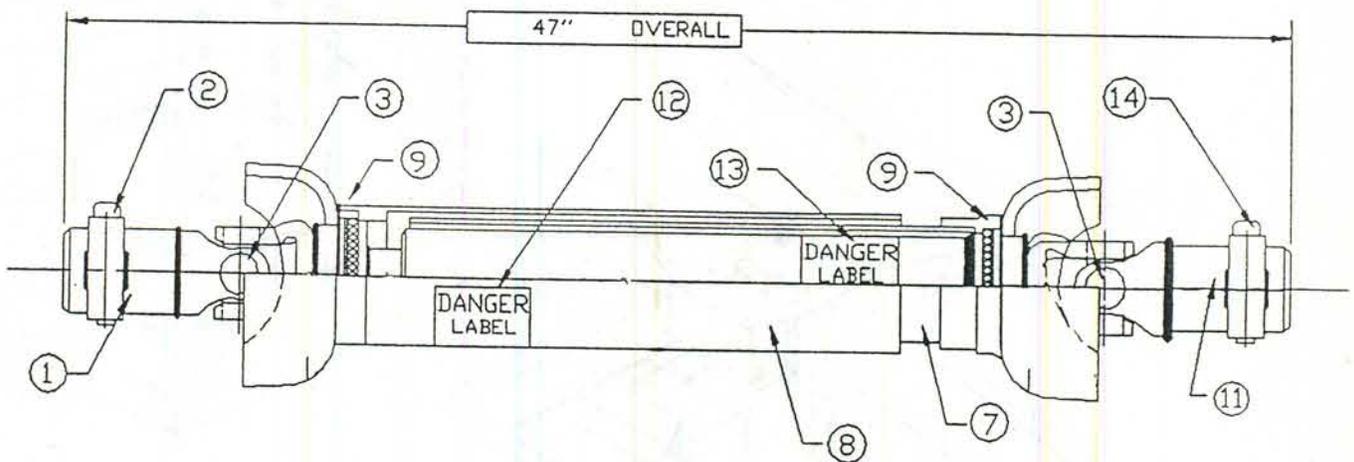


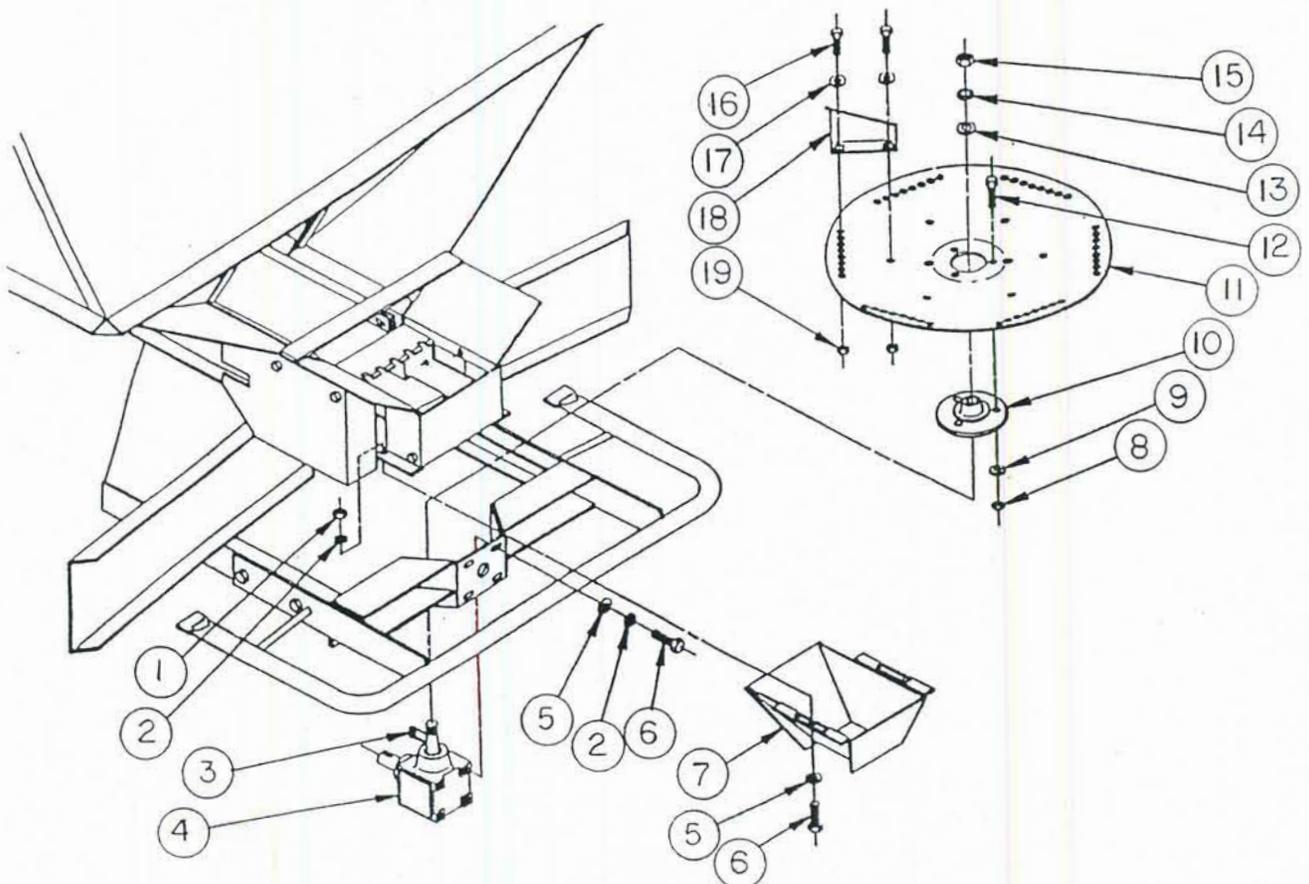
FIG. AND  
INDEX  
NUMBER

PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1007314	SINGLE SPINNER REAR AREA	
1	1000809	HEX NUT, 3/8-16	2
2	1000810	LOCKWASHER, 3/8	6
3	1000935	WOODRUFF KEY, 808	1
4	1007100	GEAR BOX ASSEMBLY	1
5	1000811	FLAT WASHER, 3/8	6
6	1000981	HHCS, 3/8-16 X 1	6
7	13105	CHUTE WELDMENT	1
8	1000835	HEX NUT, 5/16-18	3
9	1000836	LOCKWASHER, 5/16	3
10	1003709	HUB, SPINNER	1
11	1007259	DISTRIBUTOR DISC	1
12	1010175	HHCS, 5/16-18 X 1	3
13	151974	FLAT WASHER, 3/4	1
14	150125	LOCKWASHER, 3/4	1
15	150124	HEX NUT, 3/4-16	1
16	1000834	HHCS, 5/16-18 X 3/4	12
17	1000837	FLAT WASHER, 5/16	12
18	1007258	DISTRIBUTOR BLADE	6
19	1001633	HEX NUT, LOCK, 5/16-18	12



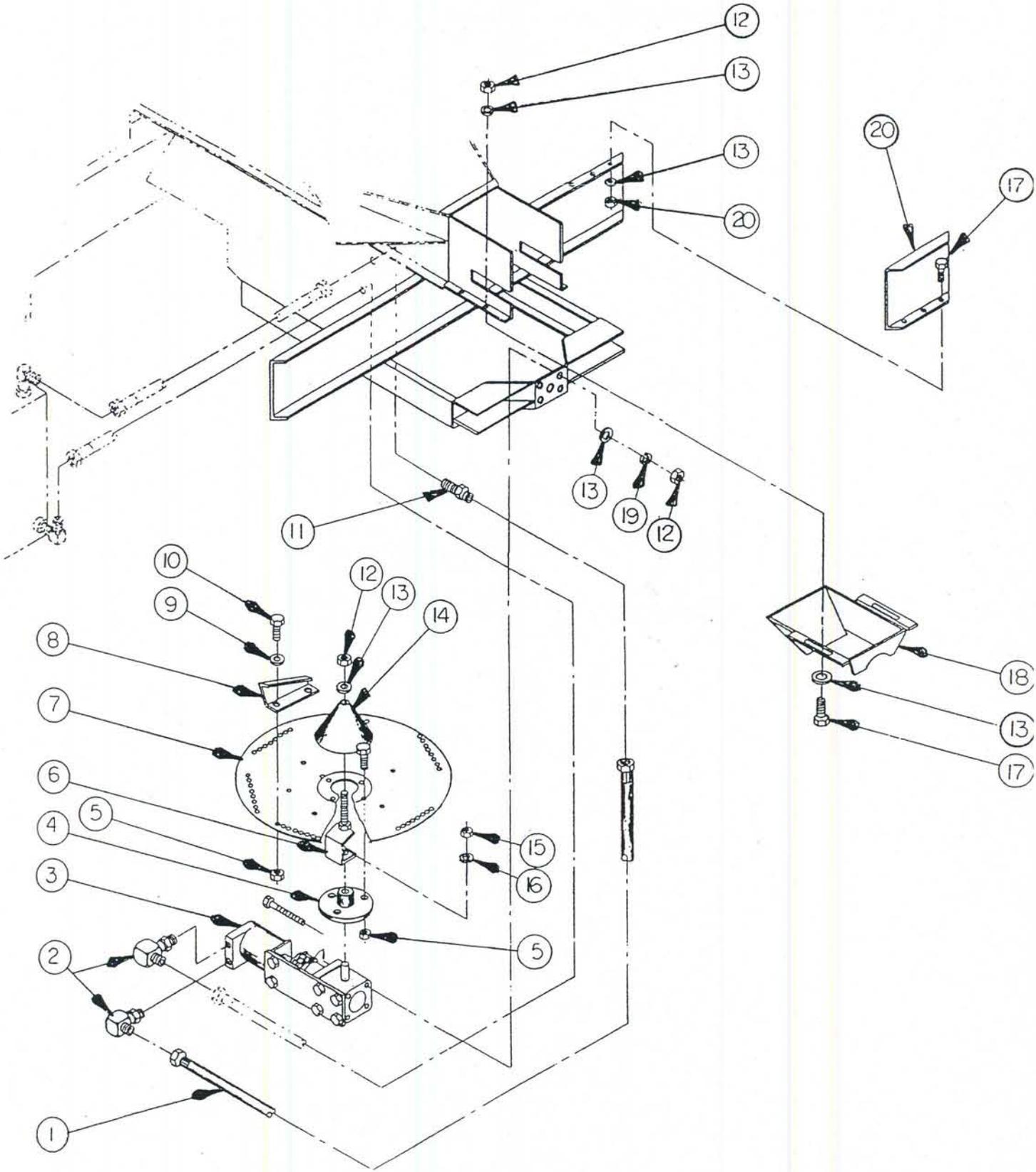
**FIG. AND  
INDEX  
NUMBER**

**PART  
NUMBER**

**DESCRIPTION**

**UNITS  
PER  
ASS'Y**

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	<b>1009188</b>	<b>SPINNER ASSEMBLY, SINGLE, AGHD</b>	
1	93752	HYD. HOSE ASSEMBLY	1
2	1008460	HYD. FITTING, 6400-8-6	2
3	1009312	GEARBOX ASSEMBLY	1
4	1003709	SPINNER HUB	1
5	9413447	HEX LOCK NUT, 5/16-18	15
6	12685	MNTG. BRACKET WELDMENT	1
7	1007259	DISTRIBUTOR DISC	1
8	1007258	DISTRIBUTOR BLADE	6
9	1000837	FLAT WASHER, 5/16	12
10	F100306	HHCS, 5/16-18 X 3/4	12
11	91943	HYD. FITTING, 2700-LN-STR-8-8	1
12	120377	HEX NUT, 3/8-16	23
13	120394	FLAT WASHER, 3/8	11
14	90585	PLASTIC CONE	1
15	426099	HEX NUT, 3/4-16	1
16	131046	LOCKWASHER, 3/4	1
17	F100311	HHCS, 3/8-16 X 1	13
18	13105	CHUTE WELDMENT	1
19	120382	LOCKWASHER, 3/8	13
20	1008988	DEFLECTOR SHIELD	2



SINGLE SPINNER ASSEMBLY, AGHD

FIG. AND  
INDEX  
NUMBER

PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1007100	GEAR BOX ASS'Y, SINGLE SPINNER	
1	1001205	BARREL ASSEMBLY	1
2	1003735	BOX ASSEMBLY, RH	1
3	1000834	HHCS, 5/16-18 X 3/4	8
4	1000836	LOCKWASHER, 5/16	8
5	1004002	GEAR BOX COVER	1
6	1000940	GASKET	2
7	1000930	SEAL	2
8	1000933	RETAINER RING	3
9	1000932	BEARING	4
10	1000931	RETAINER RING	4
11	1000944	BARREL HOUSING	1
12	1000948	SHAFT & GEAR ASSEMBLY	1
13	1000938	PLUG, SOFT	1
14	1002426	GEAR	1
15	1006856	PIPE PLUG, 1/4 NPT, PLASTIC	1
16	1003742	LUBE FITTING, 1/4-28 X 45	1
17	1000936	HOUSING, RH	1
18	1003730	SHAFT, TAPERED, RH	1

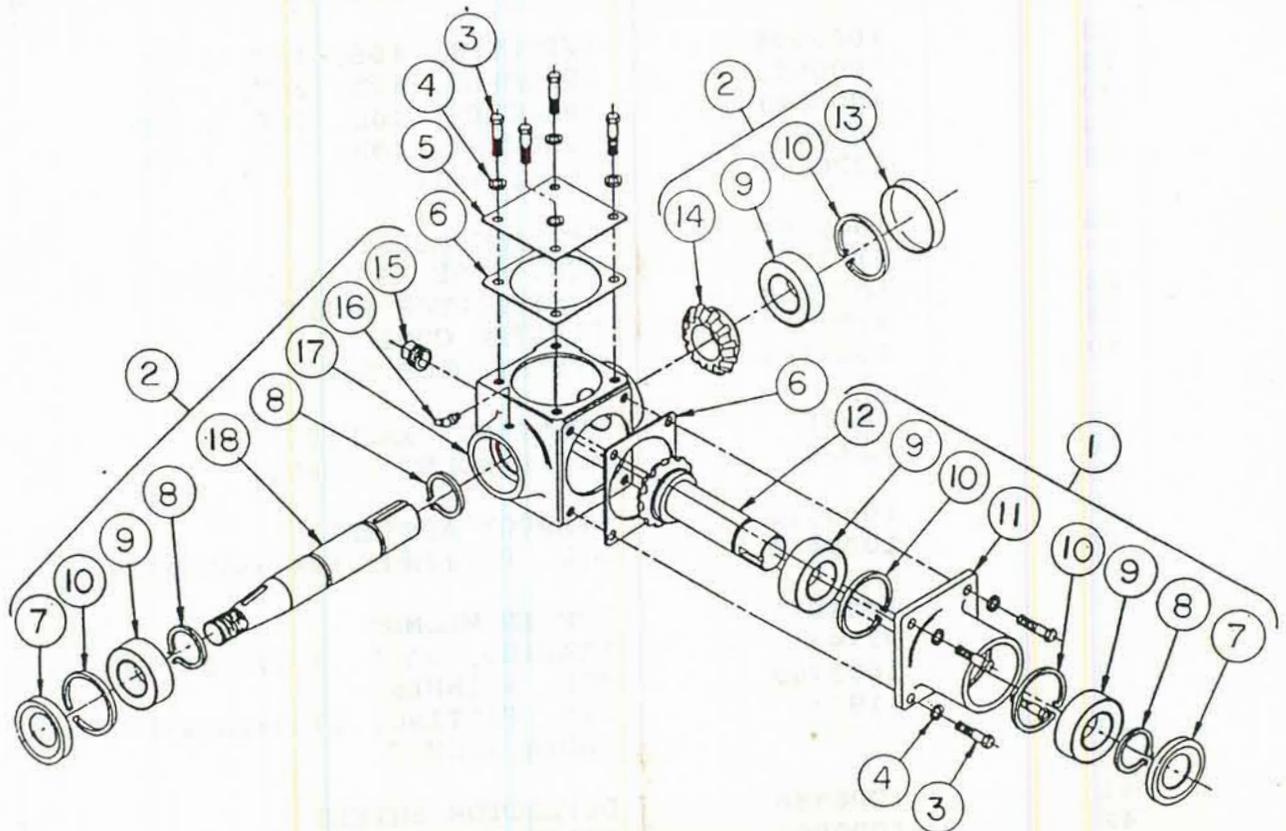
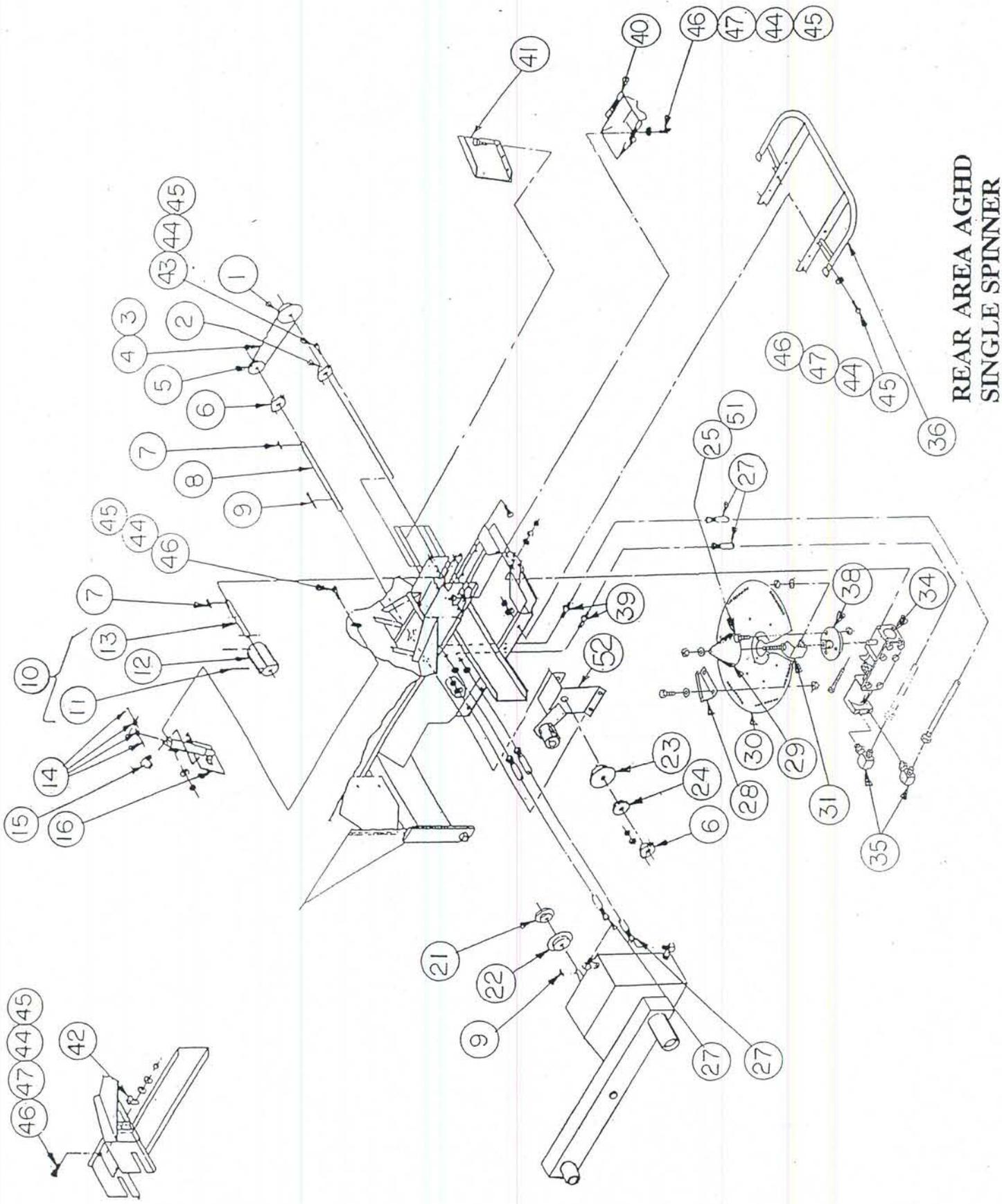


FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
REAR AREA, AGHD SINGLE SPINNERS, 650-900			
1	1000507	SPROCKET, 50 B, 36 T, 1 1/4	1
2	1000646	BEARING, FLANGED, 1 1/4 ID	2
3	90395	CHAIN, 50, 95P, SS IC	1
4	641318	CONNECTOR LINK, 50S	1
5	1000506	SPROCKET, 50 B, 12 T, 1 BR	1
6	1000518	BEARING, FLANGED 1 ID	2
7	1000786	KEY, 1/4 X 1/4 X 1 1/2	2
8	12952	SHAFT, CROSS, CONVEYOR DRIVE	1
9	93460	KEY, 1/4 X 1/4 X 2 1/2	2
10	1000838	SPROCKET ASSEMBLY, DRIVE	1
11	1000959	SPRING PIN, 5/16 X 3 1/2	2
12	1000684	CAST SPROCKET	1
13	1000644	SHAFT, SPROCKET	1
14	1002929	GEAR, BEVEL W/PINS	1
15	1003382	KIT, GEAR COVER & RETAINER	1
16	1004557	JACK WELDMENT, GATE	1
17	90763	SET COLLAR, 1 1/4 X 2	1
18	12685	SPINNER ROD	1
19	120214	LOCK WASHER, 5/16	4
20	120376	HEX NUT, 5/16-18	4
21	1000504	SPROCKET, 40B, 12T, 1 BR	1
22	1000505	SPROCKET, 40B, 24T, 1 BR	1
23	1000501	SPROCKET, 40B, 36T, 1 BR	1
24	90276	SPROCKET, 40B, 20T, 1 BR	1
25	122017	HHCS, 5/16-18 X 1	3
26			
27	93752	HYD. HOSE ASSEMBLY, 1/2 X 32	1
28	1007258	DISTRIBUTOR BLADE	6
29	90585	PLASTIC CONE	1
30	1007259	DISTRIBUTOR DISC	1
31	12685	MOUNTING BRACKET	1
32	12928	MOTOR MOUNT WLDMNT,	1
33			
34	1009312	GEARBOX ASSEMBLY	1
35	1008460	HYD. FITTING, 6801-NWO-90-8-8-6	2
36	1008033	BUMPER WLDMNT	1
37	93743	BEARING, BALL, 1 1/4 X 2.83	1
38	1003709	HUB, SPINNER	1
39	91943	HYD. FITTING, 2700-LN-8-8	1
40	13105	CHUTE WLDMNT	1
41	1008988	DEFLECTOR SHIELD	2
42	1000961	CHAIN IDLER WLDMNT	1

REAR AREA, AGHD, continued

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
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43	120918	HHCS, 3/8-16 X 1 1/2	6
44	120382	LOCKWASHER, 3/8	21
45	120377	HEX NUT, 3/8-16	23
46	120233	HHCS, 3/8-16 X 1	11
47	120394	FLAT WASHER, 3/8 AN	14
48	122145	HHCS, 3/8-16 X 1 1/4	4
49	122007	HHCS, 5/16-18 X 3/4	16
50	446363	FLAT WASHER, 5/16 AW	16
51	9413447	HEX NUT, 5/16-18	15
52	1009332	IDLER ARM ASSEMBLY	1



**REAR AREA AGHD  
SINGLE SPINNER**

FIG. AND  
INDEX  
NUMBER

PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1009312	HYD. DRIVE, SINGLE SPINNER	
1	1003735	GEAR BOX, RH	1
2	1000940	GASKET	2
3	1001205	INPUT SHAFT ASSEMBLY	1
4	1008463	COUPLING, HALF, 1" BR	1
5	1008464	COUPLING, CHAIN	1
6	1008462	COUPLING, HALF, 5/8" BR	1
7	1009311	SIDE COVER PLATE	1
8	1009310	MOTOR MOUNT PLATE	1
9	1008646	HYD MOTOR	1
			REF

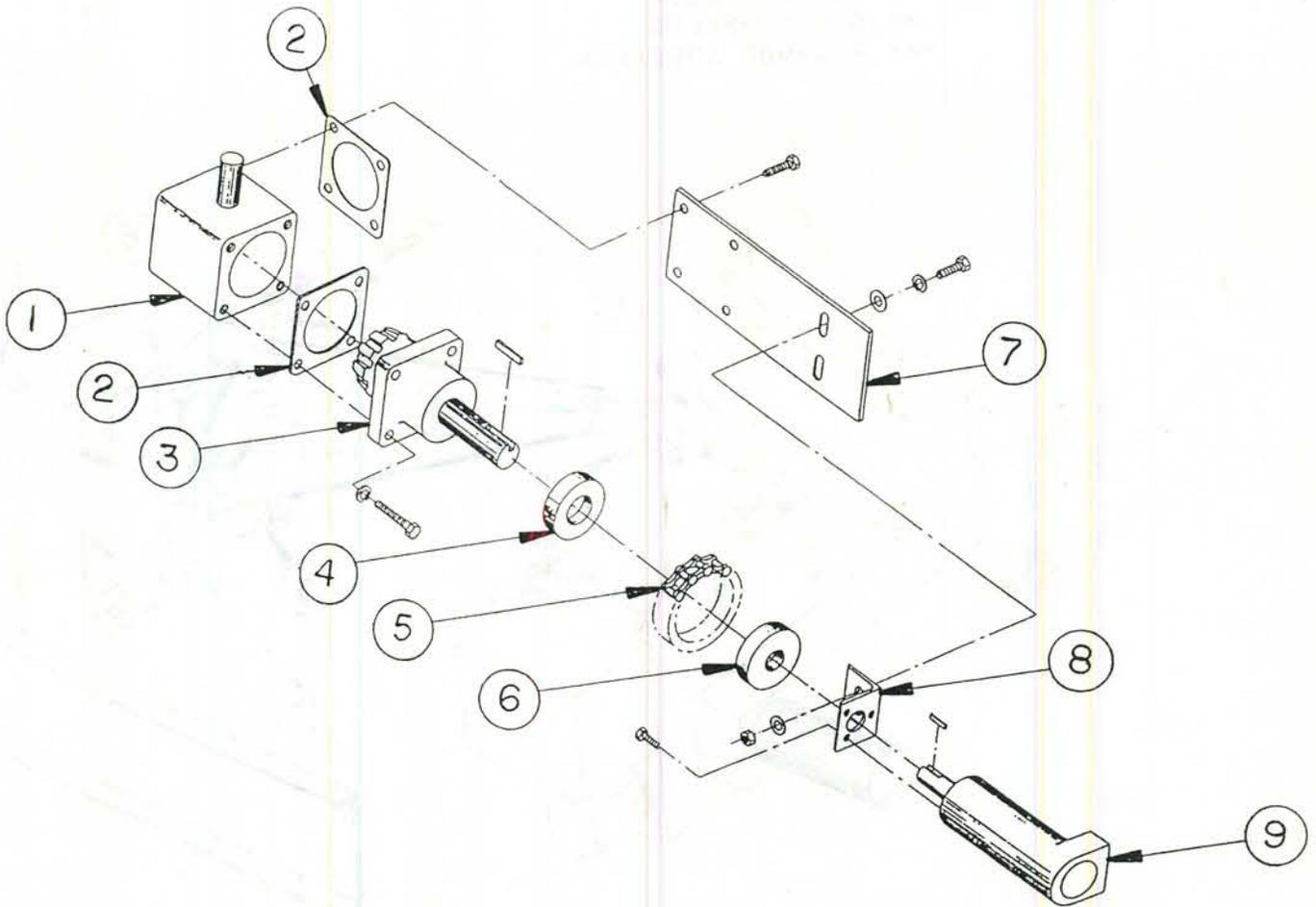


FIG. AND  
INDEX  
NUMBER

PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1009295	CHAIN TIGHTENER ASSEMBLY	
1	93460	KEY, 1/4 X 1/4 X 2 1/2	1
2	1000505	SPROCKET, 40B, 24T X 1" BR	1
3	1000504	SPROCKET, 40B, 12T X 1" BR	1
4	*1001447	ROLLER CHAIN	1
	**1001857	ROLLER CHAIN	1
	***1008560	ROLLER CHAIN	1
5	1001522	SPRING, EXTENSION	1
6	1009332	IDLER ARM ASSEMBLY	1
7	1009051	BEARING MOUNT	1
8	1000501	SPROCKET, 40B, 32T X 1" BR	1
9	90276	SPROCKET, 40B, 20T X 1" BR	1
10	12952	SHAFT	1
11	1000518	BEARING	2

\* 500 SPREADER  
\*\* 600 SPREADER  
\*\*\* 650-900 SPREADER

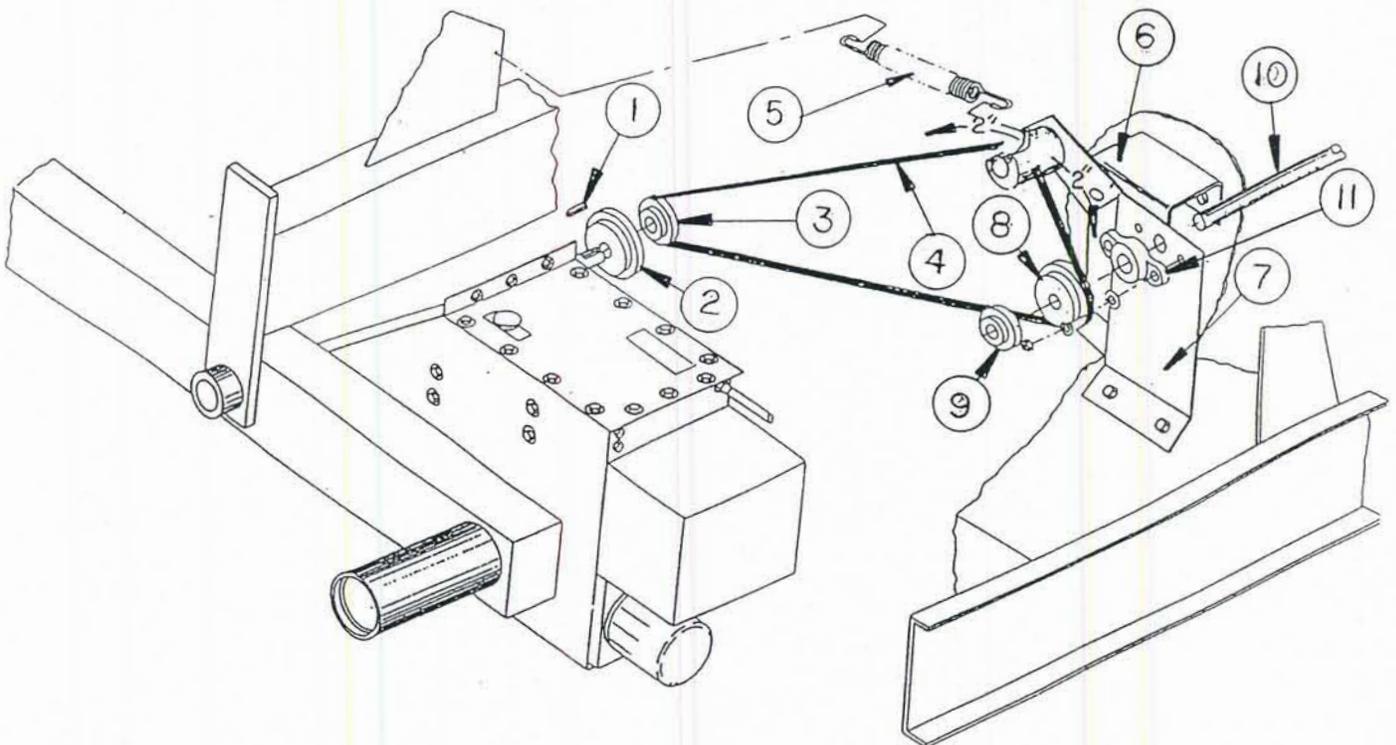


FIG. AND  
INDEX  
NUMBER

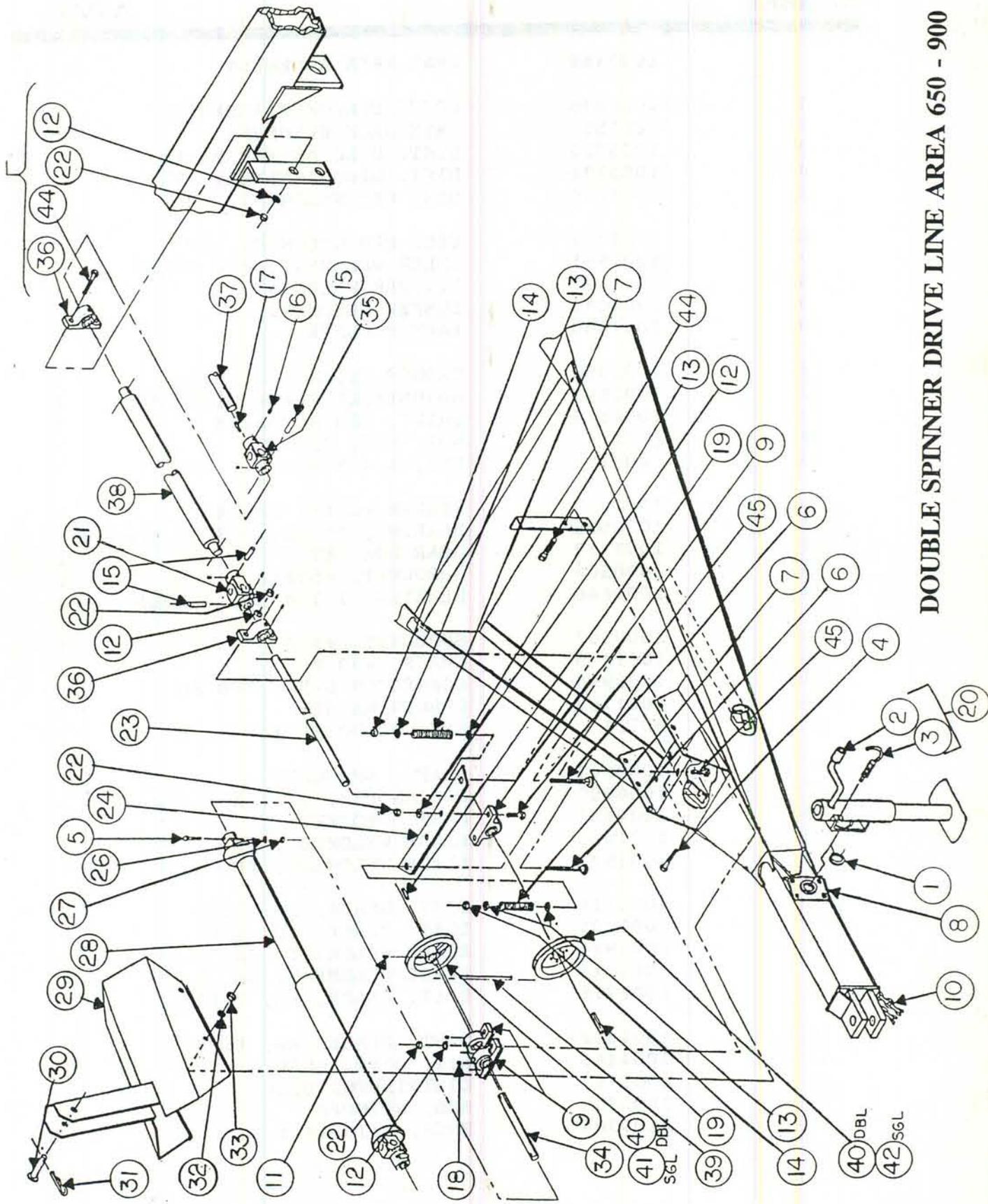
PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1007318-4	DRIVE LINE AREA, 600 DOUBLE SPINNER	
1	1002413	SNAP RING, 2.313 DIA.	REF
2	93603	KIT, JACK HANDLE REPAIR	REF
3	93600	KIT, JACK PIN REPAIR	REF
4	F100314	HHCS, 1/2-13 X 1 1/4	4
5	F100320	HHCS, 3/8-16 X 2 3/4	1
6	1001885	CARR. BOLT, 7/16-14 X 6	2
7	1001636	SPRING	2
8	1002412	PLATE, JACK, WELD-ON	REF
9	1000519	BEARING, 1" BR, PILLOW	3
10	90642	SAFETY CHAIN	1
11	1004374	SET SCREW, 1/4-20 X 1/4	REF
12	120388	WASHER, F, 3/8, TYPE AW	10
13	F1373	WASHER, F, 7/16	4
14	9414073	NUT, LOCK, 7/16-14	2
15	94470	ROLL PIN, 3/8 X 1 3/4	3
16	1000800	SET SCREW, 3/8-16 X 1/2	REF
17	93461	KEY, 1/4 X 1/4 X 1 1/4	1
18	1003444	SET SCREW, 1/4-28 X 3/8	REF
19	92215	KEY, 1/4 X 1/4	2
20	93599	TONGUE JACK COMPLETE	1
21	1000524	U-JOINT	2
22	9413534	NUT, LOCK, 3/8-16	10
23	1006108	SHAFT, FRONT	1
24	1008519	BEARING ARM, FRONT	1
26	120382	WASHER, LOCK, 3/8	1
27	120377	NUT, HEX, 3/8-16	1
28	1009228	PTO ASSEMBLY, COMPLETE	1
29	1001763	SHIELD ASSEMBLY	1
30	90476	PIN, CLEVIS, 3/8 X 4	1
31	1000796	COTTER PIN, HAIR, #8	1
32	F15973	WASHER, LOCK, 1/2	4
33	120378	NUT, HEX, 1/2-13	4
34	1004197	SHAFT, BEARING	1
35	1005139	KIT, U-JOINT CROSS R'PAR	REF
36	1008456	BEARING, SPLIT WOOD	2
37	1003737	GEAR BOX SET	REF
38	1008518	DRIVE SHAFT	1
39	1007099	BELT, B-38	1
40	1008451	PULLEY, 1" BR, SGL V	2
43	91232	BUSHING, 1" QD-SDS	2
44	F100311	HHCS, 3/8-16 X 1	4
45	122145	HHCS, 3/8-16 X 1 1/4	6

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1007318-2	DRIVE LINE AREA, 650-900 DOUBLE SPINNER	
1	1002413	SNAP RING, 2.313 DIA.	REF
2	93603	KIT, JACK HANDLE REPAIR	REF
3	93600	KIT, JACK PIN REPAIR	REF
4	F100314	HHCS, 1/2-13 X 1 1/4	4
5	F100320	HHCS, 3/8-16 X 2 3/4	1
6	1001885	CARR. BOLT, 7/16-14 X 6	2
7	1001636	SPRING	2
8	1002412	PLATE, JACK, WELD-ON	REF
9	1000519	BEARING, 1" BR, PILLOW	3
10	90642	SAFETY CHAIN	1
11	1004374	SET SCREW, 1/4-20 X 1/4	REF
12	120388	WASHER, F, 3/8, TYPE AW	10
13	F1373	WASHER, F, 7/16	4
14	9414073	NUT, LOCK, 7/16-14	2
15	94470	ROLL PIN, 3/8 X 1 3/4	3
16	1000800	SET SCREW, 3/8-16 X 1/2	REF
17	93461	KEY, 1/4 X 1/4 X 1 1/4	1
18	1003444	SET SCREW, 1/4-28 X 3/8	REF
19	92215	KEY, 1/4 X 1/4	2
20	93599	TONGUE JACK COMPLETE	1
21	1000524	U-JOINT	2
22	9413534	NUT, LOCK, 3/8-16	10
23	1001766	SHAFT, FRONT	1
24	1006079	BEARING ARM, FRONT	1
26	120382	WASHER, LOCK, 3/8	1
27	120377	NUT, HEX, 3/8-16	1
28	1009228	PTO ASSEMBLY, COMPLETE	1
29	1001763	SHIELD ASSEMBLY	1
30	90476	PIN, CLEVIS, 3/8 X 4	1
31	1000796	COTTER PIN, HAIR, #8	1
32	F15973	WASHER, LOCK, 1/2	4
33	120378	NUT, HEX, 1/2-13	4
34	1004197	SHAFT, BEARING	1
35	1005139	KIT, U-JOINT CROSS R'PAR	REF
	*1009336	WOOD BEARING ONLY	
36	1008456	BEARING, SPLIT WOOD	2
37	1003737	GEAR BOX SET	REF
38	1001665	DRIVE SHAFT	1
39	1007099	BELT, B-38	1
40	1008451	PULLEY, 1" BR, SGL V	2
43	91232	BUSHING, 1" QD-SDS	2
44	F100311	HHCS, 3/8-16 X 1	4
45	122145	HHCS, 3/8-16 X 1 1/4	6



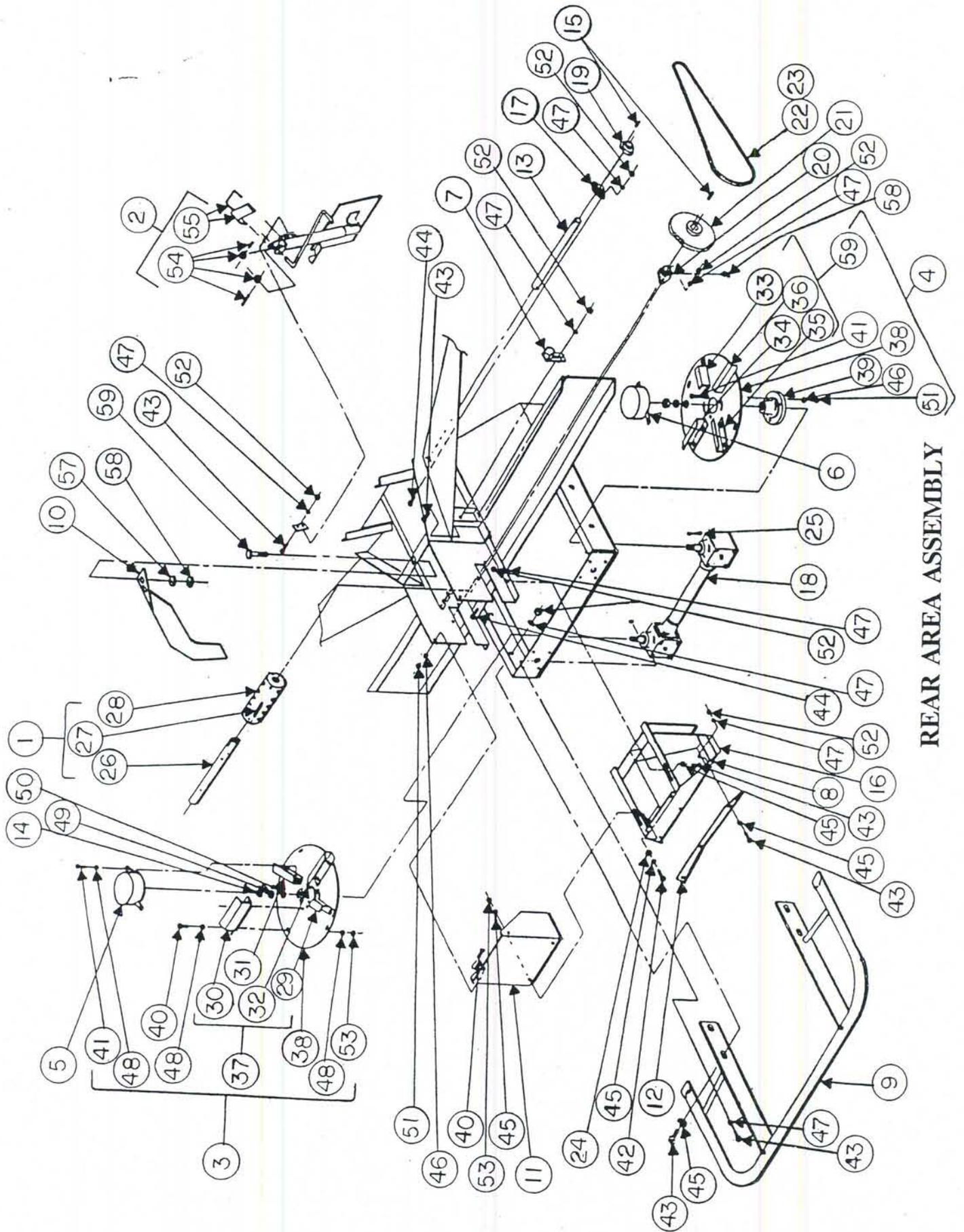
DOUBLE SPINNER DRIVE LINE AREA 650 - 900

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	<b>1002489</b>	<b>REAR AREA ASSEMBLY</b>	
1	1000838	DRIVE SPROCKET ASSEMBLY	1
2	1004557	GATE JACK WELDMENT	1
3	1003733	DIST. DISC ASSEMBLY, LH	1
4	1003734	DIST. DISC ASSEMBLY, RH	1
5	1001716	DISC CAP WELDMENT, LH	1
6	1001717	DISC CAP WELDMENT, RH	1
7	1000961	IDLER WELDMENT, #50 CHAIN	1
8	1001379	DIVIDER WELDMENT	1
9	1008033	BUMPER WELDMENT	1
10	1001380	PARTER PLATE	1
11	1001390	TROUGH EXTENSION, BACK	1
12	1001501	ADJUSTABLE PLATE DIVIDER	1
13	1000676	SHAFT, #50 RC DRIVE	1
14	150124	NUT, HEX, 3/4-16	2
15	1000786	KEY, 1/4 X 1/4 X 1 1/2	2
16	1001928	FILLER PLATE, CHUTE	2
17	1000518	BEARING, 1" BR, 2 BOLT FLANGE	2
18	1003737	GEAR BOX SET	1
19	1000506	SPROCKET, #50B12	1
20	1000646	BEARING, 1 1/4 BR, 2 BOLT	2
21	1000507	SPROCKET, #50B36	1
22	1001455	CHAIN, #50 RC	1
23	1000960	CONNECTOR LINK, #50 RC	1
24	1001703	RUBBER WASHER	2
25	90721	KEY, WOODRUFF #808	2
26	1000644	SHAFT, SPROCKET	1
27	1000959	SPRING PIN, 5/16 X 3 1/2	2
28	1000684	CAST SPROCKET	1
29	1001925	BLADE WELDMENT, LH, 4.37"	1
30	1001927	BLADE WELDMENT, LH, 5.5"	1
31	1001719	DIST. BLADE, LH, 7.0"	1
32	1001705	DIST. BLADE, LH, 8.0"	1
33	1001924	BLADE WELDMENT, RH, 4.37"	1
34	1001926	BLADE WELDMENT, RH, 5.5"	1
35	1001718	DIST. BLADE, RH, 7.0"	1
36	1001662	DIST. BLADE, RH, 8.0"	1
37	**1004466	KIT, DIST. BLADE	1
38	1003727	DISTRIBUTOR DISC	2
39	1003709	HUB, SPINNER	2
40	F100306	HHCS, 5/16-18 X 3/4	18

REAR AREA ASSEMBLY, continued

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
41	F100378	HHCS, 5/16-18 X 1	1
42	F16102	HHCS, 5/16-18 X 1 1/4	2
43	F100311	HHCS, 3/8-16 X 1	20
44	F101448	HHCS, 3/8-16 X 1 1/2	8
45	F9669	FLAT WASHER, 3/8	19
46	F9546	LOCK WASHER, 5/16	3
47	120382	LOCK WASHER, 3/8	30
48	F9549	FLAT WASHER, 5/16	33
49	131046	LOCK WASHER, 3/4	2
50	131017	FLAT WASHER, 3/4	2
51	F9547	NUT, HEX, 5/16-18	3
52	120377	NUT, HEX, 3/8-16	22
53	9413447	NUT, LOCK, 5/16-18	2
54	1002929	BEVEL GEARS WITH PINS	1
55	1003382	GEAR COVER AND RETAINER	1
56	1000801	HHCS, 3/8-16 X 3/4	2
58	F10722	LUBE FITTING	1

\*\* INCLUDES A COMPLETE SET OF DISTRIBUTOR BLADES.



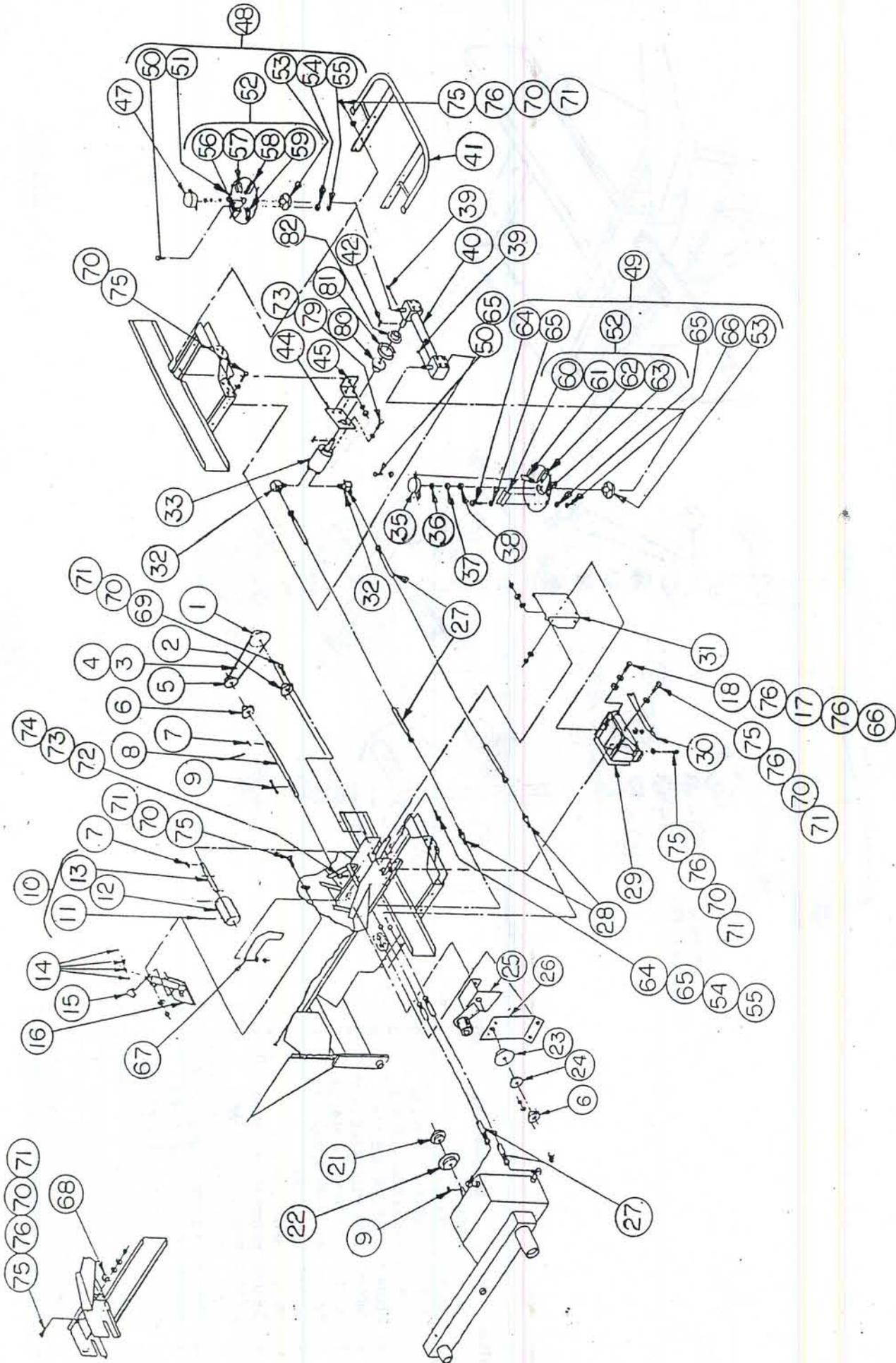
REAR AREA ASSEMBLY

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
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	13066	REAR AREA, AGHD DOUBLE SPINNERS, 650-900	
1	1000507	SPROCKET, 50 B, 36 T, 1 1/4	1
2	1000646	BEARING, FLANGED, 1 1/4 ID	2
3	90395	CHAIN, 50, 95P, SS IC	1
4	641318	CONNECTOR LINK, 50S	1
5	1000506	SPROCKET, 50 B, 12 T, 1 BR	1
6	1000518	BEARING, FLANGED 1 ID	2
7	1000786	KEY, 1/4 X 1/4 X 1 1/2	2
8	12952	SHAFT, CROSS, CONVEYOR DRIVE	1
9	93460	KEY, 1/4 X 1/4 X 2 1/2	2
10	1000838	SPROCKET ASSEMBLY, DRIVE	1
11	1000959	SPRING PIN, 5/16 X 3 1/2	2
12	1000684	CAST SPROCKET	1
13	1000644	SHAFT, SPROCKET	1
14	1002929	GEAR, BEVEL W/PINS	1
15	1003382	KIT, GEAR COVER & RETAINER	1
16	1004557	JACK WELDMENT, GATE	1
17	1001703	WASHER, RUBBER	2
18	F16102	HHCS, 5/16-18 X 1 1/4	2
19			
20			
21	1000504	SPROCKET, 40B, 12T, 1 BR	1
22	90276	SPROCKET, 40B, 20T, 1 BR	1
23	1000501	SPROCKET, 40B, 36T, 1 BR	1
24	1000505	SPROCKET, 40B, 24T, 1 BR	1
25	1009332	IDLER ARM ASSEMBLY	1
26	1009051	BEARING MOUNT	1
27	93752	HYD. HOSE ASSEMBLY, 1/2 X 32	4
28	91943	HYD. FITTING, 2700-LN-STR-8-8	2
29	1001379	DIVIDER WELDMENT	1
30	1001501	ADJUSTABLE PLATE, DIVIDER	1
31	1001390	TROUGH EXTENSION, BACK	1
32	1008460	HYD. FITTING, 6801-90-8-6	2
33	1008758	MOTOR, HYDRAULIC	1
34			
35	1001716	DISC CAP WELDMENT, LH	1
36	426099	HEX NUT, 3/4-16	2
37	131046	LOCKWASHER, 3/4	2
38	131017	FLAT WASHER, 3/4 AN	2
39	90721	KEY, WOODRUFF #808	2
40	1003737	GEAR BOX SET	1
41	1008033	BUMPER WELDMENT	1
42	93461	KEY, 1/4 X 1/4 X 1 1/4	1

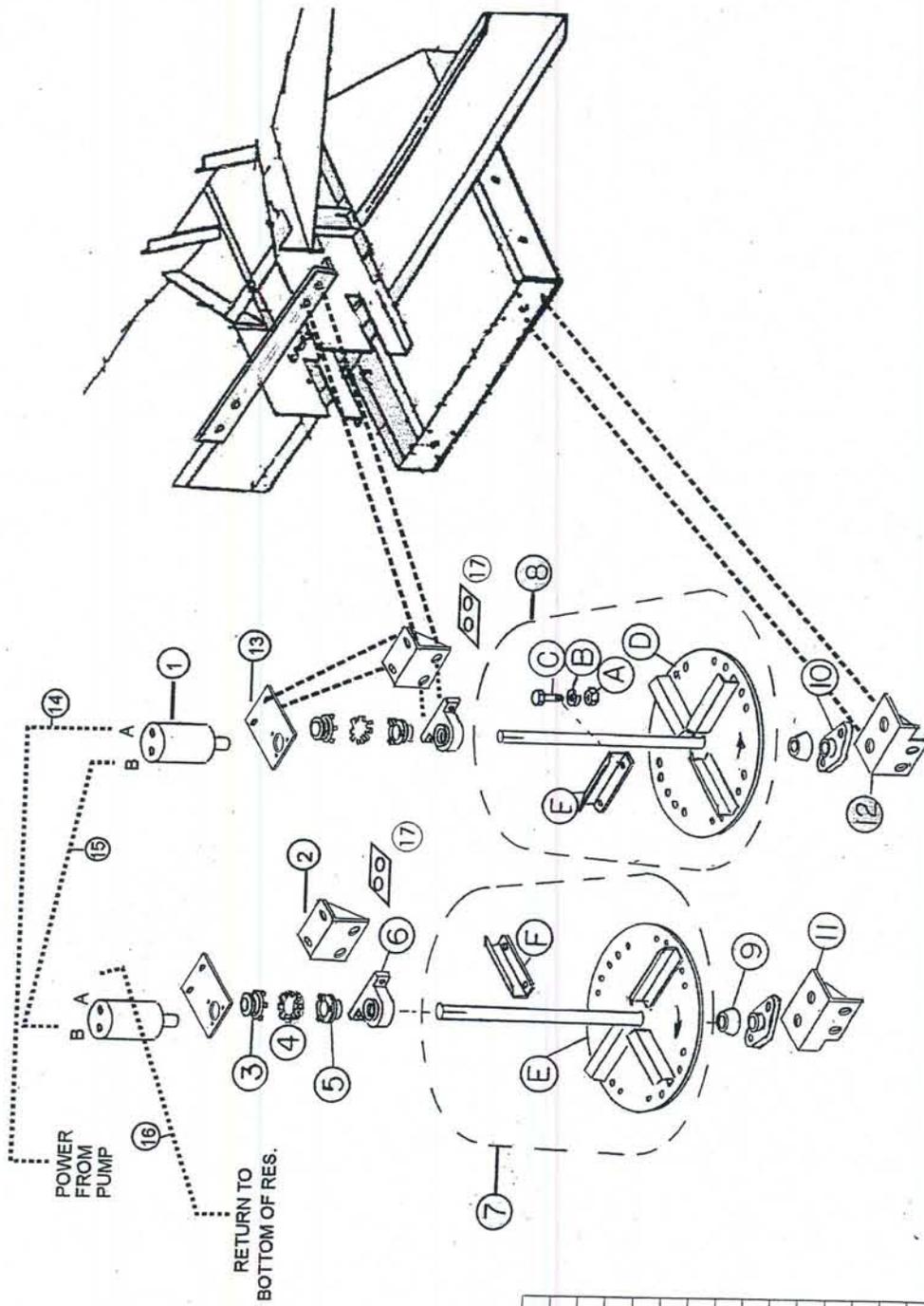
REAR AREA, AGHD, continued

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
43			
44	1008458	MOTOR MOUNT, DBL SPINNER	1
45	1008459	BRACKET, MOTOR MOUNT	1
46			
47	1001717	DISC CAP WELDMENT, RH	1
48	1003734	DISTR. DISC ASSEMBLY, RH	1
49	1003733	DISTR. DISC ASSEMBLY, LH	1
50	122017	HHCS, 5/16-18 X 1	4
51	1003727	DISTRIBUTOR DISC	1
52	1004466	KIT, DISTRIBUTOR BLADE	1
53	1003709	HUB, SPINNER	2
54	F9546	LOCKWASHER, 5/16	4
55	F9547	HEX NUT, 5/16	4
56	1001926	BLADE WELDMENT, RH, 5 1/2	1
57	1001924	BLADE WELDMENT, RH, 4 3/8	1
58	1001662	DISTR. BLADE, RH, 8"	1
59	1001718	DISTR. BLADE, RH, 7"	1
60	1001927	BLADE WELDMENT, LH, 5 1/2	1
61	1001719	DISTR. BLADE, LH, 7"	1
62	1001705	DISTR. BLADE, LH, 8"	1
63	1001925	BLADE WELDMENT, LH, 4 3/8	1
64	F100306	HHCS, 5/16-18 X 3/4	4
65	120393	FLAT WASHER, 5/16 AW	8
66	9413447	HEX NUT, LOCK, 5/16-18	2
67	1001380	PARTER PLATE	1
68	1000961	CHAIN IDLER WELDMENT	1
69	F101448	HHCS, 3/8-16 X 1 1/2	6
70	120382	LOCKWASHER, 3/8	26
71	120377	HEX NUT, 3/8-16	20
72	F17264	HHCS, 1/4-20 X 1	2
73	120380	LOCKWASHER, 1/4	5
74	120375	HEX NUT, 1/4-20	2
75	120233	HHCS, 3/8-16 x 1	22
76	F9669	FLAT WASHER, 3/8 AN	16
77	F15973	LOCKWASHER, 1/2	2
78	120390	FLAT WASHER, 1/2 AW	2
79	1008461	HHCS, 1/4-28 X 3/4	3
80	1008462	COUPLING, HALF, 5/8 BR	1
81	1008464	COUPLING, CHAIN, #60	1
82	1008463	COUPLING, HALF, 1" BR	1



DOUBLE SPINNER REAR AREA, AGHD 650 - 900

MOBILITY AGHD REAR AREA AS OF JANUARY 2001



ITEM	P/N	DESCRIPTION	QTY.
1	2001012	ORBIT MOTOR	2
2	2001013	TOP BRACKET	2
3	1008462	COUPLER HUB, 5/8" ID	2
4	1008464	CHAIN COUPLER, #60	2
5	1008463	COUPLER HUB, 1" ID	2
6	640511	BRG. PILLOW BLOCK, 1"	2
7	621162	LH SPINNER W/BLADES	1
8	621163	RH SPINNER W/BLADES	1
9	641296	DUST BOOT	2
10	640034	BRG. FLANGE, 1"	2
11	2001015	BRACKET, LH, LOWER	1
12	2001016	BRACKET, RH, LOWER	1
13	2001017	TOP ADJ. PLATE HYD. MOTOR	2
14	2001018	HYD. HOSE, PRESSURE SIDE	1
15	2001019	HYD. HOSE, IN SERIES	1
16	2001020	HYD. HOSE, RETURN SIDE	1
17	2001014	SPACER, 3/16 X 2-1/4 X 6 SS	2
A	150046	NUT, 3/8" SS	8
B	150248	LOCKWASHER, 3/8" SS	8
C	151834	BOLT, 3/8 X 3/4" SS	8
D	620536	RH SPINNER LESS BLADES	1
E	620537	LH SPINNER LESS BLADES	1

5/8/02

- 75 A -



## CONVEYOR CLUTCH ASSMY. & AGHD LOCKOUT HUB



FILL SPOUT FOR HYDRAULIC OIL. FILL TO LINE PER DECAL WITH DEXTRON III ATF.



FILL HOLE FOR TRANSMISSION – USE 30-40 WT OIL APPROXIAMATELY 2” OFF BOTTOM.



HYDRAULIC VALVE – “DON’T TURN”

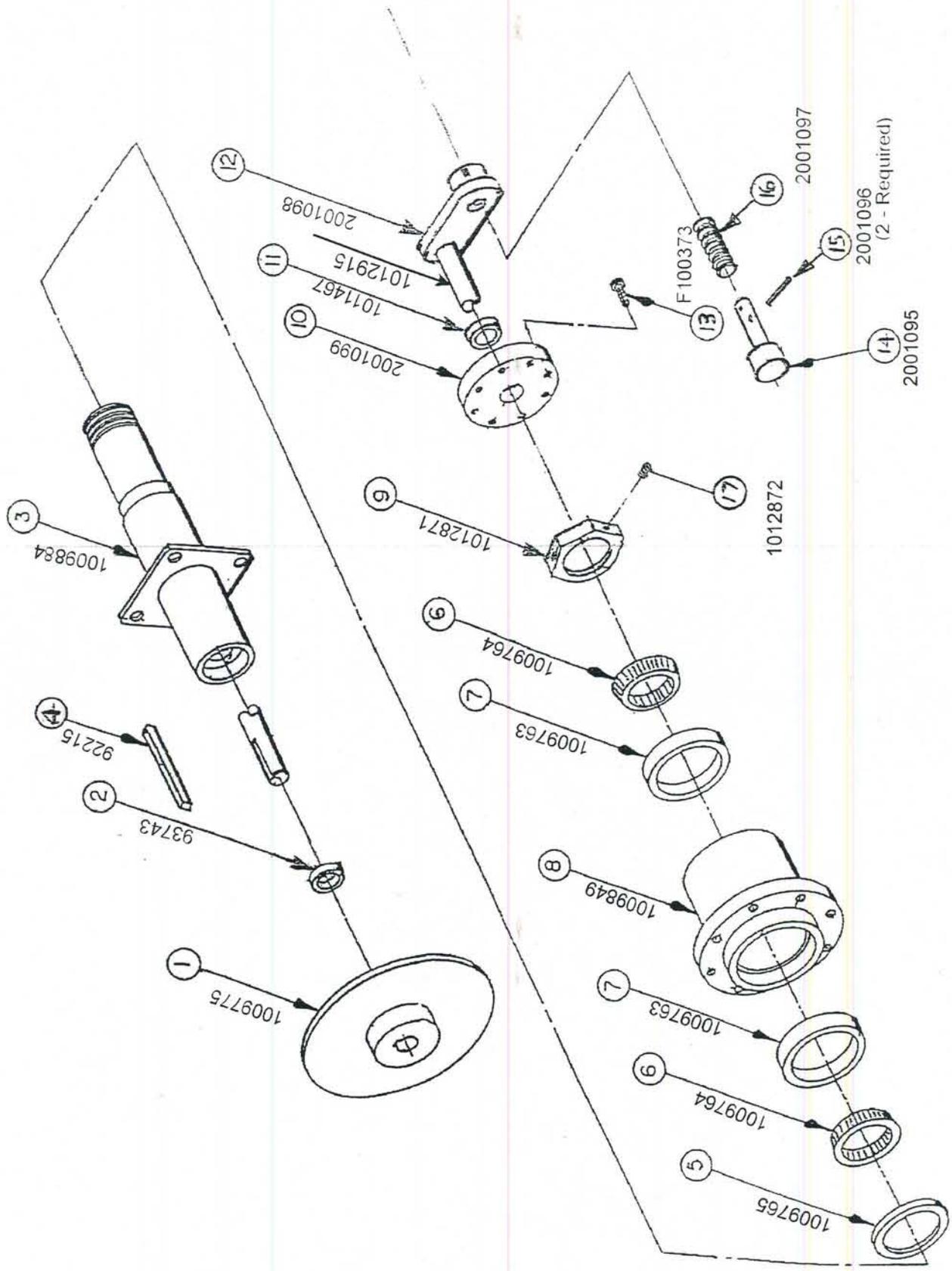


HUB LOCK-OUT PIN – SHOWN IN LOCKOUT POSITION.



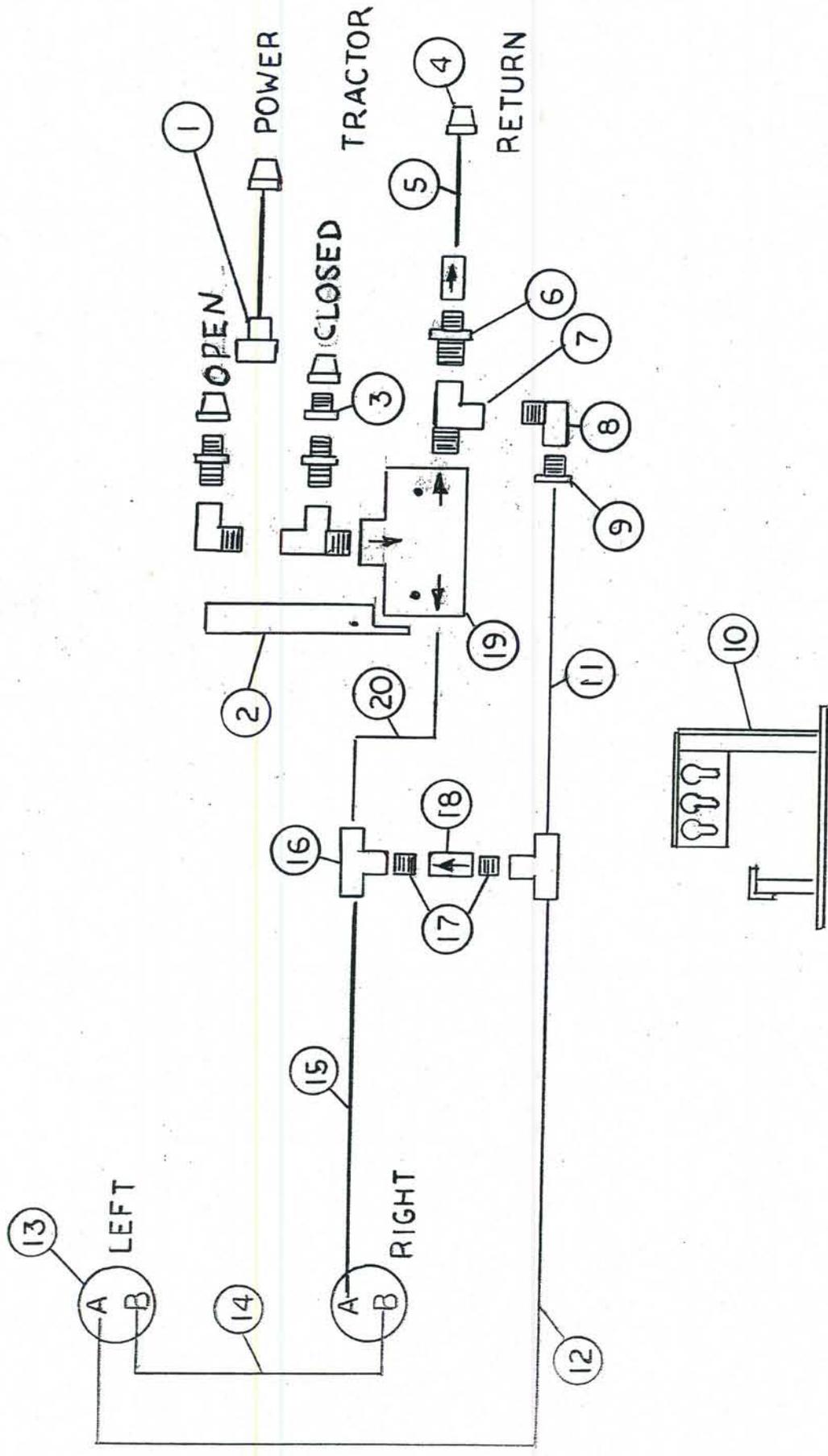
TO ENGAGE – PULL PIN OUT & TURN 90 DEGREE TO LONG SLOT – AS SHOWN.

**\*\* DO NOT TRANSPORT ENGAGED – WILL VOID WARRANTY. POSSIBLE PUMP DAMAGE CAN OCCUR!!!**



LIVE AXLE GROUND DRIVE, MOB600, 650 & 900 AGHD  
5/20/04

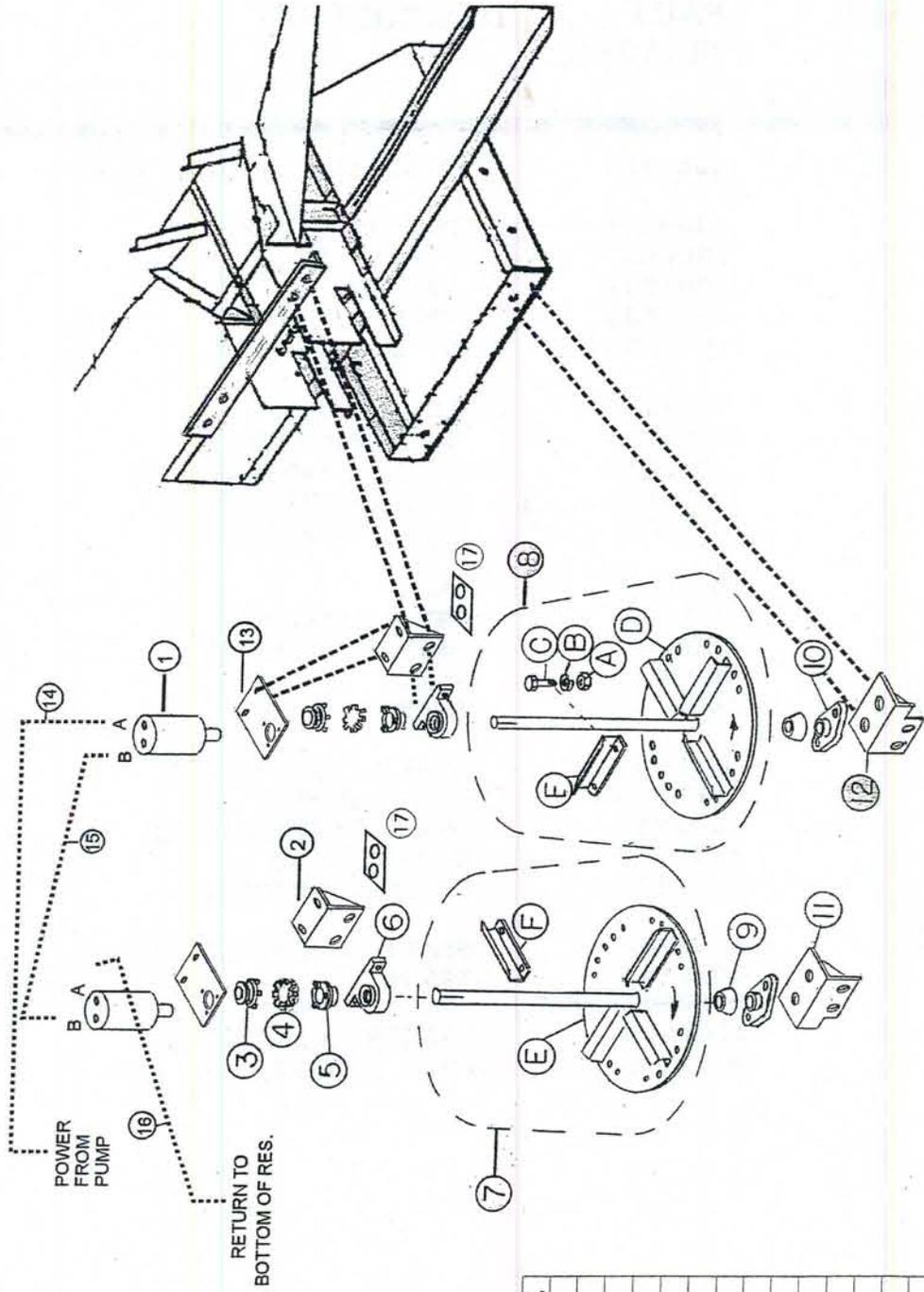




TRACTOR HYDRAULIC DRIVEN SPINNERS - AFTER APRIL 2006

ITEM	PART NO.	DESCRIPTION	QTY.
1	4000-4	HYDRAULIC FEMALE COUPLING	1
2		DECAL PLATE	1
3		06 RESTRICTOR	1
4	8010-4	MALE TIP	2
5	90" X 3/8"	HYD. HOSE WITH (2) 6G8MP	2
6	5404-12-8	CLOSE NIPPLE	3
7	5602-12	FEMALE, FEMALE, MALE TEE	2
8	5502-12	STREET ELBOW	2
9	5406-1-8	RED. BUSHING, 3/4-1/2	1
10		WELDMENT MOUNTING BRACKET	1
11	18" X 3/8"	HYD. HOSE WITH (2) 6G8MP	1
12	180" X 3/8"	HYD. HOSE WITH (1) 6G8MP & (1) 6G4MB	1
13	1008642	HYDRAULIC MOTOR	2
14	36" X 3/8"	HYD. HOSE WITH (2) 6G4MB	1
15	144" X 3/8"	HYD. HOSE WITH (1) 6G4MB	1
16	1603-8-8	TEE SWIVEL	2
17	5404-8-8	CLOSE NIPPLE, 1/2	2
18	PMR10	CHECK VALVE	2
19	BG350	HYD. VALVE, 3/4	1
20	14" X 3/8"	HYD. HOSE WITH (1) 6G8MP & (1) 6G6MP	1

MOBILITY AGHD REAR AREA AS OF JANUARY 2001

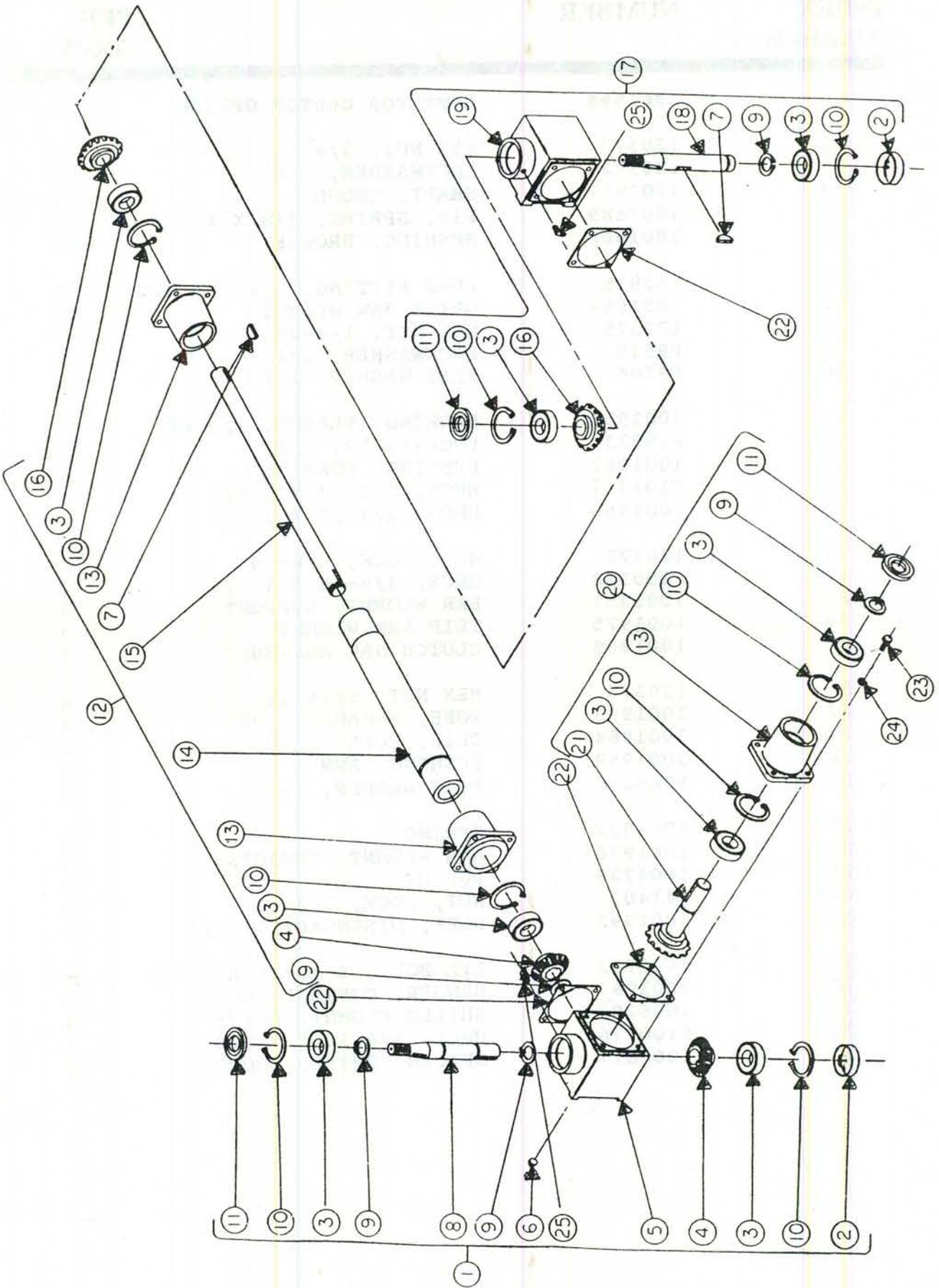


ITEM	P/N	DESCRIPTION	QTY.
1	2001012	ORBIT MOTOR	2
2	2001013	TOP BRACKET	2
3	1008462	COUPLER HUB, 5/8" ID	2
4	1008464	CHAIN COUPLER, #60	2
5	1008463	COUPLER HUB, 1" ID	2
6	640511	BRG. PILLOW BLOCK, 1"	2
7	621162	LH SPINNER W/BLADES	1
8	621163	RH SPINNER W/BLADES	1
9	641296	DUST BOOT	2
10	640034	BRG. FLANGE, 1"	2
11	2001015	BRACKET, LH, LOWER	1
12	2001016	BRACKET, RH, LOWER	1
13	2001017	TOP ADJ. PLATE HYD. MOTOR2	
14	2001018	HYD. HOSE, PRESSURE SIDE 1	
15	2001019	HYD. HOSE, IN SERIES 1	
16	2001020	HYD. HOSE, RETURN SIDE 1	
17	2001014	SPACER, 3/16 X 2-1/4 X 6 SS	2
A	150046	NUT, 3/8" SS	8
B	150248	LOCKWASHER, 3/8" SS	8
C	151834	BOLT, 3/8 X 3/4" SS	8
D	620536	RH SPINNER LESS BLADES	1
E	620537	LH SPINNER LESS BLADES	1
F	635917	blade	8

5/8/02

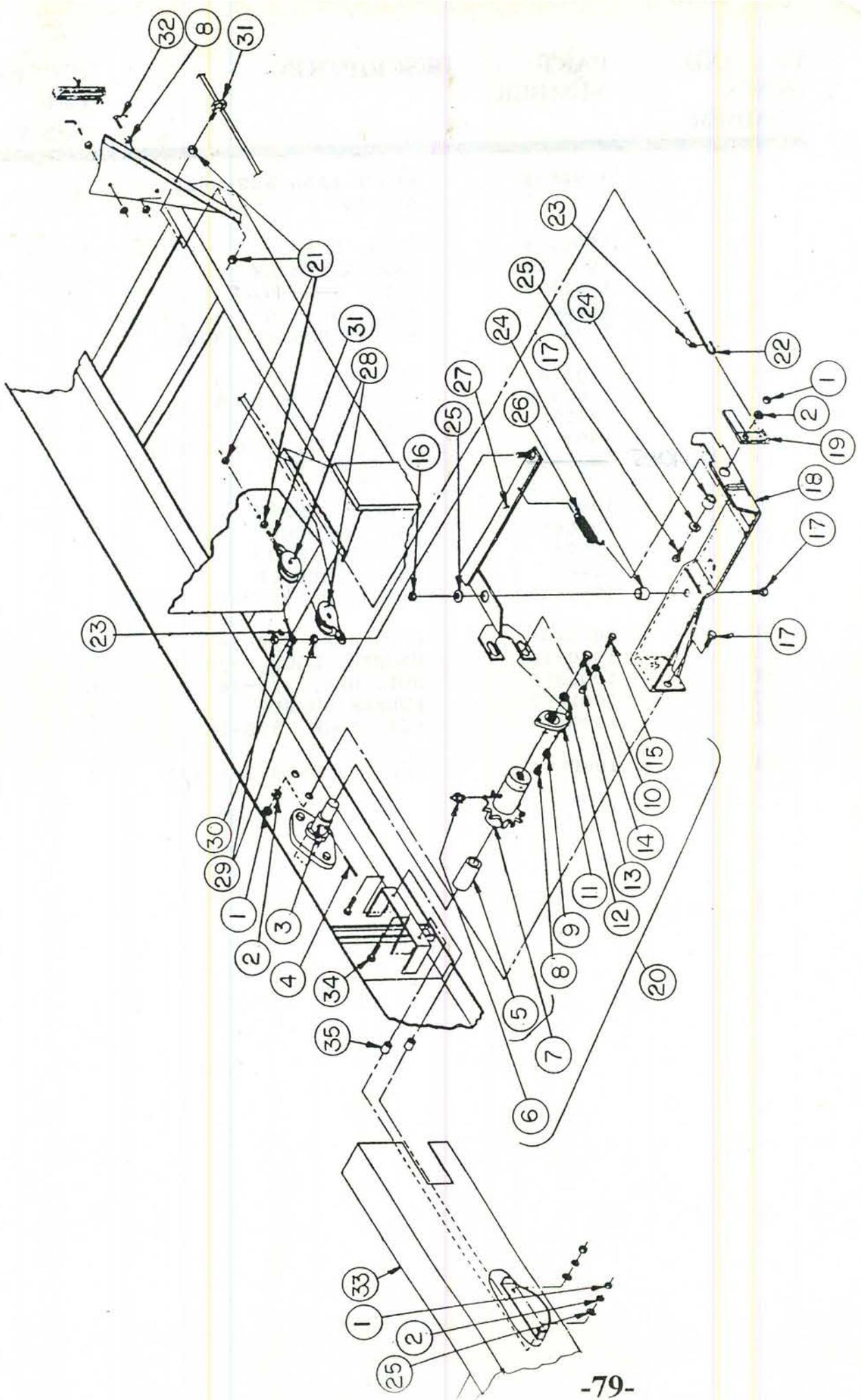
- 75 A -

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1003737	DISTRIBUTOR GEAR BOX	
1	1003735	BOX ASSEMBLY, RH	1
2	1000938	PLUG, SOFT	2
3	1000932	BEARING	8
4	1002426	GEAR, 4TH	2
5	1000936	HOUSING, RH	1
6	1006856	PLUG, OIL	2
7	1000935	KEY, WOODRUFF	2
8	1003730	SHAFT, TAPERED, RH	1
9	1000933	RING, RETAINER	5
10	1000931	RING, RETAINER	8
11	1000930	SEAL	3
12	1001206	TUBE ASSEMBLY	1
13	1000944	BARREL HOUSING	3
14	1000941	TUBE	1
15	1002417	SHAFT	1
16	1000945	GEAR, PINION 17th	2
17	1003736	BOX ASSEMBLY, LH	1
18	1003731	SHAFT, TAPERED, LH	1
19	1000947	HOUSING, LH	1
20	1001205	BARREL ASSEMBLY	1
21	1000948	SHAFT & GEAR ASSEMBLY	1
22	1000940	GASKET	REF
23	<del>1000306</del> 1000834	HHCS, 5/16-18 X 3/4 SS	12
24	1000836	WASHER, LOCK, 5/16	12
25	1003742	LUBE FITTING, 45 DEG	2



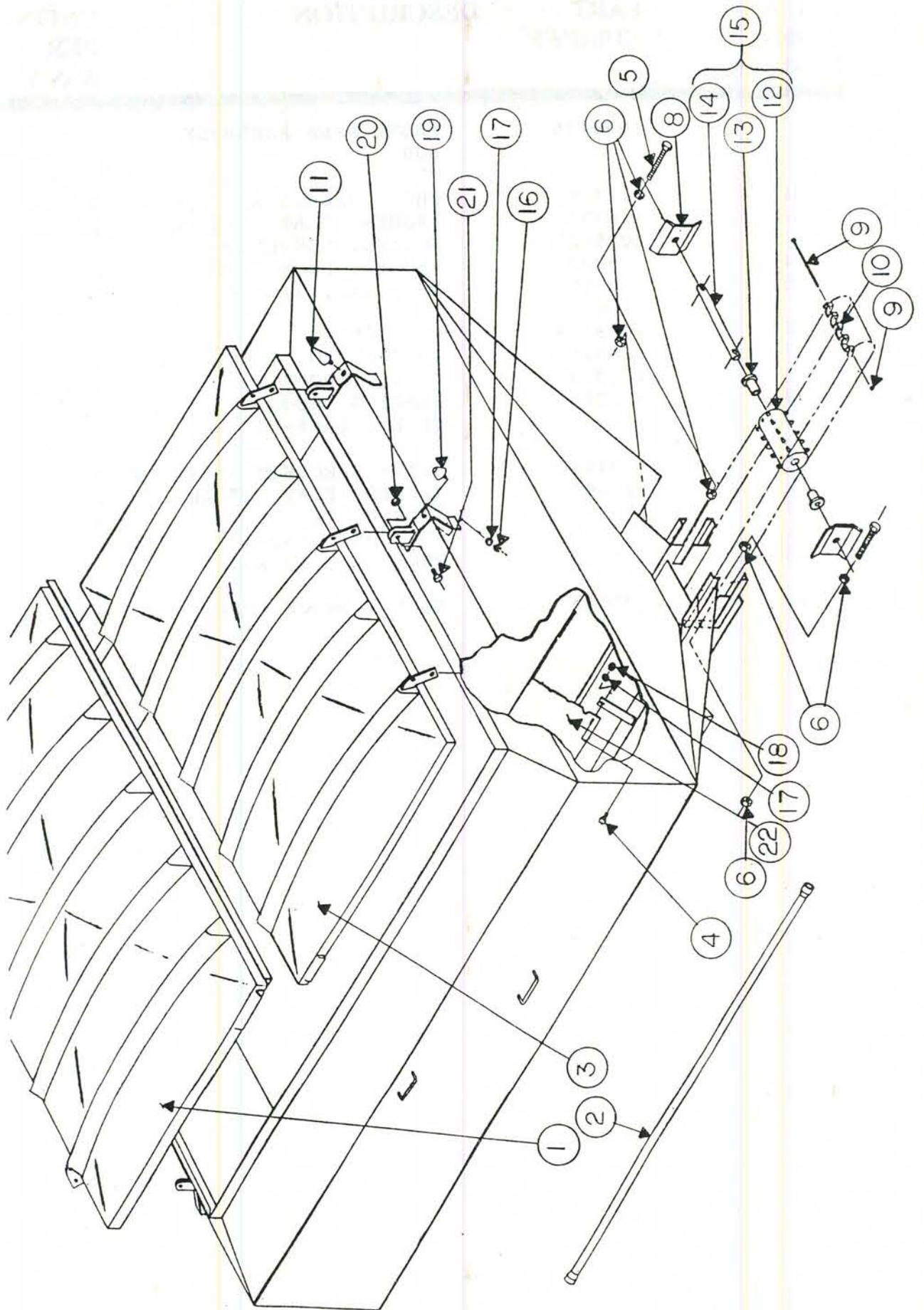
DISTRIBUTOR GEAR BOX

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1001995	CONVEYOR CLUTCH OPTION	
1	120377	HEX NUT, 3/8-16	5
2	120382	LOCKWASHER, 3/8	5
3	1001967	SHAFT, CROSS	1
4	1001689	PIN, SPRING, 3/8 X 1 3/4	1
5	1001960	BUSHING, BRONZE	1
6	152915	LUBE FITTING, 1/4-28, STR.	1
7	1001954	DRIVE JAW WLDMNT	1
8	120375	HEX NUT, 1/4-20	6
9	F9535	LOCKWASHER, 1/4	2
10	F9704	FLAT WASHER, 1/4	2
11	1001959	BEARING, FLANGE, 1/2 BR	1
12	F15973	LOCKWASHER, 1/2	1
13	1001957	BUSHING, FORK	2
14	F101937	HHCS, 1/2-13 X 1 1/2	2
15	1001850	HHCS, 1/4-20 X 1 1/2	2
16	120377	NUT, LOCK, 3/8-16	1
17	F100312	HHCS, 3/8-16 X 1 1/4	2
18	1001981	BAR WLDMNT, SUPPORT	1
19	1001975	TRIP ARM WLDMNT	1
20	1001969	CLUTCH JAW ASSEMBLY	1
21	120376	HEX NUT, 5/16-18	4
22	1001993	ROPE, ENGAGING, 20'	1
23	1001984	CLIP, ROPE	2
24	1001958	BUSHING, ARM	2
25	F9669	FLAT WASHER, 3/8	4
26	1001522	SPRING	1
27	1001978	ARM WLDMNT, ENGAGING	1
28	1004326	PULLEY	2
29	9414074	NUT, LOCK, 1/2-13	2
30	1001992	ROPE, DISENGAGING, 22'	1
31	1001982	EYE BOLT, 5/16-18 X 2 1/2	2
32	1001983	HANGER, CONTROL ROPE	2
33	1006283	SHIELD WLDMNT, DRIVE	1
34	F100376	HHCS, 3/8-16 X 1 3/4	2
35	1006817	SPACER, SHIELD MOUNT	2



CONVEYOR CLUTCH OPTION

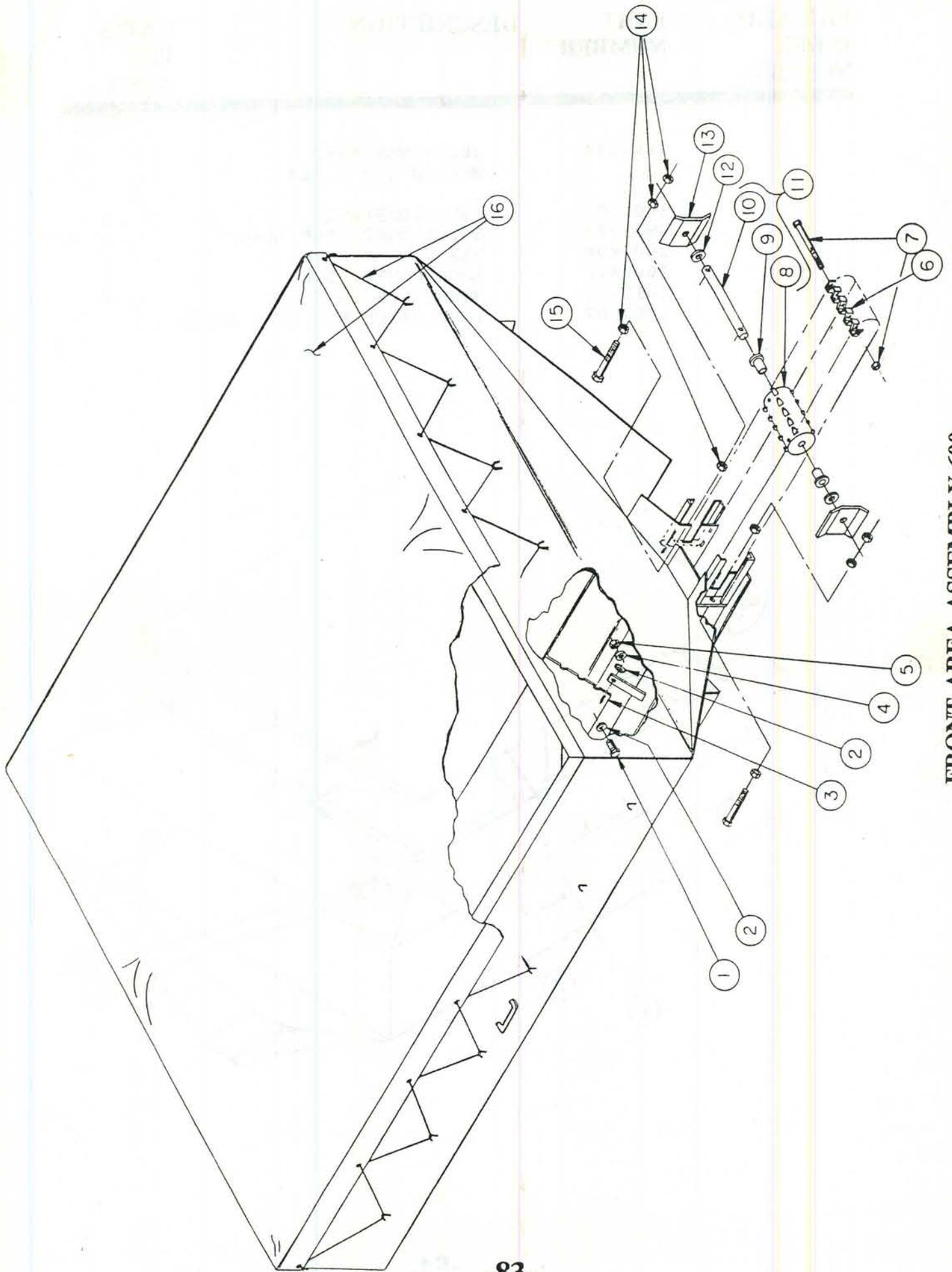
FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1002848	FRONT AREA ASSEMBLY 650-900	
1	1001479	DOOR, REAR	REF
2	1001295	WAND ASSEMBLY	REF
3	1001478	DOOR, REAR <i>Front</i>	REF
4	1000803	HHCS, 3/8-16 X 1 1/4	8
5	1000665	ROD ASSEMBLY, SHORT	2
6	120378	NUT, HEX, 1/2-13	8
7	1002856	SHIELD, CONVEYOR	1
8	12399	SIDE PLATE	2
9	1000956	PIN & NUT, CONNECTING	1
10	<i>1004085</i> <del>1000799</del>	DRAG CHAIN	1
11	1000798	RUBBER BUMPER	4
12	1000684	CAST SPROCKET	1
13	90696	BEARING, WOOD	2
14	12400	SHFT, TAKE-UP	1
15	1004816	SPROCKET ASSEMBLY, DRIVE	1
16	1000808	NUT, HEX, 3/8-24	6
17	1000810	WASHER, LOCK, 3/8	14
18	1000809	NUT, HEX, 3/8-16	8
19	1001467	RUBBER BUMPER	2
20	1001588	NUT, LOCK, 3/8-16	6
21	1000804	HHCS, 3/8-16 X 1 1/2	6



FRONT AREA ASSEMBLY 650 - 900

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
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	1008446	FRONT AREA ASSEMBLY 600	
1	122145	HHCS, 3/8-16 X 1 1/4	8
2	120394	WASHER, FLAT, 3/8, AN	16
3	1008425	SHIELD, CONVEYOR	1
4	120382	WASHER, LOCK, 3/8	8
5	120377	NUT, HEX, 3/8-16	8
6	1008449	DRAG CHAIN	1
7	1000956	SPLICE PIN, CONVEYOR	1
8	1000684	CAST, SPROCKET	1
9	90696	BEARING, WOOD	2
10	12400	SHAFT, TAKE-UP	1
11	1004816	DRIVE SPROCKET ASSEMBLY	1
12	131002	WASHER, FLAT, 1" AW	2
13	12399	SIDE PLATE	2
14	120378	NUT, HEX, 1/2-13	8
15	1000665	HHCS, 1/2-13 X 7	2
16	1008453	TARP & SHOCK CORD	1



FRONT AREA ASSEMBLY 600

FIG. AND  
INDEX  
NUMBER

PART  
NUMBER

DESCRIPTION

UNITS  
PER  
ASS'Y

FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
	1002134	TUCK-AWAY TARP MODELS 650 & 900	
1	1001005	TARP COMPLETE	1
2	NW32272	SHOCK CORD, 20" LONG	3
3	1000809	HEX NUT, 3/8-16	3
4	1000810	LOCKWASHER, 3/8	3
5	1010178	HHCS, 3/8-16 X 2	3
	1009007	TARP PATCH KIT, NOT SHOWN	3

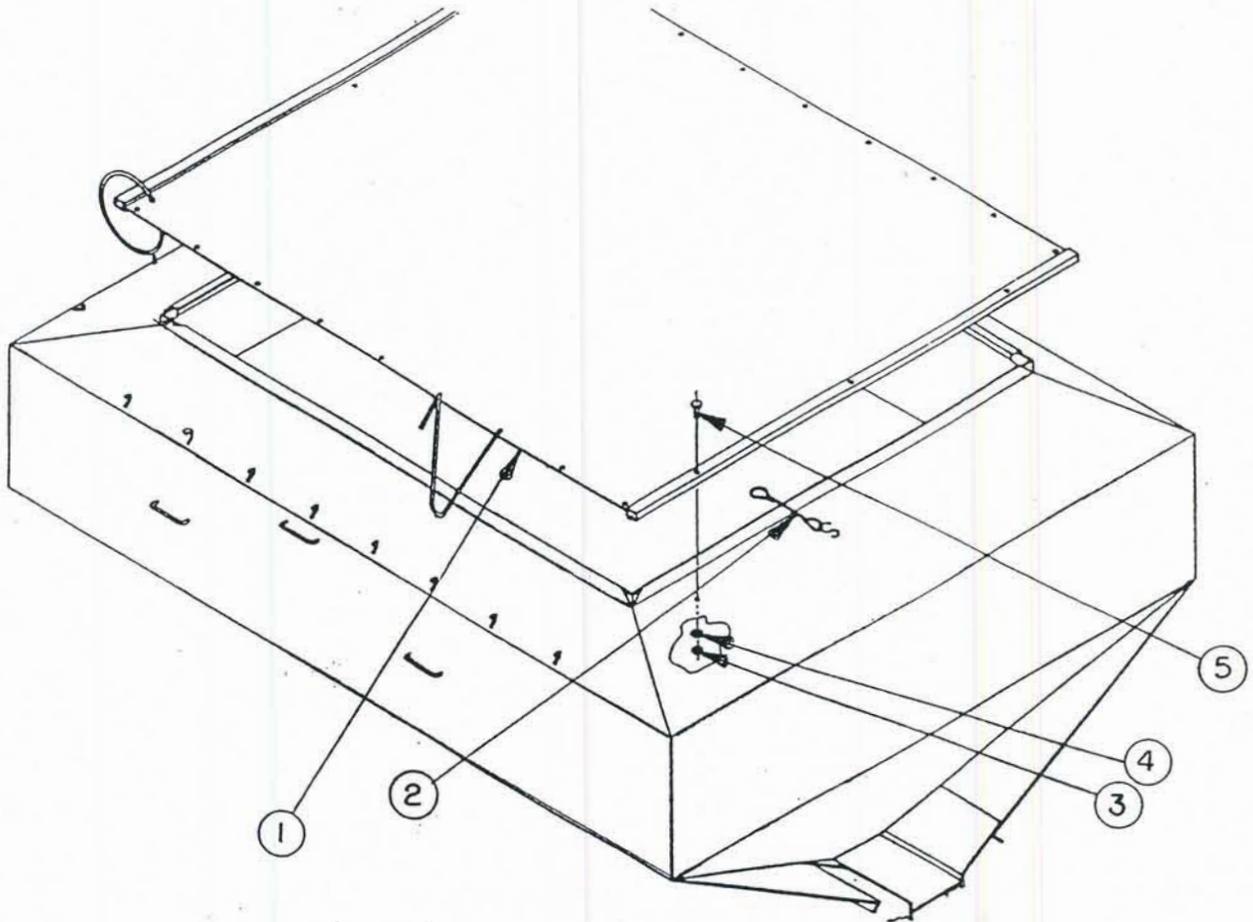
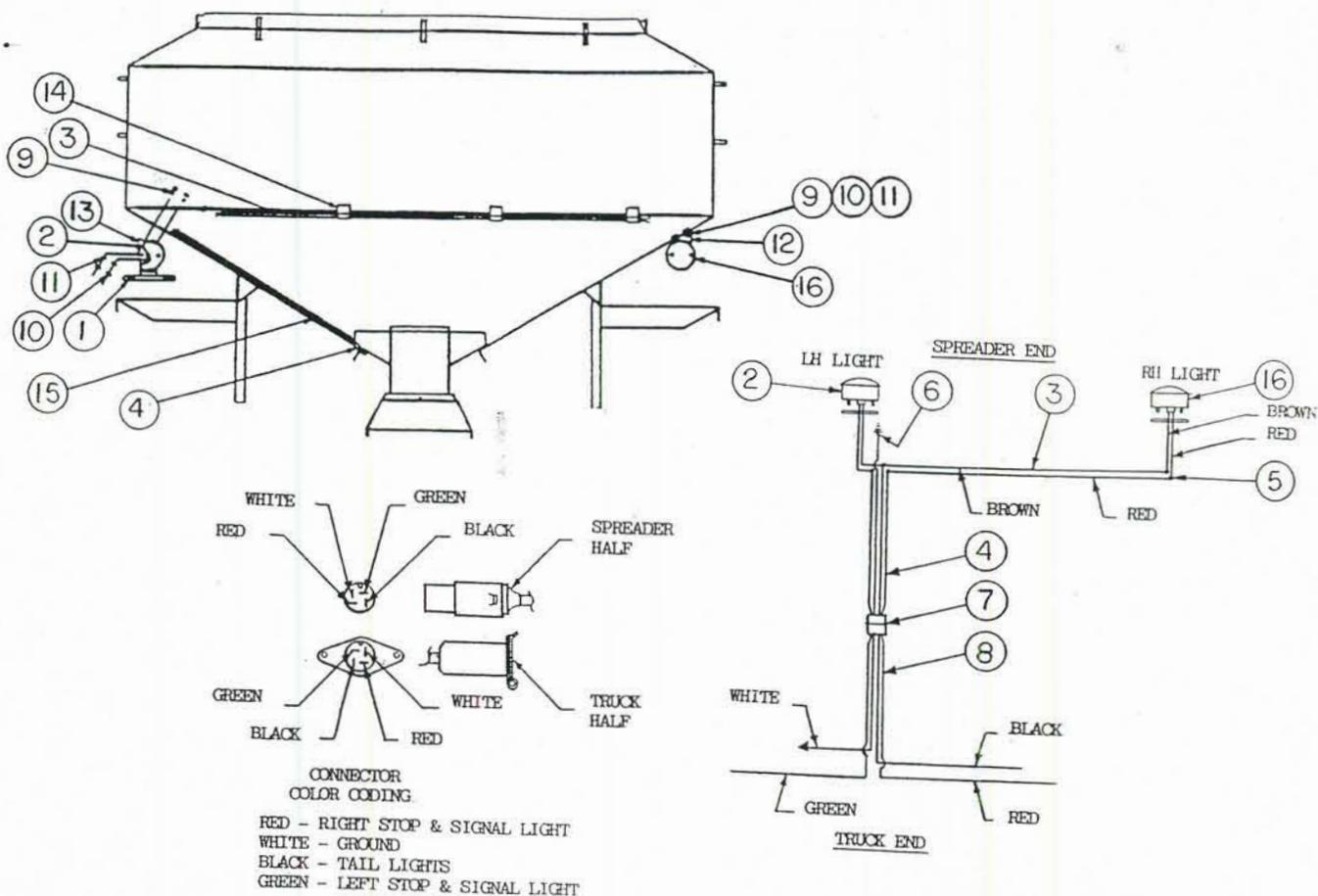


FIG. AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
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	1010233	KIT, LIGHT	
1	1004907	BRACKET, UNIVERSAL LICENSE	1
2	1004908	STOP & TAIL LIGHT	
		W/LICENSE WINDOW	1
3	1010229	WIRE, 7' 6"	1
4	1010252	WIRE LEAD, 20'	1
5	1010054	CONNECTOR	5
6	1010055	CLIP	1
7	1010047	CONNECTOR, BOTH HALVES	1
8	1010048	WIRE LEAD, 3'	1
9	1000834	HHCS, 5/16-18 X 3/4	4
10	1000835	HEX NUT, 5/16-18	4
11	1000836	LOCKWASHER, 5/16	4
12	1010234	LIGHT HOLDER, RH	1
13	1010235	LIGHT HOLDER, LH	1
14	1010237	WIRE HOLDER, 1 & 2 COND.	4
15	1010251	WIRE HOLDER, 3 & 4 COND.	13
16	1004909	STOP & TAIL LIGHT	1



# DECAL SET - MOBILITY

1000528 - 5 TON  
 1008931 - 6 TON  
 1001941 - 6-1/2 TON

641415 - MAINTENANCE INSTRUCTIONS

16 ORANGE REFLECTOR

16 ORANGE REFLECTOR

13 140959 - BE CAREFUL

FRONT VIEW

\* NOTES for NO. 11:

1. With a 3/4" block between gate & drag chain, lower gate until block is tight. Locate decal so the pointer arm is pointing at the 1" measurement.
2. Bend pointer arm so the tip touches decal lightly.

NOTE for NO. 3: Locate on opposite side centered.

NOTE for NO. 4: Place logo 6" from front corner. & place MODEL # decal 6" for logo. Bottom of logo 3-1/2" above tank bend.

5 1002249 - LOAD RATING 12,000  
 1002215 - LOAD RATING 16,000  
 1002216 - LOAD RATING 24,000

91284 - WARNING W/O SHIELDS  
 MOVING PARTS CAN CRUSH

6 641702 - PTO



17 YELLOW REFLECTOR

17 YELLOW REFLECTOR

BACK VIEW

1000508 - SPREAD CHART (HI)  
 "OR"  
 1001118 - SPREAD CHART (LO)

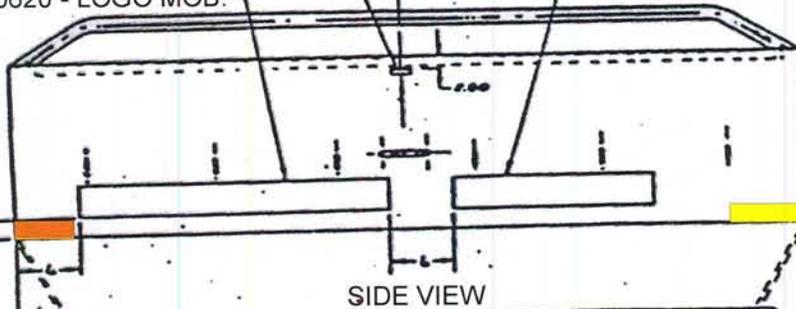
11 1000529 - METER CHART

9 (DONOT USE)

7 1000767 - HAND WARNING - HARD TOP ONLY

1008493 - MODEL 500 DECAL  
 1008494 - MODEL 600 DECAL  
 90622 - MODEL 650 DECAL

4 90620 - LOGO MOB.

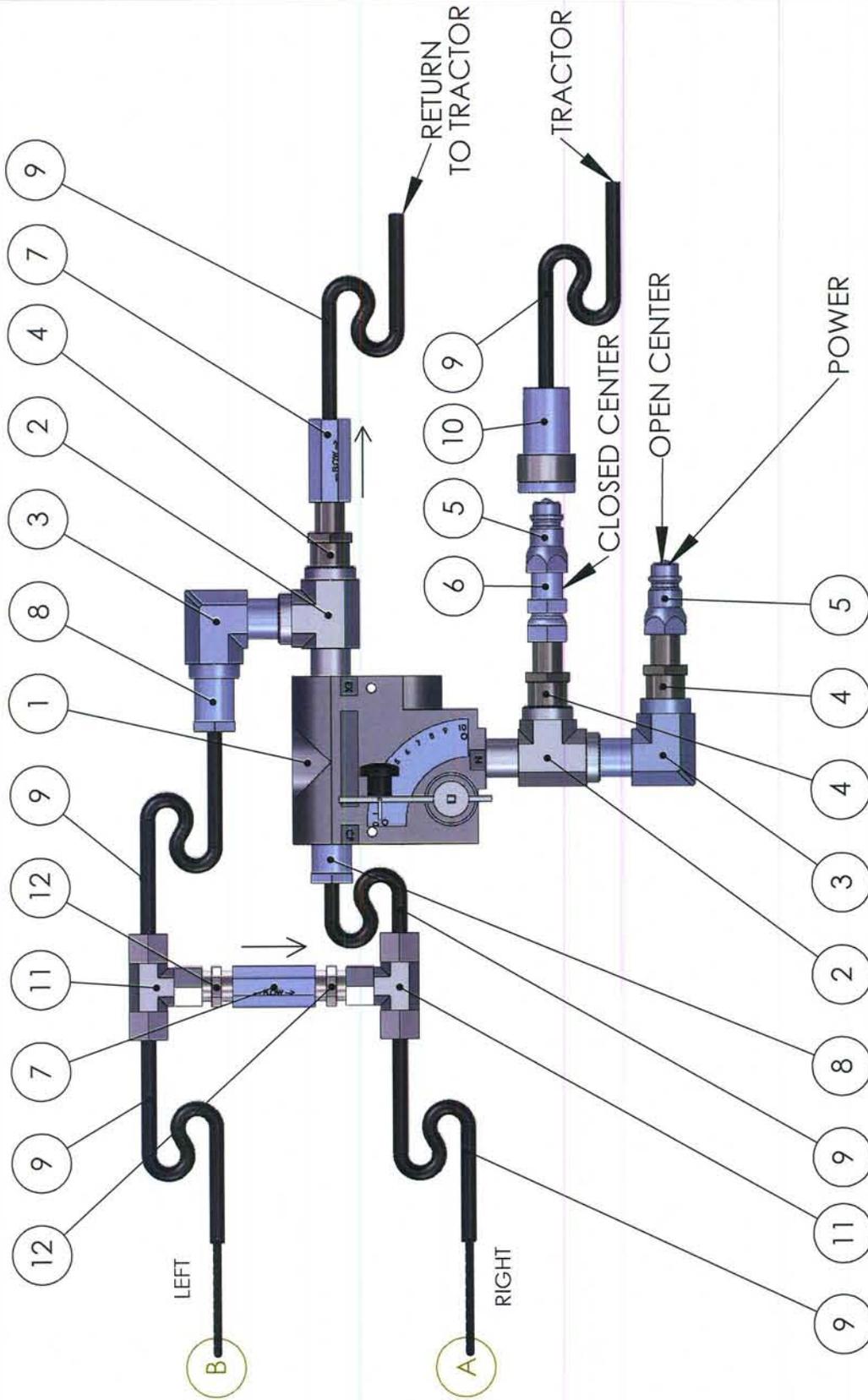


16 ORANGE REFLECTOR

17 YELLOW REFLECTOR

SIDE VIEW

8 1000768 - GR. DRIVE WARNING - DURING TRANSPORT DISENGAGE



**CMC/DALTON AG**  
 602 E. VAN BUREN ST., LENOX, IA 50851

TITLE:  
 TRACTOR HYDRAULIC DRIVEN SPINNERS  
 AFTER APRIL 2006, GEARBOX DRIVE

SIZE DWG. NO. REV  
**A** **A**

SCALE: 1:4 SHEET 1 OF 2

NAME	DATE
RICH SMOTHERS	12/30/08

UNLESS OTHERWISE SPECIFIED:	
DRAWN	CHECKED
ENG APPR.	MFG APPR.
G.A.	
COMMENTS:	

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL: ±  
 ANGULAR: MACH ± BEND ±  
 TWO PLACE DECIMAL ±  
 THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:  
 MATERIAL: STEEL  
 FINISH

DO NOT SCALE DRAWING

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ITEM NO.	PART NUMBER	QTY.
1	FC51-3 4, HYDRAULIC REGULATOR	1
2	5602-12 T COUPLER, F-F-M, .75 INCH NPT	2
3	5502-12 ST ELBOW, 90 DEGREE, .5 INCH	2
4	540412-8, 2 INCH ADAPTER, .5INCH-.75 INCH NPT	3
5	8010-4 PIONEER FITTING, .5 INCH	2
6	641679 RESTRICTOR, .06, .5 INCH NPT	1
7	PMR10 CHECK VALVE, .5 INCH NPT	2
8	140412-8 ADAPTER, .5-.75 INCH NPT	2
9	HOSE, .375 INCH	6
10	4050-12 PIONEER FITTING, FEMALE, .5 INCH NPT	1
11	1603-8-8 T COUPLER, .5 INCH NPT	2
12	5404-8, 2 INCH NIPPLE, .5INCH NPT	2

**CMC/DALTON AG**  
602 E. VAN BUREN ST., LENOX, IA 50851

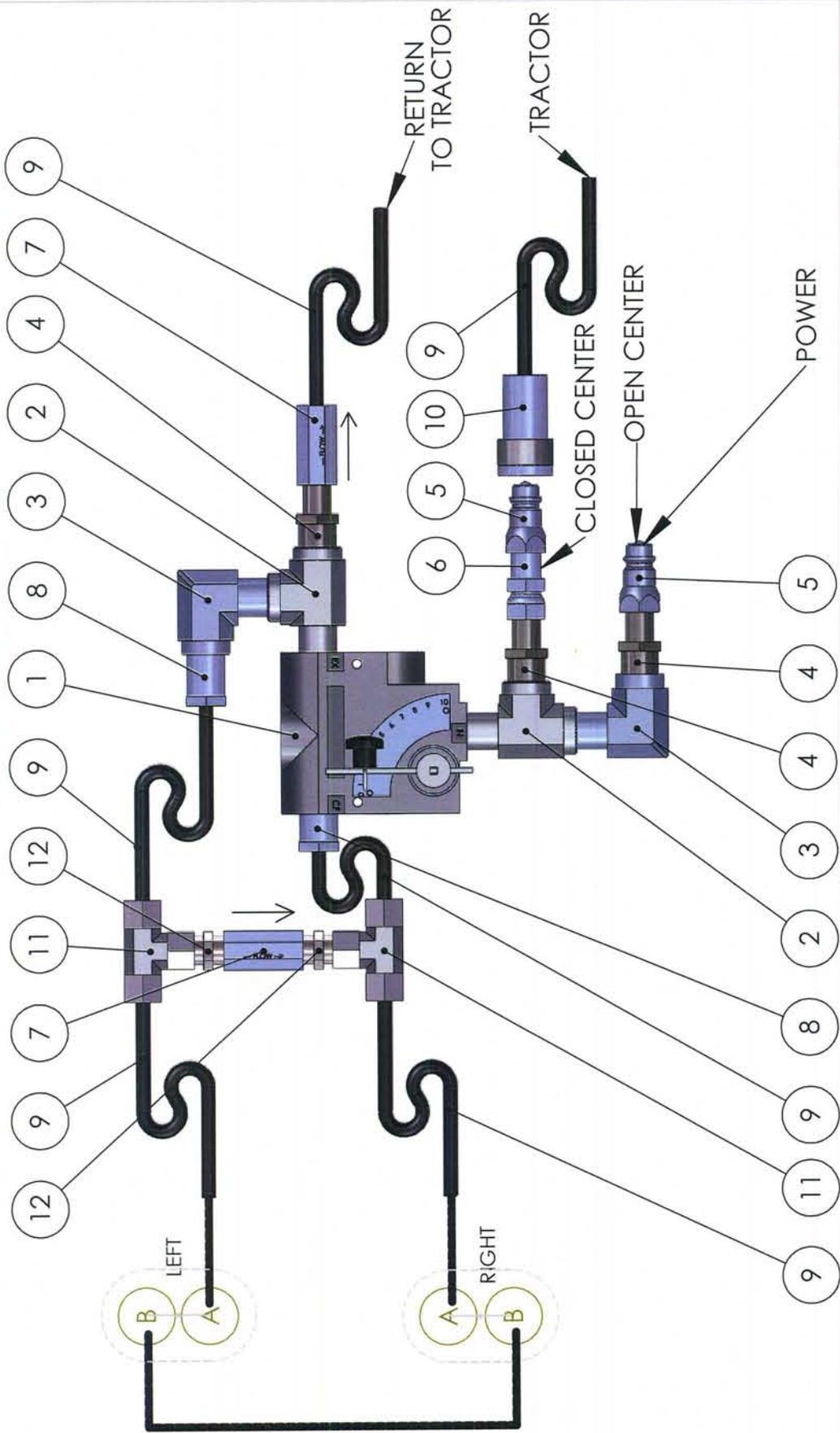
TITLE:  
TRACTOR HYDRAULIC DRIVEN SPINNERS  
AFTER APRIL 2006

SIZE DWG. NO. REV  
**A** **A** **A**

SCALE: 1:4 SHEET 2 OF 2

UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DIMENSIONS ARE IN INCHES	RICH SMOTHERS	12/30/08
TOLERANCES:		
FRACTIONAL ±		
ANGULAR: MACH ± BEND ±		
TWO PLACE DECIMAL ±		
THREE PLACE DECIMAL ±		
INTERPRET GEOMETRIC TOLERANCING PER:		
MATERIAL		
FINISH		
DO NOT SCALE DRAWING		

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<b>CMC/DALTON AG</b> 602 E. VAN BUREN ST., LENOX, IA 50851		DATE	12/30/08
NAME	RICH SMOTHERS	DRAWN	CHECKED
TITLE:		ENG APPR.	MFG APPR.
TRACTOR HYDRAULIC DRIVEN SPINNERS AFTER APRIL 2006, MOTOR DRIVE		Q.A.	COMMENTS:
SIZE	DWG. NO.	REV	
A		A	
SCALE: 1:4	SHEET 1 OF 2		

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL: ±  
 ANGULAR: MACH: ± BEND ±  
 TWO PLACE DECIMAL ±  
 THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:  
 MATERIAL: STEEL  
 FINISH:

DO NOT SCALE DRAWING

**PROPRIETARY AND CONFIDENTIAL**  
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1	FC51-3 4, HYDRAULIC REGULATOR	1
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6	641679 RESTRICTOR, .06, .5 INCH NPT	1
7	PMR10 CHECK VALVE, .5 INCH NPT	2
8	140412-8 ADAPTER, .5-.75 INCH NPT	2
9	HOSE, .375 INCH	6
10	4050-12 PIONEER FITTING, FEMALE, .5 INCH NPT	1
11	1603-8-8 T COUPLER, .5 INCH NPT	2
12	5404-8, 2 INCH NIPPLE, .5INCH NPT	2

<b>CMC/DALTON AG</b> 602 E. VAN BUREN ST., LENOX, IA 50851		TITLE: TRACTOR HYDRAULIC DRIVEN SPINNERS AFTER APRIL 2006	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		DRAWN RICH SMOTHERS	DATE 12/30/08
INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL STEEL FINISH		CHECKED ENG APPR. MFG APPR. Q.A. COMMENTS:	SIZE DWG. NO. REV <b>A</b> <b>A</b> <b>A</b>
DO NOT SCALE DRAWING		SCALE: 1:4 SHEET 2 OF 2	

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602 E. VAN BUREN  
PO BOX 70  
LENOX, IA. 50851  
www.daltonagproducts.com



PH: 641-333-4518  
FAX: 641-333-4429  
800-342-7498  
daltonag@frontiernet.net

### LIMITED WARRANTY

Cox Manufacturing Company dba Dalton Ag Products warrants all products, including all equipment and accessories, manufactured by CMC - Dalton Ag Products to be free from defects in material and workmanship if the product is operated and serviced according to the manufacturer's instruction manual. This warranty shall remain effective for twelve months from the date of delivery to the original purchaser.

CMC - Dalton Ag Products obligation under this warranty is limited to the repair or replacement of parts (not including labor) which have been returned to CMC - Dalton Ag Products factory freight prepaid, and after inspection, are deemed by CMC - Dalton Ag Products to be defective. In no event shall CMC - Dalton Ag Products be liable for special or consequential damages except as may be approved by CMC - Dalton Ag Products in advance in writing. This warranty shall not apply to components parts which are not manufactured by CMC - Dalton Ag Products. Neither shall this warranty apply to any parts or components which are expendable and are expected to wear out in normal service during the course of this warranty.

The provisions of this warranty shall not apply to any CMC - Dalton Ag Products product which has been subject to misuse, negligence, alteration or accident, or which shall have been repaired in any way so as, in the reasonable judgment of CMC - Dalton Ag Products to affect adversely its performance and reliability.

This warranty is expressly in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations for liability on the part of CMC - Dalton Ag Products and CMC - Dalton Ag Products neither assumes nor authorizes any other person to assume for it any other liability in connection with such products.

### COMPANY POLICY

1. Specify catalog numbers, sizes and all other information necessary to properly fill the order.
2. Check merchandise immediately upon receipt. If received in bad condition or there is a shortage of bundles or boxes, do not fail to note this fact on the carrier promptly. Shortages must be reported within fifteen days.
3. Returned goods will not be accepted without our consent. All returned merchandise is subject to 10% restocking charge.
4. Goods returned for credit must be prepaid and accompanied by CMC - Dalton Ag bill of lading or letter of explanation giving order numbers, invoice number, date purchased and reason for returning merchandise. If error is made by CMC - Dalton Ag, we will accept merchandise freight collect if returned by lowest transportation cost. Goods must be returned within sixty days after purchase.
5. Our warranty does not cover the use of chemicals harmful to equipment of the operator. It does cover defective material or workmanship, and is limited to value of material only.
6. Cutting or welding on merchandise without our approval voids the warranty.
7. Special orders require deposits and are not subject to cancellation without our consent.