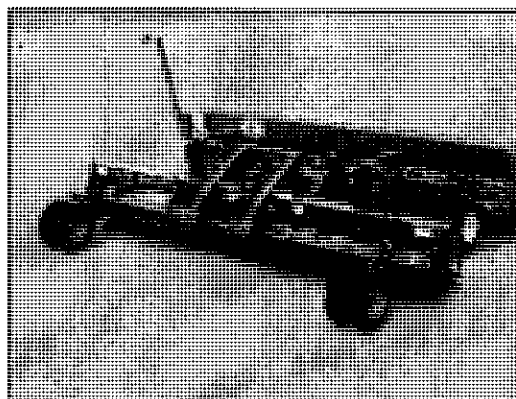
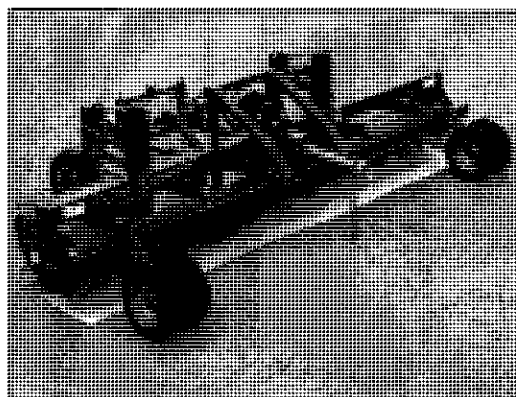




Eversman by Art's-Way Preseeder



Operator's & Parts Manual

Models PS180, PS216, PS240, PS288, And PS300 (PS10-30)

Art's-Way Manufacturing Co., Inc.

352800
2/98

To The Owner

Congratulations on the purchase of your new Eversman Preseeder. You have selected a top quality machine that is designed and built with pride to give you many years of efficient, reliable service.

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

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

Specifications And Design Are Subject To Change Without Notice

Art's-Way Manufacturing Co., Inc. is continually making product improvements. In doing so, we reserve the right to make changes or add improvements to our products without obligation for equipment previously sold.

Because modifications to this preseeder may effect the performance, function and safety of its operation, no modifications are to be made without the written permission of Art's-Way Manufacturing Co., Inc. Any modifications made without the written permission of Art's-Way Mfg. Co. shall void the warranty of this product.

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

Art's-Way Manufacturing Co., Inc. Statement Of Product Liability

Art's-Way Manufacturing Co., Inc. recognizes its responsibility to provide its customers with a safe and efficient product. Art's-Way attempts to design and manufacture its products in accordance with accepted engineering practices in effect at date of design. This statement should not be interpreted to mean that our products will protect against the user's own carelessness or failure to follow common safety practices as set forth in this Manual, nor will Art's-Way be liable for any such act. In addition, Art's-Way assumes no liability for product altered or modified in any way by users or anyone other than an authorized dealer.

Important Warranty Information

The warranty for the Eversman Preseeder appears on page 4 of this manual. In order to establish a proper warranty, the Warranty Registration and Dealer Pre-Delivery Checklist must be completed and returned to the factory. Failure to comply with this requirement will result in reduced warranty allowances.

Limitations Of This Manual

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

Parts & Service

As the new purchaser of your Eversman Preseeder, it is very important to consider the following factors:

- A. Original Quality
- B. Availability of Service Parts
- C. Availability of Adequate Service Facilities

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

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

Owner's Name _____

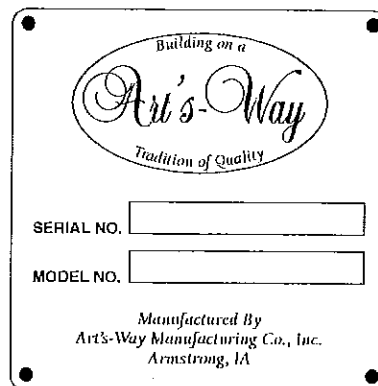
Owner's Address _____

Purchase Date _____

Dealership Name _____

Dealership Address _____

Dealership Phone No. _____



serial plate

Enter The Serial Number & Model Number Of Your Preseeder In The Space Provided Above

Table of Contents

Warranty Registration and Delivery Service for Art's-Way Equipment	Front
To The Owner	1
Parts & Service	2
Table of Contents	3
Limited Warranty	4
Safety First	5
Safety Guidelines	6 & 7
Safety Decals	8 - 10
Introduction: Ditchers	11
Preparing Ditcher For Operation	12 - 14
Operations & Adjustments: Ditchers	15 - 22
Lubrication: Ditcher	23 - 25
Service: Ditchers	26
Troubleshooting: Ditchers	32 - 34
Attachments	35 & 36
Specifications	37
Torque Guide, SAE Grade Identification	38

Limited Warranty

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

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

Safety First

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

National Safety Council

Most accidents can be prevented if the operator:

- fully understands how the machine functions
- can anticipate situations which may produce problems
- can make necessary corrections before problems develop



Figure 1. The Universal Safety Alert Symbol

The American Society of Agricultural Engineers has adopted the *UNIVERSAL SAFETY ALERT SYMBOL* (Figure 1) as a way to identify areas of potential danger if the equipment is not operated correctly.

Please be alert whenever you see this symbol in the manual or on your preseeder.

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

Safety features and instructions for the Art's-Way Eversman Preseeder Models PS180, PS216, PS240, or PS288, PS300/(PS10-30) are detailed elsewhere in the Operator's Manual. It is the responsibility of the Preseeder owner to ensure that all operators read and understand the Manual before they are allowed to operate the preseeder. [Occupational Safety and Health Administration (OSHA) regulation 1928.57].

Notices of Danger, Warning, and Caution

Watch for these words on preseeder decals and in this Manual to alert you to important safety messages.

DANGER

Immediate and specific hazard which **will** result in severe personal injury or death if proper precautions are not taken.

WARNING

Specific hazard or unsafe practice **could** result in severe personal injury or death if proper precautions are not taken.

CAUTION

A reminder of good safety practices. Personal injury **could** result if proper procedures are not followed.

Safety Guidelines

CAUTION

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

CAUTION

READ and UNDERSTAND the Operator's Manual and all the safety decals before operating the ditcher. Review safety instructions with all operators annually.

Operating Safety

- Install and secure all guards and shields before starting or operating the machine.
- Clear the area of bystanders before operating the machine.
- Put all tractor and machine controls in "neutral" and disengage PTO before starting.
- Operate machine only while seated on the tractor seat.
- Keep hands, feet, hair and clothing away from moving parts.
- Do not attempt to pull entangled material from components when machine or engine is running.
- Before servicing, adjusting, repairing or unplugging the machine, stop the tractor engine, lower the machine to the ground, place all controls in neutral, set parking brake, remove ignition key, and wait for all moving parts to stop.
- Stay away from overhead power lines. Electrocution can occur even without direct contact.
- Clean reflectors, SMV, and lights before transporting. Be sure lights work and use the tractor road lights when transporting.
- Add extra lights and use a pilot vehicle when transporting machine during times of limited visibility.
- Make sure the unit is adequately blocked before working on it.

- Do not allow anyone to ride on machine while in operation.
- When turning, allow enough room for the rear caster wheels to clear all obstacle.

Hydraulic Safety

- Make sure all components in the hydraulic system are kept clean and in good condition.
- Replace any worn, cut, abraded, flattened, or crimped hoses.
- Do not make any temporary repairs to the hydraulic lines, fittings, or hoses by using tape, clamps, or cements. The hydraulic system operates under extremely high pressure and temporary repairs may fail suddenly and create a hazardous situation.
- Wear proper hand and eye protection when searching for a high-pressure hydraulic leak. Use a piece of wood or cardboard as a backstop instead of hands to identify and isolate a leak.
- If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Serious infection or toxic reaction can develop if hydraulic fluid penetrates the surface of the skin.
- Before applying pressure to the system, make sure all components are tight and that ~~tubes~~ hoses, and couplings are not damaged.

Maintenance Safety

- Follow all operating, maintenance and safety instructions found in this Manual.
- Clear area of bystanders, especially small children, when making repairs or adjustments, or performing maintenance on the machine.
- Before servicing, adjusting, repairing or unplugging the machine, stop the tractor engine, lower the machine to the ground, place all controls in neutral, set parking brake, remove ignition key, and wait for all moving parts to stop.
- Use only the tools, jacks and hoists that are of sufficient capacity for the job.
- Use support blocks or safety stands when changing tires or working under the machine.
- Follow the good shop practices of keeping the service area clean and dry and use adequate light for the job at hand.

- Relieve pressure from hydraulic circuit before servicing or disconnecting from tractor.
- Make sure all shields/guards are in place and properly secured when maintenance work is complete.
- After servicing or lubrication, be sure all tools and equipment are removed from the machine.

Transport Safety

- Be sure to comply with all local regulations regarding transporting equipment on public roads and highways.
- Make sure the Slow Moving Vehicle (SMV) emblem and all lights and reflectors required by local highway and transportation authorities are in place, clean and clearly visible to all oncoming or following traffic.
- Do Not allow anyone to ride on the preseeders or tractor during transport.
- Do Not exceed 10 mph (16km/h) when transporting machine. Reduce speed on rough roads and surfaces.
- Stay away from overhead obstructions and power lines during transport. Electrocution can occur even without direct contact.
- Always use hazard warning flashers on the tractor when transporting unless prohibited by law in your area.
- Always use turn signals on tractor to indicate your turning intentions to other traffic.
- Do not lift the preseeders alone with the tractor three-point hitch system. Rear lift-assist wheels must be on the ground at all times.

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

Storage Safety

- Store the preseeders in an area away from human activity.
- Do Not permit children to play on or around the stored machine.
- Make sure the preseeders are stored in an area with firm and level base to prevent the machine from tipping or sinking into the ground.

Assembly Safety

- Use adequate manpower to perform assembly procedures safely.
- Assemble the preseeders in an area with sufficient space to maneuver the largest components and allow easy access to all sides of the machine.
- Use only forklifts, lift cranes, jacks, and tools with sufficient capacity for the loads.

Tire Safety

- Have a qualified tire dealer or repair service perform tire repairs.
- Do Not attempt to mount a tire unless you have the proper equipment and experience to do the job.
- Follow proper procedures when mounting a tire on a rim to prevent an explosion which could result in serious injury.
- Do Not substitute tires of lesser road rating and capacity for the original equipment tires.

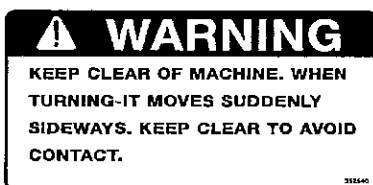
Safety Decals

The different types of safety decals for your Eversman Preseeder are illustrated on the following pages. Please familiarize yourself with the appearance of each decal, the warning it describes and the area where it is located on the machine. Refer to the diagrams below and on page 9 for decal locations. The six digit number after the description on pages 8 and 9, is the part number of that decal. (This part number also appears in the lower right corner of the decal.)

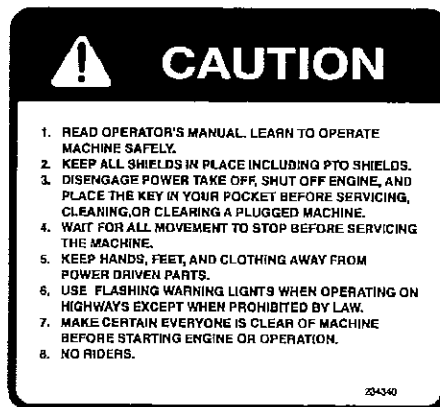
Safety awareness is the responsibility of each operator of the Eversman Preseeder. Keep safety decals and signs clean and legible and be sure replacement parts display the current safety decals and signs as well. *Remember: Always replace missing, damaged or illegible safety decals. New decals and signs are available from your dealer.*



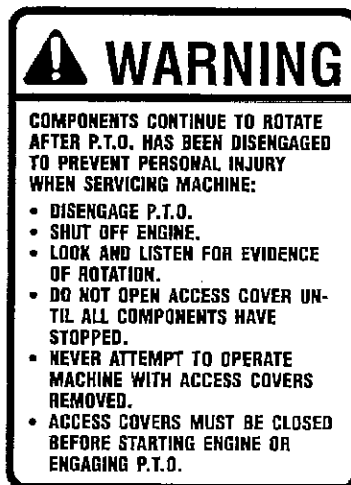
No. 1 - "Danger" - Rotating driveline - decal located on PTO.
Part No. 268860.



No. 4 - "Warning" - Keep clear of machine.
Part No. 352540.



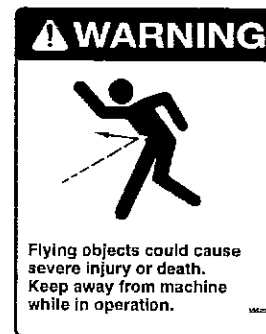
No. 2 - "Caution" - 8 safety instructions.
Part No. 234340.



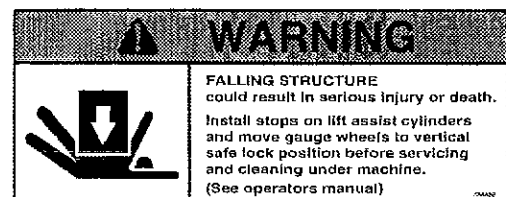
No. 5 - "Warning" - Components continue to rotate.
Part No. 146010.



No. 3 - "Danger" - Rotating blades.
Part No. 346290.



No. 6 - "Warning" - Flying objects could cause injury or death.
Part No. 355200.



No. 7 - "Warning" - Falling structure.
Part No. 384650.

Figure 2. Eversman Preseeder Safety Decal Locations

Safety Decals

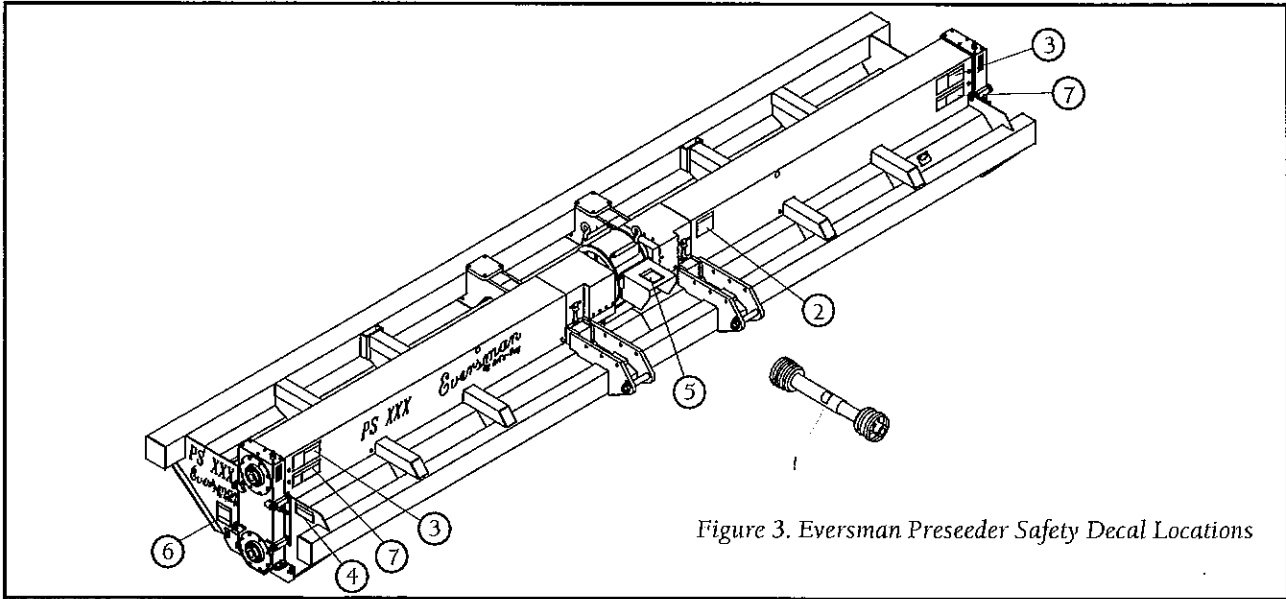


Figure 3. Eversman Preseeder Safety Decal Locations

Decal Locations For Eversman Preseeder: Decal Locations For Eversman Preseeder:

Item	Qty.	Drawing No.	Description
1	1	268860	Decal, Danger Rotating Drive Line
2	1	234340	Decal, Caution, 8 Safety Instructions
3	2	346290	Decal, Danger, Rotating Blades
4	2	352540	Decal, Warning, Keep Clear

Item	Qty.	Drawing No.	Description
5	1	146010	Decal, Warning, Comp. Cnt. to Rotate
6	2	366200	Decal, Warning, Flying Objects
7	2	384650	Decal, Warning, Falling Structure

Table 1. Eversman Preseeder Safety Decal Locations

Equipment Specifications

Model:	PS180	PS216	PS240	PS288	PS300(PS10-30)
Working Width	15'	18'	20'	24'	25'
Standard No. of Knife Assy's	28	30	36	40	48
Number of Knives	112	120	152	160	192
HP Required - Strip Till	110	120	130	150	170
HP Required - Solid Till	130	140	150	180	200
Transportation Width	16'	19'	21'	25'	26'
Weight (lbs.)	5480	6130	6560	7420	7640

1000 RPM PTO Drive, 225 or 280 HP gearbox, 9" transport clearance, Cat. 2, 3 or 3N quick hitch and set-up for 4.5 MPH ground speed with 2.5 to 3 inches working depth.

Optional Equipment:

- Tungsten carbide coated knives
- Rear heavy-duty short lift-assist wheels
- Rear heavy-duty long lift assist wheels
- Front dual-gauge wheels
- Front heavy-duty dual-gauge wheels
- Front yoke gauge wheels
- Auxiliary gearbox PTO
- Gearbox cooling fan
- Planter mounting bracket kit
- Planter tool bar drive coupler kits
- Higher or lower rotor speed kits
- Front walking tandem gauge wheels

Assembly

To the Dealer and Purchaser

CAUTION

A word of caution is in order before you assemble or replace the blades on your preseed unit:

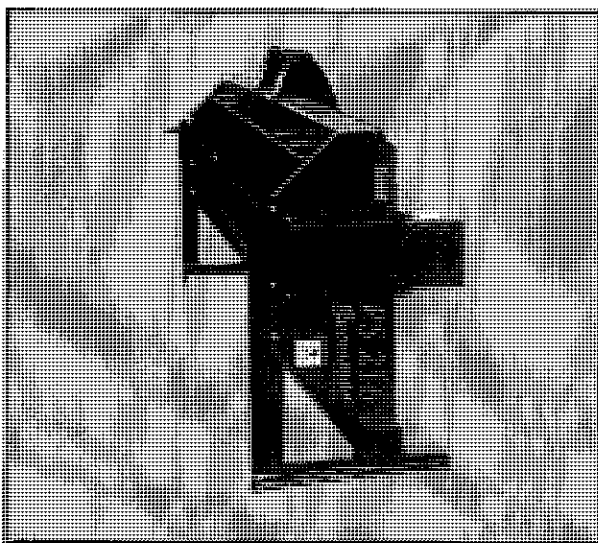


Figure 4. Shipping Stands.

Install rollers and front-gauge wheels while preseed is on shipping stands (P/N 384960 to 384970) **Figure 4**.

- Pin front gauge wheels with vertical strut locking pin (P/N 384350). **Figure 5**
- Attach cylinder stop (P/N 384600) to ram of lift-assist cylinder. **Figure 6**
- Securely block the front-gauge wheels and the lift-assist wheels so the machine will not roll.
- Avoid crawling under the blades, or exposing a leg under them, while working under the unit.
- The blades can be replaced without putting the preseed on blocks or stands, extra precaution must be exercised before working under the unit. In addition to blocking the wheels to prevent rolling, be certain the machine cannot slip or slide off the stands.

We request you advise your own people regarding the above precautions, and also explain to your owners and workers that recommendations should be carefully followed whenever there is occasion to work under this machine.

This machine will be largely assembled when delivered to the dealer. His assembly obligations will be:

- Front-gauge wheels
- Rear lift-assist wheel assemblies
- Rotor assemblies
- Tailgate assembly
- Attachment to tractor

Warning:

Securely block the preseed frame prior to installing gauge wheel. or leave preseed on shipping stands.



Figure 5. Gauge Wheel Mounting

Front Gauge Wheels

Two gauge wheels are attached to the front beam using four (4) U-bolts (375070). The U-bolts and lock nuts are attached to the gauge wheels for shipment.

Install wheels and tires (factory mounted) on hubs. The wheel bolts are shipped in place, and the hubs are factory lubricated. Torque the lug nuts to 90 ft.-lbs.

The centerline of the gauge wheel assembly is located at 90" from the centerline of the pre-seeder for 30" rows; 108" for 36" rows. Check row spacings for other locations desired, such as ridge tillage. **Figure 7**

Assembly, Continued

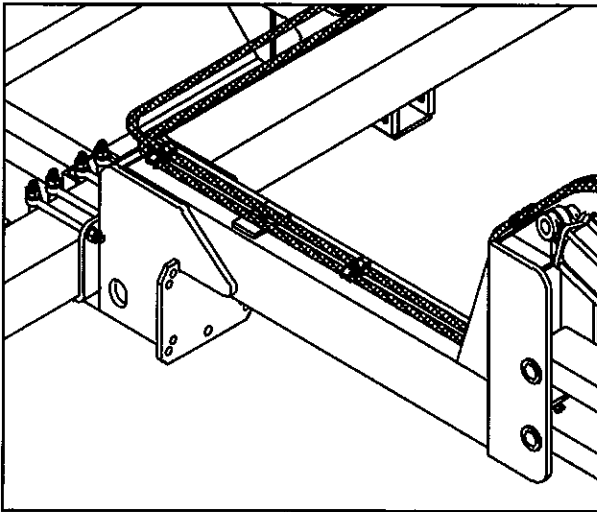


Figure 6 Lift Assist Mounting.

Mount each tire and wheel fork assembly to lift-assist assembly with (4) 3/4" bolts, nuts, and lock washers. Tighten all bolts and nuts

Lift-Assist

Mount each lift-assist assembly (368310 short or 457960 long) to the 7" x 7" rear beam with (4) 3/4" eyebolts, (4) 3/4" bolts and (8) nuts and lock washers. Do not tighten at this time. Position the centerline of the lift-assists at 60" from the centerline of preseed center section for 30" rows, 72" for 36" rows.

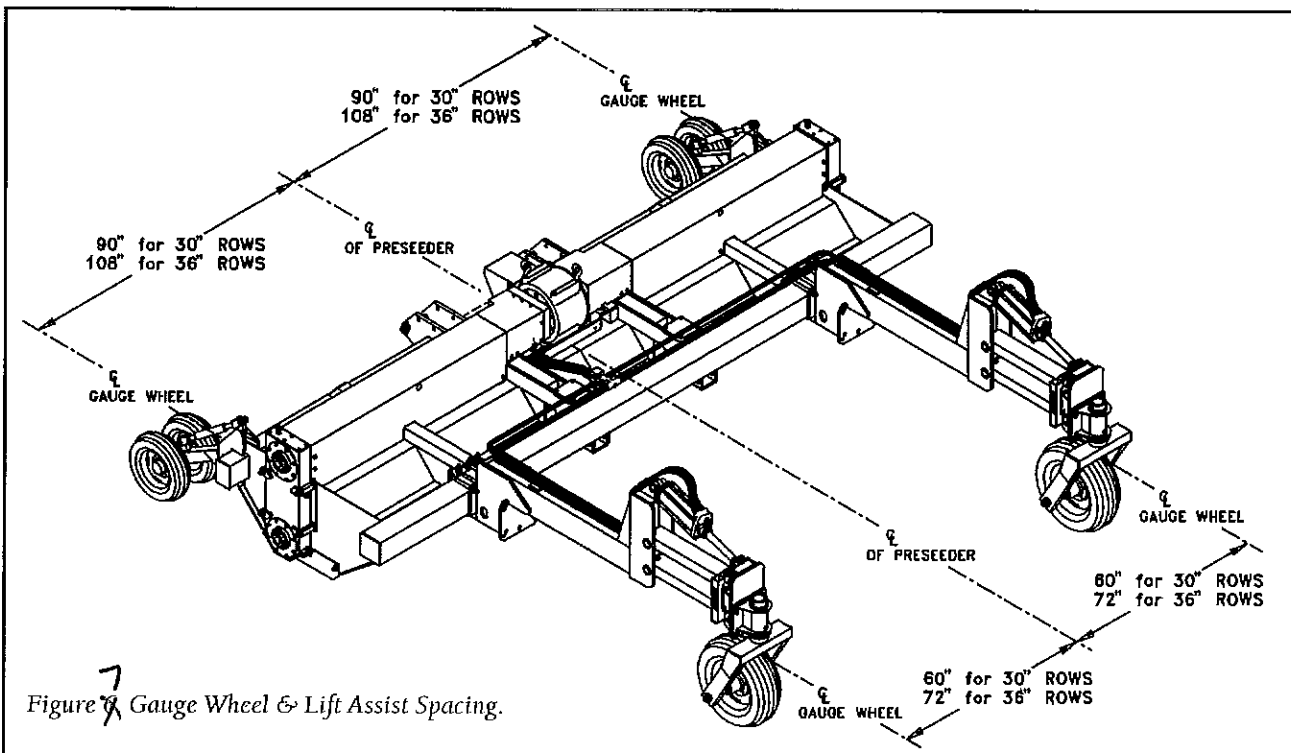


Figure 7 Gauge Wheel & Lift Assist Spacing.

Assembly

To the Dealer and Purchaser

CAUTION

A word of caution is in order before you assemble or replace the blades on your preseed unit:

- Securely block the front-gauge wheels and the lift-assist wheels so the machine will not roll.
- Avoid crawling under the blades, or exposing a leg under them, while working under the unit.
- The blades can be replaced without putting the preseed unit on blocks or stands, extra precaution must be exercised before working under the unit. In addition to blocking the wheels to prevent rolling, be certain the machine cannot slip or slide off the stands.

We request you advise your own people regarding the above precautions, and also explain to your owners and workers that recommendations should be carefully followed whenever there is occasion to work under this machine.

This machine will be largely assembled when delivered to the dealer. His assembly obligations will be:

- Front-gauge wheels
- Rear lift-assist wheel assemblies
- Rotor assemblies
- Tailgate assembly
- Attachment to tractor

Front Gauge Wheels

Warning:

Securely block the preseed unit frame prior to installing gauge wheel.

Two gauge wheels are attached to the front beam using four (4) U-bolts (375070). The U-bolts and lock nuts are attached to the gauge wheels for shipment.

Install wheels and tires (factory mounted) on hubs. The wheel bolts are shipped in place, and the hubs are factory lubricated. Torque the lug

nuts to 90 ft.-lbs.

* Leave machine on shipping stands when installing front gauge wheels and blades if available Figure 4.

* Pin front gauge wheels with vertical strap locking pin (384350) Figure 8.

* Attach cylinder stop (384600) to rear of cylinder Figure 8.

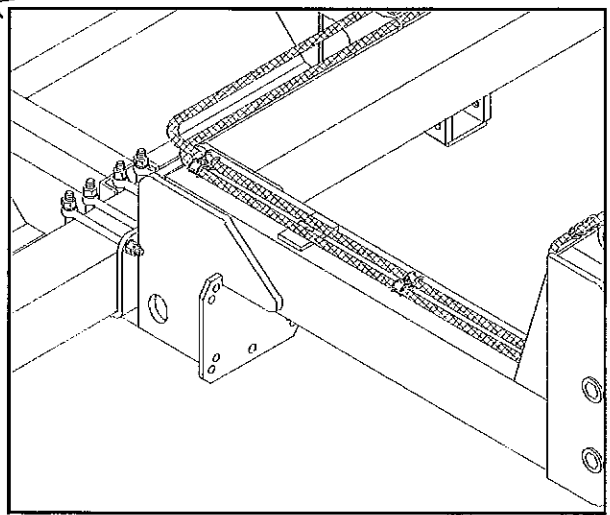
The centerline of the gauge wheel assembly is located at 90" from the centerline of the preseed unit for 30" rows; 108" for 36" rows. Check row spacings for other locations desired, such as ridge tillage.

Lift-Assist

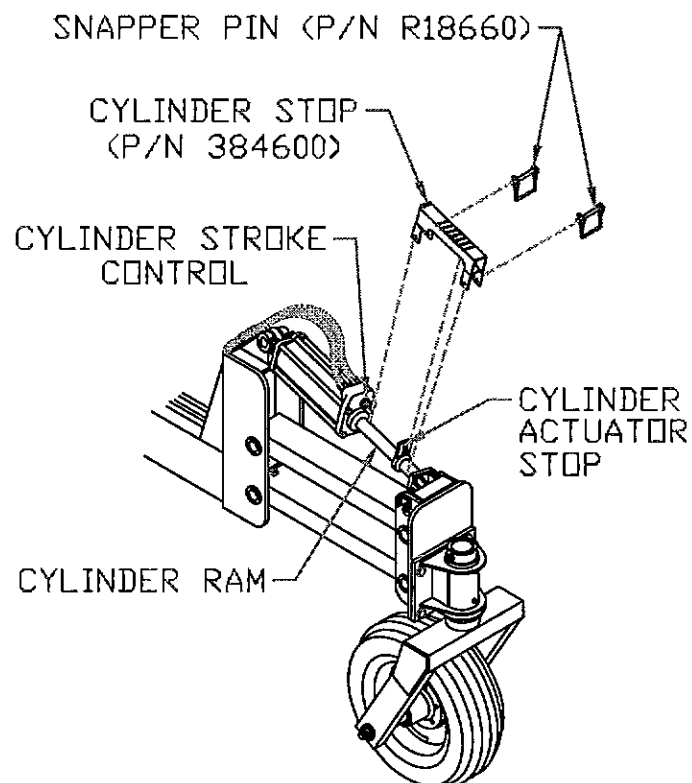
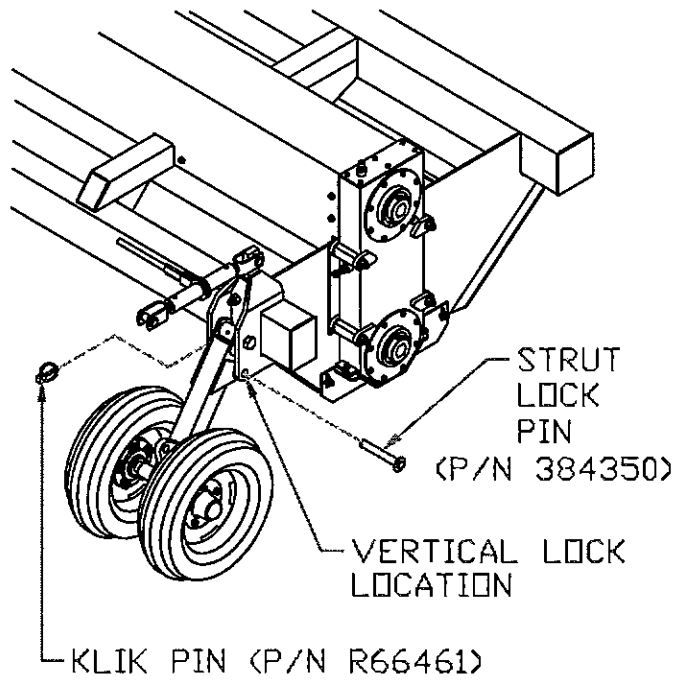
Mount each lift-assist assembly (368310 short or 457960 long) to the 7" x 7" rear beam with (4) 3/4" eyebolts, (4) 3/4" bolts and (8) nuts and lock washers. Do not tighten at this time.

Position the centerline of the lift-assists at 60" from the centerline of preseed unit center section for 30" rows, 72" for 36" rows.

Mount each tire and wheel fork assembly to lift-assist assembly with (4) 3/4" bolts, nuts, and lock washers. Tighten all bolts and nuts.



SAFETY LOCKS AND STOPS



TXTSIZE (1)

FIGURE 8
X

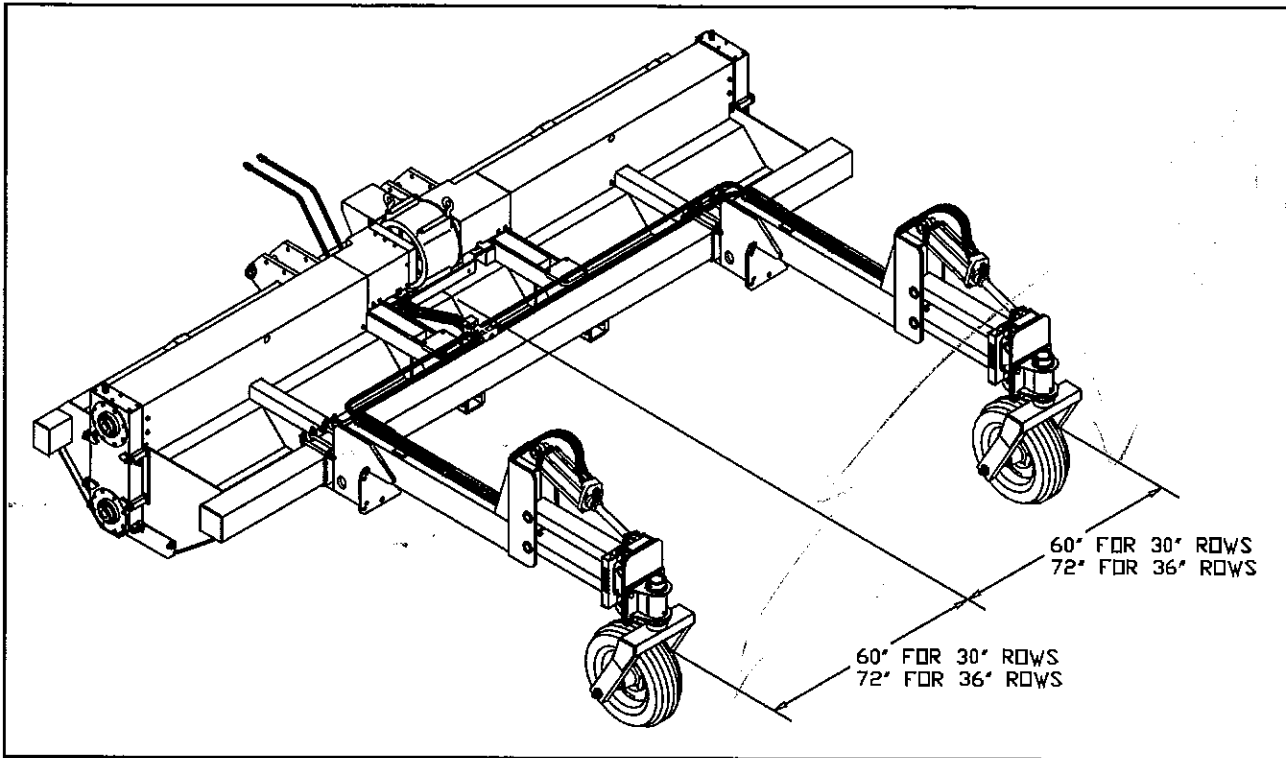
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SCALE 1:24

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1

2

Assembly, Continued



⚠ DANGER

Before starting assembly of the tillage blades to the rotor shafts be sure to review instructions on safety, page 10, regarding proper support of the machine before any assembly.

IMPORTANT — READ CAREFULLY!

Right and Left Lower Hex Rotor Shaft Alignment

The hex upper drive shafts are factory assembled to the chain couplers and the main gearbox. Also the lower rotor shafts are properly aligned to maintain a "spiral" cutting pattern for the blades.

Should the need arise to assemble these parts, it is necessary to "time" the upper drive shafts with the lower hex rotor shaft. This is accomplished by turning the upper shaft until the "flat" portion of the upper shaft and the lower shaft are in time. If they are not, continue to turn the upper shaft slowly until a perfect alignment of the position of the hexagon shape

of the shaft is obtained. Due to the chain case reduction ratio the lower shaft turns one revolution for each 1-1/3 revolutions of the upper shaft.

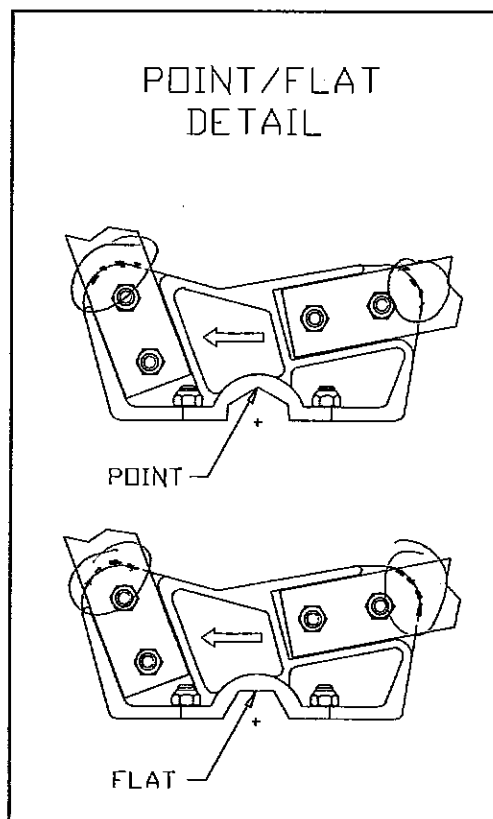
Rotor Blade Installation

After all of the rotor half assemblies are completed, start at the center of the preseeders and mount them on the lower hex shaft. Again referring to the drawing on page 12, assemble two half casting—"flat" or "point". They are attached to the hex shaft with 1/2" x 1-1/2" Grade 5 bolts and 1/2" lock nuts.

Then alternate "flat" and "point" rotors along the lower hex shaft in accordance with spacing drawings, pages 13-20. A "spiral" pattern for the blades will be the result beginning at the center and continuing in opposite directions to each end. This spiral blade mounting simply means that all blades do not strike the ground at the same time, which requires less power and smooths out the operation by balancing the load.

Leave bolts loose until all rotors are mounted, then set the spacing.

Assembly, Rotor Assy. & Drive Shafts, Cont.

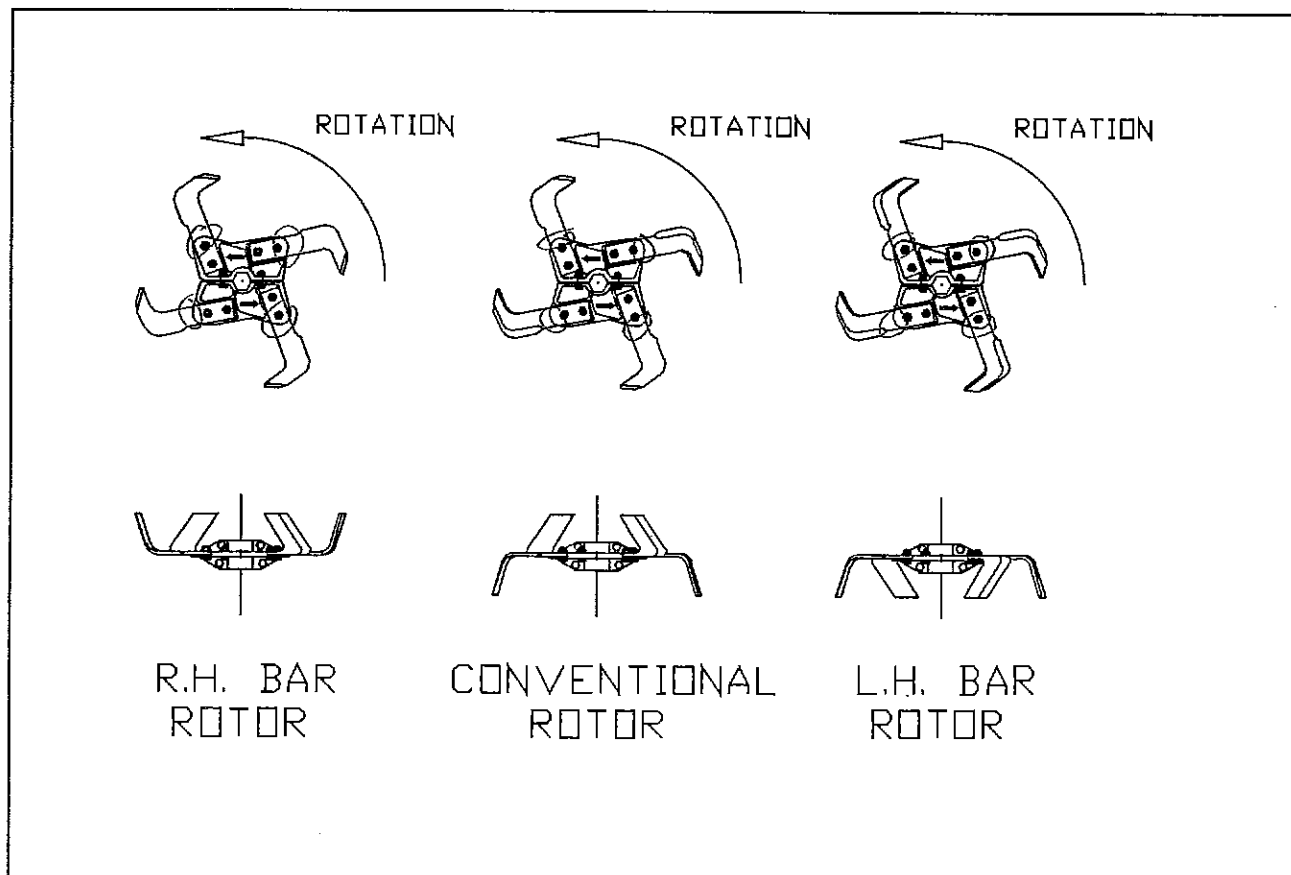


Spacing of Rotors

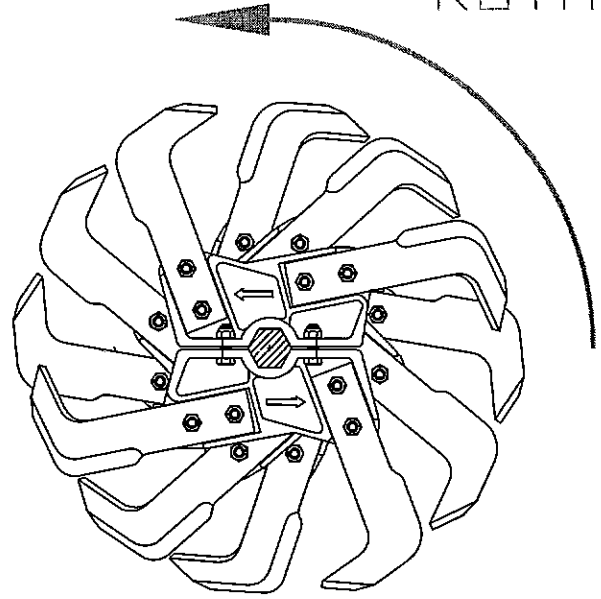
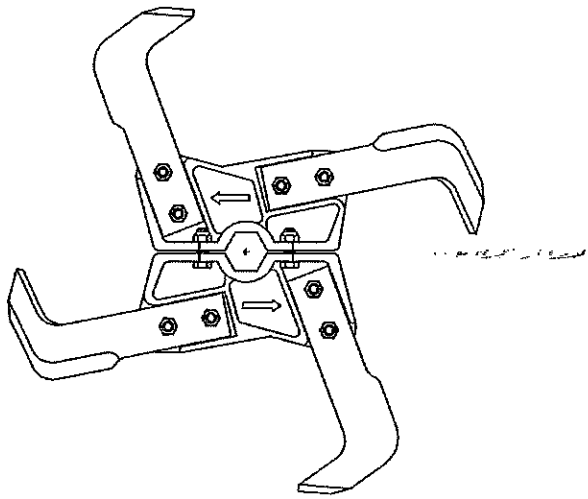
After all rotors are assembled, space them in the pattern you desire to operate, and then thoroughly tighten all bolts to 90 ft.-lbs. torque.

If you plan to operate in a "solid coverage" or "broadcast" pattern, space the rotors evenly along the hex shaft to cover the areas between the end plates, chain cases, and bearing mountings. This spacing permits full coverage except under the bearing mounts. Position carrier bearings, and space rotors as shown on pages 13 (PS180), 15 (PS210), 17 (PS240), 19 (PS240), 21 (PS280), 23 (PS280) and 24 (PS300/PS10730). For strip tillage, refer to drawings on page 14 (PS180), 16 (PS210), 18 (PS240), 20 (PS240), 22 (PS280), 23 (PS280) and 25 (PS300/PS10730) for carrier bearing and rotor spacing of each model.

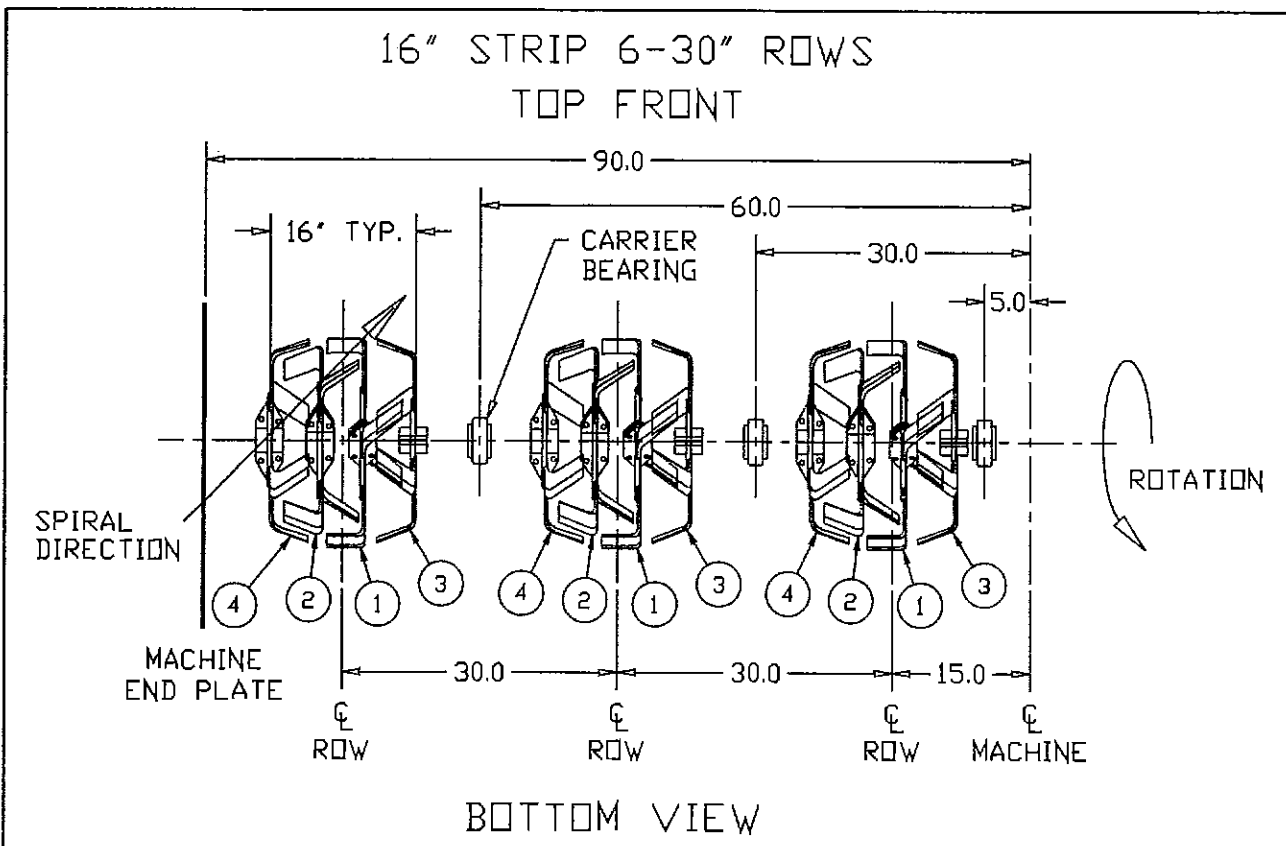
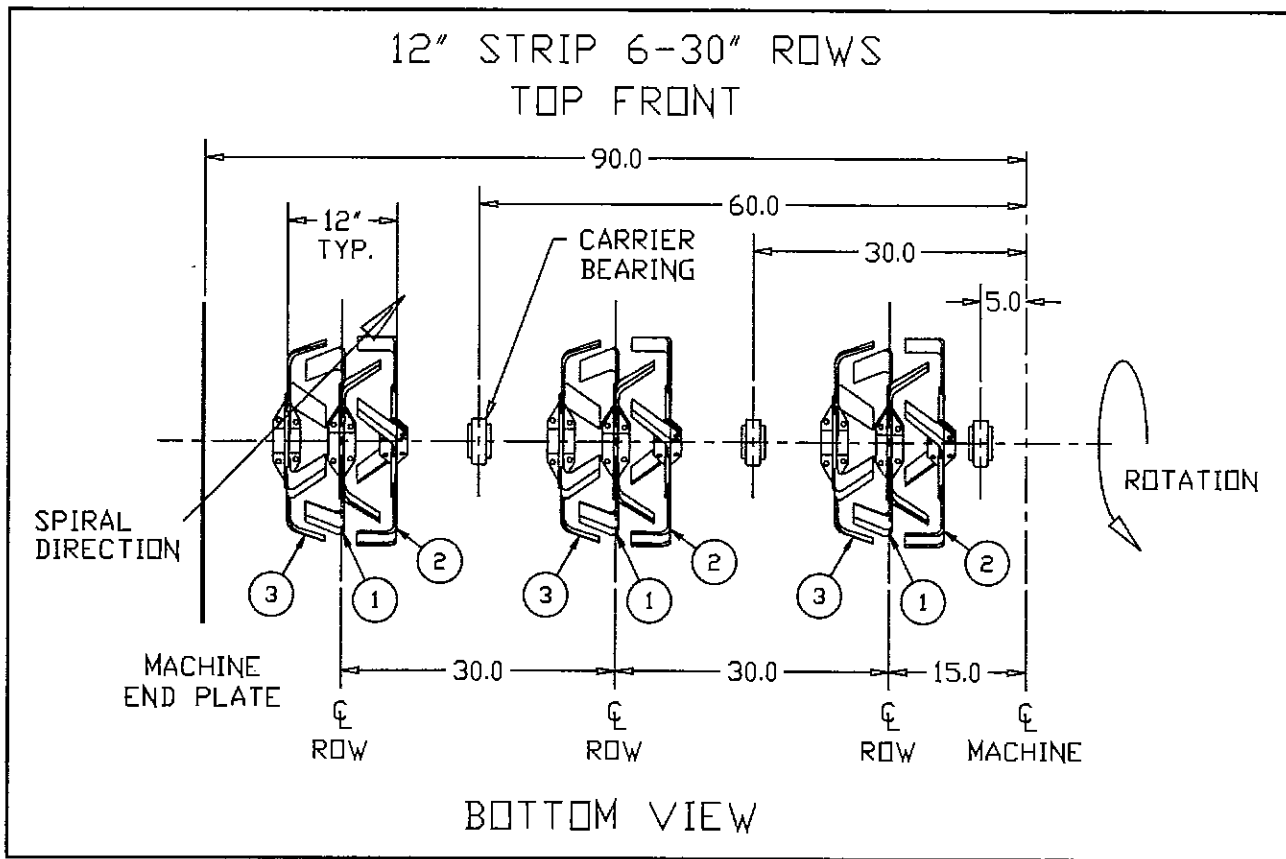
← Front of Machine

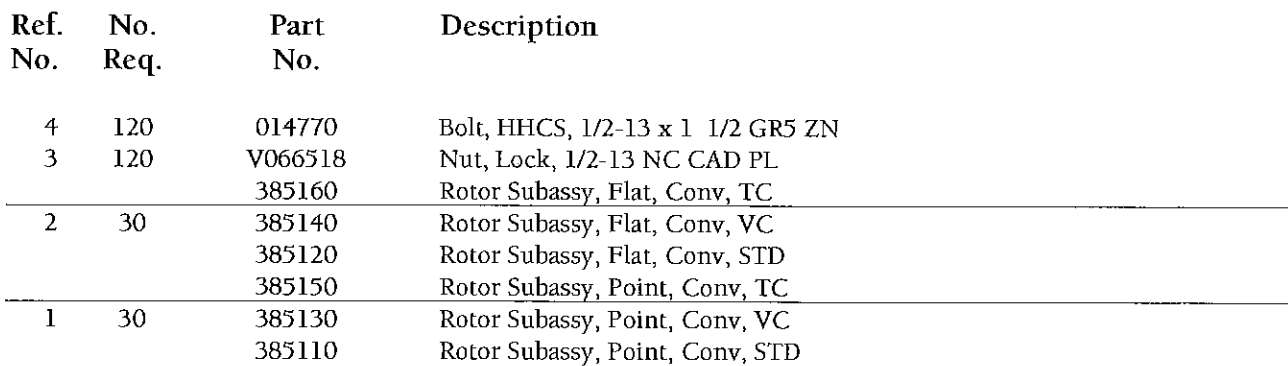


ROTATION

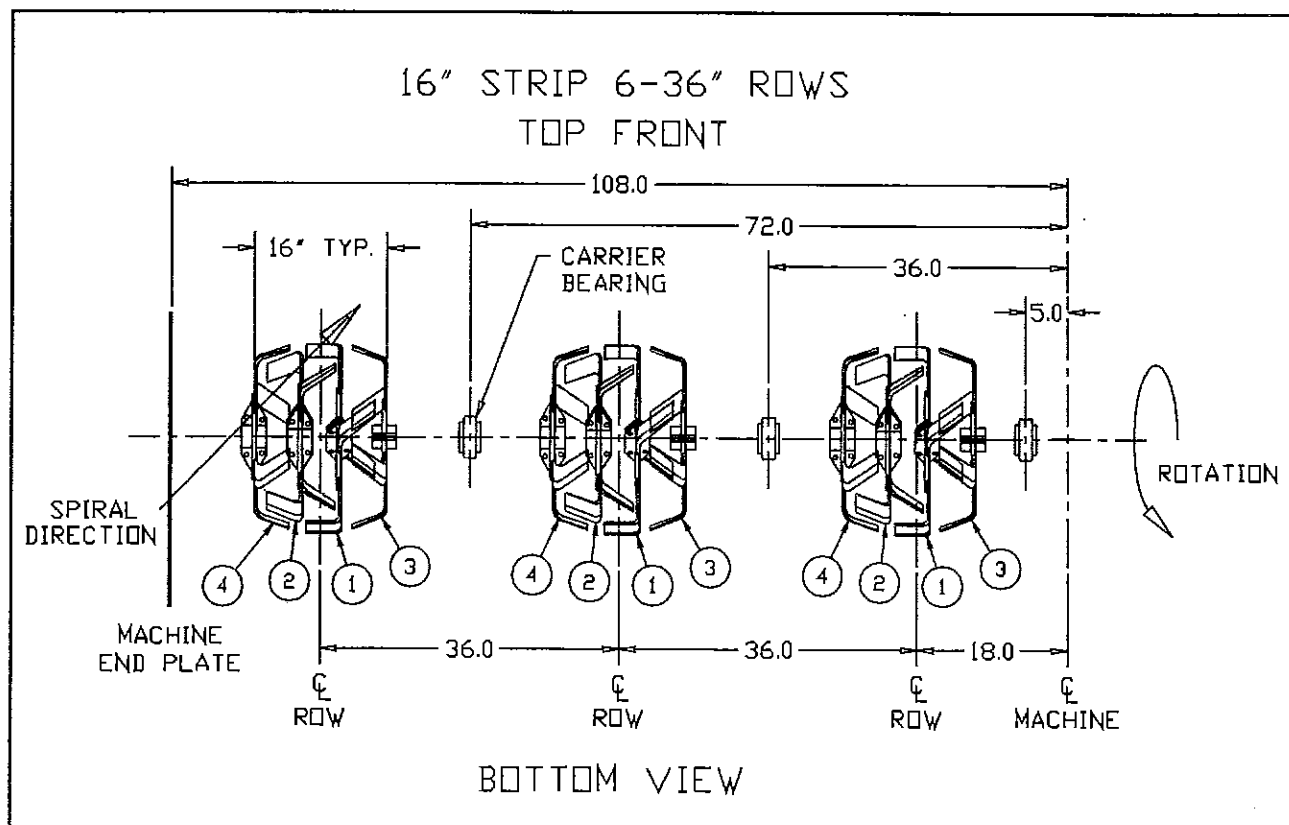
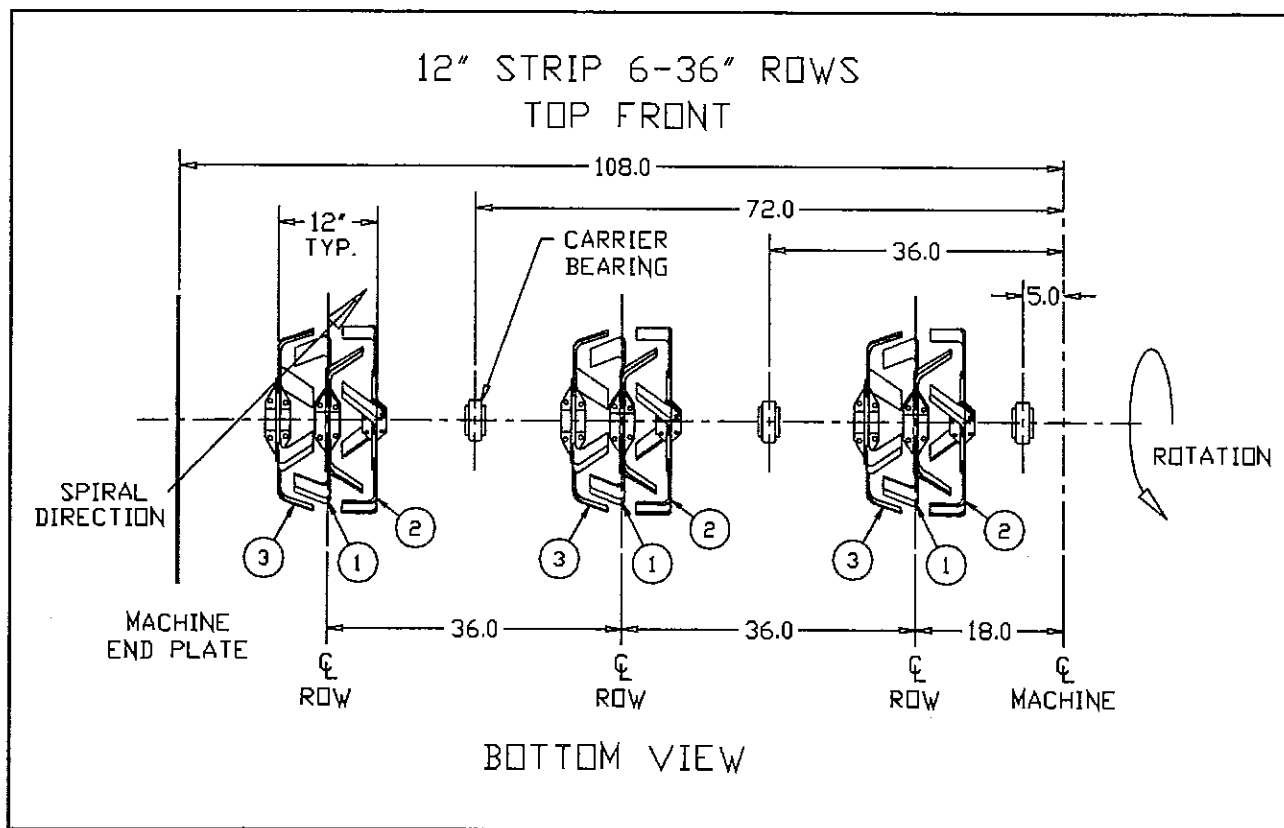


Assembly, Cont.

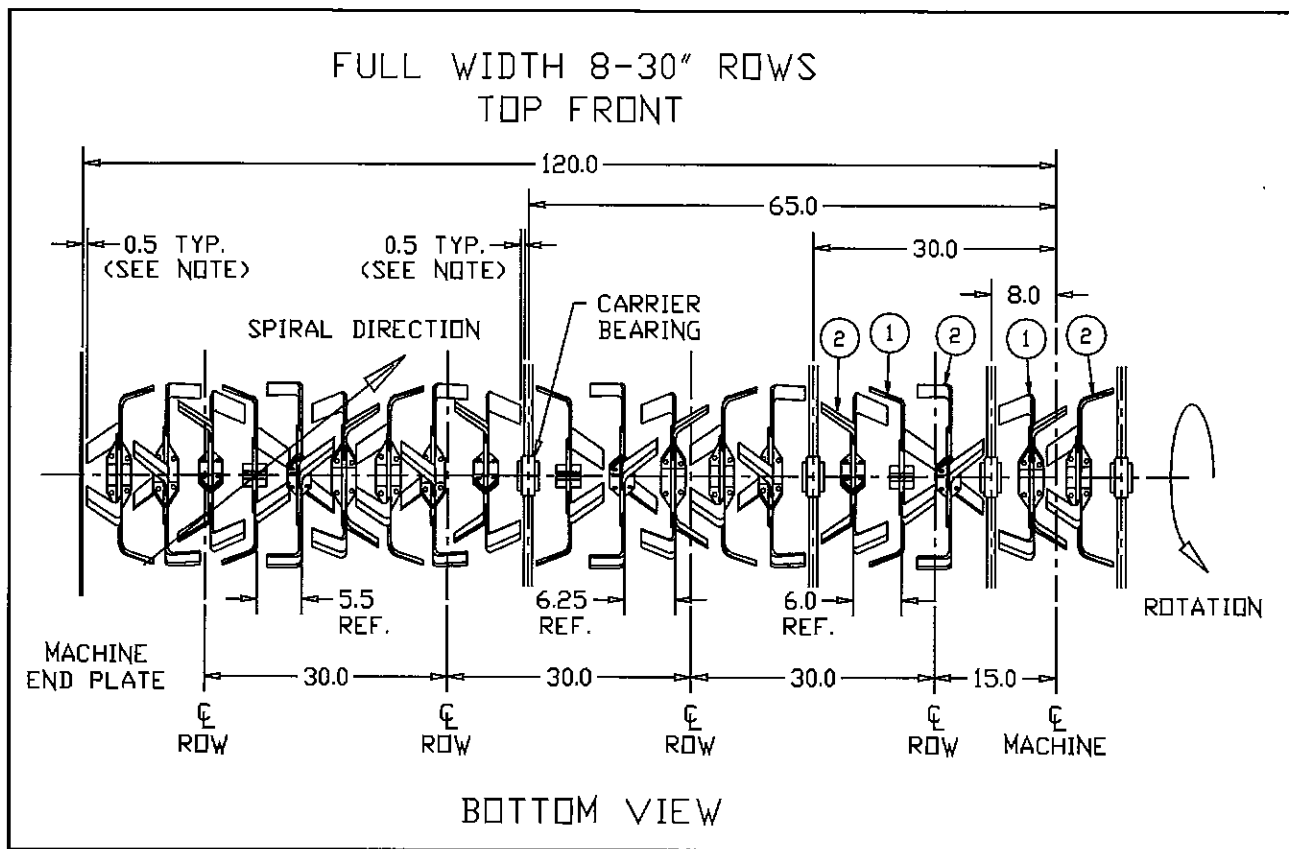




Assembly, Cont.



Assembly, Cont.



Ref. No.	No. Req.	Part No.	Description
4	144	014770	Bolt, HHCS, 1/2-13 x 1 1/2 GR5 ZN
3	144	V066518	Nut, Lock, 1/2-13 NC CAD PL
		385160	Rotor Subassy, Flat, Conv, TC
2	36	385140	Rotor Subassy, Flat, Conv, VC
		385120	Rotor Subassy, Flat, Conv, STD
		385150	Rotor Subassy, Point, Conv, TC
1	36	385130	Rotor Subassy, Point, Conv, VC
		385110	Rotor Subassy, Point, Conv, STD

12" STRIP 8-30" ROWS
TOP FRONT

120.0

12" TYP.

SPIRAL DIRECTION

CARRIER BEARING

65.0

30.0

5.0

ROTATION

30.0

30.0

30.0

15.0

MACHINE END PLATE

ROW

ROW

ROW

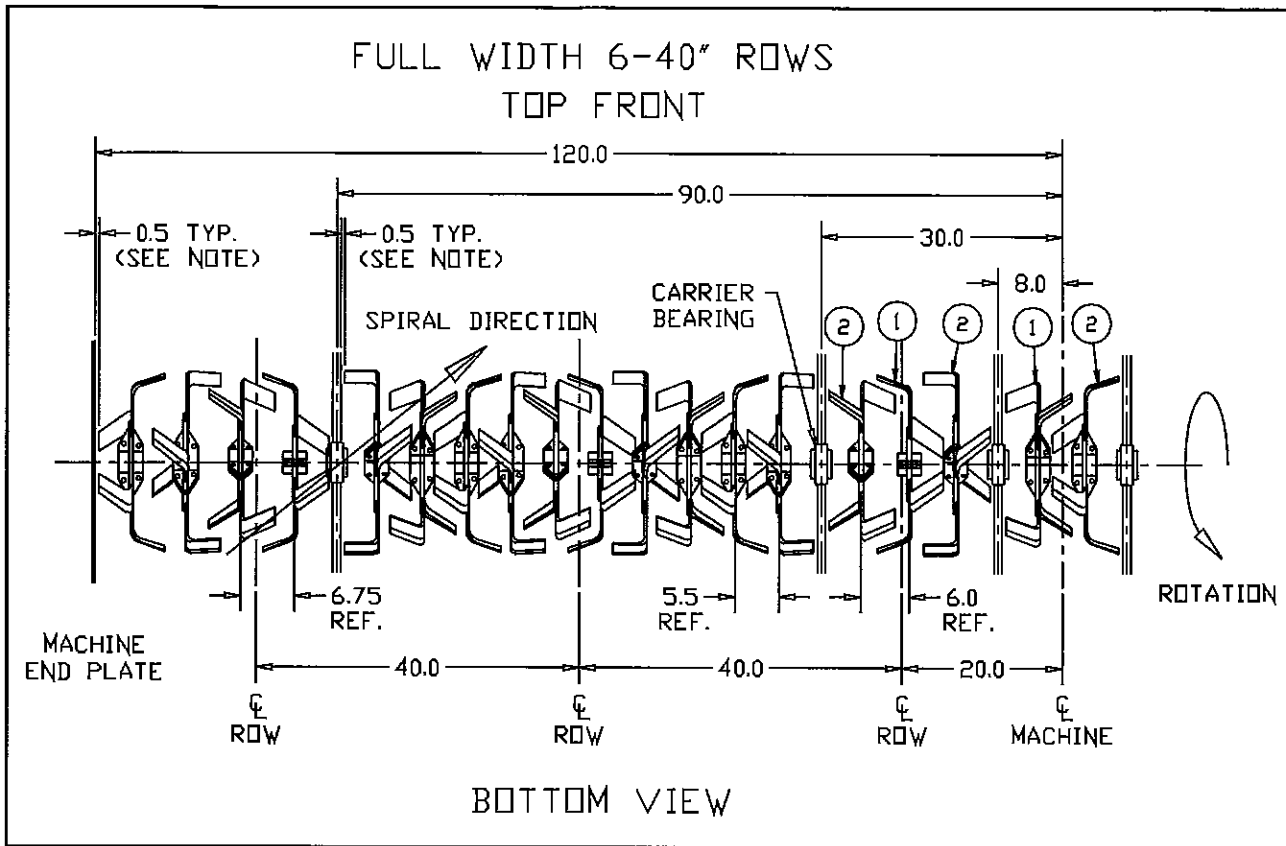
ROW

MACHINE

BOTTOM VIEW

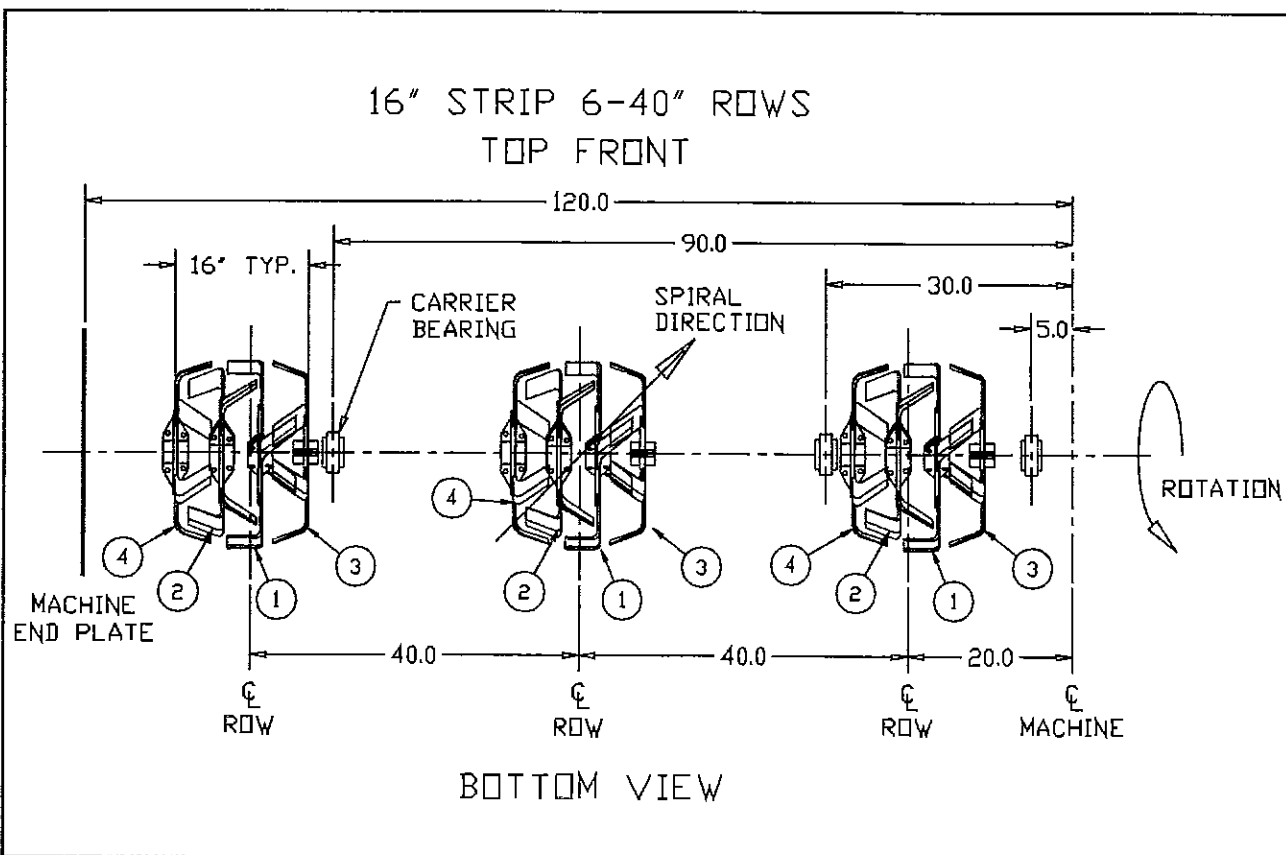
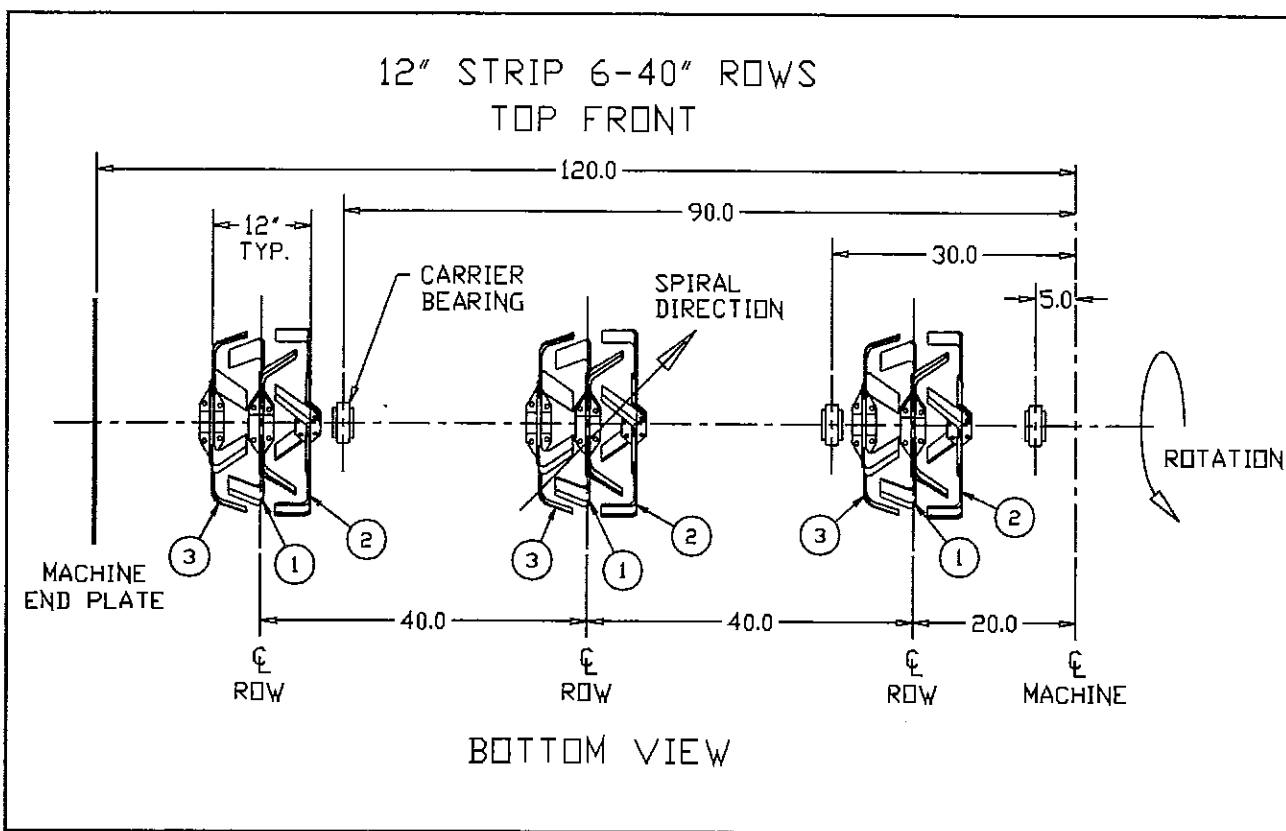


Assembly, Cont.

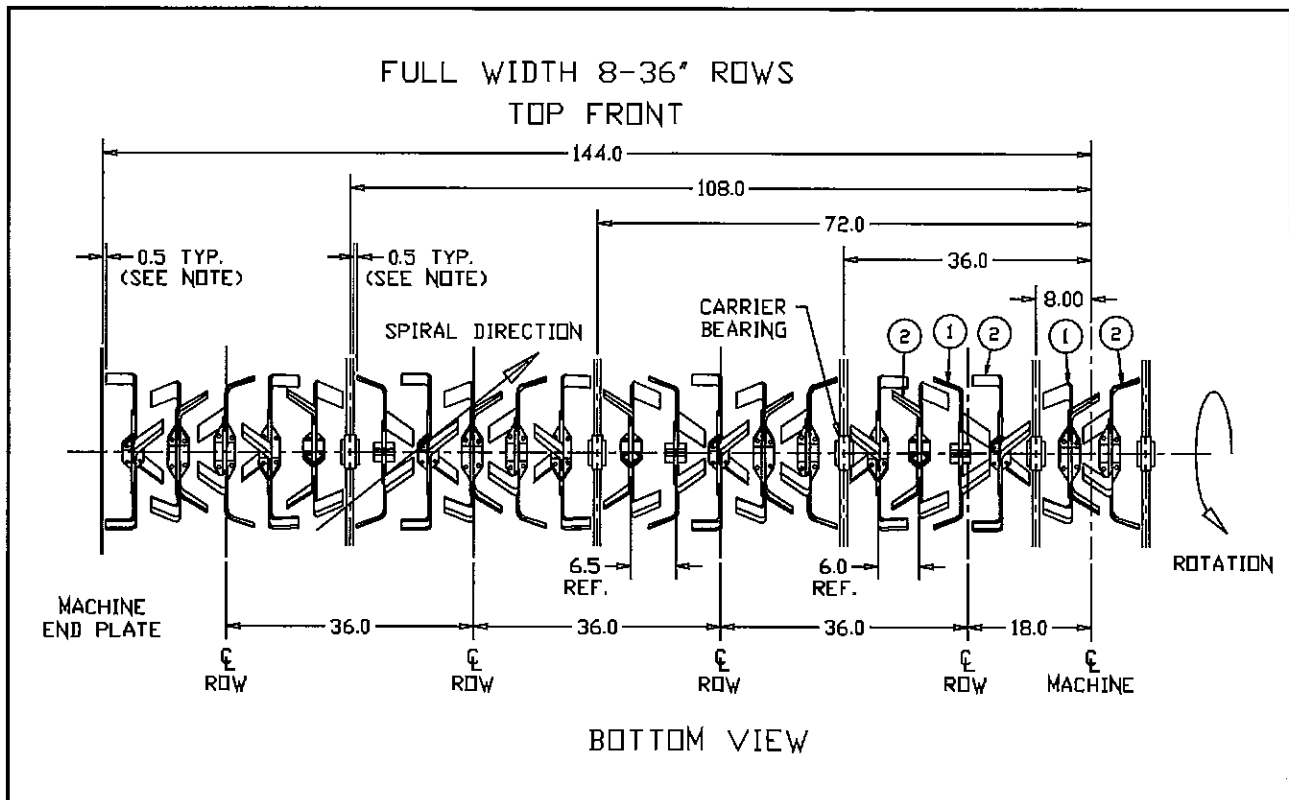


Ref. No.	No. Req.	Part No.	Description
4	144	014770	Bolt, HHCS, 1/2-13 x 1 1/2 GR5 ZN
3	144	V066518	Nut, Lock, 1/2-13 NC CAD PL
		385160	Rotor Subassy, Flat, Conv, TC
2	36	385140	Rotor Subassy, Flat, Conv, VC
		385120	Rotor Subassy, Flat, Conv, STD
		385150	Rotor Subassy, Point, Conv, TC
1	36	385130	Rotor Subassy, Point, Conv, VC
		385110	Rotor Subassy, Point, Conv, STD

Assembly, Cont.

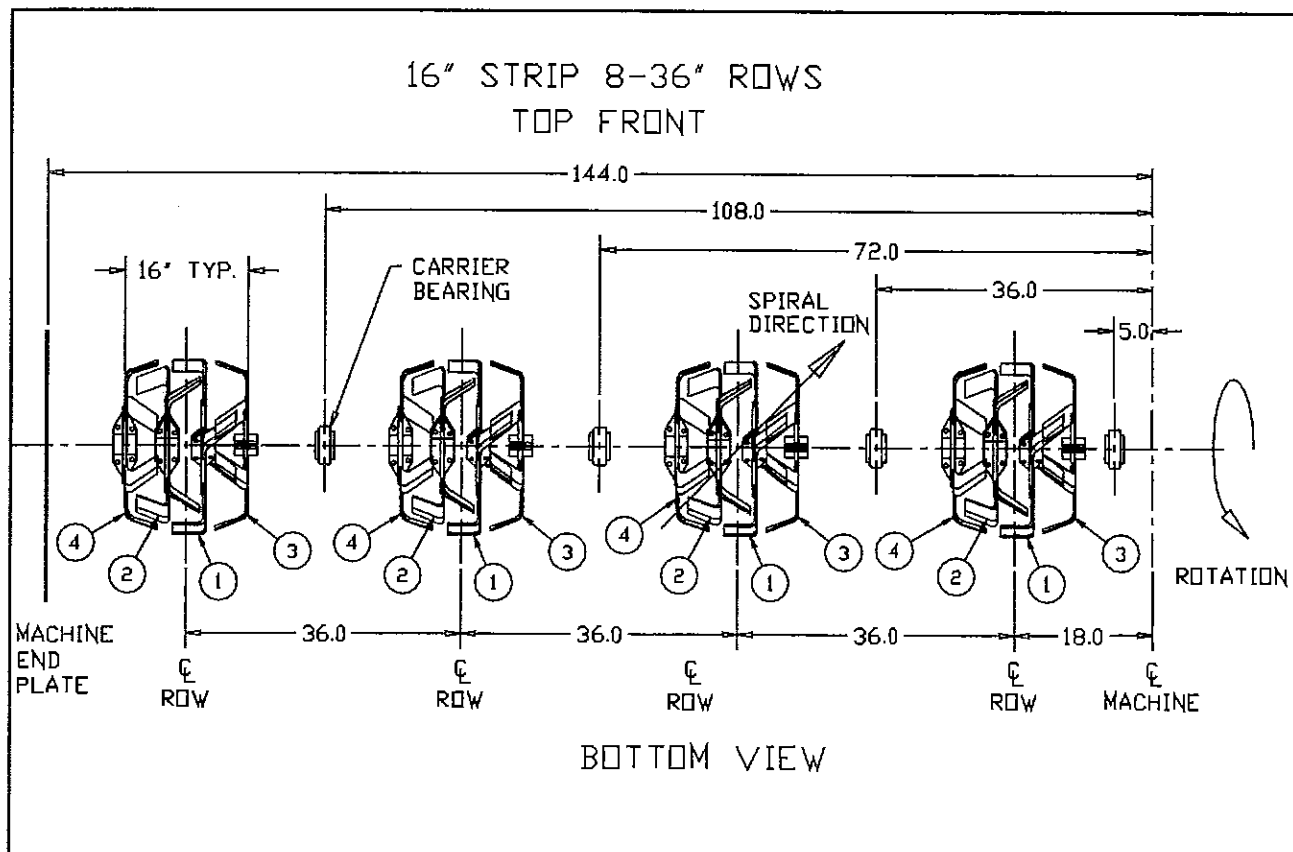
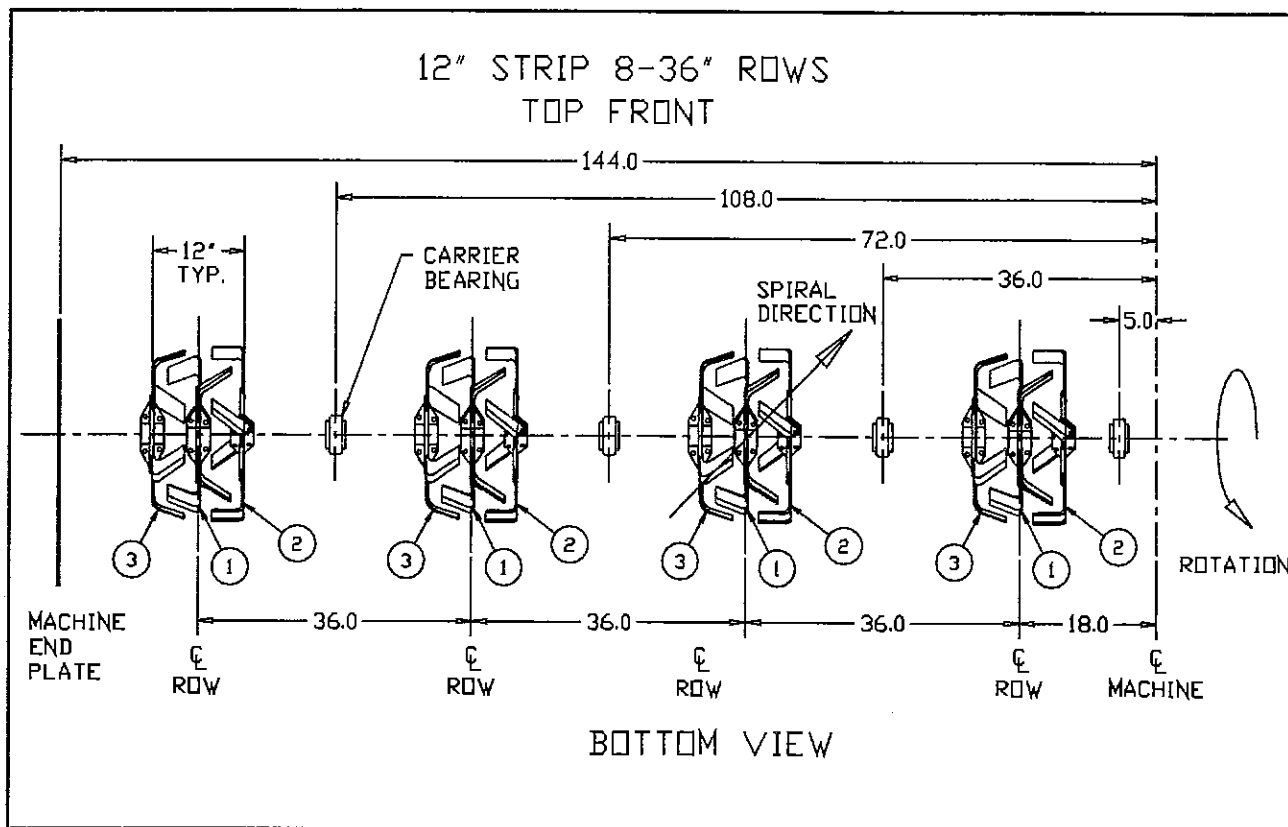


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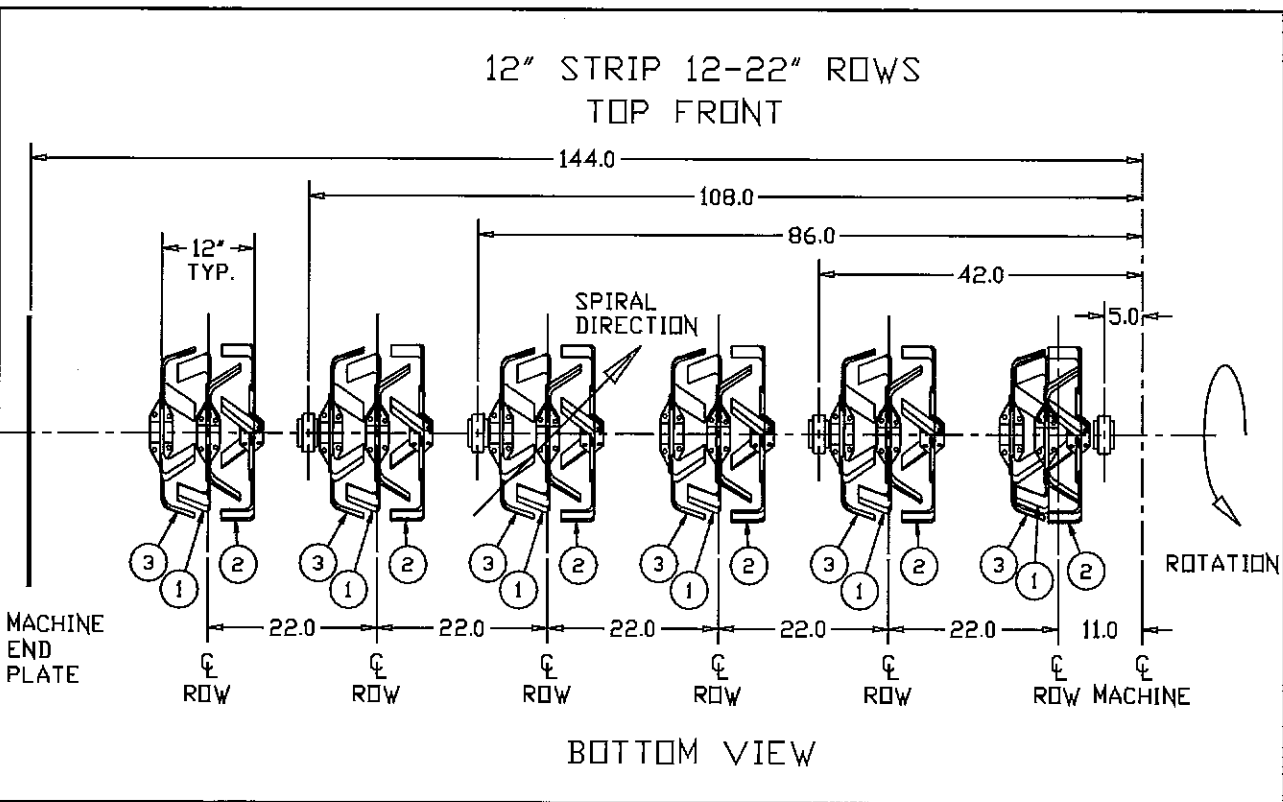
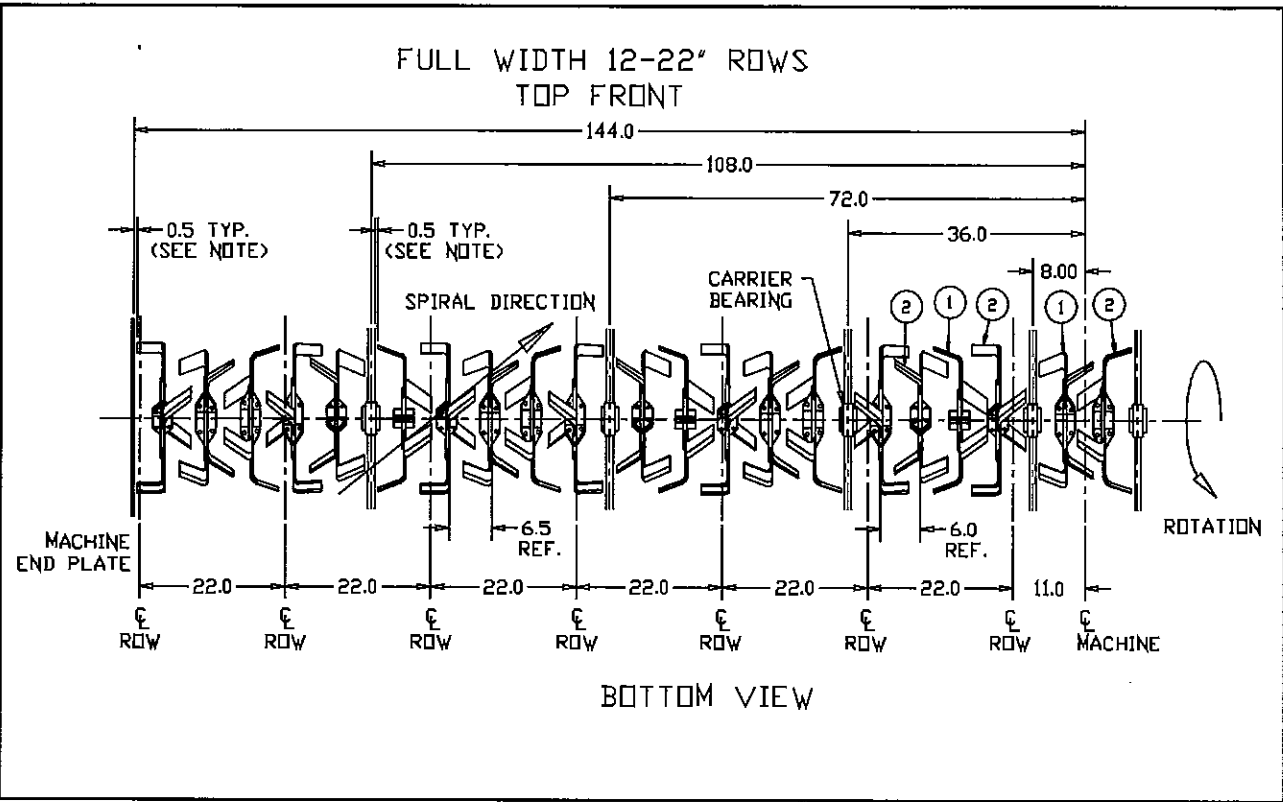


Ref. No.	No. Req.	Part No.	Description
4	160	014770	Bolt, HHCS, 1/2-13 x 1 1/2 GR5 ZN
3	160	V066518	Nut, Lock, 1/2-13 NC CAD PL
		385160	Rotor Subassy, Flat, Conv, TC
2	40	385140	Rotor Subassy, Flat, Conv, VC
		385120	Rotor Subassy, Flat, Conv, STD
		385150	Rotor Subassy, Point, Conv, TC
1	40	385130	Rotor Subassy, Point, Conv, VC
		385110	Rotor Subassy, Point, Conv, STD

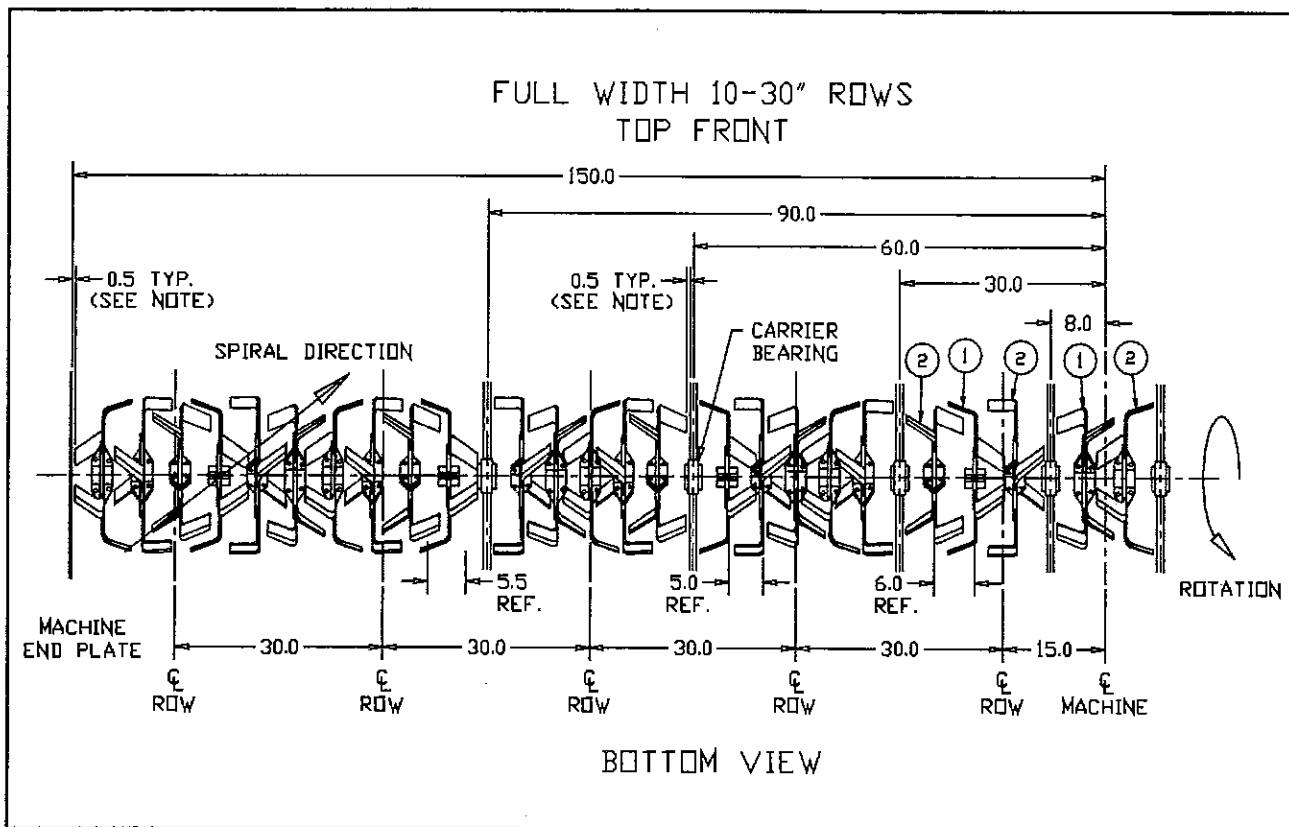
Assembly, Cont.



Assembly, Cont.

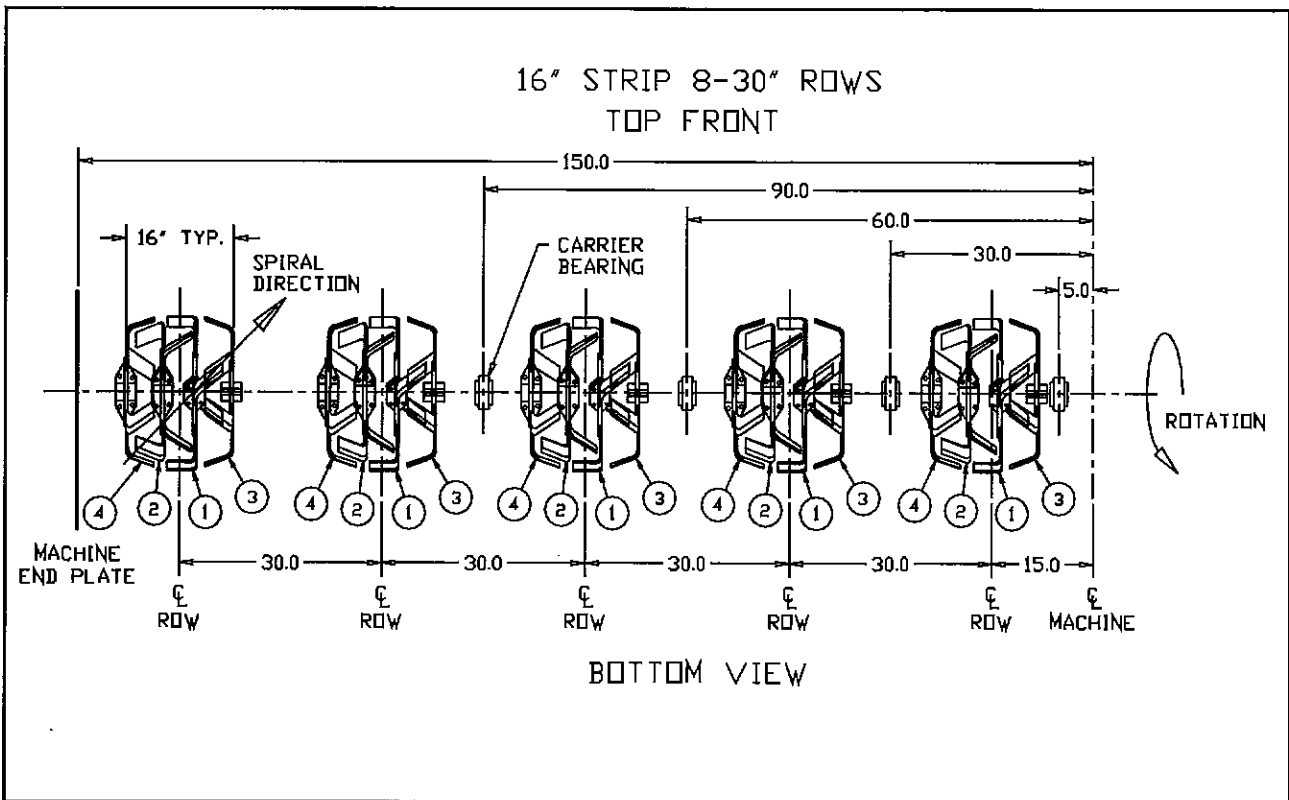
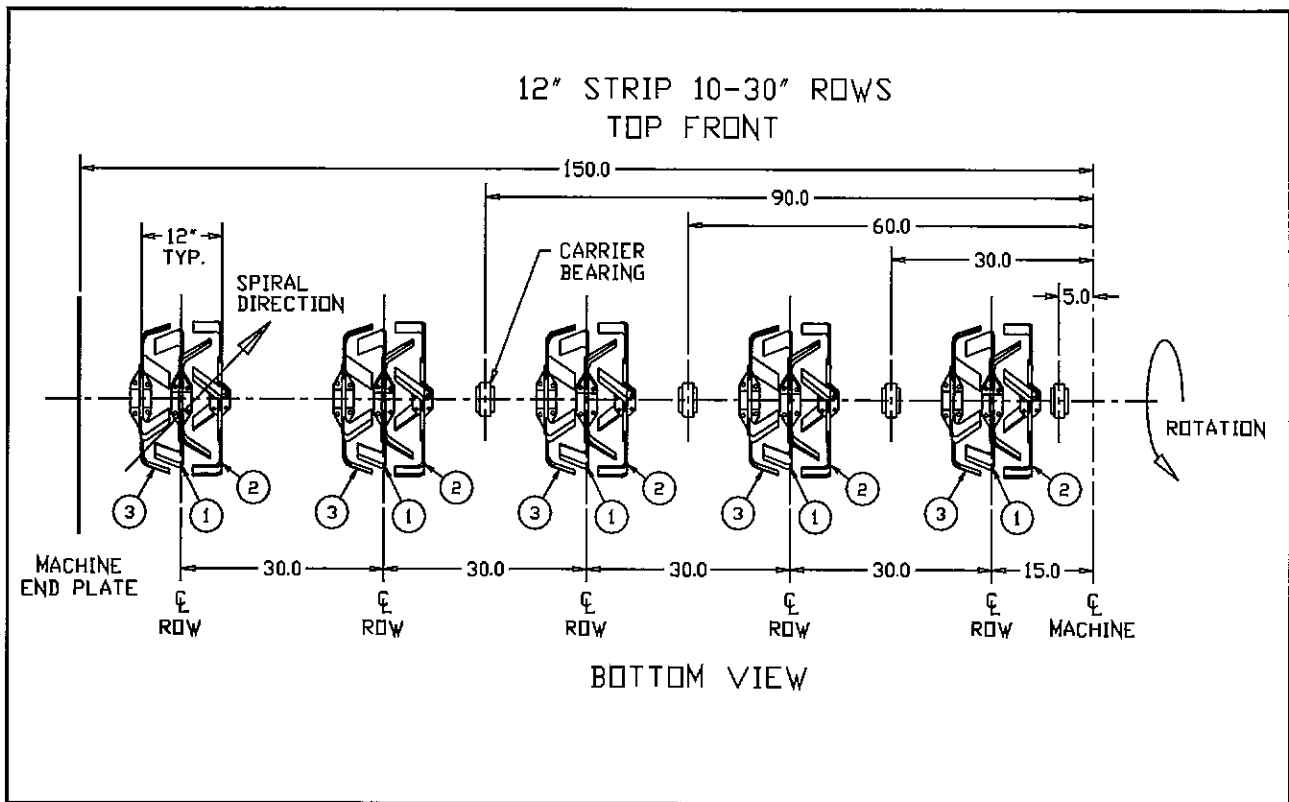


Assembly, Cont.



Ref. No.	No. Req.	Part No.	Description
4	192	014770	Bolt, HHCS, 1/2-13 x 1 1/2 GR5 ZN
3	192	V066518	Nut, Lock, 1/2-13 NC CAD PL
		385160	Rotor Subassy, Flat, Conv, TC
2	48	385140	Rotor Subassy, Flat, Conv, VC
		385120	Rotor Subassy, Flat, Conv, STD
		385150	Rotor Subassy, Point, Conv, TC
1	48	385130	Rotor Subassy, Point, Conv, VC
		385110	Rotor Subassy, Point, Conv, STD

Assembly, Cont.



Assembly, Continued

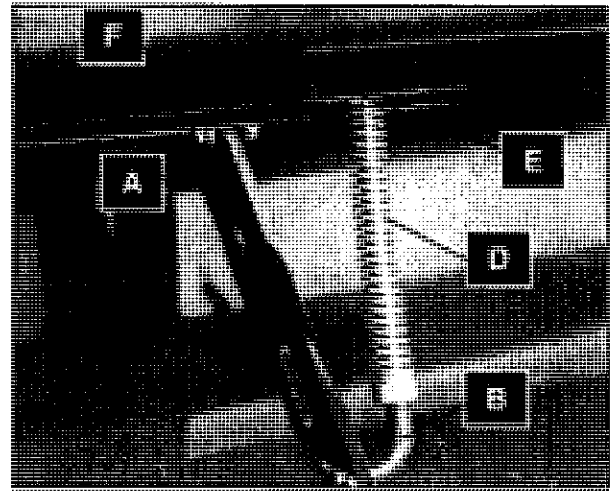
Tailgate Assembly

IMPORTANT - Be sure that tailgate mounting bars are installed on the **OUTSIDE** of the mounting lugs on the main frame, both side.

Assemble the tailgates using 7/8"x 7/16" bushings (A), a 1/2" flat washer, 1/2" x 1-1/2" Grade 5 bolts, and 1/2" lock nuts.

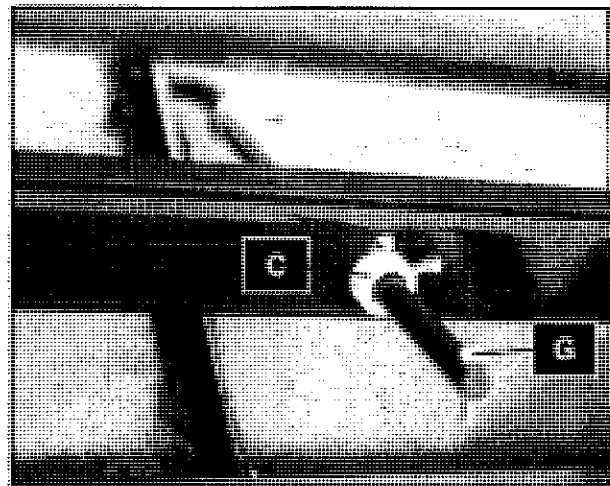
The rod (B) is secured to the tailgate with a 3/16" x 1-1/4" cotter pin.

Slide a set collar (C), along with a spring (D), on the rod.



- A) Bushing (V240056)
- B) Tailgate Rod (V240081)
- C) Set Collar (V240083)
- D) Spring (V240082)
- E) 1/2" Flat Washer
- F) 1/2" x 1-1/2" Grade 5 bolt
- G) 3/16" x 1-1/4" Cotter pin (003450)

Insert the rod through the support-channel hole in the frame and lock with a set collar (C), and a 3/16" x 1-1/4" cotter pin (G).



Assembly, Continued

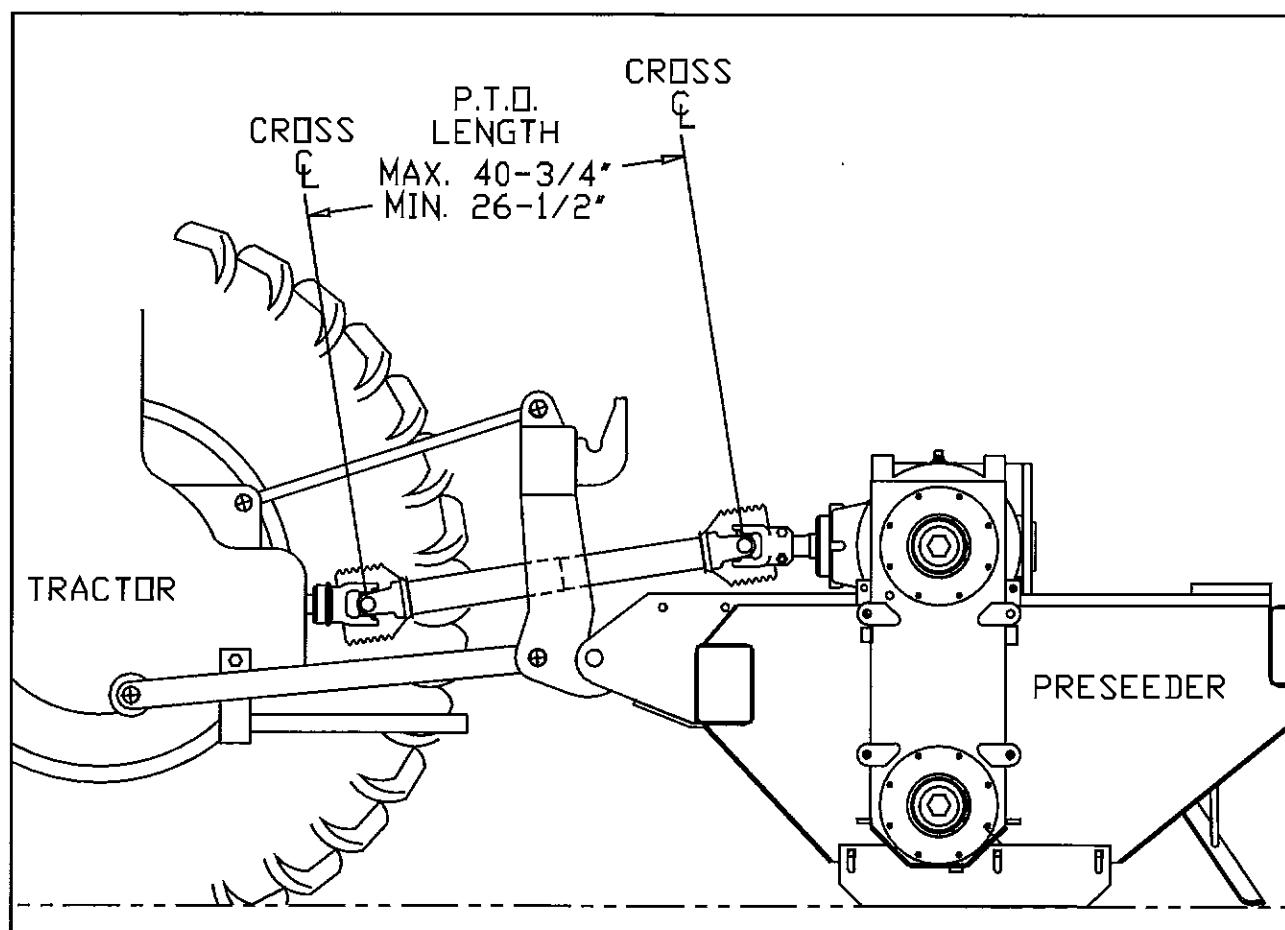


Figure 31. PTO Distance.

CAUTION

Shut off tractor before working with driveline or hitch fittings.

Quick Hitch

All models must be attached to tractor with a Category 2, 3, or 3-N quick hitch. The top hitch point of the quick hitch is not used.

A quick hitch must be used due to the PTO shaft angle.

The hitch pin is secured with two linch pins (E580104).

PTO

All five preseeders ^{rigid} require the use of tractors equipped with a 1000 RPM PTO. ^{Attach} PTO from preseeder to tractor. See Fig 31 for Minimum and Maximum PTO Length.

~~Do not use these drive lines on two-wheel drive tractors.~~

IMPORTANT!

If in doubt, check the measurement from the end of the PTO shaft to the centerline of the hitch pins. If it measures 29-1/2" or less, the long drive shaft cannot be used. A long shaft will work on measurements of 30" to 38" only.

If in doubt regarding the correct drive line for your tractor, contact your Eversman by Art's-Way Dealer for more information.

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Assembly, Cont.

two units centered and parallel to each other. An overhead  ne or forklift may be required to properly line up the machines.

Tighten all bolts to 240 ft.-lbs.

Connect the necessary hydraulic hoses and remove blocking stands.

MODEL 216 (6 Row - 36" spacing)

First and
second
fifth and
sixth

Position one lift-assist assembly between the ~~second and third~~ row unit, and the other between the ~~fourth and fifth~~ row unit. (Row unit placement is determined by counting left to right, looking from the rear of the planter.) ~~Using five (5) 7/8" x 10-1/2" Grade 8 bolts (V061720), connect the rear lift-assist assembly and lift-assist bracket (V240982) to the planter tool bar, placing the lift-assist to the rear of the tool bar and the bracket to the front of the tool bar.~~

LEAVE ALL BOLTS LOOSE AT THIS TIME

Repeat this procedure for the second lift-assist, and place it between the fourth and fifth row unit.

~~Install one planter support bracket (V240687) to the front of the planter tool bar directly in front of row unit No. 1. Install the second in front of row unit No. 6. Use two angle iron plates (V240674) per bracket and four (4) Grade 8, 7/8" x 10-1/2" bolts (V061720). The two angle iron plates should fit in-between the two angle iron supports, which attach the row unit to the tool bar. If this is not possible, move it toward the planter center line, but keep it as close to the~~

now
PAGE
30

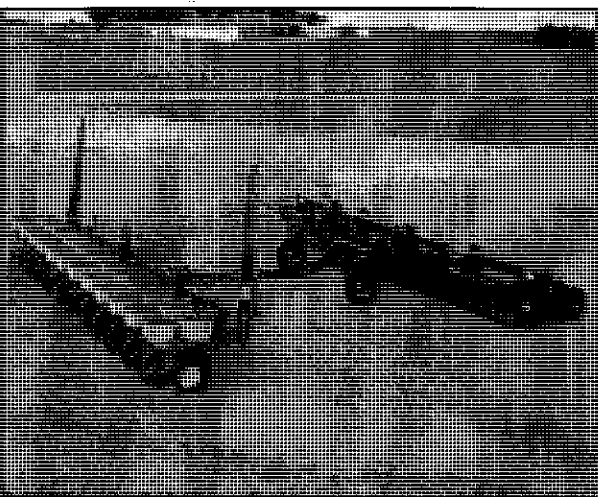


Fig. 33. Drawing of Planter

end of the tool bar as possible.

Back the preseeders to the planter, keeping the two units centered and parallel to each other. An overhead crane or forklift may be required to properly line up the machines.

The preseeders (^{7"}7" x ~~7"~~) tool bar should line up between the top and bottom holes of brackets V240982 & V240687. Couple the lift-assist bracket (V240982) and lift-assist plate (V240983) using five (5) 7/8" x 8-1/2" Grade 8 bolts. Then couple planter support bracket (V240687) to two angle iron brackets (V240674), using four (4) 7/8" x 8-1/2" Grade 8 bolts.

Tighten all bolts to 240 ft.-lbs.

Connect the necessary hydraulic hoses and remove blocking stands.

MODELS 240 & 288:

(240 - 8 Row - 30" spacing)

(288 - 8 Row - 36" spacing)

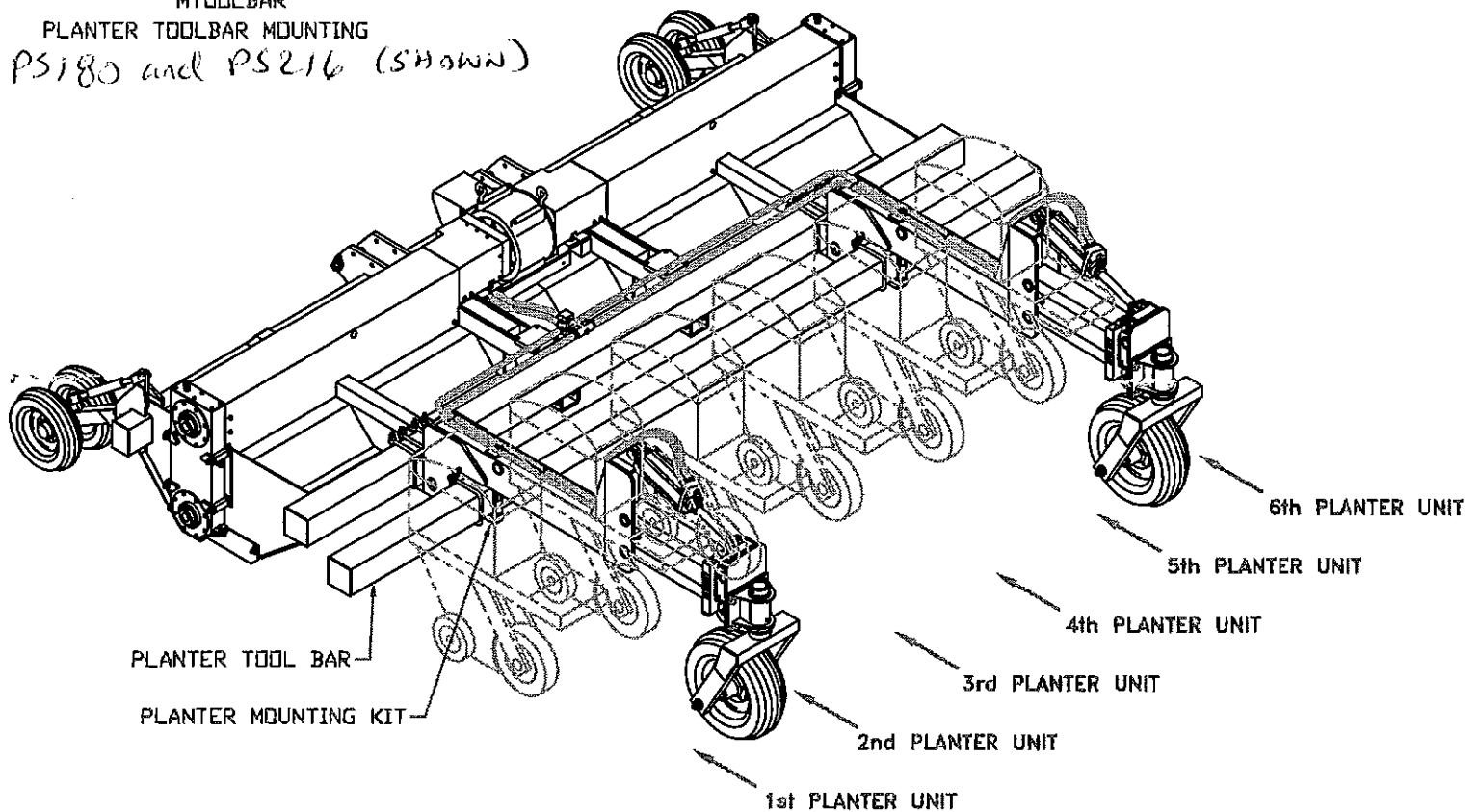
Position one lift-assist assembly between the second and third row unit, and the other between the sixth & seventh row unit. (Row unit placement is determined by counting left to right, looking from the rear of the planter.) Using five (5) 7/8" x 10-1/2" Grade 8 bolts (V061720), connect the rear lift-assist assembly and lift-assist bracket (V240982) to the planter tool bar, placing the lift-assist to the rear of the tool bar and the bracket to the front of the tool bar.

LEAVE ALL BOLTS LOOSE AT THIS TIME

Repeat this procedure for the second lift-assist, and place it between the sixth and seventh row unit.

Install one planter-support bracket (V240687) to the front of the planter tool bar directly in front of the row unit No. 1. Install the second in front of row unit No. 8. Use two angle iron plates (V240674) per bracket and four (4) Grade 8, 7/8" x 10-1/2" bolts. The two angle iron plates should fit between the two angle iron supports that attach the row unit to the 7" x 7" tool bar. If not, move it toward the planter center line, but keep it as close to the end of the tool bar as possible.

MT00LBAR
 PLANTER TOOLBAR MOUNTING
 PS180 and PS216 (SHOWN)



Model PS240 (8 Row - 30" Spacing)

Model PS288 (8 Row - 36" Spacing)

Position 1st and 2nd planter units to left of left lift assist. Position 3rd, 4th, 5th, and 6th planter units between lift assists, 7th and 8th planter units go to the right of the right lift assist.

Model PS300 (10 Row - 30" Spacing)

Position 1st, 2nd, and 3rd planter units to left of left lift assist. Position 4th, 5th, 6th, and 7th planter units between lift assists, 8th, 9th, and 10th planter units go to the right of the right lift assist.

Assembly, Cont.

Back the preseeder to the planter, keeping the two units centered and parallel to each other. An overhead crane or forklift may be required to properly line up the machines.

The preseeder (7" x ^{7"}~~7"~~) tool bar should line up between the top and bottom holes of brackets V240982 & V240687.

Couple the lift-assist bracket (V240982) and lift-assist plate (V240983) using five (5) 7/8" x 8-1/2" Grade 8 bolts.

Tighten all bolts to 240 ft.-lbs.

Connect the necessary hydraulic hoses and remove blocking stands.

Case IH Tool Bar Planters

The Case IH and previous IHC planters are

installed identically to the John Deere instructions, with the exceptions that the lift-assist brackets and the planter-support brackets are slightly longer in length than the John Deere components.

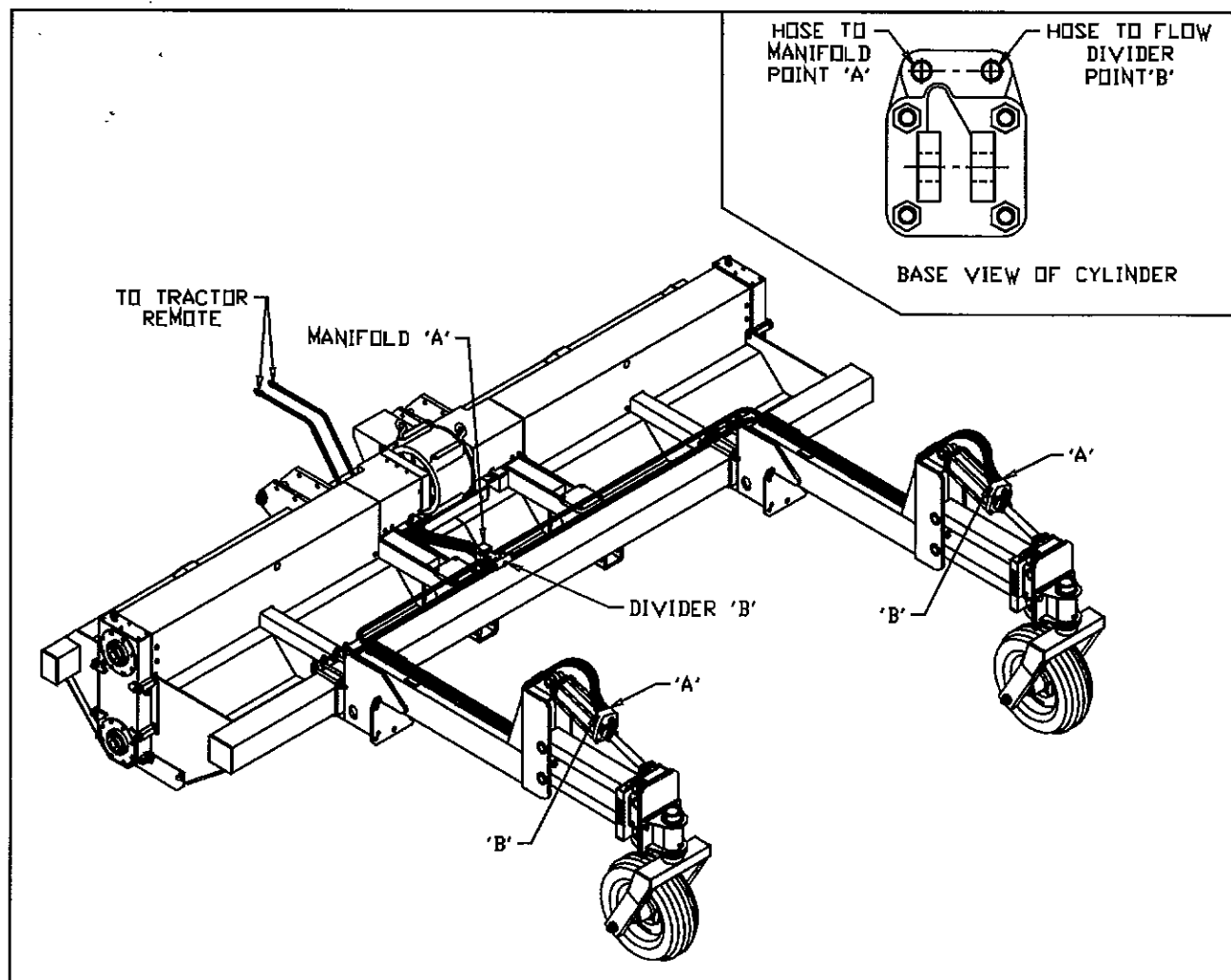


Fig. 1. Lift Assist hose routing

Attachments

Planter Installation

Any tool bar planter can be mounted on the preseeded long lift-assists with ~~the proper~~ mounting kit (390110), planter mounting kits are available through an authorized Eversman by Art's-Way Dealer.

Individual planter row units can also be mounted on the rear beam with 7" x 7" U-bolts. The planter drive and rear gauge wheels are not furnished by Art's-Way.

Planters can also be towed behind the preseeded with ~~either~~ a quick hitch (369030) ~~or option~~ drawbar hitch option (369100). Both options can be equipped with a hydraulic remote (375470, 375480, 385770, or 385780 depending on hitch type and hydraulic set-up).

ADD SPACE

⚠ WARNING!

Securely block the preseeded and planter frame prior to assembling units.

Mounting a John Deere 7100 or 7300 Tool Bar Planter

Park the planter on a level surface.

Support both ends of the planter using adequate blocking stands.

Remove the two (2) support stands from the planter's 7" x 7" tool bar and store for future use.

Relieve pressure from hydraulic circuit before disconnecting hoses!

MODEL 180 (6 Row - 30" Spacing)

Position the one lift-assist assembly between the ~~second and third~~ row unit, and the other between the ~~fourth and fifth~~ row unit (row unit placement is determined by counting from left to right, looking from the rear of the planter).

Back the preseeded to the planter, keeping the

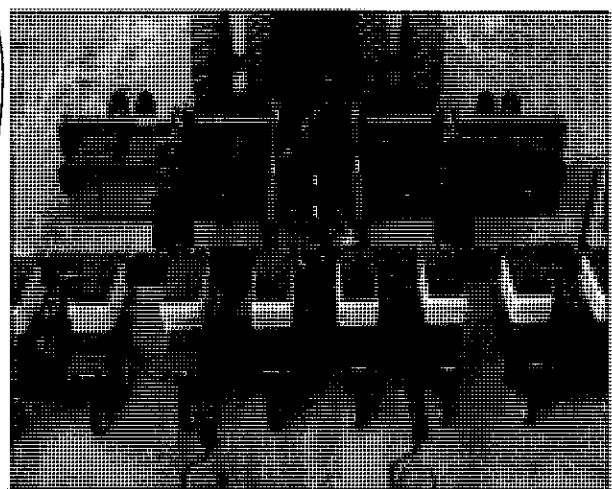


FIG 3E Quick Hitch

Tool Bar Mounting

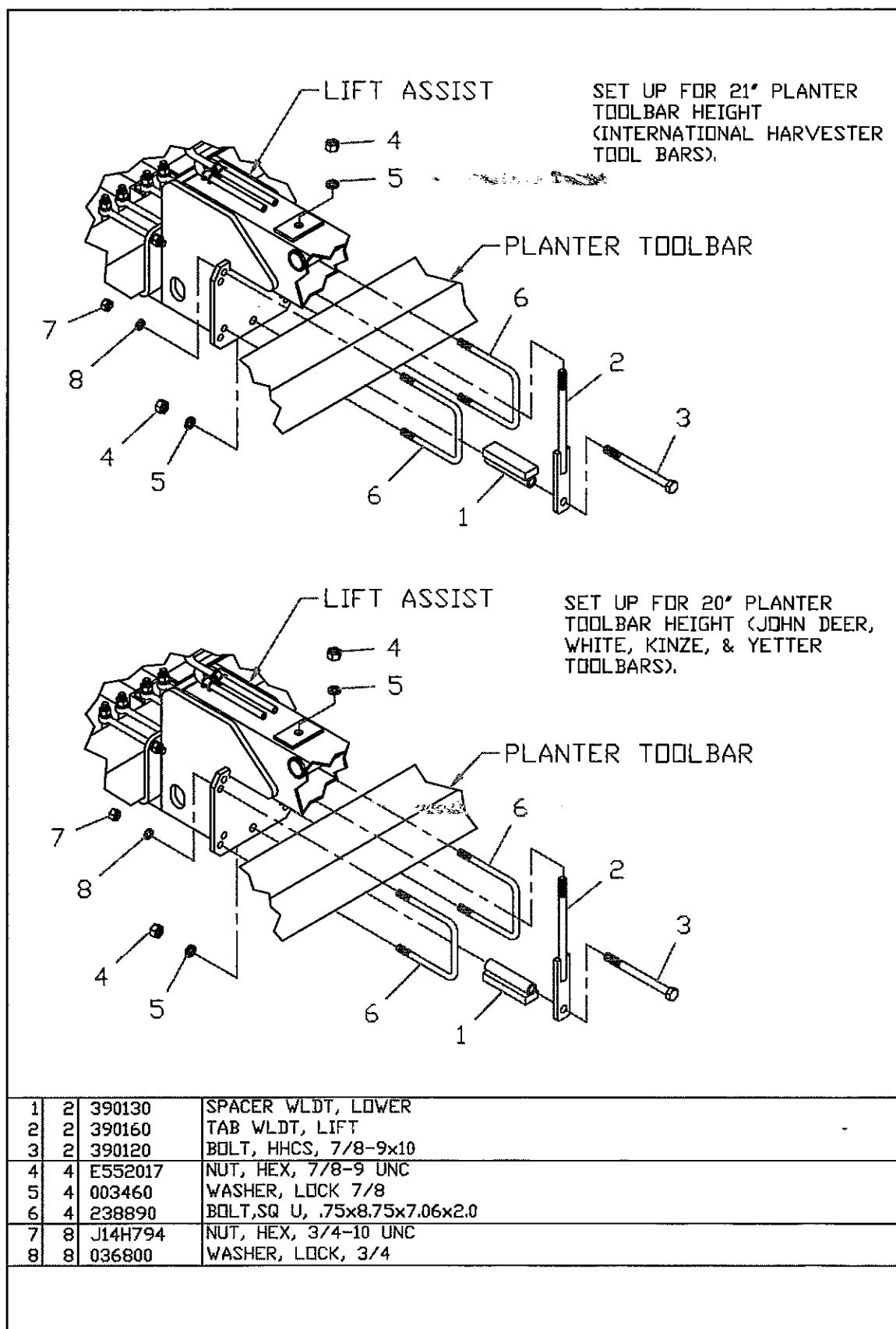
Position planter tool bar approximately 12" to the rear and centered on the preseeders. Raise

planter toolbar to under side of lift assists as shown in figure's? For 20" Planter Toolbar Height (John Deere, White, Kinze, & Yetter) ^{Figure?} ~~Mount~~

toolbar to lift assists in outer set of holes with $\frac{3}{4}$ " U-Bolts (238890), Lock Washers, and Hex nuts. Spacer (390130) is installed with flat portion down. Place lift tab (390160) up through hole in center of lift assists and secure with $\frac{7}{8}$ " lock washer and hex nut. Thread $\frac{7}{8}$ " bolt through lift tab, spacer, and bottom center hole on lift assist, secure with $\frac{7}{8}$ " lock washer and hex nut.

For 21" Planter toolbar Height (International Harvester) Figure?. Attach the same as 20" except that U-bolts go through inner set of holes and flat side of spacer is up.

PLANTER TOOLBAR SETUP



Field Operation and Adjustment

Before You Go To The Field

The preseeders hitch fittings are designed for Category 2, 3 or 3-N tractors. All models must be attached using a quick hitch due to the PTO shaft angle. Check PTO drive shaft for proper size and length. Serious damage can result if improper length is used. See PTO Section page 22. The top hitch point is not utilized. All models require a 1000 PTO RPM tractor.

Two heavy-duty rear lift-assist assemblies allow the machine to be raised easily with planters installed on the rear 7" x 7" frame. Only one hydraulic control valve is required on the tractor. Refer to the hydraulic circuit drawing, page 24, to be certain all hoses and fittings are properly assembled before attaching the front hoses to the tractor fittings.

Take the time to check all bolts and set screws to be certain they are thoroughly tight. Be sure the cotter pins are spread so they will not work loose.

Refer to the rotor ^{blade} ~~blade~~ setting instructions on pages ~~X~~ through ~~X~~ and carefully check to be sure the bolts are all tight and the blades are properly spaced for row width and type of tillage you desire.

All wire, twine, sticks, etc., should be removed around the rotors, and clean caked mud from bearing supports and end plates. Caked mud will wear blades, cause rusting, and require more horsepower.

Check all tires for proper inflation (25 PSI) gauge wheels and (50 PSI) lift-assist wheels. Be certain they are spaced correctly.

Refer to page ~~36~~ ^{33 and 34} for lubrication details and be sure all zerks have been properly greased.

Refer to your planter manual for information on proper operation and carefully check the spacings on the planters as well as the recommended height of tool bar.

Check gearbox and chain cases for proper oil levels - refer to page ~~26~~ ³³ and inspect tightness of chain case chains. There should be 1/2" to 3/4" slack. See page ~~30~~ ³³. Install vent plugs, (V240761), in top of chain cases.

Preparing And Adjusting The Tractor

The horsepower requirements are as follow:

PS180: 110 HP strip till, 130 HP solid till,
280 max. (Bandioli) 225 max. (Curtis)
PS216: 120 HP strip till, 140 HP solid till,
280 max. (Bandioli) 225 max. (Curtis)
PS240: 130 HP strip till, 150 HP solid till,
280 max. (Bandioli) 225 max. (Curtis)
PS288: 150 HP strip till, 180 HP solid till,
280 max. (Bandioli) 225 max. (Curtis)
PS300: 170 HP strip till, 200 HP solid till,
280 max. (Bandioli) 225 max. (Curtis)

The Preseeder Is Not Recommended For Use In Rocky Soils

For 30" row spacing plantings, set front and rear tractor wheels exactly on 60" spacing. For 36" row spacing, set tractor wheels on 72" spacing.

Refer to your tractor manual for complete instructions and add front-end weight for stability and steering control when operating the preseeders. In general, you will have to add front-end ballast so that approximately 1/3 the tractor weight, with preseeders attached, is on the front wheels.

Attaching To The Tractor

With the preseeders setting on firm, level ground, attach the lower hooks of the quick hitch to the hitch pins on the front frame. The inside of the lugs of the fitting are set for Cat. 2 or Cat. 3-N quick hitches, while the outside of the lugs will fit a Cat. 3 quick hitch. Secure the hitch pins with 7/16" lynch pins.

CAUTION

To prevent possible injury from high pressure hydraulic fluid, shut off tractor and move both control levers in both directions to relieve pressure before either connecting or detaching the hose couplers. Connect hoses for the lift-assist cylinders.

Operate the control valve to be certain the hydraulic circuit is functioning correctly and that there are no obstructions while lifting and lowering preseeders with the lift-assist assembly. The lift-assist cylinders extend to raise the machine.

Field Operation and Adjustment, Cont.

Transporting

CAUTION

Exercise extreme care when transporting on a gravel road, or on a road with soft shoulders. The preseeder is heavier than most rear-mount equipment, and slower speeds are advised to properly handle the tractor. Use a "Slow Moving Vehicle" sign at all times.

To lower machine, retract lift-assist cylinders, and lower 3-point hitch arms, until the machine is resting on the ground. Do not allow the 3-point hitch arms to drop too fast; you may need to refer to the tractor manual if an adjustment is required.

Adjustments And Operation

Setting Operating Depth

Move the preseeder to a firm, level surface and raise the machine with the lift-assists. Determine the depth you want to incorporate and plant, which will be approximately 3". Then place 2" x 4" and 1" x 4" boards under each front gauge wheel. Raise the gauge wheels with the ratchet jacks provided so you can then lower the preseeder to the ground, resting on the blades. Then lower the gauge wheels with the ratchet



jacks to rest on the boards. If planters are installed on the rear tool bar the depth of the planter gauge wheels is set in the same way. Leaving the machine resting on the blades, set a level on one of the preseeder main frame cross

tubes to be certain the machine is completely level. Then set the lift-assist wheels by being certain the frame is kept level. Check planter manual for proper settings of planting depth.

Checking Depth

Pull into the field, stop the tractor, lower the preseeder, and turn on the PTO. Then turn off the PTO, raise the machine, and check the depth where the blades have worked. Also be certain that the stubble is being cut and moved away from the path of the planters. If depth is not what you desire, adjust up or down by moving all ratchet jacks and adjustment screws the same amount. Continue checking until desired depth has been established. The recommended depth is the depth you are planting, 2" to 3". Do not try to plow with this machine — running too deep produces excessive blade wear and waste of fuel.

IMPORTANT

When planters are installed, all the weight of the preseeder will be on the front-gauge wheels and the planter-gauge wheels. No weight is carried on the tractor hitch. Only when planters are installed, set the tractor control lever in the "float" position for the lift-assist wheel hydraulic circuit. When planters are not installed, the weight is carried on the front-gauge wheels and the lift-assist wheels, and the tractor control lever is set in the neutral position.

Ground Speed

When engaging PTO clutch to start operation of the preseeder, be sure tractor engine is at low RPM and the rotor blades are above the ground. Damage may result if PTO angle is too sharp or if blades are in the ground when PTO is engaged. Lower the machine slowly to the ground and gradually increase PTO RPM to 1000 as the tractor is moved forward. If the machine is suddenly dropped, serious damage may result.

The ratio of rotor speed to ground speed is critical for smooth operation, and for efficient herbicide incorporation. At 1000 RPM on the tractor PTO, the rotor turns at 270 RPM. The recommended ground speed corresponding to

Field Operation and Adjustment, Cont.

that is 4-1/2 to 5 MPH. Operating at any other speed will result in "rippling", uneven depth, or inconsistent herbicide incorporation. Refer to tractor operator's manuals for proper gear to run to achieve the 4-1/2 to 5 MPH speed at 1000 PTO RPM only on the tachometer. If in doubt, check PTO speed with a separate instrument. Heavy residue or soil conditions may require a slightly slower ground speed.

Tailgate Adjustment

28 There is sufficient adjustment of the tailgates to obtain the desired amount of smoothing of the seedbed ahead of the planters. The tailgate spring pressure is increased by moving the lower set collar on the spring rod higher on the rod. (See page 34, Item C). Be sure rods are straight and tailgate panels are not bent. Replace worn plates if necessary.

Chain Type Shear Pin Coupling

If a shear bolt breaks, stop the tractor immediately and turn off the PTO. Raise the machine out of the ground, lift hinged shields at sheared coupler and remove pieces of the broken bolt. Turn the upper shaft until the holes on the coupler matching flanges line up. Install two 3/8" x 2" Grade 5 bolts and replace safety shields. Check chains for loose or worn pins and replace if necessary. The machine is then ready for operation.

Rotor Blades & Holders

Check tightness of rotor bolts and blade bolts twice daily the first two days of operation. If necessary to tighten to 90 ft.-lbs.

Maintenance and Storage

End of Season

Clean all dirt, trash and crop residue from machine and repaint all spots which might show rust. Check oil in chain cases and gearbox, and change if contaminated. Grease PTO drive shafts and chains in shear pin coupling, and be certain they all move freely. Inspect carefully for missing or broken parts and order immediately. Be sure to give dealer the serial number of your preseeders so you can be assured of receiving correct parts.

Storage

If possible, move preseeders under cover to prevent excessive corrosion and weathering.

Block up frame, front and rear, to remove weight from tires.

Rotor Blades & Holders

33 and 34 Check and tighten all bolts, set screws, cotter keys, etc. Be sure all points are lubricated properly. Refer to page 36. Check lug bolts in gauge wheels and grease zerks in ratchet jacks. Before going to the field, run machine a few minutes to be certain there are no loose parts, or misalignments, which would produce unusual noises. It's easy to forget from year to year — so review this preseeders manual in careful detail to obtain the best possible operation from your machine.

Troubleshooting

If shear bolts break too frequently, hex shaft may be out of alignment. To correct, loosen pillow blocks by chain coupler - run slowly to align, then retighten pillow block bolts.

Condition: "Rippling" - "machine hopping"

Cause: Rotor speed too fast for ground speed.

Cure: Check PTO RPM - 1000 only. Increase ground speed by going to a higher gear. If sufficient power is not available, reduce tractor RPM slightly.

Cause: Ridges crosswise to direction of travel.

Cure: Order optional walking beam gauge wheels and lower tire pressure.

Condition: Excessive vibration or noise from under machine.

Cause: Lower rotor hex shaft may have gotten knocked out of alignment. Loosen carrier bearing bolts and realign.

Cause: Rotors or blades loose. Retighten to 90 ft.-lbs. torque. If they have moved along shaft, they may be hitting on the frame or supports. Move to correct position and retighten.

Condition: Chain case excessively noisy.

Cause: Chain overtight. Proper tension is 1/2" to 3/4" slack when checked through pipe plug in the side of case. If overtight, the chain can break or wear quickly.

Cure: Loosen chain tightener bolt.

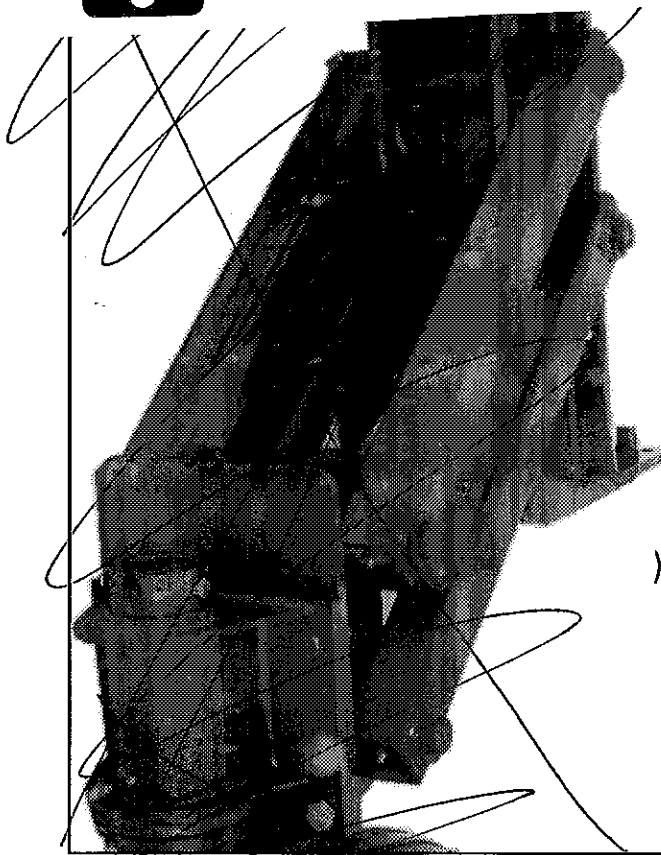
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Lubrication

Economical and efficient operation of any machine is dependent upon regular and proper lubrication of all moving parts with a quality lubricant. Failure to lubricate results in reduced efficiency, premature wear and breakdown, and needless and costly replacement of parts.



CAUTION: Disengage drive, shut off tractor, and place key in pocket before lubricating the machine.



PTO Figure 1. Start lift assist

Grease zerks on PTO drive shaft every 4 hours. Be sure drive shaft telescopes freely. Grease should be expelled from all 4 ends of crosses. Keep pumping grease in zerks until grease appears outside of all 4 bearings. Lubricate zerks in all ratchet jacks before start of season.

Gear Box

Check oil level in gear box once a year. It should not be filled above the level of the hex shaft. Use gear box oil SAE-90, extreme pressure. Any good differential type oil is satisfactory.

ⓓ Every ten (10) hours:
1. Grease PTO ~~U-joints and shields~~

3. ~~Gauge wheel hubs~~
4. Grease lift assist hinge ~~points~~
5. Grease pivot points

2. Check end drive chain cases oil level.

• ~~Quick hitch pivot points~~
(if used)

• ~~Draw bar pivot points~~ (if used)

Ⓦ Every fifty (50) hours:

1. Grease Upper drive line bearings

2. Grease Quick hitch pivot points (if used)

3. Grease Draw bar pivot points (if used)

Ⓐ Annually (once a year)

1. Grease Gauge wheel hubs

2. Grease Ratchet jacks zerks and ~~threads~~

3. Grease Gauge wheel pivot points - *Walking tadden only

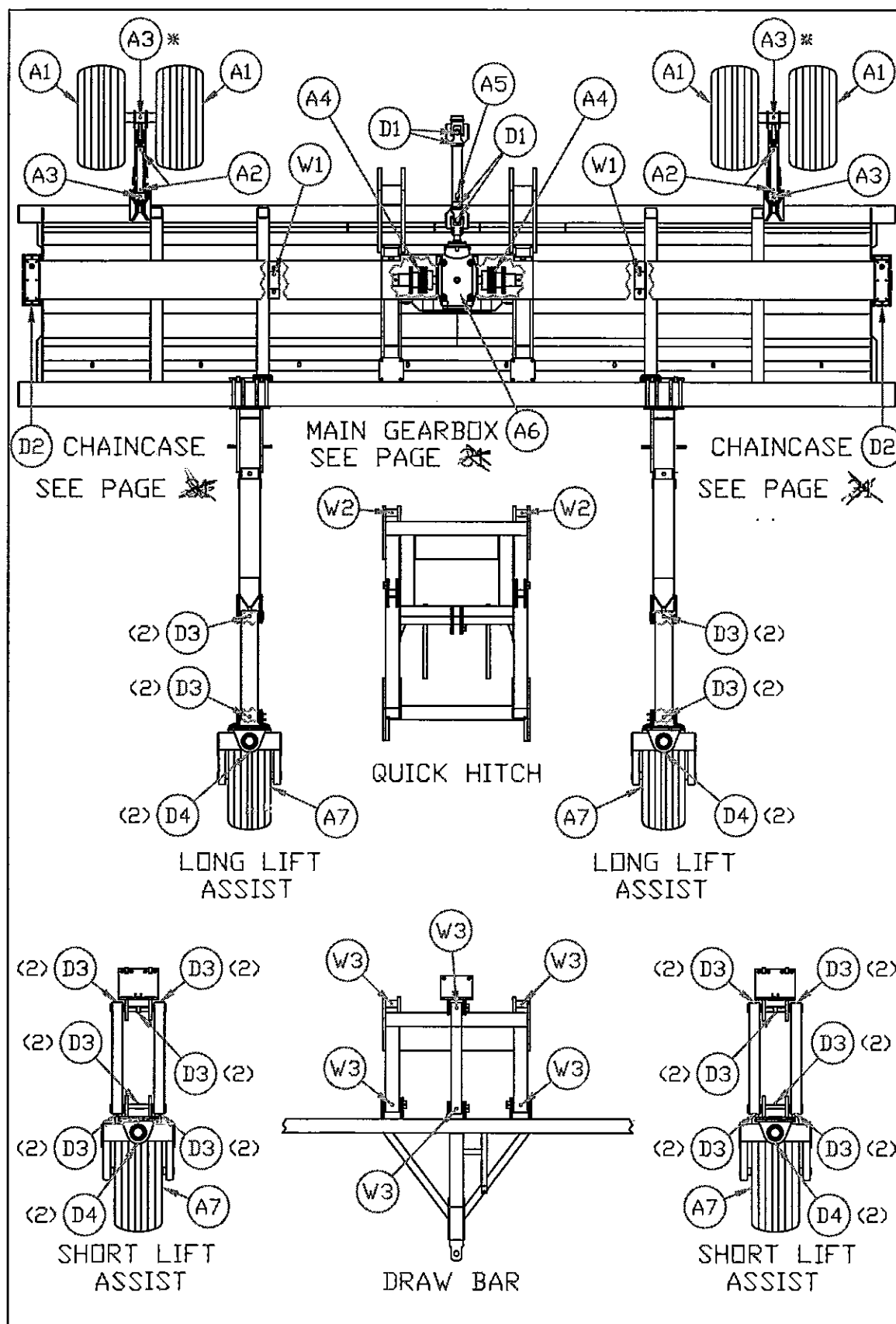
4. Grease Coupler chains

5. Check oil level in main Gearbox

6. Grease lift assist hubs

~~Do not grease to any seal~~

LUBRICATION ORDER



TXTSIZE (1)

Lubrication, Cont.

Gear Box

Check oil level in gear box once a ~~year~~^{year}. It should not be filled above the level of the hex shaft. Use gear box oil SAE-90, extreme pressure. Any good differential type oil is satisfactory.

IMPORTANT - of Curtis Gearbox (V240600)
IMPORTANT - Before operation, install vent plug (V240762) at point A on right hand side of gear box. Check chain case lubricant every 10 hours. Fill to level of pipe plug at point A. Use SAE-90W gear oil.

fill level plug in figures
 ? and ?.

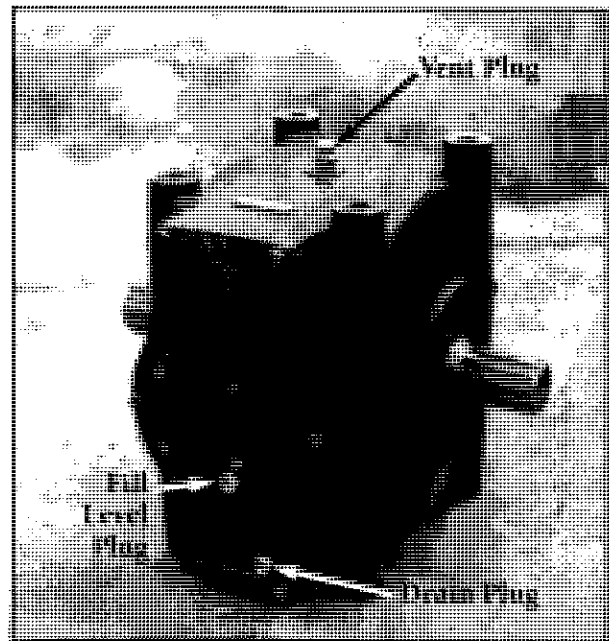


Figure 2. BONDOLI Gearbox P/N 389320

Chain Case

Check chain case lubricant every 10 hours. Fill to level of pipe plug at point B. Use SAE-90W gear oil. Drain plug is on bottom of chain case.

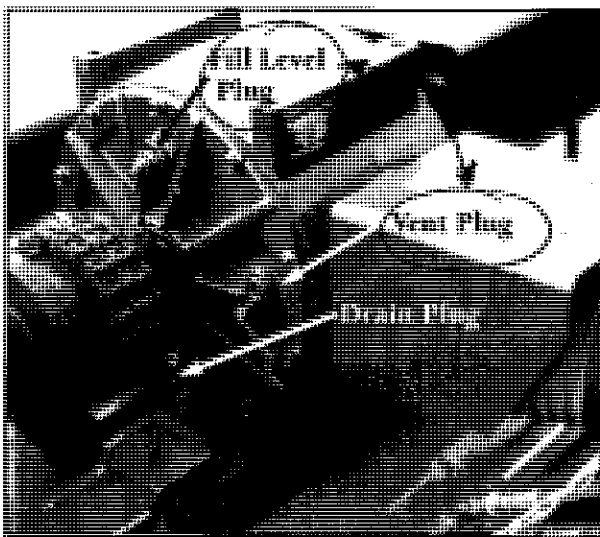


Figure 3. CURTIS Gearbox P/N V240600

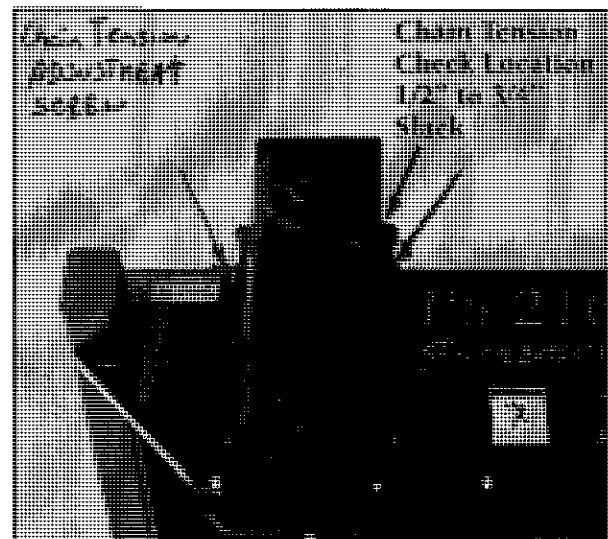
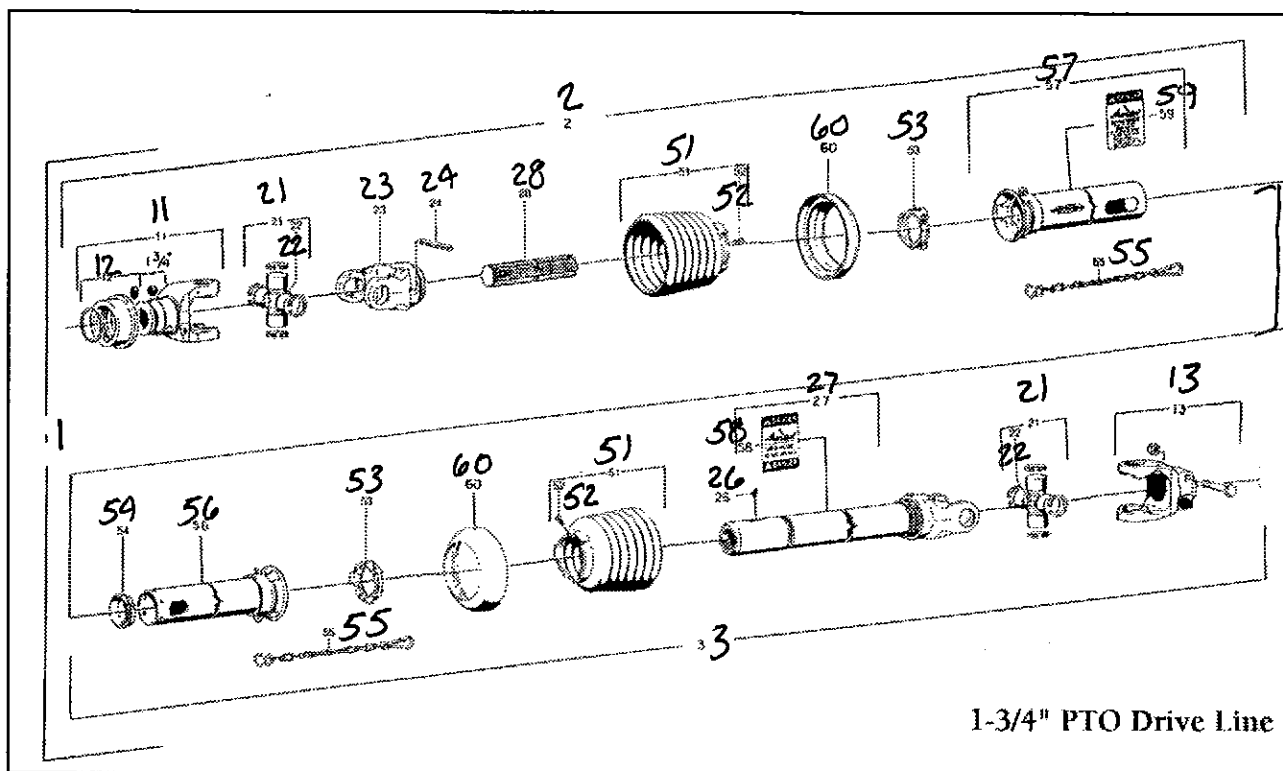


Figure 4. Chain Tensioner
 Drain Plug
 Fill level plug

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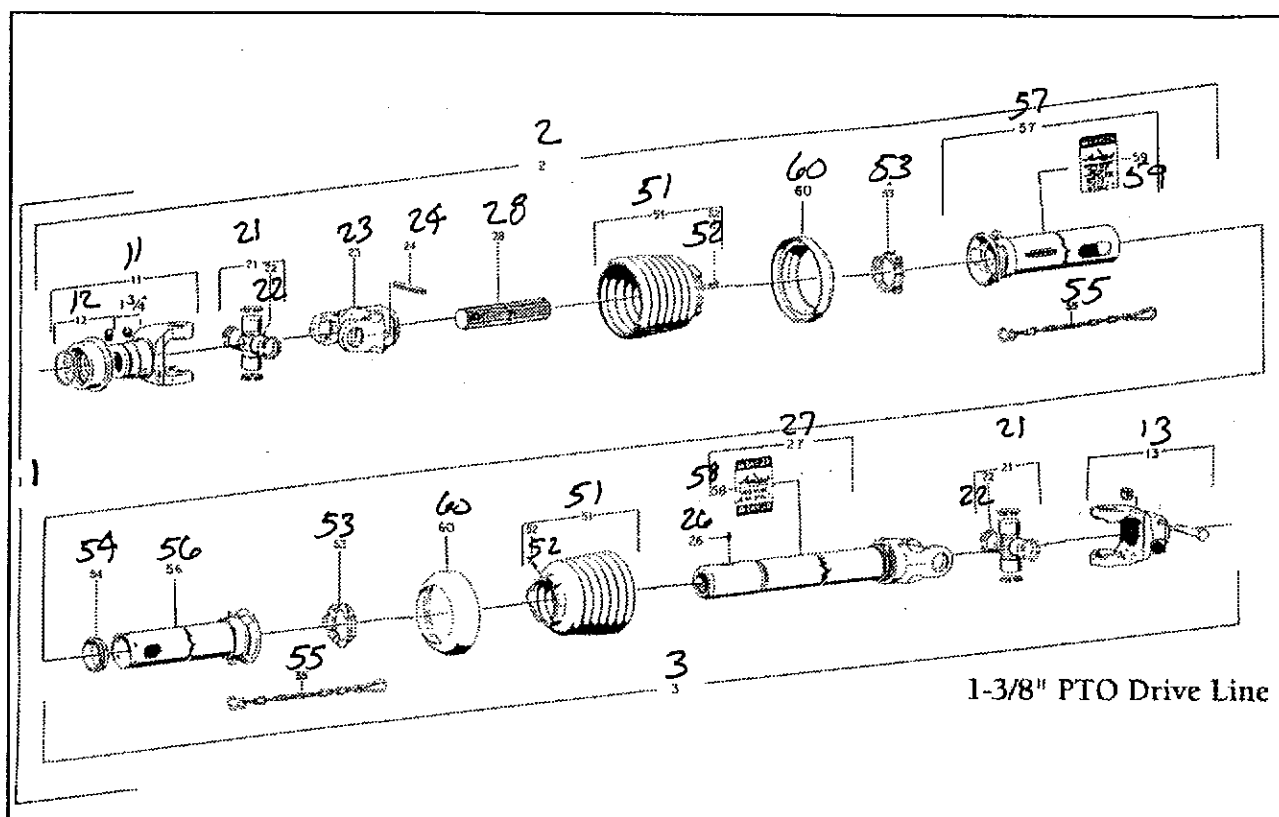
PTO Assembly - 1-3/4"



Ref. No.	No. Req.	Part No.	Description
1	1	352280	PTO Drive Shaft with Shielding
2	1	352650	PTO Half Shaft with Shielding
3	1	352640	PTO Half Shaft with Shielding
11	1	352690	End Yoke
12	1	340200	Quick Disconnect Kit - In Item 11
13	1	352700	End Yoke
21	1	352680	Cross & Bearing Kit 352680
22	1		Grease Zerk - In Item 21
23	1		Inboard Yoke
24	1		Spring Pin
26	1	1102467H	Grease Zerk
27	1		Inboard Yoke, Tube & Sleeve W.A.
28	1		Splined Profile
51	1		Shield Cone 7 Rib
52	1	345980	Screw - In Item 51
53	1		Bearing Ring
54	1		Shield Support
55	1	182890	Safety Chain
56	1		Inner Shield Tube W/Cap
57	1		Outer Shield Tube W/Cap
58	1	340180	Danger Decal, Inner - In Item 27
59	1	268860	Danger Decal, Outer - In Item 57
60	1		Reinforced Collar

OK

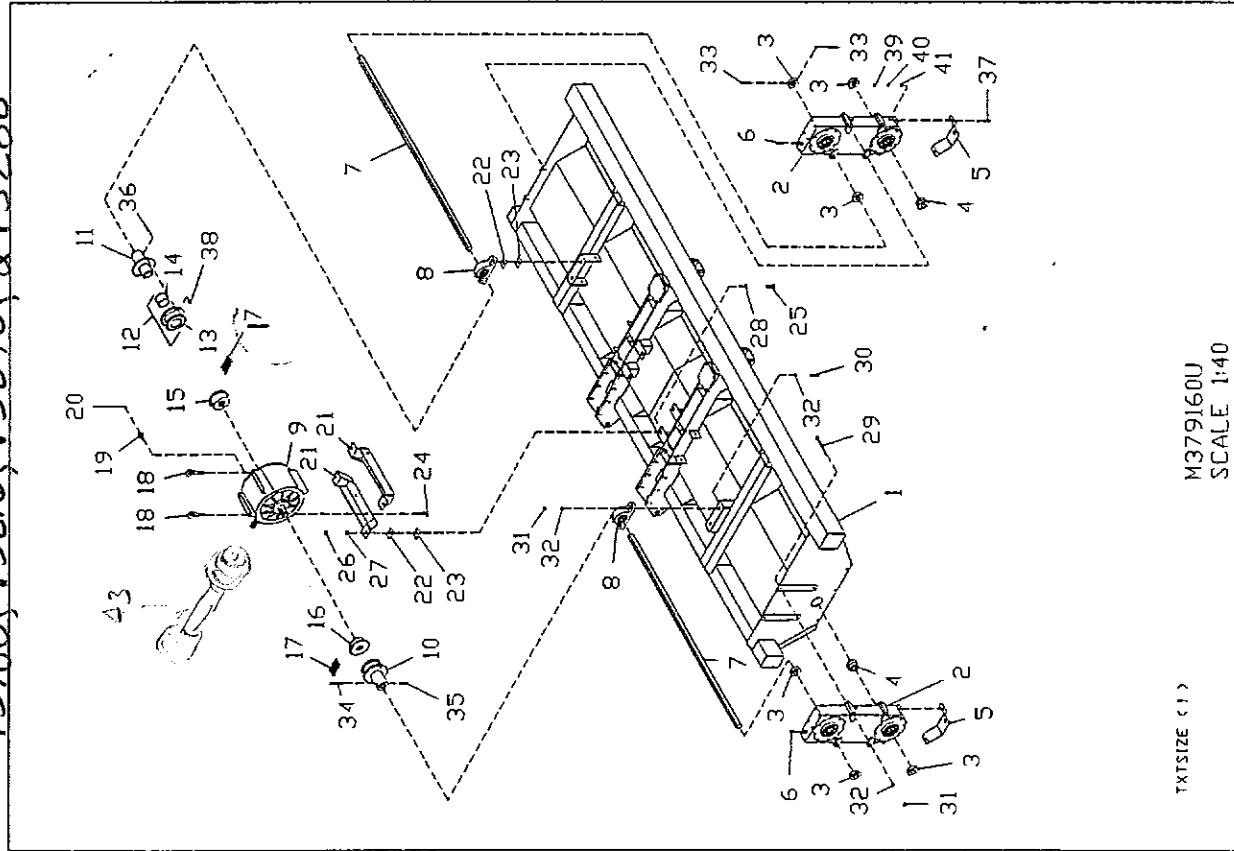
PTO Assembly - 1-3/8"



Ref. No.	No. Req.	Part No.	Description
1	1	352270	PTO Drive Shaft with Shielding (1-3/8")
2	1	352660	PTO Half Shaft with Shielding
3	1	352640	PTO Half Shaft with Shielding
11	1	352670	End Yoke
12	1	340210	Quick Disconnect Kit - In Item 11
13	1	352700	End Yoke
21	1	352680	Cross & Bearing Kit 352680
22	1		Grease Zerk - In Item 21
23	1		Inboard Yoke
24	1		Spring Pin
26	1	1102467H	Grease Zerk
27	1		Inboard Yoke, Tube & Sleeve W.A.
28	1		Splined Profile
51	1		Shield Cone 7 Rib
52	1		Screw - In Item 51
53	1		Bearing Ring
54	1		Shield Support
55	1	182890	Safety Chain
56	1		Inner Shield Tube W/Cap
57	1		Outer Shield Tube W/Cap
58	1	340180	Danger Decal, Inner - In Item 27
59	1	268860	Danger Decal, Outer - In Item 57
60	1		Reinforced Collar

UPPER DRIVE ASSEMBLY

PS180, PS216, PS240, & PS288



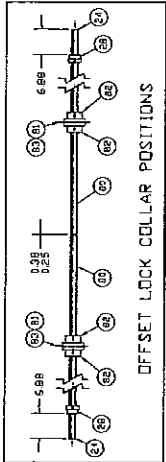
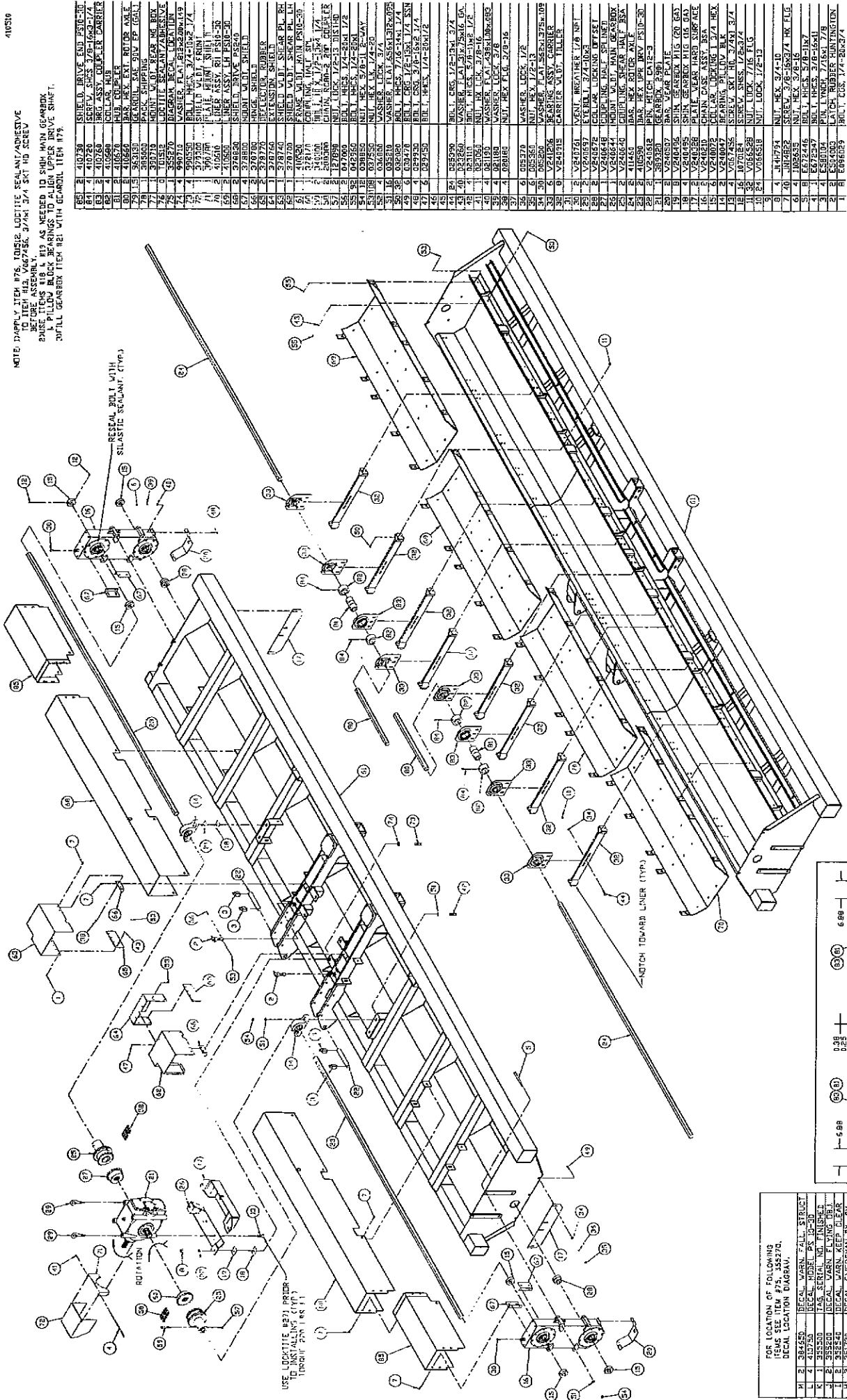
M379160U
SCALE 1:40

TEXT SIZE (1)

1	1	374520	FRAME WLDT, MAIN PS180 (SHOWN)
		374530	FRAME WLDT, MAIN PS216
		374540	FRAME WLDT, MAIN PS240
		374550	FRAME WLDT, MAIN PS288
2	2	V240210	CHAIN CASE ASSY, BSA
3	6	V240072	COLLAR, LOCKING 1 3/4 HEX
4	2	V240072	COLLAR, LOCKING OFFSET
5	2	V240507	BAR, VEAR PLATE
6	2	V240761	VENT, BREATHER 1/8 NPT
7	2	V240825	BAR, HEX UPDR DRIVE PS180 (SHOWN) 82.88"
		V241628	BAR, HEX UPDR DRIVE PS216
		V240619	BAR, HEX UPDR DRIVE PS240 112"
		V240927	BAR, HEX UPDR DRIVE PS288
8	2	V240047	BEARING, PULDOV BLK
9	1	V240609	GEARBOX, MODEL 6019
10	2	V240510	COUPLING, STEAR HALF BSA
11	-	V240590	COUPLING, HALF HEX MACHINED
12	-	V240593	COUPLING HALF, SPROCKET PSA
13	-	V240595	BUSHING, SINTERED BRONZE
14	-	V240636	COUPLING, HALF SPLINED
15	1	V240648	COUPLING, HALF SPL
16	1	372170	CHAIN, RC80-2 20P COUPLER
17	2	288380	EYEBOLT, 3/4-10x3
18	2	V240597	BUSH, 3/4NPTx178NPT
19	1	J15H1518	PLUG, VENT PRESS RELIEF 254210
20	1	V240762	MOUNT WLDT, MAIN GEARBOX
21	2	V240544	SHIM, GEARBOX MTG (16 GA)
22	4	V240495	SHIM, GEARBOX MTG (20 GA)
23	8	V240496	SCREW, SKT HD, 3/4x1 3/4
24	4	V067456	BOLT, HHCS, 3/4-10x2 1/4
25	-	990550	NUT, HEX, 3/4-10
26	-	J14H794	WASHER, LOCK, 3/4
27	-	036800	WASHER, FLAT, 812x200x1.79
28	-	990710	BOLT, HHCS, 5/8-11x7
29	-	E672446	BOLT, HHCS, 5/8-11x2 1/2
30	-	023110	NUT, HEX, 5/8-11 2-WAY
31	-	038850	WASHER, FLAT, 656x1312x.095
32	-	035210	SCREW, SHSS, 1/2x1/2
33	-	V067108	BOLT, HEX, 1/2-13x4 1/4
34	-	340300	NUT, LOCK, 1/2-13 B1STHD
35	-	127890	BOLT, HHCS, 3/8-16x2 1/4
36	-	037790	BOLT, CRG, 3/8-16x2 1/4
37	-	029930	NUT, HX LCK, 3/8-16
38	-	023060	NUT, HEX, 3/8-16
39	-	102635	WASHER, LOCK, 3/8
40	-	021180	WASHER, FLAT, 438x100x.083
41	-	021190	LOCTITE SEALANT/ADHESIVE
42	-	101512	PTG 1-3/4-20
43	-	352285	
44	-		
45	-		
46	-		
47	-		
48	-		
49	-		
50	-		

PS10-30/PS300

NOTE: APPLY ITEM #75, 100512, LOTTIE SEALANT/ADHESIVE TO ITEM #13, V66755A, 3/4" X 3/4" X 1/2" SCREW BEFORE ASSEMBLY. PAIRS ITEMS #18 & #19 AS NEEDED TO SHIM MAIN GEARBOX SHAFTS TO OBTAIN PROPER SHAFT ALIGNMENT. APPLY ITEM #75 TO FULL GEARBOX ITEM #81 WITH GEARBOX ITEM #75.



FOR LOCATION OF FOLLOWING PARTS SEE DRAWING PS10-30/PS300.	
ITEM #	DESCRIPTION
1	DECAL, WARN, FALL, STRUCT
2	DECAL, WARN, FALL, STRUCT
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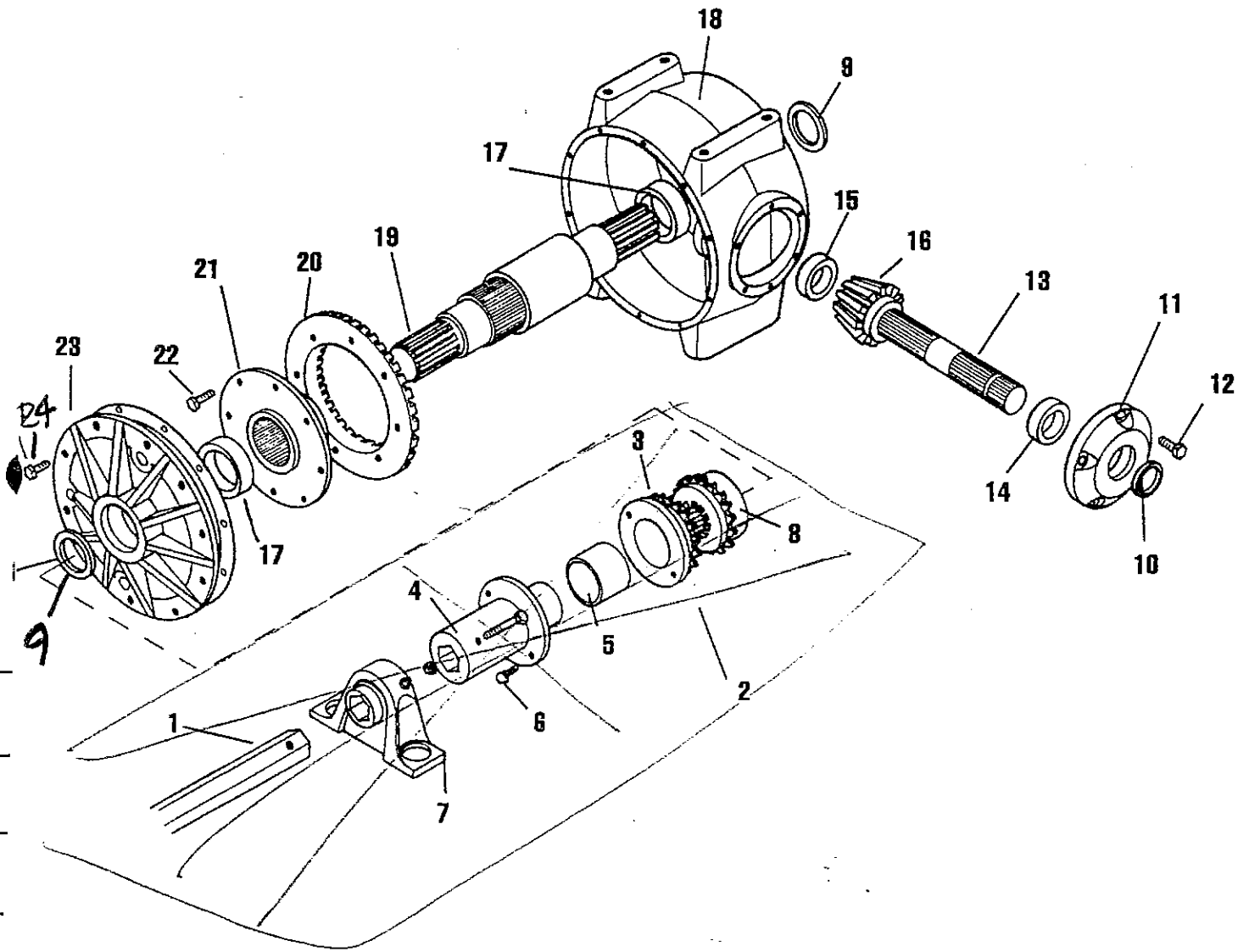
GEARBOX, DRIVE V240600

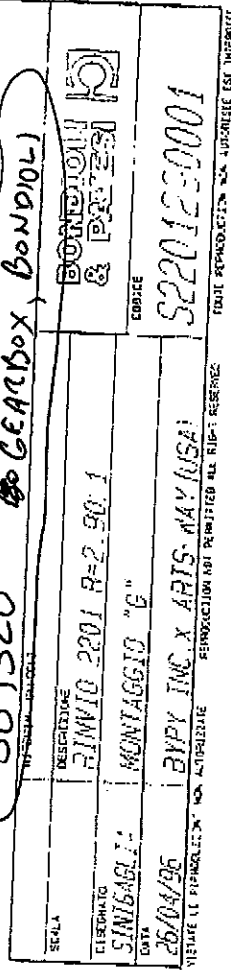
CURTIS

	Gear Box	V240600	1	All
1	Upper 1-3/4" Drive Shaft - 136"	V240927	2	288
-	Upper 1-3/4" Drive Shaft - 112"	V240619	2	240
-	Upper 1-3/4" Drive Shaft - 105 3/4"	V241628	2	216
-	Upper 1-3/4" Drive Shaft - 82 7/8"	V240825	2	180-C
2	Coupling Roller Chain #80-2	V240651	2	All
-	Connecting Pin	V240656	2	All
-	Coupling Assy., Shear Pin Half	V240640	2	All
3	Sprocket Coupling Half	V240695	2	All
4	Hex Sleeve Coupling Half	V240690	2	All
5	Bushing, Sintered Bronze (not Shown, Inside)	V240636	2	All
6	3/8" x 2" GR.5 Shear Bolt	V055918	2	All
7	Pillow Block Bearing Assembly	V240047	2	All
-	Bearing	V240061	2	All
-	Housing	V240063	2	All
8	Splined Sprocket	V240648	2	All
9	Output Seal 2-5/8" Output Shaft	V240887	2	All
10	Input Seal	V240886	1	All
-	Gearbox Bearing & Seal Kit 2-1/2" Output Shafts	V241179	1	All
11	Output Cap	V241273	1	All
12	Sems Cap Screw	184750	8	All
13	Integral Gear Shaft	V241272	1	All
14	Bearing Cone	V241091	1	All
	Bearing Cup	V241092	1	All
15	Bearing Cone	V241099	1	All
	Bearing Cup	V241098	1	All
	Shim .010	V241291	Var	All
16	(One piece with Item 13)			
17	Bear cone	V241096	2	All
	Bearing Cup	V241097	2	All
	Sim .010	V241285	Var	All
18	Housing	V241271	1	All
19	Shaft Assembly	V241084	1	All
20	Ring Gear	V241286	1	All
21	Ring Gear Plate		1	All
22	Bolt	V241294	8	All
	Lock Washer	V063136	8	All
23	Cap	V241093	1	All
	Gasket (.015)	V241085	Var	All
	Gasket (.005)	V241086	Var	All
	Gasket (.003)	V241087	Var	All
	Pipe Plug	V241292	3	All
24	Sems Cap Screw	236550	10	All

AIRBOX, DRIVE V240600

CURTIS





BONDIOLI & PAVESI s.p.a.Via 23 Aprile, 35/a
46029 Suzzara / Mantova (Italia)

telefono: (0376) 5141

telex: 300513 BYPY I - Telefax: (0376) 531382

cod. fisc. e part. I.v.a. 00165850209

**BONDIOLI
& PAVESI** CODICE CLIENTE
CODE CLIENT
CUSTOMER CODE
KUNDEN - NR.

870 0002

RAGIONE SOCIALE
ETS.
MESSERS
FIRMA**ARTS WAY INC.**DISEGNO / CODICE
DISEGNO / CODE
DRAWING / CODE
ZEICHNUNG - NR.

S2201290001

DESCRIZIONE
DESCRIPTION
DESCRIPTION
BESCHREIBUNG**GEARBOX**RIF. CLIENTE
REF. CLIENT
CUSTOMER REF.
BEZUG KUNDE**P/N 389320**RIF. DI MACCHINA
TYPE DE MACHINE
TYPE OF IMPLEMENT
MASCHINENTYPEDATA
DATE
DATE
DATUM

3.05.96

RIF. REF. REF. BEZUG	CODICE CODE CODE BESTELL. NR.	RIF. CLIENTE REF. CLIENT CUSTOMER REF. BEZUG KUNDE	Q.TA' Q.TE Q.TY M.GE	DESCRIZIONE DESCRIPTION DESCRIPTION BESCHREIBUNG	PREZZO PAIX PRICE PREISE	RIF. REF. REF. BEZUG
1	290290800		1	HOUSING		1
2	290290900	430770	1	COVER		2
3	291324014	430790	1	CROWN		3
4	295244010	430790	1	SHAFT		4
5	298408002	430800	1	SPACER		5
6	298600039	430810	1	COVER		6
7	310002200	J19H2284	4	SCREW M4x5 3/8-16 x 7/8		7
8	310003200	011370	10	SCREW, M4x5 3/8-16 x 1-1/2		8
9	335009000	021180	14	WASHER, LOCK 3/8		9
10	337000080	430820	1	SNAP RING		10
11	338000125	430830	2	CIRCLIP		11
12	340110002	430840		RING	BAG, ASSORTED SPACERS FOR 389320	12
13	340110003			RING		13
14	340110005			RING		14
15	340110008			RING		15
16	340110009			RING		16
17	340125000			RING		17
18	340125001			RING		18
19	340125002			RING		19
20	340125003			RING		20
21	340125004			RING		21
22	346012000		1	PIN		22
23	354404070	430850	2	BEARING, TR 302 1/4		23
24	354405065	430860	1	BEARING, TR 320 1/2		24
25	354408055	430870	1	BEARING, BALL 6207 2RS1		25
26	355002085	430880	1	OIL SEAL 85mm x 110mm x 12mm		26
27	355006070	430890	2	OIL SEAL 70mm x 125mm x 12mm		27
28	373066000	430900	2	PLUG		28
29	373067000	430910	1	PLUG		29
30	447290900	430920	1	BEVEL GEAR		30

NON INTERPRETATE IL DISEGNO : SE AVETE DUBBI CHIEDETE

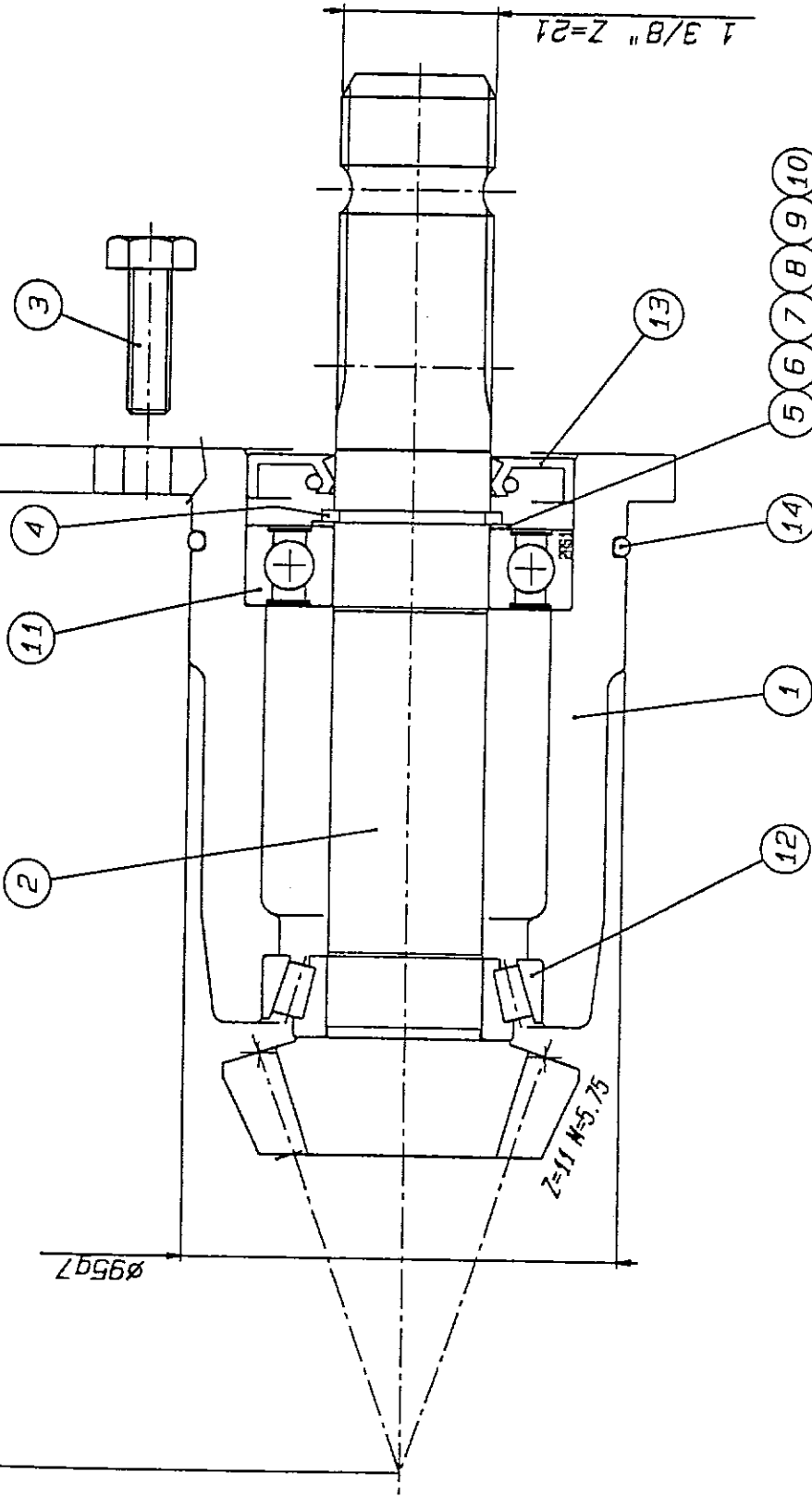
213.5

10.5

Ø95g7

Z=11 M=5.75

1 3/8" Z=21



FOR USE WITH P/N 389320 GEARBOX

389330 KIT, PTO SUBASSY GEARBOX

FOCAL	COORD. PROGETTISTA	COORD. CALCELI	COORD. PROGETTISTA
DISEGNATO	REDAZIONE	REDAZIONE	REDAZIONE
GIORGIO	KIT P.F. COMANDO POMPA 2201	KIT P.F. COMANDO POMPA 2201	KIT P.F. COMANDO POMPA 2201
DATA	RINVIO 52201290001 - ARTS. WAY	RINVIO 52201290001 - ARTS. WAY	RINVIO 52201290001 - ARTS. WAY
07/06/96			

BONDIOLI & PAVESI

COPIE

490220101000

VIETATE LE RIPRODUZIONI NON AUTORIZZATE

REPRODUCTION NOT PERMITTED ALL RIGHT RESERVED

TOUTE REPRODUCTION NON AUTORIZZEE EST INTERDITE

BONDIOLI & PAVESI s.p.a.Via 23 Aprile, 35/a
46029 Suzzara / Mantova (Italia)

telefono: (0376) 5141

telex: 300513 BYFY I - telefax: (0376) 531382
cod. fisc. e part. i.v.a. 00155850209**BONDIOLI
& PAVESI** CODICE CLIENTE
CODE CLIENT
CUSTOMER CODE
KUNDEN - NR.

870 0001

RAGIONE SOCIALE
ETS
MESSERS
FIRMA

BONDIOLI & PAVESI INC.

DISEGNO / CODICE
PLAN / CODE
DRAWING / CODE
ZEICHNUNG - NR.

490220101000

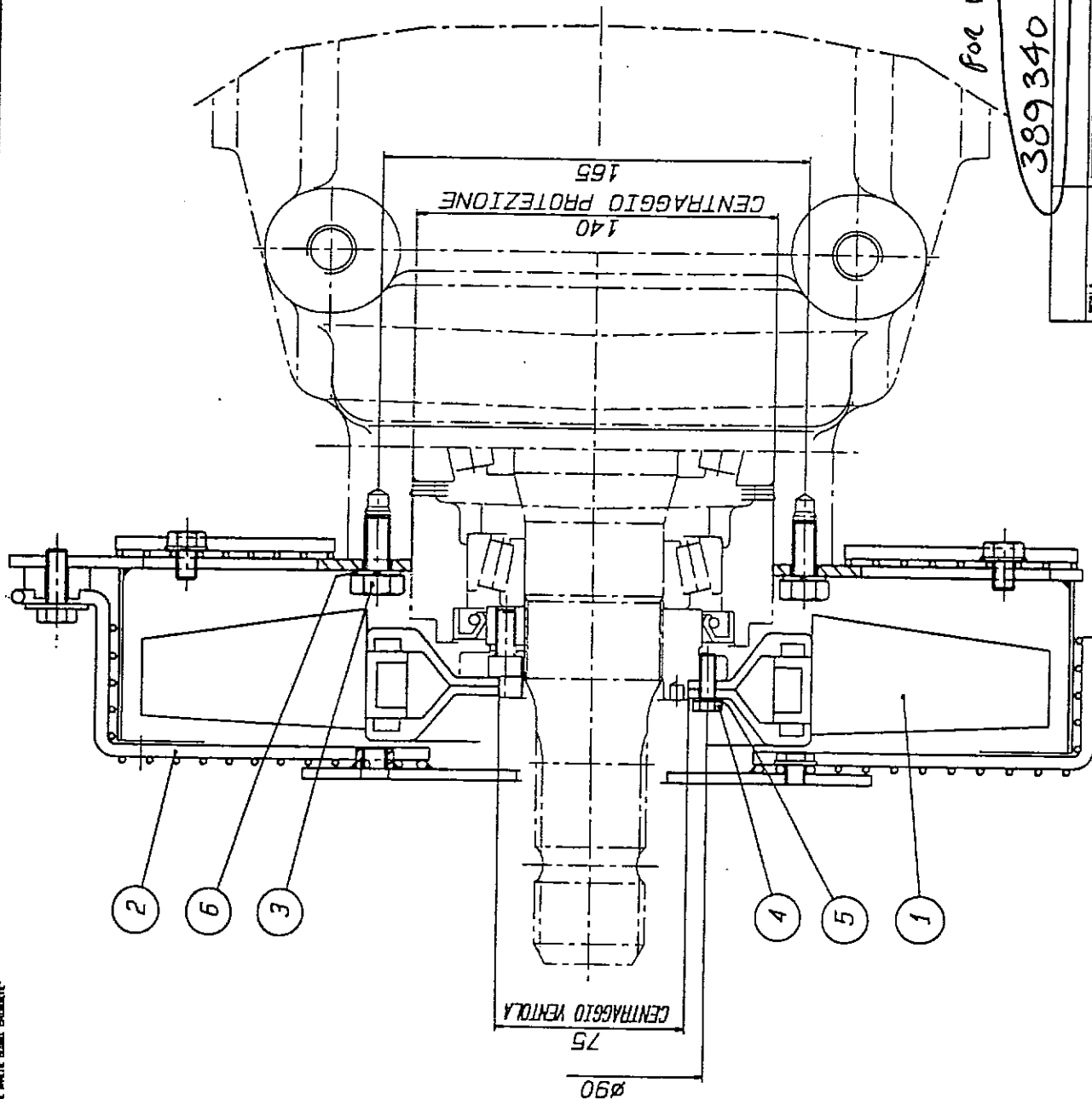
DESCRIZIONE
DESCRIPTION
DESCRIPTION
BESCHREIBUNGRIF. CLIENTE
REF. CLIENT
CUSTOMER REF.
KUNDEN - SACHNR.

PN 389330

TIPO DI MACCHINA
TYPE OF MACHINE
IMPLEMENT TYPE
MASCHINENTYPEDATA
DATE
DATE
DATUM

25.02.97

RIF. REF. REF. BEZUG	CODICE CODE CODE BESTELL - NR.	RIF. CLIENTE REF. CLIENT CUSTOMER REF. KUNDEN - SACHNR.	Q.TA' Q.TE Q.TY M.GE	DESCRIZIONE DESCRIPTION DESCRIPTION BESCHREIBUNG	PREZZO PRIX PRICE PREISE	RIF. REF. REF. BEZUG
001	290291000		1	SUPPORT		001
002	292113700		1	PINION		002
003	310001101		4	SCREW		003
004	337001035		1	SNAP RING		004
005	340035000			RING		005
006	340035001			RING		006
007	340035002			RING		007
008	340035003			RING		008
009	340035004			RING		009
010	340035005			RING		010
011	354109035		1	BEARING		011
012	354404035		1	TAPERED R.BEARING		012
013	355007035		1	OIL SEAL		013
014	358064000		1	OIL SEAL		014



for use with P/N 389320 Gearbox
389340 KIT, FAN GearBox Cooling

MODEL	DESCRIPTION	DATE
GIORGIO	KIT VENTOLA DI RAFFREDDAMENTO	10/06/96
DATA	+ PROTEZIONE PER S2201290001	ARTIS MAY

CONTRATTO
& PAVESI

490220101001

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telefax: 300513 8VPI I - telefax: (0376) 531392

cod. fisc. e part. i.v.a. 00155850209

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CUSTOMER CODE
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490220101001

DESCRIZIONE
DESCRIPTION
DESCRIPTION
BESCHREIBUNGRIF. CLIENTE
REF. CLIENT
CUSTOMER REF.
KUNDEN - SACHNR.

P/N 389340

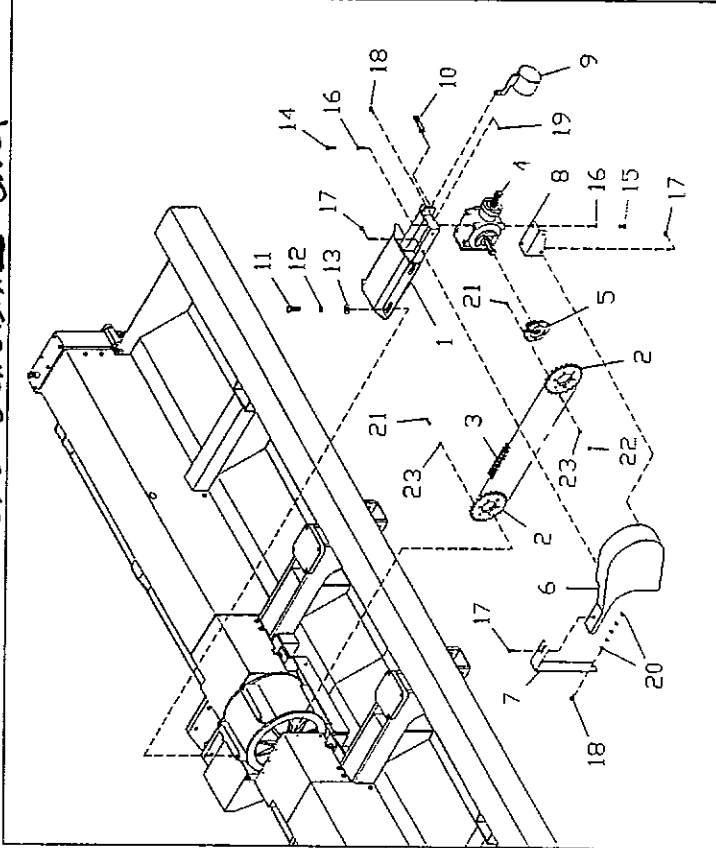
TIPO DI MACCHINA
TYPE OF MACHINE
IMPLEMENT TYPE
MASCHINENTYPEDATA
DATE
DATE
DATUM

25.02.97

RIF. REF. REF. BEZUG	CODICE CODE CODE BESTELL - NR.	RIF. CLIENTE REF. CLIENT CUSTOMER REF. KUNDEN - SACHNR.	Q.TA* Q.TE Q.TY M.GE	DESCRIZIONE DESCRIPTION DESCRIPTION BESCHREIBUNG	PREZZO PRIX PRICE PREISE	RIF. REF. REF. BEZUG
001	SP0615		1	FAN		001
002	SP0616		1	SAFETY SHIELD		002
003	310002200		4	SCREW		003
004	310004200		5	SCREW		004
005	335006002		5	WASHER		005
006	335010001		4	WASHER		006

AUXILIARY GEARBOX OPTION-372100

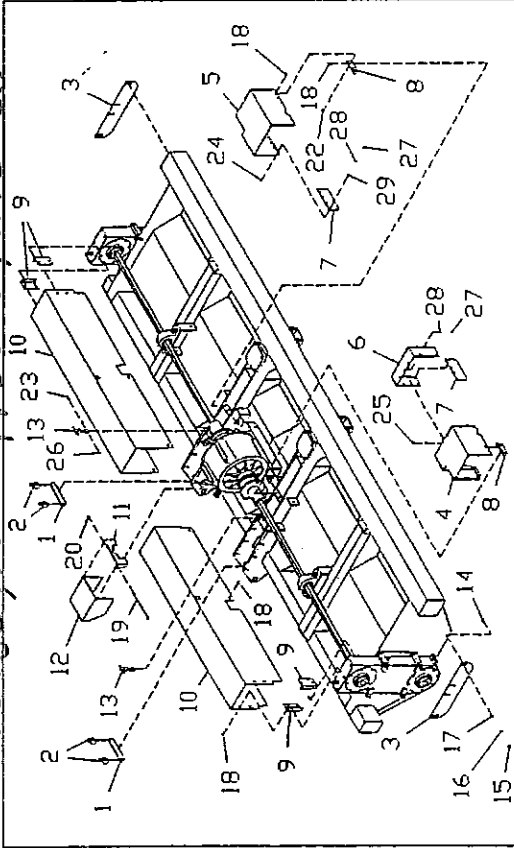
CURTIS GEARBOX ONLY



1	372080	MOUNT VLDI, AUX. GEARBOX
2	372160	SPROCKET, 80A22, 3/2.91 P.
3	372180	CHAIN, RC80-48 PITCH
4	369640	GEARBOX, 1:3 RATIO
5	R22690	INPUT DRIVE, 5 DDx1.38-6P
6	379670	SHIELD VLDI, DRIVE
7	379710	SHIELD, FRONT
8	379720	MOUNT, SHIELD
9	379900	SHIELD VLDI, P10
10	140820	PIN, SAFETY .12x4-3/8
11	1769804	BOLT, HHCS, 3/4-10x1-3/4
12	036800	WASHER, LOCK, 3/4
13	1131017	WASHER, FLAT, .812x1.46x.108
14	010730	BOLT, HHCS, 1/2-13x1-1/4
15	E672030	BOLT, HHCS, 1/2-13x1.3/4
16	005360	WASHER, LOCK, 1/2
17	JN14822	BOLT, 3/8-16x3/4 HEX FLG
18	JN10214	BOLT, 3/8-16x1 HEX FLG
19	023060	NUT, HEX LOCK, 3/8-16
20	021190	WASHER, FLAT, .438x1.00x.083
21	030030	BOLT, HHCS, 5/16-18x1-1/4
22	023630	NUT, HEX, 5/16-18
23	023620	WASHER, LOCK, 5/16
24	963130	90V GEAR OIL SAE (GAL.)

SHIELDS

PS180, PS216, PS240, & PS288



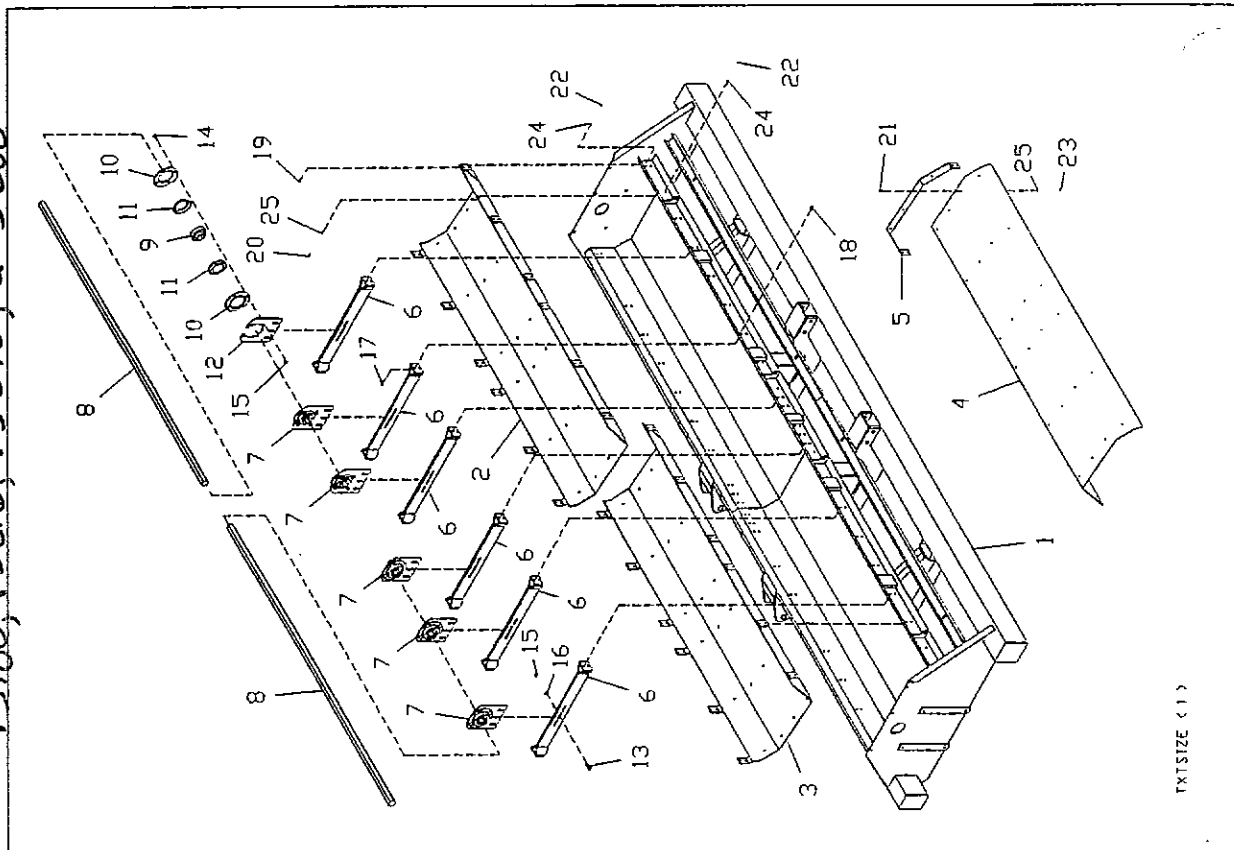
1	2	V240512	PIN, HITCH CAT12-3
2	4	E580104	PLATE, WEAR HARD SURFACE
3	2	V240328B	SHIELD VLDT, SHEAR PL. LH
4	1	378700	SHIELD VLDT, SHEAR PL. RH
5	1	378740	EXTENSION, SHIELD
6	1	378760	DEFLECTOR, RUBBER
7	2	378770	HINGE, SHIELD
8	2	378780	MOUNT VLDT, SHIELD
9	4	378800	SHIELD, DRIVE PS180 (SHOWN)
10	2	378820	SHIELD, DRIVE PS216
		378830	SHIELD, DRIVE PS240
		378840	SHIELD, DRIVE PS288
11	1	379290	PLATE, MOUNT SHIELD
12	1	379300	SHIELD VLDT, FRONT
13	2	E504003	LATCH, RUBBER HUNTINGTON
14	-	030470	BOLT, CRG 1/2-13x1 1/4 SSN
15	-	005360	NUT, HEX, 1/2-13
16	-	005370	WASHER, LOCK 1/2
17	-	005200	WASHER, FLAT, 5/8x1.375x109
18	-	JN14822	SCREW, 3/8-16x3/4 HX FLG
19	-	E672347	BOLT, HHCS, 3/8-16x11
20	-	023060	NUT, HX LCK, 3/8-16
21	-	1102635	NUT, HEX, 3/8-16
22	-	020180	NUT, HEX FLG, 3/8-16
23	-	047000	BOLT, HHCS, 1/4-20x1 1/2
24	-	E096029	BOLT, CGS, 1/4-20x3/4
25	-	029450	BOLT, HHCS, 1/4-20x1/2
26	-	037550	NUT, HEX LK, 1/4-20
27	-	027660	NUT, HEX, 1/4-20
28	-	029440	WASHER, LOCK 1/4
29	-	023260	WASHER, FLAT, 3/16x.75x16 GA.

TWT SIZE (1)

M379160S
SCALE 1:40

LOWER AXLE ASSY

PS180, PS216, PS240, & PS288

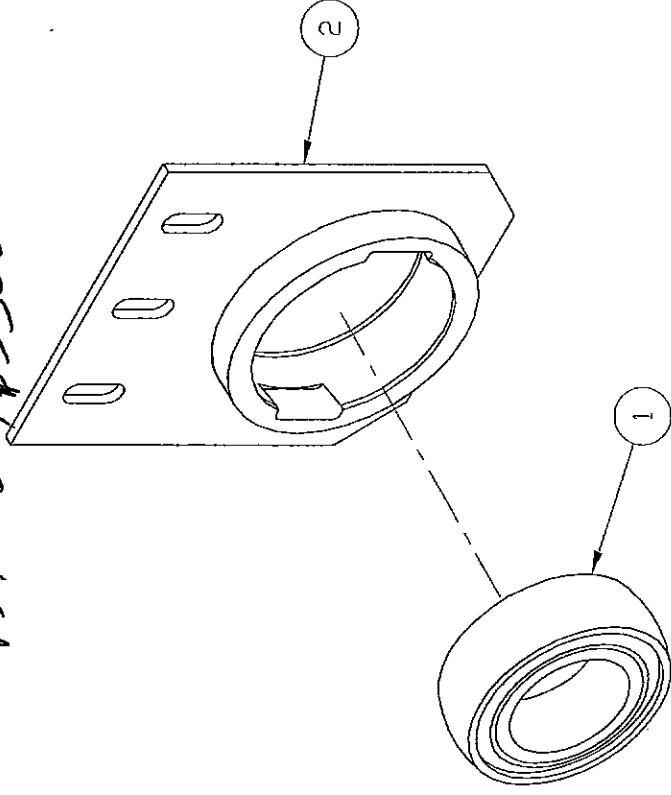


TEXT SIZE (1)

M379160L
SCALE 1:32

1	374520	FRAME WLDT, MAIN PS180 (SHOWN)
2	374530	FRAME WLDT, MAIN PS216
3	374540	FRAME WLDT, MAIN PS240
4	374550	FRAME WLDT, MAIN PS288
5	378890	LINER ASSY, LH PS180 (SHOWN)
6	378900	LINER ASSY, LH PS216
7	378910	LINER ASSY, LH PS240
8	378920	LINER ASSY, LH PS288
9	378930	LINER ASSY, RH PS180 (SHOWN)
10	378940	LINER ASSY, RH PS216
11	378950	LINER ASSY, RH PS240
12	378960	LINER ASSY, RH PS288
13	378860	LINER, RUBBER, PS180 (SHOWN)
14	378870	LINER, RUBBER, PS216
15	378880	LINER, RUBBER, PS240
16	378890	LINER, RUBBER, PS288
17	378860	STRAP, LINER
18	378870	CARRIER WLDT, TILLER
19	378880	BEARING ASSY, CARRIER
20	378890	BAR, HEX LOWER AXLE PS180 (SHOWN)
21	378900	BAR, HEX LOWER AXLE PS216
22	378910	BAR, HEX LOWER AXLE PS240
23	378920	BAR, HEX LOWER AXLE PS288
24	378930	BEARING, CARRIER 1-3/4" V/SEAL
25	378940	FLANGE, MOUNTING BEARING 4-HOLE
26	378950	SHIELD, ANTI-VRAP
27	378960	BAR, CARRIER MTG
28	378970	BOLT, CRG. 1/2-13x1 3/4
29	378980	BOLT, CRG. 1/2-13x1 1/4
30	378990	NUT, LOCK, 1/2-13
31	379000	WASHER, FLAT, 5/8x1 3/4
32	379010	NUT, LOCK, 7/16-14x1 1/4
33	379020	NUT, LOCK, 7/16-14x1 1/4
34	379030	BOLT, HHCS, 1/4-20x1
35	379040	BOLT, HHCS, 1/4-20x3/4
36	379050	BOLT, CRG. 1/4-20x3/4
37	379060	NUT, HEX, 1/4-20
38	379070	NUT, LOCK, 1/4-20
39	379080	WASHER, LOCK, 1/4
40	379090	WASHER, FLAT, 3/8x7/8x1/16 GA.

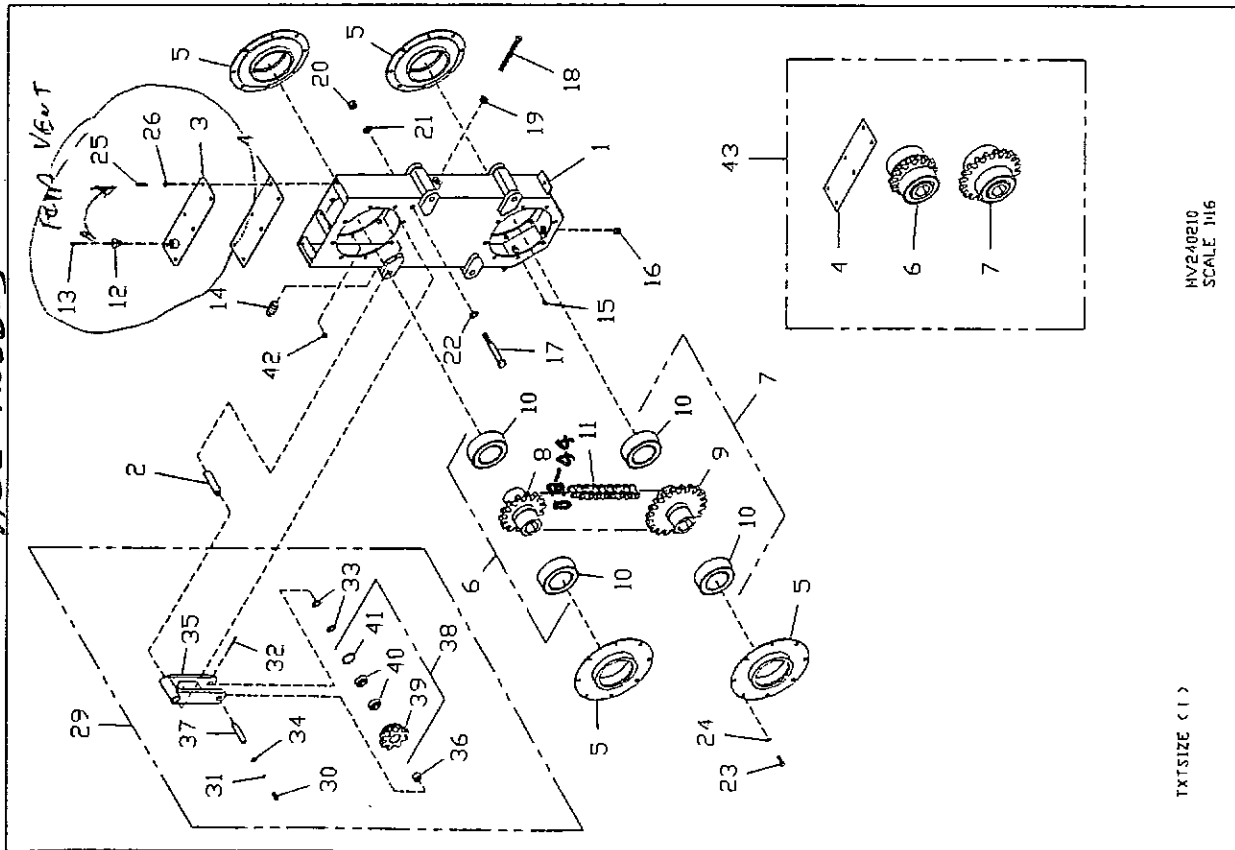
PS10-30/PS300



2	1	410690	CARRIER W/LDT, BRG COUPLER
1	1	408440	BRG., 125mm SODx70mm BORE

CHAIN CASE ASSEMBLY-V240210

ALL MODELS



TX SIZE C 1

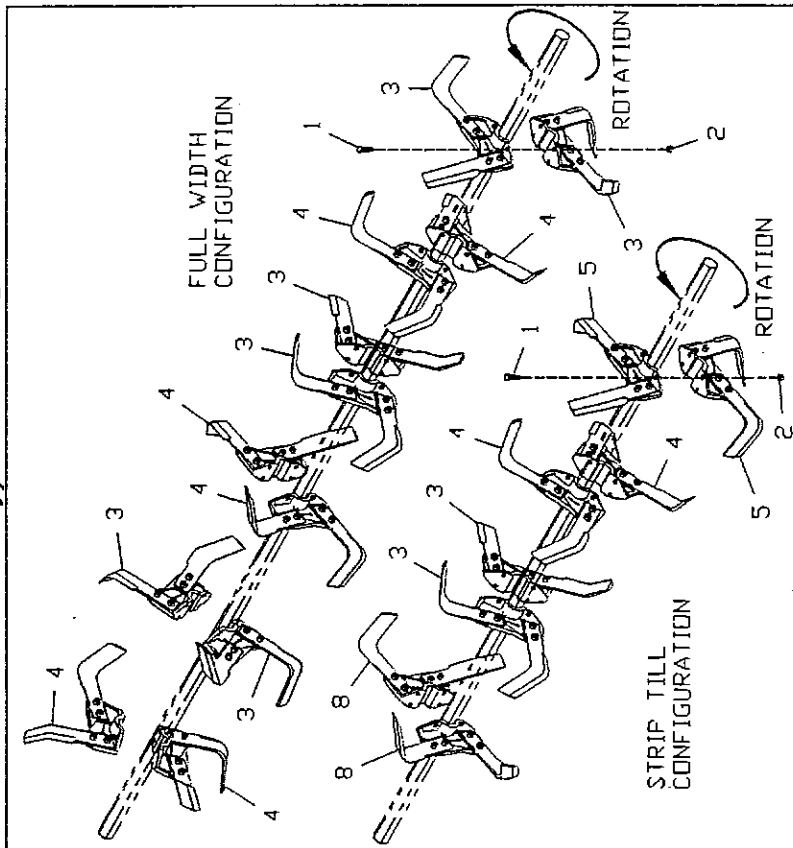
HV240210
SCALE 1/16

1	1	V242780	CHAIN CASE BENCH SUB-ASSY
2	1	V240257	BUSHING, IDLER PIVOT 7/8x3/4x68
3	1	V240235	PLATE, INSPECTION WELDMENT
4	1	V240239	GASKET, .094x4-1/8x12-1/8
5	4	V240221	COVER, CHAINCASE MACHINED
6	1	V240211	HUB & SPROCKET ASSY, 15-TOOTH (NORMAL ASSY, 270 RPM)
7	1	V240511	HUB & SPROCKET ASSY, 14-TOOTH (SLOW-DOWN KIT ASSY, 240 RPM)
8	1	V240512	HUB & SPROCKET ASSY, 16-TOOTH (SPEED-UP KIT ASSY, 304 RPM)
9	1	V240212	HUB & SPROCKET ASSY, 19-TOOTH (NORMAL ASSY, 270 RPM)
10	1	V240515	HUB & SPROCKET ASSY, 20-TOOTH (SLOW-DOWN KIT ASSY, 240 RPM)
11	1	V240514	HUB & SPROCKET ASSY, 18-TOOTH (SPEED-UP KIT ASSY, 304 RPM)
12	1	V240215	SPROCKET, 15-TOOTH (NORMAL, 270 RPM)
13	1	V240914	SPROCKET, 14-TOOTH (SLOW-DOWN KIT, 240 RPM)
14	1	V240215	SPROCKET, 16-TOOTH (SPEED-UP KIT, 304 RPM)
15	1	V240215	SPROCKET, 19-TOOTH (NORMAL, 270 RPM)
16	1	V240820	SPROCKET, 20-TOOTH (SLOW-DOWN KIT, 240 RPM)
17	1	V240219	SPROCKET, 19-TOOTH (SPEED-UP KIT, 304 RPM)
18	4	V240214	BEARING, CHAIN CASE
19	1	V240673	CHAIN, ROLLER HRS100HT RIVETED
20	1	V620030	BUSHING, PIPE 1/2 TO 1/8 BLACK
21	1	V628205	PLUG, PIPE 1/8 BLACK
22	1	V628230	PLUG, PIPE 1/4 HEX SOCKET PIPE
23	1	V628410	PLUG, PIPE 1/2 HEX SCKT MAGNETIC
24	1	V628520	BOLT, HHCS, 5/8-11x4-5/8
25	1	V057339	SCREW, SHSS, 5/8-11x5
26	1	V067709	NUT, JAN, 5/8-11
27	1	V062140	NUT, LOCK, 5/8-11 2-WAY
28	1	V240267	WASHER, THREADSEAL, 5/8 #7500
29	1	V240268	WASHER, STAT-O-SEAL 5/8
30	1	012260	BOLT, HHCS, 3/8-16x1
31	1	V063286	WASHER, LOCK, 3/8 EXT
32	1	005900	BOLT, HHCS, 5/16-18x1
33	1	V240410	WASHER, THREADSEAL, 5/16 #7500
34	1	V240582	SILASTIC SEALANT 11 OZ./TUBE
35	1	953130	GEARDIL 90V
36	1	V240250	IDLER ASSY, CHAIN CASE
37	1	012140	BOLT, HHCS, 5/16-18x3/4
38	1	V063235	WASHER, LOCK, 5/16 INT.
39	1	1030800	PIN, ROLL 3/16x2
40	1	035190	BUSHING, 5/8x1-1/8
41	1	V067507	WASHER, FLAT, 5/16 HARDENED BLK
42	1	V240256	ARM, IDLER MACHINED
43	1	V240264	SPACER, SPROCKET
44	1	V240265	PIN, IDLER 5/8x2-31/32
45	1	V240261	IDLER SPROCKET ASSY, 8-TOOTH
46	1	V240260	IDLER SPROCKET, MACHINED
47	1	V240262	BEARING, IDLER
48	1	V240263	RING, RETAINING
49	1	V066553	FASTENER, SELF-CLINCHING
50	1	372330	KIT, SPEED-UP SPROCKET & BEARING 304 RPM
51	1	372340	KIT, SLOW-DOWN SPROCKET & BEARING 240 RPM
52	1	V240763	LINK, CONNECTING #700HT

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ROTOR ASSEMBLIES

Acc models



1	-	014770	BOLT, HHCS, 1/2-13x1-1/2
2	-	V066518	NUT, LOCK, 1/2-13 NC CO PL
3	×	358110	ROTOR SUBASSY, POINT STD, LH
		358130	ROTOR SUBASSY, POINT V.C, LH
		358150	ROTOR SUBASSY, POINT TC, LH
4	×	358120	ROTOR SUBASSY, FLAT STD, RH
		358140	ROTOR SUBASSY, FLAT V.C, RH
		358160	ROTOR SUBASSY, FLAT TC, RH
5	×	358170	ROTOR SUBASSY, POINT, LH BAR, STD
		358190	ROTOR SUBASSY, POINT, LH BAR, V.C
		358210	ROTOR SUBASSY, POINT, LH BAR, TC
6	×	358180	ROTOR SUBASSY, FLAT, LH BAR, STD
		358200	ROTOR SUBASSY, FLAT, LH BAR, V.C
		358220	ROTOR SUBASSY, FLAT, LH BAR, TC
7	×	358230	ROTOR SUBASSY, POINT, RH BAR, STD
		358250	ROTOR SUBASSY, POINT, RH BAR, V.C
		358270	ROTOR SUBASSY, POINT, RH BAR, TC
8	×	358240	ROTOR SUBASSY, FLAT, RH BAR, STD
		358260	ROTOR SUBASSY, FLAT, RH BAR, V.C
		358280	ROTOR SUBASSY, FLAT, RH BAR, TC

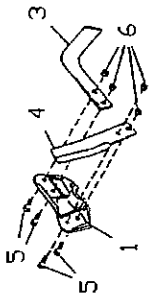
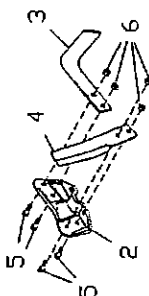
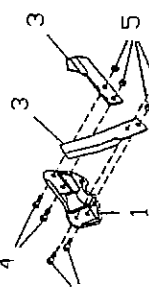
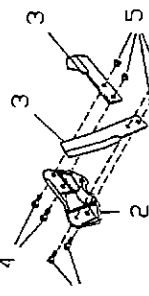
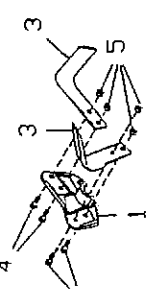
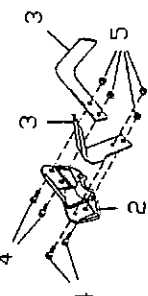
TEXT SIZE (1)

MRROTORS
SCALE 1:16

NO BASE DRAWING

ROTOR SUB-ASSEMBLIES

ALL MODELS

			
358110	ROTOR SUBASSY, POINT CONV, STD	358120	ROTOR SUBASSY, FLAT CONV, STD
358130	ROTOR SUBASSY, POINT CONV, VC	358140	ROTOR SUBASSY, FLAT CONV, VC
358150	ROTOR SUBASSY, POINT CONV, TC	358160	ROTOR SUBASSY, FLAT CONV, TC
1	V240065 CASTING, V/POINT-TOP HUB		
2	V240066 CASTING, V/FLAT-TOP HUB		
3	V240411 BLADE, TILLAGE STD, L.H.		
	V240067 BLADE, TILLAGE VC, L.H.		
	V241147 BLADE, TILLAGE TC, L.H.		
4	V240412 BLADE, TILLAGE STD, R.H.		
	V240068 BLADE, TILLAGE VC, R.H.		
	V241148 BLADE, TILLAGE TC, R.H.		
5	010730 BOLT, HHCS, 1/2-13x1-1/4		
6	V066518 NUT, LOCK, 1/2-13 NC CD PL		
			
358170	ROTOR SUBASSY, POINT LH BAR, STD	358180	ROTOR SUBASSY, FLAT LH BAR, STD
358190	ROTOR SUBASSY, POINT LH BAR, VC	358200	ROTOR SUBASSY, FLAT LH BAR, VC
358210	ROTOR SUBASSY, POINT LH BAR, TC	358220	ROTOR SUBASSY, FLAT LH BAR, TC
1	V240065 CASTING, V/POINT-TOP HUB		
2	V240066 CASTING, V/FLAT-TOP HUB		
3	V240412 BLADE, TILLAGE STD, R.H.		
	V240068 BLADE, TILLAGE VC, R.H.		
	V241148 BLADE, TILLAGE TC, R.H.		
4	010730 BOLT, HHCS, 1/2-13x1-1/4		
5	V066518 NUT, LOCK, 1/2-13 NC CD PL		
			
358230	ROTOR SUBASSY, POINT RH BAR, STD	358240	ROTOR SUBASSY, FLAT RH BAR, STD
358250	ROTOR SUBASSY, POINT RH BAR, VC	358260	ROTOR SUBASSY, FLAT RH BAR, VC
358270	ROTOR SUBASSY, POINT RH BAR, TC	358280	ROTOR SUBASSY, FLAT RH BAR, TC
1	V240065 CASTING, V/POINT-TOP HUB		
2	V240066 CASTING, V/FLAT-TOP HUB		
3	V240411 BLADE, TILLAGE STD, L.H.		
	V240067 BLADE, TILLAGE VC, L.H.		
	V241147 BLADE, TILLAGE TC, L.H.		
4	010730 BOLT, HHCS, 1/2-13x1-1/4		
5	V066518 NUT, LOCK, 1/2-13 NC CD PL		

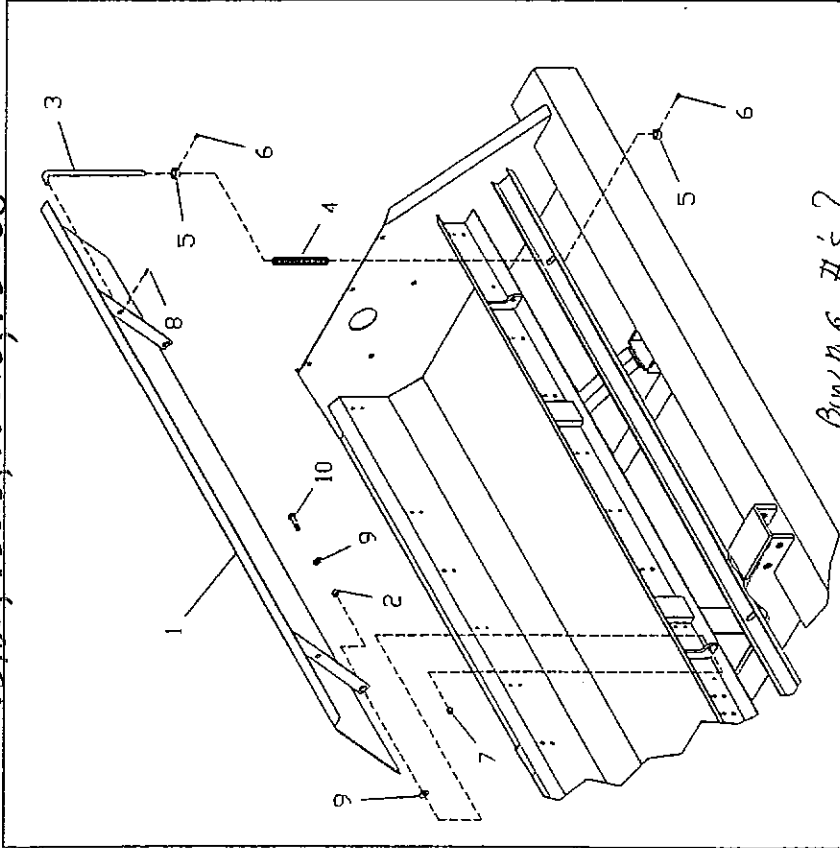
XTSIZE (1)

M385290
SCALE 1:16

385290 - 385340

TAILGATE ASSEMBLY

PS186, PS216, PS240, PS288



1	2	V241192	TAILGATE VLDT, PS180 (SHOWN)
3	3	379020	TAILGATE VLDT, PS216
4	4	V241167	TAILGATE VLDT, PS240
5	5	V2411248	TAILGATE VLDT, PS288
6	6	V240056	BUSHING, TAILGATE 7/16" SINTER
7	7	V240081	BAR, TAILGATE SPRING
8	8	V240082	SPRING, COMP 1"x8"-135 32 COIL
9	9	V240083	COLLAR, SPRING ROD
10	10	V060219	SCREW, SHSS 5/16x3/4 C-PT PL
11	11	V066519	NDT, LOCK 1/2-13 NC CAD PL
		003450	PIN, COTTER 3/16x1-1/4
		005200	WASHER, FLAT, .562x1.375x.109
		1770500	BOLT, HHCS, 1/2-13x1-3/4

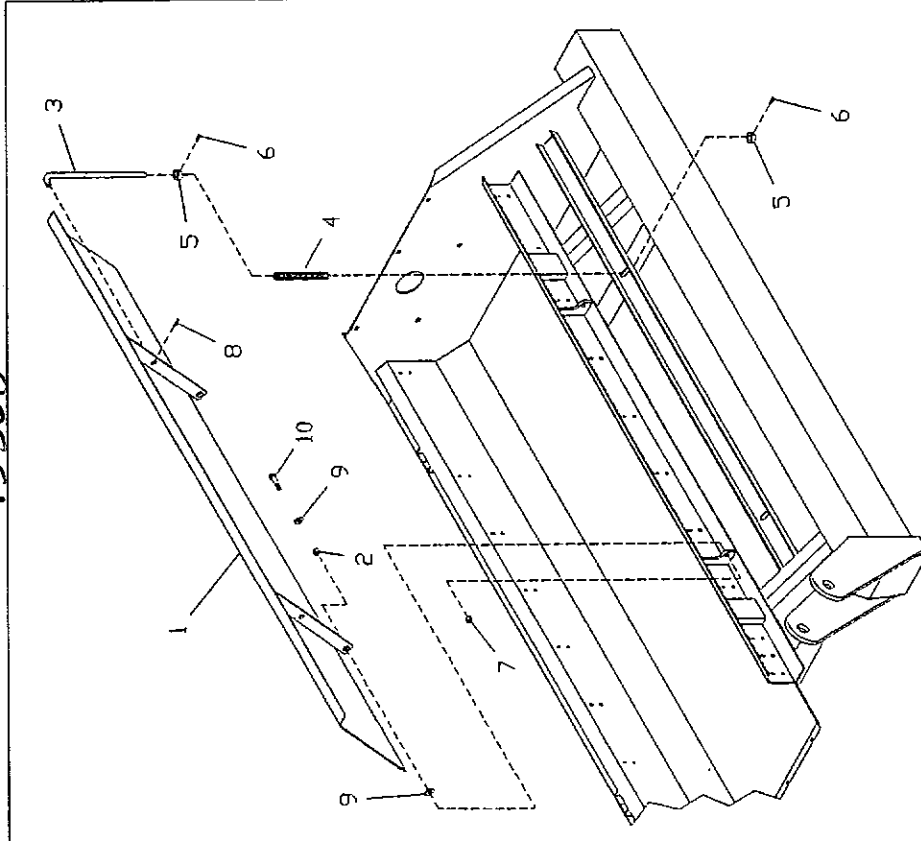
TXTSIZE (1)

M379040
SCALE 1:16

NO BASE DRAWING

TAILGATE ASSEMBLY

PS 360



1	2	383750	TAILGATE VLDT, CENTER PS360 (ASHOWN)
2	2	383760	TAILGATE VLDT, WING PS360 (SHOWN)
3	2	V240056	BUSHING, TAILGATE 7/16" SINTER
4	2	V240081	BAR, TAILGATE SPRING
5	2	V240082	SPRING, COMP 1"x8" .135 32 COIL
6	2	V240083	COLLAR, SPRING ROD
7	2	V060219	SCREW, SHSS 5/16x3/4 C-PT PL
8	2	V066518	NUT, LOCK 1/2-13 NC CAD PL
9	2	003450	PIN, COTTER 3/16x1-1/4
10	2	005200	WASHER, FLAT, .562x1.375x.109
11	2	1770500	BOLT, HHCS, 1/2-13x1-3/4

1X SIZE (1)

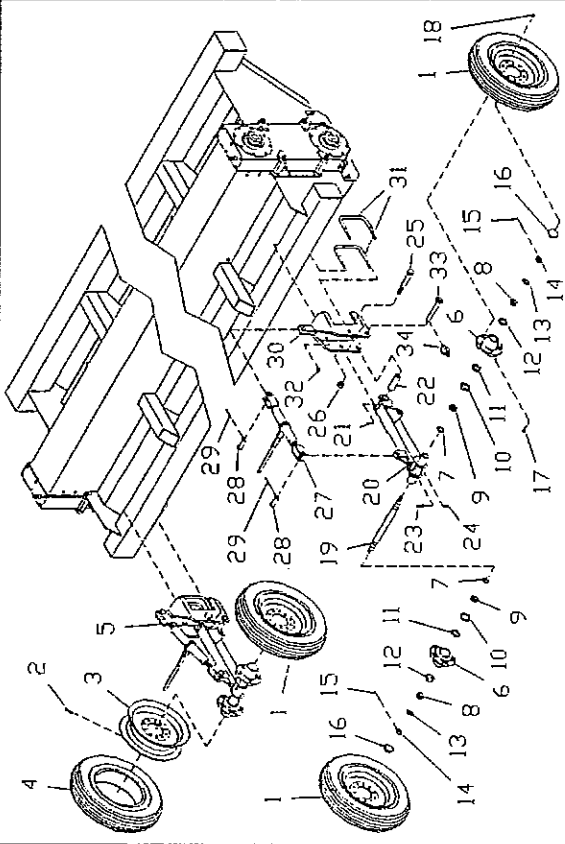
M383810

SCALE 1:16

NO BASE DRAWING

DUAL GAUGE WHEEL OPTION-373840

ALL MODELS PS360 (uses 2) sets



1	4	V240113	WHEEL & TIRE ASSY
2	4	V590200	VALVE STEM, NTR 415
3	4	V590400	WHEEL, 15 (5-BOLT)
4	4	V590673	TIRE, TUBELESS 7.06x15 8-PLY
5	2	375420	STRUT ASSY, GAUGE WHEEL DUAL
6	4	V031090	HUB SUB-ASSY, 5-BOLT
7	4	V023490	SEAL, TRIPLE LIP
8	4	012630	CONE, BRG LM67048
9	4	044370	CONE, BRG LM48548
10	4	V023510	SLEEVE, WEAR
11	4	019950	CUP, BRG TMKN NLM48510
12	4	019860	CUP, BRG TMKN NLM67010
13	4	V030620	WASHER, FLAT 7/8 HARD SPINDLE
14	4	129930	NUT, HEX, 7/8-14 SLOTTED
15	4	026630	FIN, CUTTER 3/32x1-1/2
16	4	035420	CAP, HUB 0612016
17	20	V031020	ROLT, WHEEL, 1/2-20x1-5/8
18	20	020730	NUT, WHEEL 1/2
19	2	V240276	SPINDLE, DOUBLE 1-1/2x19-1/2
20	2	V240271	ARM VLDT, GAUGE WHEEL MACHINED
21	2	013170	FITTING, GREASE
22	2	V240312	BUSHING, ARM PIVOT
23	2	037630	ROLT, HHCS, 3/8-16x2-1/2
24	2	023050	NUT, LOCK, 3/8-16
25	2	R60962	ROLT, HHCS, 1-8x7-1/2 ZN
26	2	V064543	NUT, LOCK, 1 ELASTIC STOP NC PL
27	2	V126600	KIT, RATCHET JACK BSA
28	4	V240477	PIN, CLEVIS 1/2-5/8
29	4	124340	PIN, COTTER 3/16x1-1/2
30	2	375020	MOUNT VLDT, GAUGE WHEEL STRUT
31	4	375070	ROLT, U, 3/4-10x6.75x7.06
32	8	V064541	NUT, LOCK, 3/4 ELASTIC STOP PL
33	2	384350	PIN VLDT, STRUT LOCK
34	2	R66461	PIN, KLIK 1/4x1-3/4x1-3/8

TEXT SIZE (1)

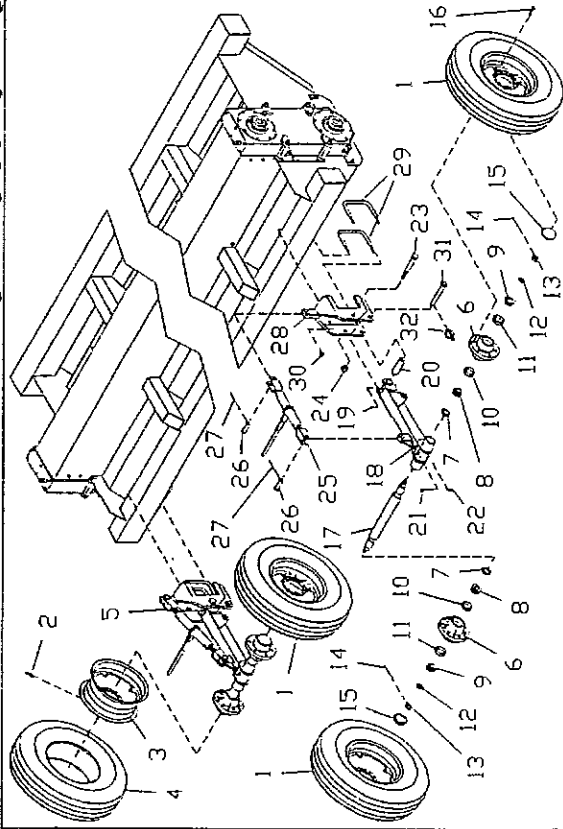
375420

H373840
SCALE 1:32

NO BASE DRAWING

HEAVY DUTY DUAL GAUGE WHEEL OPTION-373850

ALL MODELS PS 360 (USAS (2) SETS)



1	4	V630037	WHEEL & TIRE ASSY, 15 x 8
2	4	V590200	VALVE STEM RTR 415
3	4	V590410	WHEEL, 15 x BLB 6-BOLT
4	4	V590780	TIRE, TUBELESS 9.5L x 15 8-PLY
5	2	375430	STRUT ASSY, GAUGE WHEEL DUAL HEAVY DUTY
6	4	V040820	HUB SUB-ASSY, 6-BOLT, 0817
7	4	V040832	SEAL, 2.250 ID x 3.255 OD x .438
8	4	129790	CONE, BRG THKN #25590
9	4	129800	CONE, BRG THKN #25877
10	4	129770	CUP, BRG THKN #25520
11	4	129780	CUP, BRG THKN #25821
12	4	V030620	WASHER, FLAT 7/8 HARD SPINDLE
13	4	129830	NUT, HEX, 7/8-14 SLOTTED
14	4	026630	PIN, COTTER 5/32x1-1/2
15	4	V66260	CAP. HUB 3153
16	24	V007002	BOLT, WHEEL, 9/16x1-1/8
17	2	V040846	SPINDLE, DOUBLE 2-1/4 x 25"
18	2	V241264	ARM WLDT, HEAVY DUTY GAUGE WHEEL MACHINED
19	2	013170	FITTING, GREASE
20	2	V240312	BUSHING, ARM PIVOT
21	2	1189304	BOLT, HHCS, 3/8-16x3-1/4
22	2	023060	NUT, LOCK, 3/8-16
23	2	R60962	BOLT, HHCS, 1-8x7-1/2 ZN
24	2	V064543	NUT, LOCK, 1 ELASTIC STOP NC PL
25	2	V172600	KIT, RATCHET JACK RSA
26	4	V240477	PIN, CLEVIS 1x2-5/8
27	4	124340	PIN, COTTER 3/16x1-1/2
28	2	375020	MOUNT WLDT, GAUGE WHEEL STRUT
29	4	375070	BOLT, U, 3/4-10x6.75x7.06
30	8	V064541	NUT, LOCK, 3/4 ELASTIC STOP PL
31	2	384350	PIN WLDT, STRUT LOCK
32	2	R66461	PIN, KLIK 1/4x1-3/4x1-3/8
33			
34			

1X1 SIZE (1)

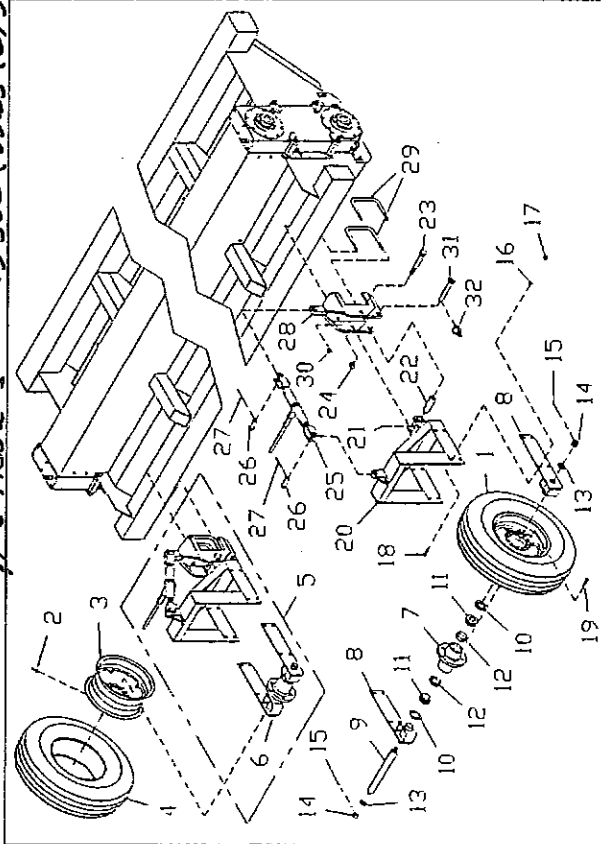
M373850
SCALE 1:32

375430

NO BASE DRAWING

SINGLE GAUGE WHEEL OPTION-373860

ALL MODELS PS860 (USES (2) SETS)



1	4	V630037	WHEEL & TIRE ASSY, 15 x 8
2	4	V590200	VALVE STEM, WTR #15
3	4	V590410	WHEEL, 15 x BLB 6-BOLT
4	4	V590780	TIRE, TUBELESS 9.5L x 15 8-PLY
5	2	375440	STRUT ASSY, GAUGE WHEEL SINGLE
6	2	360930	HUB & SPINDLE ASSY, GAUGE WHEELS
7	2	278030	HUB SUB-ASSY, 6-BOLT 1/2" CUPS
8	4	360940	SUPPORT, SPINDLE
9	2	V450806	SPINDLE, 1-1/2 x 16-3/8
10	4	341100	SEAL, CRE0078
11	4	113330D8	CDNE, #2789
12	4	113324D	CUP, BEARING
13	4	V030620	WASHER, FLAT 7/8 HARD SPINDLE
14	4	129830	NUT, HEX, 7/8-14 SLOTTED
15	4	026630	PIN, COTTER 5/32x1-1/2
16	16	020440	WASHER, LOCK, 5/8 REG
17	16	020450	NUT, HEX, 5/8-11
18	16	025100	BOLT, HHCS, 5/8-11x1-3/4
19	12	042440	BOLT, LUG, 9/16-18x1-1/8
20	2	V241997	YDKE, GAUGE WHEEL
21	2	013170	FITTING, GREASE
22	2	V240312	BUSHING, ARM PIVOT
23	2	R60962	ROTI, HHCS, 1-8x7-1/2 ZN
24	2	V064543	NUT, LOCK, J. ELASTIC STOP NC PL
25	2	V172600	KIT, RATCHET JACK RSA
26	4	V240477	PIN, CLEVIS 1x2-5/8
27	4	124340	PIN, COTTER 3/16x1-1/2
28	2	375020	MOUNT VLDI, GAUGE WHEEL STRUT
29	4	375070	ROTI, U, 3/4-10x6.75x7.06
30	8	V064541	NUT, LOCK, 3/4 ELASTIC STOP PL
31	2	384330	PIN VLDI, STRUT LOCK
32	2	R65461	PIN, KLIK 1/4x1-3/4x1-3/8

1/16" (1)

?

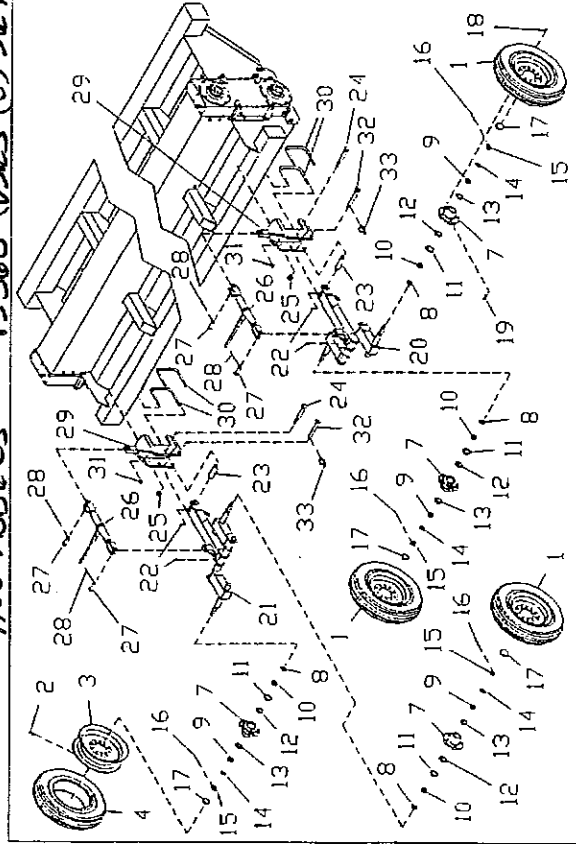
M373860
SCALE 1:32

NO BASE DRAWING

375 940
375 300

WALKING TANDEM GAUGE WHEEL OPTION-373870

ALL MODELS PS360 (USES (2) SETS)



1	4	V240413	WHEEL & TIRE ASSY
2	4	V590200	VALVE STEM, #TR 415
3	4	V590400	WHEEL, 15 CS-BOLT
4	1	V590673	TIRE, TUBELESS 706x15 8-PLY
5	1	375450	STRUT ASSY, GAUGE WHEEL WALKING TANDEM LH
6	1	375460	STRUT ASSY, GAUGE WHEEL WALKING TANDEM RH
7	4	V031090	HUB SUB-ASSY, 5-BOLT
8	4	V023490	SEAL, TRIPLE LIP
9	4	012630	CONE, BRG LM67048
10	4	044370	CONE, BRG LM8548
11	4	V023510	SLEEVE, WEAR
12	4	018850	CUP, BRG THKN #LM48510
13	4	018860	CUP, BRG THKN #LM67010
14	4	V030620	WASHER, FLAT 7/8 HARD SPINDLE
15	4	129830	NUT, HEX, 7/8-14 SLOTTED
16	4	026630	PIN, COTTER 5/32x1-1/2
17	4	035420	CAP, HUB 0612016
18	20	V031020	BOLT, WHEEL 1/2-20x1-5/8
19	20	020730	NUT, WHEEL 1/2
20	1	V240973	WHEEL VLDI, LH GAUGE WALKING BEAM
21	1	V240974	WHEEL VLDI, RH GAUGE WALKING BEAM
22	4	013170	FITTING, GREASE
23	2	V240312	BUSHING, ARM PIVOT
24	2	R60962	BOLT, HHCS, 1-8x7-1/2 ZN
25	2	V064543	NUT, LOCK, 1 ELASTIC STOP NC PL
26	2	V172600	KIT, RATCHET JACK BSA
27	4	V240477	PIN, CLEVIS 1x2-5/8
28	4	124340	PIN, COTTER 3/16x1-1/2
29	2	375020	MOUNT VLDI, GAUGE WHEEL STRUT
30	4	375070	BOLT, U, 3/4-10x6.75x7.06
31	8	V064541	NUT, LOCK, 3/4 ELASTIC STOP PL
32	2	381350	PIN VLDI, STRUT LOCK
33	2	R56461	PIN, KLIK 1/4x1-3/4x1-3/8
34			

TEXT SIZE 6/11

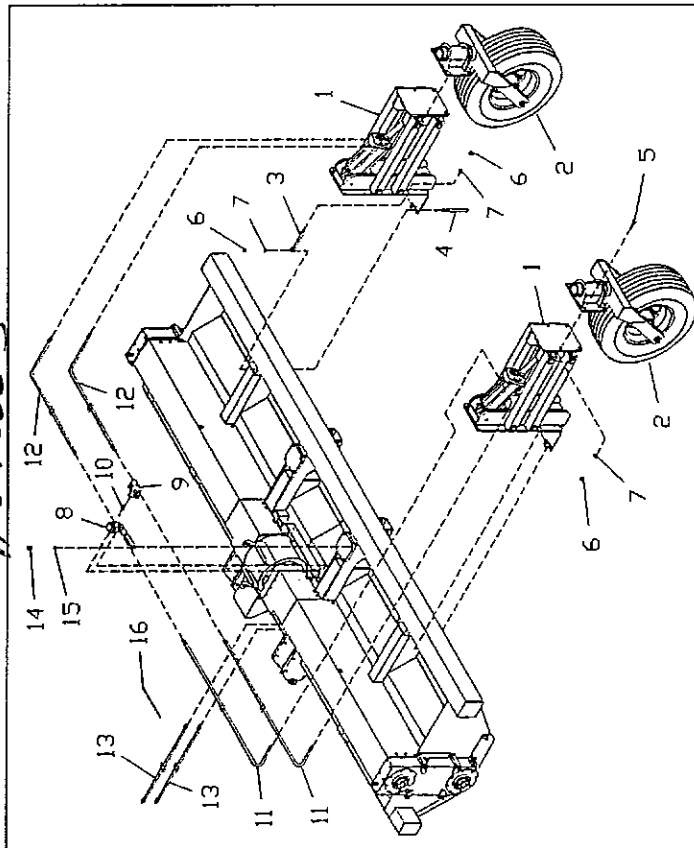
375450 & 375460

M373870
SCALE 1:100

NO BASE DRAWING

SHORT LIFT ASSIST ASSEMBLY-369650

ALL MODELS



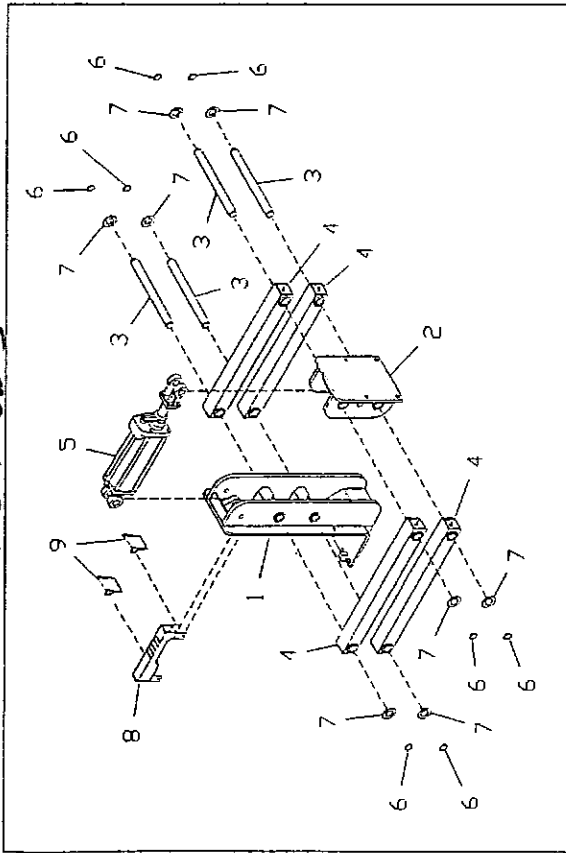
1	2	368310	ASSY, LIFT ASSIST, SHORT
2	2	368340	FORK ASSY, TIRE & WHEEL
3	8	373490	EYEBOLT, 3/4-10x9-1/2
4	8	E672449	BOLT, HHCS, 3/4-10x9-1/2
5	8	990550	BOLT, HHCS, 3/4-10x2-1/4
6	24	J14H794	NUT, HEX, 3/4-10
7	24	036800	WASHER, LOCK, 3/4
8	1	369470	MANIFOLD, 1/2 NPTx2 CROSS
9	1	369520	DIVIDER, HYD, FLOW, 1/2 NPT
10	1	166250	FIT, HYD, NIPPLE, 1/2 NPT
11	2	029310	HOSE ASSY, 100R2 1/2 NPT x 102
12	2	369540	HOSE ASSY, 100R2 1/2 NPT x 126
13	2	369530	HOSE ASSY, 100R2 1/2 NPT x 114
14	-	E672055	BOLT, HHCS, 5/8-11x1
15	-	020440	WASHER, LOCK, 5/8
16	-	JH77698	CABLE TIE, 14" BLACK

TX1SIZE (1)

M369650
SCALE 1:40

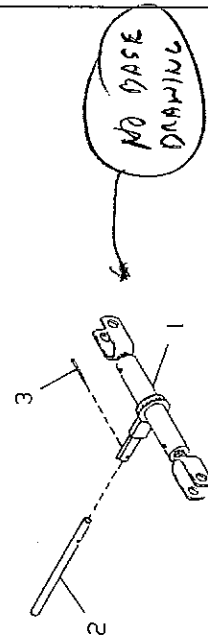
SHORT LIFT ASSIST ASSEMBLY-368310

ALL MODELS



1	368110	FRAME W/LDT, SUPPORT, FRONT
2	1 368200	FRAME W/LDT, SUPPORT, REAR
3	4 368240	SHAFT, PIVOT
4	4 368250	ARM W/LDT, PARALLEL LINK
5	1 368320	CYLINDER, HYDRAULIC, 4x10 V/STROKE CONTROL
6	8 368330	RING, RETAINING, EXTERNAL 1.5 SHAF
7	8 E126099	BUSHING, MACHINE 1.5 x 18 GA.
8	1 384600	STOP W/LDT, CYLINDER
9	2 R18650	PIN, SNAPPER, .312 x 1-3/4

RATCHET JACK ASSEMBLY-V172600



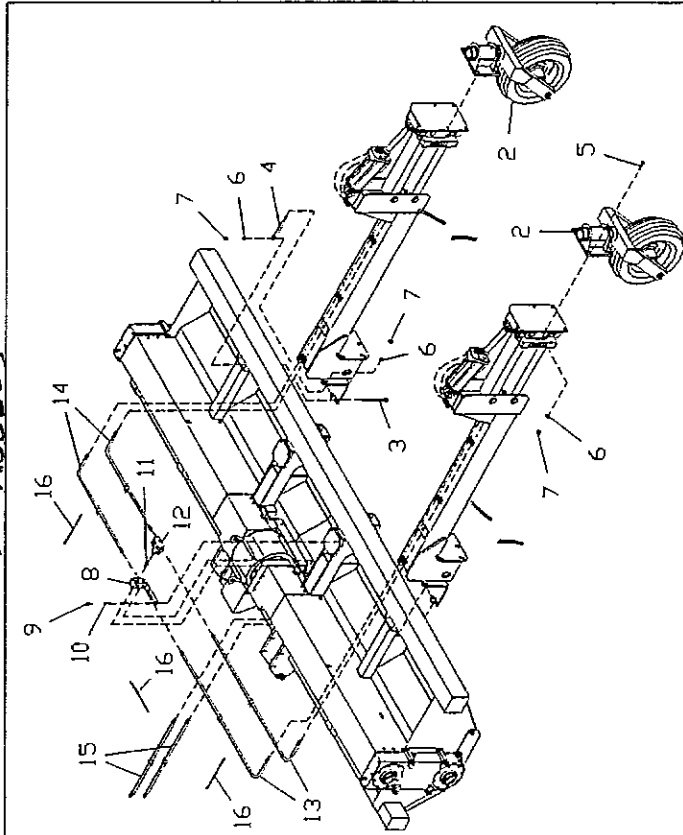
1	V240476	JACK, RATCHET
2	1 V172630	HANDLE, JACK
3	1 026630	PIN, COTTER 5/32x1-1/2

1X1SIZE (1)

M368310
SCALE 1:24

LONG LIFT ASSIST ASSEMBLY-389620

ALL MODELS



OR 457960 NEW SHORTER STYLE

1	2	390030	ASSY, LIFT ASSIST, LONG
2	2	289900	FORK ASSY, TIRE & WHEEL
3	8	E672449	BOLT, HHCS, 3/4-10x9-1/2
4	8	373490	EYE BOLT, 3/4-10x9-1/2
5	8	990530	BOLT, HHCS, 3/4-10x2-1/4
6	24	036800	WASHER, LOCK, 3/4
7	24	J14H794	NUT, HEX, 3/4-10
8	1	369470	MANIFOLD, 1/2 NPTx2 CROSS
9	2	E672055	BOLT, HHCS, 5/8-11x1
10	2	020440	WASHER, LOCK, 5/8
11	1	166250	FIT, HYD, NIPPLE, 1/2 NPT
12	1	369520	DIVIDER, HYD, FLOW, 1/2 NPT
13	2	385790	HOSE ASSY, 100R2 1/2NPTx180
14	2	007350	HOSE ASSY, 100R2 1/2NPTx200
15	2	369530	HOSE ASSY, 100R2 1/2NPTx114
16	-	JH77698	CABLE TIE, 14" BLACK

ENTER SIZE (1)

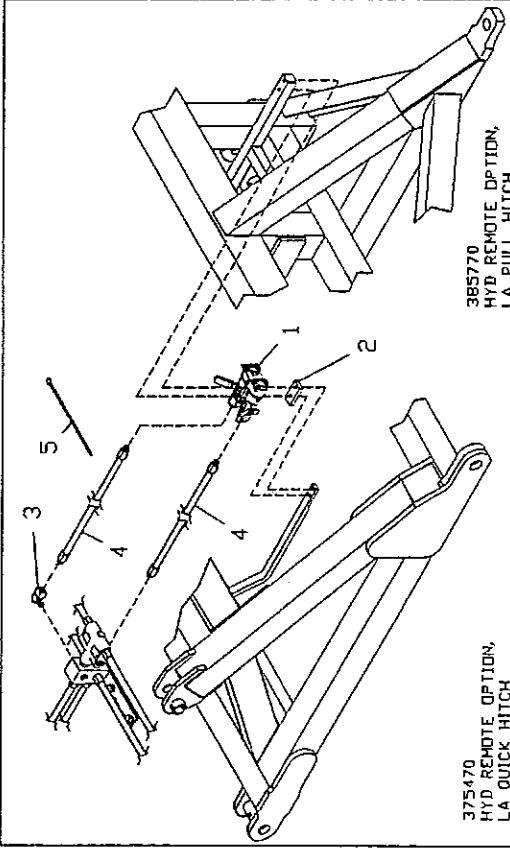
M389620

SCALE 1:40

7

*b280WC

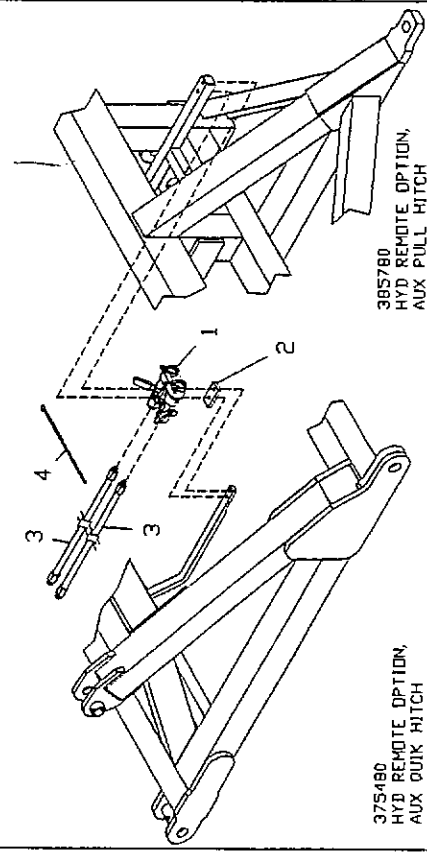
HYDRAULIC REMOTES ALL MODELS



375470
HYD REMOTE OPTION,
LA QUICK HITCH

385770
HYD REMOTE OPTION,
LA PULL HITCH

1	375490	COUPLER, HYD, QUICK
2	375500	PLATE, SPACER
3	166230	FIT. HYD. STL 1/2NPTx90"
4	023170	HOSE ASSY, 100R2 1/2 NPT x 55 (375470, LA QUICK HITCH)
5	166160	HOSE ASSY, 100R2 1/2 NPT x 72 (385770, LA PULL HITCH)
6	JH77598	CABLE TIE, 14" BLACK



375480
HYD REMOTE OPTION,
LA QUICK HITCH

385780
HYD REMOTE OPTION,
LA PULL HITCH

1	375490	COUPLER, HYD, QUICK
2	375500	PLATE, SPACER
3	166150	HOSE ASSY, 100R2 1/2 NPT x 168 (375480, AUX QUICK HITCH)
4	385790	HOSE ASSY, 100R2 1/2 NPT x 180 (385780, AUX PULL HITCH)
5	JH77698	CABLE TIE, 14" BLACK

TEXT SIZE (1)

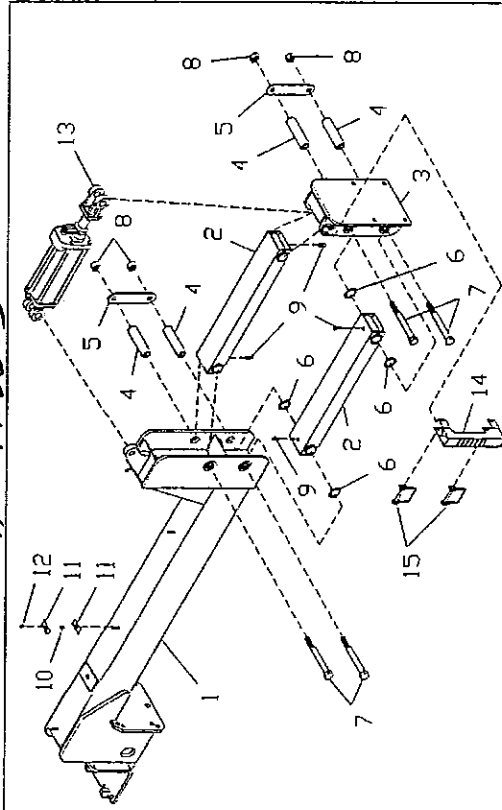
M375470
SCALE 1:16

375530
375540

LONG LIFT ASSIST ASSEMBLY-390030

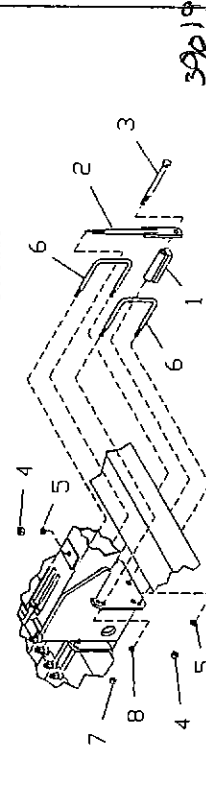
OLD STYLE

ALL MODELS



1	399630	FRAME WLDT, SUPPORT, FRONT
2	389800	LINK WLDT, PARALLEL
3	389830	FRAME WLDT, SUPPORT REAR
4	389910	TUBE, PIVOT
5	389920	STRAP, BOLT
6	389930	WASHER, 1.78x1.50x12 GA.
7	390070	BOLT, HHCS, 1-8x9
8	110440	NUT, HEX, 1-8 LOCK NYLON
9	110550	ZERK, 1/8-27 NPT 90°x1.25
10	053840	SPACER, 3/8 SCH40 x .44
11	1100214	CLAMP, HOSE
12	368320	NUTLOCK 3/8-16 NYLON HEX
13	384600	CYL, HYD, 4x10 V-STROKE C
14	384600	STOP WLDT, CYLINDER
15	318560	PIN, SHAPPER, .312 x 1-3/4
16	962340	LUBE, 2SI HEP GREASE

PLANTER MOUNTING KIT-390110



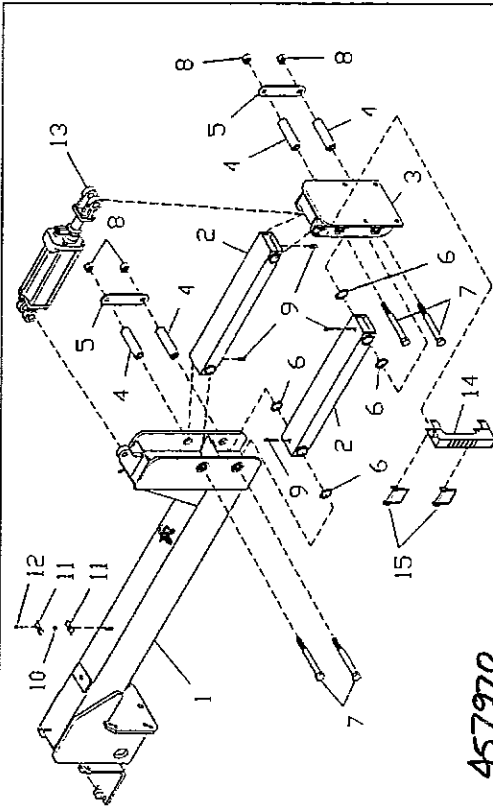
1	390130	SPACER WLDT, LOWER
2	390160	TAB WLDT, LIFT
3	390120	BOLT, HHCS, 7/8-9x10
4	E552017	NUT, HEX, 7/8-9 UNC
5	003460	WASHER, LOCK 7/8
6	238890	BOLT, ISO U, .75x8.75x7.06x2.0
7	J14H794	NUT, HEX, 3/4-10 UNC
8	035800	WASHER, LOCK, 3/4

TX1512 (1)

M390030

SCALE 1:24

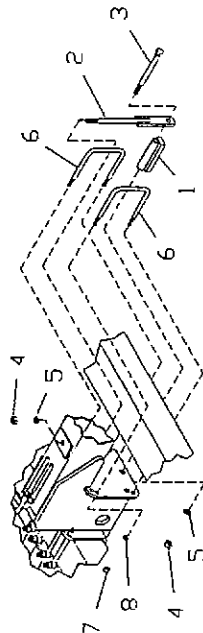
LONG LIFT ASSIST ASSEMBLY ~~390000~~
457960 NEW STYLE
 ALL MODELS SHORTER



457970

1	1	999660	FRAME VLDT, SUPPORT, FRONT
2	2	389800	LINK VLDT, PARALLEL
3	1	389830	FRAME VLDT, SUPPORT REAR
4	4	389910	TUBE, PIVOT
5	2	389920	STRAP, BOLT
6	8	389930	WASHER, 1.78x1.25x12 GA.
7	4	390070	BOLT, HHCS, 1-8x9
8	4	1110440	NUT, HEX, 1-8 LOCK NYLON
9	4	010550	ZERK, 1/8-27 NPT 90°x1.25
10	4	053840	SPACER, 3/8 SCH40 x .44
11	1	JN185041	CLAMP, HOSE
12	1	1100214	NUTLOCK, 3/8-16 NYLON HEX
13	1	368320	CYL, HYD, 4x10 1/2 STROKE C
14	1	384600	STOP VLDT, CYLINDER
15	2	R18660	PIN, SHAPPER, .312 x 1-3/4
16	-	962340	LUBE, 251 HEP GREASE

PLANTER MOUNTING KIT-390110



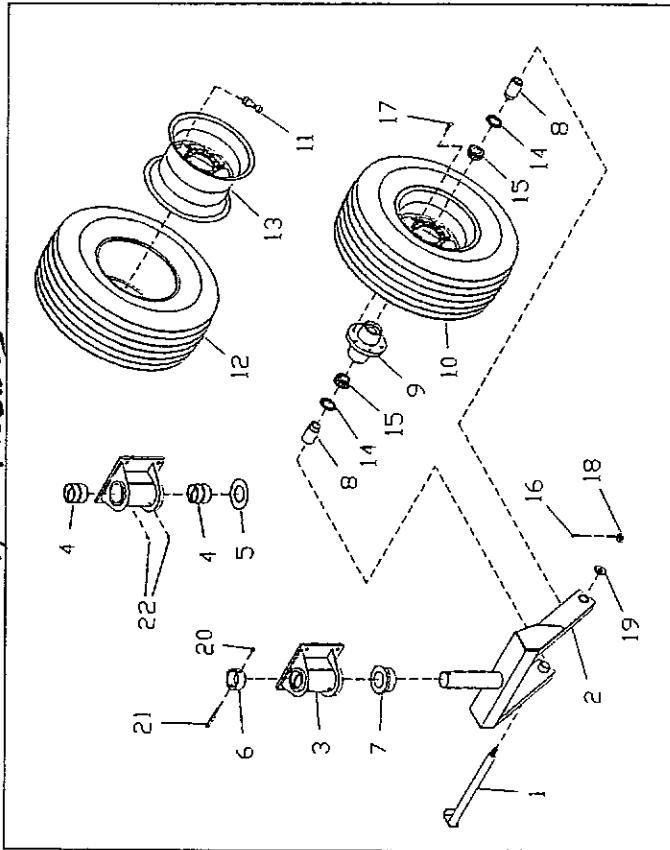
1	2	390130	SPACER VLDT, LOWER
2	2	390160	TAB VLDT, LIFT
3	2	390120	BOLT, HHCS, 7/8-9x10
4	4	E552017	NUT, HEX, 7/8-9 UNC
5	4	003460	WASHER, LOCK 7/8
6	4	E38850	BOLTSO U, .75x8.75x7.06x2.0
7	8	J141794	NUT, HEX, 3/4-10 UNC
8	8	035800	WASHER, LOCK, 3/4

TEXT SIZE (1)

M3900.30
 SCALE 1:24

TIRE & WHEEL FORK ASSEMBLY-368340

ALL MODELS



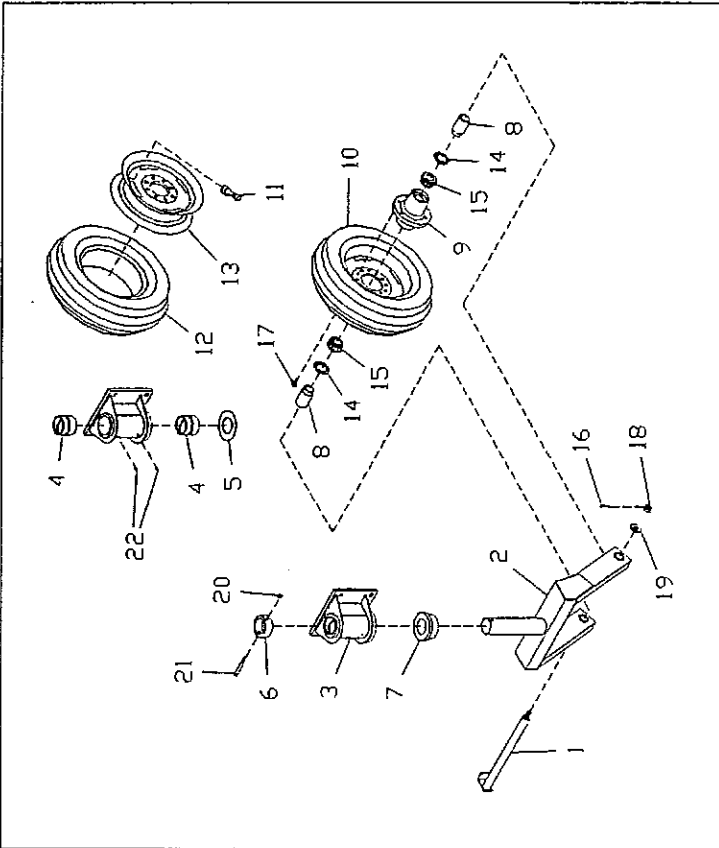
1	1	373660	AXLE W/LT., CASTERING WHEEL
2	1	373610	FORK W/LT., CASTERING WHEEL
3	1	368280	BOLSTER W/LT., REAR
4	2	369570	RUSHING, BRONZE
5	1	369580	WASHER, THRUST, BRONZE
6	1	279150	CAP, SHAFT
7	1	369610	TUBE W/LT., THRUST
8	2	279160	SPACER, AXLE
9	1	278020	HUB ASSY, 6-BOLT
10	1	373680	WHEEL & TIRE ASSY 12.5L-16SL
11	1	164420	VALVE STEM V/CORE & CAP
12	1	373740	TIRE, 12.5L-16SL 14 PLY RIB
13	1	374080	WHEEL W/LT.-18 1.12-OFF SET 5-HOLE
14	2	341100	SEAL, CRH20078
15	2	113330DB	CONE, BRG TRKN H2788
16	1	003450	PIN, CUTTER 3/16x1-1/4
17	6	042440	BOLT, LUG .56x112 UNF
18	1	128830	NUT, 7/8x1-1/4 SLDT HEX
19	1	1453599R1	WASHER, FLAT, .906x2.0x.22
20	-	127890	NUT, 1/2-13 2-WAY STAKED
21	-	030420	BOLT, HHCS, 1/2-13x 4 1/2
22	-	115590	ZERRK, 174-20 LURE
23	-	962340	GREASE, MOBIL-(LBS.)
24			

TEXT SIZE ()

M368340
SCALE 1:24

TIRE & WHEEL ASSEMBLY 10x15 SL-389900

ALL MODELS

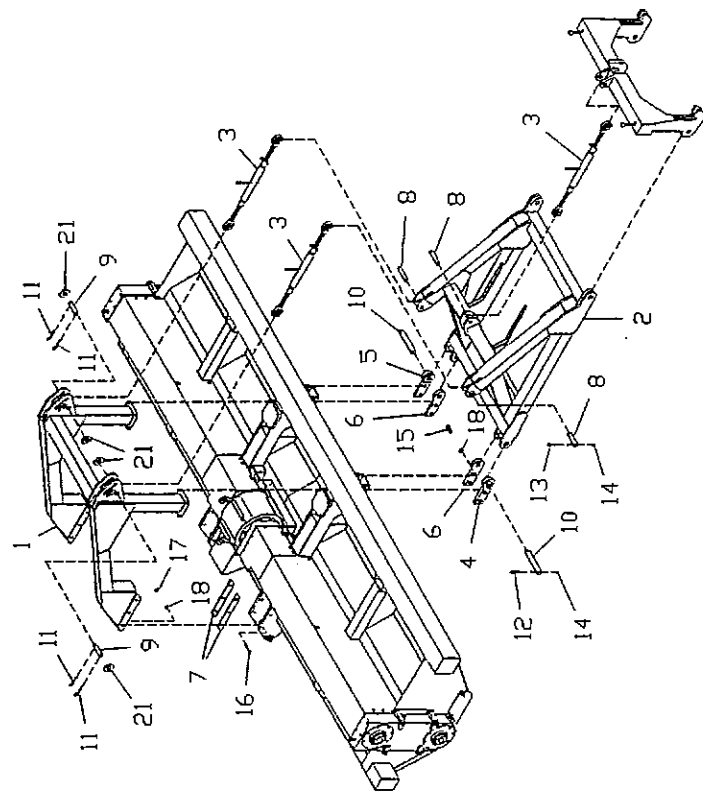


1	1	278850	AXLE W/LT., CASTERING WHEEL
2	1	278910	FORK W/LT., CASTERING WHEEL
3	1	368280	BOLSTER W/LT., REAR
4	2	369570	BUSHING, BRONZE
5	1	369580	WASHER, THRUST, BRONZE
6	1	279130	CAP, SHAFT
7	1	369610	BOLSTER, FORK
8	2	279160	SPACER, AXLE
9	1	278020	HUB ASSY, 6-BOLT
10	1	220730	WHEEL & TIRE ASSY 10-15SL
11	1	164420	VALVE STEM V/CORE & CAP
12	1	148640	TIRE, TUBELESS 1000 x 15 8-PLY
13	1	018710	RIM, 8 x 15
14	2	341100	SEAL, CR#20078
15	2	11333008	CONE, BRG TMKH #2788
16	1	003450	PIN, COTTER 3/16x1-1/4
17	6	042440	BOLT, LUG .56x1.12 UNF
18	1	129830	NUT, 7/8x1-1/4 SLOT HEX
19	1	1453599R1	WASHER, FLAT .906x2.0x.22
20	-	127890	NUT, 1/2-13 2-WAY STAKED
21	-	030460	BOLT, HHCS, 1/2-13x 4 1/2
22	-	115590	ZERR, 1/4-20 LUBE
23	-	962340	GREASE, MOBIL-(LBS.)
24			

TEXT SIZE (1)

M38-19100
SCALE 1:24

QUICK HITCH ASSEMBLY-369030
 ALL MODELS



1	368610	FRAME VLDT, FRONT TRUSS
2	368750	FRAME VLDT, REAR CARRIER
3	369000	LUG, CAT3, 125 PIN
4	369060	LUG VLDT, HITCH LH.
5	369070	LUG VLDT, HITCH RH.
6	369080	LUG, HITCH
7	369040	SHIM, 12 GA.
8	369010	PIN, HITCH, 125 DIAx5.12
9	369050	PIN, HITCH, 125 DIAx4.88
10	369510	PIN, HITCH, 130 DIAx9.12
11	1471194R1	HAIRPIN CUTTER, .25x3.7
12	037630	BOLT, HHCS, 3/8-16x2-1/2
13	029930	BOLT, HHCS, 3/8-16x2-1/4
14	023060	NUT, LOCK, 3/8-16
15	990610	BOLT, HHCS, 5/8-11x1-1/2
16	990850	BOLT, HHCS, 5/8-11x2-3/4
17	1124589	NUT, HEX, 5/8-11
18	020440	WASHER, LOCK, 5/8
19	E672354	BOLT, HHCS, 1-8x2
20	003350	WASHER, LOCK, 1"
21	1100925	WASHER, FLAT, 1.375x3.00x.165

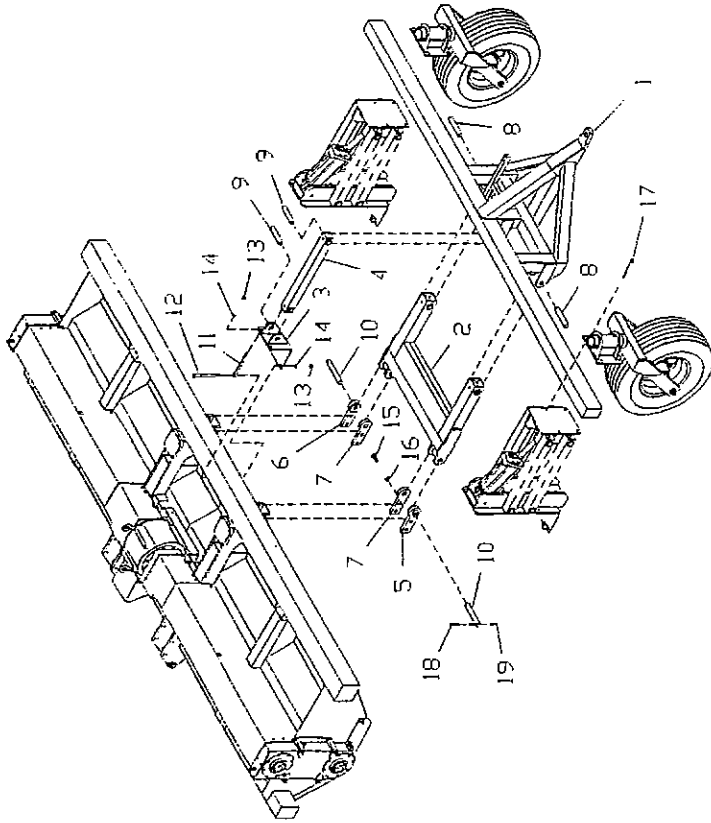
TXT SIZE (1)

M369030
 SCALE 1:40

NO APSE DRAWING

DRAWBAR HITCH OPTION-369100

ALL MODELS



1	369110	HITCH VLDT, PULLTYPE
2	369350	FRAME VLDT, LOWER PULL LINK
3	369380	CLAMP VLDT, UPPER LINK
4	369410	ARM VLDT, UPPER LINK
5	369060	LUG VLDT, HITCH L.H.
6	369070	LUG VLDT, HITCH R.H.
7	369080	LUG, HITCH
8	369430	PIN, HITCH, 1.50 DIAx7.50
9	369440	PIN, HITCH, 1.50 DIAx6.62
10	369310	PIN, HITCH, 1.50 DIAx9.12
11	373490	EYEBOLT, 3/4-10x9-1/2
12	E672073	BOLT, HHCS, 3/4-10x9-1/2
13	J14H794	NUT, HEX, 3/4-10
14	036800	WASHER, LOCK, 3/4
15	E672354	BOLT, HHCS, 1-8x2
16	003350	WASHER, LOCK, 1"
17	036730	ROLT, HHCS, 3/4-10x6-1/2
18	037630	ROLT, HHCS, 3/8-16x2-1/2
19	023060	NUT, LOCK, 3/8-16

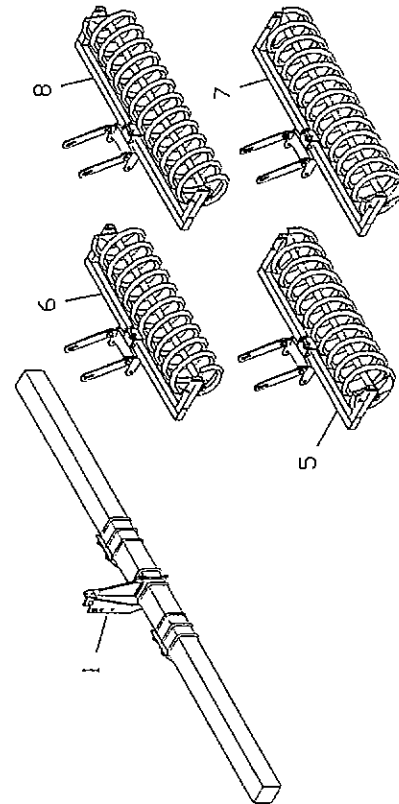
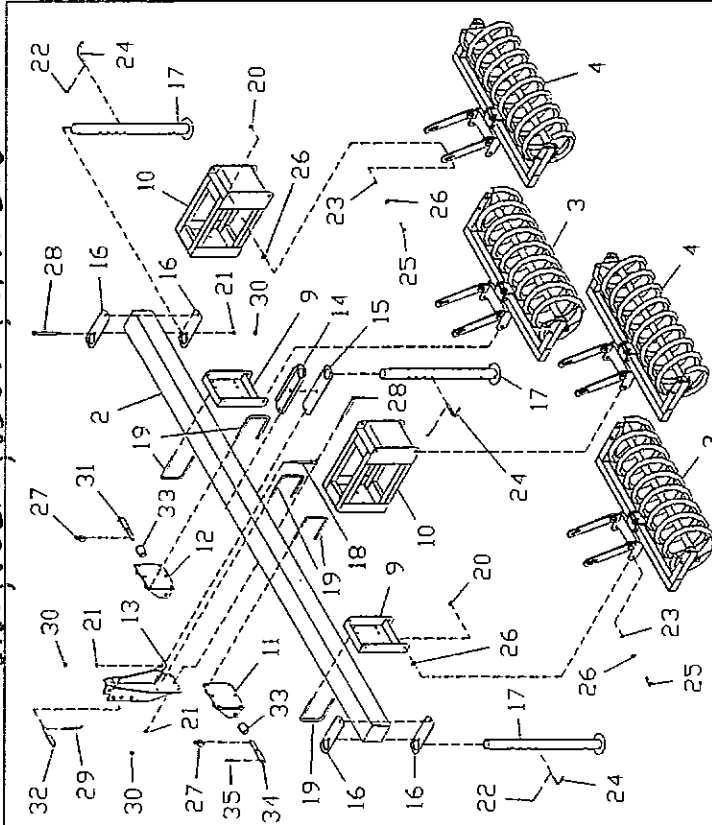
TEXT SIZE (1)

M369100
SCALE 1:40

NO BASE DRAWING

TOOLBAR & COILPACKER ASSEMBLY

PS180, PS216, PS240, & PS288



TEXT SIZE (1)

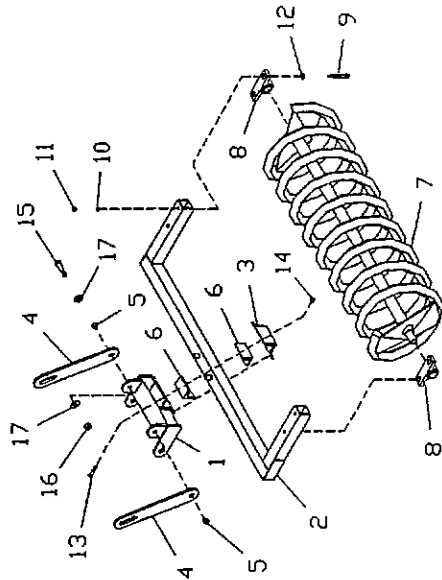
M373040
SCALE 1:40

No base drawing

373040	TOOLBAR & COIL PACKER OPTION PS180 (SHOWN)
373100	TOOLBAR & COIL PACKER OPTION PS216
373160	TOOLBAR & COIL PACKER OPTION PS240
373220	TOOLBAR & COIL PACKER OPTION PS288
373500	TOOLBAR OPTION PS180 (SHOWN)
373510	TOOLBAR OPTION PS216
373520	TOOLBAR OPTION PS240
373530	TOOLBAR OPTION PS288
373060	TUBE VLDT, TOOLBAR PS180 (SHOWN)
373120	TUBE VLDT, TOOLBAR PS216
373180	TUBE VLDT, TOOLBAR PS240
373240	TUBE VLDT, TOOLBAR PS288
373260	PACKER ASSEMBLY, 4 FT COIL, LH
373280	PACKER ASSEMBLY, 4 FT COIL, RH
373300	PACKER ASSEMBLY, 5 FT COIL, LH
373320	PACKER ASSEMBLY, 5 FT COIL, RH
373340	PACKER ASSEMBLY, 6 FT COIL, LH
373360	PACKER ASSEMBLY, 6 FT COIL, RH
373380	MOUNT VLDT, FRAME PIVOT
373400	MOUNT VLDT, FRAME EXTENSION PIVOT
373420	HITCH VLDT, LOWER LH
373440	HITCH VLDT, LOWER RH
373460	MAST VLDT, TOOLBAR
373480	PLATE VLDT, MOUNT 19"
373500	PLATE, MOUNT 14"
373520	STAND VLDT, TOOLBAR
373540	BOLT, EYE, 3/4-10x9.5
373560	BOLT, SO U, .75x8.75x7.06x2.0
373580	NUT, LOCK 3/4-10, TOP
373600	WASHER, LOCK, 3/4"
373620	PIN, HAIR CUTTER
373640	BUSHING, 1.0 ODx.782 IDx.562
373660	PIN, SUPPORT
373680	BOLT, HHCS, 3/4-10x2-1/4
373700	WASHER, FLAT, .912x2.00x.149
373720	PIN, LYNCH, 7/16x1-7/8
373740	BOLT, HHCS, 3/4-10x9-1/2
373760	PIN, CUTTER, 1/4x3.7 O.A.
373780	NUT, HEX, 3/4-10
373800	PIN ASSY, LOWER
373820	PIN, UPPER CAT 2-3
373840	SPACER, HITCH, 1.5x2.25x2-7/8
373860	PIN, LOWER CAT 2-3
373880	ROLL PIN, 1/2x3 PL.

COIL PACKER ASSEMBLY

Acc Models



1	- 372800	PACKER ASSEMBLY, 4 FT COIL, LH (SHOWN)
2	- 372810	PACKER ASSEMBLY, 4 FT COIL, RH
3	- 372820	PACKER ASSEMBLY, 5 FT COIL, LH
4	- 372830	PACKER ASSEMBLY, 5 FT COIL, RH
5	- 372840	PACKER ASSEMBLY, 6 FT COIL, LH
6	- 372850	PACKER ASSEMBLY, 6 FT COIL, RH
7	1 372850	FRAME VLDT. PIVOT
8	1 372850	FRAME VLDT. 4 FT (SHOWN)
9	372850	FRAME VLDT. 5 FT
10	372860	FRAME VLDT. 6 FT
11	1 372860	CLAMP VLDT. MOUNTING
12	2 372870	LINK, LIFT
13	2 372870	BUSHING, 100 ODX 782 IDx 562
14	2 372870	SPACER, CUSHION
15	1 372860	PACKER VLDT. 4 FT COIL, LH (SHOWN)
16	372810	PACKER VLDT. 4 FT COIL, RH
17	372820	PACKER VLDT. 5 FT COIL, LH
	372830	PACKER VLDT. 5 FT COIL, RH
	372840	PACKER VLDT. 6 FT COIL, LH
	372850	PACKER VLDT. 6 FT COIL, RH
8	2 035090	BRG. PB CI HSG 125 V/LC
9	- 035960	BOLT, HHCS, 1/2-13x4.00
10	- 005370	WASHER, LOCK, 1/2
11	- 005360	NUT, 1/2-13 HEX
12	- 1120396	WASHER, 1/2 SAE
13	- 031580	BOLT, HHCS, 1/2-13x2 3/4
14	- JK40014	NUT, 1/2-13 TOP LOCK
15	- 990560	BOLT, HHCS, 3/4-10x2 1/2
16	- JK40016	NUT, 3/4-10 TOP LOCK
17	- 990710	WASHER, .812x2.00x.14B

TX SIZE (1)

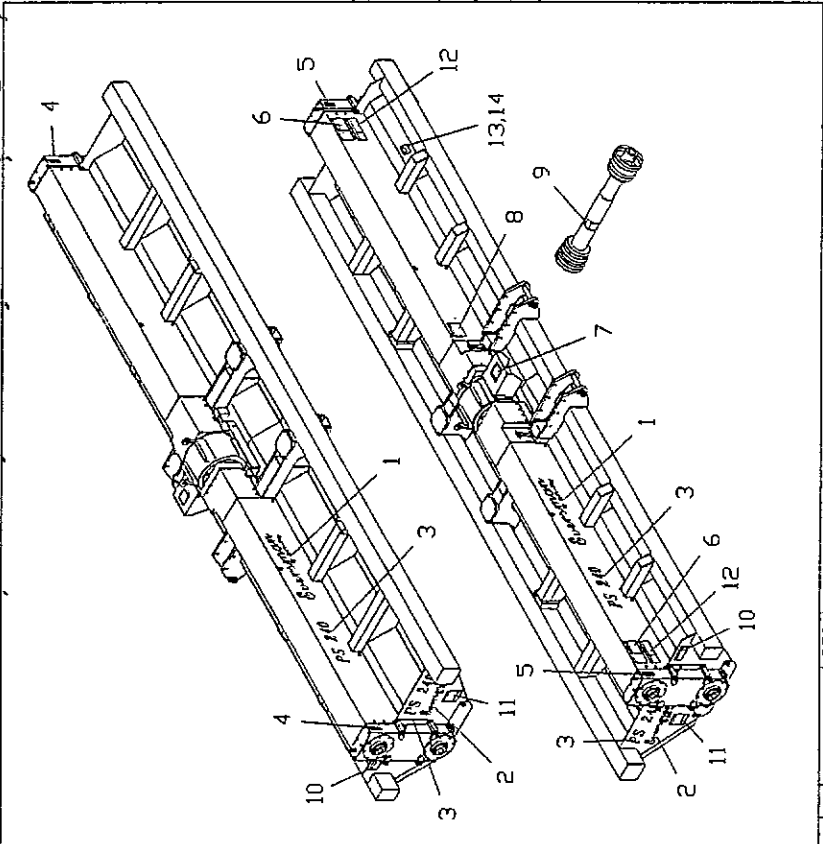
M372800
SCALE 1:24

V 240695

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DECALS AND PAINT

PS180, PS216, PS240, PS288, PS300/PS10-30



1	2	351720	DECAL, EVERSHAM BY ARTS-WAY LG.
2	2	351730	DECAL, EVERSHAM BY ARTS-WAY SM
3	4	361310	DECAL, MODEL PS 240 (SHOWN)
		362330	DECAL, MODEL PS 180 (NOT SHOWN)
		362340	DECAL, MODEL PS 216 (NOT SHOWN)
		362350	DECAL, MODEL PS 288 (NOT SHOWN)
4	2	227430	REFLECTOR, RED
5	2	227420	REFLECTOR, AMBER
6	2	346290	DECAL, DANGER, ROTATING BLADES
7	2	146010	DECAL, WARNING, COMP. ROT.
8	1	234340	DECAL, CAUTION, READ OPERATORS MANUAL
9	1	268860	DECAL, DANGER, DRIVE LINE
10	2	352540	DECAL, WARNING, KEEP CLEAR
11	2	355200	DECAL, WARNING, FLYING OBJECTS
12	2	384650	DECAL, WARNING, FALLING STRUCTURE
13	1	355500	TAG, FINISHED SERIAL NO.
14	2	204510	NAIL, 1/4 GRIP
15		022010	PAINT, ARTSVAY GREEN 1 GALLON CAN
16		043121	PAINT, ARTSVAY GREEN 16 OZ. SPRAY CAN
17		963500	PAINT, AV GREEN
18			

TX1SIZE (1)

M355270
SCALE 1:48

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