

440/640/840/1240 AUGER WAGON

**OPERATOR & PARTS
MANUAL**

M0136

Rev. 8/89

PREDELIVERY/DELIVERY CHECK LIST

TO THE DEALER

Predelivery service includes assembly, adjustment and test. This service assures that the auger wagon will be delivered to the customer ready for field use and the customer will be fully satisfied with the product's performance.

PREDELIVERY CHECK LIST

After the auger wagon has been completely assembled, use the following check list and inspect the auger wagon. Check off each item as it is found satisfactory or after proper adjustment is made.

- Wheel nuts are torqued to 425 ft. lbs.
- Tires are inflated to specified PSI of air pressure.
- Chains are aligned and properly tensioned.
- All grease fittings have been lubricated, gearbox oil level checked and chain oiler filled.
- Check to be sure all safety decals are correctly located and legible. Replace if damaged.
- Check to be sure the red reflectors and amber reflectors are correctly located.
- Check to be sure SMV decal is in place and shipping cover removed.
- Check to be sure warning lights are working.
- Test run the augers.
- Check to be sure safety screens over horizontal augers are in place.
- Paint all parts scratched in shipment.

This auger wagon has been thoroughly checked and to the best of my knowledge is ready for delivery to the customer.

(Signature of Set-up Person)

Date

DELIVERY CHECK LIST

At the time the auger wagon is delivered, the following check list is a reminder of very important information which should be conveyed directly to the customer. Check off each item as it is fully explained to the customer.

- Advise the customer that the life expectancy of this or any other machine is dependent on regular maintenance as directed in the operator's manual.
- Tell the customer about all safety precautions that must be observed while using this auger wagon.
- Advise the customer of the specified tractor requirement for use with this auger wagon.
- Along with the customer check to be sure the red and amber reflectors and SMV decal are clearly visible with the auger wagon attached to the tractor. Check to be sure the flashing warning lights are in working condition. Tell the customer to check federal, state and local regulations before towing on a road or highway.

Along with the customer check to be sure the hitch height when attached to the tractor is sufficient to prevent severe bends in PTO u-joint angles. Check to be sure PTO is correct length for making turns and operating on uneven terrain.

Complete Warranty And Delivery Report Form.

Give the operator's manual to the customer and explain all operating adjustments.

To the best of my knowledge this machine has been delivered ready for field use and customer has been fully informed as to proper care and operation.

(Signature of Delivery Person)

Date

OWNER REGISTER

Name _____

Street Address _____

City & State _____

Model _____

Serial Number _____

AFTER DELIVERY CHECK LIST

The following is a list of items we suggest to check during the first season of use of the equipment.

Check with the customer as to the performance of the auger wagon.

Review with the customer the importance of proper maintenance and safety precautions.

Check for parts that may need to be adjusted or replaced.

Check to be sure all safety shields and screens are in place.

Check to be sure all safety decals, reflectors and the SMV sign are correctly located and legible. Replace if damaged or missing.

Check to be sure warning lights are working.

Check to be sure recommended lubrication procedures are being followed.

(Signature of Follow-up Person)

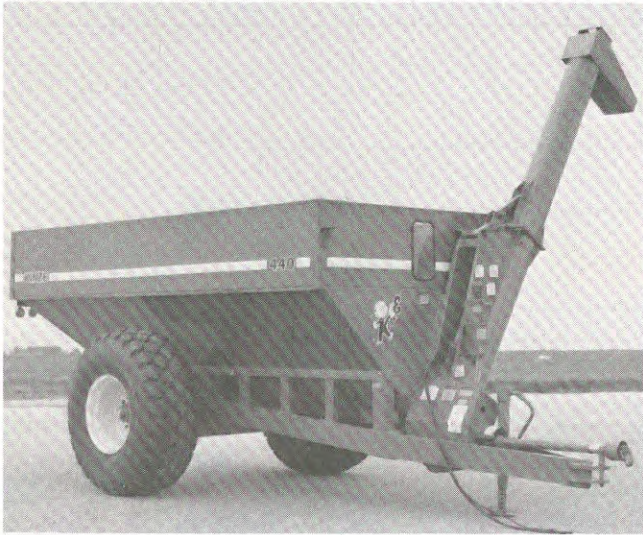
Date

**RETURN TO KINZE IMMEDIATELY, along with Warranty and Delivery Report.
Retain copy at dealership for After Delivery Check.**

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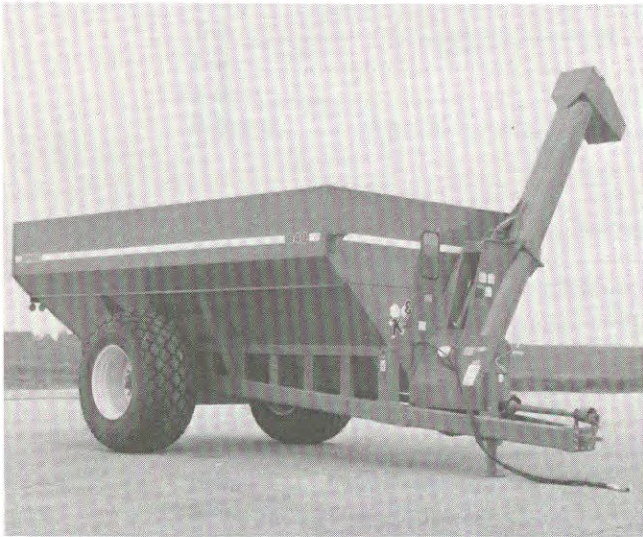
440



640



840



1240



640 Sof-Trak



840 Sof-Trak




TO THE OWNER

Kinze Manufacturing, Inc. would like to thank you for your patronage. We appreciate your confidence in KINZE farm machinery. Your KINZE auger wagon has been carefully designed and sturdily built to provide dependable operation in return for your investment.

This manual has been prepared to aid you in the operation and maintenance of the auger wagon and should be considered a permanent part of the machine and should remain with the machine when you sell it.

It is the responsibility of the user to read and understand the Operator's Manual in regards to safety, operation, lubrication and maintenance before operation of this equipment. It is the user's responsibility to inspect and service the machine routinely as directed in the Operator's Manual. We have attempted to cover all areas of safety, operation, lubrication and maintenance; however, there may be times when special care must be taken to fit your conditions.


Throughout this manual the symbol  and the words, **NOTE, CAUTION, WARNING and DANGER** are used to call your attention to important safety information. The definition of each of these terms used follows:

NOTE: Indicates a special point of information.

CAUTION: Indicates that a failure to observe can cause damage to the machine or equipment.

 **WARNING:** Indicates that a failure to observe can cause damage to the machine or equipment and/or personal injury.

 **DANGER:** Indicates that a failure to observe can cause most serious damage to the machine or equipment and/or most serious personal injury.

 **WARNING:** Some photos in this manual may show safety covers, shields or lockups removed for visual clarity. **NEVER OPERATE** the machine without all safety covers, shields and lockups in place.

NOTE: Some photos in this manual may have been taken of prototype machines. Production machines may vary in appearance.

NOTE: Some photos and illustrations in this manual show optional attachments installed. Contact your KINZE Dealer for purchase of optional attachments.

This manual is applicable to: Model 440, Serial Number 1988 and on
 Model 640, Serial Number 2023 and on
 Model 840, Serial Number 2103 and on
 Model 1240, Serial Number 2900 and on
 Model AW, Serial Number 2333 and on

Record the model number and serial number of your auger wagon with date purchased:

Model Number _____

Serial Number _____

Date Purchased _____

 **DANGER:** Because of load capacities on bridges and roads and because the wagon is not equipped with brakes, the wagon is not intended for hauling on public roadways. It is the operator's responsibility to be aware of and follow federal, state and local regulations in this regard.

WARRANTY

The KINZE Limited Warranty for your new machine is stated on the back of the retail purchaser's copy of the Warranty And Delivery Report form.

Warranty, within the warranty period, is provided as part of KINZE's support program for registered KINZE products which have been operated and maintained as described in this manual. Evidence of equipment abuse or modification beyond original factory specifications will void the warranty. Normal maintenance, service and repair is not covered by KINZE warranty.

To register your KINZE product for warranty, a Warranty And Delivery Report form must be completed by the KINZE Dealer and signed by the retail purchaser, with copies to the Dealer, to the retail purchaser and to KINZE. Registration must be completed and sent to KINZE within 30 days of delivery of the KINZE product to the retail purchaser. KINZE reserves the right to refuse warranty on serial numbered products which have not been properly registered.

Additional copies of the Limited Warranty can be obtained through your KINZE Dealer.

If service or replacement of failed parts which are covered by the Limited Warranty are required, it is the user's responsibility to deliver the machine along with the retail purchaser's copy of the Warranty And Delivery Report to the KINZE Dealer for service. Kinze warranty does not include cost of travel time, mileage, hauling or labor. Any prior arrangement made between the Dealer and the retail purchaser in which the Dealer agrees to absorb all or part of this expense should be considered a courtesy to the retail purchaser.

KINZE warranty does not include cost of travel time, mileage, hauling or labor.

INTRODUCTION

This manual has been written to cover the 440, 640, 840 and 1240 Model KINZE Auger Wagons.

GENERAL INFORMATION

The information and photos used in this manual were current at the time of printing. However, due to KINZE's continual attempt to improve its product, possible in-line production changes may cause your machine to appear slightly different in detail. KINZE Manufacturing reserves the right to change specifications or design without notice and without incurring obligation to install the same on machines previously manufactured.

Right hand and left hand as used throughout this manual is determined by facing in the direction the machine will travel when in use.

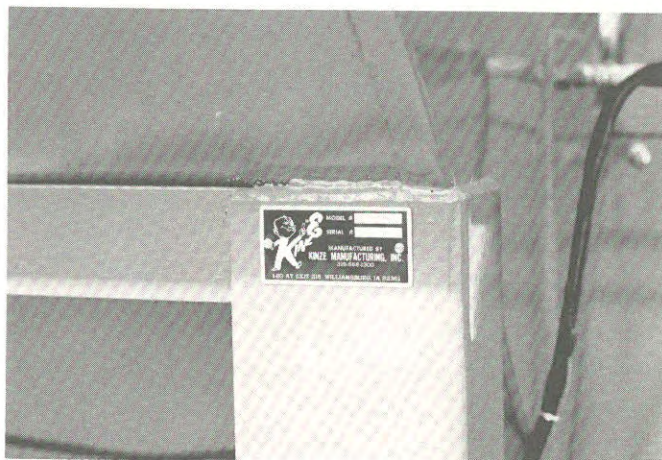
SERIAL NUMBER

The serial number provides important information about your auger wagon and may be required to obtain the correct replacement part.

The serial number plate is located on the front right hand corner of the wagon frame. It is suggested that the serial number also be recorded in the space provided in the front of this manual. Always provide the serial number and model number when ordering parts from your KINZE dealer or anytime correspondence is made with KINZE Manufacturing.

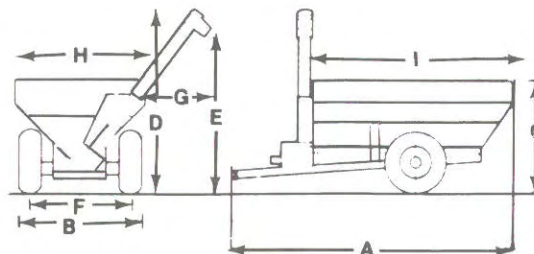


440, 840, 1240



640

SPECIFICATIONS

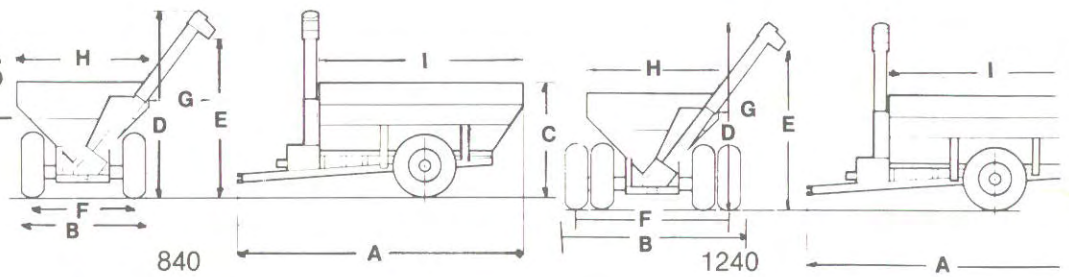


MODEL	440	640
OVERALL DIMENSIONS		
(A) Total Length	21'7"	23'2"
(B) Total Width (Auger Folded)	10'0"	11'0"
(C) Height (To Top Of Grain Tank)	8'5"	9'2"
(D) Height (To Top Of Auger)	14'6"	15'0"
(E) Height (To Tip Of Spout)		
With Tip Extension	12'	12'3"
Without Tip Extension	12'6"	N/A
(F) Width (Tire Center To Center)	96"	105"
(G) Side Of Wagon To Tip Of Spout		
With Tip Extension	4'8"	4'7"
Without Tip Extension**	4'2"	N/A
GRAIN TANK SPECIFICATIONS		
(H) Total Width	8'2"	10'1"
(I) Total Length	15'4"	16'1"
Total Level Full Capacity (15% Moisture Corn) Construction	440 Bu.	625 Bu.
	(Full 12 Gauge Construction)	
WEIGHTS		
Empty Hitch Weight	1,340 Lbs.	1,760 Lbs
Loaded Hitch Weight	2,660 Lbs.	3,920 Lbs.
Total Wagon Weight-Empty	5,590 Lbs.	8,140 Lbs.
Total Wagon Weight-Loaded	30,270 Lbs.	43, 240 Lbs.
UNLOADING TIME*		
BUSHELS/MINUTE*	3½ Minutes	3 Minutes
TRACTOR REQUIREMENTS		
SUSPENSION		
Axle	8" H-Beam/35 Lb.	8" H Beam/48 Lb.
Spindle	¾" Dia. (Bolt In)	½" Dia. (Welded)
Hub	10 Bolt	10 Bolt
Wheel	20"x 26"	21"x 32"
Tire Size	23.1 x 26, 8 Ply	27"x 32" W/120" Axle 24.5 x 32, 12 Ply 30.5 x 32, 12 Ply W/ 120" Axle
FRAME		
	8" Reinforced Channel Iron	3"x 8" Tube (¼)
AUGERS (5/16" Helicoid Flighting)		
Vertical	12" Full Pitch, R.H.	14" Full Pitch, R.H.
Horizontal		
Front	9" Full Pitch, L.H.	12" Full Pitch, L.H.
Rear	9" Full Pitch, L.H.	12" 2/3 Pitch, L.H.

* Time varies with RPM and moisture content of grain.

** Spout tip extension is standard equipment on all models.

SPECIFICATIONS



MODEL	840	840 SPECIAL	1240
OVERALL DIMENSIONS			
(A) Total Length	27'	27'	31'10"
(B) Width To Outside Of Tire	11'3"	11'3"	13'6"
(C) Height (To Top Of Tank)	9'6"	9'8"	10'6"
(D) Height (To Top Of Auger)	15'5"	15'5"	15'5"
(E) Height (To Tip Of Spout)			
With Tip Extension	12'7"	12'7"	12'7"
Without Tip Extension**	13'	13'	13'
(F) Width (Tire Center To Center)	105"	98"	56"/136"
(G) Side Of Wagon To Tip Of Spout			
With Tip Extension	5'	5'	4'4"
Without Tip Extension	3'4"	3'4"	2'8"
GRAIN TANK SPECIFICATIONS			
(H) Total Width	10'	10'	11'6"
(I) Total Length	20'	20'	24'
Total Level Full Capacity (15% Moisture Corn)	825 Bu.	800 Bu.	1225 Bu.
Construction	(12 Gauge Steel Side Panels W/10 Gauge End Panels)		
WEIGHTS			
Empty Hitch Weight	2,200 Lbs.	2,200 Lbs.	3,060 Lbs.
Loaded Hitch Weight	5,950 Lbs.	5,950 Lbs.	7,160 Lbs.
Total Wagon Weight-Empty	11,215 Lbs.	11,350 Lbs.	17,840 Lbs.
Total Wagon Weight-Loaded	57,415 Lbs.	56,150 Lbs.	86,440 Lbs.
UNLOADING TIME*			
BUSHEL/MINUTE*	3 Minutes	3 Minutes	4 1/2 Minutes
TRACTOR REQUIREMENTS	290	290	290
	Large 2WD Or 4WD	Large 2 WD Or 4 WD	4 WD
SUSPENSION			
Spindle	4 1/2" Dia.(Welded)	4 1/2" Dia. (Welded)	4 1/2" Dia.(Welded)
Hub	10 Bolt	10 Bolt	10 Bolt
Wheel	27 x 32	37 x 32	21 x 32
			27 x 32(Optional)
Tire Size	30.5 x 32, 12 Ply	73 x 44.00 x 32, 12 Ply	24.5 x 32, 16 Ply 30.5 x 32, 12 Ply (Optional)
FRAME			
	4"x 8" Tube (3/8)	4"x 8" Tube (3/8)	4" x 8" Tube (3/8)
AUGERS (5/16" Helicoid Flighting)			
Vertical	16" Full Pitch, R.H.	16" Full Pitch, R.H.	16" Full Pitch, R.H.
Horizontal			
Front	12" Full Pitch, L.H.	12" Full Pitch, L.H.	12" Full Pitch, L.H.
Center	None	None	12" Full Pitch, L.H.
Rear	12" 2/3 Pitch, L.H.	12" 2/3 Pitch, L.H.	12" 2/3 Pitch, L.H.


* Time varies with RPM and moisture content of grain.


** Spout tip extension is standard equipment on all models.


SAFETY PRECAUTIONS


 Always disengage PTO and shut off tractor engine before:

1. Leaving tractor seat.
2. Lubricating the auger wagon.
3. Cleaning out debris.


 Always keep hands, feet and clothing away from moving parts.


 Make certain tractor is in safe operating condition with adequate braking capabilities, especially when operating on uneven terrain.


 Never operate the auger wagon without PTO guards, tractor master shield and implement guards in place. Make certain PTO guards turn freely and are properly attached.


 Always make certain U-joint yokes are securely locked on tractor and implement shaft before operating wagon.


 Grease telescoping PTO shaft regularly to minimize thrust forces.


 Never exceed 1000 PTO RPM or operate the PTO at full RPM with the augers empty.


 Always use adequate lights or safety warnings when transporting the wagon on public roads and after dark. Check with local law enforcement agencies for specific requirements.


 Always make certain there is adequate overhead clearance before folding or unfolding the unloading auger.


 Limit towing speed to 15 MPH when empty and 10 MPH when loaded.

 Never permit any persons other than the operator to ride on the tractor and never permit persons to ride on or in the wagon at any time.


 Always fold unloading auger to down position before transporting wagon.


 This machine has been designed and built with your safety in mind. Any alteration to the design or construction may create safety hazards. Do not make any alterations or changes to the equipment, but if any alterations or changes are made you must follow all appropriate safety standards and practices to protect you and others near this machine from injury.

 Before applying pressure to the hydraulic system, make sure all connections are tight and that hoses and fittings have not been damaged. Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin, causing injury or infection.

 Because of load capacities on bridges and roads and because the wagon is not equipped with brakes, the wagon is not intended for hauling on public roadways. It is the operator's responsibility to be aware of and follow federal, state and local regulations in this regard.

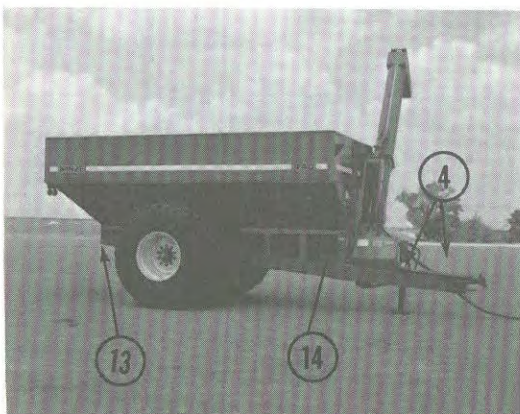
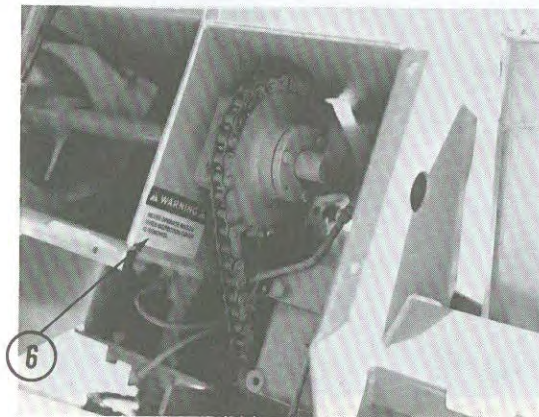
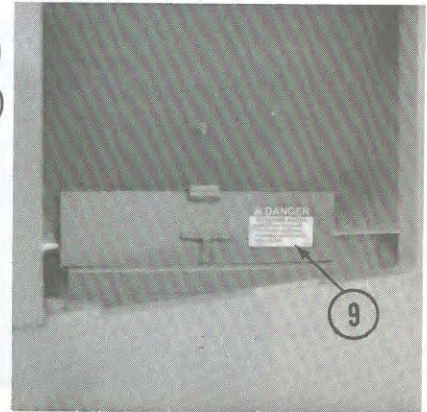
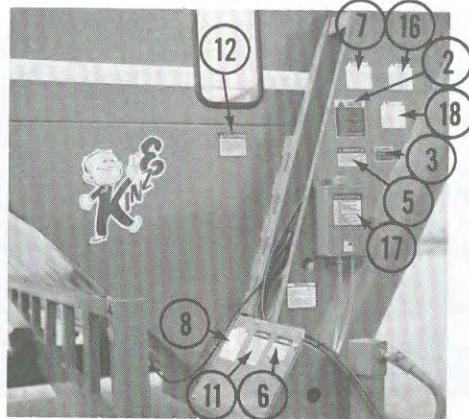
 At all times keep children off of auger wagon.

 Rim and tire servicing can be dangerous. Explosive separation of a tire and rim parts can cause serious injury or death.

 The multipiece rim used on the Sof-Trak Wagon requires that specific procedures and safety instruction be followed in mounting and demounting of the tires. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. This should only be done by persons properly trained and equipped to do the job. Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. When inflating tires, use a clip-on air chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage to enclose the tire and rim assembly when inflating. Inspect tires and wheels daily. Do not operate with low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.

The “WARNING” signs illustrated on these pages are placed on the machine to warn of hazards. “The warnings found on these signs are for your personal safety and those around you.” **OBSERVE THESE WARNINGS!**

- Keep these signs clean so they can be observed readily. Wash with soap and water or cleaning solution as required.
- Replace “WARNING” signs should they become damaged, painted over or if they are missing.
- Check the SMV decal periodically. Replace if it shows loss of any of its reflective property.
- When replacing decals, clean the machine surface thoroughly using soap and water or cleaning solution to remove all dirt and grease.

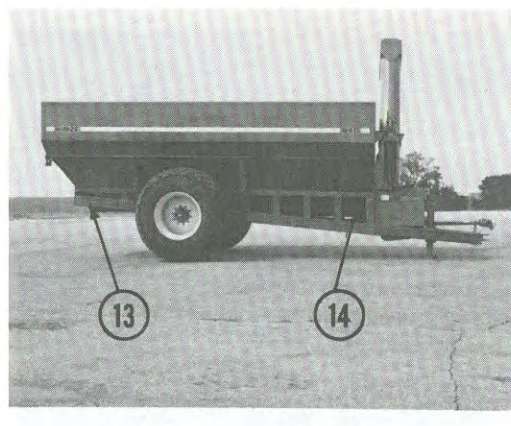
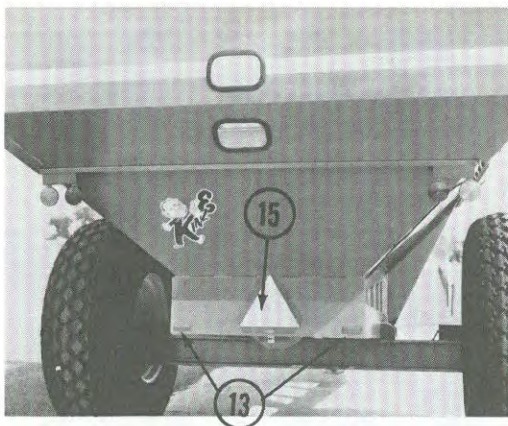
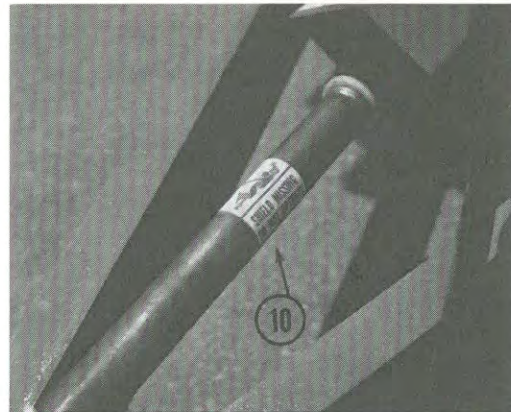
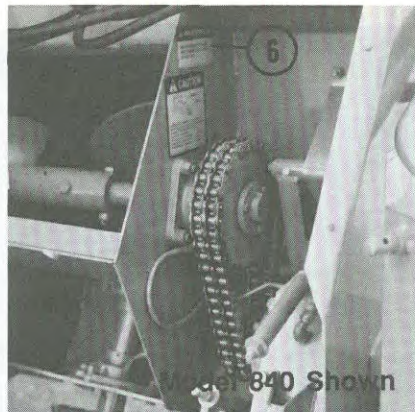
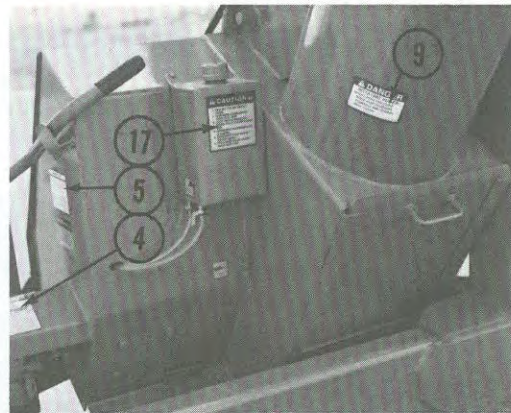
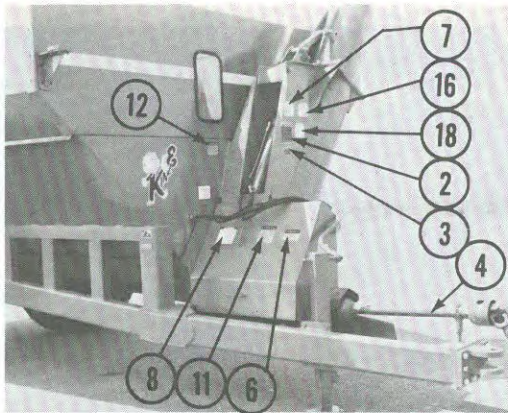


SAFETY WARNING SIGNS ⚠

640/840

The “WARNING” signs illustrated on these pages are placed on the machine to warn of hazards. “The warnings found on these signs are for your personal safety and those around you.” **OBSERVE THESE WARNINGS!**

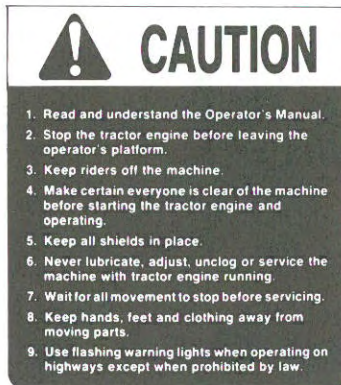
- Keep these signs clean so they can be observed readily. Wash with soap and water or cleaning solution as required.
- Replace “WARNING” signs should they become damaged, painted over or if they are missing.
- Check the SMV decal periodically. Replace if it shows loss of any of its reflective property.
- When replacing decals, clean the machine surface thoroughly using soap and water or cleaning solution to remove all dirt and grease.



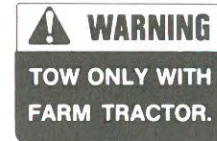
SAFETY WARNING SIGNS



1. Part No. 7100-10
440 Only
(SN 1988-2192)



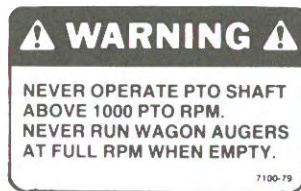
2. Part No. 7100-46
All Models



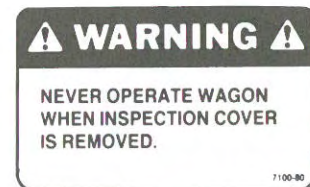
3. Part No. 7100-56
All Models



4. Part No. 7100-67
All Models



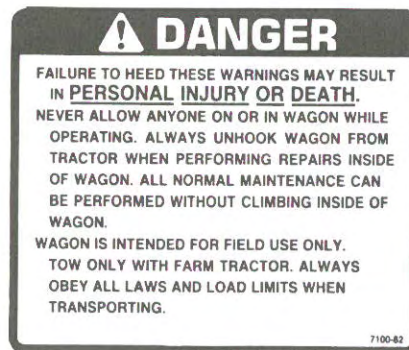
5. Part No. 7100-79
All Models



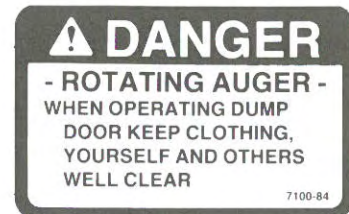
6. Part No. 7100-80
All Models



7. Part No. 7100-81
All Models



8. Part No. 7100-82
All Models



9. Part No. 7100-142
All Models

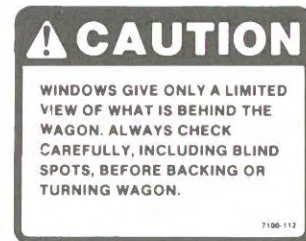
SAFETY WARNING SIGNS



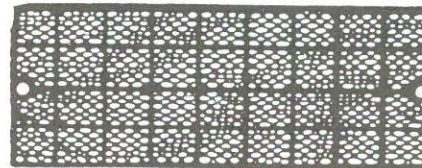
10. Part No. 7100-86
All Models



11. Part No. 7100-90
All Models



12. Part No. 7100-112
All Models
(Where Applicable)



13. Part No. 7200-03
Red Reflector(Qty. 4)
All Models



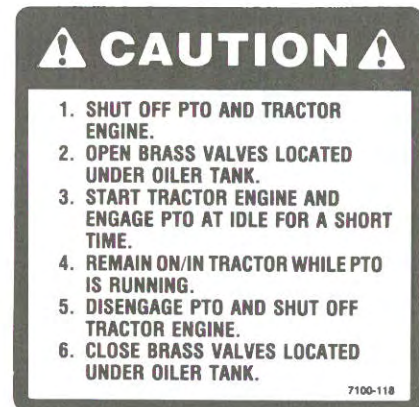
14. Part No. 7200-04
Amber Reflector(Qty. 2)
All Models



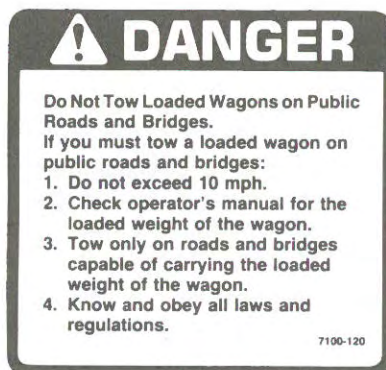
15. Part No. 7100-36
SMV Decal
All Models



16. Part No. 7100-117
All Models



17. Part No. 7100-118
All Models



18. Part No. 7100-120
All Models



19. Part No. 7100-134
All Models
(Located on auger drive cover shield)

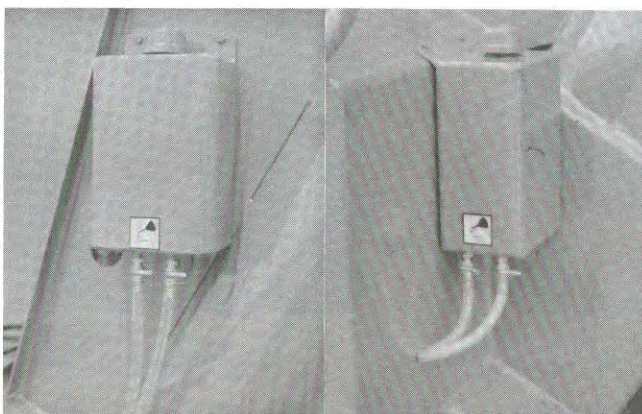
LUBRICATION

The following pages show the location of all lubrication points. Proper lubrication of all moving parts will help ensure efficient operation of your KINZE auger wagon and prolong the life of friction producing parts.

AUGER BEARINGS, HINGE AND PTO ASSEMBLY

Those parts equipped with grease fittings should be lubricated at the frequency indicated with an SAE multi-purpose type grease. Be sure to clean the fitting thoroughly before using grease gun. The frequency of lubrication recommended is based on normal operating conditions. Severe or unusual conditions may require more frequent attention.

DRIVE CHAINS



The auger wagon is equipped with a one gallon capacity chain oiler system that enables you to safely and conveniently lubricate the drive chains without removing the inspection cover. A quality engine oil or equivalent SAE 30 weight oil should be used. The chains should be lubricated at least daily or more frequently if desired, particularly under extreme operating conditions.

Chain oiler operation:

1. Shut off PTO and tractor engine.
2. Open brass valves located under oiler tank.
3. Start tractor engine and engage PTO at idle for a short time.

DANGER: Remain on/in tractor while PTO is running.

4. Disengage PTO and shut off tractor engine.
5. Close brass valves located under oiler tank.

DANAGER: Never turn oiler on or work around PTO, gearbox or chains and sprockets or allow anyone else to do so while PTO is running.

CAUTION: Extreme operating conditions such as dirt, temperature or speed may require more frequent lubrication.

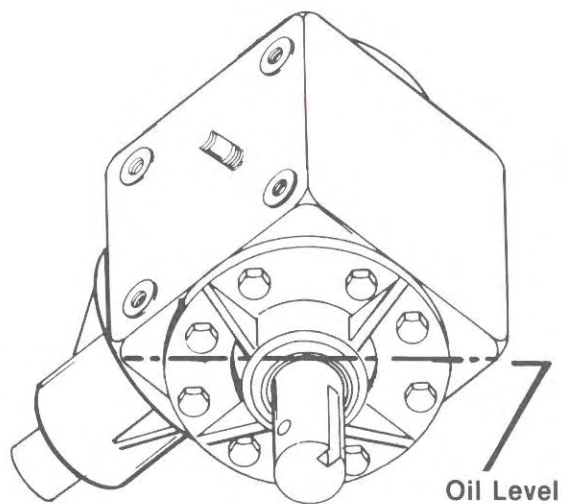
! DANGER: NEVER REACH UNDER THE WAGON TO OIL CHAINS WHILE THE CHAINS ARE MOVING. THE SPROCKETS AND CHAINS COULD PULL YOU INTO THE DRIVELINE RESULTING IN SEVERE INJURY OR DEATH!

! DANGER: DO NOT OPERATE WAGON WITH INSPECTION COVER REMOVED.

WHEEL BEARINGS

Wheel bearings should be checked annually. Jack wheel off the ground and remove cap. Inspect for lubrication. Check for endplay in the bearings by moving the tire in and out. Rotate the tire to check for roughness in the bearings. If bearings sound rough, the hub should be removed and the bearings inspected and replaced if necessary. See "Wheel Bearing Packing and Replacement" in the Maintenance Section of this manual.

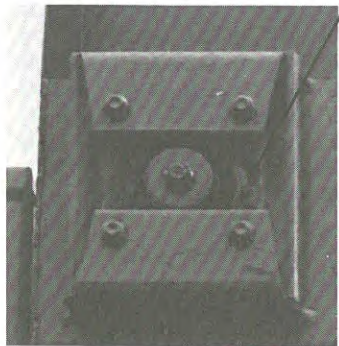
GEARBOX



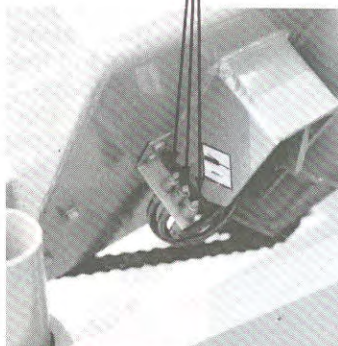
Oil level should never exceed more than half way up on the cross shaft. Fill as needed with SAE 90 oil.



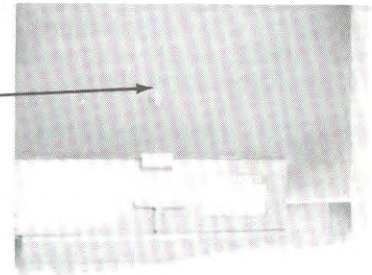
Rear Horizontal Auger Bearing



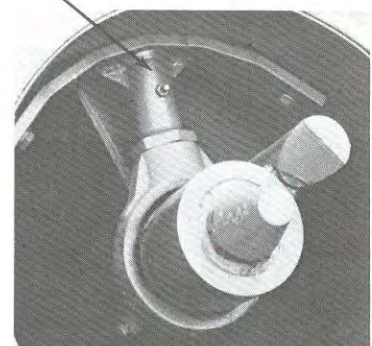
Upper Vertical Auger Bearing



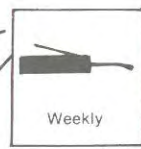
Lower Vertical Auger Bearings
Front Horizontal Auger Bearing



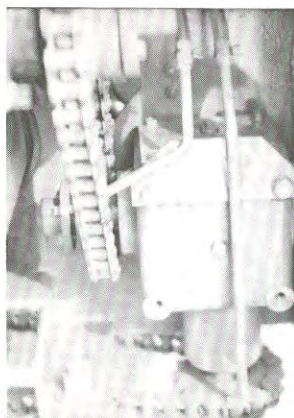
Horizontal Auger Center Carrier Bearing



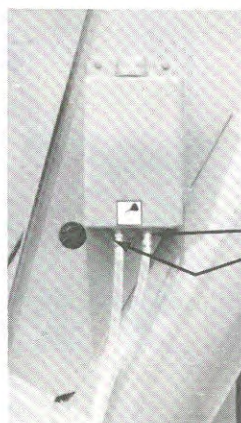
Vertical Auger Center Carrier Bearing



Weekly

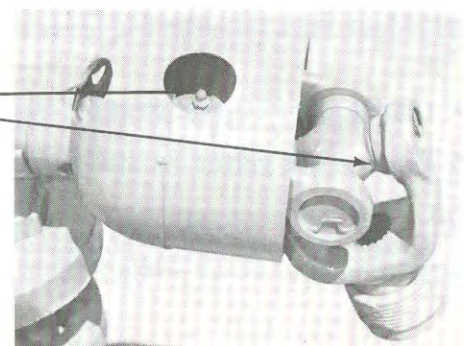


Drive Chains

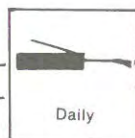


Daily

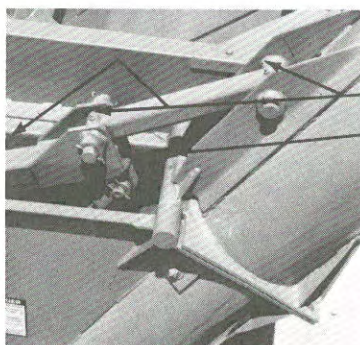
Rear Yoke



PTO Assembly

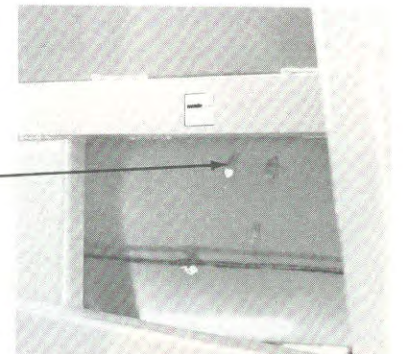
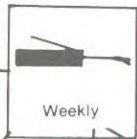
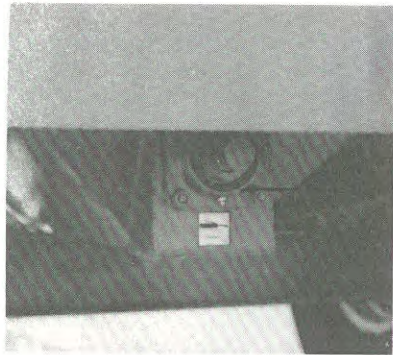


Daily

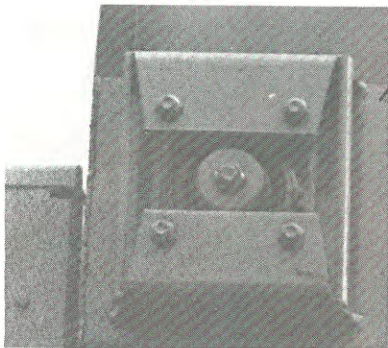


Fold Linkage and Hinge

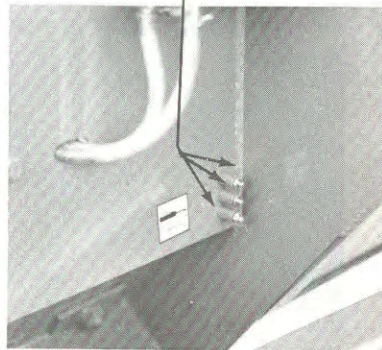
CAUTION: Extreme operating conditions such as dirt, temperature or speed may require more frequent lubrication.



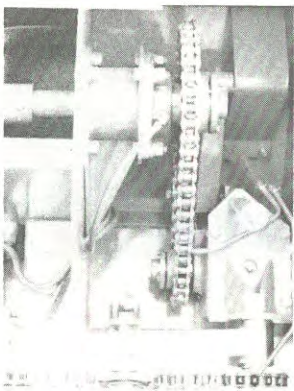
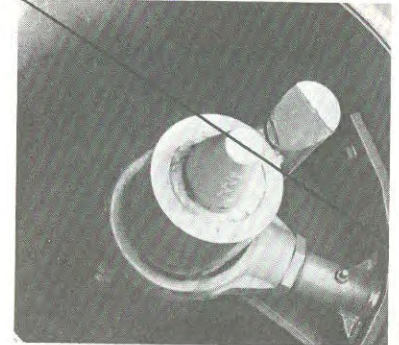
Horizontal Auger Center Carrier Bearing



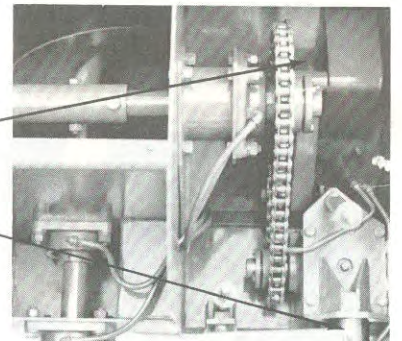
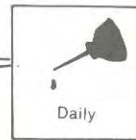
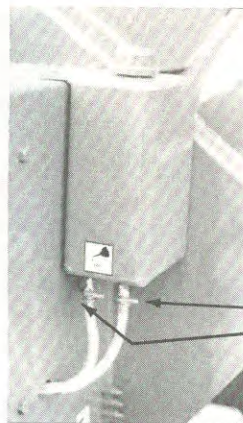
Upper Vertical Auger Bearing



Lower Vertical Auger Bearings
Front Vertical Auger Bearing



Drive Chains

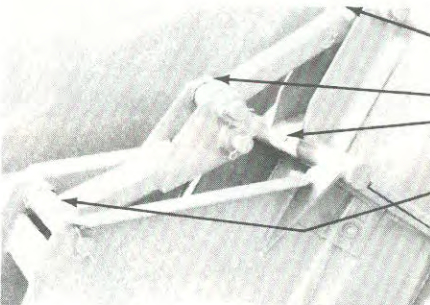


Horizontal and Vertical
Drive Chain Idlers

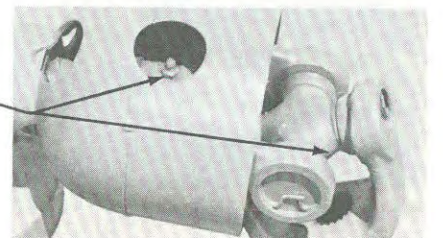
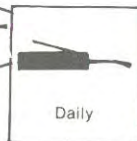
Rear Yoke



Front Yoke



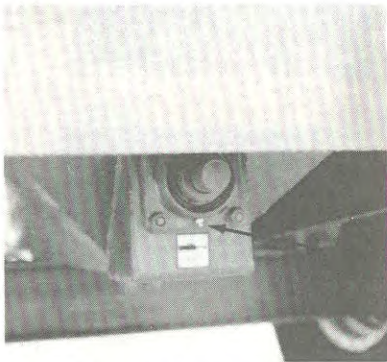
Fold Linkage and Hinge



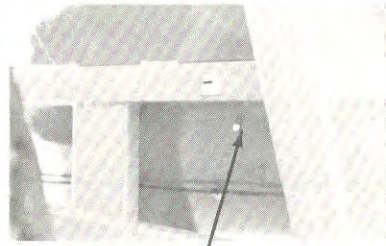
PTO Assembly

CAUTION: Extreme operating conditions such as dirt, temperature or speed may require more frequent lubrication. 6-3

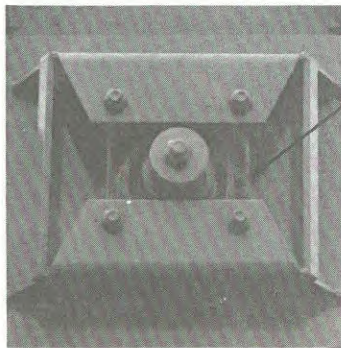
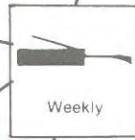
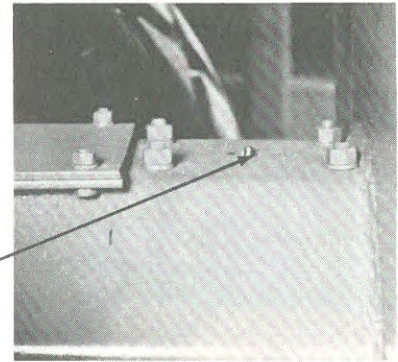
Horizontal Auger Center Carrier Bearing 840 and 840 Special Only



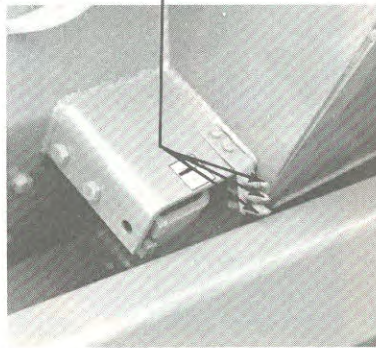
Rear Horizontal Auger Bearing



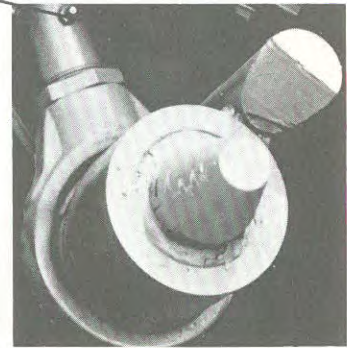
Horizontal Auger Center Carrier Bearing
(1 Per Side) 1240 Only



Upper Vertical Auger Bearing



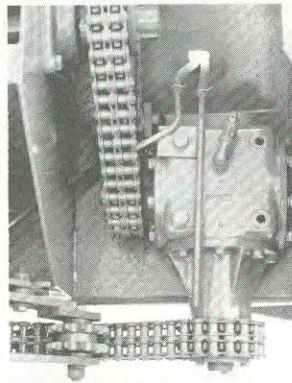
Lower Vertical Auger Bearings



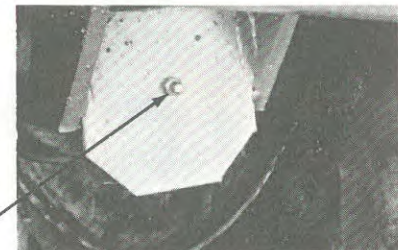
Front Horizontal Auger Bearing



Vertical Auger Center Carrier Bearing

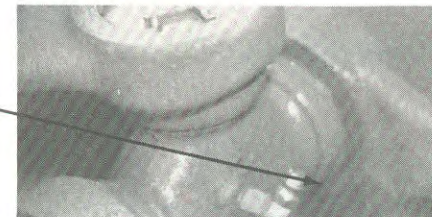


Drive Chain

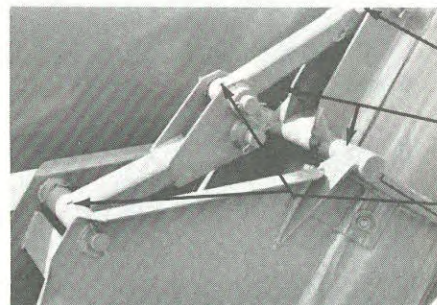


Axle Assembly Pivot (2 Per Side)
1240 Only

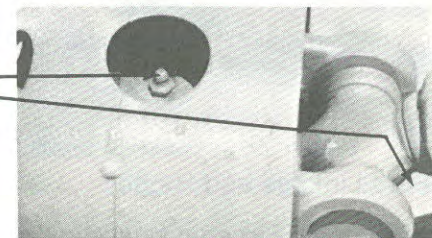
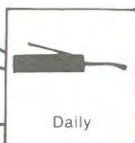
Rear Yoke



Front Yoke

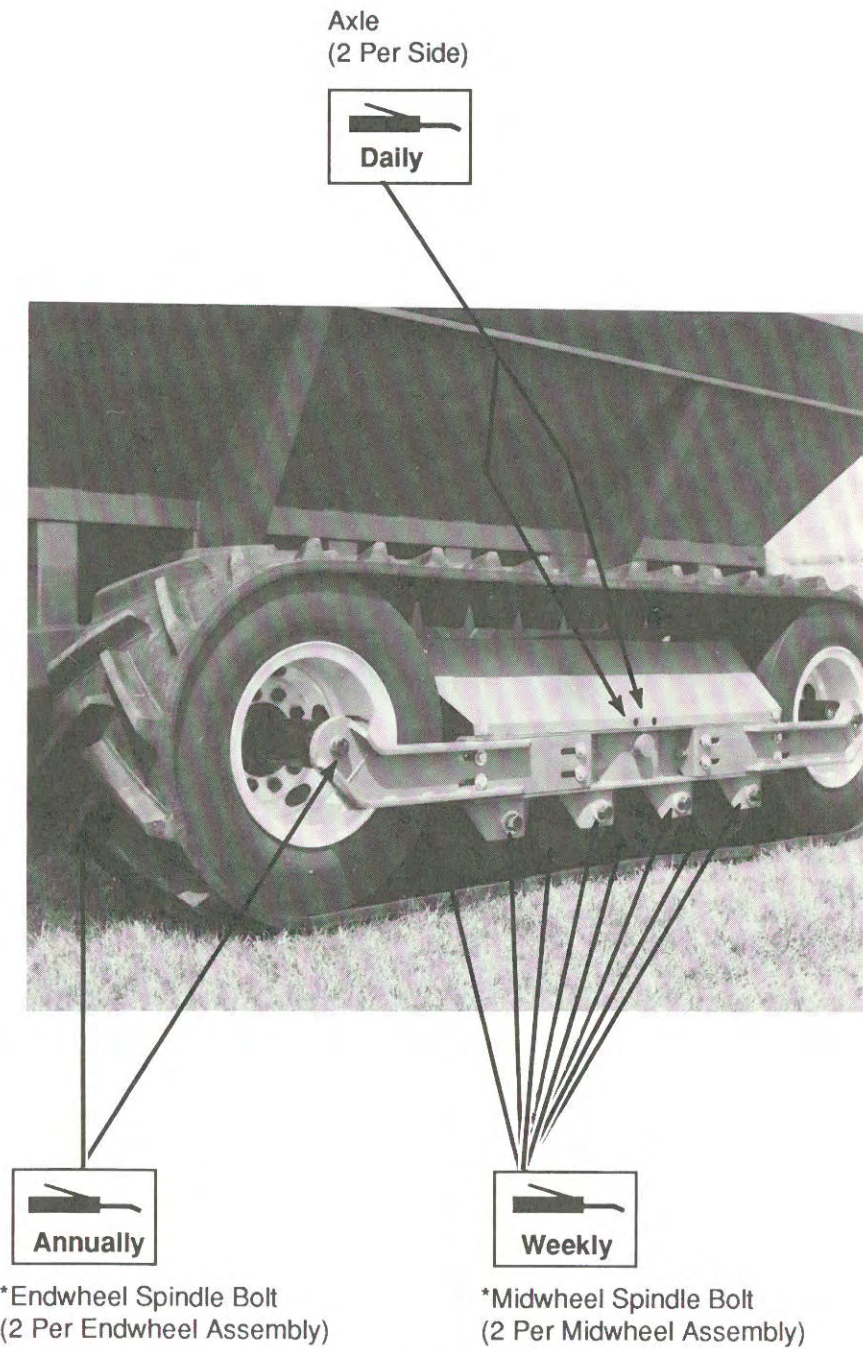


Fold Linkage and Hinge



PTO Assembly

CAUTION: Extreme operating conditions such as dirt, temperature or speed may require more frequent lubrication. 6-4



* Pump grease into hub until grease comes out around the seals.

OPERATION

The following information is general in nature and was written to aid the operator in preparing the tractor and auger wagon for use and providing general operating procedures.

INITIAL PREPARATION OF THE WAGON

Lubricate the auger wagon per the lubrication information in this manual prior to initial operation and at prescribed intervals thereafter. Most importantly, make sure all tires have been properly inflated prior to each use. Check all drive chains for proper tension and lubrication.

TRACTOR PREPARATION AND HOOKUP

1. Slide tractor drawbar in as far as it will go and still allow PTO shaft to have sufficient clearance to prevent damage to drive line components when making sharp turns and operating over uneven ground.

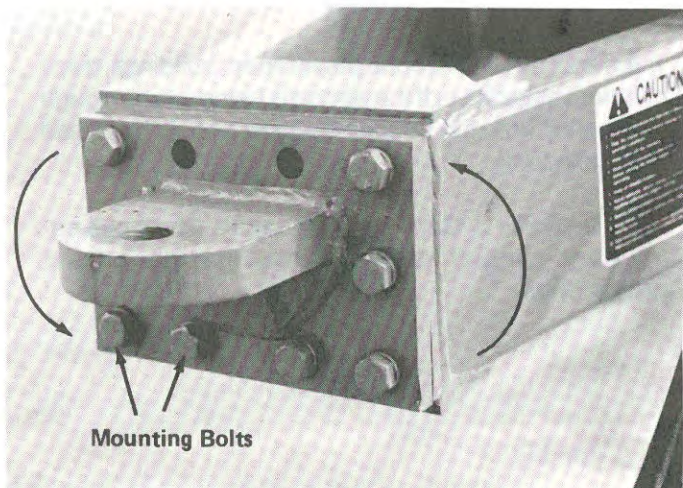
2. Connect auger wagon to tractor hitch using a high quality hitch pin of sufficient length to secure pin with a locking device or using a Grade 5 bolt, lock washer and hex nut.

Recommended pin diameter:

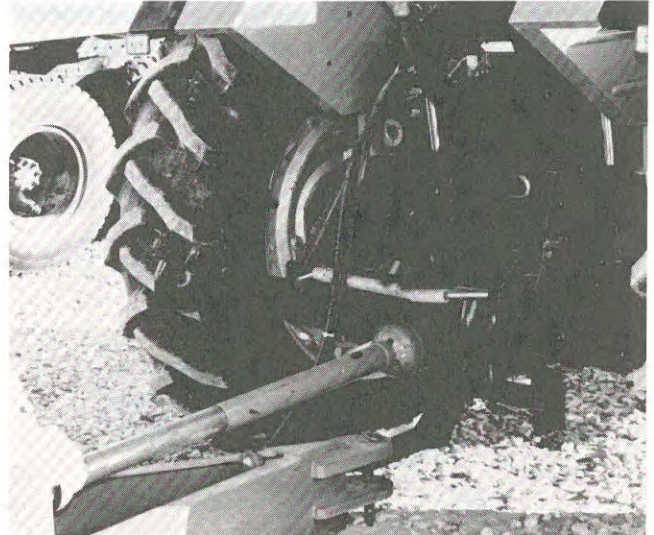
Model 440	1 1/8"
Model 640	1 1/2"
Model 840/1240 (Single Tang)	1 3/4"
Model 840/1240 (Double Tang)	1 1/2"

3. Attach wagon PTO connecting yoke to tractor PTO shaft. Be sure spring loaded yoke pin engages groove in tractor PTO shaft. Check that slip tube grease fitting is visible through hole of outer tube.

CAUTION: Ensure that hitch height is sufficient to prevent severe bends in PTO U-joint angles.



NOTE: Either the standard single tang hitch cap or the optional double tang hitch cap on the 640 and 840 model wagon can be turned over for an additional 1 1/2" hitch height adjustment. (Recommended mounting bolt torque - 380 ft. lbs.)



4. Attach quick disconnect fitting to ends of hydraulic hoses to match tractor hydraulic ports. (ISO couplers standard equipment) Connect hydraulic hoses to tractor ports in a sequence which is both familiar and comfortable to the operator.

! WARNING: Before applying pressure to the hydraulic system, make sure all connections are tight and that hoses and fittings have not been damaged. Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin, causing injury or infection.

IMPORTANT: Always wipe hose ends to remove any dirt before connecting couplers to tractor ports.

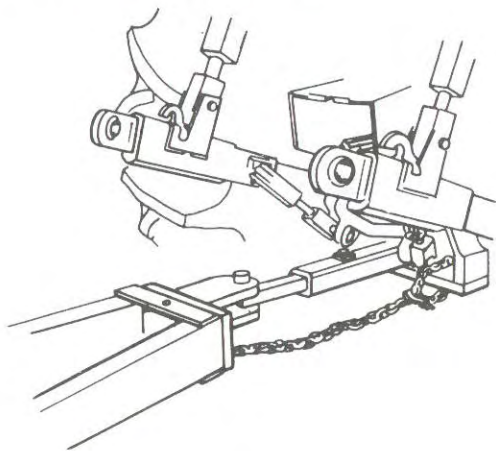
5. Raise jack to a height that will prevent damage even in uneven field conditions.

6. Connect the seven terminal breakaway connector receptacle for the light package on the wagon to the seven pin connector on the tractor. If your tractor is not equipped with the SAE Standard 7-pin connector, obtain through your local tractor supply dealer. Check to be sure the clearance lights and signal lights are working.

OPERATION

⚠ DANGER: Because of load capacities on bridges and roads and because the wagon is not equipped with brakes, the wagon is not intended for hauling on public roadways. It is the operator's responsibility to be aware of and follow federal, state and local regulations in this regard.

NOTE: If using an auxiliary attaching system to retain the connection between the auger wagon and tractor hitch, be sure the auxiliary attaching system is of sufficient strength and length and correctly attached. Also be aware of PTO clearance.



A safety chain is available through your Kinze Dealer.

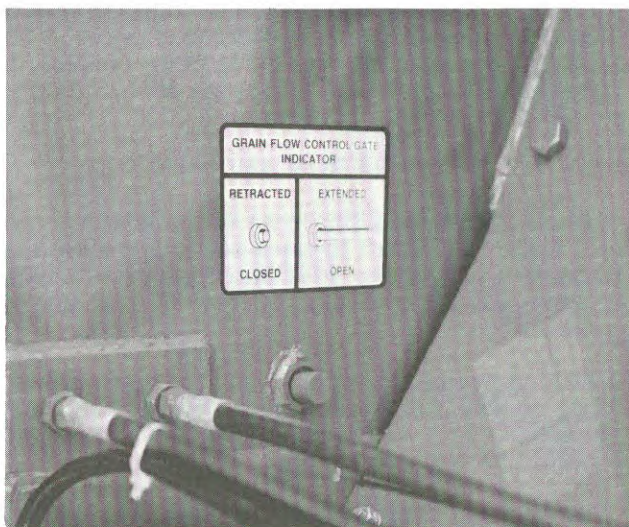
UNLOADING

The unloading speed will vary with the moisture content of the grain and the PTO speed. The amount of opening on the grain flow control gate (Optional on 440) can also be used to adjust unloading speed.

1. After checking to see that there are no power lines or other obstacles in the way, fold the unloading auger into the unloading position. The cylinder should be fully extended and the folding linkage locked overcenter to lock the augers in place. It is not necessary that the housing be bolted together. Check the speed at which the auger folds and if necessary adjust the tractor flow control. If the auger folds too fast it could damage the hinge assembly or force the spring loaded bearing at the upper end of the auger out of adjustment.

2. With clutch disengaged and tractor idling, engage PTO.

3. Open grain flow control gate. The amount of opening can be determined by the position of the control gate indicator on the front of the grain tank. (On applicable models)



4. Increase tractor RPM to the desired speed. (Not to exceed 1000 PTO RPM's.)

CAUTION: If the auger wagon is being unloaded on the move, disengage PTO before making any sharp turns.

5. As grain flow slows, reduce tractor RPM to idle.

CAUTION: Do not operate tractor PTO at full speed with the auger empty.

6. When grain flow stops, close the grain flow control gate. (On applicable models)

7. If wagon is used around power lines, buildings, trees or other obstacles or if the wagon is being used in rough field conditions, the unloading auger should be folded after unloading.

⚠ DANGER: Care must be taken when operating wagon and/or folding unloading auger around power lines.

OPERATION

CLEANOUT DOOR

All models are equipped with a dump door that is designed primarily for cleanout purposes. However, the door can be used for pit dumping.

At the end of each season or extended use, the cleanout door should be removed and the auger chamber cleaned of all debris and accumulated grain to prevent rust and mold.

Pit Dumping

If the wagon is being used strictly for pit dumping, it is recommended that the vertical auger drive chain be removed.

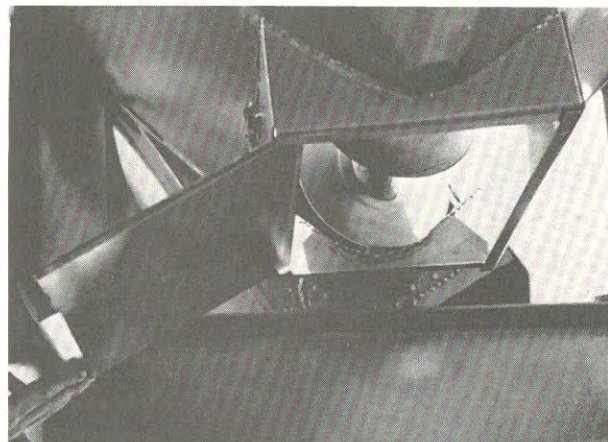
On 640, 840 and 1240 models, with the PTO disengaged, remove the cleanout door completely. Engage PTO and regulate grain flow using grain flow control gate.

On 440 models, with the PTO disengaged, open the cleanout door to control the flow of grain until the flow stops. Then remove the door completely and slowly engage PTO. Grain flow must be regulated by the speed of the PTO.

CAUTION: If vertical auger drive chain is not removed do not allow grain to build up around the sprocket and chain assembly. Grain buildup between the sprocket and chain will damage the gearbox.



640/840/1240 Models



440 Model

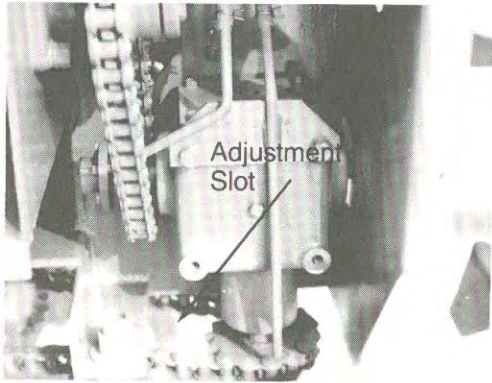
MAINTENANCE

AUGER DRIVE CHAINS ADJUSTMENT

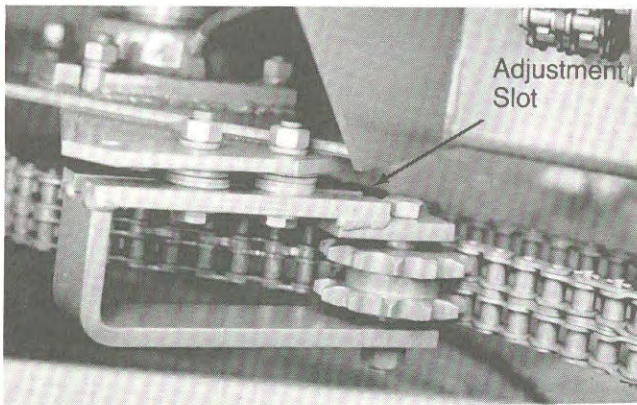
To prevent excessive wear on the auger drive chains and sprockets, the chains must be maintained and properly tensioned.

440/840(Applicable Models)/1240 Models

Adjust the slot mounted idler bracket on the vertical auger drive chain to establish a deflection of 1/4" to 1/2" on the span of chain opposite the idler.



440 Model

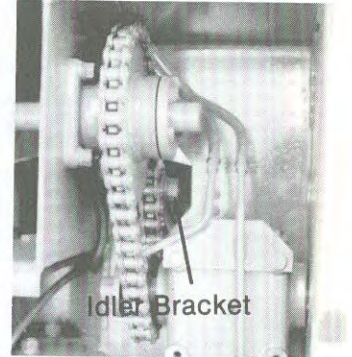


840/1240 Models

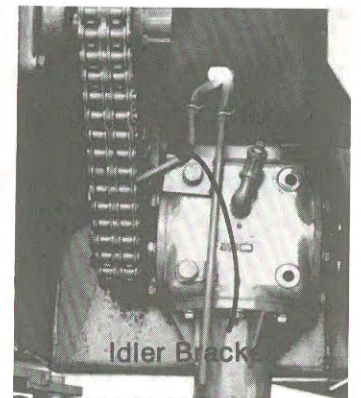
Adjust the slot mounted idler bracket on the horizontal auger drive chain to establish a deflection of 1/8" to 1/4" on the longest span of chain. (Opposite the idler)



440 Model



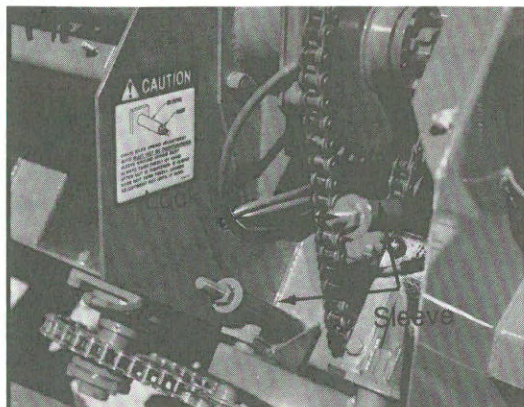
840/1240 Models



MAINTENANCE

640/840(Applicable Models) Models

Adjust horizontal chain tension and vertical chain tension as follows:



1. Tighten 5/8" lock nut until spring housing sleeve bottoms out.
2. Back off lock nut until spring housing sleeve can be rotated freely by hand.

MAINTENANCE

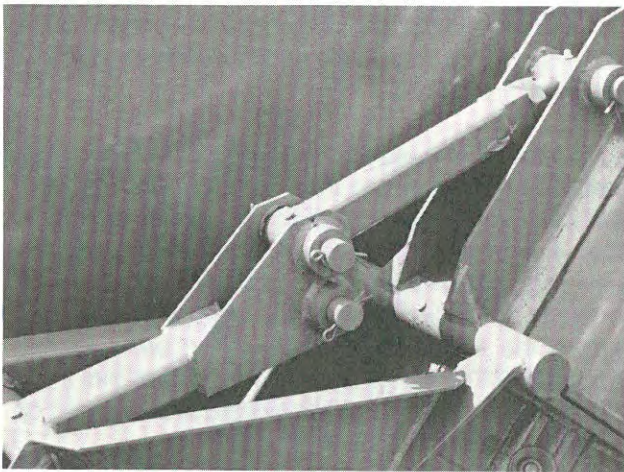
VERTICAL AUGER FOLD 640/840/1240 Models

The vertical auger fold is preset at the factory and should require no additional adjustment. However, if the auger housing or cylinder is replaced, adjustment may be necessary.

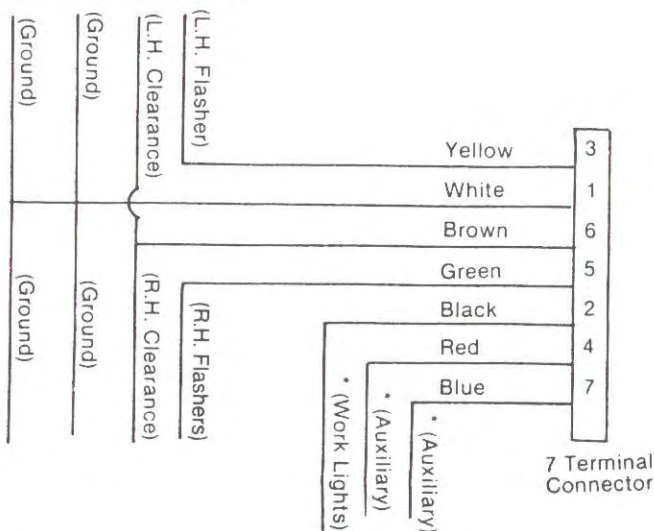
When properly adjusted, the folding linkage should "snap" over-center at the end of the extended stroke of the cylinder. This over-center action holds the unloading auger in position without the need for hydraulic pressure from the cylinder.

To adjust the folding linkage, loosen jam nut, remove pin from one end of linkage arm and rotate the arm in or out as needed.

If the linkage arm is adjusted, the auger housing stop bracket (located on the grain tank and used when the auger is folded for transport) will need to be adjusted.



WIRING DIAGRAM



*Optional lights (to be supplied by customer) may be wired into existing auxiliary and work light wires in harness.

WHEEL NUTS

The wheels are attached to the hubs with press fit bolts through the hub flanges and wheel nuts. Upon any removal and installation of the wheel, clean threads with a wire brush and oil lightly to retard corrosion. Tighten wheel nuts to 425 foot pounds torque and check nuts periodically to ensure tightness.

TIRE PRESSURE

Tire pressure should be checked regularly and prior to each use of the wagon and maintained as follows:

	Minimum/Maximum
23.1 x 26; 8 Ply	35 PSI/40PSI
24.5 x 32; 12 Ply/16 Ply	35 PSI/40 PSI
30.5 x 32; 12 Ply	35 PSI/40 PSI
*8.25 x 20; Sof-Trak Wagon	**55 PSI

*Multipiece rim used.

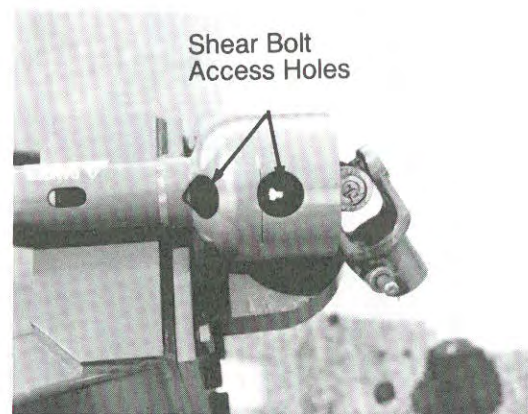
See "Tire Servicing Safety Warnings".

**All tire pressures must be equal.

SHEAR BOLT PROTECTION

To ensure drive line and gearbox protection, all KINZE Auger Wagons are equipped with a shear bolt yoke in the tractor half of the PTO shaft.

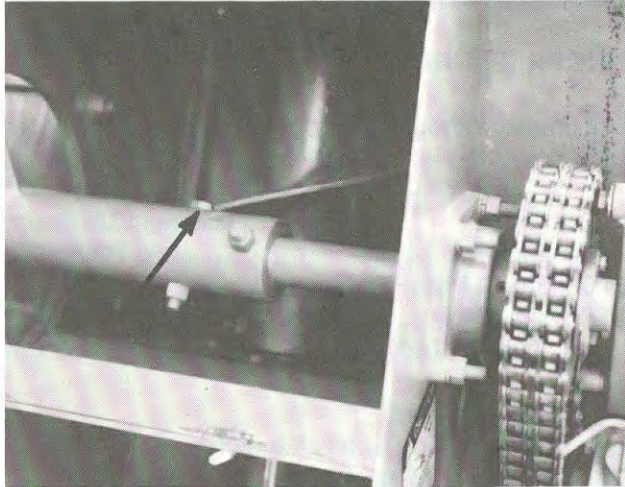
Should the auger become obstructed, the yoke is designed to shear the connecting bolt before further damage can occur. Access holes in the PTO shield permit replacement of the shear bolt without removal of the guard. Always use an identical 5/16"-18 x 1 1/2" Grade 5 bolt for replacement.



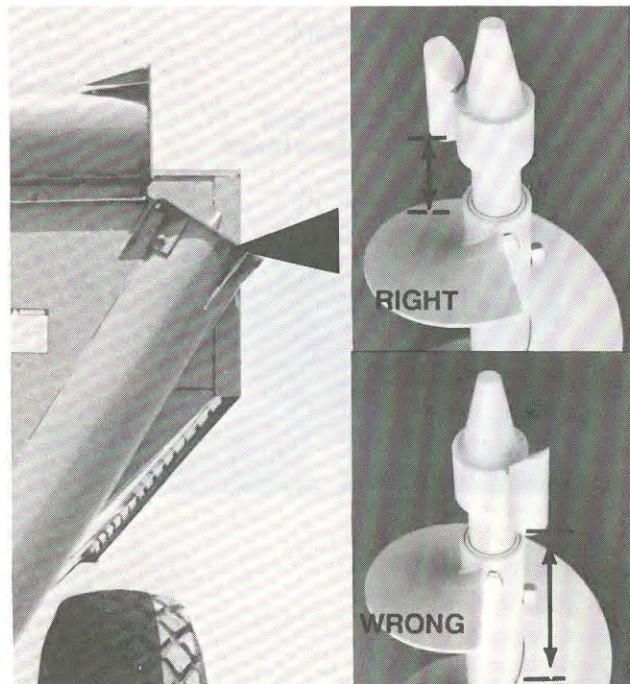
MAINTENANCE

AUGER TIMING

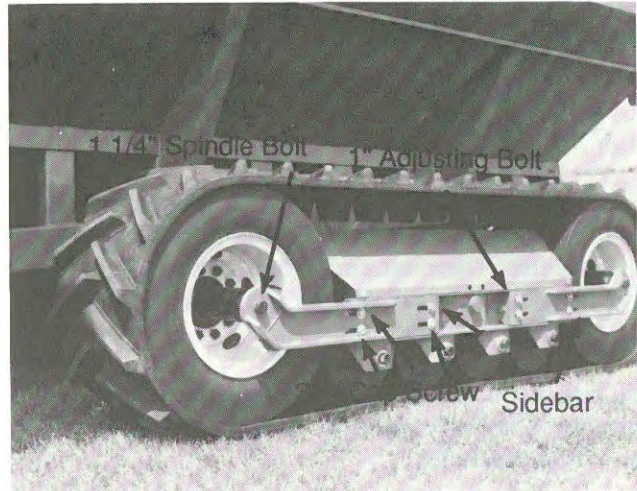
Any time chains have been removed, check by rotating horizontal and vertical augers by hand to be sure the bolts on the front of the horizontal auger do not strike lower vertical auger flighting.



If vertical augers or bullet assembly have been removed for any reason, special care must be taken to reinstall bullet assembly in the proper position. It is possible to install the bullet assembly in two positions 180° apart. One position will put the auger assembly out of time and restrict the flow of grain between the top and bottom auger. The proper location is noted in the picture. This location places the drive pin where it is closest to the flighting on the auger when measuring down the drive pin to the flighting on the auger.



TRACK TENSION (Sof-Trak Wagons)



Track tension is factory set and should need no further adjustment for initial operation. To check for proper tension, lay a straight edge across the complete length of the track. There should be approximately 1/4" to 3/8" of sag in the track at the midpoint between the front and back tires.

If adjustment is needed, loosen the four 3/4" attachment cap screws on the inside sidebar and the four 3/4" attachment cap screws on the outside sidebar on one end (front or rear) of the wagon. Turn the 1" adjusting bolt on the end of each sidebar in or out equal amounts according to the adjustment needed. Retighten the four 3/4" cap screws on each sidebar. Torque to 220 ft. lbs. For additional adjustment it may be necessary to repeat the above procedure on the opposite end of the wagon.

TRACK ALIGNMENT (Sof-Trak Wagons)

Proper track alignment is important to insure maximum life of the tires and tracks. This adjustment has been factory set and should not need adjustment except after repair to the undercarriage.

Equal tire pressure is important to insure proper track alignment. See "Tire Pressure".

When properly aligned, the track center lugs should run centered between the dual tires as the lugs enter the tires when the tracks are rotated. Misalignment will cause heat build up and scuffing of the tires.

This adjustment is made by loosening the four 3/4" cap screws on each sidebar and extending or retracting the 1" adjusting bolt on the end of each sidebar until proper alignment is obtained. Retighten the four 3/4" cap screws on each sidebar. Torque to 220 ft. lbs.

MAINTENANCE

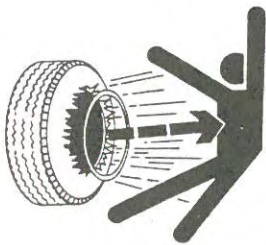
TIRE REPAIR (Sof-Trak Wagons)

To remove a tire for repair, position a jack at the axle and raise the side of the wagon. Remove mud scraper.

Mark the position of both the inside and outside sidebars nearest the tire being removed. Loosen the four 3/4" cap screws and 1 1/4" spindle bolt on each sidebar. Loosen the 1" adjusting bolt on each sidebar. Remove the sidebar on the side next to the tire being repaired. Remove wheel nuts and remove tire.

After the tire has been reinstalled and the wheel nuts torqued to proper specs, reinstall the sidebar. Extend sidebars to the previously marked positions and tighten all hardware. Torque 3/4" cap screws to 220 ft. lbs. and 1 1/4" spindle bolt to 1360 ft. lbs. Replace mud scraper. Check track alignment and tension and scraper clearance. Adjust if necessary.

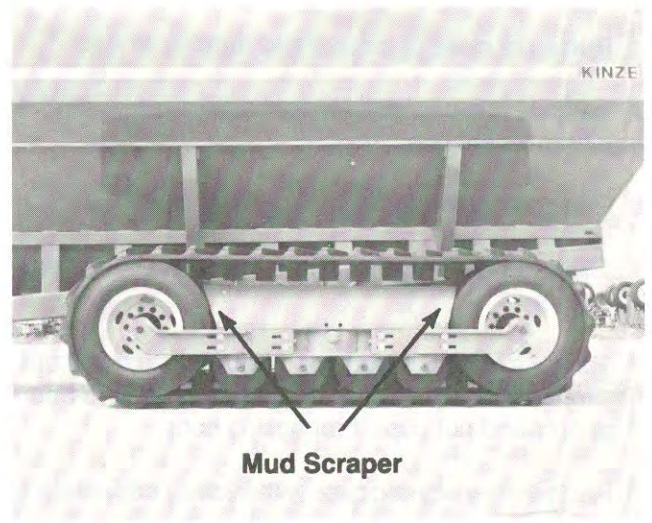
! Rim and tire servicing can be dangerous. Explosive separation of a tire and rim parts can cause serious injury or death.



The multipiece rim used on the Sof-Trak Wagon requires that specific procedures and safety instruction be followed in mounting and demounting of the tires. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. This should

only be done by persons properly trained and equipped to do the job. Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. When inflating tires, use a clip-on air chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage to enclose the tire and rim assembly when inflating. Inspect tires and wheels daily. Do not operate with low pressure, cuts, bubbles, damaged rims or missing wheel bolts and nuts.

MUD SCRAPER ADJUSTMENT (Sof-Trak Wagons)



Slotted attachment holes on the scrapers allow for scraper adjustment. Each scraper should be adjusted to maintain 1/8" clearance between the scraper and tires.

AXLE ADJUSTMENT (Sof-Trak Wagons)



All Sof-Trak wagons are shipped with the axle width set at 105" (track center to track center). Adjustment holes in the center axle allow for the axle width to be adjusted to 120" by removing two 1" x 8" cap screws on the center axle and sliding both axle stubs out approximately 7 1/2". Reinstall the 1" x 8" cap screws in the outer set of holes and torque to 480 ft. lbs.

MAINTENANCE

WHEEL BEARING PACKING OR REPLACEMENT (440/640/840/1240 Wagon)

1. Raise tire clear of ground and remove wheel.
2. Remove hub cap attachment hardware and remove cap from wheel hub.
3. Remove cotter pin, axle nut and 2" washer.
4. Slide hub from axle spindle, using a hub puller if necessary.
5. Remove bearings and cups from hub and discard. Thoroughly clean and dry wheel hub. Remove bearings only and not cups if repacking hubs.
6. Press in new bearing cups with thickest edges facing in. (Bearing replacement procedure only.)
7. Pack bearing with heavy-duty wheel bearing grease, thoroughly forcing grease between roller cone and bearing cage. Also fill the space between the bearing cups in the hub with grease.
8. Place inner bearing in hub and press in new grease seal with lip pointing towards bearing.
9. Clean axle spindle and install hub.
10. Install outer bearing, 2" washer and slotted hex nut. Tighten slotted hex nut while rotating the hub until there is some drag. This assures that all bearing surfaces are in contact. Back off slotted nut to nearest locking slot and install cotter pin. Check for endplay in bearings.
11. Fill hub cap half full of wheel bearing grease and install on hub with attachment bolts.
12. Install wheel and remove jack. Torque wheel nuts to 425 ft. lbs.

WHEEL BEARING REPLACEMENT (Sof-Trak Wagon)

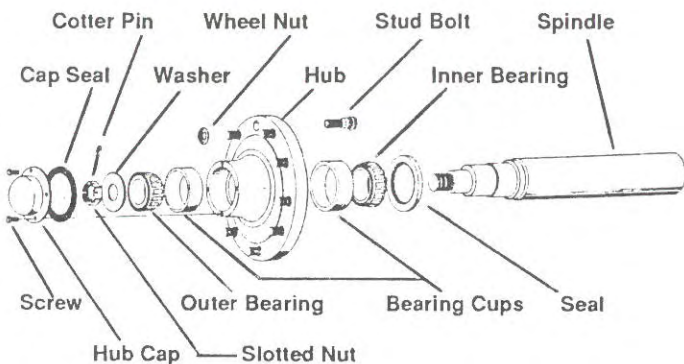
NOTE: Each midwheel and endwheel assembly is equipped with a grease fitting for lubrication. The below procedure is used only for bearing replacement.

1. Endwheel Procedure:
 - A. Position jack under axle and raise side of wagon.
 - B. Remove mud scraper nearest wheel being serviced.
 - C. Mark position of inner and outer sidebars nearest the wheel being serviced.
 - D. Loosen the four 3/4" cap screws and 1 1/4" spindle bolt on each sidebar.
 - E. Loosen the 1" adjusting bolt on the inner end of each sidebar.
 - F. Remove inner and outer sidebars.

Midwheel Procedure:

- A. Position jack under axle and raise side of wagon.
 - B. Remove front and rear mud scrapers.
 - C. Mark position of all the sidebars.
 - D. Relieve track tension by loosening the four 3/4" cap screws on each of the four sidebars and the 1" adjusting bolt on the inner end of each sidebar.
 - E. Remove inner and outer spindle bolts and lower midwheel assembly for service accessibility.
2. Remove double nuts and slide spindle from hub.
 3. Remove bearings, seals and cups and discard. Clean and dry hub.
 4. Press in new bearing cups with thickest edge facing in.
 5. Pack bearings with heavy duty wheel bearing grease thoroughly forcing grease between roller cone and bearing cage. Also fill the space between the bearing cups in the hub with grease.

6. Place inner bearing in place and install seal.
7. Clean spindle and install in hub.
8. Install outer bearing, seal and stepped nut. Tighten stepped nut until there is some drag when the spindle is rotated. This assures that all bearing surfaces are in contact. Back off stepped nut 1/4 turn or until there is only slight drag when rotating the hub. Install jam nut to lock against stepped nut.



MAINTENANCE

9. Endwheel Procedure:

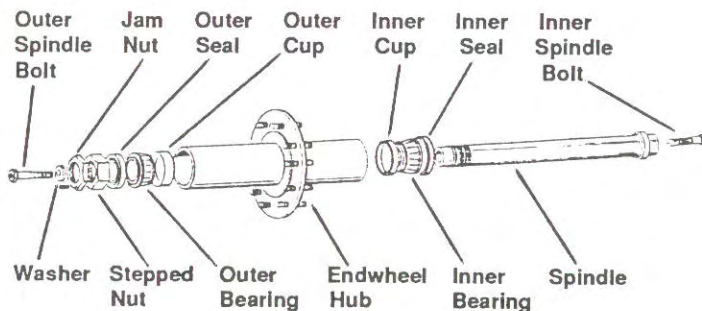
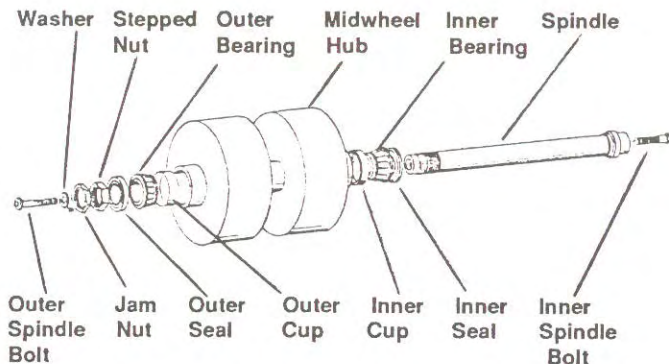
- A. Install sidebars and extend to previously marked positions and tighten all hardware. Torque 3/4" cap screws to 220 ft. lbs. and 1 1/4" spindle bolts to 1360 ft. lbs.
- B. Replace mud scraper.
- C. Check track alignment and tension and scraper clearance.

Midwheel Procedure:

- A. Raise midwheel assembly into position under the track carriage.
- B. Install inner and outer spindle bolts. Torque to 1360 ft. lbs.
- C. Extend sidebars to previously marked positions and tighten all hardware. Torque 3/4" cap screws to 220 ft. lbs.
- D. Replace mud scrapers.
- E. Check track alignment and tension and mud scraper clearance.

PREPARATION FOR STORAGE

- Always store the auger wagon in a dry sheltered area if possible.
- Remove all trash that may be wrapped on sprockets or shafts and remove dirt that can draw moisture.
- Remove dump door and clean out all accumulated grain and debris from auger chamber.
- Wash wagon inside and out.
- Clean all drive chains and coat with a rust preventative spray or remove chains and submerge in oil.
- Lubricate auger wagon at all lubrication points.
- If possible, remove weight from all tires, particularly if the unit is being stored outdoors.
- Repaint any areas where paint has been removed. This is particularly important in the inside of the grain tank. Rust in this area will shorten the lift of the wagon as well as prevent grain from smoothly sliding to the bottom of the tank.
- Inspect the wagon for parts that are in need of replacement and order during the "off" season.
- Coat exposed surface of all cylinder piston rods with grease or rust preventative spray.

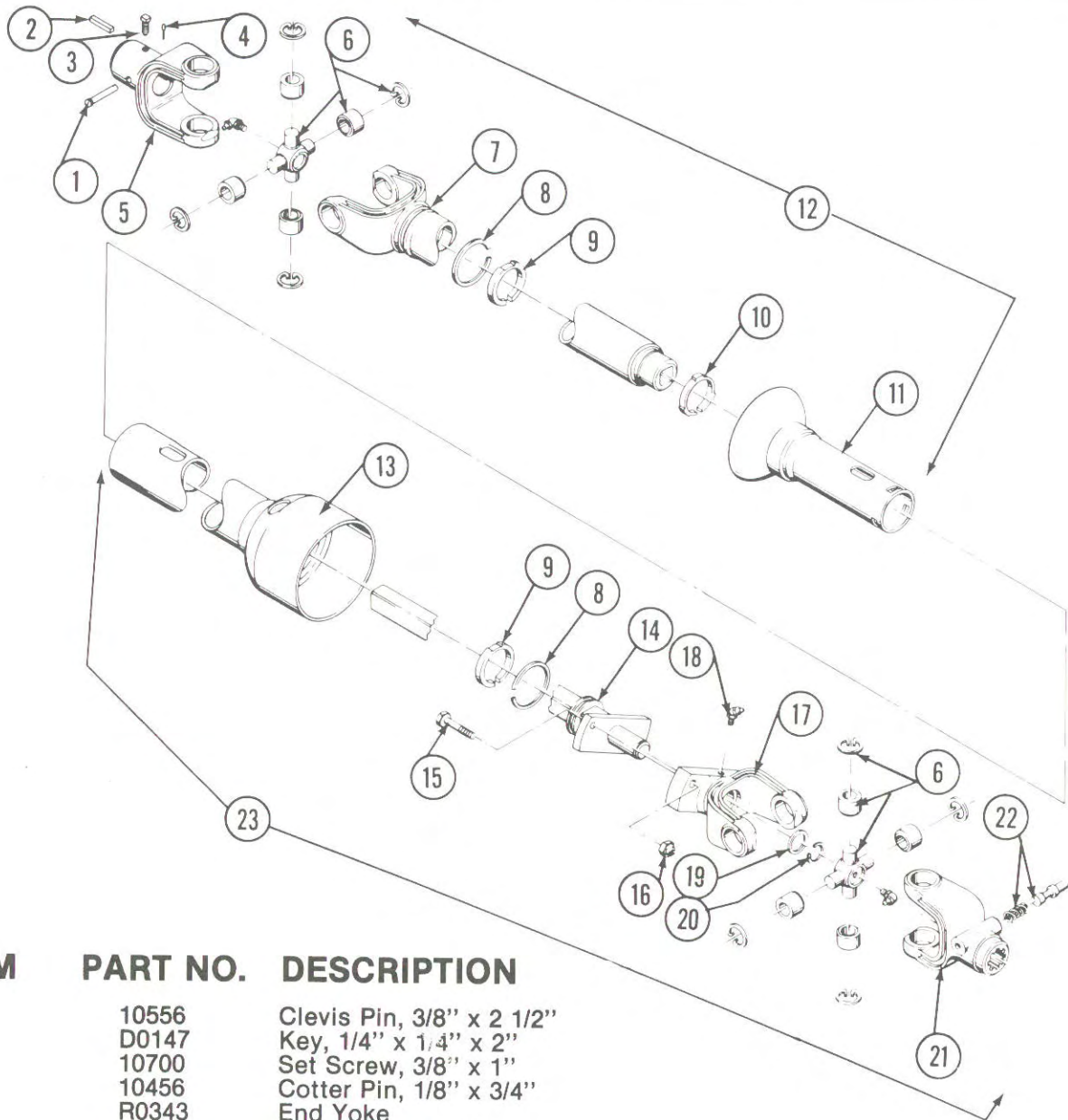


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PTO ASSEMBLY- 1 3/8"-21 SPLINED YOKE

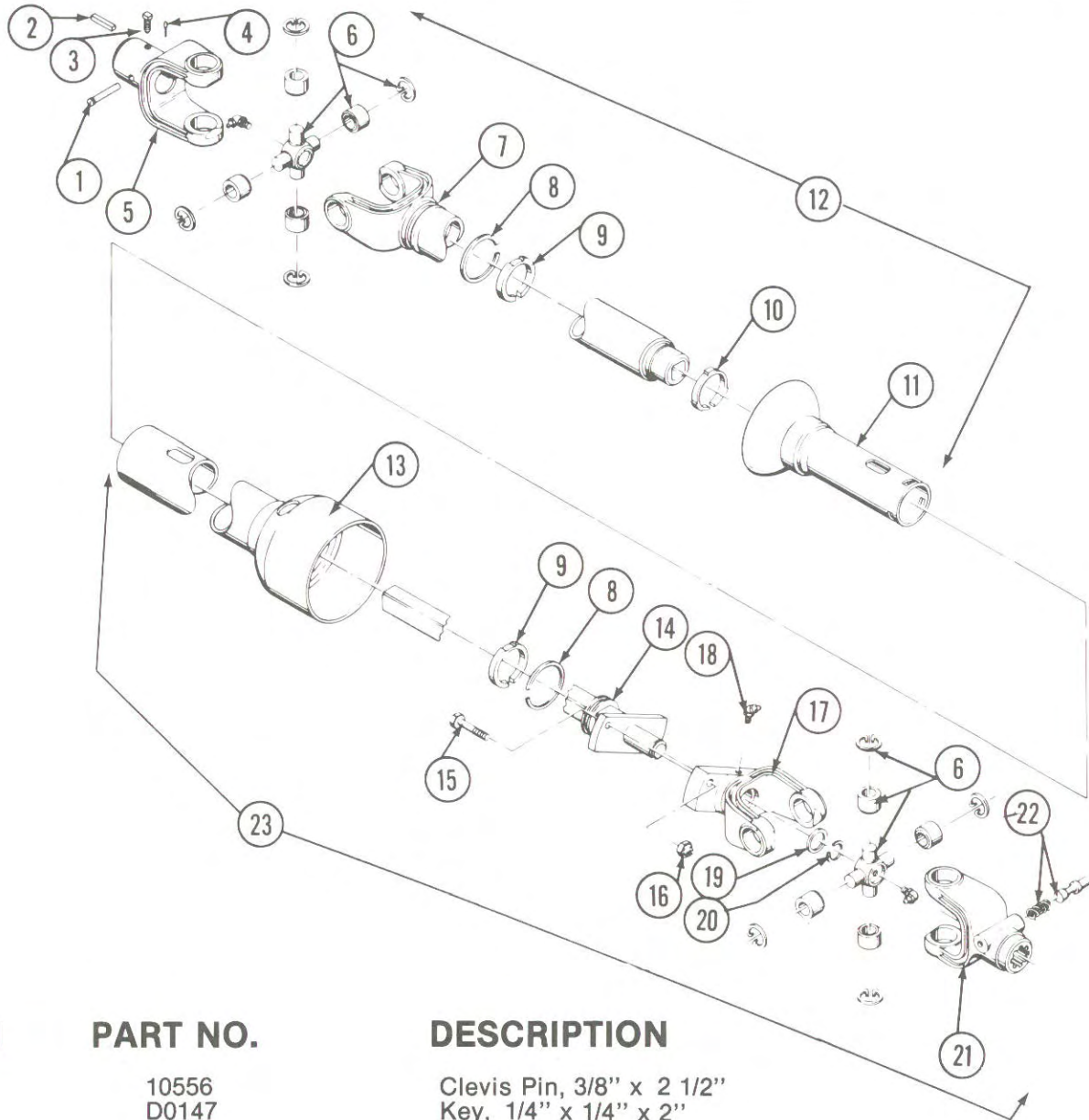
440/640



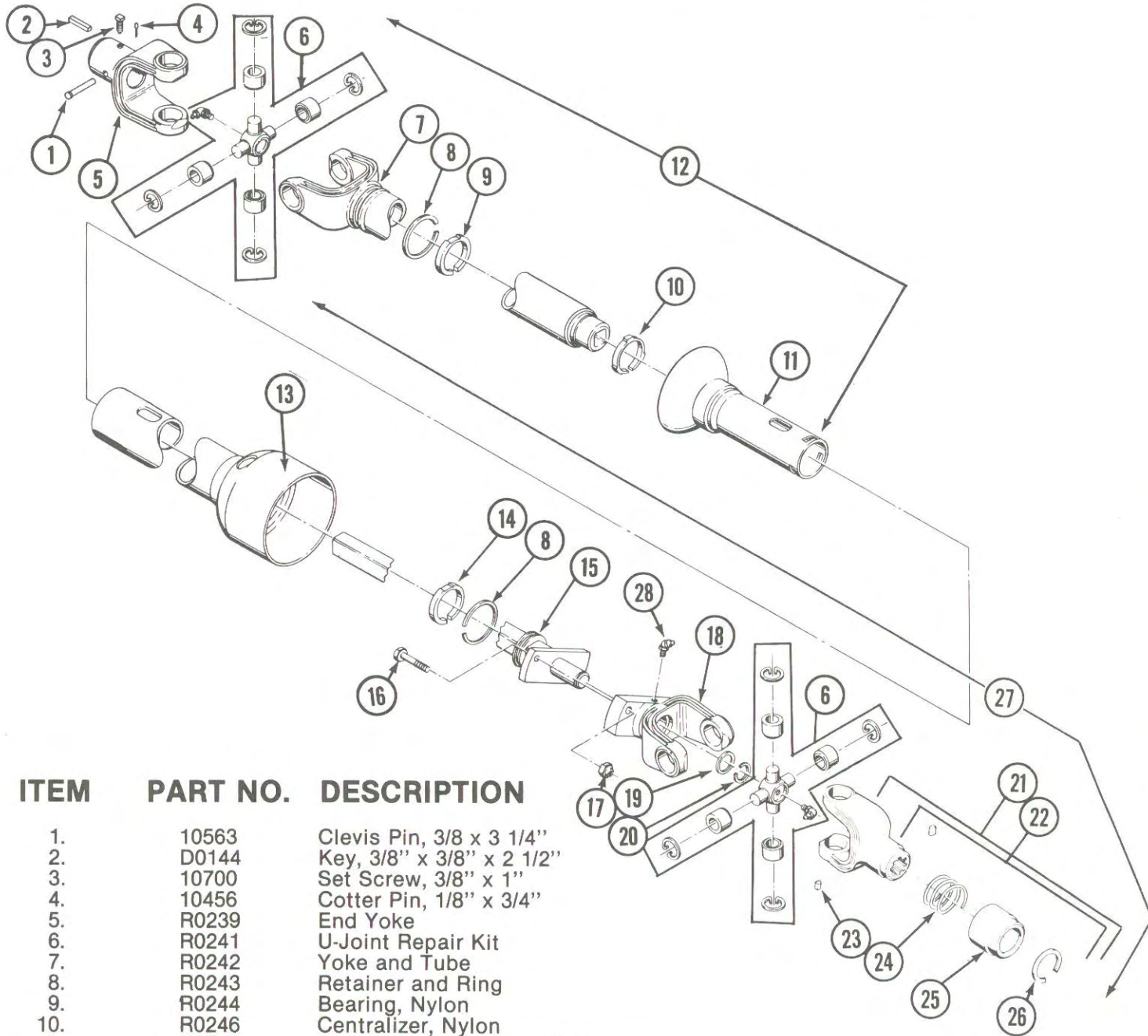
ITEM	PART NO.	DESCRIPTION
1.	10556	Clevis Pin, 3/8" x 2 1/2"
2.	D0147	Key, 1/4" x 1/4" x 2"
3.	10700	Set Screw, 3/8" x 1"
4.	10456	Cotter Pin, 1/8" x 3/4"
5.	R0343	End Yoke
6.	R0344	U-Joint Repair Kit
7.	R0345	Yoke and Tube
8.	R0243	Retainer Ring
9.	R0247	Bearing, Nylon
10.	R0246	Centralizer, Nylon
11.	R0347	Guard, Inner - Machine Half
12.	R0342	PTO Half - Machine
13.	R0349	Guard, Outer - Tractor Half
14.	R0350	Shaft, With Shear Flange
15.	10133	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
16.	10109	Lock Nut, 5/16"- 18
17.	R0351	Shear Yoke, With Lube Kit
18.	R0352	Instamatic Lube Kit
19.	10134	Washer, 1 1/8" I.D. x 1 5/8" O.D.
20.	R0252	Retainer Ring
21.	R0353	Lock Yoke Assembly
22.	R0354	"Saf-T-Pin" and Spring Kit
23.	R0348	PTO Half-Tractor
A.	A0488	PTO Assembly Complete, 1000 RPM

PTO ASSEMBLY - HEAVY DUTY 1 3/4"-20 SPLINED YOKE

440/640

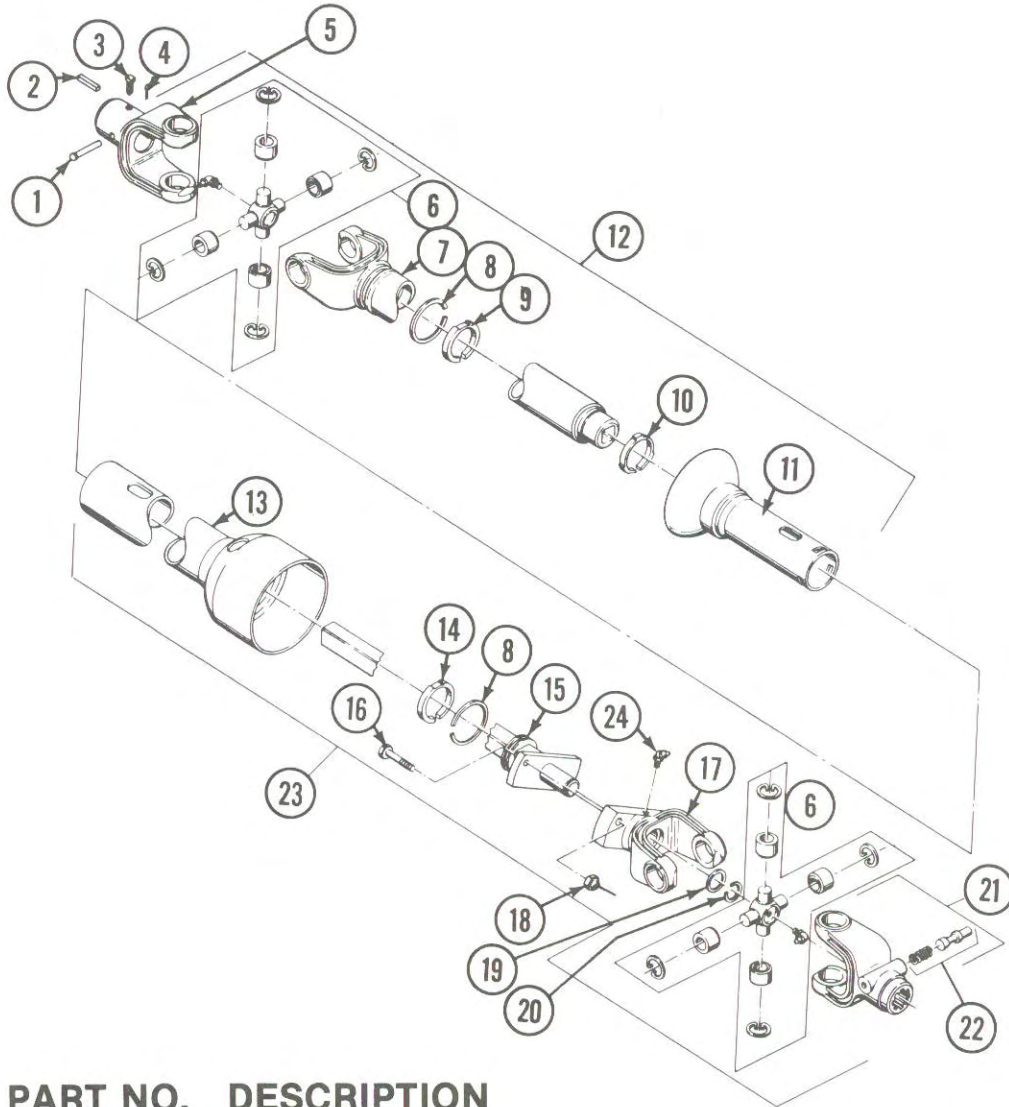


ITEM	PART NO.	DESCRIPTION
1.	10556	Clevis Pin, 3/8" x 2 1/2"
2.	D0147	Key, 1/4" x 1/4" x 2"
3.	10700	Set Screw, 3/8" x 1"
4.	10456	Cotter Pin, 1/8" x 3/4"
5.	R0343	End Yoke
6.	R0344	U-Joint Repair Kit
7.	R0345	Yoke and Tube
8.	R0243	Retainer Ring
9.	R0247	Bearing, Nylon
10.	R0246	Centralizer, Nylon
11.	R0347	Guard, Inner - Machine Half
12.	R0342	PTO Half - Machine
13.	R0349	Guard, Outer - Tractor Half
14.	R0350	Shaft, With Shear Flange
15.	10133	Rex Head Cap Screw, 5/16"-18 x 1 1/2"
16.	10109	Lock Nut, 5/16"- 18
17.	R0351	Shear Yoke, With Lube Kit
18.	R0352	Instamatic Lube Kit
19.	10134	Washer, 1 1/8" I.D. x 1 5/8" O.D.
20.	R0252	Retainer Ring
21.	R0356	Lock Yoke Assembly
22.	R0900	"Saf-T-Pin" and Spring Kit
23.	R0355	PTO Half-Tractor
A.	A0512	PTO Assembly Complete, 1000 RPM

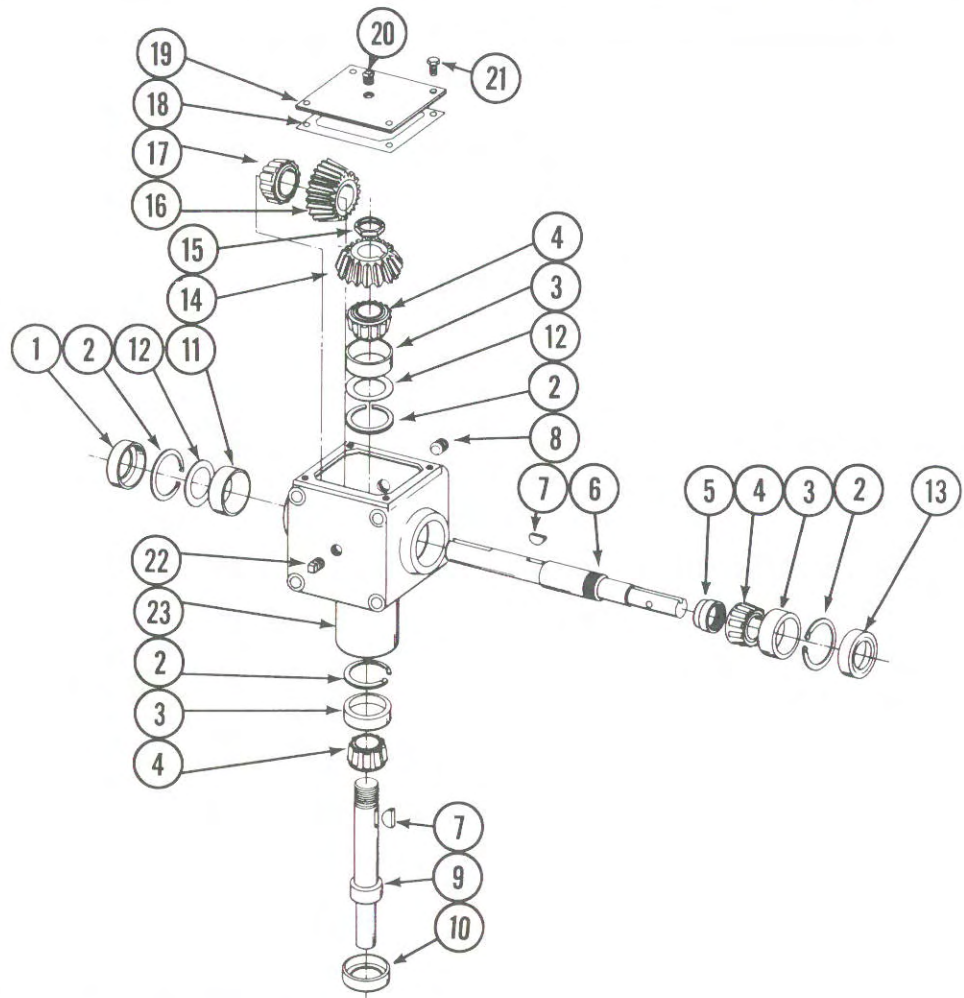


ITEM	PART NO.	DESCRIPTION
1.	10563	Clevis Pin, 3/8 x 3 1/4"
2.	D0144	Key, 3/8" x 3/8" x 2 1/2"
3.	10700	Set Screw, 3/8" x 1"
4.	10456	Cotter Pin, 1/8" x 3/4"
5.	R0239	End Yoke
6.	R0241	U-Joint Repair Kit
7.	R0242	Yoke and Tube
8.	R0243	Retainer and Ring
9.	R0244	Bearing, Nylon
10.	R0246	Centralizer, Nylon
11.	R0238	Guard, Inner-Machine Half
12.	R0240	PTO Half - Machine
13.	R0237	Guard, Outer - Tractor Half
14.	R0247	Bearing, Nylon
15.	R0248	Shaft, With Shear Flange
16.	10133	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
17.	10109	Lock Nut, 5/16"
18.	R0249	Shear Yoke, With Lube Kit
19.	10134	Washer, 1 1/8" I.D. x 1 5/8" O.D.
20.	R0252	Retaining Ring
21.	R0253	Lock Yoke Assembly
22.	R0254	Safety Slide Lock Repair Kit
23.	R0285	Pawl
24.	R0286	Spring
25.	R0287	Collar
26.	R0288	Retaining Ring
27.	R0245	PTO Half - Tractor
28.	R0251	Instamatic Lube Kit
A.	A0506	PTO Assembly Complete, 1000 RPM

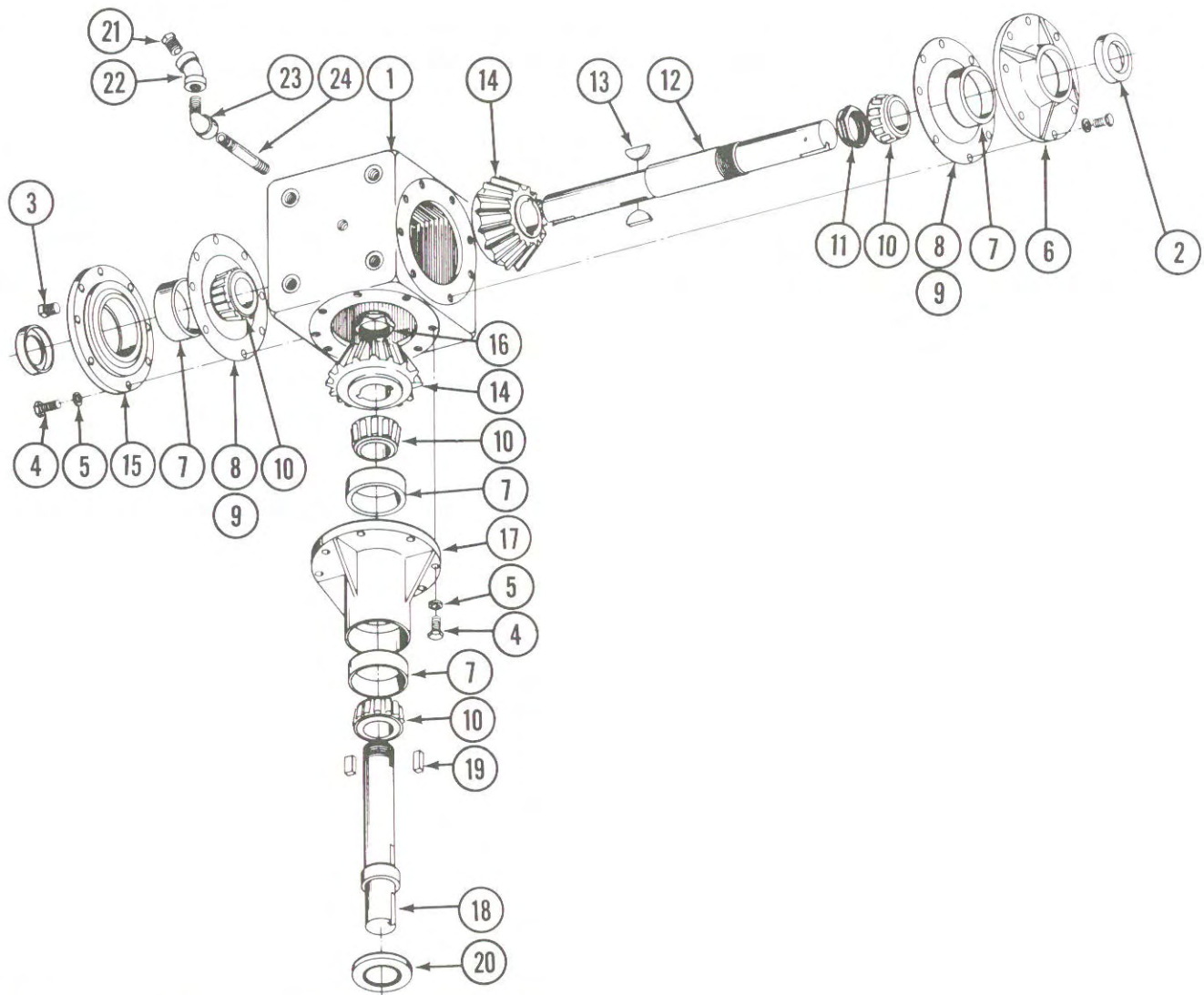
PTO ASSEMBLY - HEAVY DUTY 1 3/4"-20 SPLINED YOKE



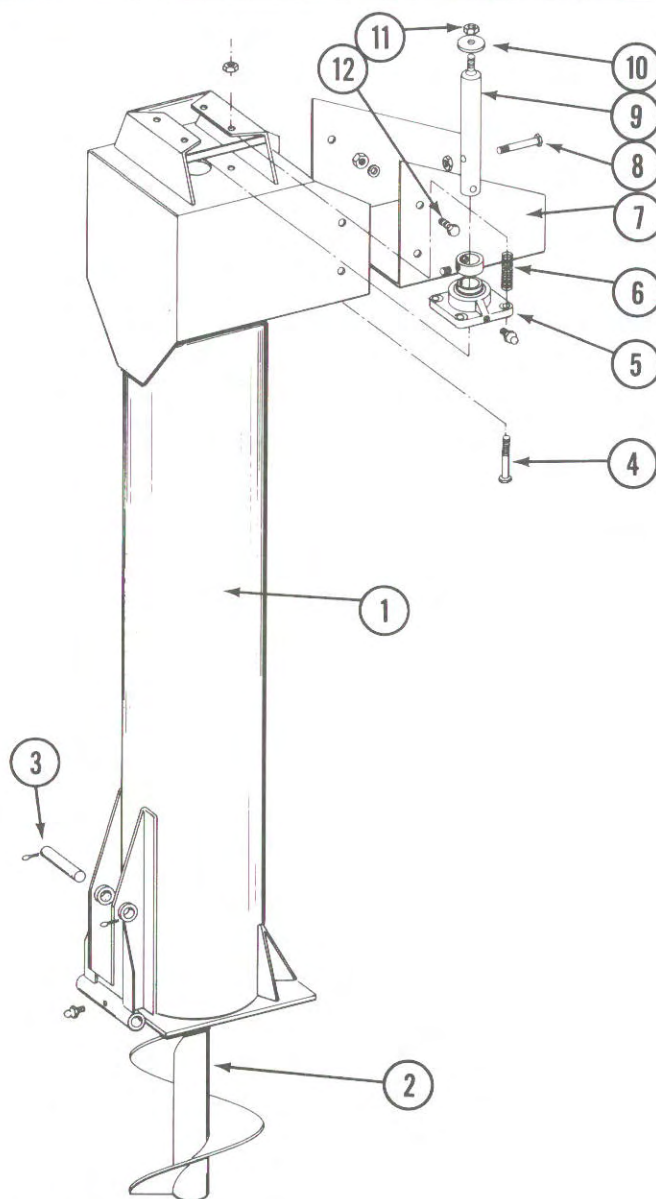
ITEM	PART NO.	DESCRIPTION
1.	10563	Clevis Pin, 3/8" x 3 1/4"
2.	D0144	Key, 3/8" x 3/8" x 2 1/2"
3.	10700	Set Screw, 3/8"x 1"
4.	10456	Cotter Pin, 1/8" x 3/4"
5.	R0239	End Yoke
6.	R0241	U-Joint Repair Kit
7.	R0242	Yoke and Tube
8.	R0243	Retainer Ring
9.	R0244	Bearing, Nylon
10.	R0246	Centralizer, Nylon
11.	R0238	Guard, Inner - Machine Half
12.	R0240	PTO Half - Machine
13.	R0237	Guard, Outer, Tractor Half
14.	R0247	Bushing, Nylon
15.	R0248	Shaft, With Shear Flange
16.	10133	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
17.	R0249	Shear Yoke With Lube Kit
18.	10109	Lock Nut, 5/16"-18
19.	10134	Washer, 1 1/8" I.D. x 1 5/8" O.D.
20.	R0252	Retaining Ring
21.	R0289	Lock Yoke Assembly
22.	R0290	"Saf-T-Pin" and Spring Kit
23.	R0250	PTO Half-Tractor
24.	R0251	Instamatic Lube Kit
A.	A0510	PTO Assembly Complete, 1000 RPM



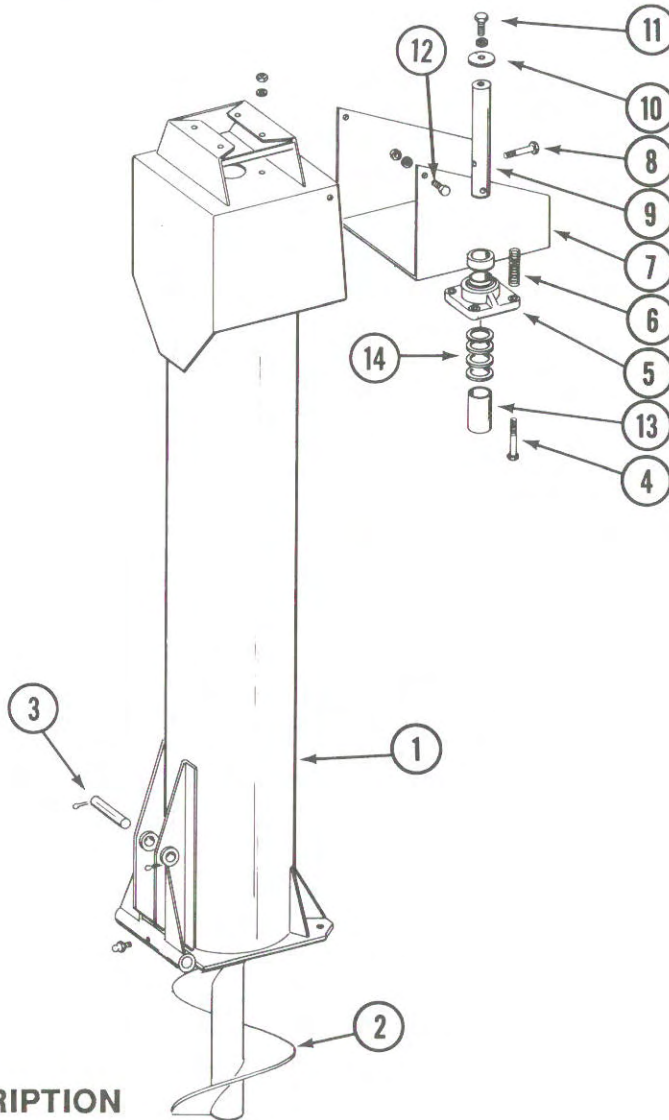
ITEM	PART	DESCRIPTION
1.	R0339	Seal
2.	10143	Snap Ring
3.	R0190	Cup
4.	A0714	Bearing
5.	R0330	Stake Nut, 1 5/8"-18
6.	R0333	Shaft
7.	R0334	Woodruff Key
8.	10142	Plug, Drain, 3/8"-18 NPT
9.	R0332	Shaft
10.	R0302	Seal
11.	R0340	Cup
12.	R0338	Shim
13.	R0335	Seal
14.	R0329	Bevel Gear, Forged
15.	R0331	Stake Nut, 1 3/8" - 18
16.	R0341	Bevel Gear, Forged
17.	A0715	Bearing
18.	R0336	Gasket
19.	R0328	Cover, Gearbox
20.	R0306	Plug, Vent, 3/8"-18 NPT
21.	10018	Hex Head Cap Screw, 5/16"-18 x 5/8"
22.	10121	Plug, Level, 3/8"-18 NPT
23.	R0327	Gearbox Housing
A.	A0406	Gearbox Complete (Items 1-23)



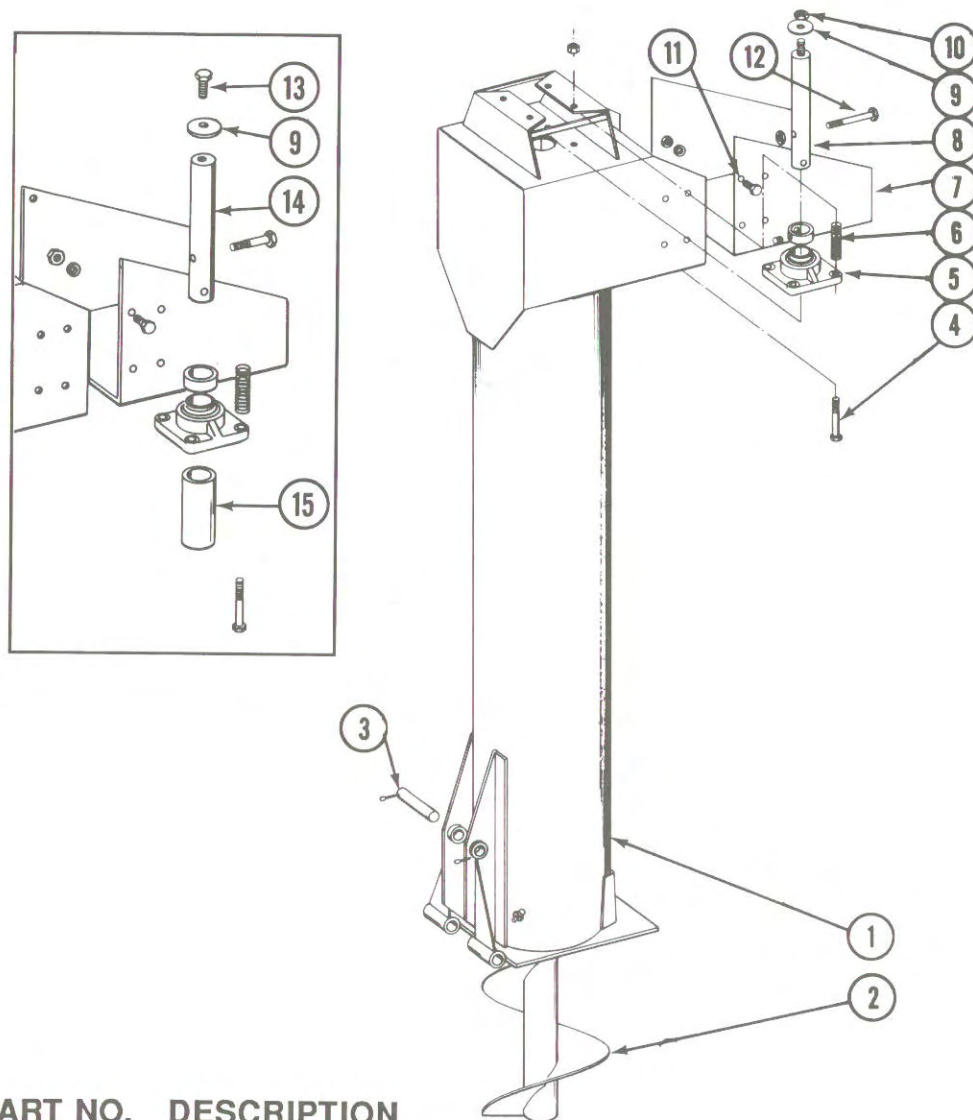
ITEM	PART NO.	DESCRIPTION
1.	R0291	Housing
2.	R0302	Seal
3.	10135	Plug, Level, 1/4"-18NPT
4.	10037	Hex Head Cap Screw, 1/2"-13 x 1 1/4"
5.	10228	Lock Washer, 1/2"
6.	R0292	Cover
7.	R0296	Cup
8.	R0304	Shim
9.	R0305	Gasket
10.	A0699	Bearing
11.	R0298	Stake Nut, 2"-18
12.	R0300	Shaft
13.	R0297	Woodruff Key, "G"
14.	R0295	Bevel Gear
15.	R0293	Cover
16.	R0299	Stake Nut, 1 3/4" - 18
17.	R0294	Hub
18.	R0301	Shaft
19.	R0307	Key, 3/8"x 3/8"x 1 3/8"
20.	R0303	Seal
21.	R0306	Plug, Vent, 3/8" - 18 NPT
22.	10122	Elbow, Pipe, 45°
23.	10123	Elbow, Street, 3/8", 90°
24.	10124	Pipe Nipple, 3/8"
A.	A0624	Gearbox Complete (Items 1-21)



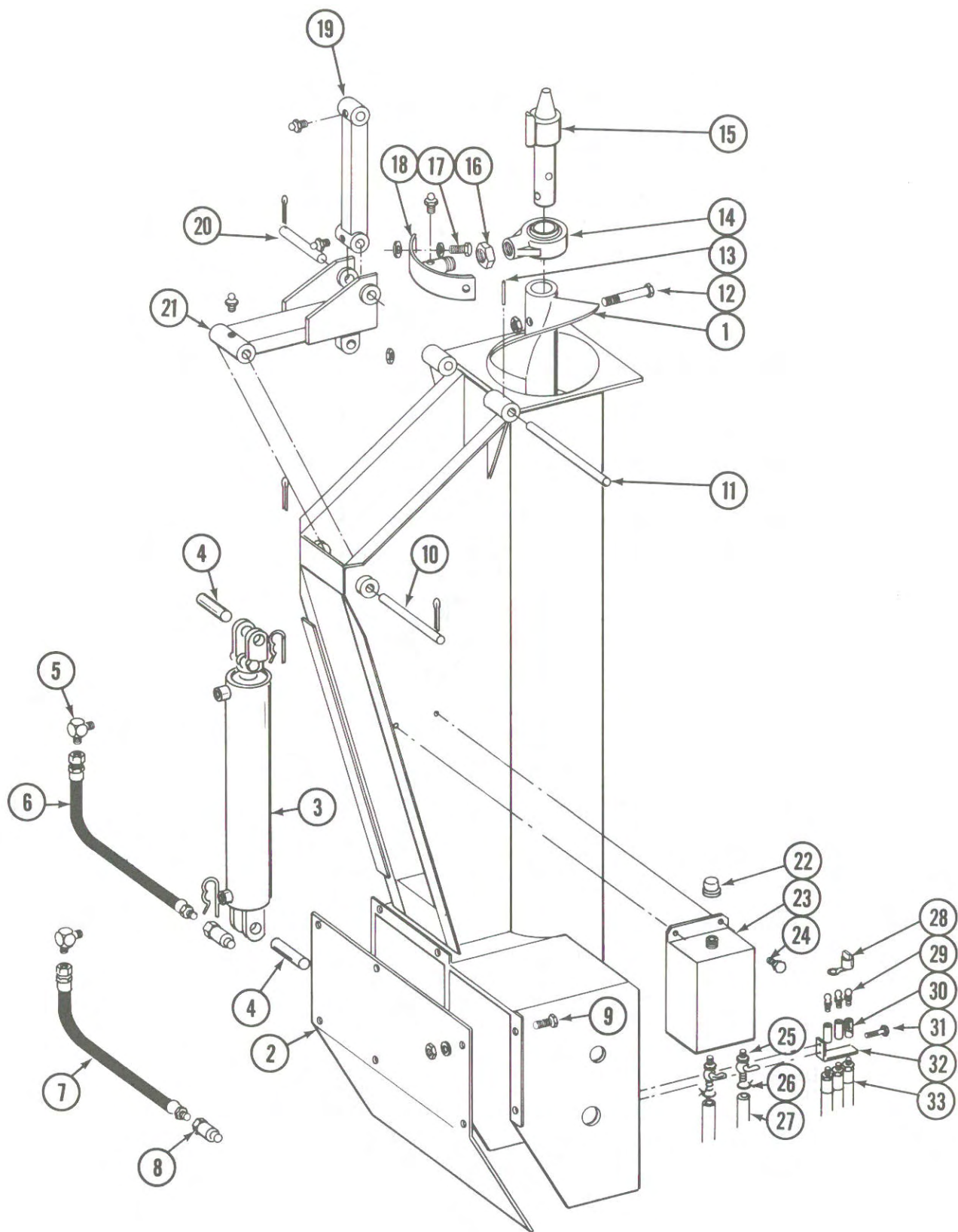
ITEM	PART NO.	DESCRIPTION
1.	A1603	Upper Auger Housing W/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
2.	A1566	Vertical Auger, Right Hand, 12" x 72"
3.	D4108	Pin, 1 1/4" x 7"
	10460	Cotter Pin, 1/4" x 2"
4.	10068	Hex Head Cap Screw, 5/8"-11 x 6"
	10107	Lock Nut, 5/8"-11
5.	A0449	Bearing W/ Lock Collar and Grease Fitting, 2"
	10641	Grease Fitting, 1/8" NPT
	R0265	Lock Collar, W/ Set Screw
	10080	Set Screw, 7/16"-14 x 7/16"
6.	D4072	Spring
7.	D1373	Spout Extension
8.	10013	Hex Head Cap Screw, 5/8"-11 x 3 1/2"
	10107	Lock Nut, 5/8"-11
9.	A1612	Shaft, 2" x 26"
10.	D2456	Washer
11.	10112	Lock Nut, 3/4"-10
12.	10002	Hex Head Cap Screw, 3/8"-16 x 3/4"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16



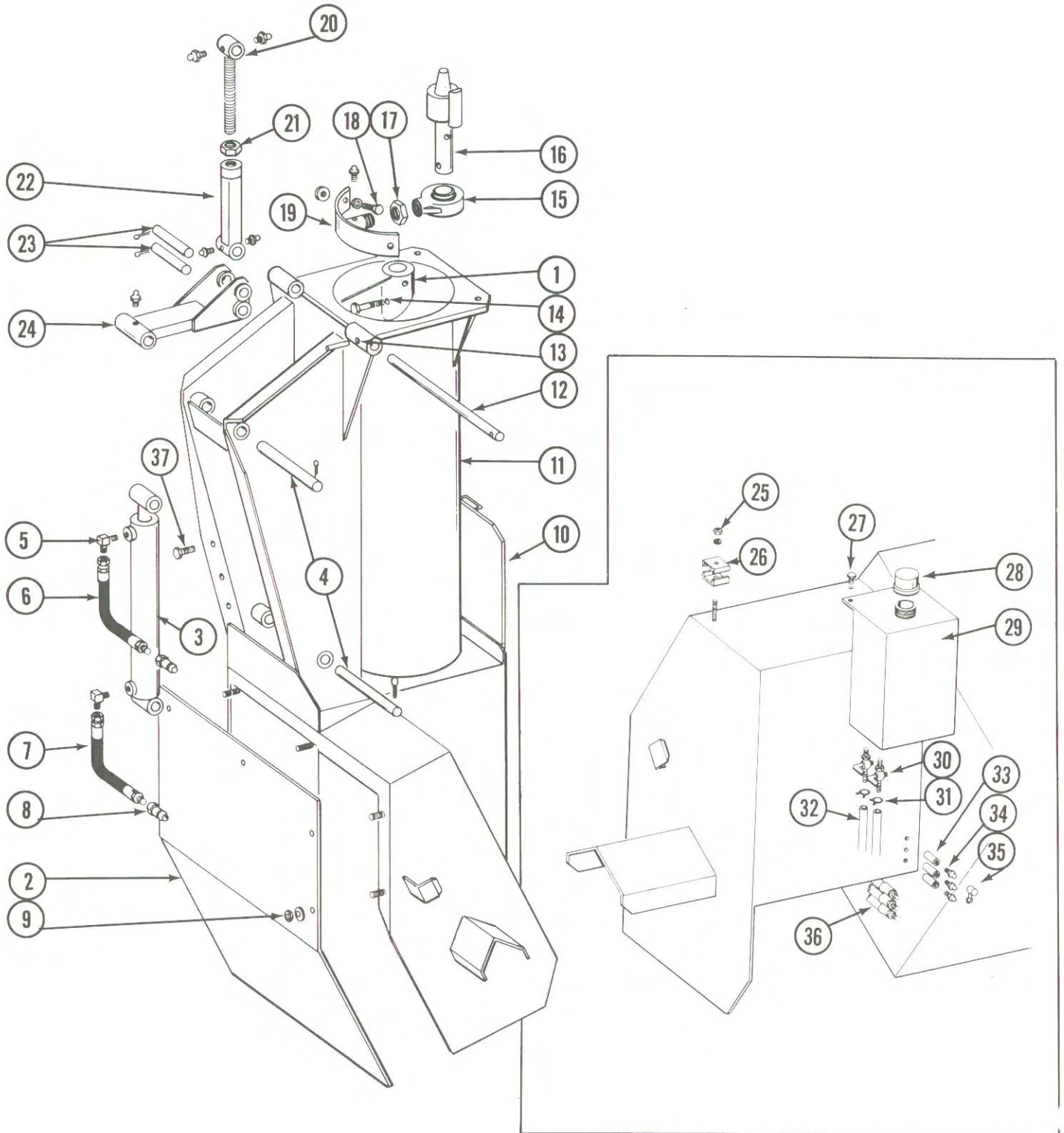
ITEM	PART NO.	DESCRIPTION
1.	R0966	Upper Auger Housing w/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
2.	A4534	Vertical Auger, Right Hand, 14" x 96"
3.	D2161	Pin, 1 1/4" x 8 1/4"
	10460	Cotter Pin, 1/4" x 2"
4.	D6462	Special Bolt, 5/8"-11 x 7"
	10107	Lock Nut, 5/8"-11
5.	A0449	Bearing w/Lock Collar and Grease Fitting, 2"
	10641	Grease Fitting, 1/8" NPT
	R0265	Lock Collar w/Set Screw
	10080	Set Screw, 7/16"-14 x 7/16"
6.	D6433	Spring
7.	D6420	Spout Extension
8.	10013	Hex Head Cap Screw, 5/8"-11 x 3 1/2"
	10107	Lock Nut, 5/8"-11
9.	D6388	Shaft, 2" x 14 3/4"
10.	D2456	Washer
11.	10025	Hex Head Cap Screw, 3/4"-10 x 1 1/2"
12.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10108	Lock Nut, 3/8"-16
13.	D3457-06	Sleeve, 7 1/4"
14.	10234	Machinery Bushing, 10 Gauge (As Required)



ITEM	PART NO.	DESCRIPTION
1.	A0596	Upper Auger Housing W/Grease Fittings
	10641	Grease Fitting, 1/8" NPT
2.	A4538	Auger, 16" x 8', Right Hand
3.	D0653	Pin, 1 1/4" x 7 3/4"
	10460	Cotter Pin, 1/4" x 2"
4.	D6462	Special Bolt, 5/8"-11 x 7"
	10107	Lock Nut, 5/8"-11
5.	A0448	Bearing W/Lock Collar and Grease Fittings, 2 7/16"
	10641	Grease Fitting, 1/8" NPT
	R0264	Lock Collar W/Set Screw
	10080	Set Screw, 7/16"-14 x 7/16"
6.	D6433	Spring
7.	D4056	Spout Extension
8.	A1613	Shaft, 2 7/16" x 13 1/2"
9.	D2456	Washer
10.	10112	Lock Nut, 3/4"-10
11.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
12.	10011	Hex Head Cap Screw, 5/8"-11 x 5 1/2"
	10107	Lock Nut, 5/8"-11
13.	10025	Hex Head Cap Screw, 3/4"-10 x 1 1/2"
14.	D7069	Shaft, 2 7/16" x 11 1/2"
15.	D7076	Sleeve, 3 5/8"



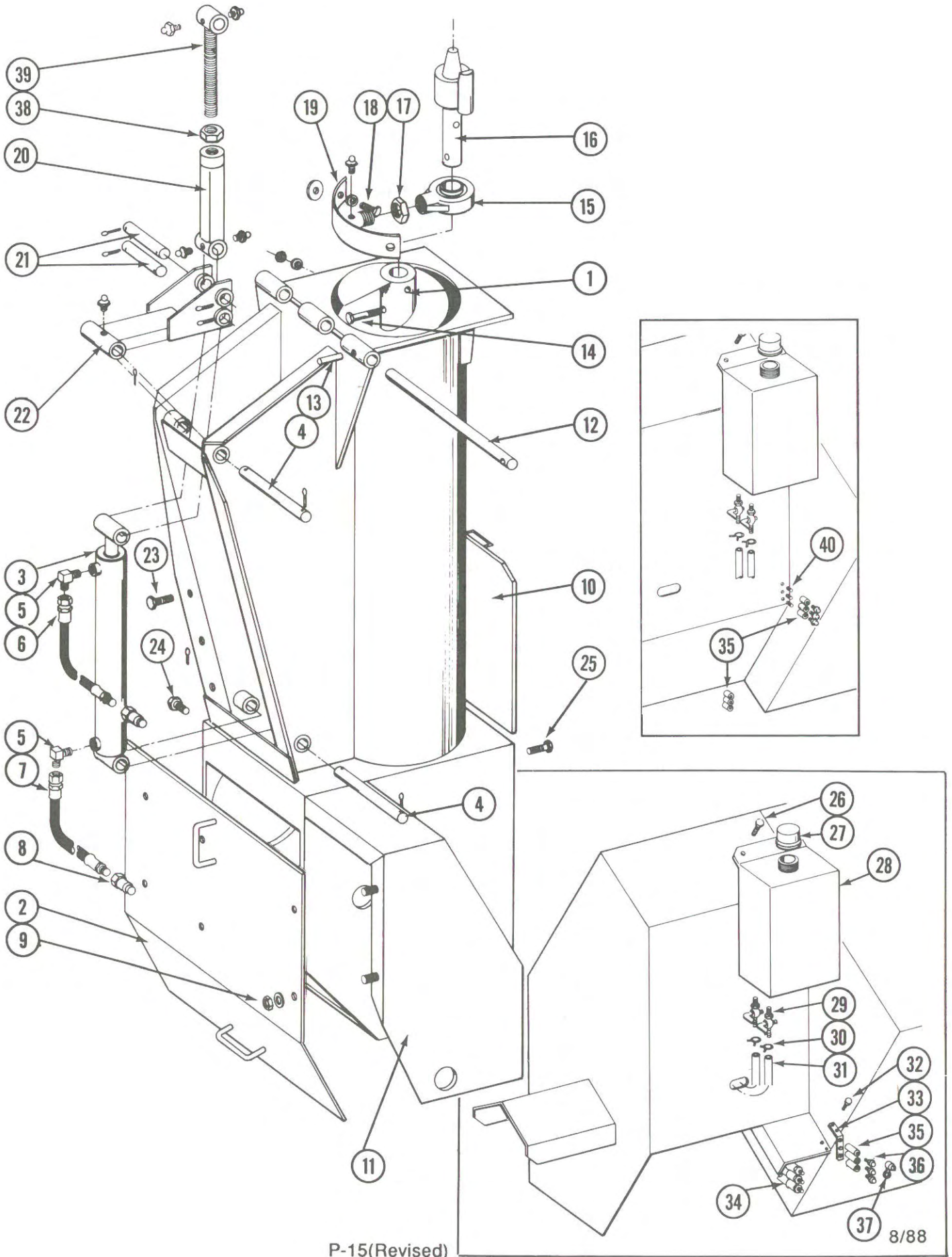
ITEM	PART NO.	DESCRIPTION
1.	A0411	Auger, 12"x6', Right Hand
2.	D2403	Cover
3.		Cylinder, See 440 Vertical Auger Fold Cylinder Page
4.	R0180	Pin w/Hair Pin Clip
	R0193	Hair Pin Clip
5.	6801-06-08	Elbow, 9/16"-18 JIC to 3/4" O-Ring
6.	A1112	Hose Assembly, 1/4"x 138"
7.	A1111	Hose Assembly, 1/4"x 120"
8.	D4086	Tip, Male Pioneer
9.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
10.	D4106	Pin, 1 1/4"x 11"
	10460	Cotter Pin, 1/4"x 2"
11.	D1383	Shaft, 1 1/4"x 14"
12.	10013	Hex Head Cap Screw, 5/8"-11 x 3 1/2"
	10107	Lock Nut, 5/8"-11
13.	10606	Roll Pin, 1/4"x 2"
14.	A1567	Bearing, 2"
15.	A1542	Bullet
16.	10115	Lock Nut, 1" NPT
17.	10008	Hex Head Cap Screw, 5/8"-11 x 2"
	10217	Washer, 5/8" USS
	10107	Lock Nut, 5/8"-11
18.	A1565	Bearing Hanger w/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
19.	A0467	Arm w/Grease Fittings
	10641	Grease Fitting 1/8" NPT
20.	D4108	Pin, 1 1/4"x 7"
	10460	Cotter Pin, 1/4"x 2"
21.	A0463	Auger Fold w/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
22.	A4112	Vented Cap, 1 1/2"
23.	A4125	Tank
24.	10019	Hex Head Cap Screw, 5/16"-18 x 1"
	10232	Lock Washer, 5/16"
	10219	Washer, 5/16"USS
	10106	Hex Nut, 5/16"-18
25.	A4110	Hose Cock, Brass
26.	10426	Hose Clamp
27.	D6279-02	Hose, Clear Plastic, 26"
	D6279-03	Hose, Clear Plastic, 28"
28.	10434	Cap Plug
29.	10641	Grease Fitting, 1/8" NPT
30.	10125	Pipe Coupling
31.	10019	Hex Head Cap Screw, 5/16"-18 x 1"
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16"-18
32.	D6293	Mount
33.	A0504	Grease Hose, 24"



ITEM	PART NO.	DESCRIPTION
1.	A5310	Auger, 14" x 6'1", Right Hand
2.	D6401	Cover
3.		Cylinder, See 640 Vertical Auger Fold Cylinder Page
4.	D4014	Pin, 1 1/4" x 12"
	10460	Cotter Pin, 1/4" x 2"
5.	6801-06-08	Elbow, 9/16" - 18 JIC to 3/4" - 16 O-Ring
6.	A1112	Hose Assembly, 1/4" x 138"
7.	A1111	Hose Assembly, 1/4" x 120"
8.	D4086	Tip, Male Pioneer
9.	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8" - 16
10.	A4168	Door
11.	R0967	Lower Auger Housing
12.	D6417	Shaft, 1 1/4" x 17"
13.	10610	Spring Pin, 3/8" x 2"
14.	10013	Hex Head Cap Screw, 5/8" - 11 x 3 1/2"
	10107	Lock Nut, 5/8" - 11
15.	A1567	Bearing, 2"
16.	A4163	Bullet
17.	10115	Lock Nut, 1" NPT
18.	10008	Hex Head Cap Screw, 5/8" - 11 x 2"
	10217	Washer, 5/8" USS
	10107	Lock Nut, 5/8" - 11
19.	R0965	Bearing Hanger w/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
20.	A4162	Fold Arm w/Grease Fittings
	10641	Grease Fitting, 1/8" NPT
21.	10087	Jam Nut, 1 1/2" - 12
22.	A4161	Fold Arm w/Grease Fittings
	10641	Grease Fitting, 1/8" NPT
23.	D4108	Pin, 1 1/4" x 7"
	10460	Cotter Pin, 1/4" x 2"
24.	A4174	Folding Link w/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
25.	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16" - 18
26.	D5892	Hose Clamp
27.	10019	Hex Head Cap Screw, 5/16" - 18 x 1"
	10232	Lock Washer, 5/16"
	10219	Washer, 5/16" USS
	10106	Hex Nut, 5/16" - 18
28.	A4112	Vented Cap, 1 1/2"
29.	A4189	Tank
30.	A4110	Hose Cock, Brass
31.	10426	Hose Clamp
32.	D6279-04	Hose, Clear Plastic, 17"
33.	10125	Pipe Coupling
34.	10641	Grease Fitting, 1/8" NPT
35.	10434	Cap Plug
36.	A0504	Grease Hose, 24"
37.	10025	Hex Head Cap Screw, 3/4" - 10 x 1 1/2"
	10026	Hex Head Cap Screw, 3/4" - 10 x 2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10

VERTICAL AUGER - LOWER SECTION

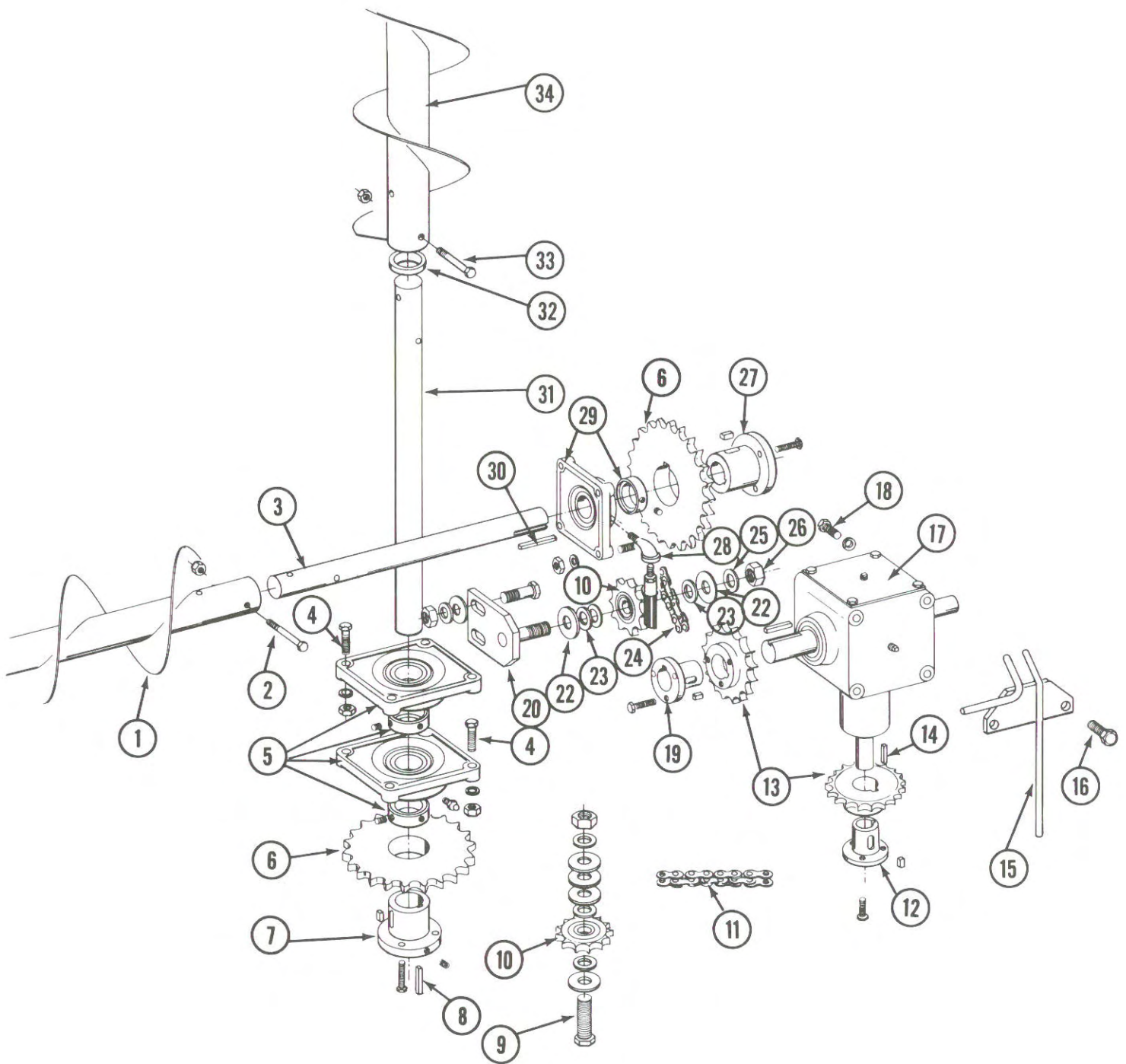
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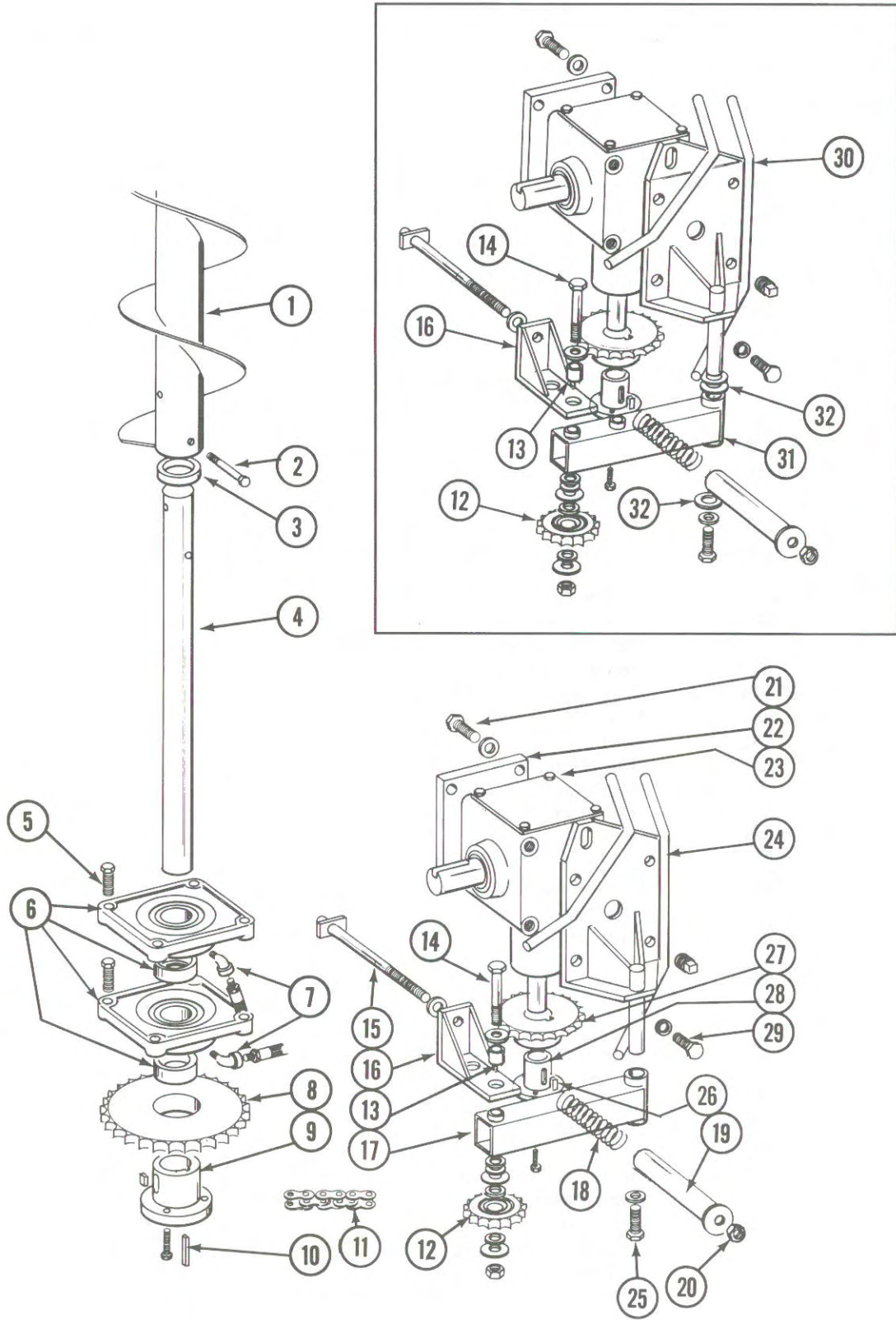
VERTICAL AUGER - LOWER SECTION

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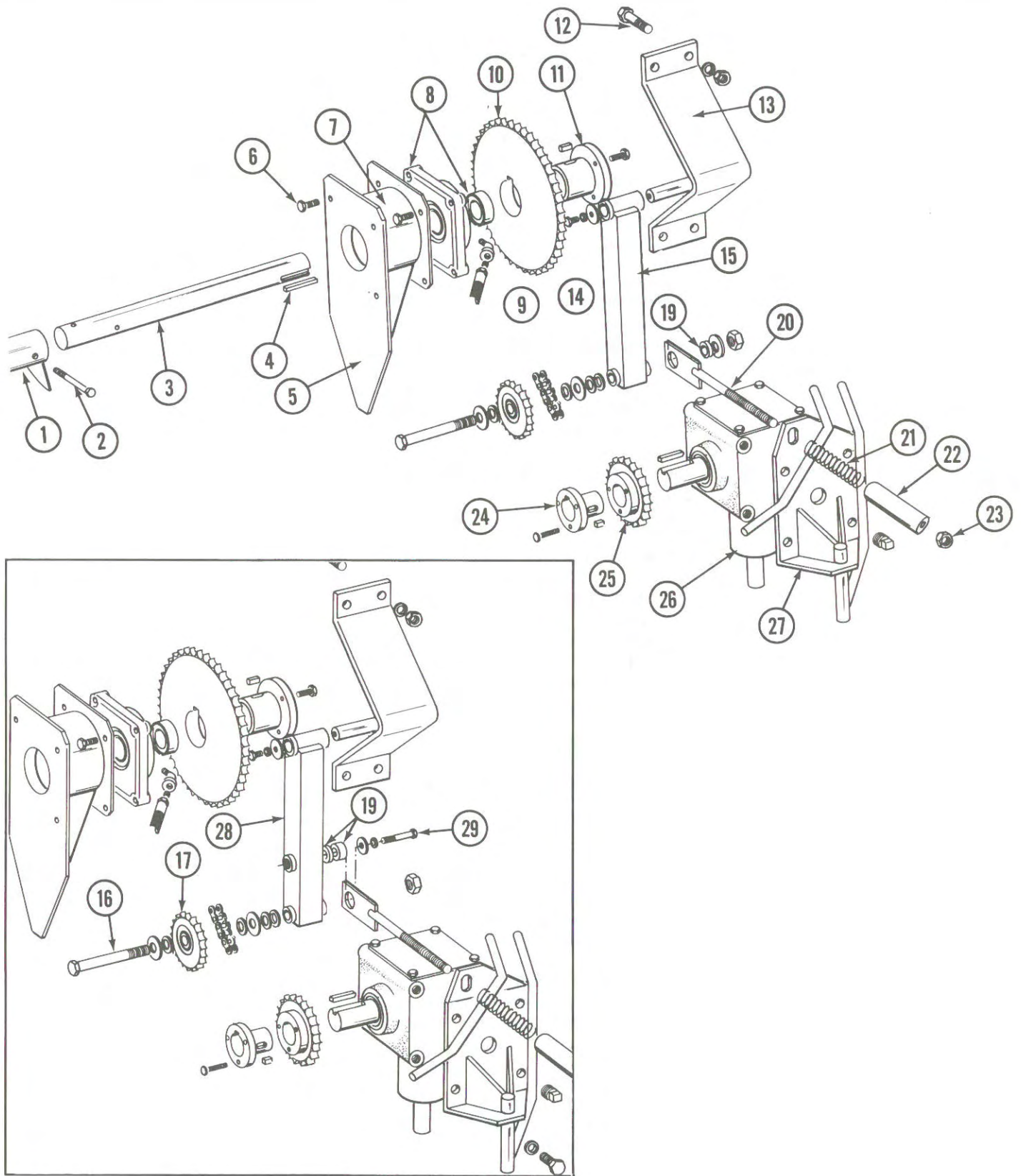
ITEM	PART NO.	DESCRIPTION
1.	A4539	Auger, 16" x 5'6", Right Hand
2.	A4234	Cover, 840
	D1555	Cover, 1240
3.		Cylinder, See 840/1240 Vertical Auger Fold Cylinder Page
4.	D4014	Pin, 1 1/4" x 12"
	10460	Cotter Pin, 1/4" x 2"
5.	2501-08-08	Elbow, 3/4"-16 JIC to 1/2" NPT
6.	A1015	Hose Assembly, 3/8" x 138"
7.	A1014	Hose Assembly, 3/8" x 120"
8.	D4086	Tip, Male Pioneer
9.	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
10.	A0422	Door
11.	A2515	Lower Auger Housing
12.	D4012	Shaft, 1 1/4" x 22 3/4"
13.	10610	Roll Pin, 3/8" x 2"
14.	10011	Hex Head Cap Screw, 5/8"-11 x 5 1/2"
	10107	Lock Nut, 5/8"-11
15.	A1582	Bearing W/Grease Fitting, 2 7/16"
	10641	Grease Fitting, 1/8" NPT
16.	A0423	Bullet
17.	10116	Lock Nut, 1 1/4" NPT
18.	10053	Hex Head Cap Screw, 1/2"-13 x 2 1/2"
	10216	Washer, 1/2" USS
	10218	Washer, 3/4" USS
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
19.	A0511	Mount W/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
20.	A4161	Linkage W/Grease Fittings
	10641	Grease Fitting, 1/8" NPT
21.	D0653	Pin, 1 1/4" x 7 3/4"
	10460	Cotter Pin, 1/4" x 2"
22.	A0425	Linkage W/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
23.	10007	Hex Head Cap Screw, 5/8"-11 x 1 1/2"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8"-11
24.	10025	Hex Head Cap Screw, 3/4"-10 x 1 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4"-10
25.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
26.	10019	Hex Head Cap Screw, 5/16"-18 x 1"
	10232	Lock Washer, 5/16"
	10219	Washer, 5/16" USS
	10106	Hex Nut, 5/16"-18
27.	A4112	Vented Cap, 1 1/2"
28.	A4108	Tank
29.	A4110	Hose Cock, Brass
30.	10426	Hose Clamp
31.	D6279-04	Hose, Clear Plastic, 17"
32.	10019	Hex Head Cap Screw, 5/16"-18 x 1"
	10232	Lock Washer, 5/16"
	10106	Hex Nut, 5/16"-18
33.	D6270	Mount
34.	A0504	Grease Hose, 24"
35.	10125	Pipe Coupling
36.	10641	Grease Fitting, 1/8" NPT
37.	10434	Cap Plug
38.	10087	Jam Nut, 1 1/2"-12
39.	A4162	Fold Arm W/Grease Fittings
	10641	Grease Fitting, 1/8" NPT
40.	10127	Closed Nipple, 1/8" NPT x 1 1/2"



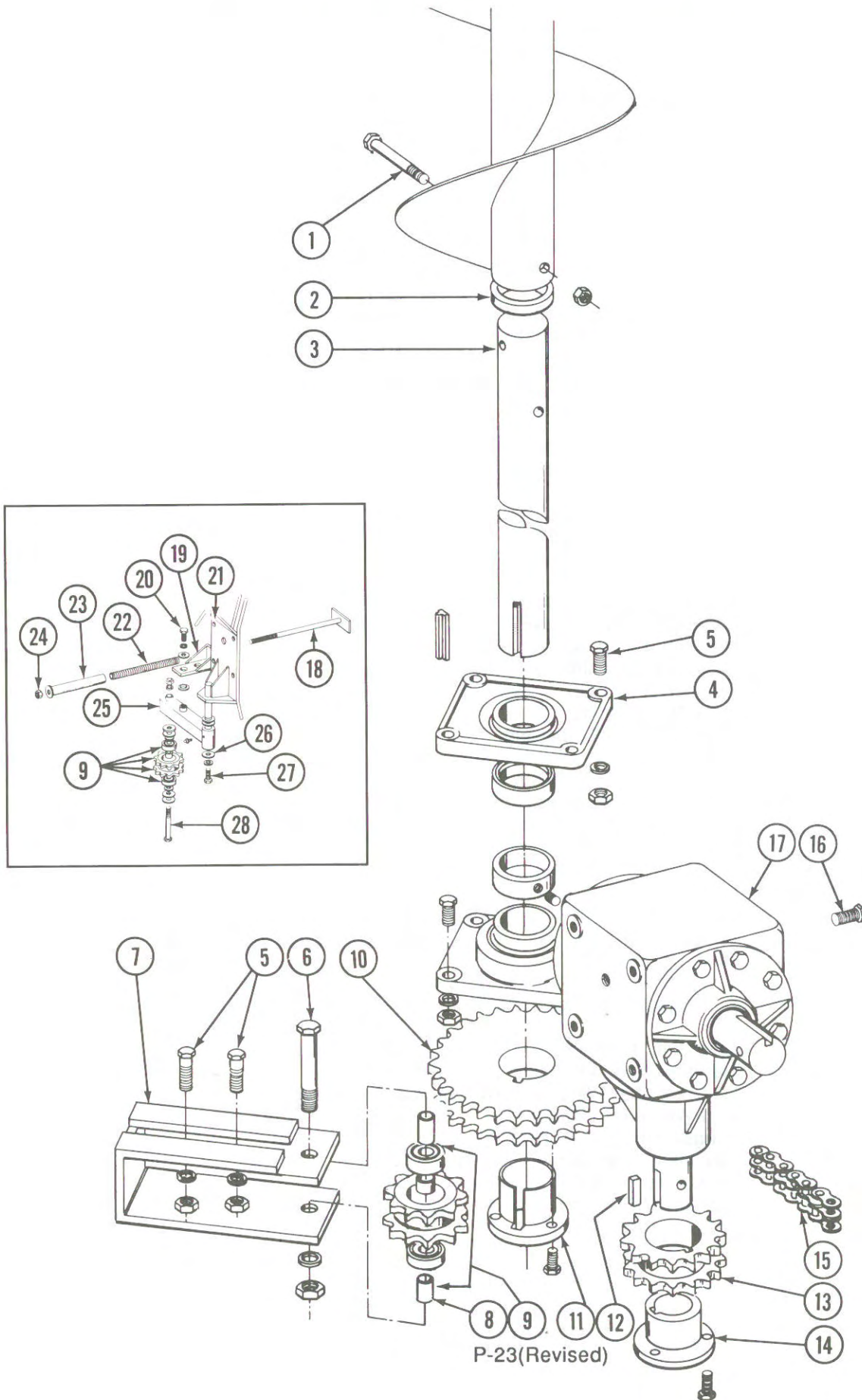
ITEM	PART NO.	DESCRIPTION
1.		Auger, See 440/640 Horizontal Auger/Bearing Page
2.	10033	Hex Head Cap Screw, 1/2" - 13 x 3 1/2"
	10111	Lock Nut, 1/2" - 13
3.	D0145	Shaft, 1 1/2" x 24 3/4"
4.	10008	Hex Head Cap Screw, 5/8" - 11 x 2"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8" - 11
5.	A0449	Bearing w/Lock Collar and Grease Fitting, 2"
	10641	Grease Fitting, 1/8" NPT
	R0265	Lock Collar w/Set Screws
	10080	Set Screw, 7/16" - 14 x 7/16"
6.	D4117	Sprocket, 26 Tooth
7.	A0713	Bushing w/HHCSs, Uses Set Screw
	10004	Hex Head Cap Screw, 3/8" - 16 x 1 1/4"
	10141	Set Screw, 1/4" - 20 x 3/4"
8.	D0148	Key, 1/2" x 1/2" x 2 1/2"
9.	10028	Hex Head Cap Screw, 3/4" - 10 x 3"
	10218	Washer, 3/4" USS
	10215	Machinery Bushing, 3/4"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4" - 10
10.	D4119	Idler Sprocket w/Bearing, 12 Tooth
	A0593	Bearing
11.	3304-51	Chain, No. 80, 51 Pitch Including Connector Link and Offset Link
	R0197	Connector Link, No. 80
	R0202	Offset Link, No. 80
12.	D4121	Bushing w/HHCSs
	10019	Hex Head Cap Screw, 5/16" - 16 x 1"
13.	D4118	Sprocket, 15 Tooth
14.	D0147	Key, 1/4" x 1/4" x 2"
15.	A4124	Oil Line
16.	10014	Hex Head Cap Screw, 1/2" - 13 x 1"
17.		Gearbox, See 440/640 Gearbox Page
18.	10017	Hex Head Cap Screw, 1/2" - 13 x 1 1/2"
	10228	Lock Washer, 1/2"
19.	D4120	Bushing w/HHCSs and Key
	10019	Hex Head Cap Screw, 5/16" - 16 x 1"
	R0361	Key, 3/8" x 1/2" x 2"
20.	A1572	Idler Bracket
21.	10008	Hex Head Cap Screw, 5/8" - 11 x 2"
	10217	Washer, 5/8" USS
	10230	Lock Washer, 5/8" - 11
	10104	Hex Nut, 5/8" - 11
22.	10218	Washer, 3/4" USS
23.	10215	Machinery Bushing, 3/4"
24.	3304-41	Chain, No. 80, 41 Pitch Including Connector Link and Offset Link
	R0197	Connector Link, No. 80
	R0202	Offset Link, No. 80
25.	10231	Lock Washer, 3/4"
26.	10105	Hex Nut, 3/4" - 10
27.	D4122	Bushing w/HHCSs, 1 1/2"
	10004	Hex Head Cap Screw, 3/8" - 16 x 1 1/4"
28.	10423	Street Elbow, 1/8" NPT
29.	A0450	Bearing w/Lock Collar, 1 1/2"
	R0266	Lock Collar w/Set Screws
	10072	Set Screw, 3/8" - 16 x 3/8"
30.	D0144	Key, 3/8" x 3/8" x 2 1/2"
31.	D1346	Shaft, 2" x 18 1/2"
32.	D0150	Spacer
33.	10013	Hex Head Cap Screw, 5/8" - 11 x 3 1/2"
	10107	Lock Nut, 5/8" - 11
34.		Auger, See 440 Vertical Auger/Lower Section Page



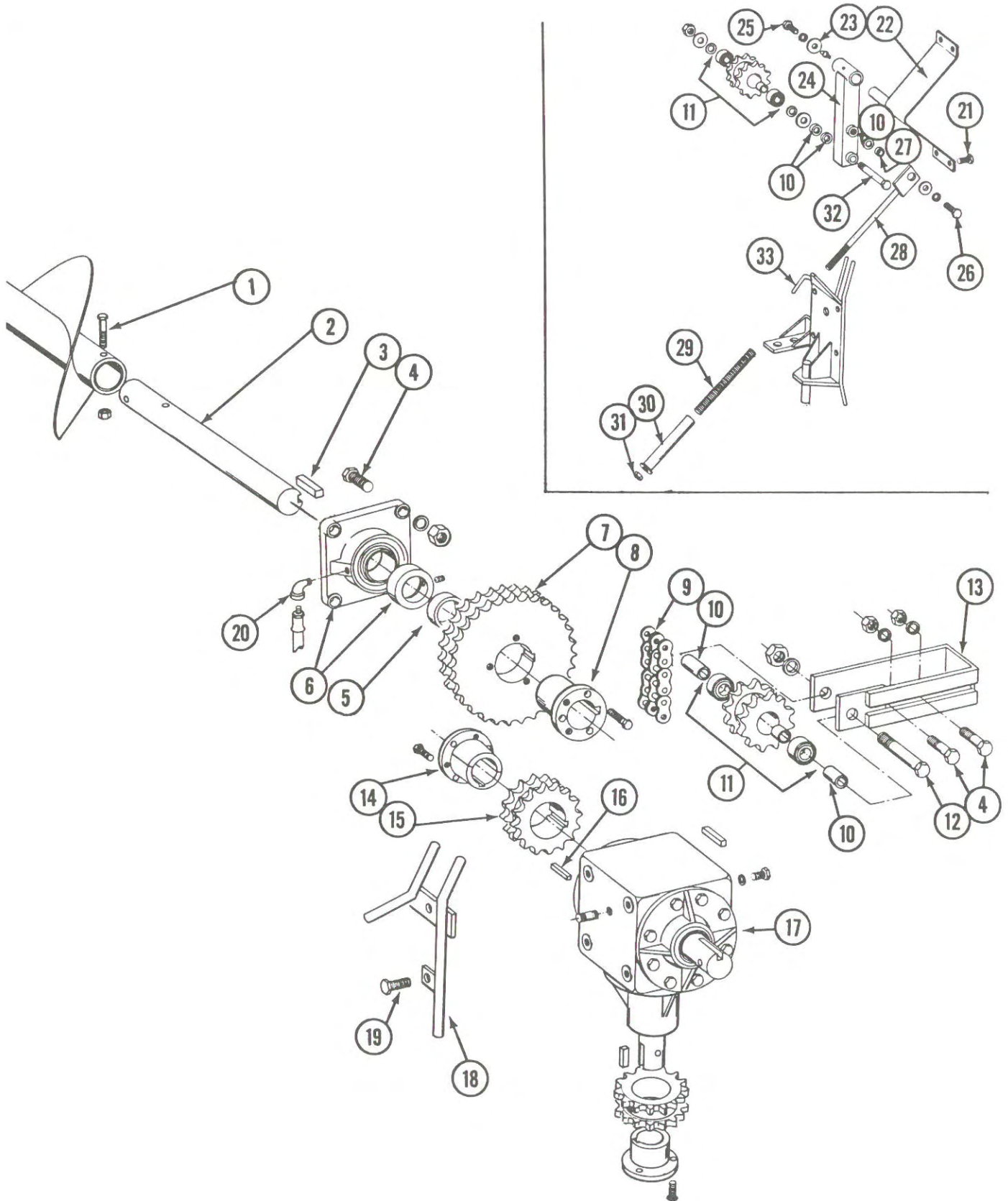
ITEM	PART NO.	DESCRIPTION
1.		Auger, See 640 Vertical Auger/Lower Section Page
2.	10013	Hex Head Cap Screw, 5/8"-11 x 3 1/2"
	10107	Lock Nut, 5/8"-11
3.	D3457-04	Sleeve
4.	D6387	Shaft, 2" x 20"
5.	10008	Hex Head Cap Screw, 5/8"-11 x 2"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8"-11
6.	A0449	Bearing W/Lock Collar, 2"
	R0265	Lock Collar W/Set Screws
	10080	Set Screw, 7/16"-14 x 7/16"
7.	10423	Street Elbow, 1/8" NPT
8.	D4117	Sprocket, 26 Tooth
9.	A0713	Bushing W/HHCSs and Set Screw, 2"
	10004	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	10141	Set Screw, 1/4"-20 x 3/4"
10.	D0148	Key, 1/2" x 1/2" x 2 1/2"
11.	3304-63	Chain, No. 80, 63 Pitch Including Connector Link and Offset Link
	R0197	Connector Link, No. 80
	R0202	Offset Link, No. 80
12.	D4119	Idler Sprocket W/Bearing, 12 Tooth
	A0593	Bearing
13.	D6425-01	Bushing
14.	10058	Hex Head Cap Screw, 3/4"-10 x 5 1/2"
	10215	Machinery Bushing, 3/4"
	10218	Washer, 3/4" USS
	10112	Lock Nut, 3/4"-10
15.	A4178	Idler Bolt
	10217	Washer, 5/8" USS
16.	A4179	Bracket
17.	A4175	Arm W/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
18.	D6337	Spring
19.	A4180	Spring Housing
20.	10107	Lock Nut, 5/8"-11
21.	10039	Hex Head Cap Screw, 1/2"-13 x 1 3/4"
	10228	Lock Washer, 1/2"
22.	D6408	Spacer
23.		Gearbox, See 440/640 Gearbox Page
24.	A4181	Idler Plate
25.	10438	Hex Head Cap Screw, 1/2"-13 x 3/4"
	10228	Lock Washer, 1/2"
26.	D0147	Key, 1/4" x 1/4" x 2"
27.	D4118	Sprocket, 15 Tooth
28.	D4121	Bushing W/HHCSs, 1 1/4"
	10019	Hex Head Cap Screw, 5/16"-16 x 1"
29.	10438	Hex Head Cap Screw, 1/2"-13 x 3/4"
	10228	Lock Washer, 1/2"
30.	A4734	Idler Plate
31.	A4690	Arm W/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
32.	10233	Machinery Bushing, 10 Gauge(As Required)
	10526	Machinery Bushing, 16 Gauge(As Required)



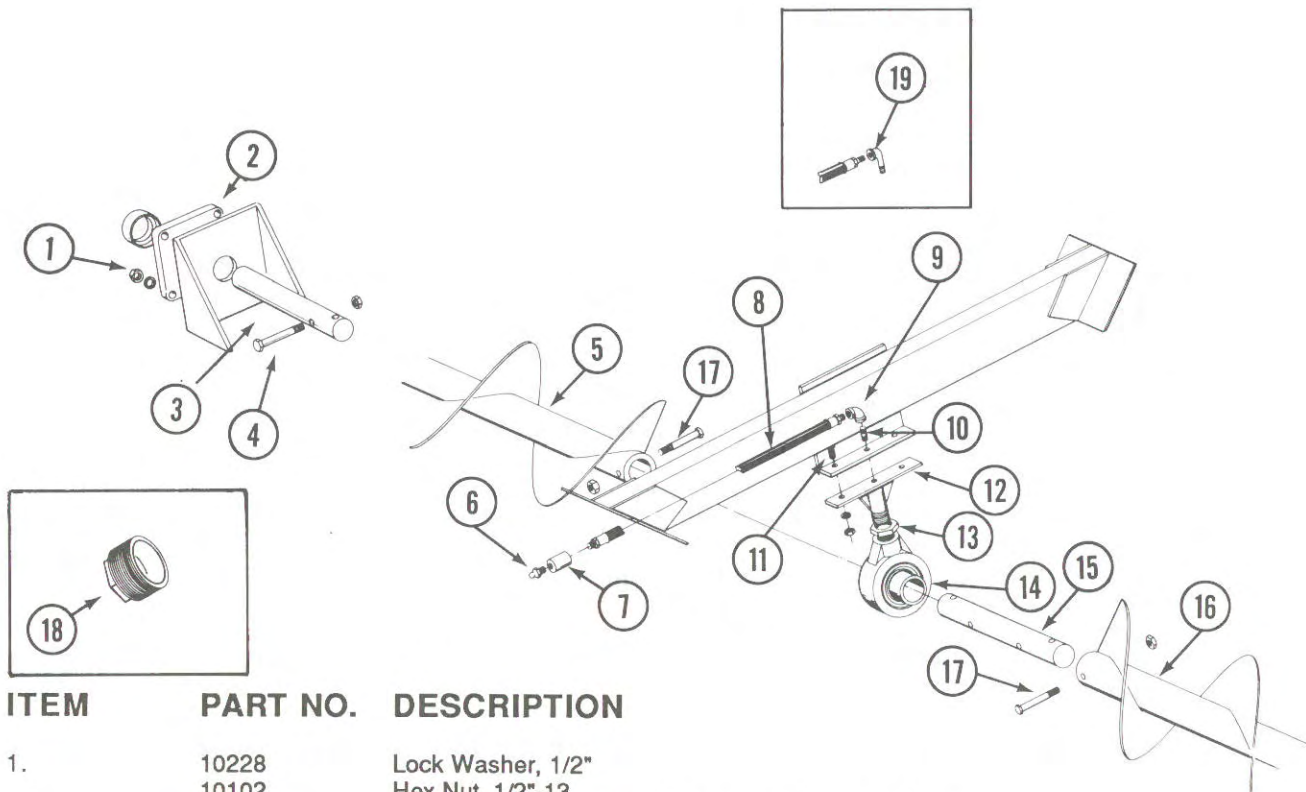
ITEM	PART NO.	DESCRIPTION
1.		Auger, See 440/640 Horizontal Auger/Bearing Page
2.	10013	Hex Head Cap Screw, 5/8"-11 x 3 1/2"
	10107	Lock Nut, 5/8"-11
3.	D1346	Shaft, 2" x 18 1/2"
4.	D0148	Key, 1/2" x 1/2" x 2 1/2"
5.	A4171	Bearing Spacer
6.	10055	Hex Head Cap Screw, 5/8"-11 x 1 1/4"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8"-11
7.	10005	Hex Head Cap Screw, 5/8"-11 x 1 3/4"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8"-11
8.	A0449	Bearing W/Lock Collar, 2"
	R0265	Lock Collar W/Set Screws
	10080	Set Screw, 7/16"-14 x 7/16"
9.	10423	Street Elbow, 1/8" NPT
10.	D6392	Sprocket, 34 Tooth
11.	D4123	Bushing W/HHCSs, 2"
	10004	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
12.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
13.	A4182	Upper Mounting Plate
14.	10438	Hex Head Cap Screw, 1/2"-13 x 3/4"
	10228	Lock Washer, 1/2"
15.	A4175	Arm W/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
16.	10058	Hex Head Cap Screw, 3/4"-10 x 5 1/2"
	10215	Machinery Bushing, 3/4"
	10218	Washer, 3/4" USS
	10112	Lock Nut, 3/4"-10
17.	D4119	Idler Sprocket W/Bearing
	A0531	Bearing
18.	3304-51	Chain, No. 80, 51 Pitch Including Connector Link and Offset Link
	R0197	Connector Link, No. 80
	R0202	Offset Link, No. 80
19.	D6425-01	Bushing
20.	A4177	Idler Bar
21.	D6337	Spring
22.	A4180	Spring Housing
23.	10107	Lock Nut, 5/8"-11
24.	D4120	Bushing W/HHCSs and Key, 1 1/2"
	10019	Hex Head Cap Screw, 5/16"-16 x 1"
	R0361	Key
25.	D4118	Sprocket, 15 Tooth
26.		Gearbox, See 440/640 Gearbox Page
27.		Gearbox Idler Plate, See 640 Vertical Auger Drive Page
28.	A4690	Arm W/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
29.	10028	Hex Head Cap Screw, 3/4"-10 x 3"
	10231	Lock Washer, 3/4"
	10215	Machinery Bushing, 3/4"
	10218	Washer, 3/4" USS



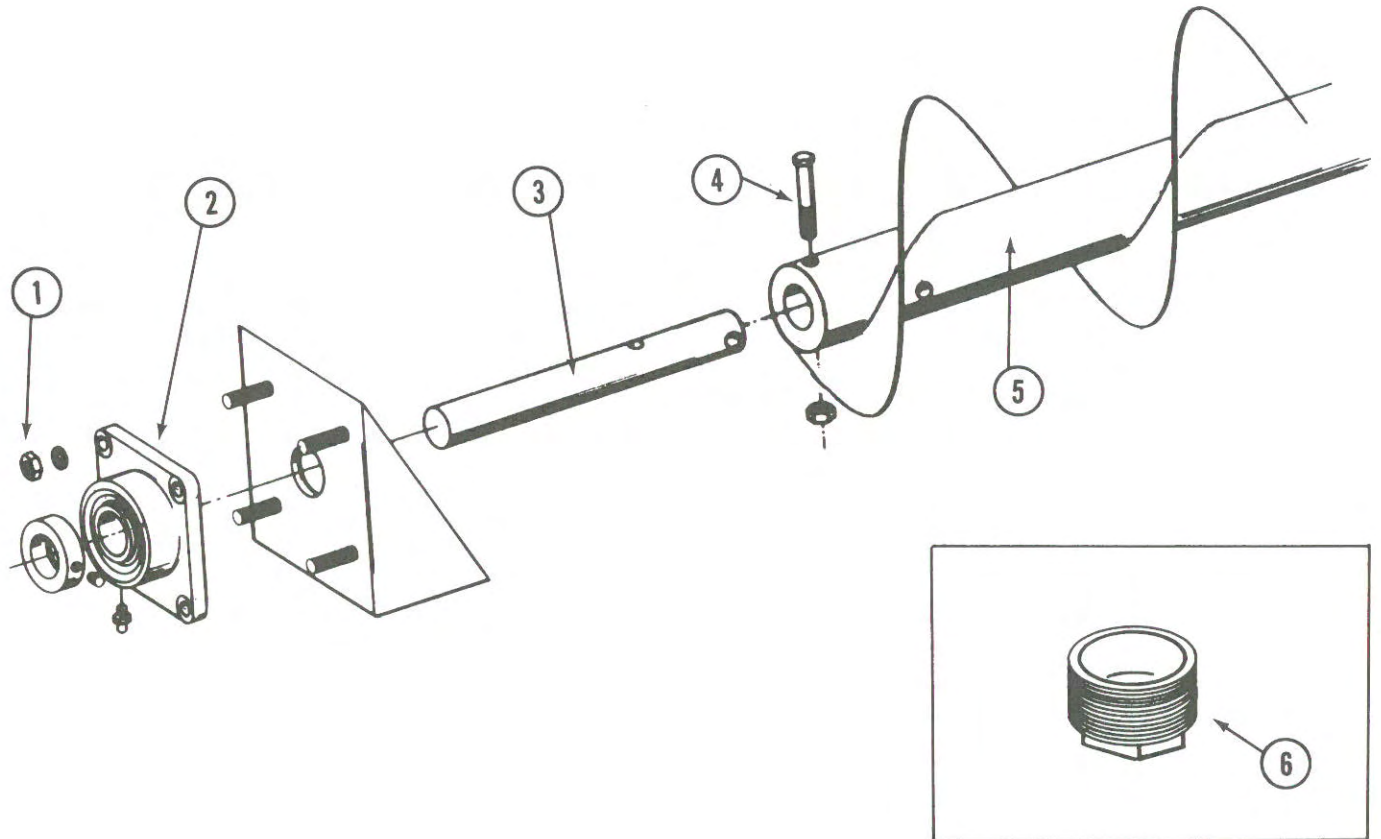
ITEM	PART NO.	DESCRIPTION
1.	10011	Hex Head Cap Screw, 5/8"-11 x 5 1/2"
	10107	Lock Nut, 5/8"-11
2.	D4017	Spacer, 1"
3.	D4008	Shaft, 2 7/16" x 25"
	D6885	Shaft, 2 7/16" x 22"
4.	A0448	Bearing W/Lock Collar, Set Screw and Grease Fitting
	R0264	Lock Collar, 2 7/16"
	10080	Set Screw, 7/16"-14 x 7/16"
	10641	Grease Fitting, 1/8" NPT
5.	10008	Hex Head Cap Screw, 5/8"-11 x 2"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8"-11
6.	10029	Hex Head Cap Screw, 3/4"-10 x 4 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4"-10
7.	A0424	Idler Bracket
8.	D2951	Sleeve
9.	A0447	Idler Sprocket W/Spacer and Bearings
	R0259	Spacer
	A0593	Bearing
10.	D1357	Sprocket, 30 Tooth
11.	D1358	Bushing, 2 7/16", W/HHCSs and Key
	R0258	Key, Offset
	10004	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
12.	D0144	Key, 3/8" x 3/8" x 2 1/2"
13.	D4077	Sprocket, 16 Tooth
14.	D4079	Bushing, 1 3/4", W/HHCSs
	10004	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
15.	3301-65	Chain, No. 80-2, 65 Pitch Including Connector and Offset Link
	R0206	Offset Link, No. 80-2
	R0198	Connector Link, No. 80-2
	10055	Hex Head Cap Screw, 5/8"-11 x 1 1/4"
16.		Gearbox, See 840/1240 Gearbox Page
17.		
18.	A4178	Idler Bracket
19.	A4691	Bracket
20.	10543	Hex Head Adjusting Bolt, 3/4"-10 x 3"
	10231	Lock Washer, 3/4"
	10218	Washer, 3/4" USS
21.	A4692	Idler Plate
22.	D6337	Spring
23.	A4180	Spring Housing
24.	10107	Lock Nut, 5/8"11
25.	A4690	Arm W/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
26.	10233	Machinery Bushing, 10 Gauge(As Required)
	10526	Machinery Bushing, 18 Gauge(As Required)
27.	10438	Hex Head Cap Screw, 1/2"-13 x 3/4"
	10228	Lock Washer, 1/2"
28.	10058	Hex Head Cap Screw, 3/4"-10 x 5 1/2"
	10215	Machinery Bushing, 3/4"
	10218	Washer, 3/4" USS
	10112	Lock Nut, 3/4"-10



ITEM	PART NO.	DESCRIPTION
1.	10036	Hex Head Cap Screw, 5/8"-11 x 4"
	10107	Lock Nut, 5/8"-11
2.	D1346	Shaft, 2" x 18 1/2"
3.	D1435	Key, 1/2" x 1/2" x 3"
4.	10009	Hex Head Cap Screw, 5/8"-11 x 2 1/2"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8"-11
5.	D4016	Spacer
6.	A0449	Bearing W/Lock Collar, 2"
	R0265	Lock Collar W/Set Screws
	10080	Set Screw, 7/16"-14 x 7/16"
7.	D1357	Sprocket, 30 Tooth
8.	D4123	Bushing W/HHCSs, 2"
	10004	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
9.	3301-47	Chain, No. 80-2, 47 Pitch Including Connector and Offset Link
	R0206	Offset Link, No. 80-2
	R0198	Connector Link, No. 80-2
10.	D2951	Sleeve
11.	A0447	Sprocket W/Spacer and Bearings
	A0593	Bearing
	R0259	Spacer
12.	10029	Hex Head Cap Screw, 3/4"-10 x 4 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4"-10
13.	A0424	Bracket
14.	D4079	Bushing W/HHCSs, 1 3/4"
	10004	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
15.	D4077	Sprocket, 16 Tooth
16.	D0144	Key, 3/8" x 3/8" x 2 1/2"
17.		Gearbox, See 840/1240 Gearbox Page
18.	A4111	Oil Line
19.	10443	Hex Head Cap Screw, 5/8"-11 x 1"
20.	10423	Street Elbow, 1/8" NPT
21.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
22.	A4182	Upper Mounting Plate
23.	10233	Machinery Bushing, 10 Gauge(As Required)
	10526	Spacer Washer, 18 Gauge(As Required)
24.	A4690	Arm W/Grease Fitting
	10641	Grease Fitting, 1/8" NPT
25.	10438	Hex Head Cap Screw, 1/2"-13 x 3/4"
	10228	Lock Washer, 1/2"
26.	10028	Hex Head Cap Screw, 3/4"-10 x 3"
	10231	Lock Washer, 3/4"
	10218	Washer, 3/4" USS
27.	D6425-01	Bushing
28.	A4177	Idler Bar
29.	D6337	Spring
30.	A4180	Spring Housing
31.	10107	Lock Nut, 5/8"-11
32.	10400	Hex Head Cap Screw, 3/4"-10 x 6 1/2"
	10215	Machinery Bushing, 3/4"
	10218	Washer, 3/4" USS
	10112	Lock Nut, 3/4"-10
33.		Idler Plate, See 840 Vertical Auger Drive Page
A.	A0590	Idler Assembly Complete(Items 10-13)



ITEM	PART NO.	DESCRIPTION
1.	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
2.	A0450	Bearing W/Lock Collar and Grease Fitting, 1 1/2"
	10641	Grease Fitting, 1/8" NPT
	R0266	Lock Collar W/Set Screws
	10072	Set Screw, 3/8"-16 x 3/8"
3.	D1447	Shaft, 1 1/2" x 16 1/2"
4.	10033	Hex Head Cap Screw, 1/2"-13 x 3 1/2"
	10111	Lock Nut, 1/2"-13
5.	A4529	Rear Auger, Left Hand, 9" x 70", 440
	A4533	Rear Auger, Left Hand, 12" x 72", 640
6.	10641	Grease Fitting, 1/8" NPT
7.	10125	Pipe Coupling, 1/8" NPT
8.	A0504	Grease Hose, 24"
9.	10126	Elbow, 90°, 1/8" NPT(440 Only)
10.	10127	Pipe Nipple, 1/8" NPT x 1 1/2"(440 Only)
11.	10039	Hex Head Cap Screw, 1/2"-13 x 1 3/4", 640
	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2", 440
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
12.	A1560	Bracket, 440
	A4147	Bracket, 640
13.	10153	Lock Nut, 3/4" NPT, 440
	10115	Lock Nut, 1" NPT, 640
14.	A1559	Hanger Bearing, 1 1/2", 440
	A1567	Hanger Bearing, 2", 640
15.	D2404	Shaft, 1 1/2" x 14", 440
	D4010	Shaft, 2" x 13 1/2", 640
16.	A4529	Front Auger, Left Hand, 9" x 70", 440
	A4532	Front Auger, Left Hand, 12" x 86 1/2", 640
17.	10033	Hex Head Cap Screw, 1/2"-13 x 3 1/2", 440
	10111	Lock Nut, 1/2"-13
	10036	Hex Head Cap Screw, 5/8"-11 x 4", 640
	10107	Lock Nut, 5/8"-11
18.	10185	Pipe Plug, 2"(Located in bottom of wagon)
19.	10423	Street Elbow, 1/8"(640 Only)

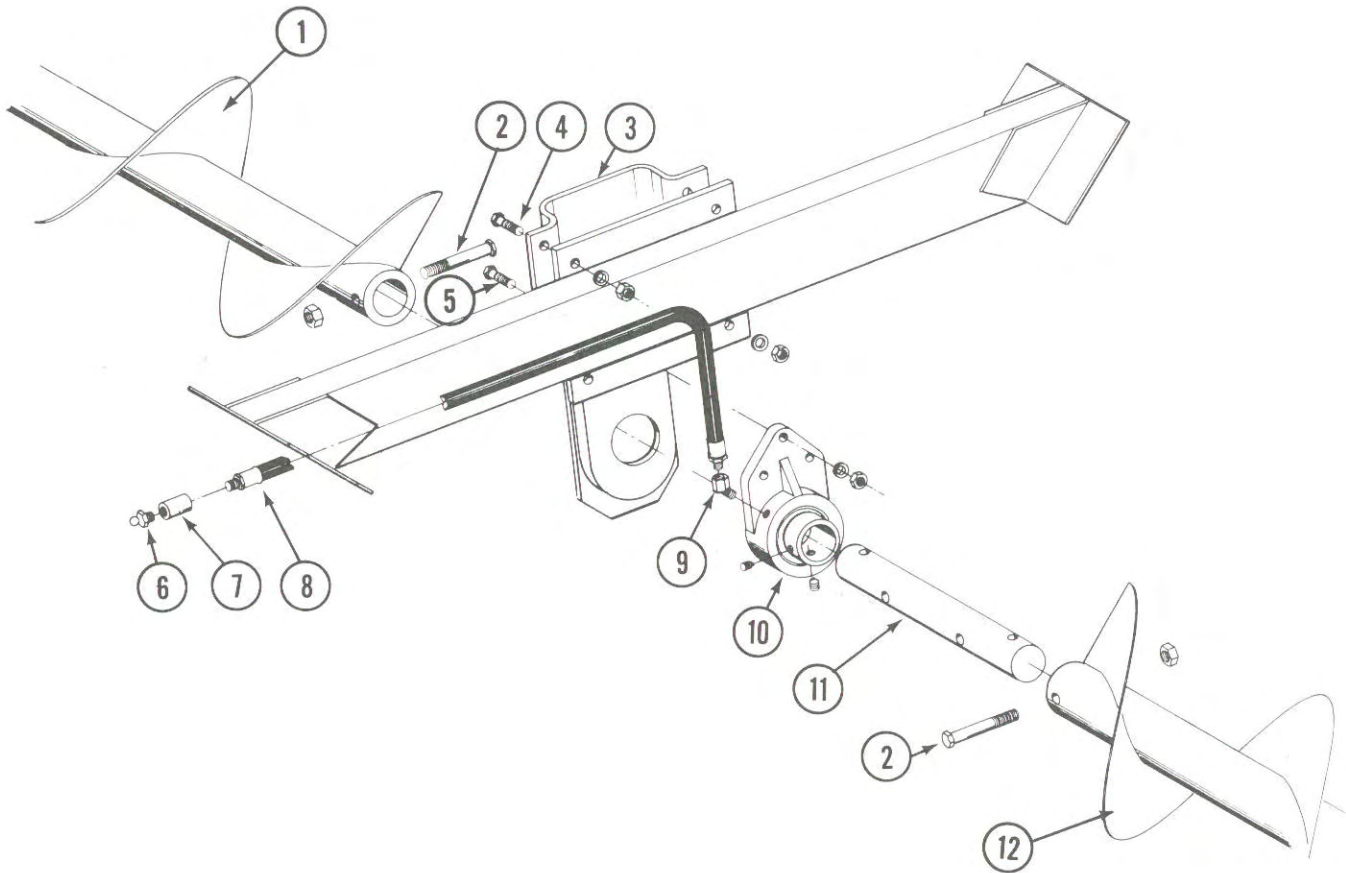


ITEM PART NO. DESCRIPTION

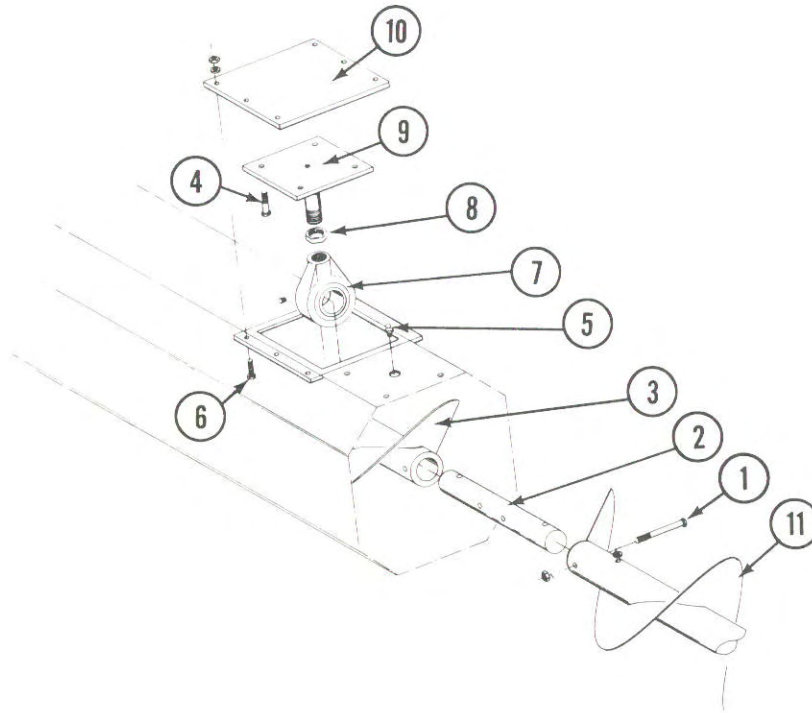
1.	10230 10104	Lock Washer, 5/8"
2.	A0449 R0265 10080 10641	Bearing W/Lock Collar and Grease Fitting, 2" Lock Collar W/Set Screws Set Screw, 7/16"-14 x 7/16" Grease Fitting, 1/8"NPT
3.	D1347	Shaft, 2"x 13"
4.	10318 10107	Hex Head Cap Screw, 5/8"-11 x 4 1/2" Lock Nut, 5/8"-11
5.	A0518 A0791	Rear Auger, Left Hand, 12"x 96", 840 Rear Auger, Left Hand, 12"x 81 1/2", 1240
6.	10185	Pipe Plug, 2" (Located in bottom of wagon)

CENTER HORIZONTAL BEARING AND FRONT HORIZONTAL AUGER

840

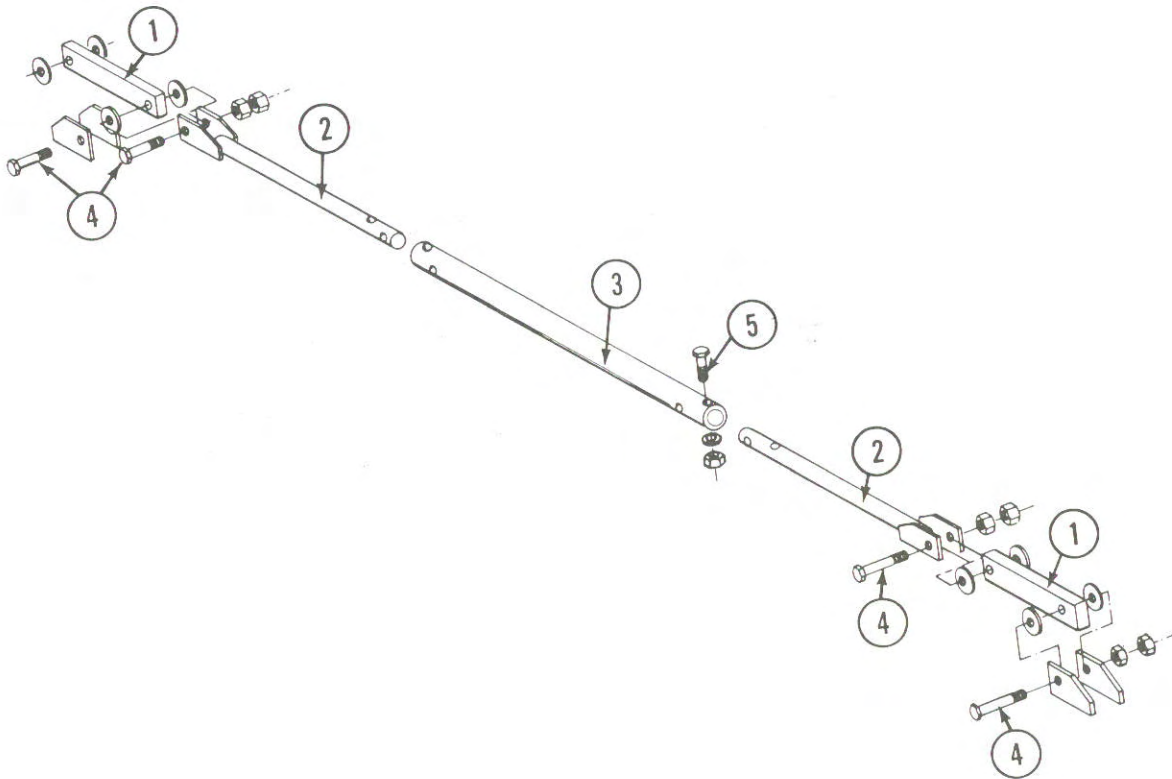


ITEM	PART NO.	DESCRIPTION
1.		Auger, See 840 Rear Horizontal Auger Page
2.	10318	Hex Head Cap Screw, 5/8"-11 x 4 1/2"
	10107	Lock Nut, 5/8"x 11
3.	A0685	Mount
4.	10016	Hex Head Cap Screw, 1/2"-13 x 2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
5.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
6.	10641	Grease Fitting, 1/8"NPT
7.	10125	Pipe Coupling, 1/8"NPT
8.	A0504	Grease Hose, 24"
9.	5503-02-02	Elbow, 45°
10.	A0517	Bearing W/Set Screws and Grease Fitting
	10132	Set Screw, 3/8"-24 x 5/16"
	10641	Grease Fitting, 1/8"NPT
11.	D4010	Shaft, 2"x 13 1/2"
12.	A0519	Front Auger, Left Hand, 12"x 11'2"



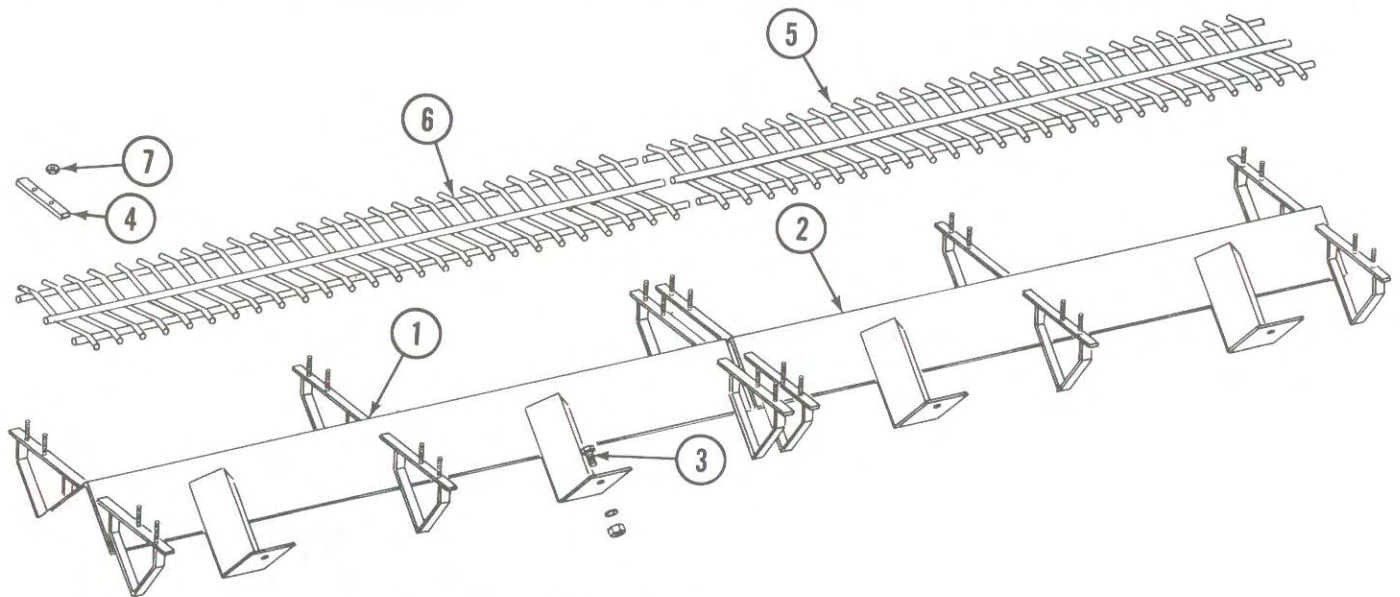
ITEM	PART NO.	DESCRIPTION
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1.	10318	Hex Head Cap Screw, 5/8"-11 x 4 1/2"
	10107	Lock Nut, 5/8"-11
2.	D4010	Shaft, 2"x 13 1/2"
3.	A0792	Center Auger, Left Hand, 12"x 4'10 1/2"
4.	10037	Hex Head Cap Screw, 1/2"-13 x 1 1/4"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
5.	10641	Grease Fitting, 1/8"NPT
6.	10004	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
7.	A1567	Bearing, 2"
8.	10115	Lock Nut, 1"NPT
9.	A0790	Bracket
10.	D1581	Inspection Plate
11.	A0519	Front Auger, Left Hand, 12"x 11'2"



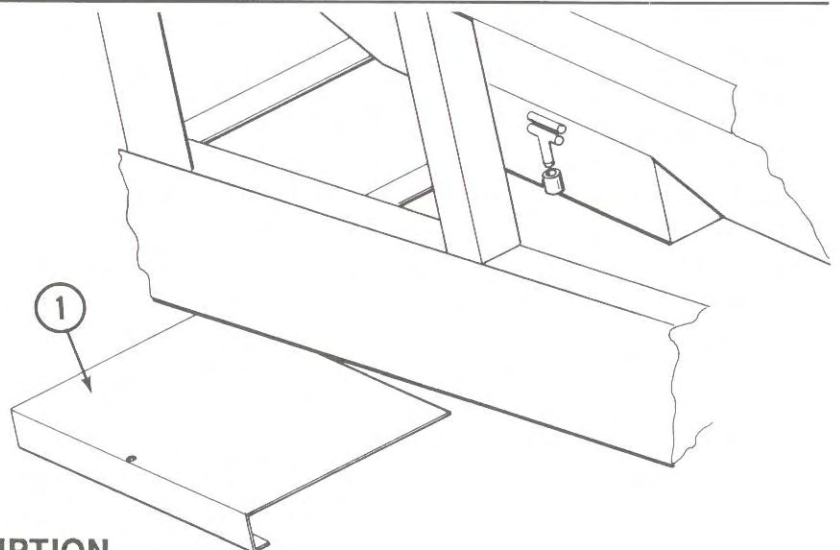
ITEM	PART NO.	DESCRIPTION
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1.	D1541	Linkage Bar
2.	IK135	Linkage Shaft Kit
3.	D1547	Coupler, Linkage
4.	10056	Hex Head Cap Screw, 3/4"-10 x 3 1/2"
	10218	Washer, 3/4"USS
	10105	Hex Nut, 3/4"-10
5.	10038	Hex Head Cap Screw, 1/2"-13 x 3"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13



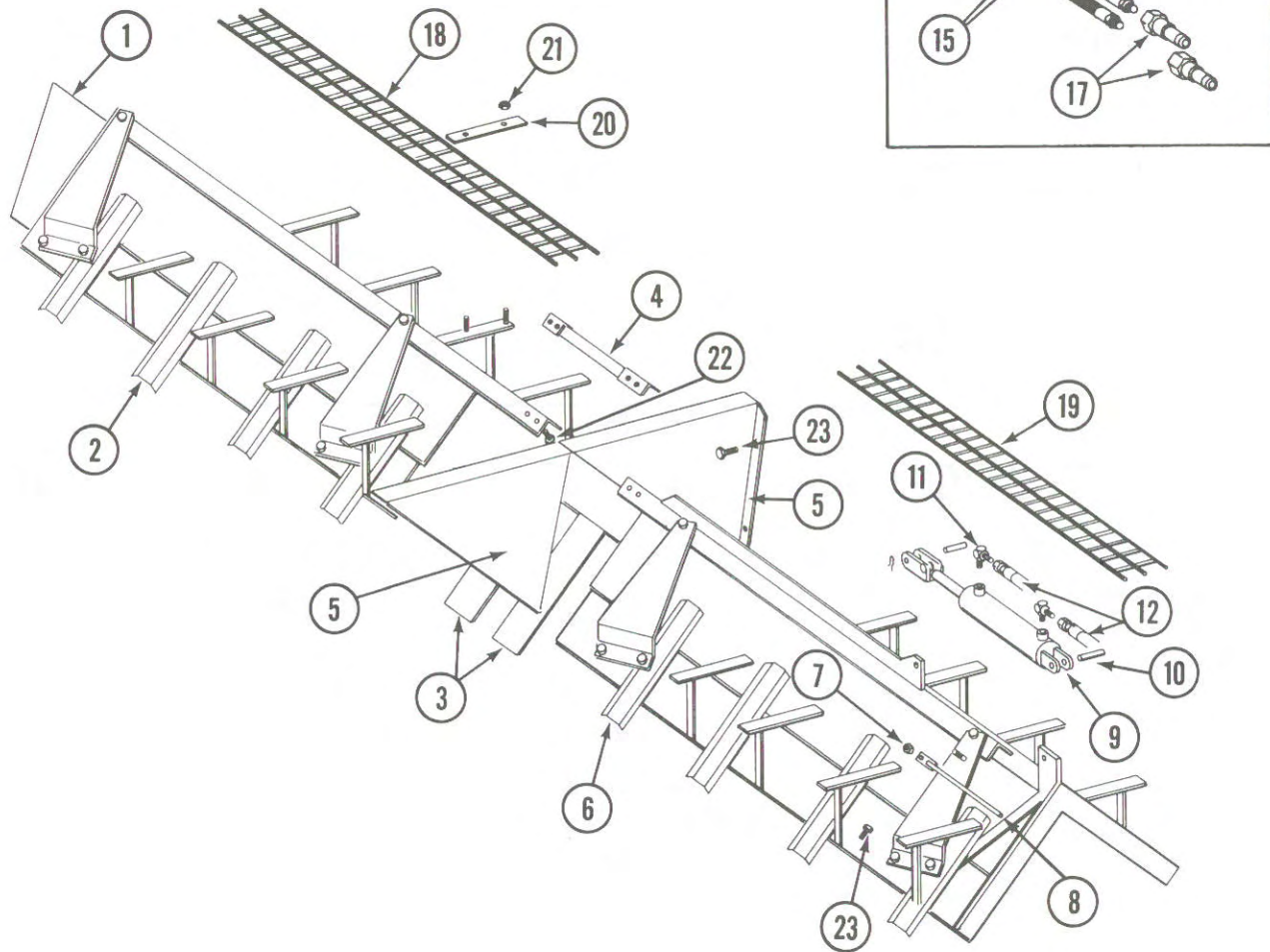
ITEM	PART NO.	DESCRIPTION
1.	A4673	Tunnel Cover, Front, 68"
2.	A4674	Tunnel Cover, Rear, 76"
3.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
4.	D6447	Clamp
5.	A4185	Screen, Front, 66"
6.	A4186	Screen, Rear, 78"
7.	10108	Lock Nut, 3/8"-16

CLEANOUT DOOR



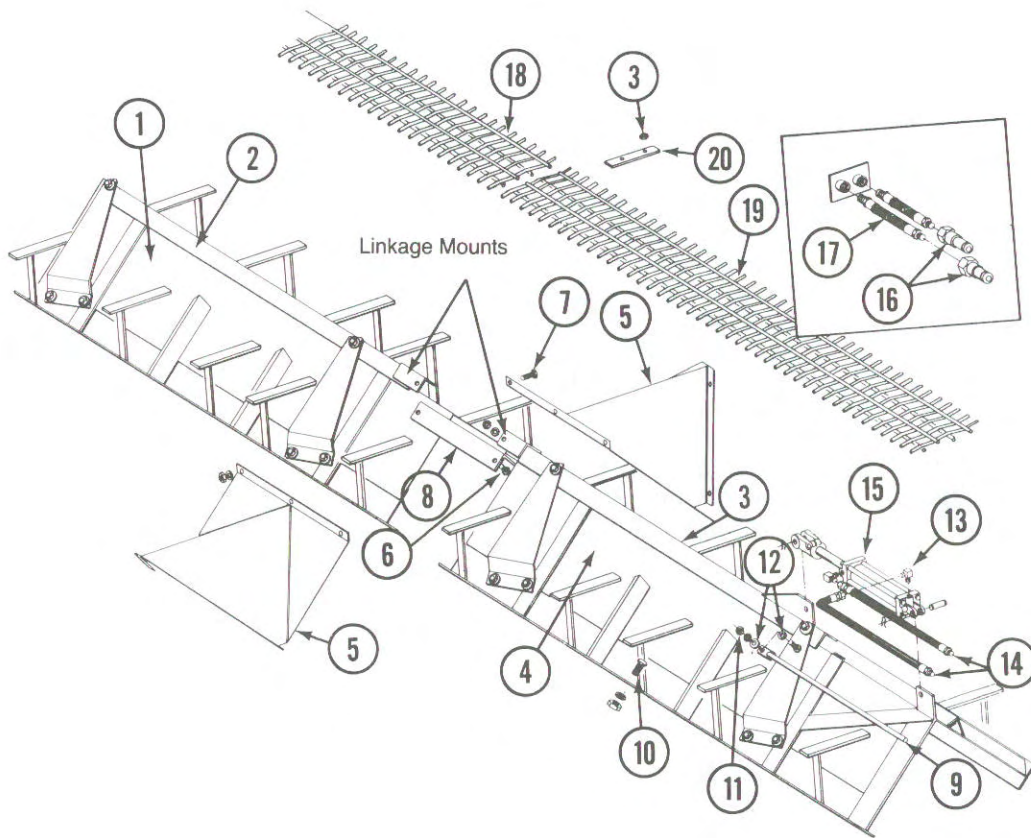
ITEM	PART NO.	DESCRIPTION
1.	D0197	Door

GRAIN FLOW CONTROL GATE OPTIONAL 440/STANDARD 640

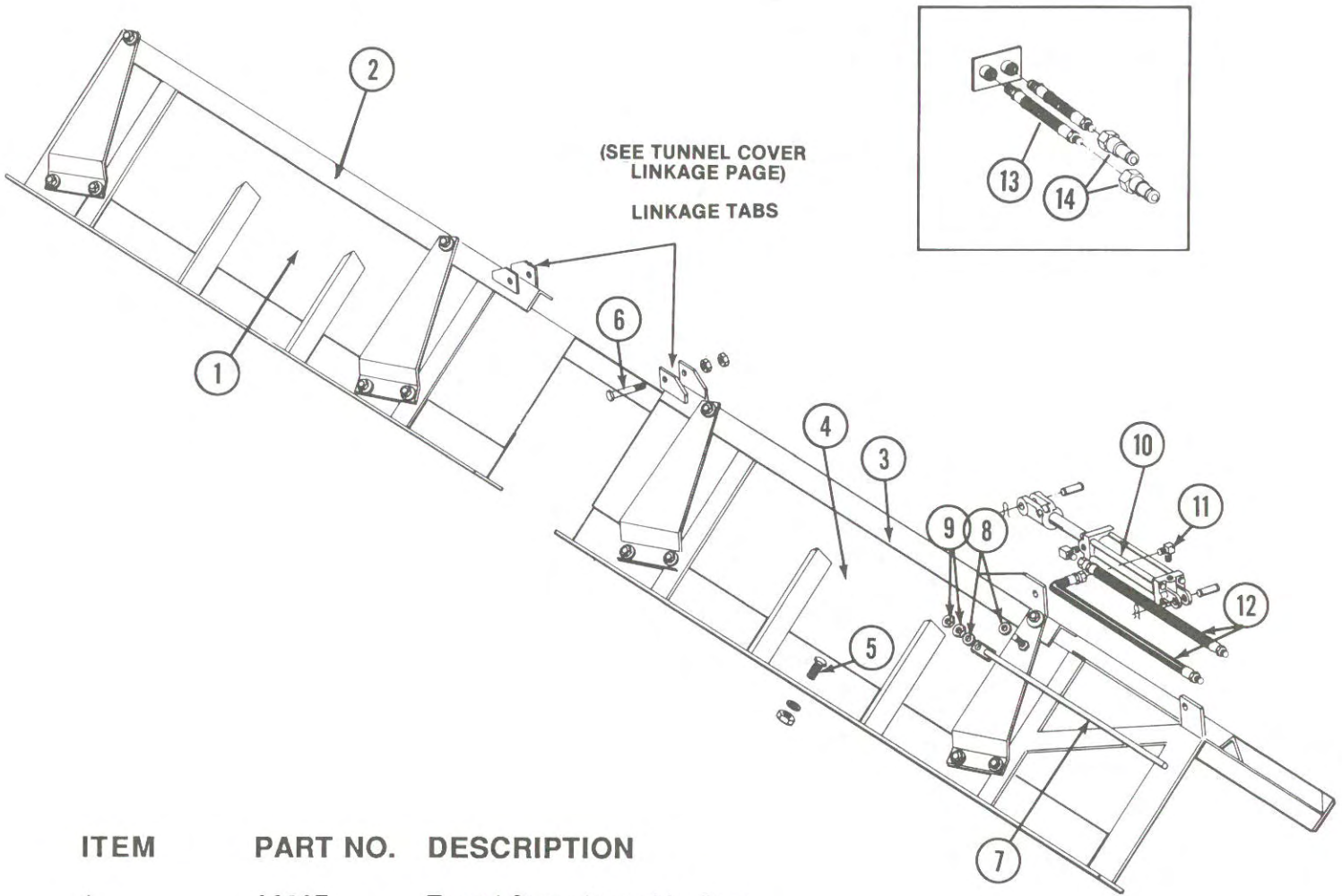


GRAIN FLOW CONTROL GATE OPTIONAL 440/STANDARD 640

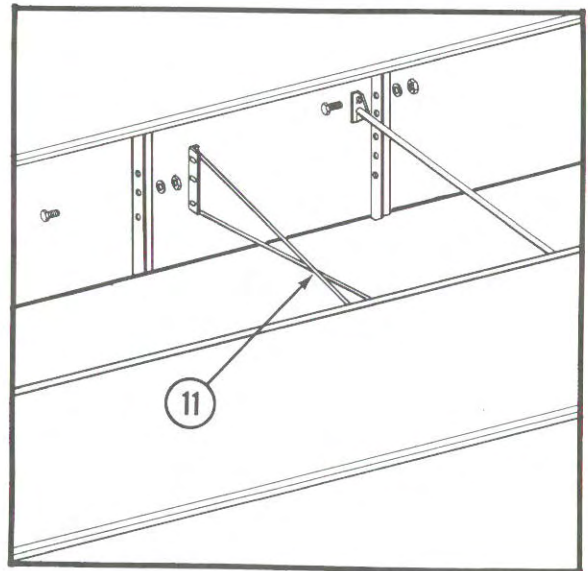
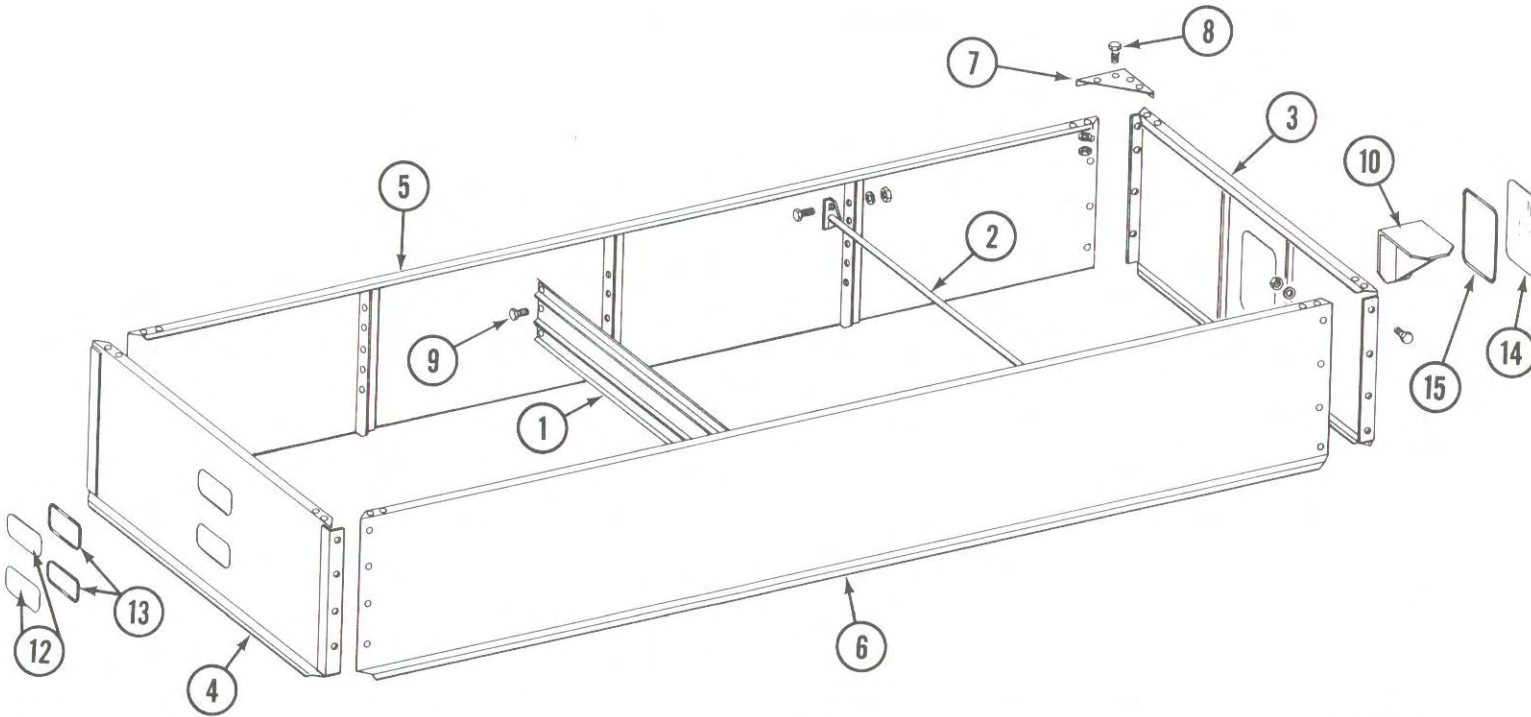
ITEM	PART NO.	DESCRIPTION
1.	D6307	Cap
2.	A4134	Tunnel Cover Assembly, Rear
3.	D6309	Plate, 6"
	D6985	Plate, 7"
4.	A4088	Tie
5.	D6308	Bearing Cover
6.	A4135	Tunnel Cover Assembly, Front
7.	10111	Lock Nut, 1/2"-13
8.	A4085	Sight Gauge Rod
9.		Cylinder, See 640 Grain Flow Control Gate Cylinder Page
10.	R0962	Pin, 1" x 3 3/8"
	R0193	Hair Pin Clip
11.	6801-06-08	Elbow
12.	A1137	Hose Assembly, 1/4" x 23"
13.	2700-06-06	Bulkhead Tube Union, 9/16"-18
14.	D6322	Plate
15.	306-06	Lock Nut, 1/4" x 120"
16.	A1111	Hose Assembly, 1/4" x 120"
17.	D4086	Tip, Male Pioneer
18.	A4186	Screen, Rear, 78"
19.	A4185	Screen, Front, 66"
20.	D6447	Bar Clamp
21.	10108	Lock Nut, 3/8"-16
22.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
23.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16



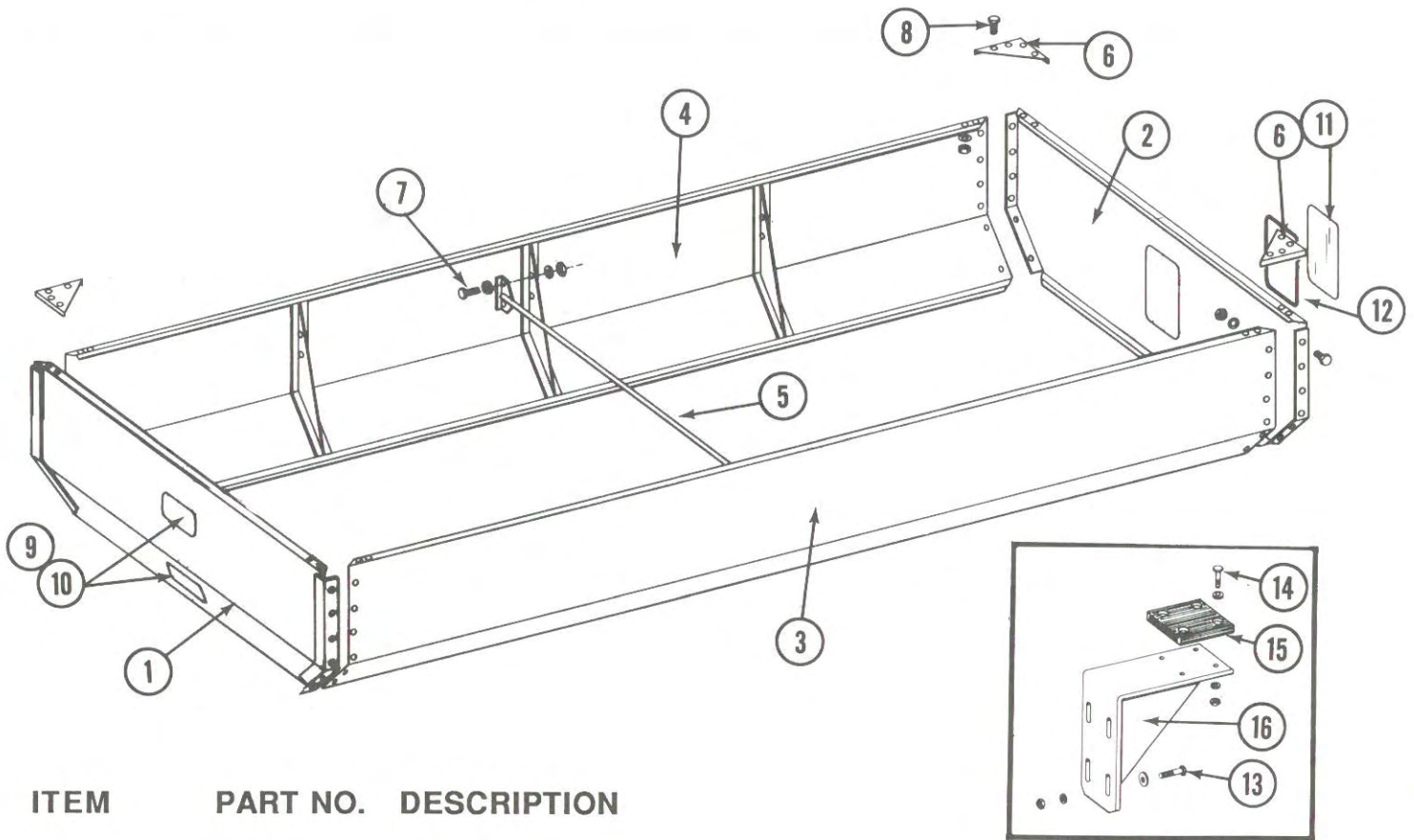
ITEM	PART NO.	DESCRIPTION
1.	A4719	Tunnel Cover Assembly, Rear (Includes Item 2 Less Linkage Mount)
2.	A1539	Linkage Arm
3.	10108	Lock Nut, 3/8"-16
4.	A4718	Tunnel Cover Assembly, Front (Includes Item 2 Less Linkage Mount)
5.	A0696	Bearing Cover
6.	10025	Hex Head Cap Screw, 3/4"-10 x 1 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4"-10
7.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10029	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
8.	D4061	Connector Arm
9.	A0686	Rod
10.	10004	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	10029	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
11.	10102	Hex Nut, 1/2"-13
12.	10216	Washer, 1/2" USS
13.	2501-08-08	Elbow, 90°, 3/4"-16 JIC to 1/2" NPT(Used With Cylinder Requiring 1/2" Pipe Thread Fitting)
	6801-08	Elbow, 90°, 3/4"-16 JIC to 3/4" O-ring(Used With Cylinder Requiring 3/4" O-ring Fitting)
14.	A1017	Hose Assembly, 3/8" x 24"
15.		Cylinder, See 840 Grain Flow Control Gate Cylinder Page
16.	D4086	Tip, Male Pioneer
17.	A1016	Hose Assembly, 3/8" x 120"
18.	A4698	Screen, Rear, 96"
19.	A4697	Screen, Front, 108"
20.	D7071	Bar



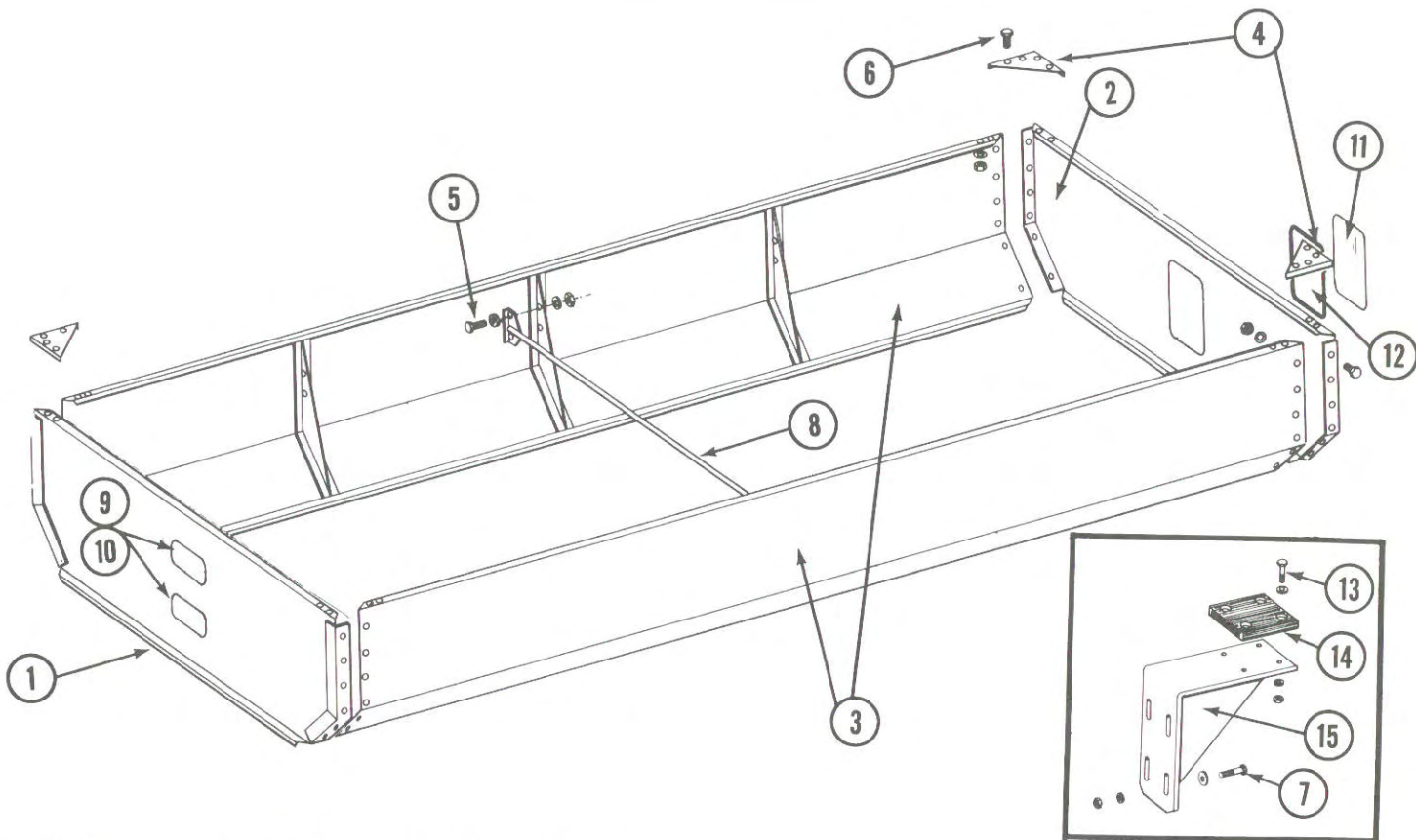
ITEM	PART NO.	DESCRIPTION
1.	A0807	Tunnel Cover Assembly, Rear (Includes Item 2 Less Linkage Tabs)
2.	A0805	Rear Linkage Arm
3.	A0804	Front Linkage Arm
4.	A0689	Tunnel Cover Assembly, Front (Includes Item 3 Less Linkage Tabs)
5.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
6.	10056	Hex Head Cap Screw, 3/4"-10 x 3 1/2"
	10105	Hex Nut, 3/4"-10
7.	A0686	Sight Gauge Rod
8.	10216	Washer, 1/2" USS
9.	10102	Hex Nut, 1/2"-13
10.		Cylinder, See 1240 Grain Flow Control Gate Cylinder Page
11.	2501-08-08	Elbow, 90°, 3/4"-16 JIC to 1/2" NPT(Used With Cylinder Requiring 1/2" Pipe Thread Fitting)
	6801-08	Elbow, 90°, 3/4"-16 JIC to 3/4" O-ring(Used With Cylinder Requiring 3/4" O-ring Fitting)
12.	A1017	Hose Assembly, 3/8" x 24"
13.	A1016	Hose Assembly, 3/8" x 120"
14.	D4086	Tip, Male Pioneer



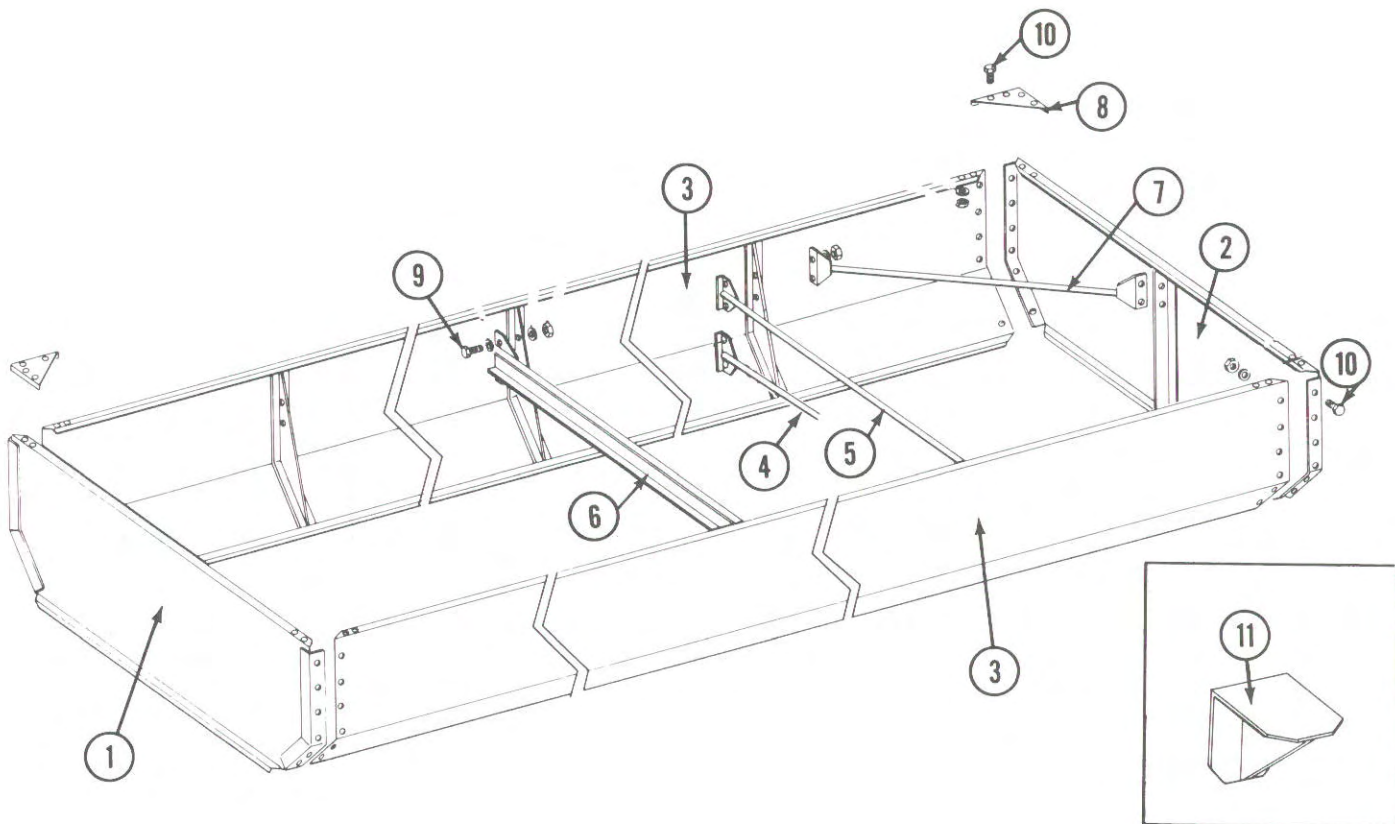
ITEM	PART NO.	DESCRIPTION
1.	A0432	Cross Brace, Center
2.	A0431	Cross Brace
3.	A1573	Panel, Front
4.	A1574	Panel, Rear
5.	A1575	Panel, Left Hand Side
6.	A1576	Panel, Right Hand Side
7.	D0327	Corner Cap
8.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
9.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
10.	A0721	Auger Stop (Must be welded in place.)
11.	A4689	Cross Brace
12.	D6460	Rear Window, 6 1/2" x 10 1/2"
13.	D6461-01	Rear Window Molding
14.	D6487	Front Window, 10 1/2" x 19 1/4"
15.	D6461-02	Front Window Molding



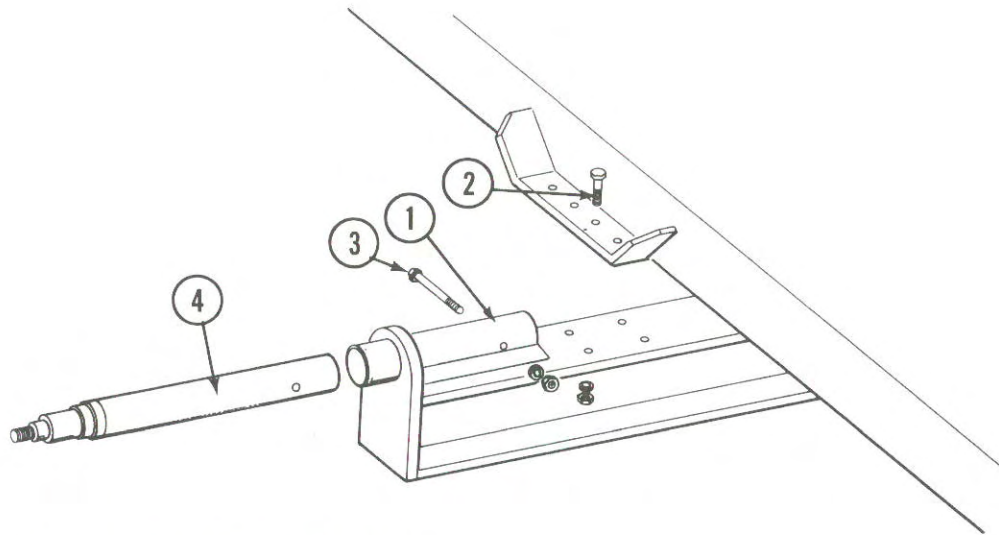
ITEM	PART NO.	DESCRIPTION
1.	A4151	Panel, Rear
2.	A4152	Panel, Front
3.	A4156	Panel, Right Hand Side
4.	A4155	Panel, Left Hand Side
5.	A0437	Cross Brace, 119 1/2"
	A4688	Cross Brace, 119"
6.	D0327	Corner Cap
7.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10216	Washer, 1/2" USS
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
8.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
9.	D6460	Rear Window, 6 1/2" x 10 1/2"
10.	D6461-01	Rear Window Molding
11.	D6487	Front Window, 10 1/2" x 19 1/4"
12.	D6461-02	Front Window Molding
13.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10216	Washer, 1/2" USS
	10102	Hex Nut, 1/2"-13
14.	10003	Hex Head Cap Screw, 3/8"-16 x 1 1/2", Grade 5
	10210	Washer, 3/8" USS
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
15.	D6978	Rubber Stop
16.	A4664	Bracket, Adjustable



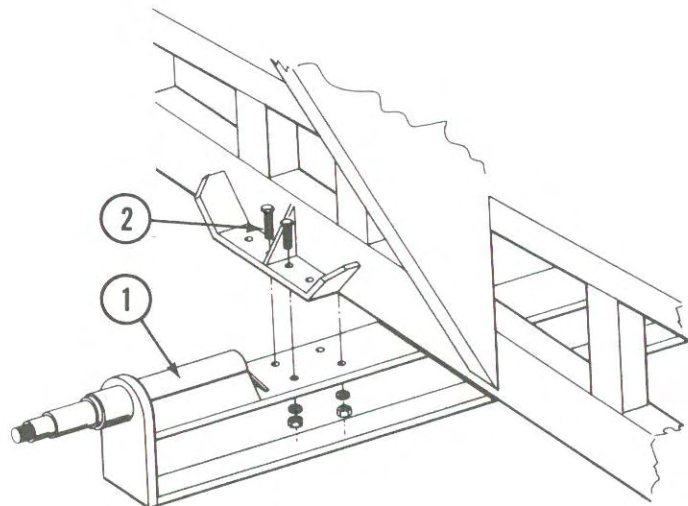
ITEM	PART NO.	DESCRIPTION
1.	A4194	Panel, Rear
2.	A4195	Panel, Front
3.	A4196	Panel
4.	D0327	Corner Cap
5.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
6.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
7.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10216	Washer, 1/2" USS
	10102	Hex Nut, 1/2"-13
8.	A0437	Cross Brace
9.	D6460	Rear Window, 6 1/2" x 10 1/2"
10.	D6461-01	Rear Window Molding
11.	D6487	Front Window, 10 1/2" x 19 1/4"
12.	D6461-02	Front Window Molding
13.	10003	Hex Head Cap Screw, 3/8"-16 x 1 1/2", Grade 5
	10210	Washer, 3/8" USS
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
14.	D6978	Rubber Stop
15.	A4664	Bracket, Adjustable



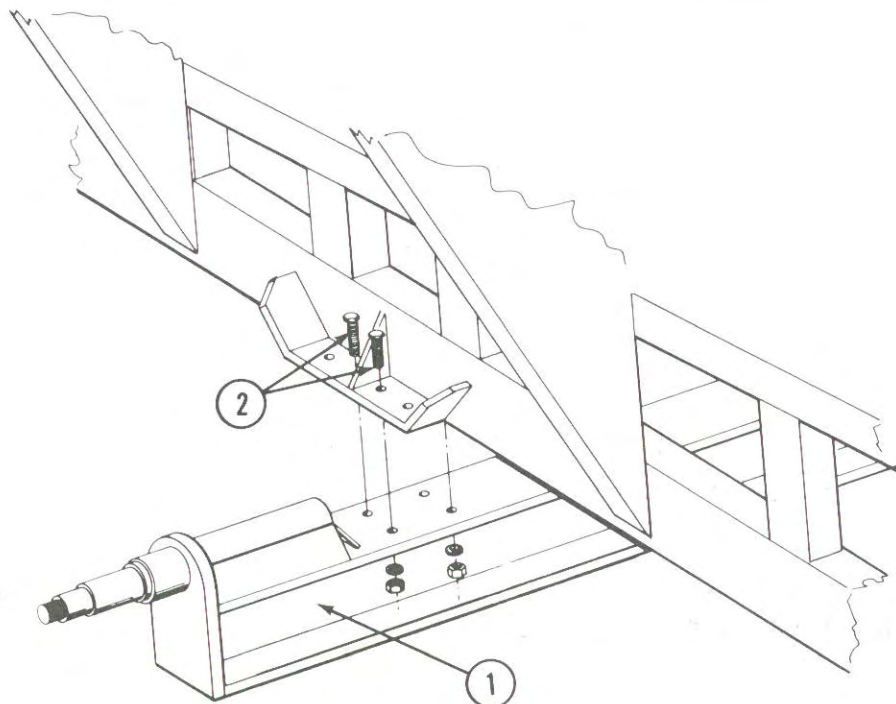
ITEM	PART NO.	DESCRIPTION
1.	A0795	Panel, Rear
2.	A0794	Panel, Front
3.	A0796	Panel, Side
4.	A0431	Cross Brace
5.	A0798	Cross Brace
6.	A0799	Cross Tie, Center
7.	A0801	Cross Brace, End
8.	D0327	Corner Cap
9.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10216	Washer, 1/2" USS
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
10.	10001	Hex Head Cap Screw, 3/8"-16 x 1"
	10229	Lock Washer, 3/8"
	10101	Hex Nut, 3/8"-16
11.	A0435	Auger Stop (Must be welded in place)



ITEM	PART NO.	DESCRIPTION
1.	A4117 A4119	Axle, Standard Axle, 120"
2.	10027 10231 10105	Hex Head Cap Screw, 3/4"-10 x 2 1/2" Lock Washer, 3/4" Hex Nut, 3/4"-10
3.	10431 10231 10105	Hex Head Cap Screw, 3/4"-10 x 5" Lock Washer, 3/4" Hex Nut, 3/4"-10
4.	D6290	Spindle

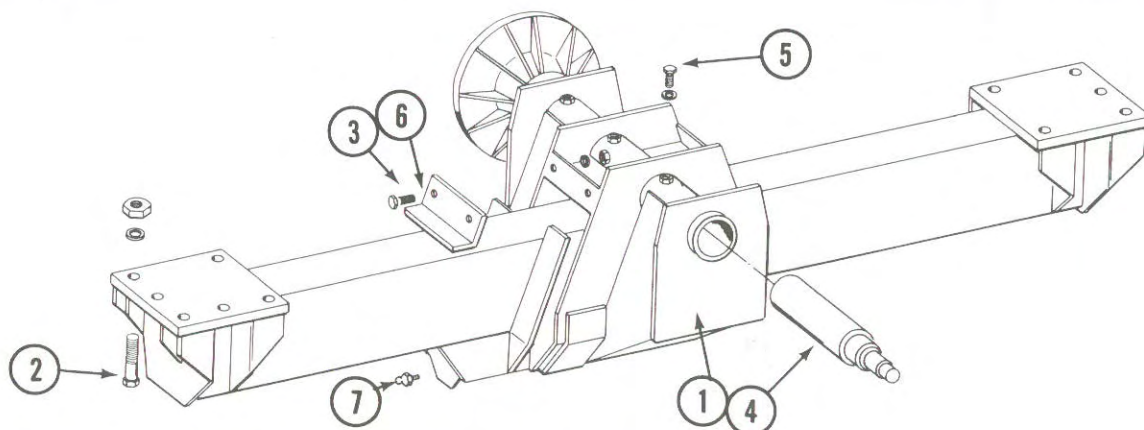


ITEM	PART NO.	DESCRIPTION
1.	A4137 A4138	Axle, Standard Axle, 120"
2.	10027 10231 10105	Hex Head Cap Screw, 3/4"-10 x 2 1/2" Lock Washer, 3/4" Hex Nut, 3/4"-10

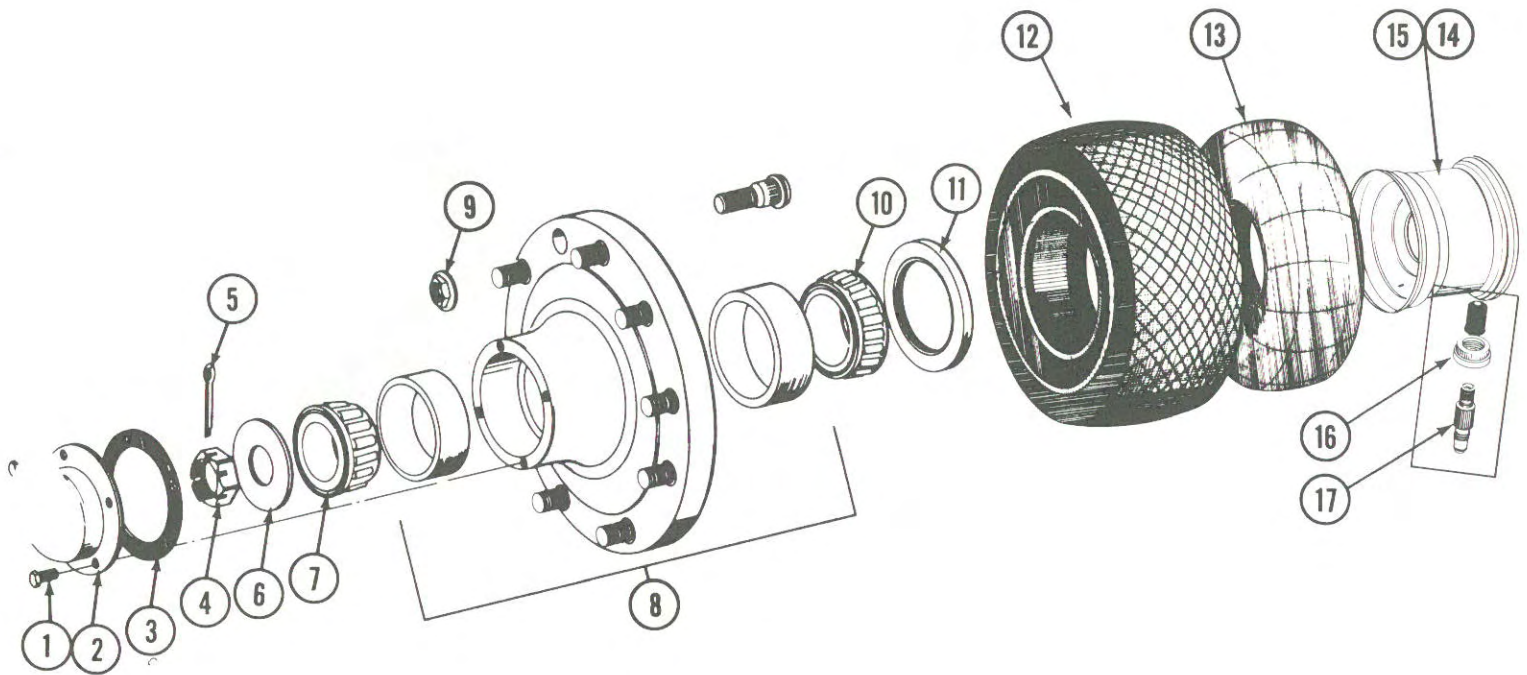


ITEM	PART NO.	DESCRIPTION
1.	A0597	Axle, Standard
	A0726	Axle, 120"
2.	10027	Hex Head Cap Screw, 3/4"-10 x 2 1/2"
	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4"-10

1240

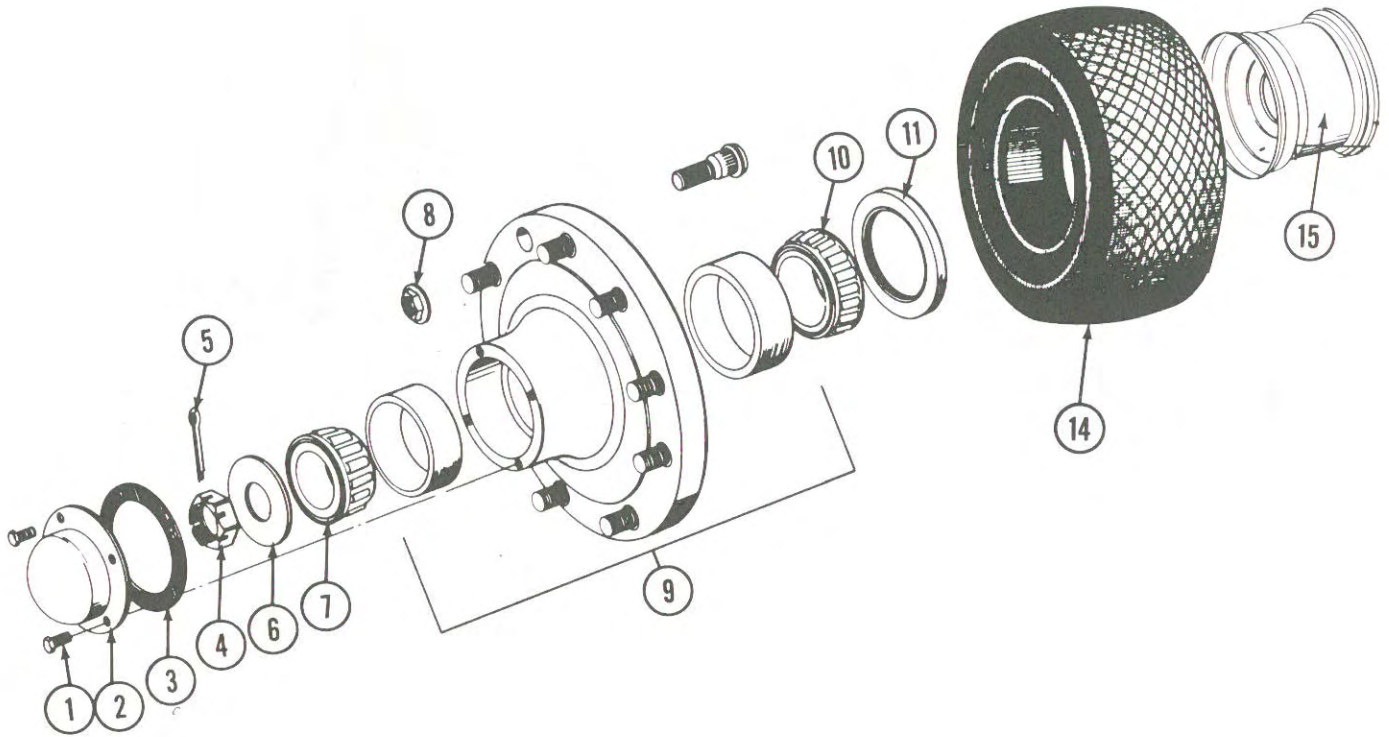


ITEM	PART NO.	DESCRIPTION
1.	A1587	Axle, Less Hub and Spindle Assemblies
2.	10119	Hex Head Cap Screw, 1"-8 x 3"
	10118	Lock Washer, 1"
	10117	Hex Nut, 1"-8
3.	10017	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
4.	D2429	Spindle
5.	D2431	Lock Bolt
	10118	Lock Washer, 1"
6.	D1563	Mud Guard
7.	10641	Grease Fitting, 1/8" NPT



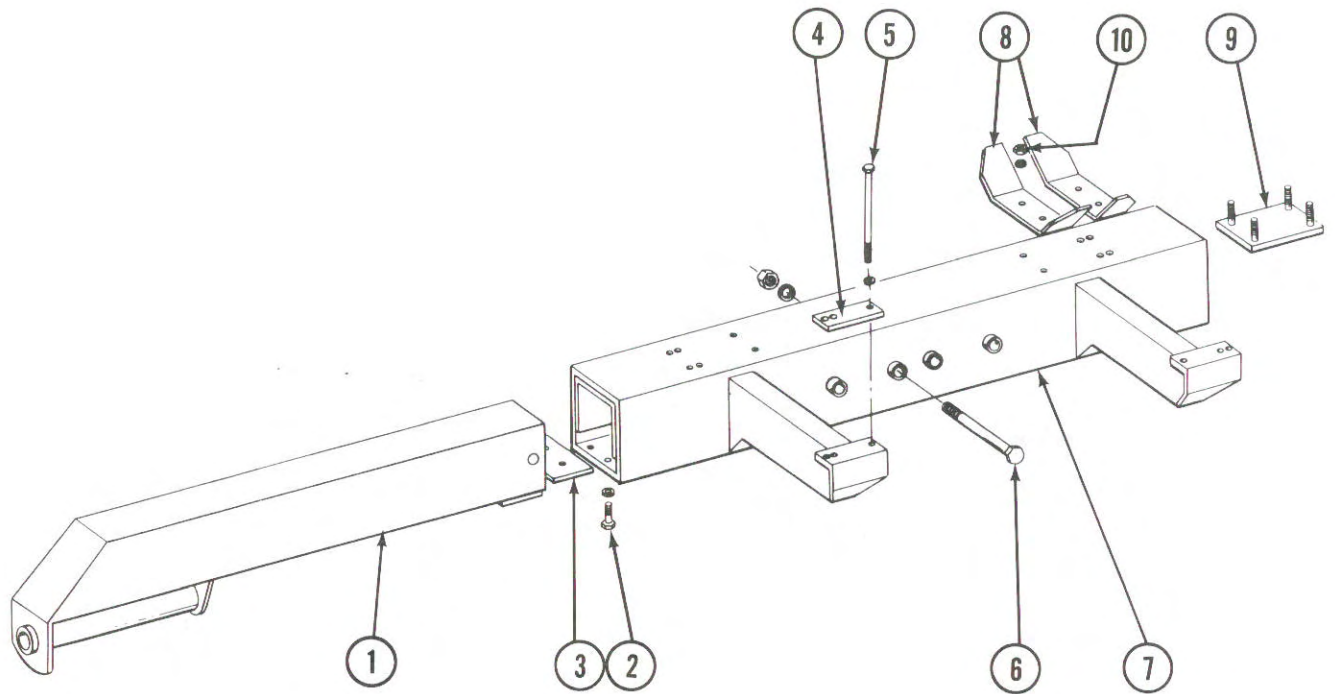
ITEM PART NO. DESCRIPTION

1.	10376	Hex Head Cap Screw, 5/16"-18 x 3/4"
2.	D1529	Cap
3.	D1536	Seal, Hub Cap
4.	10070	Slotted Hex Nut, 1 1/4"-12 UNF
5.	10460	Cotter Pin, 1/4"x 2"
6.	10139	Washer, 1 1/4"
7.	A0705	Bearing, Outer
8.	A0703	Hub W/Cups and Studs (10 Bolt)
	R0322	Cup, Outer
	R0323	Cup, Inner
	R0257	Stud Bolt, 3/4"-16 x 2 1/2"
9.	R0256	Hex Lug Nut, 3/4"-16
10.	A0779	Bearing, Inner
11.	A0706	Seal
12.	D1330	Tire, 23.1"x 26", 8 Ply
13.	D1531	Tube, 23.1"x 26"
14.	D2411	Plug, Rubber (Not Shown)
15.	A0461	Wheel, DW 20"x 26"
16.	D1528	Nut, Nylon
17.	D1527	Valve Stem (Includes Core and Cap)



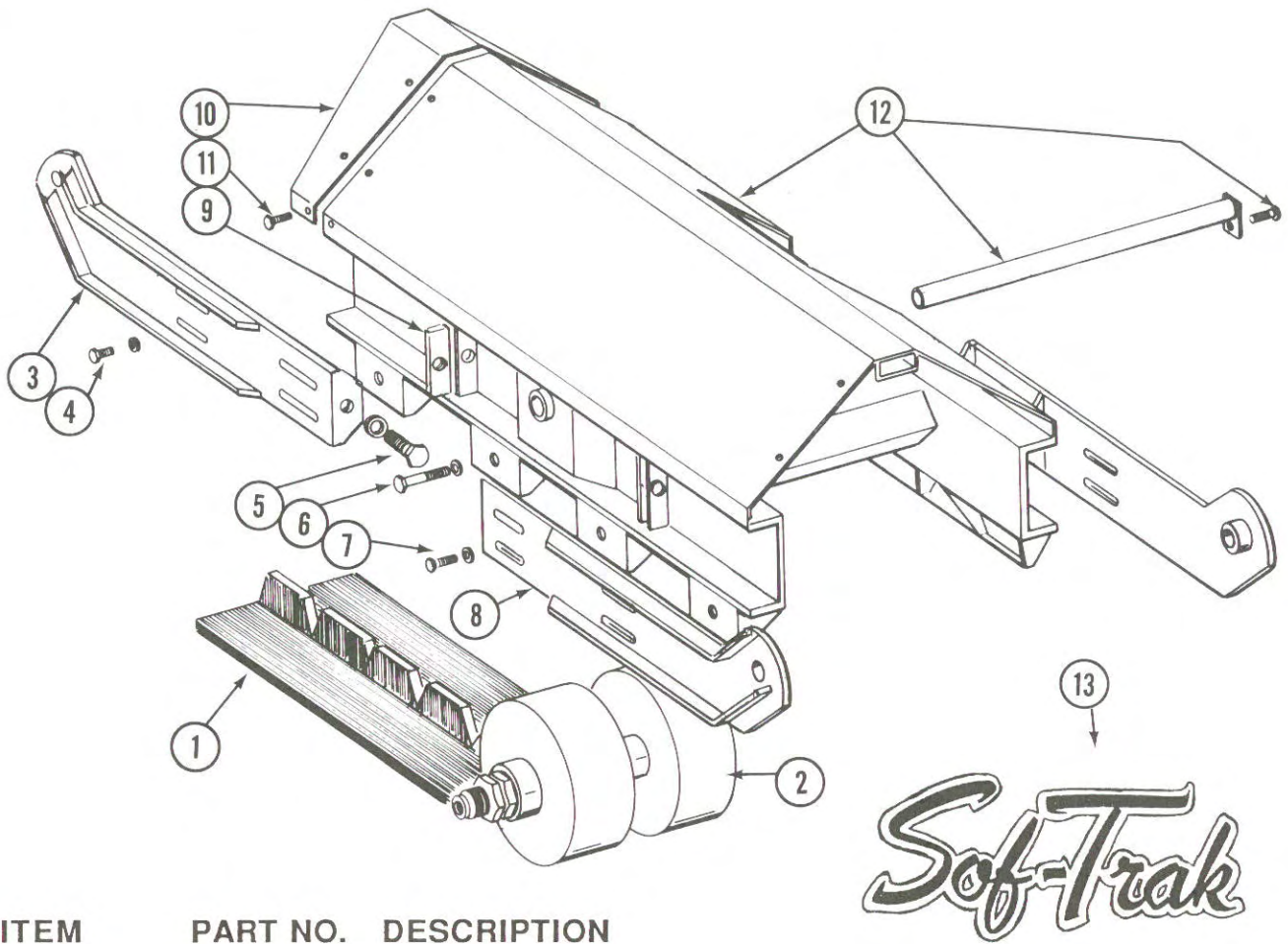
ITEM	PART NO.	DESCRIPTION
1.	10054	Hex Head Cap Screw, 5/16"-18 x 1/2"
2.	D1360	Cap
3.	D1359	Seal
4.	10726	Slotted Hex Nut, 2"-12
5.	10471	Cotter Pin, 3/8"x 2 1/2"
6.	10198	Washer, 2"
7.	A0530	Bearing, Outer
8.	10625	Flange Nut, 3/4"-16
9.	A0529	Hub W/Cups and Stud Bolts (10 Bolt)
	R0192	Cup, Outer
	R0191	Cup, Inner
	R0257	Stud Bolt, 3/4"-16 x 2 1/2"
10.	A0531	Bearing, Inner
11.	A0532	Seal
12.	A5168	Valve Stem (Not Shown)
13.	A5447	Brass Plug (Not Shown)
14.	D4093	Tire, 24.5"x 32", 12 Ply, Used on 640
	D4092	Tire, 30.5"x 32", 12 Ply, Used on 840 and 640 W/120" Axle, Optional 1240
	D1405	Tire, 24.5" x 32, 16 ply, used on 1240
15.	A0445	Wheel, 27"x 32", Used on 840 and 640 W/120" Axle. Optional 1240
	A0446	Wheel, 21"x 32", Used on 640 and 1240

TRACK AXLE



ITEM	PART NO.	DESCRIPTION
1.	A5489	Axle Stub W/Grease Fittings
	10641	Grease Fitting, 1/8" NPT
2.	10014	Hex Head Cap Screw, 1/2"-13 x 1"
	10228	Lock Washer, 1/2"
3.	D7538	Shim, 5" x 8"
4.	D7529	Bar, 3" x 7"
5.	10477	Hex Head Cap Screw, 3/4"-10 x 10"
	10231	Lock Washer, 3/4"
6.	10540	Hex Head Cap Screw, 1"-8 x 12"
	10118	Lock Washer, 1"
	10117	Hex Nut, 1"-8
7.	A5488	Center Axle
8.		Part Of Wagon Frame
9.	A5535	Mount, 7" x 11", 840
	A5534	Mount, 7" x 10", 640
10.	10231	Lock Washer, 3/4"
	10105	Hex Nut, 3/4"-10

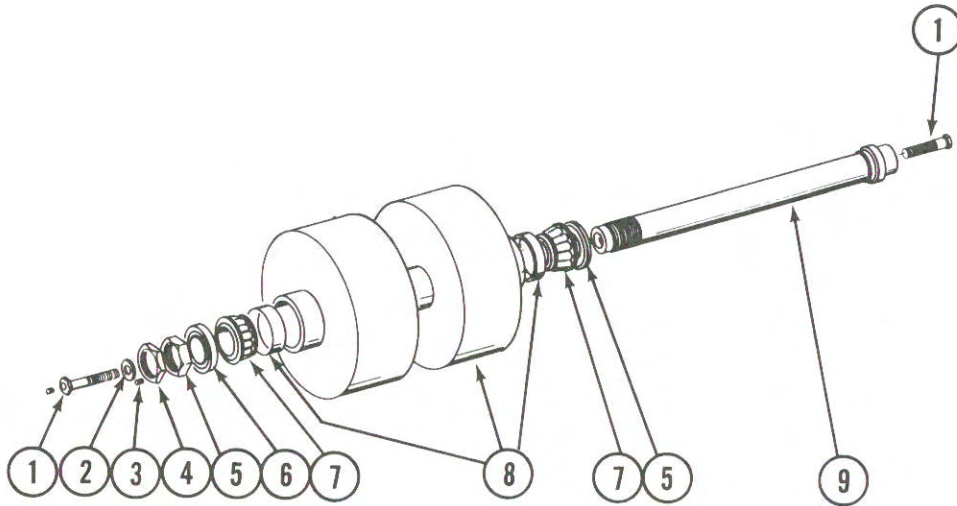
TRACK AND CARRIAGE



Soft-Trak

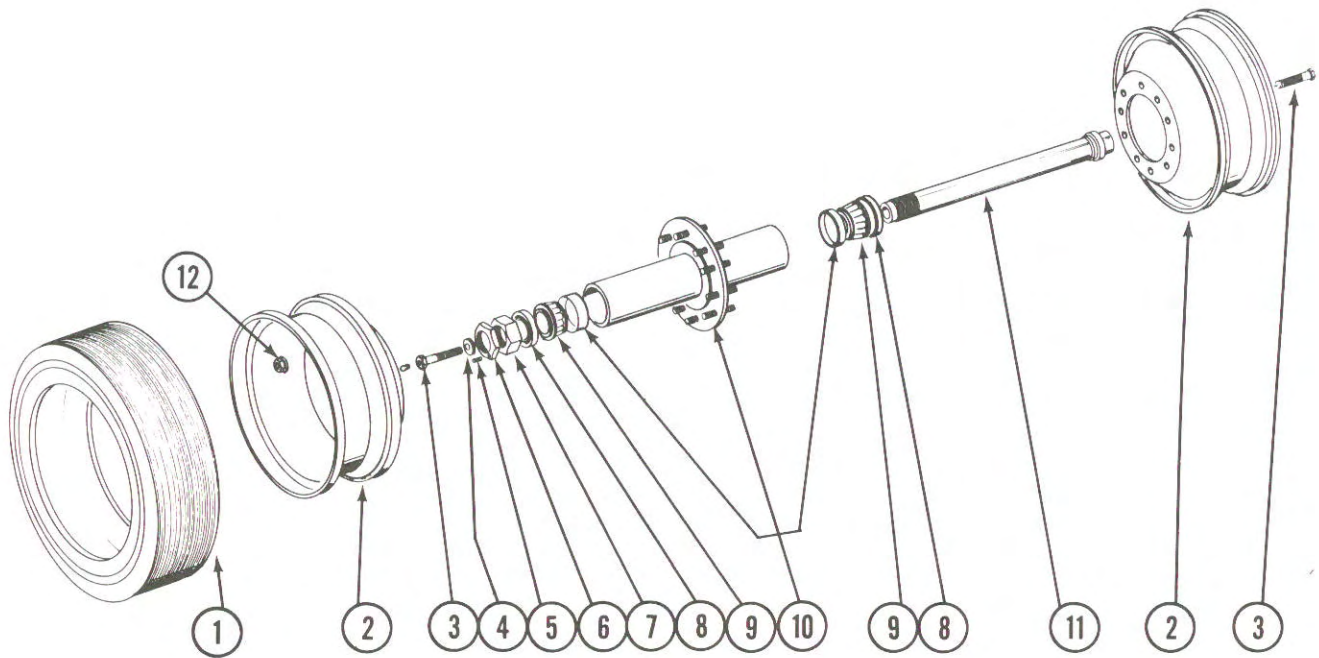
ITEM	PART NO.	DESCRIPTION
1.	D7096	Rubber Track
2.		See "Track Midwheel"
3.	A5477	Sidebar, L.H.
4.	10537	Hex Head Cap Screw, 3/4"-16 x 2 1/2"
	10218	Washer, 3/4" USS
	10231	Lock Washer, 3/4"
	10327	Hex Nut, 3/4"-16
5.	10539	Hex Head Adjusting Bolt, 1"-14 x 7"
	10082	Washer, 1" SAE
6.		See "Track Midwheel"
7.	10538	Hex Head Cap Screw, 3/4"-16 x 4 1/2"
	10218	Washer, 3/4" USS
	10231	Lock Washer, 3/4"
	10327	Hex Nut, 3/4"-16
8.	A5476	Sidebar, R.H.
9.	D7584	Tap Block
10.	D7521	Mud Scraper
11.	10014	Hex Head Cap Screw, 1/2"-13 x 1"
	10216	Washer, 1/2" USS
	10228	Lock Washer, 1/2"
	10102	Hex Nut, 1/2"-13
12.	A5481	Track And Carriage W/Pin
	A5514	Pin
	10005	Hex Head Cap Screw, 5/8"-11 x 1 3/4"
13.	7100-131	Decal

TRACK MIDWHEEL



ITEM	PART NO.	DESCRIPTION
1.	A5487	Bolt W/Grease Fitting, 1 1/4" x 3 1/2"
	10641	Grease Fitting, 1/8" NPT
2.	10236	Lock Washer, 1 1/4"
3.	10535	Set Screw, 3/8"-16 x 3/4"
4.	D7460	Jam Nut, 2 1/2"-12
5.	D7451	Stepped Nut, 2 1/2"-12
6.	D7452	Seal
7.	A0779	Cone
8.	A5486	Midwheel W/Cups
	R0323	Cup
9.	A4999	Spindle

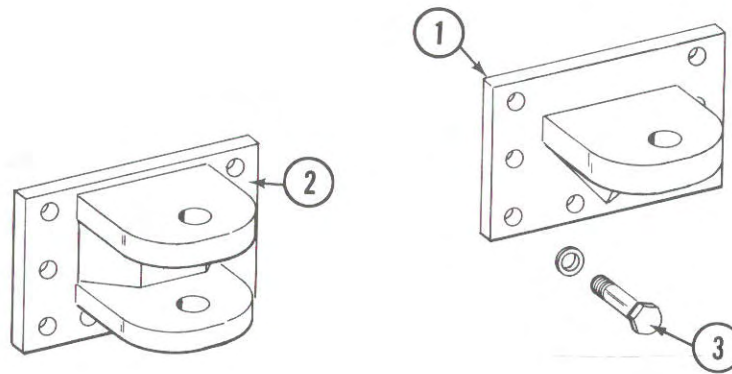
TRACK ENDWHEEL



ITEM	PART NO.	DESCRIPTION
1.	D7640	Tire, 8.25" x 20" NHSC 4/2
	A5574	Tube W/Insert
2.	A5490	Rim
3.	A5487	Bolt W/Grease Fitting, 1 1/4" x 3 1/2"
	10641	Grease Fitting, 1/8" NPT
4.	10236	Lock Washer, 1 1/4"
5.	10535	Set Screw, 3/8"-16 x 3/4"
6.	D7460	Jam Nut, 2 1/2"-12
7.	D7451	Stepped Nut, 2 1/2"-12
8.	D7452	Seal
9.	A0779	Cone
10.	A5484	Endwheel Hub W/Cups (10 Bolt) And Studs
	R0323	Cup
	D7489	Stud
11.	A4999	Spindle
12.	R0256	Flange Nut, 3/4"-16

HITCH CAP

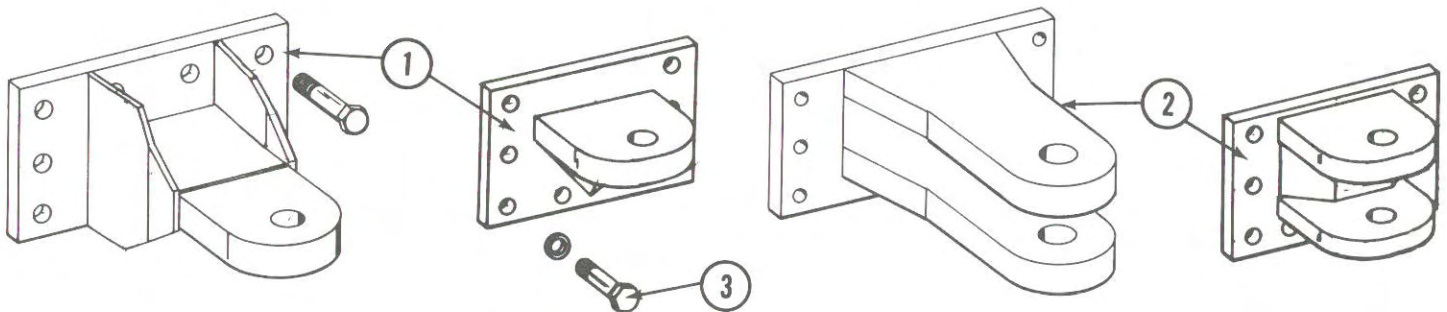
640



ITEM	PART NO.	DESCRIPTION
1.	A4157	Hitch Cap, Single Tang
2.	A4153	Hitch Cap, Double Tang
3.	10437	Hex Head Cap Screw, 3/4"-10 x 2 1/2", Grade 8
	10231	Lock Washer, 3/4"
	10436	Hex Nut, 3/4"-10, Grade 8

HITCH CAP

840



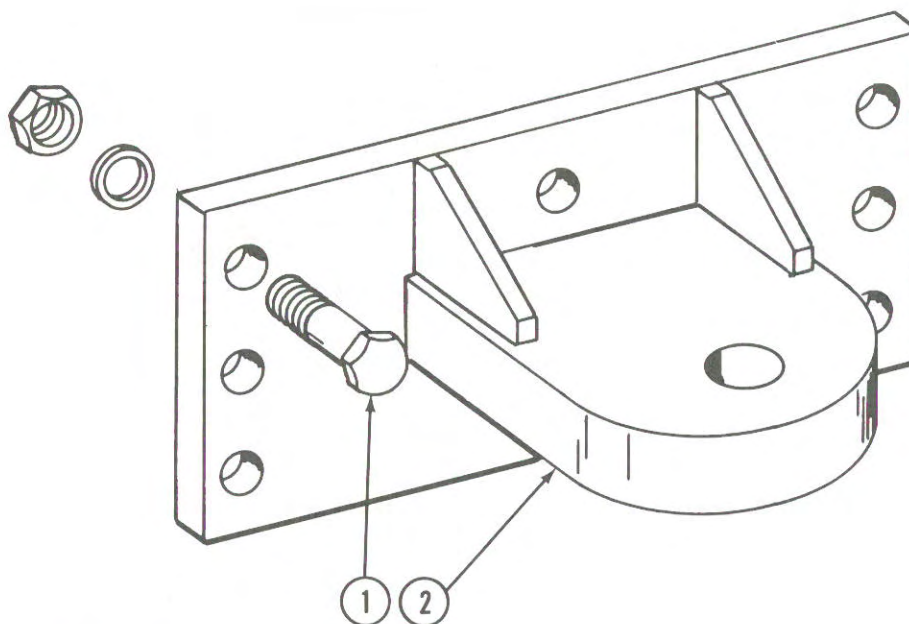
Style A

Style B

Style A

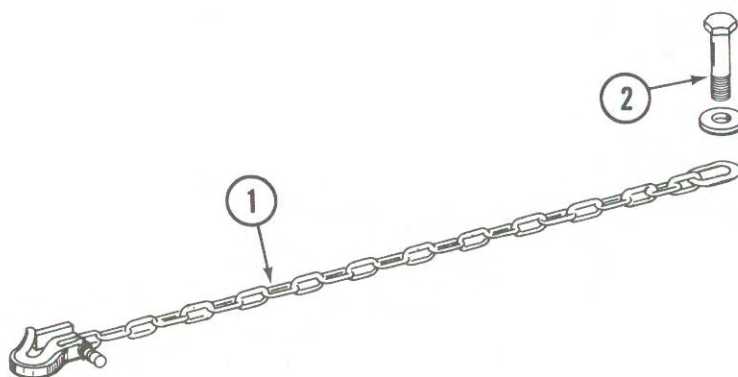
Style B

ITEM	PART NO.	DESCRIPTION
1.	A4270	Hitch Cap, Single Tang, Style A, 15 1/4" (Serial No. 2103-2142)
	A4206	Hitch Cap, Single Tang, Style B, 8 1/4" (Serial No. 2143-)
2.	A4271	Hitch Cap, Double Tang, Style A, 15 1/4" (Serial No. 2103-2142)
	A4214	Hitch Cap, Double Tang, Style B, 8 1/4" (Serial No. 2143-)
3.	10441	Hex Head Cap Screw, 7/8"-9 x 3", Grade 8
	10330	Lock Washer, 7/8"
	10442	Hex Nut, 7/8"-9

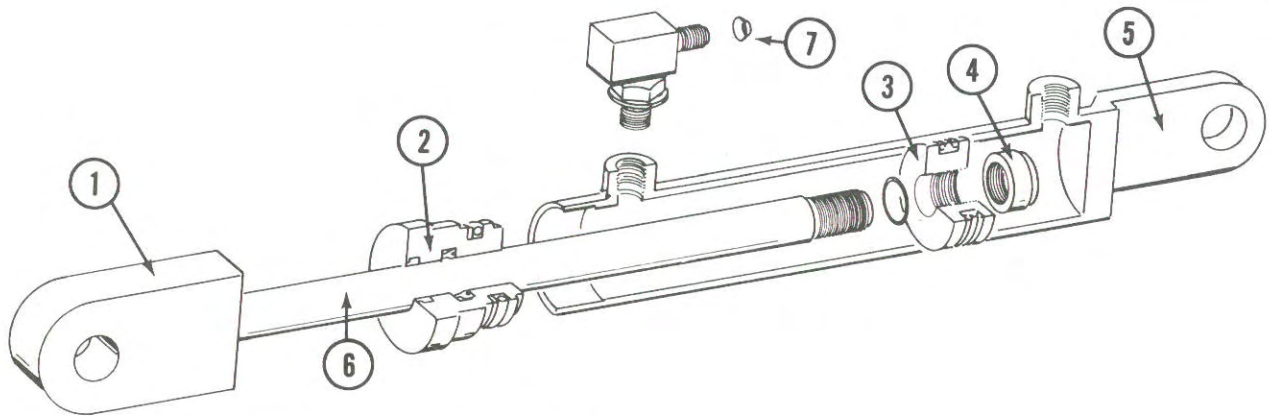


ITEM	PART NO.	DESCRIPTION
1.	10119	Hex Head Cap Screw, 1"-8 x 3"
	10118	Lock Washer, 1"
	10117	Hex Nut, 1"-8
2.	A1606	Hitch Cap, Single Tang

OPTIONAL SAFETY CHAIN

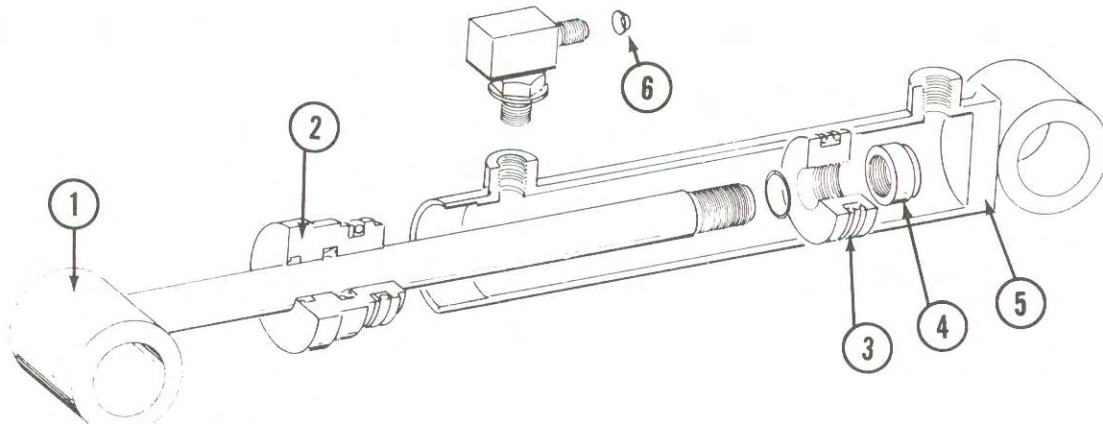


ITEM	PART NO.	DESCRIPTION
1.	A4774	Safety Chain
2.	10238	Hex Head Cap Screw, 1 1/4"-7 x 4"
	10139	Washer, 1 1/4" USS
	10236	Lock Washer, 1 1/4"
	10239	Hex Nut, 1 1/4"-7



ITEM	PART NO.	DESCRIPTION
1.	A5210	Clevis Assembly
2.	D5954	Gland
3.	D4525	Piston
4.	R0964	Lock Nut, 7/8"-14
5.	A4176	Barrel
6.	D6429	Rod
7.	D6323	Restrictor
A.	A4172	Cylinder Complete, 2 1/2"x 20" (Less Restrictor)
B.	R0963	Seal Kit, Includes: (1) T Seal, (2) O-Rings, (1) BU Ring, (1) U-Cup, (1) Wiper

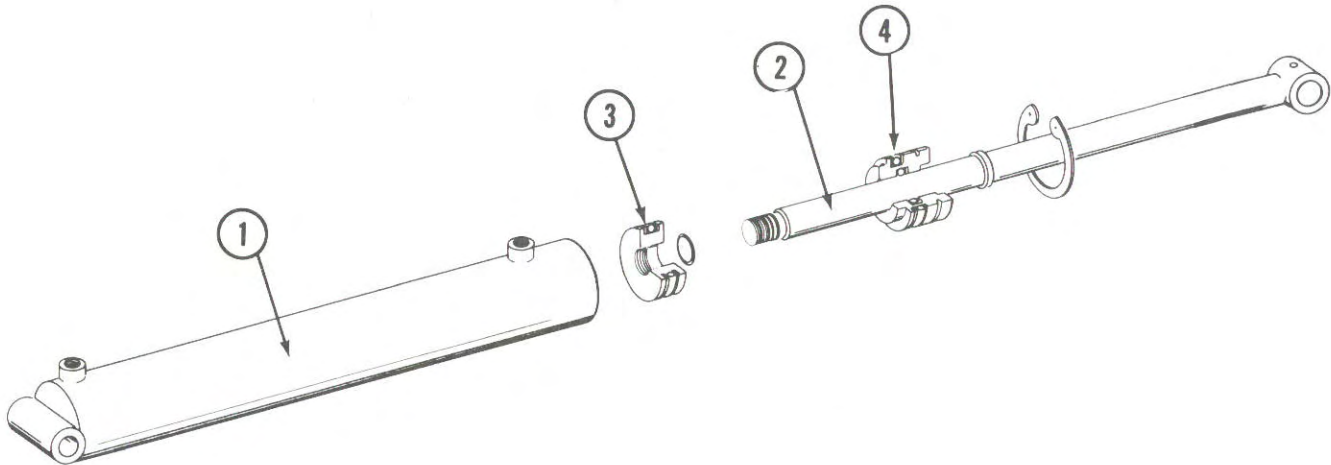
VERTICAL AUGER FOLD CYLINDER



ITEM	PART NO.	DESCRIPTION
1.	A4193	Rod Assembly
2.	D5954	Gland
3.	D4525	Piston
4.	R0964	Special Jam Nut
5.	A4192	Barrel
6.	D6323	Restrictor
A.	A4115	Cylinder Complete, 2 1/2"x 20 1/16" (Less Restrictor)
B.	R0963	Seal Kit, Includes: (1) T Seal, (2) O-Rings, (1) BU Ring, (1) U-Cup, (1) Wiper

VERTICAL AUGER FOLD CYLINDER

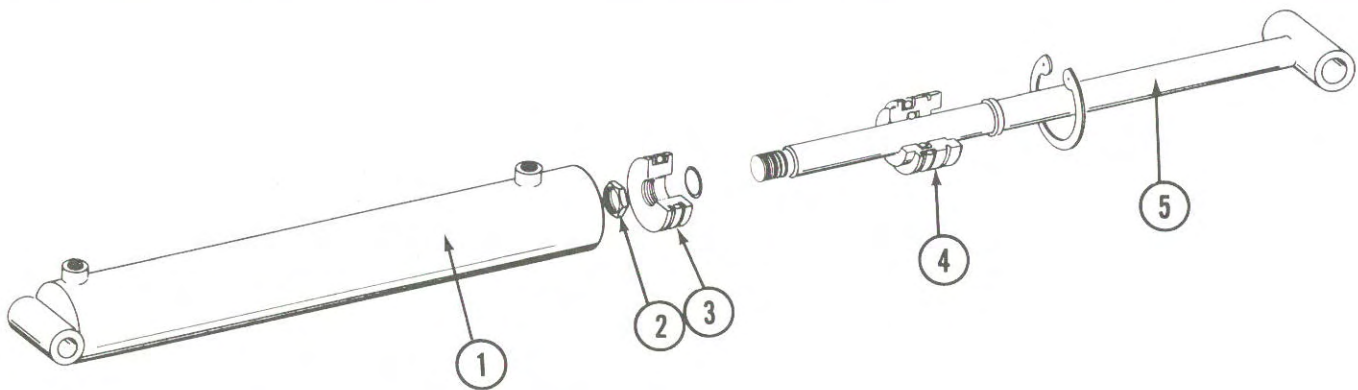
840/1240



ITEM	PART NO.	DESCRIPTION
1.	R0112	Barrel
2.	R0113	Rod Assembly
3.	R0115	Piston
4.	R0371	Gland
A.	A0234	Cylinder Complete, 3 1/2"x 20"
B.	R0116	Seal Kit, Includes: (4) O-Rings, (4) BU Rings, (1) Wiper, (1) Snap Ring

VERTICAL AUGER FOLD CYLINDER

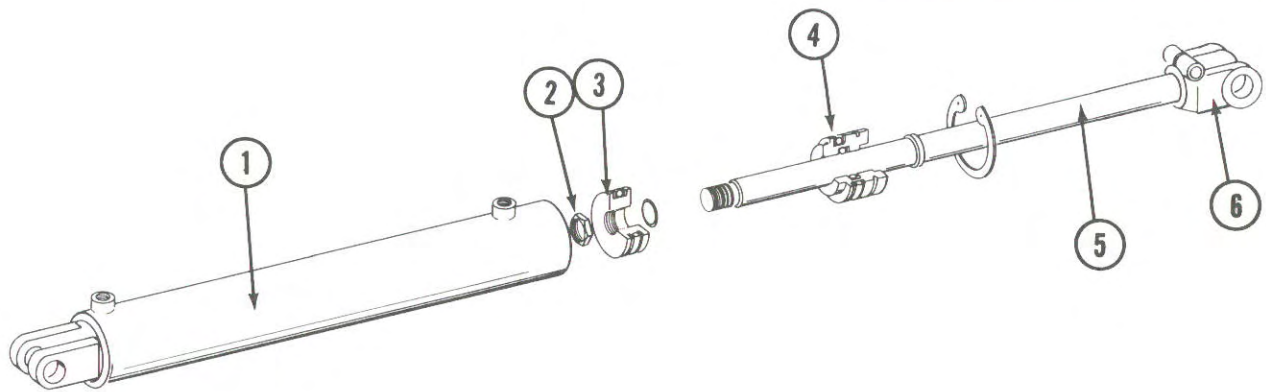
840/1240



ITEM	PART NO.	DESCRIPTION
1.	A3684	Barrel
2.	10509	Hex Jam Nut, 1 1/4"-12 UNF
3.	D4521	Piston
4.	D4509	Gland
5.	A3683	Rod Assembly
A.	A3667	Cylinder Complete, 3 1/2"x 20"
B.	R0778	Seal Kit, Includes: (2) O-Rings, (2) BU Rings, (1) Retaining Ring, (1) Wiper, (1) Polypak, (1) T-Seal W/BU

GRAIN FLOW CONTROL GATE CYLINDER

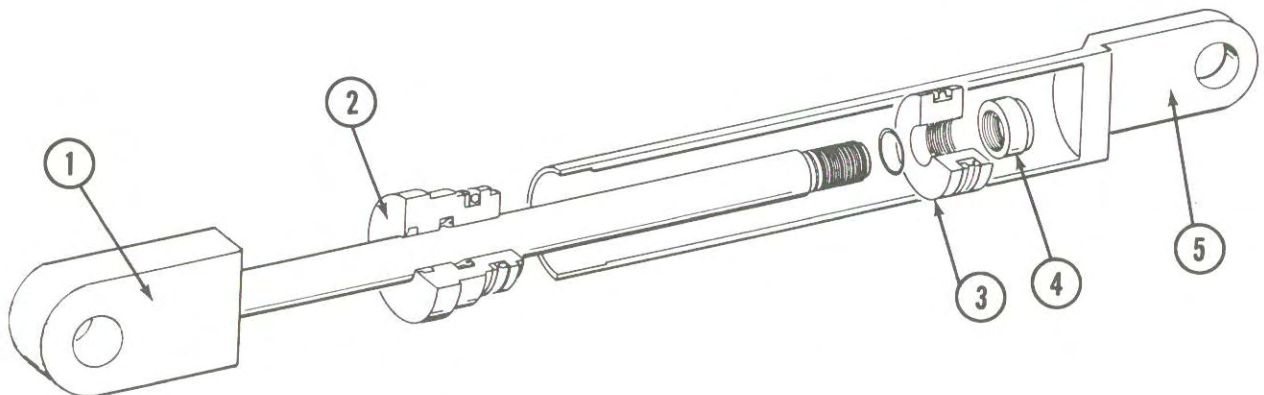
440(OPTIONAL)/640



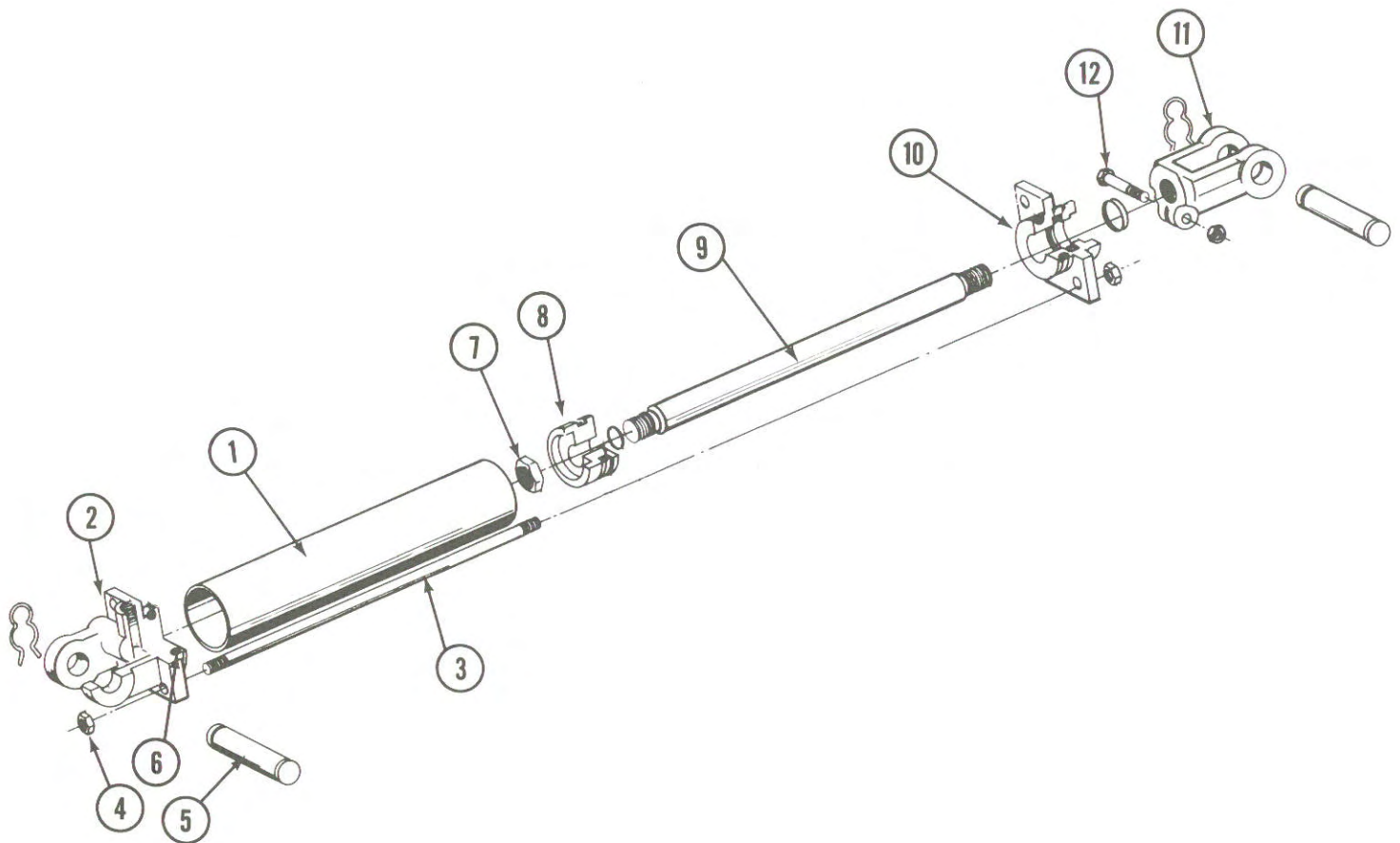
ITEM	PART NO.	DESCRIPTION
1.	R0904	Barrel
2.	R0909	Lock Nut
3.	R0906	Piston
4.	R0907	Gland
5.	R0905	Rod
6.	R0908	Clevis Assembly
A.	A4097	Cylinder Complete, 2"x 8"
B.	R0910	Seal Kit, Includes: (2) O-Rings, (1) BU Ring, (1) Retaining Ring (1) Wiper, (1) Seal, (1) U-Cup

GRAIN FLOW CONTROL GATE CYLINDER

440(OPTIONAL)/640

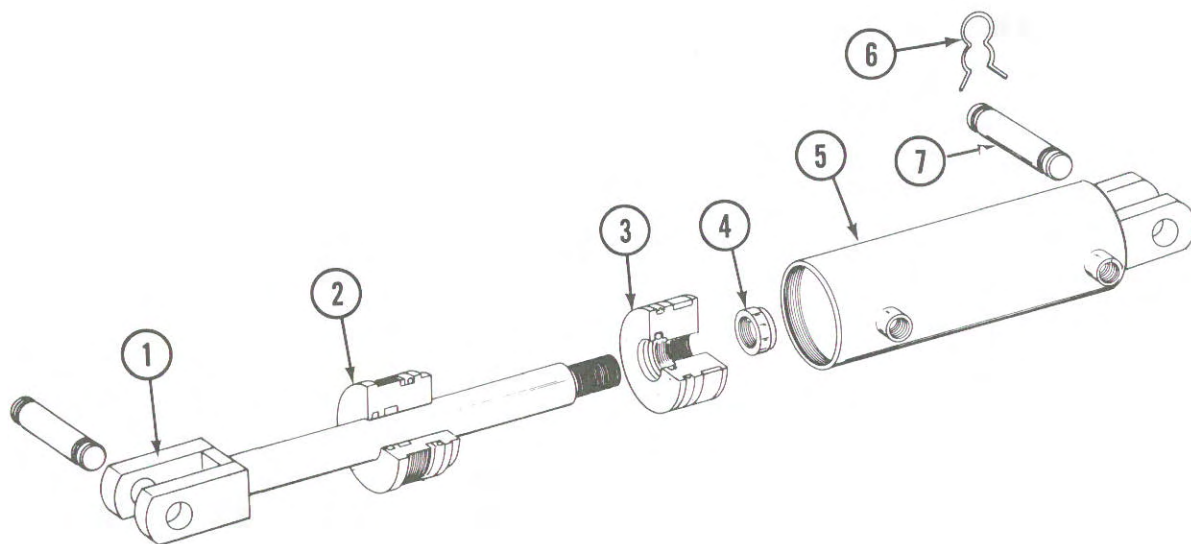


ITEM	PART NO.	DESCRIPTION
1.	A4188	Rod Assembly
2.	D5949	Gland
3.	D4632	Piston
4.	R0959	Lock Nut, 3/4"-16
5.	A4187	Barrel
A.	A4129	Cylinder Complete, 2"x 8"
B.	R0927	Seal Kit, Includes: (1) T Seal, (2) O-Rings, (1) BU Ring (1) U-Cup, (1) Wiper

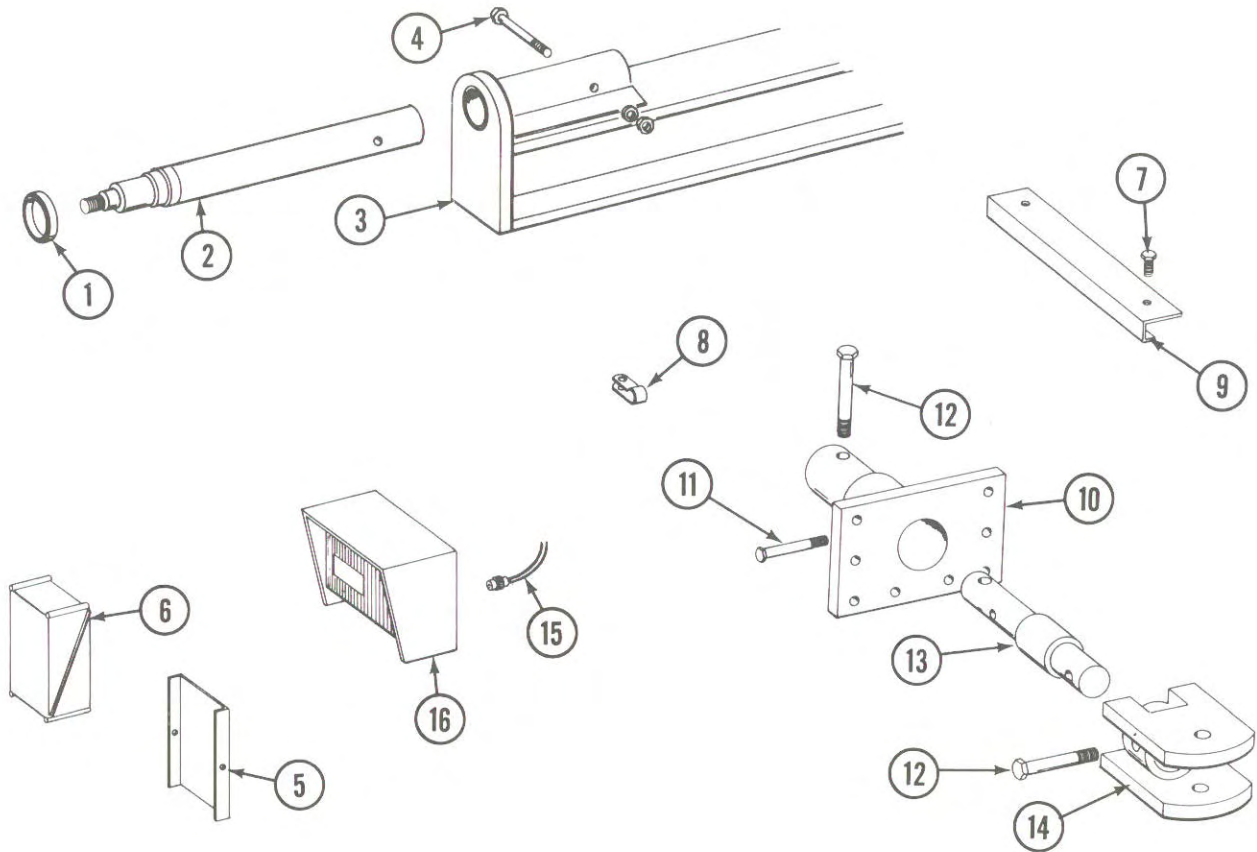


ITEM	PART NO.	DESCRIPTION
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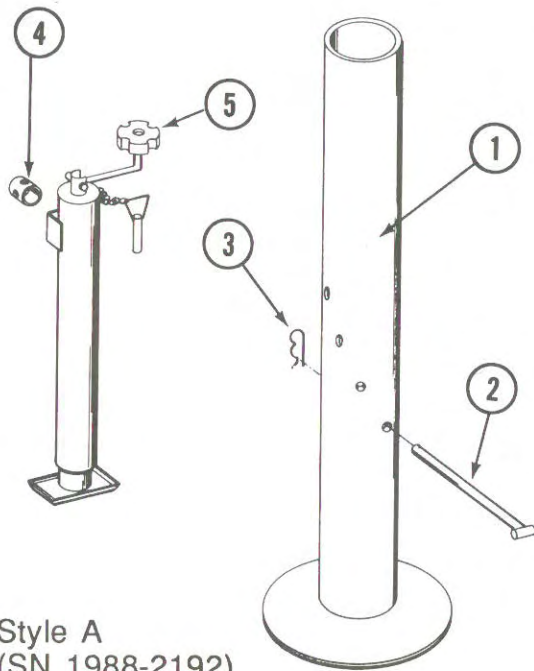
1.	R0163	Barrel
2.	R0167	Clevis, Bottom
3.	R0168	Tie Rod
4.	R0171	Hex Nut, 7/16"-14
5.	R0180	Clevis Pin W/Hair Pin Clip
	R0193	Hair Pin Clip
6.	10170	Pipe Plug, 1/2"
7.	R0170	Hex Jam Nut, 7/8"-14 NF
8.	R0166	Piston
9.	R0164	Rod
10.	R0165	Gland
11.	R0169	Clevis
12.	10047	Hex Head Cap Screw, 3/8"-16 x 1 3/4"
	10101	Hex Nut, 3/8"-16
A.	A0281	Cylinder Complete W/Pins and Clips, 2 1/2"x 10"
B.	R0156	Seal Kit, Includes: (5) O-Rings, (3) BU Washers, (1) Rod Wiper



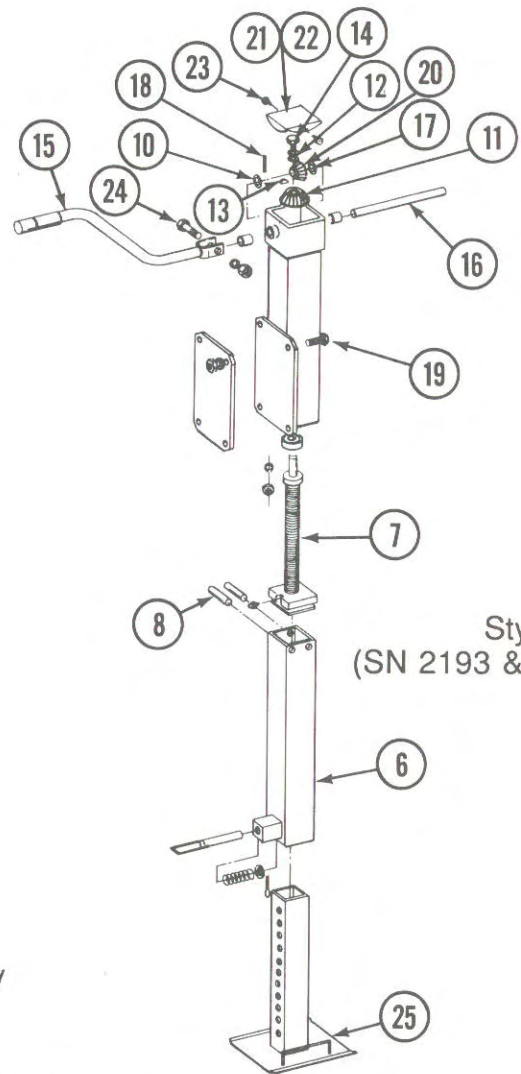
ITEM	PART NO.	DESCRIPTION
1.	A4757	Rod
2.	D5954	Gland
3.	D5956	Piston
4.	R0986	Thin Nut, 1"-14
5.	A4756	Barrel
6.	R0193	Hair Pin Clip
7.	R0962	Pin
A.	A4255	Cylinder Complete Less Pins and Clips, 2 1/2" x 10"
B.	R0930	Seal Kit, Includes: (1) Wear Ring, (1) "T" Seal, (2) O-Rings, (1) U-Cup, (1) BU Ring, (1) Wiper



ITEM	PART NO.	DESCRIPTION
1.	D6996	Spacer Ring
2.	A4283	Spindle
3.	A4676	Axle, 96"
	A4678	Axle, 107 1/2"
4.	10011	Hex Head Cap Screw, 5/8"-11 x 5 1/2", Grade 5
	10107	Lock Nut, 5/8"-11
5.	D7008	Cover
6.	A4682	Scale Kit and Junction Box
7.	10522	Screw, 1/4"-14 x 3/4"
8.	D6291	Insulated Clamp
9.	D7009	Cover, 48"
	D7138	Cover, 28"
	D7139	Cover, 20"
10.	A4679	Hitch Plate, 640
	A4680	Hitch Plate, 840
11.	10050	Hex Head Cap Screw, 3/4"-10 x 5", Grade 5
	10112	Lock Nut, 3/4"-10
12.	10263	Hex Head Cap Screw, 1"-8 x 5", Grade 5
	10396	Lock Nut, 1"-8
13.	A4681	Weigh Beam
14.	A4677	Clevis
15.	A4683	Cable Kit
16.	7013X	Indicator

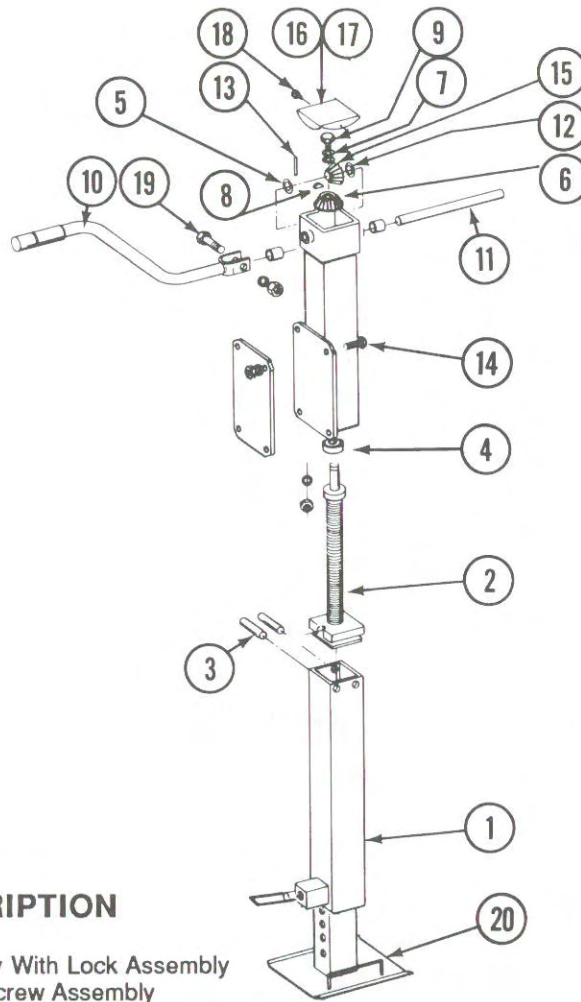


Style A
(SN 1988-2192)

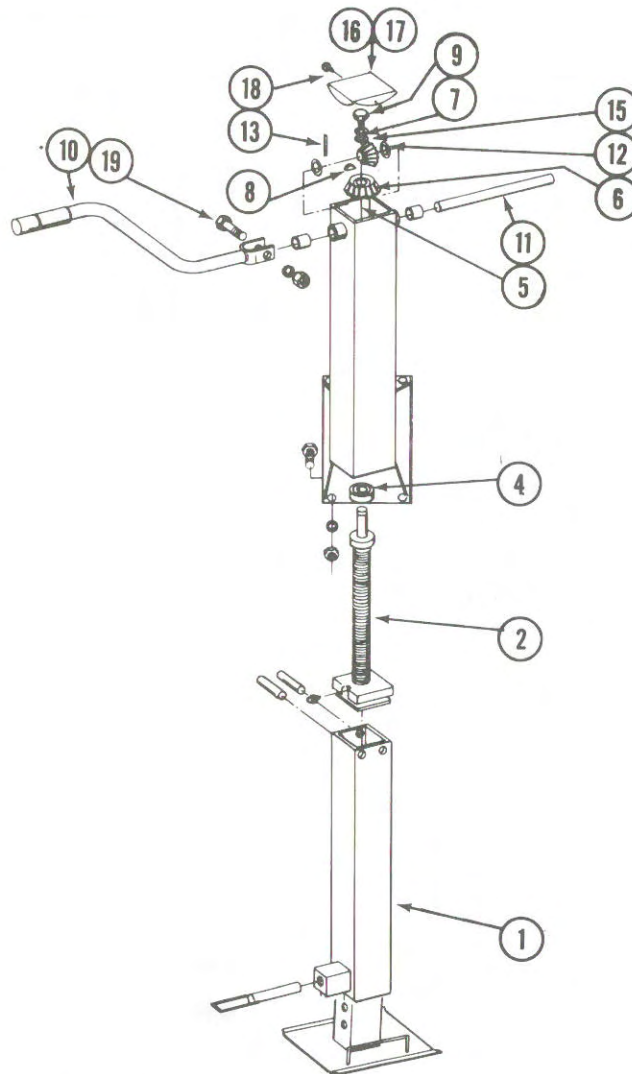


Style B
(SN 2193 & On)

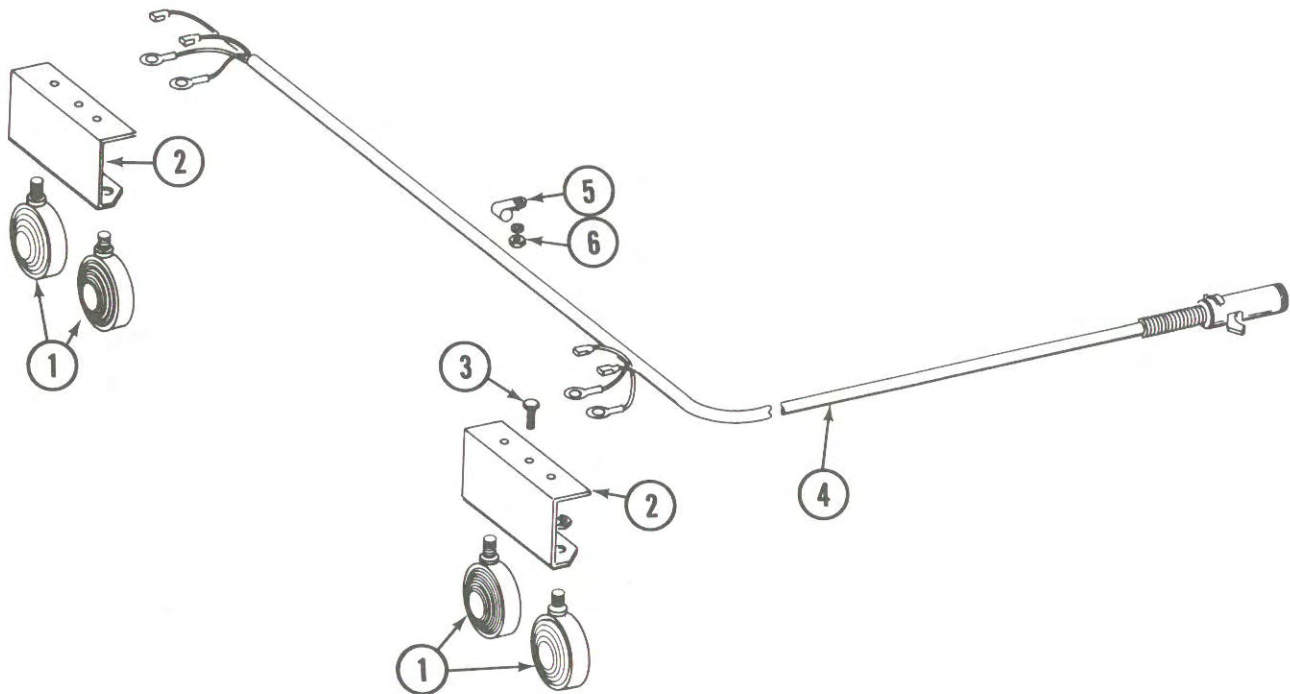
ITEM	PART NO.	DESCRIPTION
1.	A0407	Jack Stand
2.	A0741	Pin
3.	10671	Hair Pin Clip, No.6
4.	D1254	Bracket, Jack Swivel
5.	4100-02	Jack Assembly
	R0255	Hammer Blow Pin Kit
6.	R1009	Secondary With Lock Assembly
7.	R0974	Nut and Screw Assembly
8.	R0976	Pin
9.	R0691	Bearing
10.	R0692	Machine Washer, 1" x 2" x 18 Gauge
11.	R0693	Gear, Horizontal, 18 Tooth
12.	R0702	Retaining Washer, 1/2"
13.	R0694	Key
14.	R0703	Hex Head Cap Screw
15.	D1350	Handle
16.	R0977	Shaft
17.	R0704	Snap Ring
18.	R0697	Key
19.	10005	Hex Head Cap Screw, 5/8"-11 x 1 3/4"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8"-11
20.	R0698	Gear, Vertical, 12 Tooth
21.	R0699	Seal
22.	R0700	Lid
23.	R0701	Screw
24.	10049	Hex Head Cap Screw, 3/8"-16 x 2 1/2"
	10210	Washer, 3/8" USS
	10108	Lock Nut, 3/8"-16
25.	R1008	Drop Tube
A.	A4670	Jack Assembly Complete, Style B(Items 6-24)



ITEM	PART NO.	DESCRIPTION
1.	R1009	Secondary With Lock Assembly
2.	R0974	Nut and Screw Assembly
3.	R0976	Pin
4.	R0691	Bearing
5.	R0692	Machine Washer, 1" x 2" x 18 Gauge
6.	R0693	Gear, Horizontal, 18 Tooth
7.	R0702	Retaining Washer, 1/2"
8.	R0694	Key
9.	R0703	Hex Head Cap Screw
10.	D1350	Handle
11.	R0977	Shaft
12.	R0704	Snap Ring
13.	R0697	Key
14.	10005	Hex Head Cap Screw, 5/8"-11 x 1 3/4"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8"-11
15.	R0698	Gear, Vertical, 12 Tooth
16.	R0699	Seal
17.	R0700	Lid
18.	R0701	Screw
19.	10049	Hex Head Cap Screw, 3/8"-16 x 2 1/2"
	10210	Washer, 3/8" USS
	10108	Lock Nut, 3/8"-16
20.	R1008	Drop Tube
A.	A4191	Jack Assembly Complete (SN 2023-2142)
B.	A4593	Jack Assembly Complete (SN 2143 & On)



ITEM	PART NO.	DESCRIPTION
1.	R0688	Tube Assembly, Lower
2.	R0689	Nut and Screw Assembly
3.	R0690	Pin
4.	R0691	Bearing
5.	R0692	Machine Washer, 1"x 2"x 18 Gauge
6.	R0693	Gear, Horizontal, 18 Tooth
7.	R0702	Retaining Washer, 1/2"
8.	R0694	Key
9.	R0703	Hex Head Cap Screw
10.	D1350	Handle
11.	R0696	Shaft
12.	R0704	Snap Ring
13.	R0697	Key
14.	10005	Hex Head Cap Screw, 5/8"-11 x 1 3/4"
	10230	Lock Washer, 5/8"
	10104	Hex Nut, 5/8"-11
15.	R0698	Gear, Vertical, 12 Tooth
16.	R0699	Seal
17.	R0700	Lid
18.	R0701	Screw
19.	10049	Hex Head Cap Screw, 3/8"-16 x 2 1/2"
	10210	Washer, 3/8"USS
	10108	Lock Nut, 3/8"-16
A.	A0505	Jack Assembly Complete W/Handle



ITEM	PART NO.	DESCRIPTION
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- | | | |
|----|---------------|--|
| 1. | A4122 | Single Red Light Assembly Complete W/Female Terminal |
| | A4123 | Double Amber Light Assembly Complete W/Male Terminal |
| | R0968 | Bulb, No.1156 |
| | R0970 | Red Lens |
| | R0969 | Amber Lens |
| | 10289 | Hex Nut, 1/2"-20 |
| | 10525 | Star Washer, 1/2" |
| | Not Available | Rubber Washer |
| | R0971 | O-Ring Gasket |
| | R0972 | Pigtail |

- | | | | |
|----|-------|----------------------------------|----------------------------------|
| 2. | D6273 | Mount | |
| | 3. | 10001 | Hex Head Cap Screw, 3/8"-16 x 1" |
| | | 10229 | Lock Washer, 3/8" |
| 4. | 10101 | Hex Nut, 3/8"-16 | |
| | A4121 | Wiring Harness Assembly, 440/640 | |
| | A4127 | Wiring Harness Assembly, 840 | |
| 5. | A4128 | Wiring Harness Assembly, 1240 | |
| | D6291 | Clamp | |
| 6. | 10229 | Lock Washer, 3/8" | |
| | 10101 | Hex Nut, 3/8"-16 | |

- | | | |
|----|-------|--|
| A. | 1K155 | Light Package, 440/640, Includes: (4) 10001, (13) 10101, (13) 10229, (1) A4121, (2) A4122, (2) A4123, (4) D1512, (2) D6273, (11) D6291 |
| | 1K156 | Light Package, 840, Includes: (4) 10001, (13) 10101, (13) 10229, (2) A4122, (2) A4123, (1) A4127, (4) D1512, (2) D6273, (11) D6291 |
| | 1K157 | Light Package, 1240, Includes: (4) 10001, (15) 10101, (15) 10229, (2) A4122, (2) A4123, (1) A4128, (4) D1512, (2) D6273, (11) D6291 |



DECALS, REFLECTORS AND TIE STRAPS

! WARNING !

ALWAYS LOWER PARKING
STAND BEFORE USING
UTILITY JACK.

1

GRAIN FLOW CONTROL GATE
INDICATOR

RETRACTED  CLOSED	EXTENDED  OPEN
--	---

7100-79


2

! CAUTION

1. Read and understand the Operator's Manual.
2. Stop the tractor engine before leaving the operator's platform.
3. Keep riders off the machine.
4. Make certain everyone is clear of the machine before starting the tractor engine and operating.
5. Keep all shields in place.
6. Never lubricate, adjust, unclog or service the machine with tractor engine running.
7. Wait for all movement to stop before servicing.
8. Keep hands, feet and clothing away from moving parts.
9. Use flashing warning lights when operating on highways except when prohibited by law.

3

! DANGER



ROTATING DRIVE LINE
DEATH CAN RESULT FROM ENTANGLEMENT
KEEP PEOPLE AND CLOTHING WELL CLEAR

DO NOT OPERATE WITHOUT:

- DRIVE LINE GUARDS
- INPUT SHAFT GUARDS
- TRACTOR MASTER SHIELD
- U-JOINTS LOCKED TO TRACTOR AND IMPLEMENT SHAFTS

WEASLER A 7122 B

6

4 **KINZE**

! WARNING

TOW ONLY WITH
FARM TRACTOR.

5

! WARNING !

NEVER OPERATE PTO SHAFT
ABOVE 1000 PTO RPM.
NEVER RUN WAGON AUGERS
AT FULL RPM WHEN EMPTY.

7100-79

7

! WARNING !

NEVER OPERATE WAGON
WHEN INSPECTION COVER
IS REMOVED.

7100-80

8

! DANGER

HYDRAULIC FOLDING AUGER

FAILURE TO HEED THIS
WARNING MAY RESULT
IN PERSONAL INJURY
OR DEATH.

KEEP CLOTHING, YOURSELF
AND OTHERS WELL CLEAR
WHEN FOLDING AND
UNFOLDING AUGER.

7100-81

9

! DANGER

FAILURE TO HEED THESE WARNINGS MAY RESULT
IN PERSONAL INJURY OR DEATH.

NEVER ALLOW ANYONE ON OR IN WAGON WHILE
OPERATING. ALWAYS UNHOOK WAGON FROM
TRACTOR WHEN PERFORMING REPAIRS INSIDE
OF WAGON. ALL NORMAL MAINTENANCE CAN
BE PERFORMED WITHOUT CLIMBING INSIDE OF
WAGON.

WAGON IS INTENDED FOR FIELD USE ONLY.
TOW ONLY WITH FARM TRACTOR. ALWAYS
OBEY ALL LAWS AND LOAD LIMITS WHEN
TRANSPORTING.

7100-82

10

! DANGER

- ROTATING AUGER -
NEVER OPEN OR CLOSE WITH
AUGER RUNNING.
WHEN OPERATING DUMP DOOR
KEEP CLOTHING, YOURSELF
AND OTHERS WELL CLEAR.

11

DECALS, REFLECTORS AND TIE STRAPS

INSTRUCTION

TIGHTEN WHEEL NUTS TO 425 FOOT-POUNDS TORQUE AND CHECK PERIODICALLY. MAINTAIN TIRE PRESSURE AT 35 PSI. LUBRICATE AUGER HINGE, PTO SHAFT AND DRIVE CHAINS DAILY. SEE OPERATORS MANUAL FOR ADDITIONAL MAINTENANCE TO BE PERFORMED ANNUALLY.

7100-85

12

! DANGER



SHIELD MISSING
DO NOT OPERATE

! DANGER



SHIELD MISSING
DO NOT OPERATE

! DANGER

13

14

! WARNING !

THIS MACHINE HAS BEEN DESIGNED AND BUILT WITH YOUR SAFETY IN MIND. ANY ALTERATION TO THE DESIGN OR CONSTRUCTION MAY CREATE SAFETY HAZARDS. DO NOT MAKE ANY ALTERATIONS OR CHANGES TO THE EQUIPMENT, BUT IF ANY ALTERATIONS OR CHANGES ARE MADE YOU MUST FOLLOW ALL APPROPRIATE SAFETY STANDARDS AND PRACTICE TO PROTECT YOU AND OTHERS NEAR THIS MACHINE FROM INJURY.


7100-90

640 16

840 17

440 19

1240 20

WEEKLY

21



DAILY

22

23

! CAUTION

WINDOWS GIVE ONLY A LIMITED VIEW OF WHAT IS BEHIND THE WAGON. ALWAYS CHECK CAREFULLY, INCLUDING BLIND SPOTS, BEFORE BACKING OR TURNING WAGON.

7100-112

! CAUTION



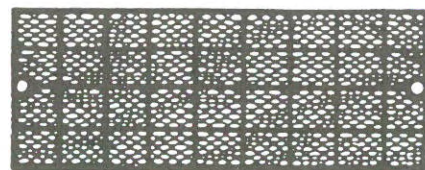
SLEEVE
NUT

CHAIN IDLER SPRING ADJUSTMENT NUTS MUST NOT BE OVERTIGHTENED. SLEEVE AROUND SPRING MUST ALWAYS TURN FREELY BY HAND AFTER NUT IS TIGHTENED. IF SLEEVE DOES NOT TURN FREELY, LOOSEN ADJUSTMENT NUT UNTIL IT DOES.

7100-113

24

25



DECALS, REFLECTORS AND TIE STRAPS



26



28

! DANGER

SERIOUS INJURY OR DEATH
CAN RESULT FROM
CONTACT WITH ELECTRIC
LINES. USE CARE TO AVOID
CONTACT WITH ELECTRIC
LINES WHEN MOVING OR
OPERATING THIS MACHINE.

7100-117

29

INFLATE TO
35 MIN - 40 MAX PSI

7100-119

31

! CAUTION !

1. SHUT OFF PTO AND TRACTOR ENGINE.
2. OPEN BRASS VALVES LOCATED UNDER OILER TANK.
3. START TRACTOR ENGINE AND ENGAGE PTO AT IDLE FOR A SHORT TIME.
4. REMAIN ON/IN TRACTOR WHILE PTO IS RUNNING.
5. DISENGAGE PTO AND SHUT OFF TRACTOR ENGINE.
6. CLOSE BRASS VALVES LOCATED UNDER OILER TANK.

7100-118

30

! DANGER

Do Not Tow Loaded Wagons on Public Roads and Bridges.
If you must tow a loaded wagon on public roads and bridges:

1. Do not exceed 10 mph.
2. Check operator's manual for the loaded weight of the wagon.
3. Tow only on roads and bridges capable of carrying the loaded weight of the wagon.
4. Know and obey all laws and regulations.

7100-120

32

Electronic Scale

33

! DANGER
FLOWING GRAIN TRAPS
AND SUFFOCATES
VICTIM IN SECONDS!

NEVER PLAY IN OR ON THIS WAGON!

YOU CAN DIE IN SECONDS
IN FLOWING GRAIN!

Farm Safety For
"JUST KIDS"

7100-121

34

DECALS, REFLECTORS AND TIE STRAPS

ITEM	PART NO.	DESCRIPTION
1.	7100-10	Decal, Warning
2.	7100-19	Decal, Grain Flow Indicator
3.	7100-46	Decal, Caution
4.	7100-54	Decal, Kinze
5.	7100-56	Decal, Warning
6.	7100-67	Decal, Danger
7.	7100-79	Decal, Warning
8.	7100-80	Decal, Warning
9.	7100-81	Decal, Danger
10.	7100-82	Decal, Danger
11.	7100-142	Decal, Danger
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