

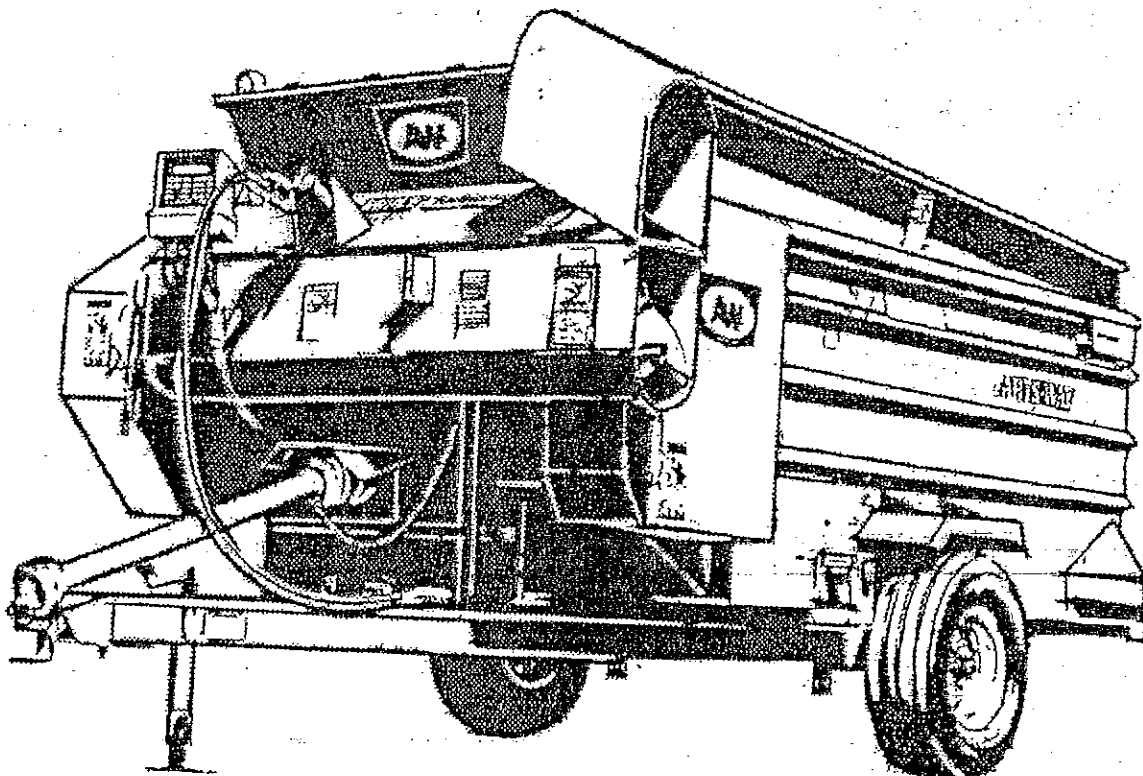
**ARTS-WAY**

# MODEL 800B & 850B SILAMIX

## OPERATORS & PARTS MANUAL

*First 800B 9-2-81 to Sept 89*

*SN- 00800B 3087 thru AW800B903944*



*First 850B 10-21-81 - Sept 89*


*SN- 00850B 3123 thru AW850B903969*

ARTS-WAY MANUFACTURING CO., INC.  
ARMSTRONG, IOWA 50514  
(712) 864-3131

254280

# WORK SAFELY - FOLLOW THESE RULES

A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT

 **CAUTION!** Before handling ANY equipment, READ the OPERATOR'S MANUAL.

Misuse or modification of this machine can cause:

- mechanical breakdown,
- property damage,
- injury or death.

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

## BEFORE OPERATING

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

Make sure that all safety shields, including the tractor power take-off master shield, are in place and properly secured before operating the machine.

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

After servicing, be sure that all tools, parts or servicing equipment are removed from the machine.

Make sure that there is no one near the machine before starting it.

Be sure the tractor power take-off is disengaged before starting the tractor engine.

## DURING OPERATION

Shut off the tractor engine and put key in pocket before opening any covers, adjusting, cleaning, or lubricating.

Do not attempt to remove any obstructions from the auger while the machine is running.

Do not open any covers and expose the drive chains while they are rotating.

Keep hands, feet and clothing away from moving parts.

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

Always disengage the discharge auger before transporting.

Shut off the tractor engine before making any adjustments.

Be careful Do Not climb on machine. Wet shoes or boots are slippery.

Hydraulic fluid escaping under pressure can have enough force to penetrate the skin. Hydraulic fluid may also infect a minor cut or opening in the skin. If injured by escaping fluid, see a doctor at once. Serious infection or reaction can result if medical treatment is not given immediately. Make sure all connections are tight and that hoses and lines are in good condition before applying pressure to the system. Relieve all pressure before disconnecting the lines or performing other work on the hydraulic system. To find a leak under pressure use a small piece of cardboard or wood. Never use hands.

## TRANSPORTING

Always use the safety chain and secure safely.

Tow at a maximum of 10 M.P.H. over rough roads and when going down inclines.

Maximum towing speed - 20 M.P.H.

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

Always use SMV (slow moving vehicle) emblem.

For daytime and nighttime, accessory light and devices should be used for adequate warning to operators of other vehicles.

Comply with your state and local laws governing highway safety, and with regulations when moving machinery on a highway.

Check clearances carefully wherever machine is towed.

## TO THE OWNER

This Art's-Way unit is another one of the fine products made and the purpose of this manual is to assist you in realizing the benefits you anticipated when you purchased this unit. Many people have contributed to the production of this product. They all have an interest in its successful performance and we are providing this manual to give you the benefit of the experience we have gained through years of building and testing this equipment. The way you operate and the care you give this unit will have much to do with the successful performance of this unit. This operators manual has been carefully prepared and illustrated to make it as easy as possible for you in the operation of your unit. It will pay you to read the entire manual carefully and familiarize yourself with all operations "before operating" this unit. Keep this manual handy for reference. We will be glad to answer any questions you may have. For further information call or write Art's-Way Manufacturing Co., Inc. (712) 864-3131, Armstrong, IA 50514.

## LIMITED WARRANTY

The **ART'S-WAY MANUFACTURING CO., INC.** warrants products sold by it to be free from defects in material and workmanship for a period of one(1) **YEAR** after the date of delivery to the first purchaser subject to the following conditions:

(1) **ART'S-WAY MANUFACTURING CO., INC.'S** obligation and liability under this warranty is to repair or replace at the company's option, any parts which upon manufacture were defective in material or workmanship.

(2) All parts and repairs under this warranty shall be supplied at an authorized **ART'S-WAY MANUFACTURING CO., INC.** dealer or at the factory at the option of **ART'S-WAY MANUFACTURING CO., INC.**

(3) **ART'S-WAY MANUFACTURING CO., INC.'S** warranty does not extend to parts and elements not manufactured by **ART'S-WAY MANUFACTURING CO., INC.** and which carry the warranty of the other manufacturer.

(4) Transportation or shipping to an authorized dealer for necessary repairs is at the expense of the purchaser.

(5) **ART'S-WAY MANUFACTURING CO., INC. MAKES NO OTHER WARRANTY OR IMPLIED AND MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE BEYOND THAT EXPRESSLY STATED IN THIS WARRANTY. ART'S-WAY MANUFACTURING CO., INC.'S LIABILITY IS LIMITED TO THE TERMS SET FORTH IN THIS WARRANTY AND DOES NOT INCLUDE ANY LIABILITY FOR DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR EXPENSE OF DELAY AND THE COMPANY'S LIABILITY IS LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE PARTS AS SET FORTH HEREIN IN THE WARRANTY.**

(6) Any improper use, including operation after discovery of defective or worn parts, operation beyond rated capacity, substitution of parts not approved by **ART'S-WAY MANUFACTURING CO., INC.**, or any alteration or repair by other than an authorized **ART'S-WAY MANUFACTURING CO., INC.** dealer which affects the product materially and adversely, shall void this warranty.

(7) No dealer, employee or representative is authorized to change this warranty in any way or grant any other warranty unless such change is made in writing and signed by an officer of **ART'S-WAY MANUFACTURING CO., INC.** at its home office.

(8) Some states do not allow limitations on how long an implied warranty lasts or exclusions of or limitations on relief such as incidental or consequential damages so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

# ACCIDENTS can be prevented

A large number of accidents can be prevented by the operator anticipating the result before it happens and doing something about it. No power-driven equipment can be safer than the man at the controls.

The manufacturer is striving to make the equipment safe, but one careless act by the operator can void all such efforts.

The best kind of a safety device is a careful operator. **BE THAT KIND OF AN OPERATOR**, as no accident-prevention program can be a success without the co-operation of the operator of the equipment.

## INFORMATION FOR ORDERING PARTS

OWNERS NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

DEALERS NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

DATE PURCHASED \_\_\_\_\_

A Careful Operator

IS THE BEST INSURANCE

AGAINST AN ACCIDENT

National Safety Council

Art's-Way reserves the right to make changes or add improvements to its products at any time without incurring any obligation to make such changes to products manufactured previously. Art's-Way, or its dealers, accept no responsibility for variations which may be evident in the actual specifications of its products and the statements and descriptions contained in this publication.

## THE IMPORTANCE OF ADEQUATE PARTS AND SERVICE

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

1. ORIGINAL QUALITY
2. AVAILABILITY OF SERVICE PARTS
3. AVAILABILITY OF ADEQUATE SERVICE FACILITIES

In many cases the machine becomes the only means of performing certain tasks that must be done in a limited period of time. Wear and even breakage of parts are to be expected due to operating conditions. However, the user can still be assured of getting his work done on time if service parts and adequate service facilities are available.

Foresighted Art's-Way dealers make every effort to provide good service and maintain a completely adequate stock of service parts.

### NOTICE TO CUSTOMER

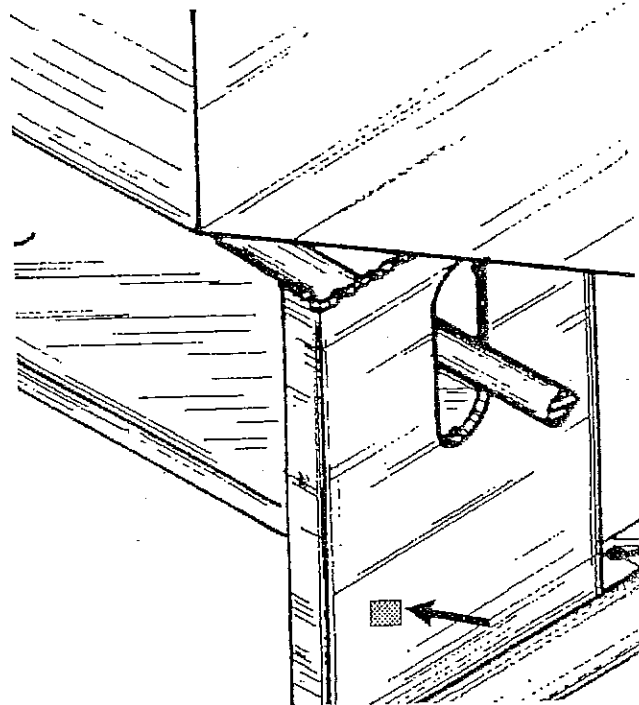
The illustration and data used in this manual were current at the time of printing, but due to possible in-line production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machine as may be necessary without notification.

The warranty for this machine appears on page 2 of this manual. Record the model and serial number of your Silamix in the space provided on previous page.

The warranty registration form in the back of this book must be completed and returned to the factory in order to establish proper WARRANTY.

Whenever you correspond with the company, distributor or dealer concerning this machine, please specify model number and serial number.

This manual contains operating instructions for the Model 800B and 850B Silamix. This manual replaces the use of 165150(800A & 850A) and 180770(800B & 850B Supplement).



MACHINE SERIAL NO. LOCATION  
(LEFT GEAR BOX UPRIGHT)

# NOTES

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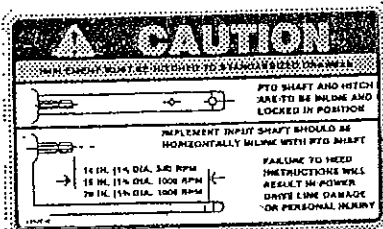
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# SAFETY DECALS

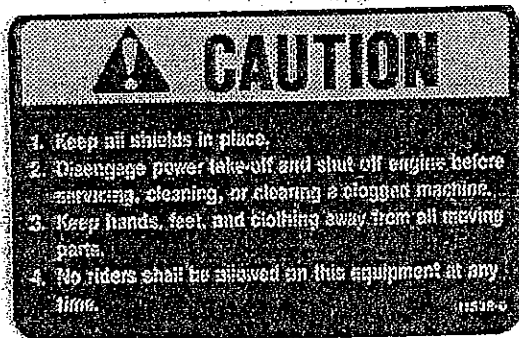
Located at strategic points on this machine are safety decals. These decals warn you of potential danger if the warnings on the decals are not followed.



NO. 1 - "IMPORTANT - FOR 540 RPM/PTO OPERATION." Part Number 121170. DO NOT operate with 1000 RPM/PTO. Located by the PTO gearbox.



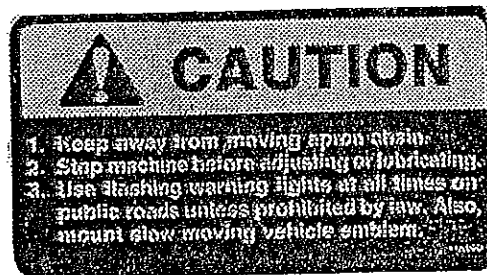
NO. 2 - "IMPORTANT" Machine must be hitched to standardized drawbar. Unless these instructions are followed, power drive line damage may result. Located on side of frame Part Number 115370.



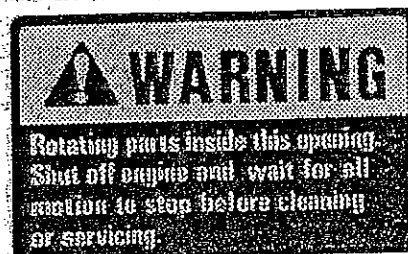
NO. 3 - "CAUTION" Safety Shield caution decal, Part Number 115380 lists four basic rules to be observed at all times around this machine. This is located on the front side of discharge auger housing.



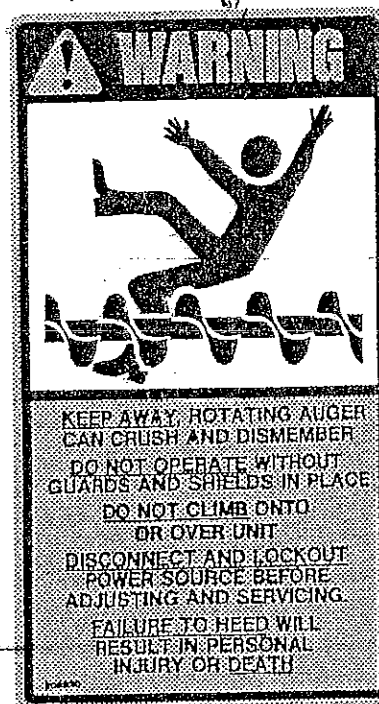
NO. 4 - "CAUTION" Safety caution decal Part Number 115430. Located on the front side of discharge auger housing.



NO. 5 - "CAUTION" Safety caution decal Part Number 115390 lists 3 basic rules to be observed at all times around this machine. This is located on rear of mixing tank.



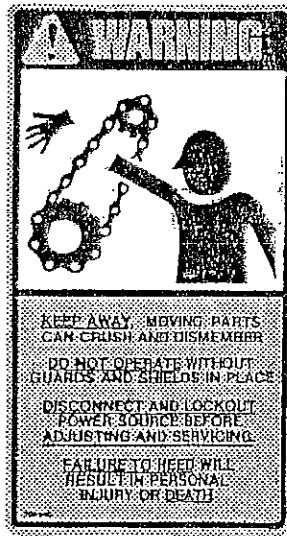
NO. 6 - "WARNING" Safety caution decal Part Number 121190. Located on discharge auger extension housing.



NO. 7 - "WARNING" Decal Part Number 208930. Located on front side of discharge auger housing.



# SAFETY DECALS



NO. 8 - "WARNING" Decal Part Number 208940.  
Located on each main drive shield.



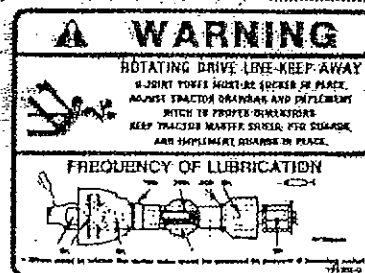
NO. 10 - "DANGER" Decal Part Number 208960.  
Located on each side of silamix box directly above fender and on rear.



NO. 9 - "DANGER" Decal Part Number 208950.  
Located inside main drive shield.



NO. 11 - "DANGER" Decal Part Number 208970.  
Located on discharge auger housing directly above PTO.



NO. 12 - "WARNING" Decal Part Number 196800.  
Located on PTO shaft.

## SAFETY CHAIN

### TRANSPORTING

Whenever wagon is to be transported on a public thoroughfare, observe these instructions.

1. Always use safety chain and secure safely.
2. Keep road speed down to maximum of 10 MPH especially over rough roads and when going down inclines.

### MOUNTING INSTRUCTIONS

1. Mount chain on hitch channel by running chain through loop and running hook through the large ring at end of chain and pull tight as shown in Figure 1.
2. Run the chain through a clevis pin bolted on the tractor drawbar, then wrap the chain around a supporting member of the tractor and hook as shown in Figure 2.

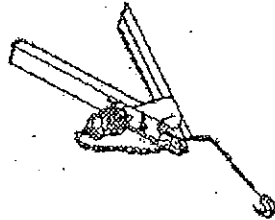


FIGURE 1

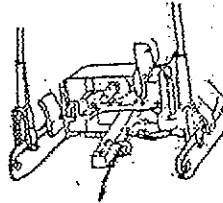


FIGURE 2

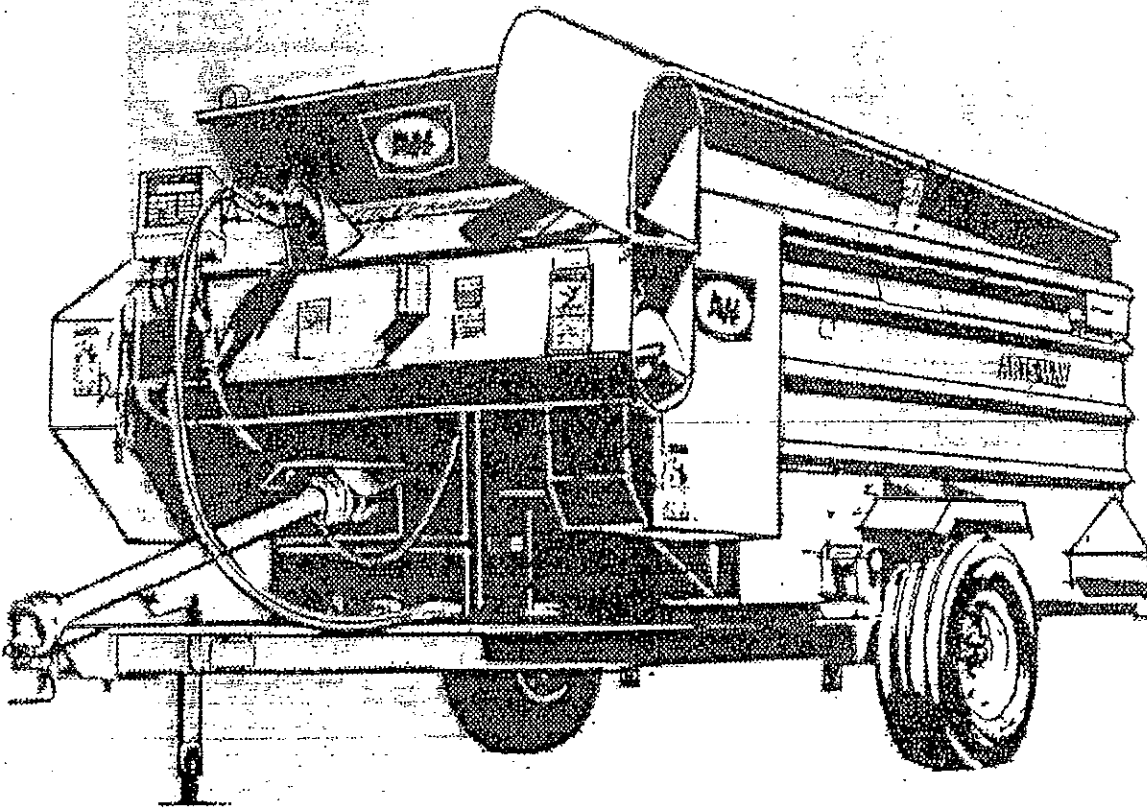


FIGURE 3 - FRONT CORNER VIEW OF MODEL 800B SILAMIX

## INTRODUCTION

This manual has been prepared to acquaint the new owners with the Art's-Way 800B and 850B Silamix silage-mixers. It should help you better understand the efficient operation and care of your silage-mixer.

The Art's-Way 800B and 850B Silamix silage-mixers are PTO driven from the 540 RPM tractor PTO. For best results, the PTO speed should be 350 to 500 RPM under load. It is "RECOMMENDED" that the silage-mixer be run while loading.

This silage-mixer has been specifically designed for use with silage and haylage not longer than 3 inches in length. Any material long enough to hairpin or wrap on the mixing chain slats can cause damage to the machine. It is not recommended for flail cut material. Preferred material length is 1 inch or less. Reduced unloading capacity results as material length approaches 3 inches.

The addition of grain and/or supplements may be added at any time that is convenient to the operator. It is recommended that grain and supplements be in the machine before adding silage to insure maximum distribution and a minimum of mixing time. Approximately 5 minutes is required for a thorough mixing, although this may vary with feeds and under different conditions. During the mixing process, a portion in the rear of the machine will be empty. This is normal and essential to the mixing action of the silage-mixer. It is required that the lower rear idler sprockets be visible at maximum loaded conditions. (See Figure 7).

Optional attachments are illustrated on pages 22 and 23.

Whenever the terms "left" and "right" are used, it should be understood to mean from a position behind and facing the machine.

## PREPARING FOR FIELD OPERATION

### PREPARING THE SILAMIX

#### BOLTS AND NUTS

Before starting to operate the Silamix, check all nuts and bolts for tightness. Also check that all cotter pins are spread. After operating the Silamix for several hours, check all bolts for proper torque. See bolt torque specifications in the chart on page 20.

All cap screws used in the Silamix are "high-strength" and if replaced, cap screws of equal or higher strength should be used. "High-strength" cap screws are identified by three radial dashes on the hex head. All bolts in mixing chain are Grade 8 or 5 radial dashes on the hex head.

#### TIRE INFLATION

Check tires for proper inflation pressure. See page 14 for recommended care of tires and inflation pressure.

#### LUBRICATION

Lubricate the Silamix at regular intervals as instructed on pages 18 and 19.

#### ASSEMBLY

Remove drain cap which is fastened to door crank support for shipment. Install drain cap on drain plug located under left rear corner of Silamix box (see figure 4).

**IMPORTANT:** Remove drain plug if machine is stored outside.

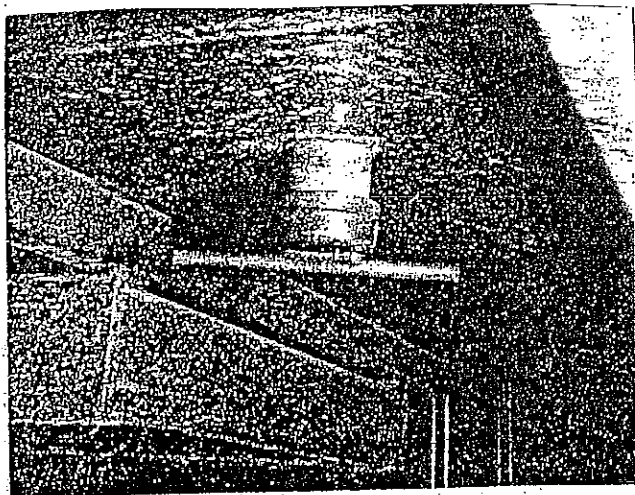


FIGURE 4 - DRAIN CAP LOCATION

Install implement end of power shaft by fastening to gearbox with clevis pin and cotter key provided. Keep PTO well lubricated.

### TRANSPORTING

Before transporting the Silamix silage-mixer, be sure to read and follow these instructions carefully.



**CAUTION:** Always transport a loaded Silamix at slow speed, 10 MPH, and be extra careful in hilly country.

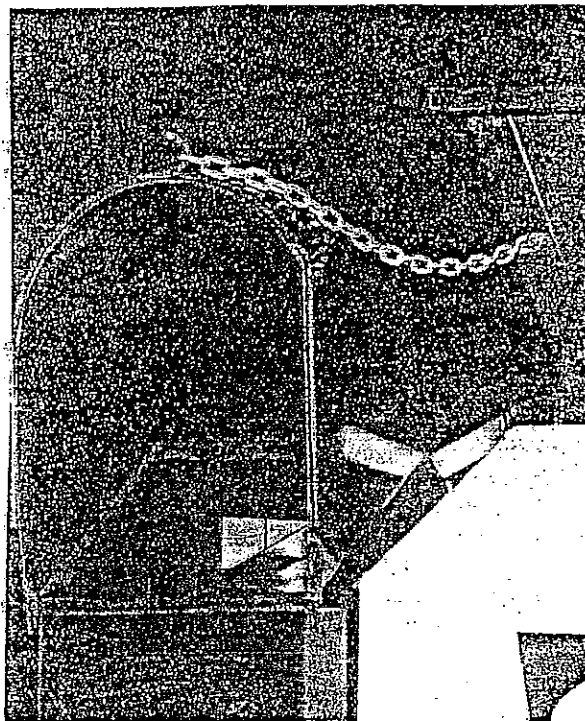


FIGURE 5 - DISCHARGE AUGER EXTENSION RAISED

Raise the discharge auger extension and secure it with the chain provided.

Be sure the hitch pin is locked in place before transporting. Connect towing safety chain to tractor drawbar. Place jackstand in transport position.

When driving tractor and Silamix on a road or highway, whether at night or during the day, use accessory lights and SMV identification emblem. Use of a flashing amber light is acceptable in most localities. However, some localities prohibit use of them. Local laws should be checked for highway lighting and marking requirements.

### PREPARING THE TRACTOR

The 800B and 850B Silamix silage-mixers may only be used on tractors with 540 RPM PTO drives. No limitations are placed on tractor horsepower; however, a minimum of 40 horsepower is recommended for most applications.

## PREPARING FOR FIELD OPERATION

Place the tractor drawbar in the extended position with the hole in the end of the drawbar 14 inches from the end of the 540 RPM PTO shaft. See page 7, decal No. 2. The hitch of the Silamix is designed to attach to any SAE-ASAE standardized tractor drawbar. Adjust the drawbar so that it is 13 to 17 inches above the ground.

Lock the drawbar in its crossbar, parallel with the centerline of the powershaft. Place the locking pins on either side of the drawbar.

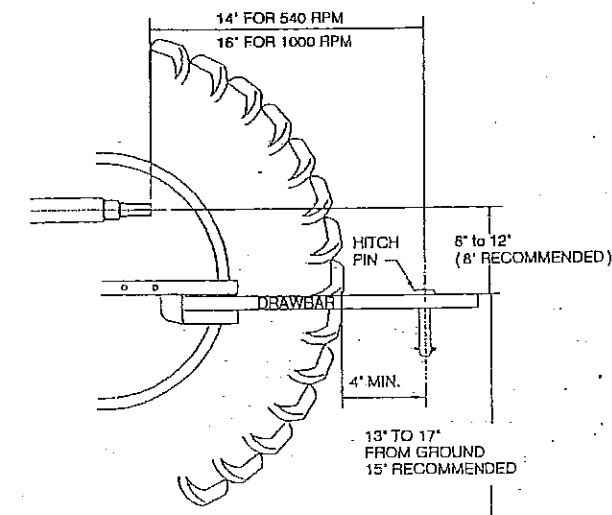


FIGURE 6 - HITCHING POINT LOCATIONS

**IMPORTANT:** If the tractor has an offset drawbar, the offset should always be down for PTO work. Possible damage to the powershaft universal joints on the Silamix can be avoided if the drawbar adjustment is made before attaching and operating the Silamix silage-mixer.

**IMPORTANT:** An improperly located hitch point may cause damage to the universal joints of the power take-off.

## ATTACHING TO THE TRACTOR

Back the tractor up to the hitch. Use the handle of the jackstand to raise or lower the Silamix hitch into position to engage the tractor drawbar. The drawbar must be between the upper and lower plates of the hitch clevis. Carefully back the tractor into position and insert the hitch pin. The jackstand should then be raised to the transport position and locked.



**CAUTION:** Never transport the Silamix silage-mixer until the hitch pin is secured in position and the safety chain is properly installed.

If Silamix is equipped with a hydraulic operated trough door, plug the hydraulic cylinder hoses into the tractor outlets.

Connect the powershaft to the tractor power take-off shaft. The Silamix is equipped to operate with the 540 RPM tractor PTO. The tractor half of the powershaft is equipped with six splines. Before engaging PTO and after making the connection, check to be sure the spinner shields are free to rotate.

## DETACHING FROM TRACTOR

Be sure PTO is shut off and tractor engine is stopped. Place key in pocket.

Disconnect the powershaft from the tractor.

Disconnect electronic scale power supply cord from tractor if so equipped.

Disconnect hydraulic hoses from tractor outlets if equipped with hydraulic operated trough door.

Block the tires. Lower the jackstand to its storage position. Turn the handle of the jackstand to raise the Silamix tongue off the tractor hitch.

Remove the hitch pin. Drive the tractor away and replace the hitch pin into the Silamix hitch tongue.

## OPERATION

### OPERATION

**IMPORTANT:** Before using with PTO and with tractor engine stopped (key in pocket), inspect machine and remove any foreign objects which may have fallen into box during transit.

### LOADING AND MIXING

For best results, tractor PTO speed should be 350 RPM to 500 RPM under load. It is "RECOMMENDED" that the Silamix silage-mixer be run while loading. However, if the machine is not run, several points must be observed.

1. Never fill machine in the rear only, especially if disconnected from the tractor, as the uneven weight will cause the box to become unbalanced and up-end. Also, if too much silage is to the rear when the mixing apron starts, some spillage will occur. Make sure scraper and guard are in position to prevent a large slug from going between the apron slats and the back (see figure 7).

2. Care must be taken not to over fill the box as some spillage may occur when the mixing is started. After some experience, it will be easier to judge the amount of feed necessary to fill the box.



**CAUTION:** Never put your hands inside of the machine during operation, or perform any kind of an adjustment, lubrication, or repair to the machine without shutting off the tractor ignition and placing key in pocket. Keep children and bystanders away from machine while in operation.

The addition of grain and/or supplements may be done at any time convenient to the operator. It is recommended that grain and supplements be in the

mixing tank before adding silage to insure maximum distribution and minimum of mixing time. Approximately 5 minutes is required for thorough mixing, although this may vary with feeds and under different conditions.

During the mixing process, a portion in the rear of the mixing tank will remain empty. This is normal and essential to the mixing action of the Silamix silage-mixer (see figure 7).

**IMPORTANT:** Inspect apron chain adjustment periodically and adjust when necessary (see page 15).

On machines equipped with electronic scale, inspect and tighten bolts in hitch weighbar regularly. Inaccurate weighing will result from loose bolts. Structural damage and weighbar damage can also result.



**CAUTION:** Care must be taken when filling machine so that rocks do not get in the mixture. Even small stones of golf ball size may cause considerable damage. They may lodge between chain side bars, and the sprocket can then force them through chain links causing apron chain breakage.

### MIXING TANK CAPACITY

When filling and mixing, avoid overfilling the mixing tank. The mixing tank for the Model 800B Silamix has a capacity of 175 bushels (approximately 3 tons) of silage and the mixing tank for the Model 850B Silamix has a capacity of 250 bushels (approximately 4 tons) of silage. Capacities listed are for a properly filled tank with lower rear idler showing during mixing (see figure 7).

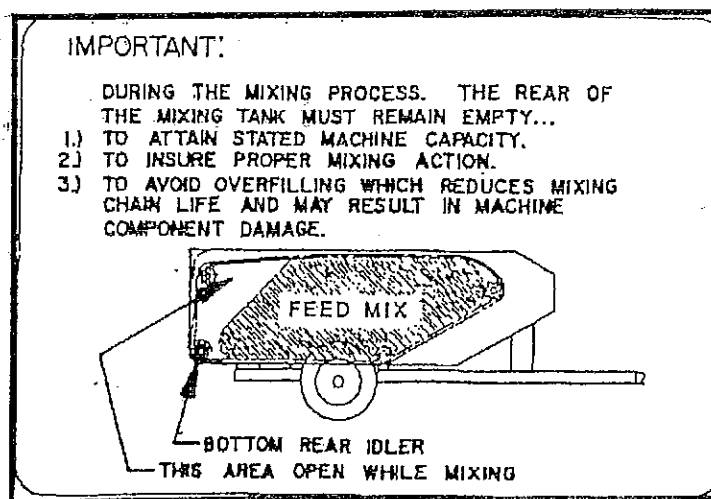


Figure 7

## OPERATION

### UNLOADING

To unload the silamix silage-mixer, lower the discharge extension first, if used.

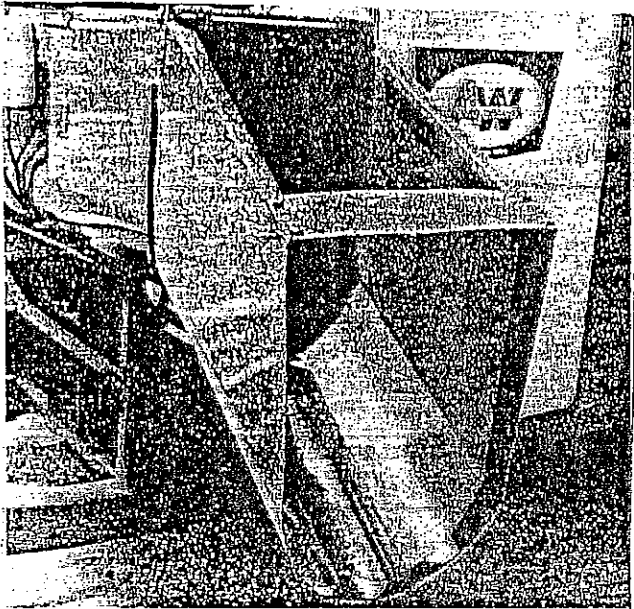


FIGURE 8 - DISCHARGE AUGER EXTENSION LOWERED



**CAUTION:** Open trough door no more than two-thirds of its full opening before starting the machine. Opening the door too far at first may plug the discharge auger.

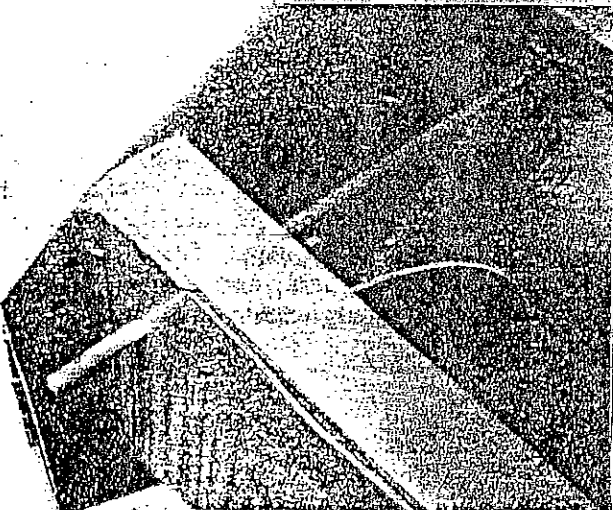


FIGURE 9 - TROUGH DOOR INDICATOR

The trough door is opened and closed by turning the crank handle on the jack (Figure 10). An optional hydraulic cylinder is available for opening and closing the trough door from tractor hydraulics (see page 22).

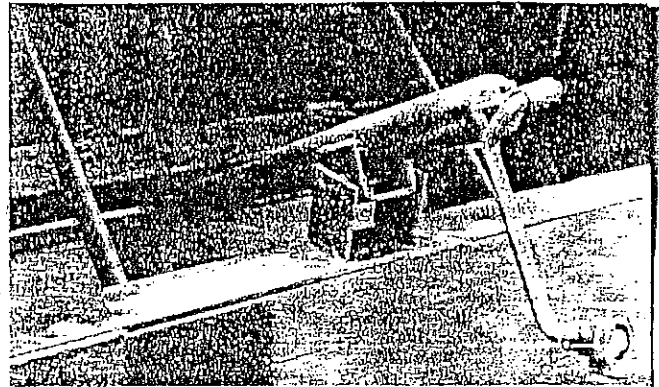


FIGURE 10 - TROUGH DOOR JACK

Feed may be left in the mixing tank for a short period of time, but it is recommended that the Silamix mixing tank be unloaded as soon as possible if the silage has high moisture content.

### ENGAGING AND DISENGAGING DISCHARGE AUGER

The discharge auger is engaged by pulling the clutch lever out from the machine. To disengage discharge auger, rotate the clutch lever back towards the machine until the overcenter-mechanism holds the clutch disengaged.

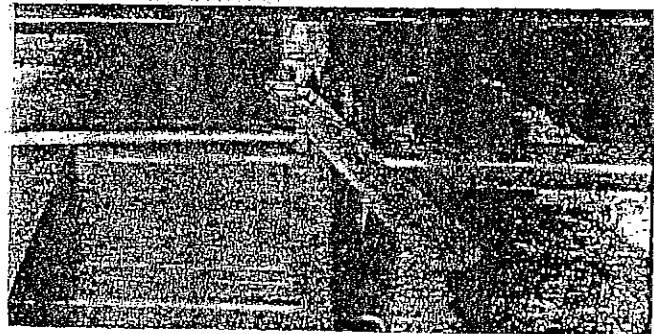


FIGURE 11 - DISCHARGE AUGER CLUTCH

It is recommended that the tractor PTO be stopped before engaging the discharge auger clutch. The discharge auger can be disengaged at any time. See page 22 for automatic clutch kit.

### CARE OF RUBBER TIRES

Keep tires properly inflated.

Lack of pressure will result in torn valve stems, fabric breaks, and uneven treadwear. Too much pressure causes undue strain on the fabric, excessive tread wear, and allows the tire to cut in more on wet surfaces, thus greatly increasing the draft load.

Recommended tire inflation pressure is:

10.00-15	8-PR tires - 36psi
11L-15	8-PR tires - 32psi
13.50 - 16.1	8-PR tires - 28psi

Inflate tires to equal pressures.

## ADJUSTMENTS

### DRIVE CHAINS

The tension of the main drive chain on both sides of the machine and the discharge auger chain on the right side should be watched closely, especially during the first several loads in a new machine. The main drive chains will stretch during operation and therefore must be kept adjusted at all times.

Total measured deflection of the chain at the center of its longest span should be no more than 3/4 inch (18 mm).

Adjust the tension of the main drive chains and discharge auger drive chain by positioning the tightener sprocket in its slot. If the end of the adjustment slot is reached, remove two chain pitches from the chain and reposition the tightener sprocket.

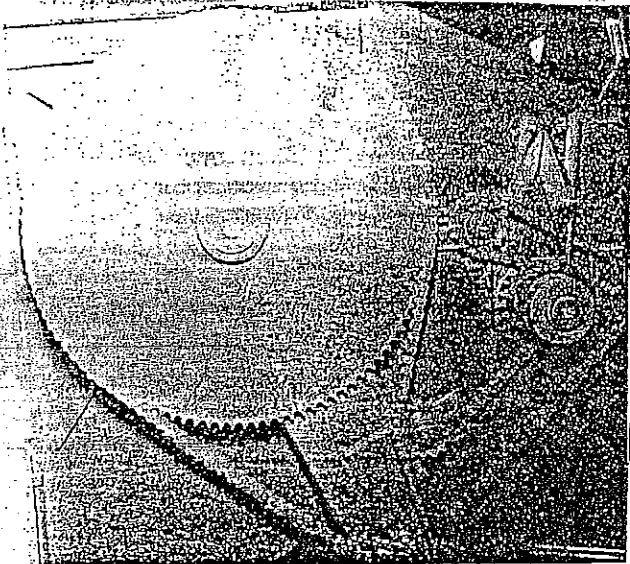


FIGURE 12 - RIGHT SIDE DRIVE CHAIN



**CAUTION:** Leave all chain guards and drive shaft shields in place while the machine is operating. These shields are for your protection.

**IMPORTANT:** Periodically check all bolts and set screws on bearing and sprockets, especially when machine is new.



FIGURE 13 - LEFT SIDE DRIVE CHAIN

### APRON CHAINS

The machine should never be operated with broken or missing rollers in the apron chain. The roller spacers and chain tension should be checked frequently to avoid serious damage to the machine.

**IMPORTANT:** The apron chain tension is very important on this unit. The top of the chain must be kept even with the leveling holes to insure satisfactory life and prevent climbing of the chain on the sprockets.



## ADJUSTMENTS

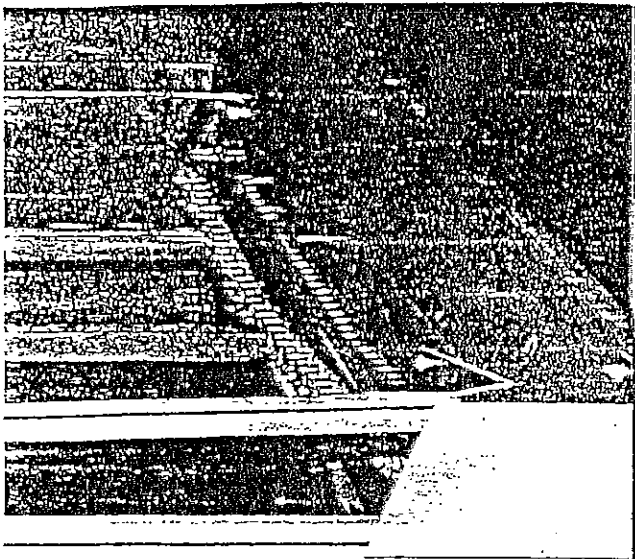


FIGURE 14 - TOP VIEW OF MIXING BOX

When the chain tighteners reach the most rearward position, slide them forward as far as possible and remove two links from each apron chain; then tighten the chains to the adjustment described above.

**NOTE:** If an apron chain does get too loose, it may jump a tooth and put the chain out of time. **DO NOT OPERATE IN THIS CONDITION.** To adjust, remove one side of the main drive chain. Turn the opposite side until the apron slats are parallel or equal distance from the front or rear of the box. Then reinstall the main drive chain.

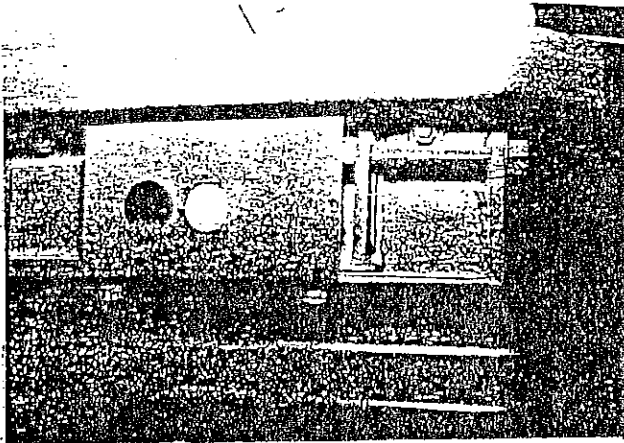


FIGURE 15 - CHAIN ADJUSTMENT

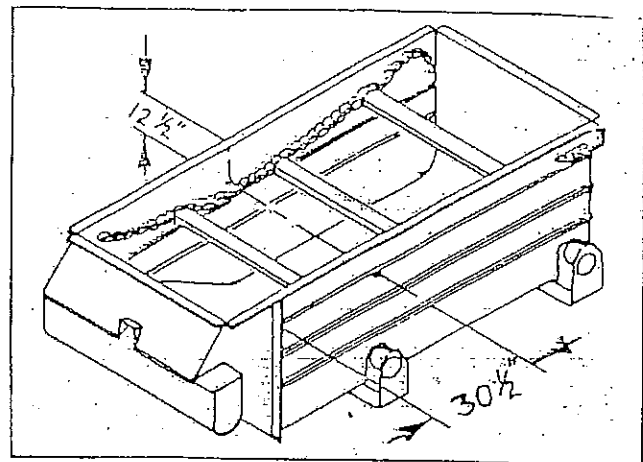


FIGURE 16 - LOCATION OF LEVELING HOLES

The location of the holes is shown in Figure 16 above.

## AUGER CLUTCH

A distance of 1/4" should be maintained between the clutch faces when disengaged. Adjustment is made by the nut on the eye bolt located at the clutch lever (see figure 18) or the eye bolt located at pivot pulley on auto clutch (see figure 19).

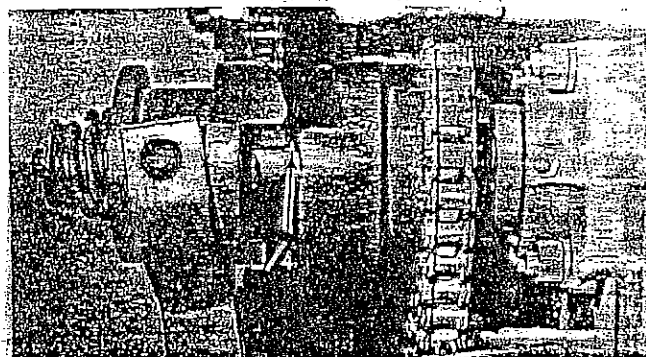


FIGURE 17 - CLUTCH HALF SPACING

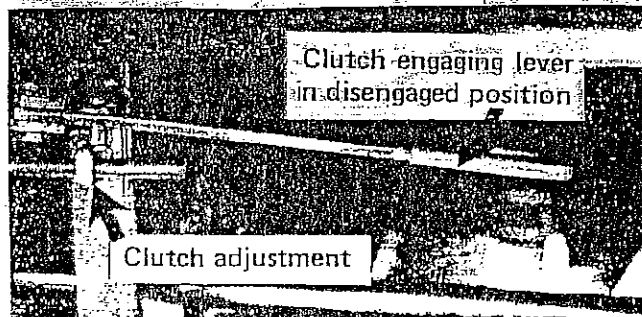


FIGURE 18 - CLUTCH ADJUSTMENT

## ADJUSTMENTS

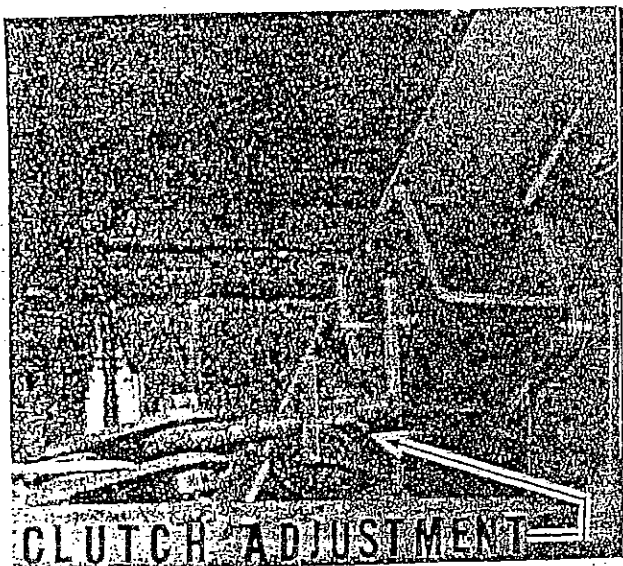


FIGURE 19 - AUTO CLUTCH ADJUSTMENT

### WHEEL BEARINGS

Securely block up frame so that wheel turns freely. To tighten the wheel bearing, first remove the hub cap. Remove the cotter pin from the slotted nut and tighten the slotted nut until there is a slight drag on the bearing while turning the wheel. Then loosen or back off the nut to the nearest slot and insert and spread cotter pin. There should be a slight drag on the bearing following the adjustment. Replace hub cap.

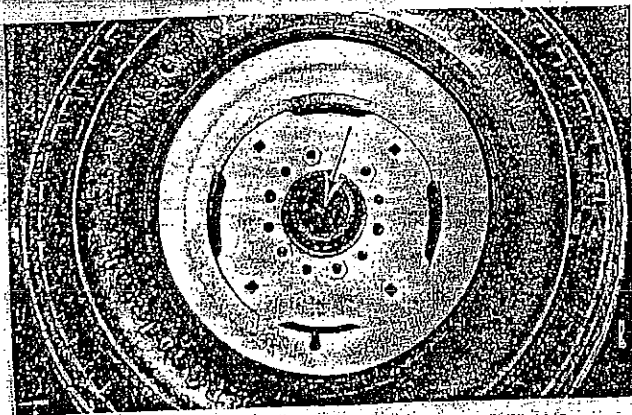


FIGURE 20 - ADJUSTING WHEEL BEARINGS

## LUBRICATION



**CAUTION:** Do not clean, lubricate or adjust your Silamix silage-mixer while it is running. Shut tractor engine off, place key in pocket, and disconnect tractor PTO lever.

The Silamix silage-mixer is designed to require a minimum amount of lubrication. However, the points that are to be lubricated should be serviced regularly at the intervals listed. **DO NOT OVER GREASE.**

Keep your supply of lubricating oil and grease stored in clean containers and covered to protect from dust and dirt.

Keep the lubricating gun nozzle clean and wipe dirt from grease fittings before lubricating.

### WHEELS

Repack wheel bearings once a year or every 100 hours of operation with SAE multi-purpose type grease.

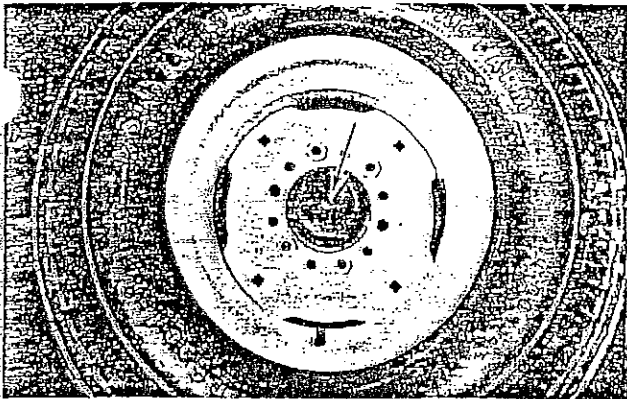


FIGURE 21 - WHEEL BEARING LUBRICATION

### PTO SHAFT AND SPINNER SHIELDS

Grease bearing crosses and zerk on sliding shaft weekly or every 10 hours of operation with SAE multi-purpose type grease.

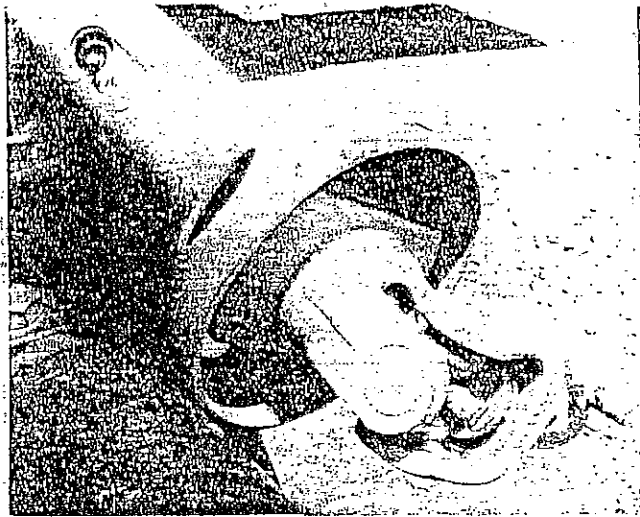


FIGURE 22 - PTO LUBRICATION

### AUGER CLUTCH

Brush shaft under sliding driven clutch half weekly or every 10 hours of operation with SAE multi-purpose type grease.

Grease flanged bearing on auger shaft and driver clutch half every 50 hours of operation with SAE multi-purpose type grease.

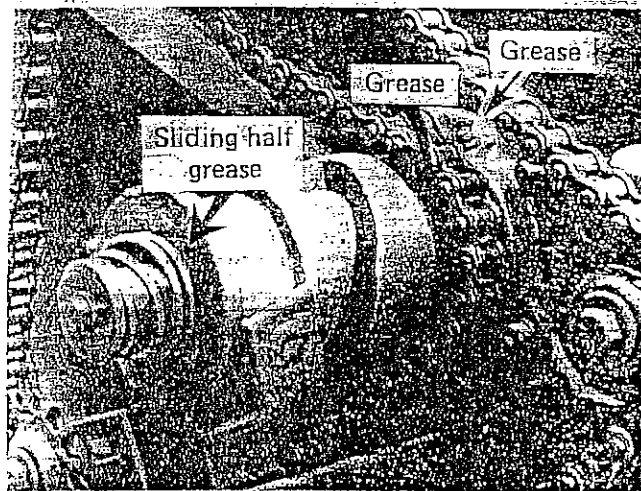


FIGURE 23 - AUGER CLUTCH LUBRICATION

### GEARBOX

Check oil level in gear box every 6 months by removing check plug at rear center of gear box. Add SAE 90 weight gear oil, if necessary. Drain and refill yearly with 2-3/4 lbs. SAE 90 weight gear oil. Drain hole plug is located at bottom of gearbox.

## LUBRICATION

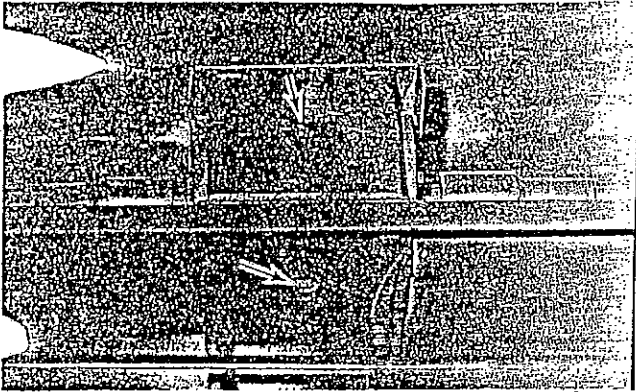


FIGURE 24 - GEARBOX LUBRICATION

### BEARING HUBS

Grease (4) lower idler bearing hubs and (2) upper drive bearing hubs every 50 hours of operation with SAE multi-purpose type grease.

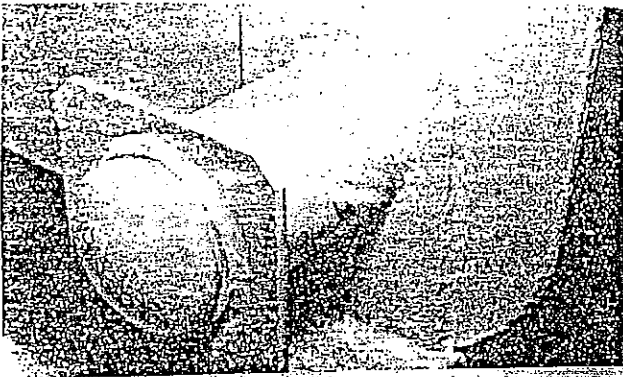


FIGURE 25 - LOWER IDLER BEARING HUB LUBRICATION

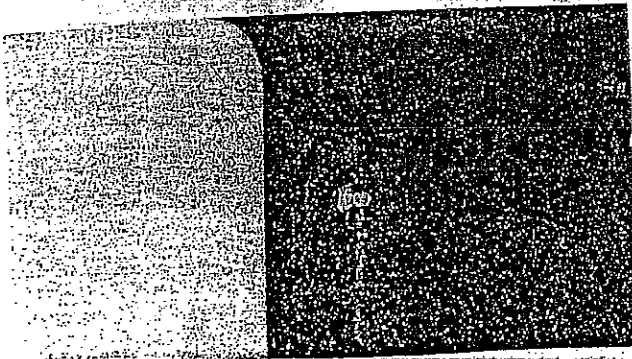


FIGURE 26 - UPPER DRIVE BEARING HUB LUBRICATION

### CHAINS

Periodically lubricate all drive chains and apron chain with light engine oil. Oil upper side of lower strand where possible for best results.

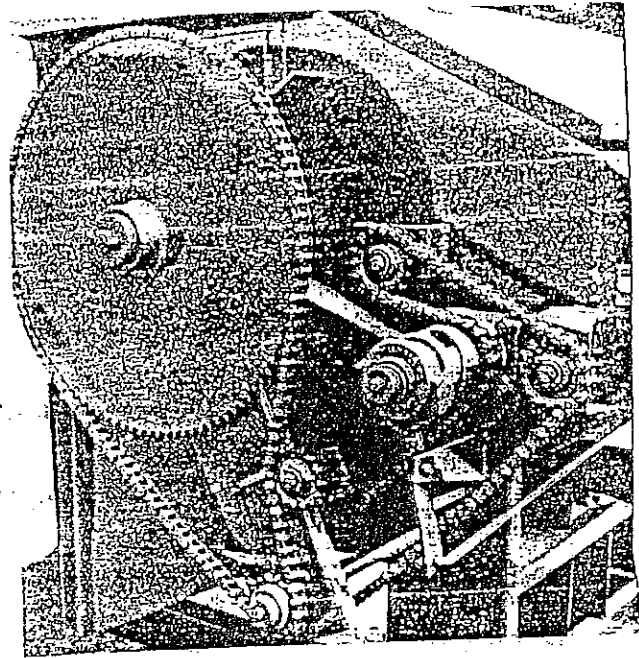


FIGURE 27 - DRIVE CHAINS LUBRICATION

### REAR IDLER BEARINGS

Grease (2) upper rear idler bearings twice weekly or every 10 hours of operation, whichever comes first.

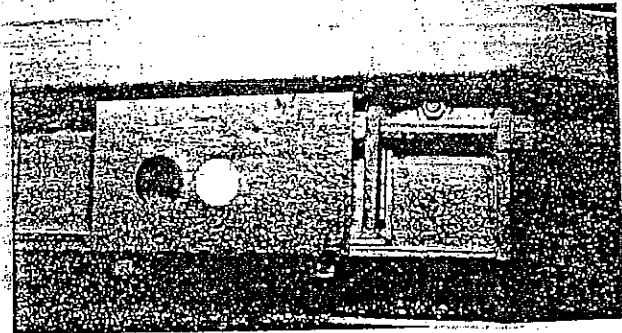


FIGURE 28 - LUBRICATION REAR IDLER BEARING

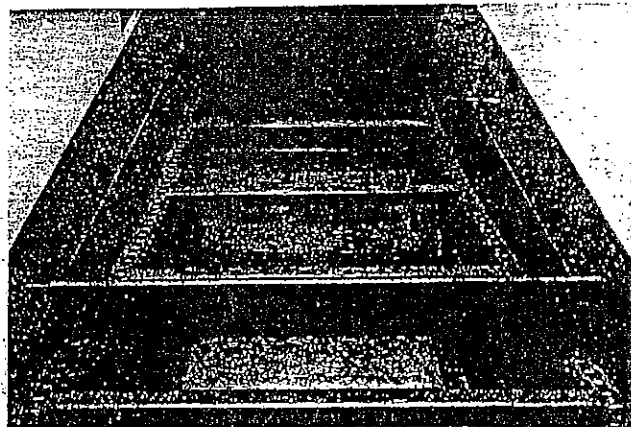


FIGURE 29 - APRON CHAIN LUBRICATION

## SERVICE



**CAUTION:** Disengage all drives and shut off tractor engine, place key in pocket, before servicing Silamix silage-mixer.

### SHEAR PLATES

To protect against damage, this machine is equipped with shear plate assemblies. One shear bolt is located on the discharge auger drive sprocket (see figure 30); the other is located on the main drive shear hubs (see figure 31).

If these bolts should break, inspect the machine thoroughly to determine the cause. Replace with Grade 5 cap screws. Do not over tighten.

Shear hubs located on the mixing drive sprockets are to protect against massive box damage when only one side of the mixing chain is driven. One side may drive on before shearing after the other side has sheared. If these bolts shear, inspect machine thoroughly to determine cause. Replace with 1/4 x 2-1/4 Grade 5 cap screws. Use a 1/4-20 hex lock nut.



**CAUTION:** DO NOT OVER TIGHTEN LOCK NUT.

One side of mixing chain may be ahead of the other side when bolts shear. If this is the case, the chain must be in time (lined up) before continuing operation. Timing of chain is accomplished by installing one set of shear bolts on the chain side that is lagging behind. Close all shields, then engage PTO until the mixing chain is lined up. Disengage PTO drive when chain is in time and then install the remaining two shear bolts.

**NOTE:** IF BOLTS CONTINUE TO SHEAR, CHECK FOR ONE OR MORE OF THE FOLLOWING:

1. Broken mixing chain or drive component.
2. Rock or other foreign objects inside box.
3. Over loading of box, especially on high fibrous type feeds.
4. Short shear bolts which allow shearing through thread area rather than bolt shank.
5. Soft (Grade 2) shear bolts instead of Hard (Grade 5) bolts.

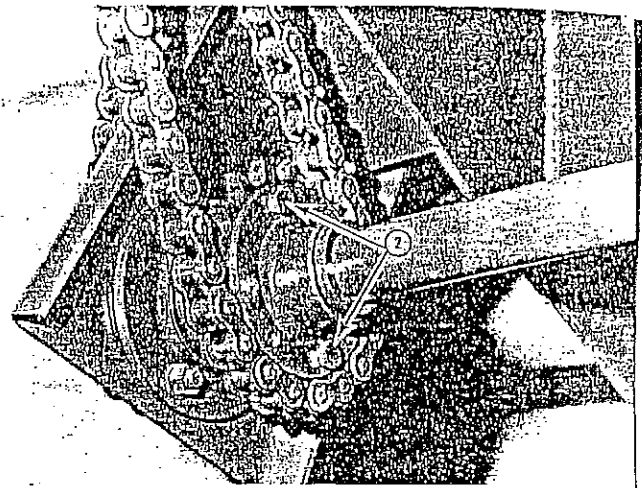


FIGURE 30 - AUGER DISCHARGE SHEAR BOLT

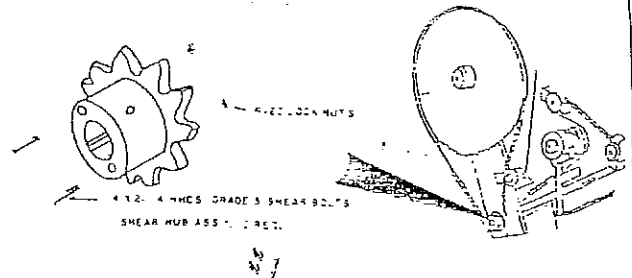


FIGURE 31 - DRIVE SHEAR HUBS

### BOLT AND NUT TORQUE SPECIFICATIONS

SIZE	CLAMP LOAD	PLAIN	PLATED
1/4 - 20(.250)	2,025	8 FT.LBS.	78 IN.LBS.
5/16-18(.3125)	3,338	17 FT.LBS.	13 FT.LBS.
3/8-16(.375)	4,950	31 FT.LBS.	23 FT.LBS.
7/16-14(.4375)	6,788	50 FT.LBS.	37 FT.LBS.
1/2-13(.500)	9,075	76 FT.LBS.	57 FT.LBS.
9/16-12(.5625)	11,625	109 FT.LBS.	82 FT.LBS.
5/8-11(.625)	14,400	150 FT.LBS.	112 FT.LBS.
3/4-10(.750)	21,300	266 FT.LBS.	200 FT.LBS.
7/8-9(.875)	29,475	430 FT.LBS.	322 FT.LBS.
1-8(1.000)	38,625	644 FT.LBS.	483 FT.LBS.
1-1/8-7(1.125)	42,375	794 FT.LBS.	596 FT.LBS.

## SERVICE

### STORAGE

If your Silamix silage-mixer is to be stored for any length of time, the following points should be followed:

1. Lubricate well all points covered on pages 18, 19.
2. Coat apron chain and inside of mixing tank with oil to retard rusting.
3. If possible, store inside or cover mixing tank.
4. Remove drain cap (see figure 4, page 11) from plug and block frame so that any water entering tank will drain at left rear corner of mixing tank.

## ATTACHMENTS



**CAUTION:** Do not install any attachment while Silamix silage-mixer is running. Shut tractor engine off, place key in pocket, and disconnect tractor PTO lever.

### 1-FOOT DISCHARGE AUGER EXTENSION

Install housing extension in place by installing long pin through tabs in extension and sleeves located on main frame discharge top. Secure cotter pins. Bolt lower tab of extension trough to lower tab on main frame discharge trough.

Install discharge extension auger by slipping shaft end inside the pipe on the outer end of the main discharge auger. Align holes in pipe and shaft so that auger flighting ends are 1/4 turn apart and insert clevis pin and cotter pin.

Reinstall angled drop extension to one foot extension trough, if desired.

### 2-FOOT DISCHARGE AUGER EXTENSION

Install 2-foot extension housing to main frame discharge with (2) 1/2 x 1 cap screws in pivot hole at center of housing. Allow to pivot freely.

Install top hinged lid to frame housing pivot with long pin and secure with cotter pins. Attach spring from hinged lid to 2-foot extension housing angle (see figure 32).

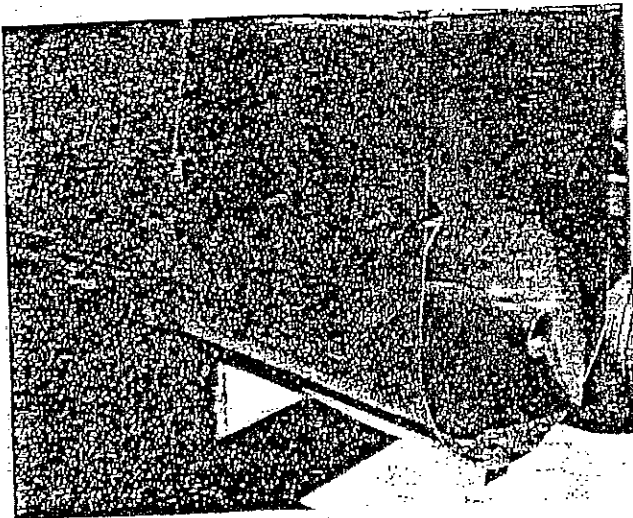


FIGURE 32 - 2-FOOT DISCHARGE AUGER EXTENSION, LOWERED

Attach U-joint to main auger and to 2-foot extension auger with clevis pins and cotter pins.

Reinstall angled drop extension to 2-foot trough, if desired.

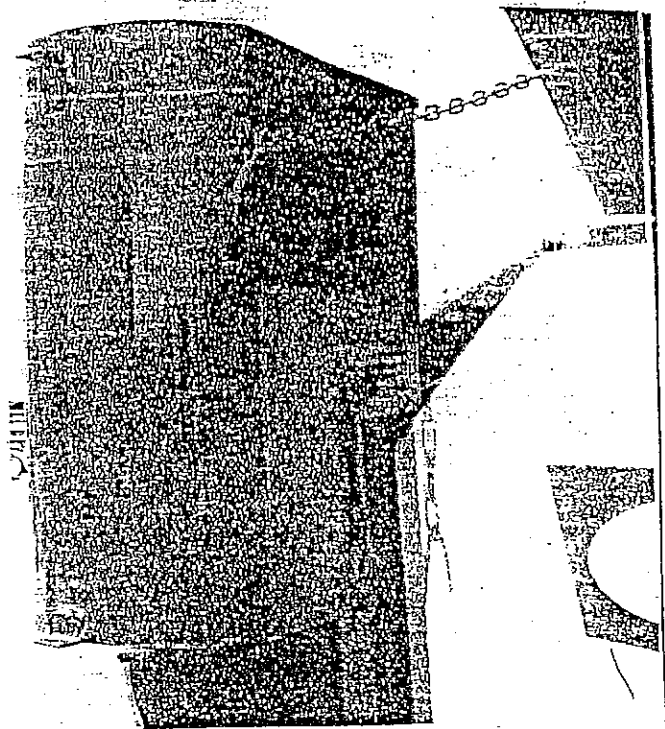


FIGURE 33 - 2-FOOT DISCHARGE AUGER EXTENSION, RAISED

### AUTO CLUTCH KIT

This clutch kit will automatically engage the discharge auger when the hydraulic cylinder opens the gate, and disengages the auger when the gate is closed. Adjust as follows:

With the gate fully closed, adjust cable length such that the jaw clutch is fully open with 1/4" clearance. Retighten cable clamps and recheck clutch opening clearance. NOTE: Fine adjustment is accomplished with eye-bolt.

Close and latch the right side shield. NOTE: If additional top clearance for clutch arm is required, move the front shield latch up in slot.

### HYDRAULIC OPERATED DOOR

The discharge auger and trough door may be operated either by hand crank or with a hydraulic cylinder.

The indicator rod is used to determine the position of the door; closed, open or partially open.

The ends of the hoses connected to the hydraulic cylinder are attached to the tractor hydraulic quick disconnects. The door is opened and closed by actuating the tractor valve lever.



## ATTACHMENTS

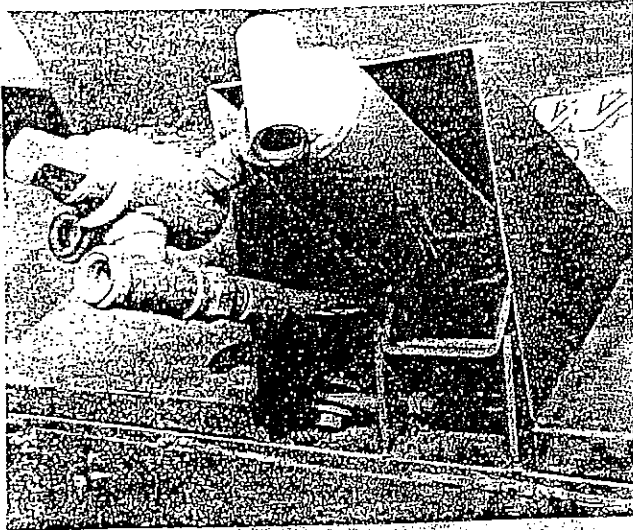


FIGURE 34 - HYDRAULIC CYLINDER FOR DOOR

### ELECTRONIC SCALE ATTACHMENT

A solid-state electronic scale attachment, Model 1000 or 700, is available for your silage mixer. The scale attachment consists of weighbar sensors mounted on the Silamix wheel spindles and hitch. They are electrically connected to the indicator box. A visual or audible alarm system is available with the electronic scale attachment. Scale accuracies of one percent or less are obtained. Complete installation and operating instructions are included with the attachment.

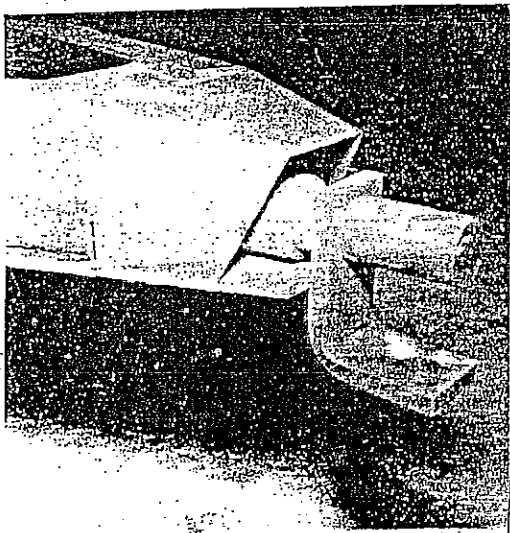


FIGURE 35 - ELECTRONIC SCALE ATTACHMENT

### BUNKGUARD (MODEL 800B ONLY)

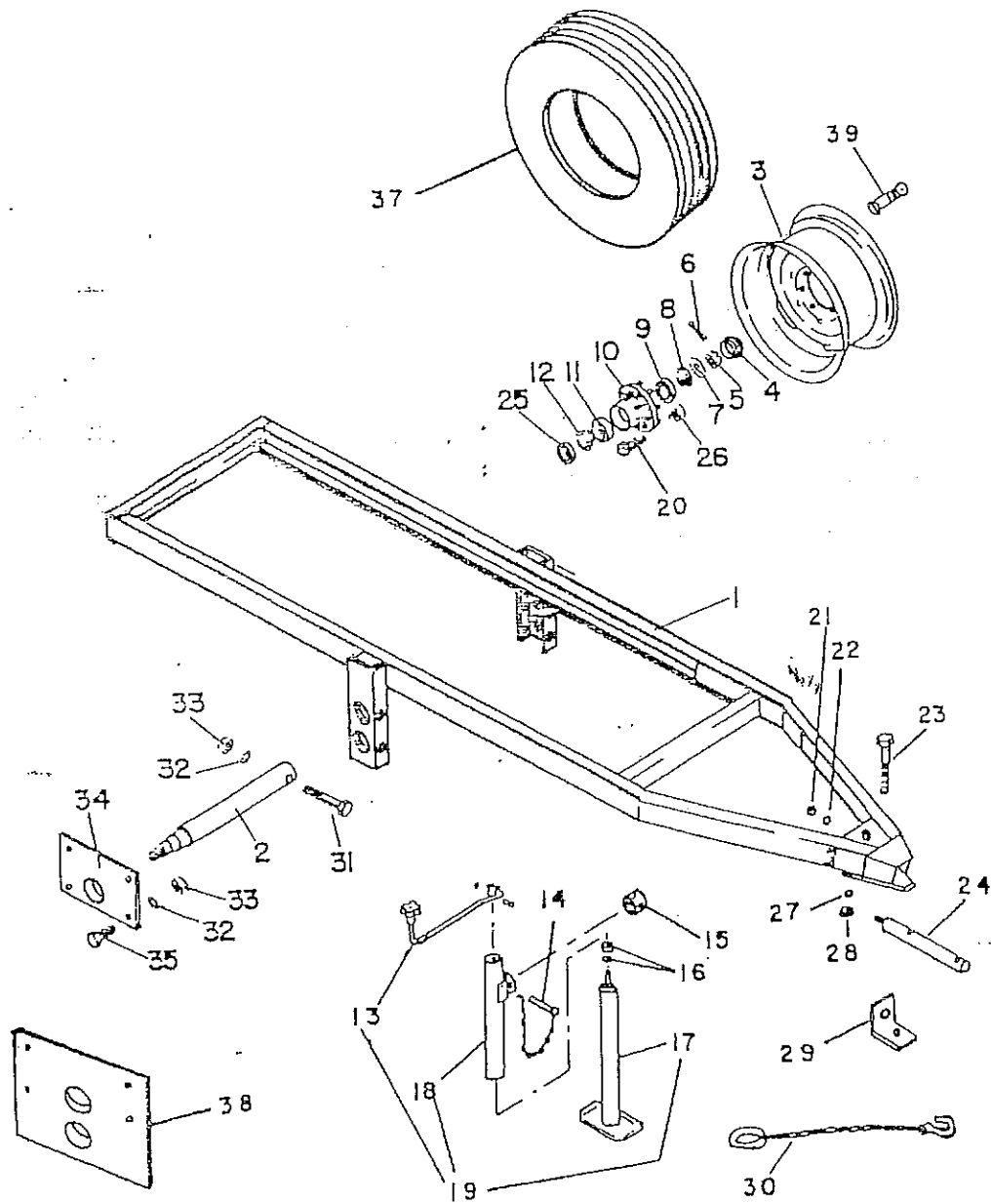
A bunkguard kit is available for protection of tire and frame parts on your Silamix in close quarters. It installs on the left side of the box.



## SPECIFICATIONS

MODEL	800B SILAMIX	850B SILAMIX
Approximate Weight	4240 lb	5380 lb
Mixing Tank Capacity	218 cu.ft. (175 bu)	310 cu.ft. (250 bu)
Unloading Auger		
Diameter	12 in.	12 in.
Length	76 in.	84 in.
Height, bottom to ground	41 in.	41 in.
Height, bottom to ground w/risers	45 in.	45 in.
Mixing Tank		
Length	144 in.	168 in.
Width	60 in.	72 in.
Height of main tank	48 in.	48 in.
Height of front flare	62 in.	62 in.
Unloading Door Opening Size	11 in x 60 in.	11 in. x 72 in.
Tire Size	10.00-15, 8-PR 11L-15, 8-PR	13.50-16.1, 8-PR
PTO Drive Speed	540 RPM ASAE	540 RPM ASAE
Recommended Operating Speed	350/500 RPM	350/500 RPM
Operational Dimensions		
Transport Height	84 in.	84 in.
Transport Width	89 in.	107 in.
Overall Length - Rear to Hitch Center	213 in.	235 in.

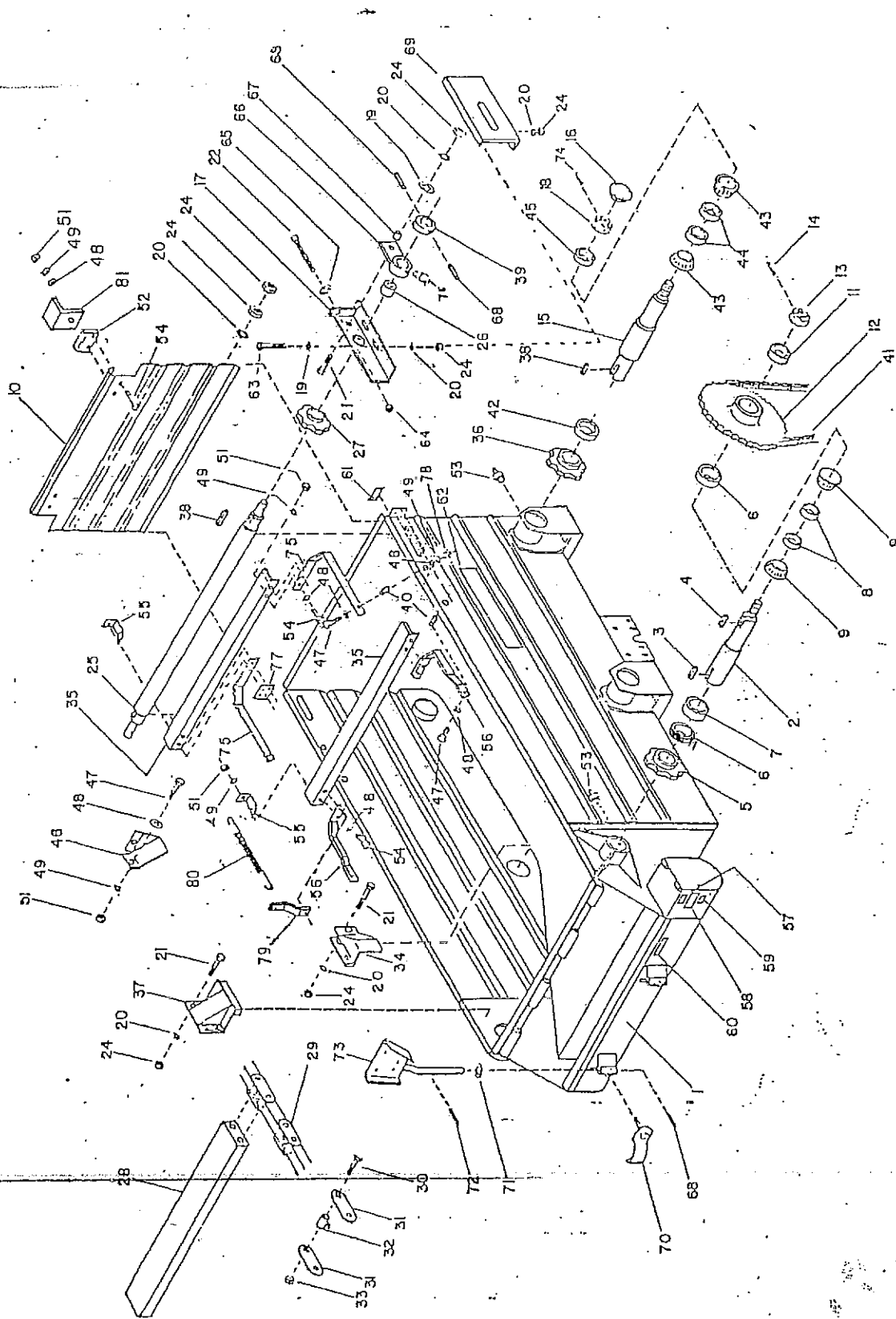
# FRAME ASSEMBLY



# FRAME ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION
1	039630	1	MAIN FRAME, 800B
1	042360	1	MAIN FRAME, 850B
2	044820	2	SPINDLE, 800B
2	042270	2	SPINDLE, 850B
3	007580	2	WHEEL, HEAVY DUTY 15 x 6 800B
3	018710	2	WHEEL, HEAVY DUTY 15 x 8 800B
3	032990	2	WHEEL, HEAVY DUTY 15 x 10 800B
3	042260	2	WHEEL, HEAVY DUTY 11 x 16.1 850B
4	035420	2	HUB CAP 800B
4	042280	2	HUB CAP 850B
5	020710	-	NUT, HEX SLOTTED 3/4"
6	026630	-	PIN, COTTER 5/32" x 1-1/2"
7	020720	-	WASHER, FLAT 3/4"
8	012630	2	BEARING, OUTSIDE WHEEL
9	018860	2	RACE, OUTSIDE WHEEL BEARING
10	007590	2	HUB, HEAVY DUTY 800B
10	042330	2	HUB, HEAVY DUTY 850B
11	018930	2	RACE, INSIDE WHEEL BEARING 800B
11	042320	2	RACE, INSIDE WHEEL BEARING 850B
12	007600	2	BEARING, INSIDE WHEEL 800B
12	042310	2	BEARING, INSIDE WHEEL 850B
13	151630	1	CRANK ASSEMBLY
14	167160	1	PIN & CHAIN ASSY
15	132990	1	MOUNTING TUBE
16	151640	1	KIT, THRUST WASHER ASSY
17	151670	1	TUBE, INNER ASSY
18	167150	1	TUBE, OUTER ASSY
19	133020	1	JACK, COMPLETE ASSY
20	046700	-	BOLT, HUB 800B
21	990510	-	NUT, HEX LOCK 1"
22	003350	-	WASHER, LOCK SPRING 1"
23	036730	-	BOLT, HHCS 3/4" x 6-1/2"
24	124780	1	BAR, HITCH
25	121130	2	SEAL, INNER WHEEL BEARING
26	046710	-	NUT, WHEEL 800B
26	042440	-	BOLT, LUG 850B
27	036800	-	WASHER, LOCK SPRING 3/4"
28	036750	-	NUT, HEX 3/4"
29	036740	1	HITCH CLEVIS
30	119290	1	SAFETY CHAIN
31	038560	-	BOLT, HHCS 1/2" x 4"
32	005370	-	WASHER, LOCK 1/2"
33	005360	-	NUT, HEX 1/2"
34	041980	2	BRACKET, SPINDLE MOUNTING
35	014770	-	BOLT, HHCS 1/2" x 1-1/2"
36			
37	148640	2	TIRE, 10:00 x 15-8PLY 800B
37	148630	2	TIRE, 11L x 15-8PLY 800B
37	050230	2	TIRE, 13.5 x 16.1-8PLY 850B
38	046690	-	BRACKET, SPINDLE MOUNTING OUTER
39	154420	2	VALVE STEM, CORE W/CAP

# SILAMIX BOX AND DRIVE ASSY



# SILAMIX BOX AND DRIVE ASSY

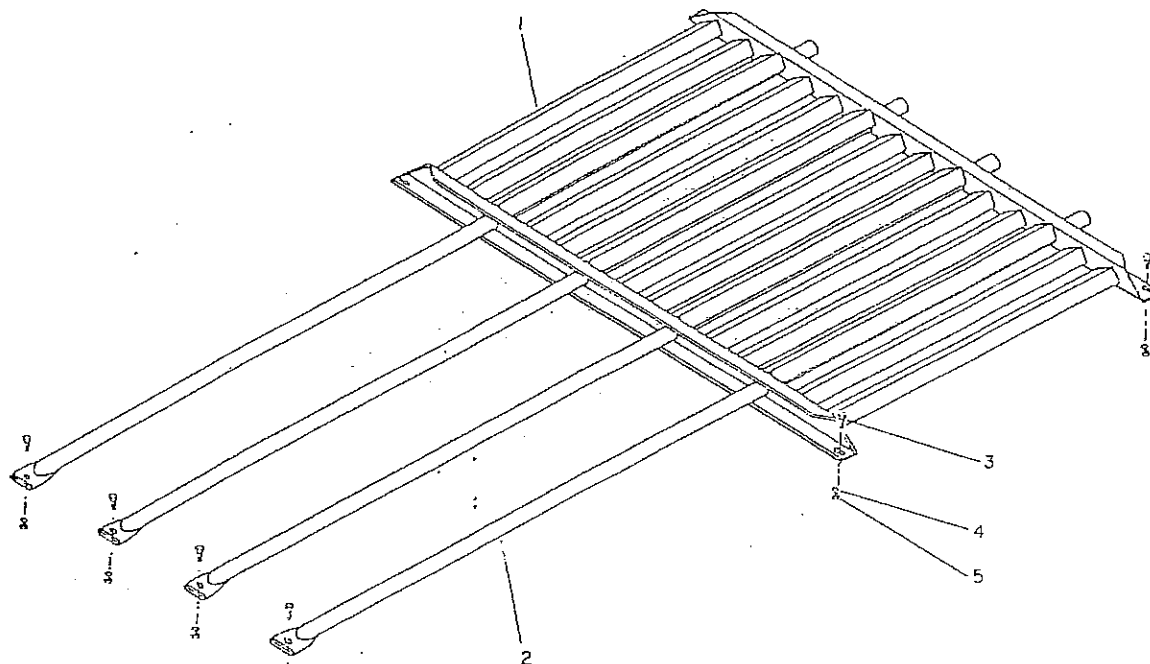
ITEM	PART NUMBER	QTY	DESCRIPTION
1	115600	1	SILAMIX BOX ASSY 800B
1	115610	1	SILAMIX BOX ASSY 850B
2	042020	2	SPINDLE, DRIVE
3	042030	2	KEY, HARD SQ. 1/2" x 3-1/4"
4	042040	2	KEY, HARD SQ. 1/2" x 2-3/4"
5	042050	2	SPROCKET, INSIDE DRIVE
6	224670	4	SEAL, DRIVE HUB 2-7/8"
7	224660	2	SPACER, 2-1/4"
8	042080	4	RACE, INNER & OUTER BEARING
9	042090	4	BEARING
10	1783807	1	REAR BAFFLE 800B
10	1792008	1	REAR BAFFLE 850B
11	039930	-	WASHER, FLAT 3/4"
12	042120	2	SPROCKET, 60C103
13	020710	-	NUT, HEX SLOTTED 3/4"
14	035850	-	PIN, COTTER 5/32"x 1-1/4"
15	042130	4	SPINDLE, IDLER
16	038820	4	HUB CAP
17	152600	1	TAKE-UP ASSY, L.H.*
17	152590	1	TAKE-UP ASSY, R.H.*
18	042110	-	NUT, HEX SLOTTED 1"
19	005200	-	WASHER, FLAT 1/2"
20	005370	-	WASHER, LOCK 1/2"
21	010730	-	BOLT, 1/2" x 1-1/4"
22	152580	2	ROD, TAKE-UP*
23			
24	005360	-	NUT, HEX 1/2"
25	155230	1	SHAFT, IDLER ADJUSTMENT 800B
25	155240	1	SHAFT, IDLER ADJUSTMENT 850B
26	044550	2	BUSHING, OILITE
27	152700	2	SPROCKET, IDLER UPPER
28	040070	9	SLAT 800B
28	042650	10	SLAT 850B
29	042141	1	APRON CHAIN COMP. W/O-SLATS 800B
29	042661	1	APRON CHAIN COMP. W/O-SLATS 850B
29	213910	2	CHAIN ASSY, 10 BOLT SECTION 800B
29	123080	16	CHAIN ASSY, 12 BOLT SECTION 800B
29	123080	18	CHAIN ASSY, 12 BOLT SECTION 850B
29	123090	2	CHAIN ASSY, 14 BOLT SECTION 850B
30	042150	-	BOLT, SPECIAL 5/8" x 3-1/4"
30	042160	-	BOLT, SPECIAL FOR SLATS 5/8" x 3-5/8"
31	040080	-	SIDE BAR
32	042170	-	SPACER, ROLLER
33	038850	-	NUT, HEX LOCK 5/8"
34	040120	1	CHAIN CLEANER, R.H.
34	040130	1	CHAIN CLEANER, L.H.
35	162670	2	SCRAPER ANGLE 800B
35	162770	2	SCRAPER ANGLE 850B
36	040150	4	SPROCKET, IDLER LOWER CAST
37	040160	2	CHAIN GUIDE
38	021530	4	KEY, SQ 3/8" x 2"
39	155250	2	COLLAR IDLER END*
40	033460	4	SPACER TUBE
41	042210	2	CHAIN, #60 128P W/CONN LINK
41	010120	2	LINK, #60 CONNECTOR
42	039920	4	SEAL, 2"
43	007600	8	CONE, BEARING
44	018930	8	RACE, INNER & OUTER BEARING
45	042180	-	WASHER, FLAT 1"
46	042190	1	CLEANER PLATE, L.H.
46	042200	1	CLEANER PLATE, R.H.
47	006690	-	BOLT, 3/8" x 1-1/4"
48	021190	-	WASHER, FLAT 3/8"
49	021180	-	WASHER, LOCK 3/8"
50	005390	-	BOLT, CRG 1/2" x 1"
51	027260	-	NUT, HEX 3/8"
52	1783602	2	STRIP, WEAR
53	115590	-	FITTING, GREASE
54	011370	-	BOLT, HHCS 3/8" x 1-1/2"

\*AFTER SERIAL NUMBER 80800A2678

ITEM	PART NUMBER	QTY	DESCRIPTION
55	1783300	4	GUIDE, SCRAPER
56	181050	2	BAR, SCRAPER
57	121150	1	AMBER REFLECTOR
58			
59			
60			
61	121160	2	RED DEFLECTOR
62	043281	4	
63	023950	-	BOLT, HHCS 1/2" x 2"
64	020450	-	NUT, HEX 5/8"
65	035210	-	WASHER, FLAT 5/8"
66	152560	2	BEARING*
67	152710	2	SPACER*
68	012560	-	ROLL PIN*
69	1792202	1	SHIELD, R.H.
69	1792105	1	SHIELD, L.H.
70	155490	1	LOCK, SCALE PIVOT
71	073560	-	WASHER, FLAT 7/8"
72	991100	-	PIN, EXPANSION
73	224800	1	BRACKET WELD ASSY, SCALE PIVOT
74	003950	-	PIN, COTTER 3/16" x 2"
75	162680	2	BRACKET, SCRAPER END
76	035170	-	ZERK, 1/8
77	1783203	2	HINGE, RUBBER
78	131720	-	NUT, HEX LOCK 3/8"
79	197840	2	BRACKET, SPRING
80	017200	2	SPRING
81	218960	2	BRACKET

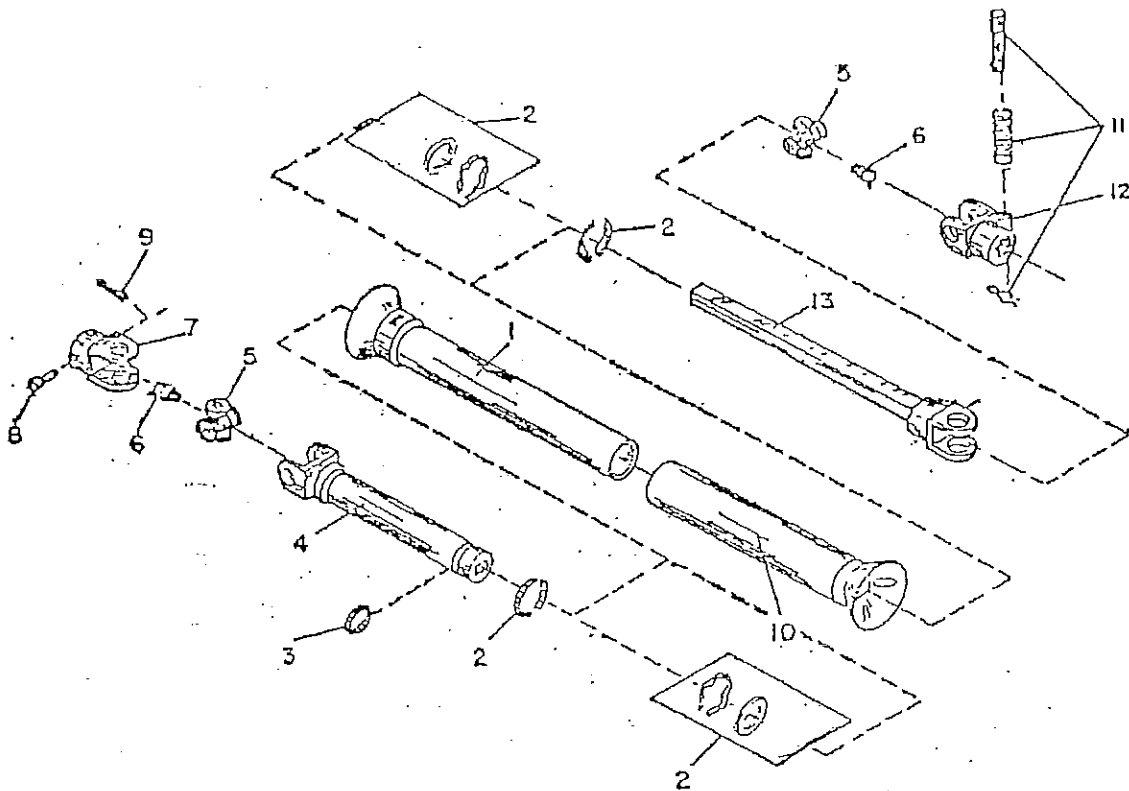
\*AFTER SERIAL NUMBER 80800A2678

# GRILL GRATE GUARD

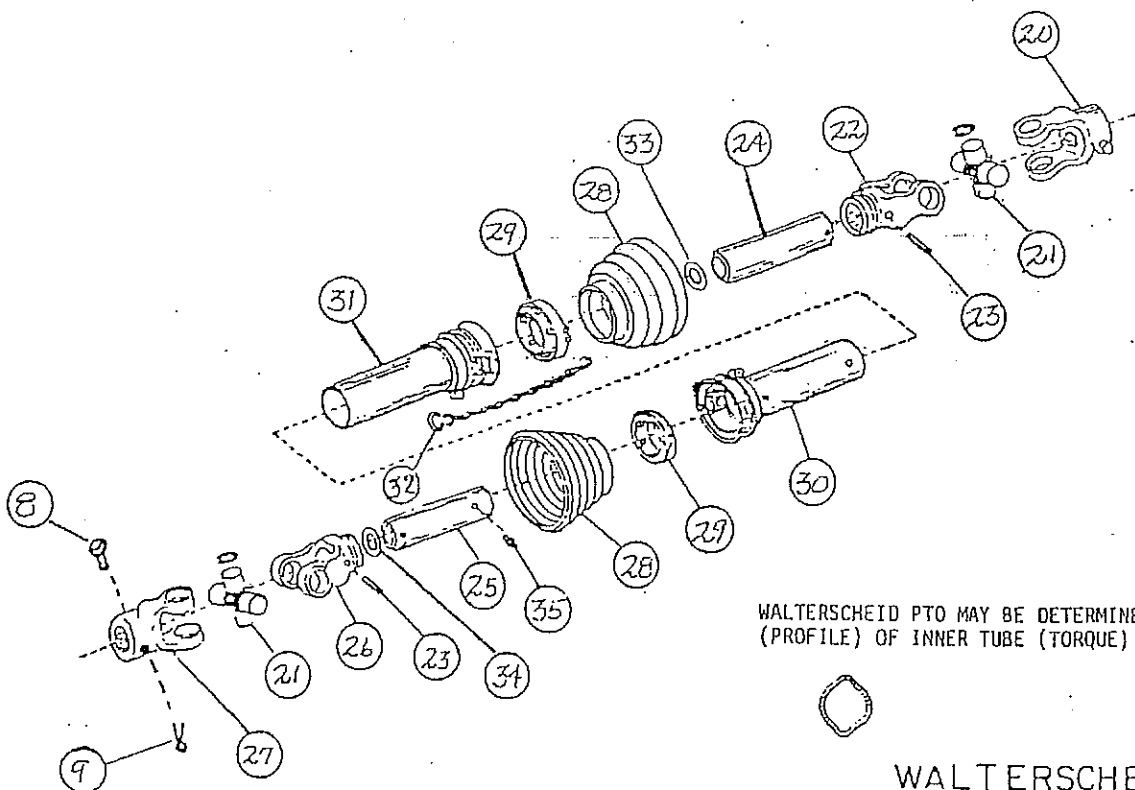


ITEM	PART NUMBER	QTY	DESSCRIPTION
1	207790	1	GRATE 800B
1	207800	1	GRATE 850B
2	207810	4	GRILL 800B
2	207820	5	GRILL 850B
3	012260	-	BOLT, HH 3/8" x 1"
4	021180	-	WASHER, LOCK 3/8"
5	027260	-	NUT, HEX 3/8"

# POWER SHAFT ASSEMBLY



REXNORD  
PRIOR TO SERIAL #L800B3292



WALTERSCHEID PTO MAY BE DETERMINED BY SHAPE  
(PROFILE) OF INNER TUBE (TORQUE) MEMBERS.

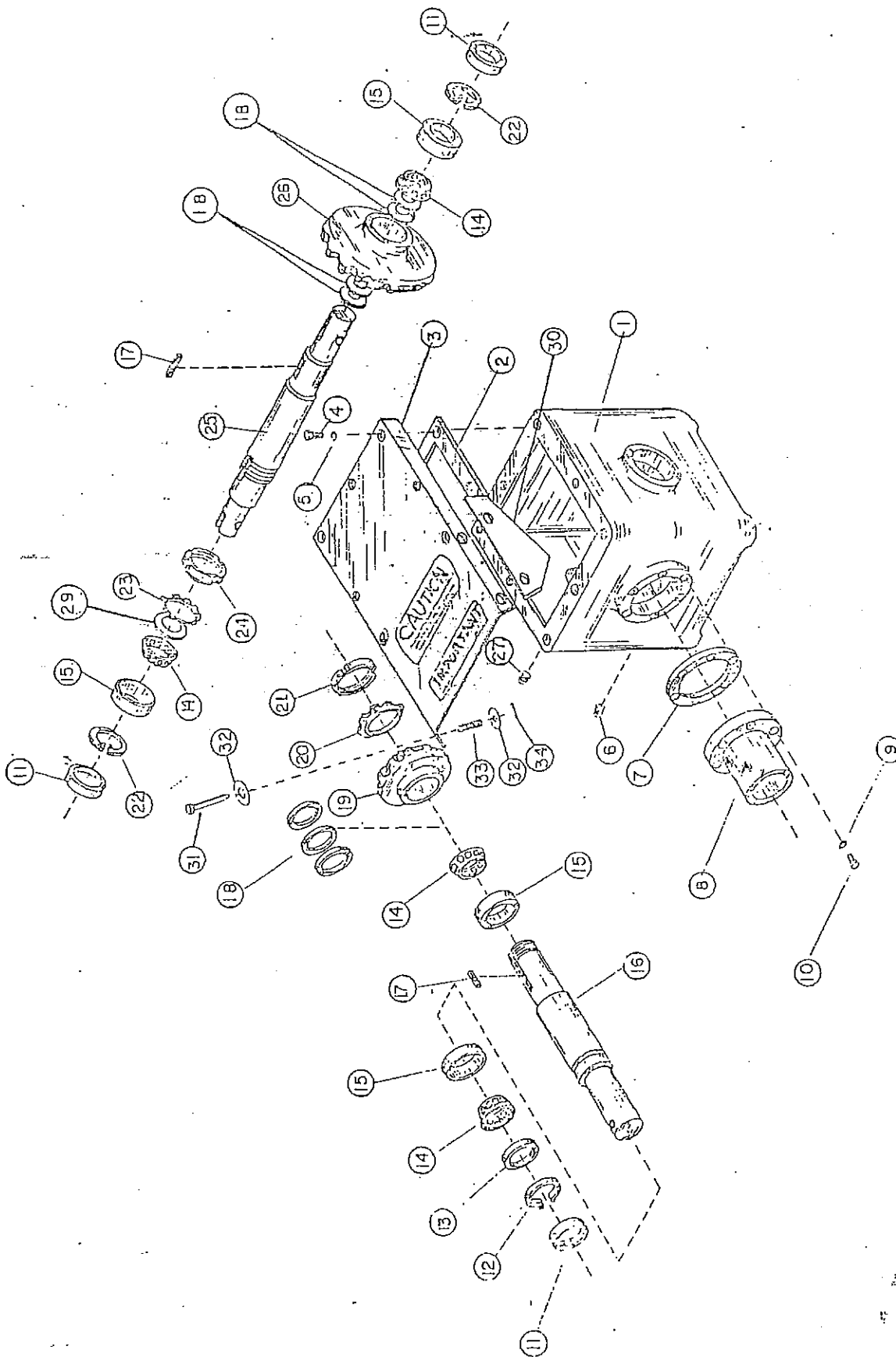
WALTERSCHEID  
AFTER SERIAL #L800B3293 INCLUSIVE



# POWER SHAFT ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION
1	181080	1	SHIELD, INNER SAFETY & BELL
2	039890	2	BEARING, NYLON CENTER SUPPORT HALF
2A	181100	2	KIT, BEARING
3	010330	1	BEARING, NYLON CENTER SUPPORT
4	042870	1	YOKE, TUBE & SLEEVE
5	039780	1	KIT, CENTER CROSS REPAIR
6	035170	-	FITTING, GREASE 1/8
7	039770	1	YOKE, 1-1/4" BORE
8	020680	-	PIN, CLEVIS 5/16" x 2-3/8"
9	020700	-	PIN, COTTER 5/32" x 1"
10	181090	1	SHIELD, OUTER SAFETY & BELL
11	021340	-	KIT, LOCK PIN, SPRING & LOCK
12	039800	1	YOKE, Q.D. TRACTOR
13	155930	1	YOKE AND SHAFT
	156060		COMPLETE PTO - REXNORD
	155920	1	PTO, TRACTOR HALF
	046670	1	PTO, IMPLEMENT HALF
20	188840	1	YOKE, 1-3/8" 6SPL 540 RPM STD
21	188860	1	KIT, CROSS & BEARING
22	197630	1	YOKE, INBOARD OV
23	190740	-	PIN, SPRING 10mm x 65mm
24	203530	1	INNER PROFILE OV
25	203540	1	OUTER PROFILE I
26	203550	1	YOKE, INBOARD I
27	203560	1	YOKE, 1-1/4" RB
28	197660	1	SHIELD CONE 4 RIB
29	197670	2	BEARING RING SC14
30	203570	1	TUBE, OUTER SHIELD
31	203580	1	TUBE, INNER SHIELD
32	182890	1	SAFETY CHAIN
33	203590	1	MALE PLUG
34	203600	1	FEMALE PLUG
35	196890	1	ZERK, GREASE
	182860	1	KIT, Q.D. PIN
	203620		COMPLETE PTO - WALTERSCHEID
	203630	1	PTO, TRACTOR HALF
	203640	1	PTO, IMPLEMENT HALF

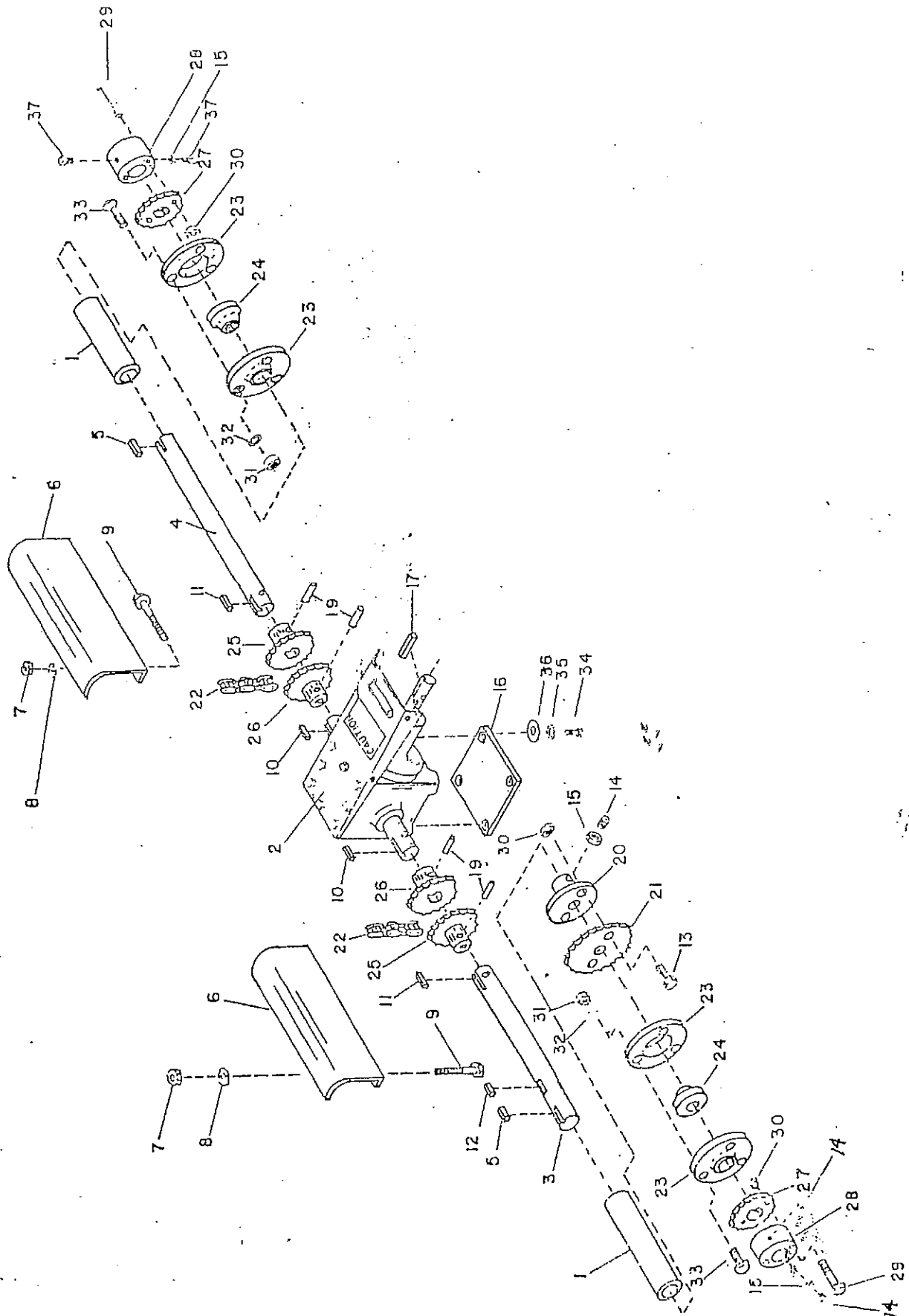
# GEARBOX ASSEMBLY



# GEARBOX ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION
1	044280	1	GEARBOX HOUSING
2	044290	1	GASKET
3	181040	1	SHIELD ASSY, GEARBOX
4	012140	-	BOLT, HHCS 5/16" x 3-4"
5	023620	-	WASHER, LOCK 5/16"
6	044310	1	PLUG, PIPE 3/4"
7	044320	1	GASKET
8	044330	1	HOUSING, INPUT
9	021180	-	WASHER, LOCK 3/8"
10	006690	-	BOLT, 3/8" x 1-1/4"
11	044340	3	SEAL
12	044350	1	RING, RETAINING
13	044360	-	WASHER, FLAT 1-3/8"
14	044370	4	CONE, BEARING
15	018850	4	CUP, BEARING
16	044390	1	SHAFT, INPUT
17	044400	2	KEY, SQ 5/16" x 1-3/8"
18	044410	-	WASHER, FLAT 1-3/8"
18	044420	-	WASHER, FLAT 1-3/8"
18	044430	-	WASHER, FLAT 1-3/8"
19	044440	1	GEAR, BEVEL 15T
20	044450	-	WASHER, LOCK 1-1/8"
21	044460	-	NUT, LOCK 1-11/64"
22	044470	2	RING, RETAINING
23	044480	-	WASHER, LOCK 1-9/16"
24	044490	-	NUT, LOCK 1-9/16"
25	044500	1	SHAFT, OUTPUT
26	044510	1	GEAR, BEVEL 30T
27	020340	1	PLUG, PIPE 3/4" W/VENT
28	044520	-	GEARBOX, COMP ASSY
29	046790	-	WASHER, SPACER
30	181010	2	SHIELD, END
31	043770	2	PIN, CLEVIS 1/4" x 1-1/4"
32	022920	-	WASHER, FLAT 5/16"
33	042390	2	SPRING, COMPRESSION
34	023090	-	PIN, COTTER 3/32" x 3/4"

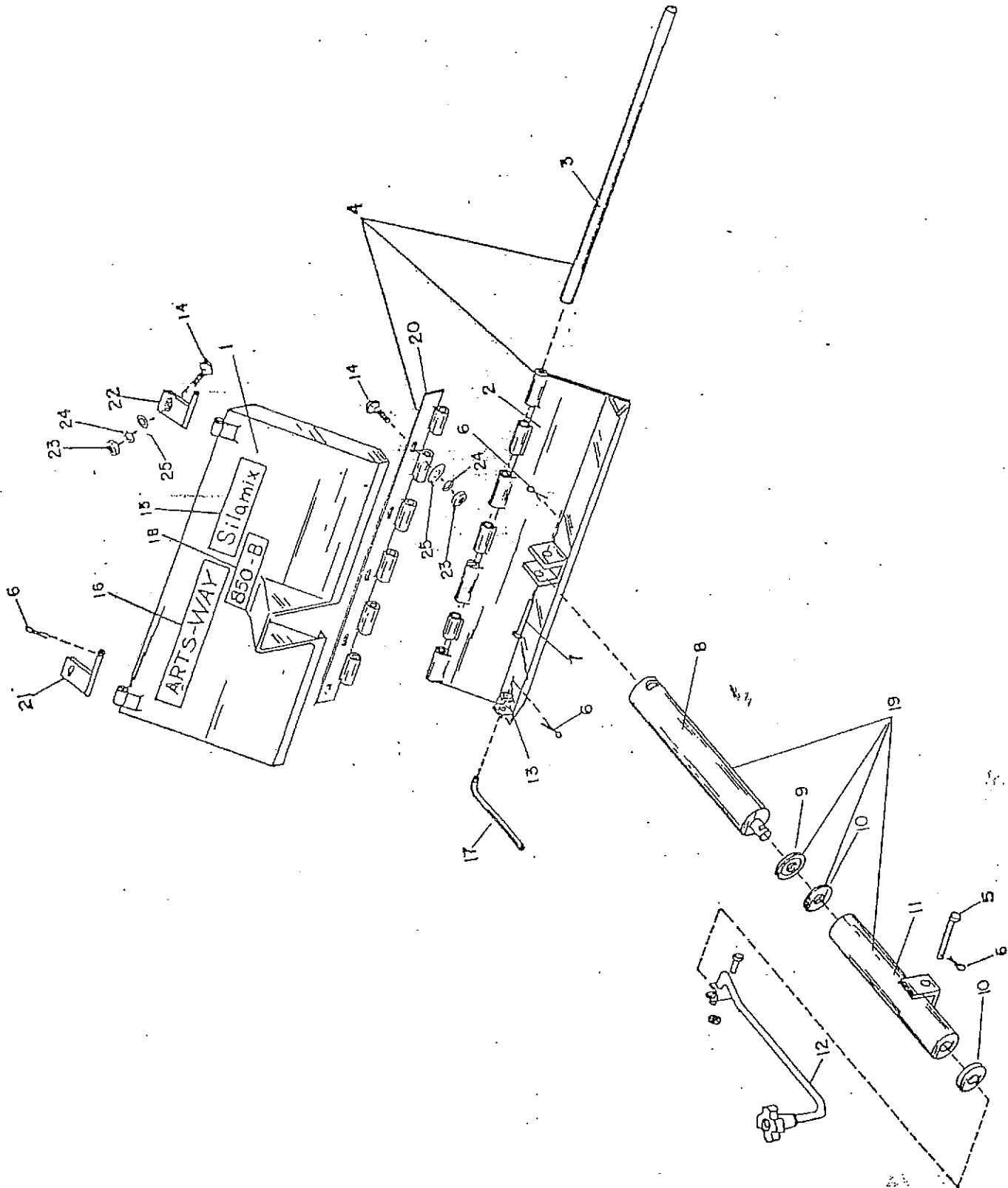
# GEARBOX IN AND OUT DRIVE



# GEARBOX IN AND OUT DRIVE

ITEM	PART NUMBER	QTY	DESCRIPTION
1	181230	2	SHIELD, SPIN 800B
1	181240	2	SHIELD, SPIN 850B
2	044520	1	GEARBOX
3	181220	1	SHAFT, RIGHT DRIVE 800B
3	181200	1	SHAFT, RIGHT DRIVE 850B
4	181210	1	SHAFT, LEFT DRIVE 800B
4	181190	1	SHAFT, LEFT DRIVE 850B
5	020220	2	KEY, SQ 5/16" x 1-1/4"
6	181250	2	SHIELD, COUPLER
7	027660	-	NUT, HEX 1/4"
8	029440	-	WASHER, LOCK 1/4"
9	012051	-	BOLT, HHCS 1/4" x 3/4"
10	020400	2	KEY, SQ 5/16" x 2"
11	021630	2	KEY, SQ 5/16" x 1-1/2"
12	020760	1	KEY, SQ 5/16" x 1-1/8"
13	042960	-	BOLT, HHCS 1/4" x 1"
14	039730	-	SCREW, SSH 5/16" x 1"
15	033500	-	NUT, HEX JAM 5/16"
16	112310	1	PLATE, MOUNTING
17	022530	1	KEY, SQ 5/16" x 1-3/4"
18			
19	013600	4	PIN, EXPANSION 1/4" x 2"
20	020080	1	COUPLER, SHEAR
21	043400	1	SPROCKET, 60A18
22	163770	2	CHAIN, #60 14P INCL. CONN. LINK
23	019150	4	FLANGETTE, BEARING
24	151250	2	BEARING, BALL 1-1/4" W/LOCK COLLAR
25	181180	2	SPROCKET, 60B14 1-1/4"
26	181160	2	SPROCKET, 60B14 1-5/16"
27	149350	2	SPROCKET, 60A14
28	149370	2	HUB, SHEAR
29	149380	-	BOLT, HHCS 1/4" x 2-1/4" 800B
29	171070	-	BOLT, HHCS 1/4" x 2-1/4" 850B
30	042370	-	NUT, LOCK 1/4"
31	023630	-	NUT, HEX 5/16"
32	023620	-	WASHER, LOCK 5/16"
33	032970	-	BOLT, CRG 5/16" x 1"
34	010730	-	BOLT, HHCS 1/2" x 1-1/4"
35	005370	-	WASHER, LOCK 1/2"
36	005200	-	WASHER, FLAT 1/2"

# DOOR ASSEMBLY



# DOOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION
1	042680	1	AUGER HOOD 800B
1	042730	1	AUGER HOOD 850B
2	042690	1	DOOR ASSY 800B
2	042740	1	DOOR ASSY 850B
3	042700	1	ROD, HINGE 800B
3	042750	1	ROD, HINGE 850B
4	047080	1	GATE ASSY 800B
4	047090	1	GATE ASSY 850B
5	043740	-	PIN, CLEVIS 3/8" x 3-3/4"
6	020700	-	PIN, COTTER 5/32" x 1"
7	021420	-	PIN, CLEVIS 3/8" x 2-3/4"
8	042920	1	TUBE, INNER JACK
9	042930	1	BEARING, THRUST 1/2"
10	044050	-	WASHER, FLAT 1/2"
11	042940	1	TUBE, OUTER JACK
12	151630	1	CRANK ASSY
13	040250	-	WASHER, FLAT 1/2"
14	020170	-	BOLT, CRG 3/8" x 1"
15			
16			
17	042720	1	INDICATOR ROD
18			
18			
18			
19	253760	1	JACK, COMP ASSY
20	044940	1	BRACKET, DOOR MTG 800B
20	044950	1	BRACKET, DOOR MTG 850B
21	046980	1	HINGE POST, LEFT
22	046990	1	HINGE POST, RIGHT
23	027260	-	NUT, HEX 3/8"
24	021180	-	WASHER, LOCK 3/8"
25	021190	-	WASHER, FLAT 3/8"

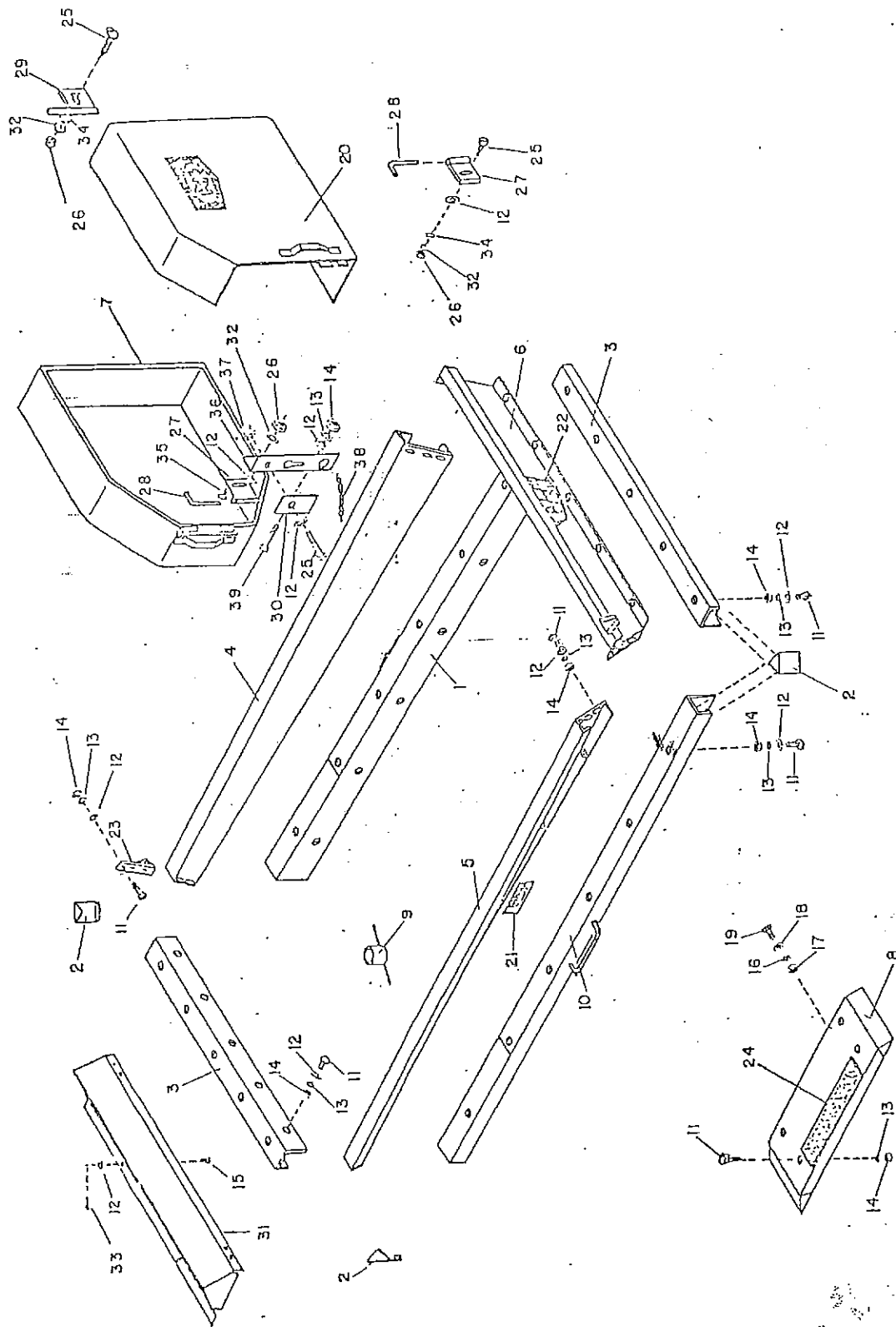




# DISCHARGE AUGER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION
1	041930	1	CLUTCH ROD 800B
1	041940	1	CLUTCH ROD 850B
2	117650	1	AUGER, MAIN DISCHARGE 800B
2	117640	1	AUGER, MAIN DISCHARGE 850B
3	020700	-	PIN, COTTER 5/32" x 1"
4	012260	-	BOLT, HHCS 3/8" x 1"
5	041920	1	ARM, CLUTCH
6	041850	1	SHAFT, HINGE
7	012140	-	BOLT, HHCS 5/16" x 3/4"
8	041860	1	BRACKET, TOP SUPPORT
9	023630	-	NUT, HEX 5/16"
10	041900	1	DISCHARGE SPOUT 800B
10	121000	1	DISCHARGE SPOUT 850B
11	114320	1	PLATE, CLEANER
12	021180	-	WASHER, LOCK 3/8"
13	041910	1	LEVER, CLUTCH
14	021560	1	GRIP
15	012170	-	EYEBOLT, SPECIAL
16	021190	-	WASHER, FLAT 3/8"
17	006690	-	BOLT, HHCS 3/8" x 1-1/4"
18	023060	-	NUT, LOCK HEX 3/8"
19	007080	-	BOLT, HHCS 1/2" x 2-1/2"
20	025800	1	PLUG, DRIVE
21	005360	-	NUT, HEX 1/2"
22	025770	-	WASHER, FLAT 1-1/4"
23	025780	1	SPACER, 1-1/4" PIPE
24	008670	1	BEARING, 1-1/4" FLANGE BLOCK
25	005900	-	BOLT, HHCS 5/16" x 1"
26	023620	-	WASHER, LOCK 5/16"
27	049190	1	CHAIN, 22 LINKS
28	020080	1	HUB, SHEAR
29	043400	1	SPROCKET, 60A18
30	113130	1	CHAIN, #60 98P INCL. CONN. LINK
31	021840	2	SPROCKET, 15T IDLER
32	005200	-	WASHER, FLAT 1/2"
33	005370	-	WASHER, LOCK 1/2"
34	014770	-	BOLT, HHCS 1/2" x 1-1/2"
35	035060	-	KEY, SQ 5/16" x 2-1/2"
36	025750	1	SPROCKET, 60A18
37	025730	1	OILITE BUSHING
38	165130	1	DRIVE CLUTCH ASSY
39	025710	1	RING, SNAP
40	111780	1	CLUTCH, SLIDING L.H.
41	013750	2	BEARING, 1/2"
42	025700	1	SPRING, COMPRESSION
43	025690	-	WASHER, FLAT 3/8"
44	013170	1	ZERK, GREASE STRAIGHT 1/8
45			
46	042960	-	BOLT, 1/4" x 1"
47	042370	-	NUT, HEX 1/4"

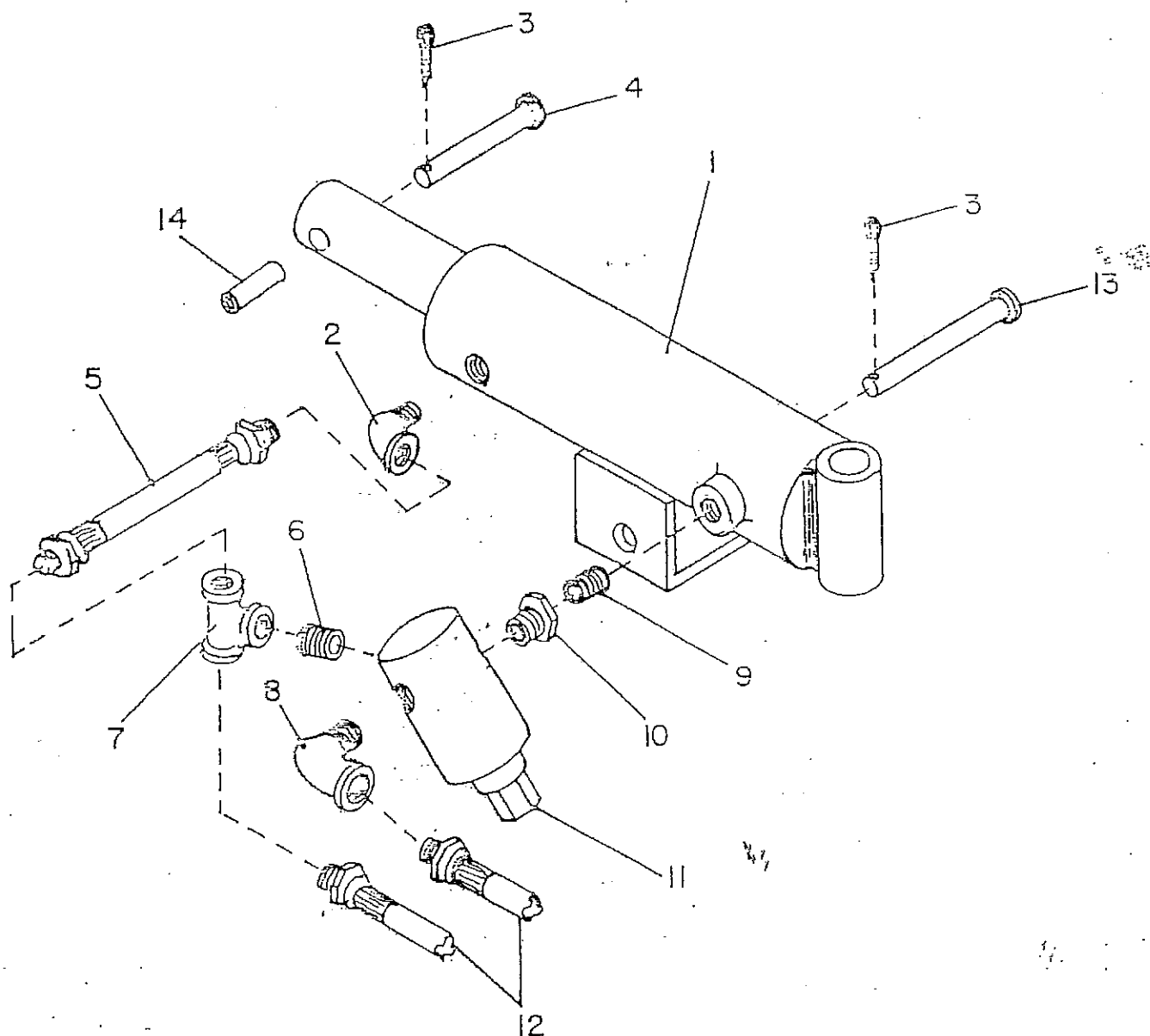
# SIDE BOARDS



# SIDE BOARDS

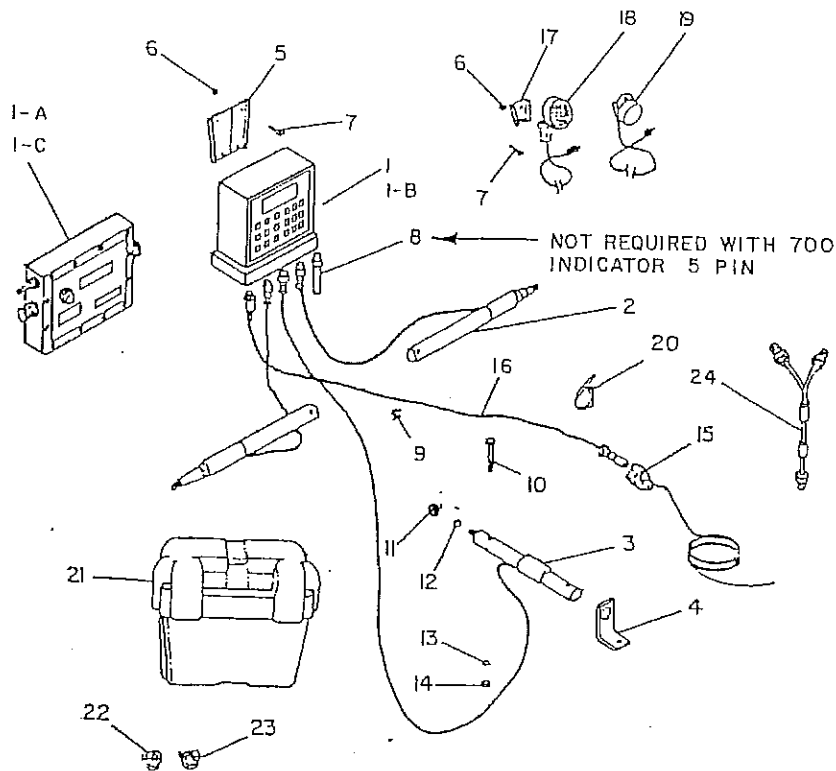
ITEM	PART NUMBER	QTY	DESCRIPTION
1	040480	1	RAIL, SIDE L.H. 800B
1	042500	1	RAIL, SIDE L.H. 850B
2	040490	4	CORNER
3	040500	2	RAIL, FRONT & BACK 800B
3	042510	2	RAIL, FRONT & BACK 850B
4	040510	1	BOARD, SIDE L.H. 800B
4	042520	1	BOARD, SIDE L.H. 850B
5	040520	1	BOARD, SIDE R.H. 800B
5	042530	1	BOARD, SIDE R.H. 850B
6	165310	1	BOARD, SIDE FRONT 800B
6	165320	1	BOARD, SIDE FRONT 850B
7	113100	1	SHIELD, R.H. DRIVE
8	040543	2	FENDER, R.H. & L.H. W/ANTI-SLIP TAPE 800B
8	042591	2	FENDER, R.H. & L.H. W/ANTI-SLIP TAPE 850B
9	037050	1	CAP, DRAIN
10	040550	1	RAIL, SIDE R.H. 800B
10	042560	1	RAIL, SIDE R.H. 850B
11	020170	-	BOLT, CRG 3/8" x 1"
12	021190	-	WASHER, FLAT 3/8"
13	021180	-	WASHER, LOCK 3/8"
14	027260	-	NUT, HEX 3/8"
15	1112587	-	PIN, CLEVIS 3/8" x 1-3/32"
16	005370	-	WASHER, LOCK 1/2"
17	005360	-	NUT, HEX 1/2"
18	005200	-	WASHER, FLAT 1/2"
19	030470	-	BOLT, CRG 1/2" x 1-1/4"
20	042490	1	SHIELD, L.H. DRIVE
21			
22			
23	047130		BRACKET, REINFORCEMENT R.H.
23	047131	1	BRACKET, REINFORCEMENT L.H.
24	117720	-	TAPE, ANTI-SLIP SURFACE 800B
24	117730	-	TAPE, ANTI-SLIP SURFACE 850B
25	032970	-	BOLT, CRG 5/16" x 1"
26	023630	-	NUT, HEX 5/16"
27	047100	2	HINGE, SHIELD
28	047110	2	PIN
29	047020	4	HINGE, POST
30	053400	1	PLATE, LOCK
31	1783106	1	SHIELD, REAR 800B
31	1791702	1	SHIELD, REAR 850B
32	023620	-	WASHER, LOCK 5/16"
33	034360	-	PIN, COTTER 1/8" x 1"
34	022920	-	WASHER, FLAT 5/16"
35	032970	-	BOLT, CRG 5/16" x 1"
36	1784501	1	HOLDER, PTO
37	025670	-	NUT, HEX 5/16"
38	073280	1	CHAIN
39	006690	-	BOLT HHCS 3/8" x 1-1/4"
40			
41			

## 2-WAY HYDRAULIC CYLINDER



ITEM	PART NUMBER	QTY	DESCRIPTION
1	043631	1	2-WAY HYDRAULIC CYLINDER 2-1/2" x 8"
2	043660	1	ELBOW, 90 DEG STREET
3	020700	-	PIN, COTTER 5/32" x 1"
4	021420	-	PIN, CLEVIS 3/8" x 2-3/4"
5	041750	1	HOSE, 1/2" x 10"
6	006310	1	NIPPLE, CLOSE 1/2"
7	006320	1	TEE, PIPE 1/2"
8	006240	1	ELBOW, 90 DEG STREET
9	043710	1	NIPPLE, CLOSE 3/8"
10	043690	1	BUSHING, REDUCER
11	047010	1	VALVE, RELIEF
12	005710	2	HOSE, HYDRAULIC 1/2" x 9"
13	043740	-	PIN, CLEVIS, 3/8" x 3-3/4"
14	043730	1	BUSHING, 3/8" ID

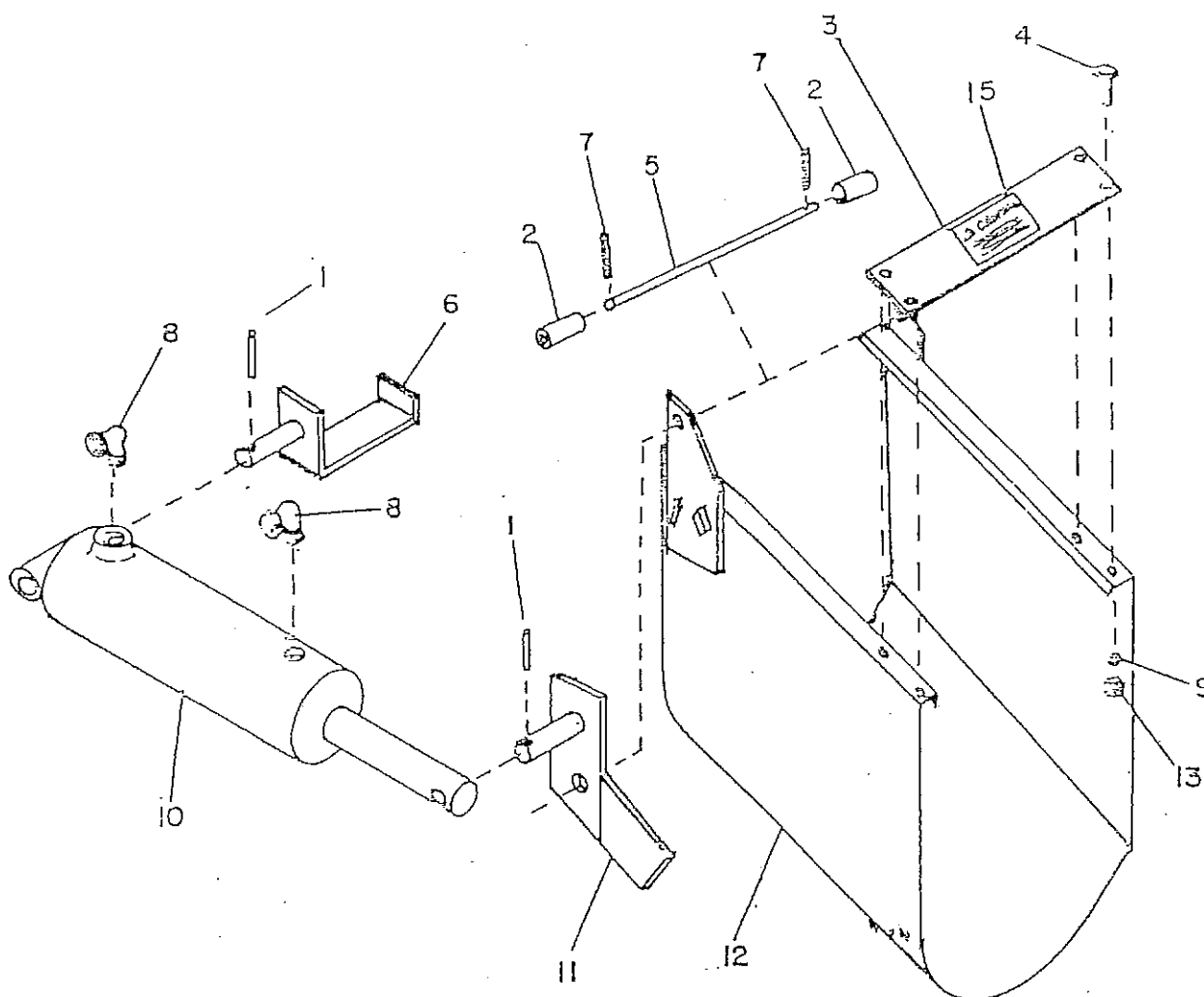
# ELECTRONIC SCALE ASSEMBLY



155782 KIT, SCALE 5-PIN SYSTEM 800B  
155822 KIT, SCALE 5-PIN SYSTEM 850B

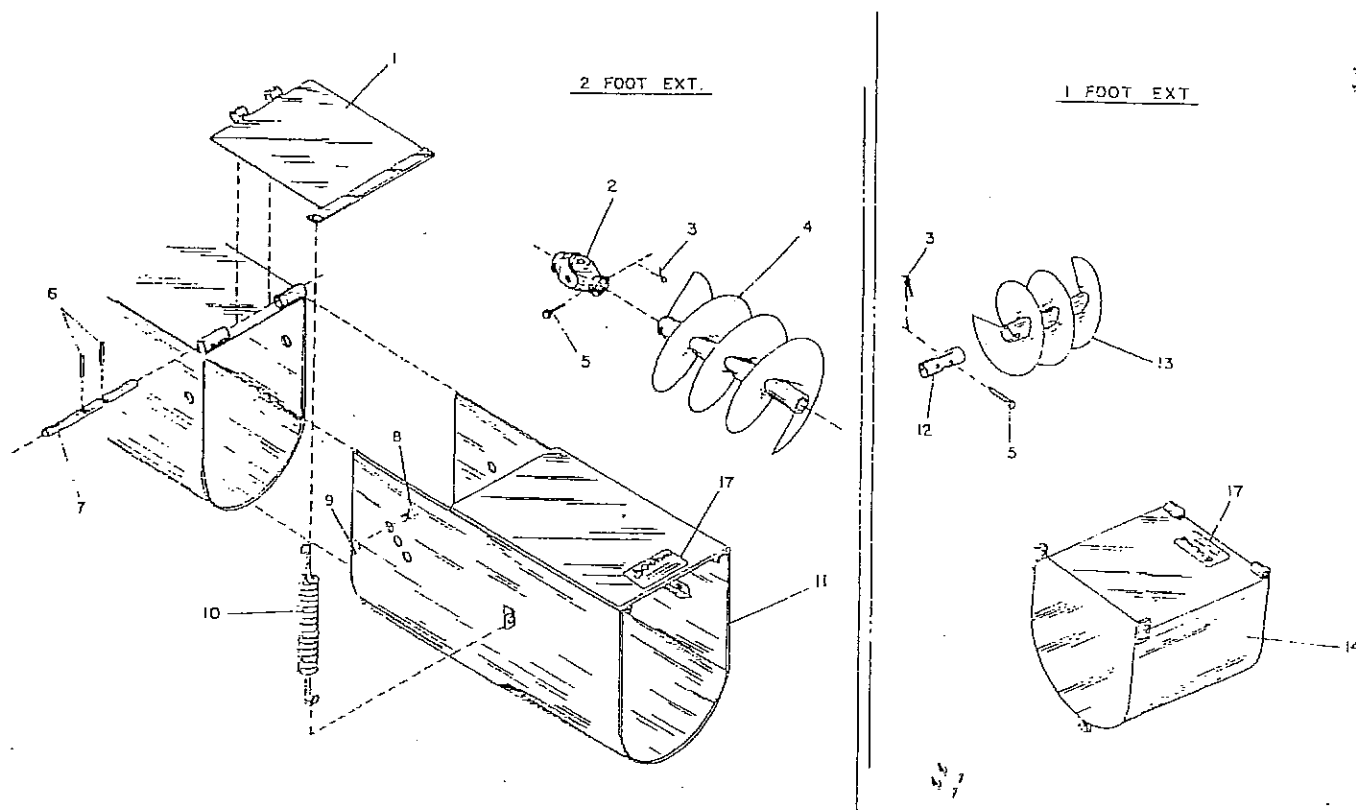
ITEM	PART NUMBER	QTY 5-PIN	QTY 4-PIN	DESCRIPTION
1	219794	1	-	INDICATOR, 1000R SCALE 5-PIN
1A	243110	1	-	INDICATOR, 700 SCALE 5-PIN (NO ADAPTER PLUG REQ)
1B	223894	-	1	INDICATOR, 1000R SCALE 4-PIN
1C	243130	-	1	INDICATOR, 700 SCALE 4-PIN
2	044151	2	-	WEIGHBAR, AXLE 5-PIN (800B)
2	044150	-	2	WEIGHBAR, AXLE 4-PIN (800B)
2	040611	2	-	WEIGHBAR, AXLE 5-PIN (850B)
2	040610	-	2	WEIGHBAR, AXLE 4-PIN (850B)
3	219870	1	-	WEIGHBAR, HITCH 5-PIN
3	132250	-	1	WEIGHBAR, HITCH 4-PIN
4	036740	1	1	CLEVIS, HITCH
5	036670	1	1	BRACKET, INDICATOR
6	023270	-	-	NUT, FLANGE LOCK 1/4"
7	021240	-	-	SCREW, TRUSS HEAD 1/4" x 1/2"
8	219880	1	-	PLUG, 5-PIN 1000 INDICATOR ONLY
8	036760	-	1	PLUG, 4-PIN ADAPTER
9	036890	3	3	WIRE CLIP
10	036730	-	-	BOLT, HHCS 3/4" x 6-1/2"
11	147310	-	-	NUT, HEX 1"
12	003350	-	-	WASHER, LOCK SPRING TYPE 1"
13	036800	-	-	WASHER, LOCK SPRING TYPE 3/4"
14	036750	-	-	NUT, HEX 3/4"
15	036780	1	1	FEMALE CONNECTOR
16	147060	1	1	POWER CORD, DIGITAL 23'
17	039261	-	-	BRACKET
18	111900	-	-	WARNING LIGHT, DIGITAL
19	111880	-	-	WARNING HORN, DIGITAL
20	149670	12	12	PLASTIC TIE
21	039690	-	-	BATTERY BOX
22	135440	-	-	BATTERY CLAMP, POSITIVE
23	135450	-	-	BATTERY CLAMP, NEGATIVE
24	199090	-	-	DUAL ADAPTER

# OPTIONAL HYDRAULIC DISCHARGE CHUTE



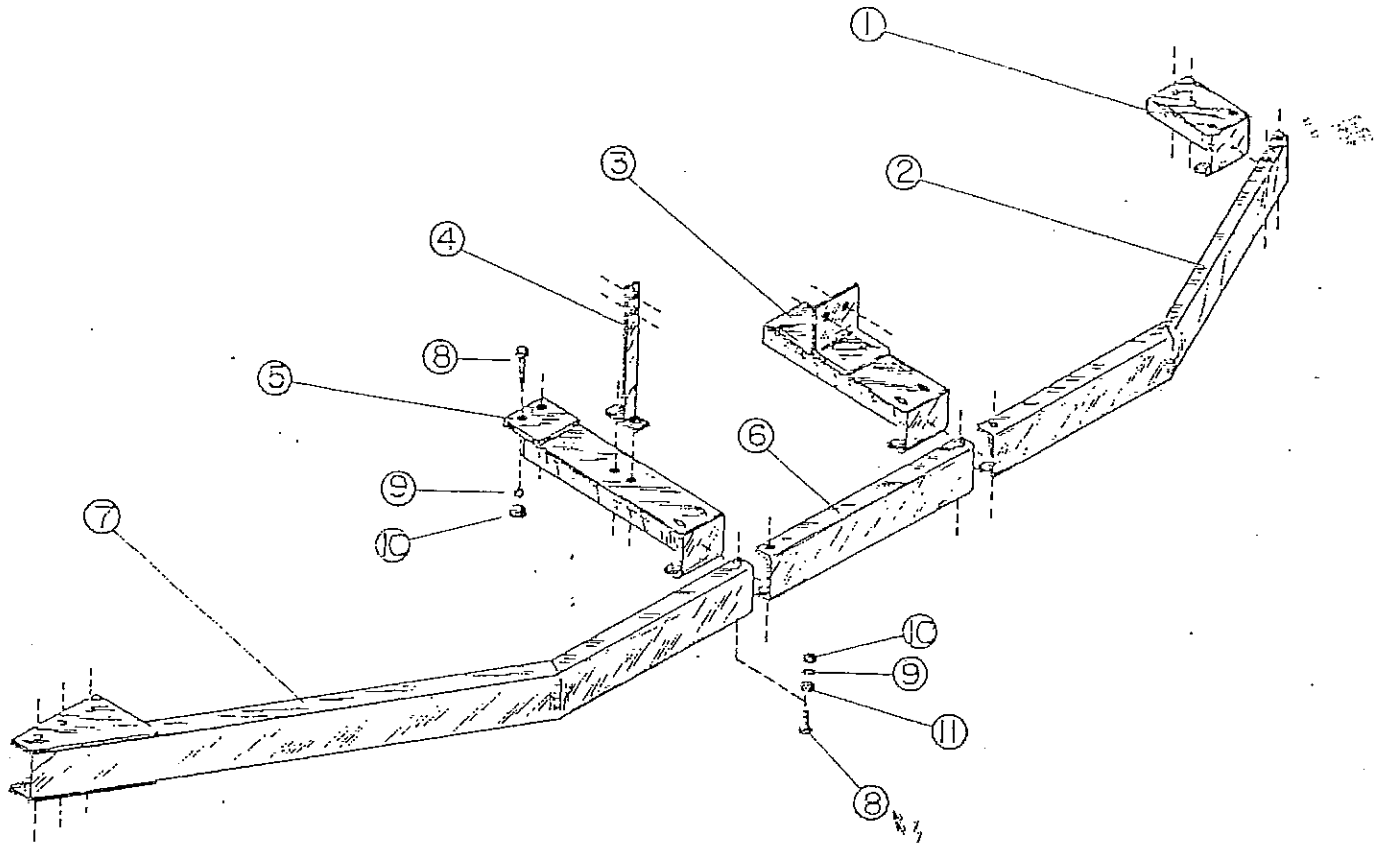
ITEM	PART NUMBER	QTY	DESCRIPTION
1	012550	2	PIN, EXPANSION 1/4" x 1-1/4"
2	121010	2	SPACER, HINGE
3	041860	1	BRACKET, TOP SUPPORT
4	012140	-	BOLT, HHCS 5/16" x 3/4"
5	121020	1	SHAFT, HINGE
6	043890	1	MOUNT, CYLINDER
7	991100	2	PIN, EXPANSION 3/16" x 1-1/4"
8	043660	2	ELBOW, 90 DEG STREET 3/8" x 1/2"
9	023620	-	WASHER, LOCK 5/16"
10	043630	1	CYLINDER, HYDRAULIC 2-1/2" X 8"
11	043900	1	MOUNT, CYLINDER UPPER
12	121030	1	CHUTE, DISCHARGE (12 GA.)
13	023630	-	NUT, HEX 5/16"
14	121040	-	KIT, HYDRAULIC CHUTE
15			

# OPTIONAL AUGER EXTENSION FOR 800B AND 850B SILAMIXES



ITEM	PART NUMBER	QTY	DESCRIPTION
1	043290	1	DOOR
2	041830	1	U-JOINT
3	020700	2	PIN, COTTER 5/32" x 1"
4	117820	1	AUGER, 2 FOOT EXTENSION
5	020680	2	PIN, CLEVIS 5/16" x 2-3/8"
6	012560	2	PIN, EXPANSION 3/16" x 1"
7	043300	1	ROD, HINGE
8	031080	-	BOLT, HHCS 1/2" x 1"
9	005360	-	NUT, HEX 1/2"
10	043310	1	SPRING, EXTENSION
11	043330	1	TUBE, 2 FOOT EXTENSION
12	042890	1	PLUG FOR EXTENSION
13	117830	1	AUGER, 1 FOOT EXTENSION
14	042900	1	TUBE, 1 FOOT EXTENSION
15	117840	-	KIT, 2 FOOT EXTENSION
16	117850	-	KIT, 1 FOOT EXTENSION
17			

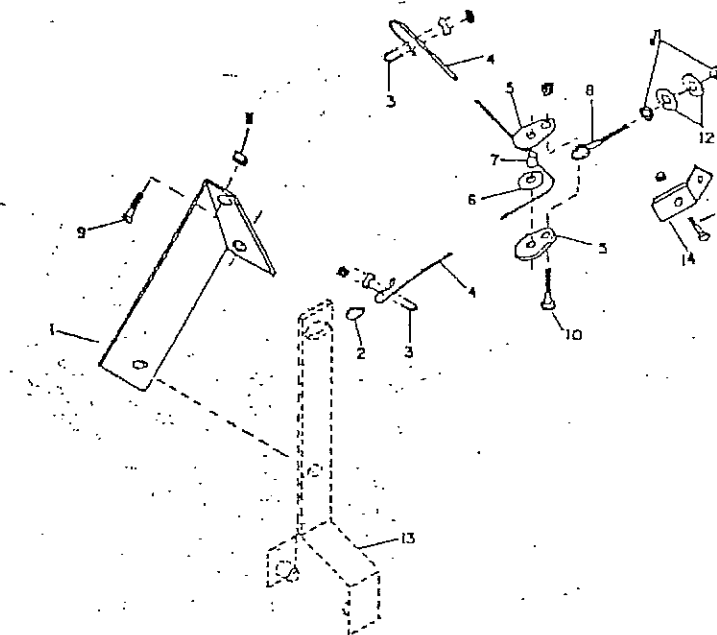
# OPTIONAL BUNK GUARD FOR 800B MODEL ONLY



ITEM	PART NUMBER	QTY	DESCRIPTION
1	112600	1	MOUNT, REAR IDLER HUB
2	110080	1	RAIL, REAR
3	112610	1	MOUNT, FRONT IDLER HUB
4	112570	1	BRACKET, FRONT BRACE VERTICAL
5	112560	1	BRACE, FRONT CROSS
6	110050	1	RAIL, SIDE
7	112620	1	RAIL, FRONT
8	010730	-	BOLT, HHCS 1/2" x 1-1/4"
9	005370	-	WASHER, LOCK 1/2"
10	005360	-	NUT, HEX 1/2"
11	005200	-	WASHER, FLAT 1/2"
12	110470	-	COMPLETE GUARD FOR ONE SIDE

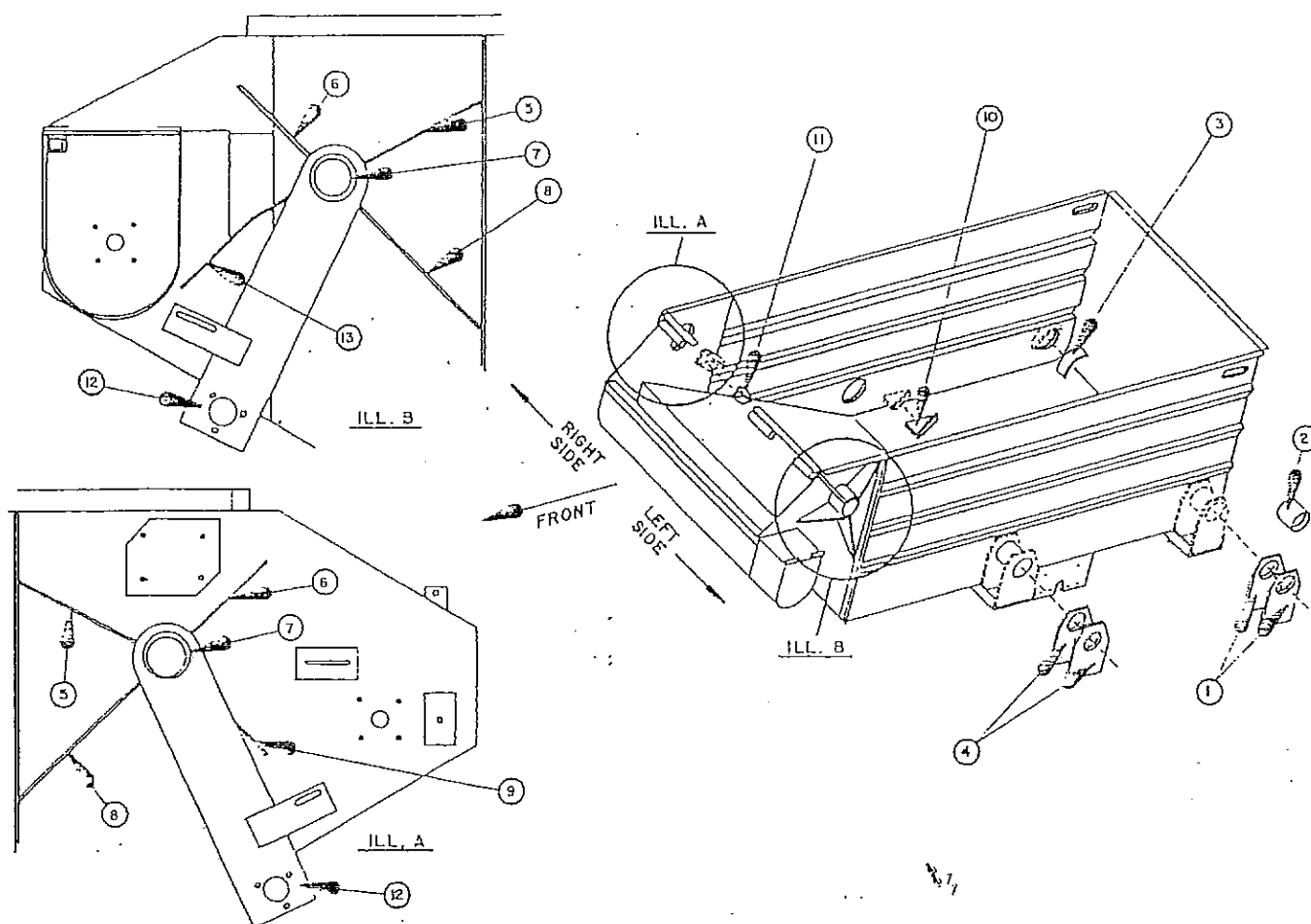


# AUTOMATIC CLUTCH KIT



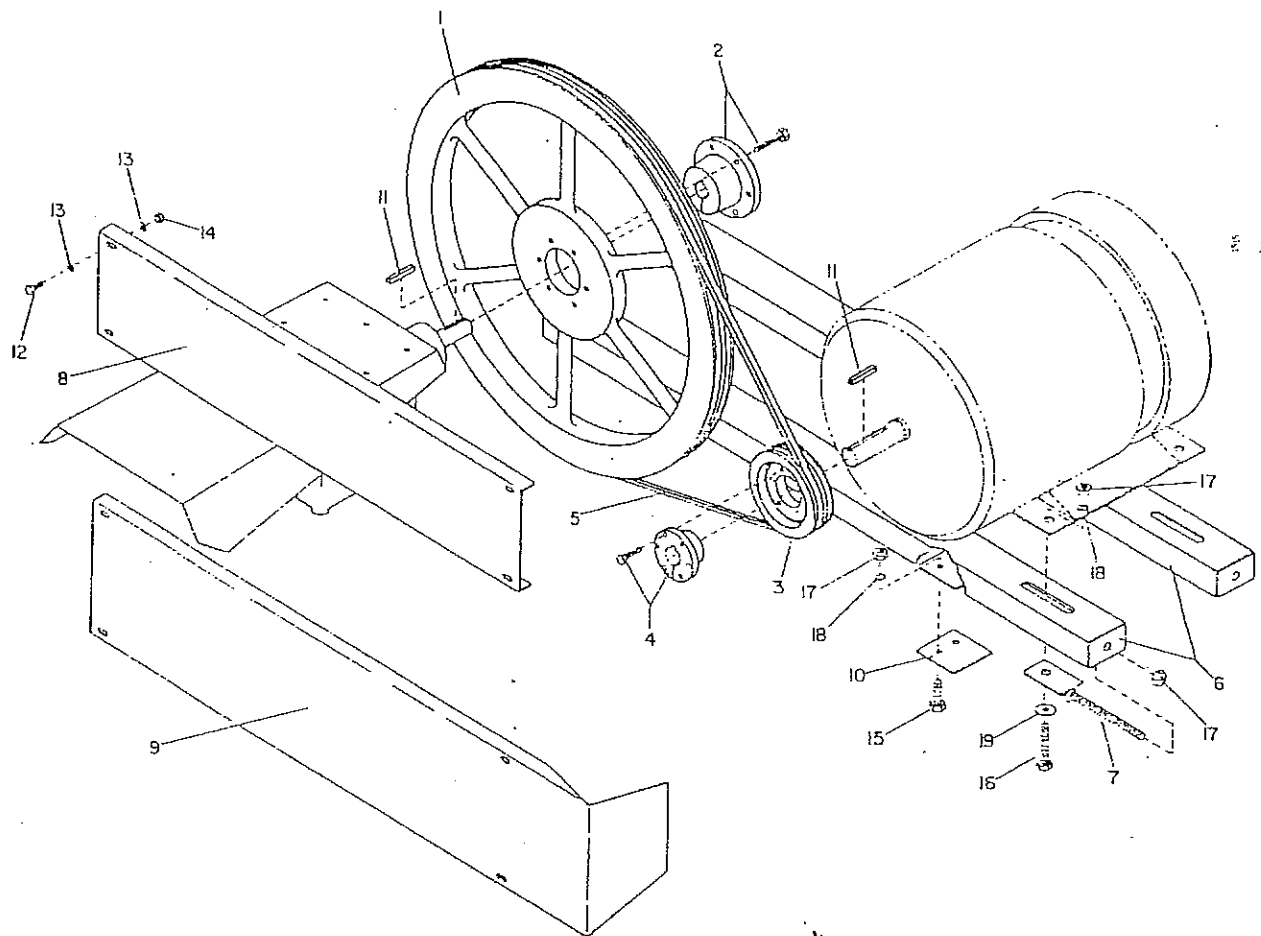
ITEM	PART NUMBER	QTY	DESCRIPTION
1	144420	1	PIVOT, UPPER
2	138000	2	THIMBLE, CABLE 1/8
3	129260	2	CLAMP, CABLE 1/8
4	144380	1	CABLE, CLUTCH
5	136960	2	PLATE, PULLEY
6	136940	1	WHEEL, PULLEY
7	136970	1	SPACER, PULLEY
8	138130	1	EYE BOLT
9	012260	-	BOLT, HHCS 3/8" x 1"
10	011370	-	BOLT, HHCS 3/8" x 1-1/2"
11	023060	-	NUT, HEX LOCK 3/8"
12	021190	-	WASHER, FLAT 3/8"
13	041920	1	ARM, CLUTCH
14	165140	1	BRACKET, AUTO CLUTCH
15	144350	-	KIT, AUTOMATIC CLUTCH

# BOX REPAIR PARTS



ITEM	PART NUMBER	QTY	DESCRIPTION
1	115330	4	PLATE, REAR HUB
2	115310	4	IDLER HUB ASSY
3	115780	2	COVER, BACK IDLER
4	115340	4	PLATE, FRONT HUB
5	116120	2	GUSSET, NO. 2 DRIVE HUB
6	116110	2	GUSSET, NO. 1 DRIVE HUB
7	115980	2	FRONT DRIVE HUB ASSY
8	116140	2	GUSSET, NO. 4 DRIVE HUB
9	116130	1	GUSSET, NO. 3 DRIVE HUB
10	116150	1	BRACKET, SHIELD SUPPORT R.H.
10	116160	1	BRACKET, SHIELD SUPPORT L.H.
11	116300	1	PLOW ASSY, R.H.
11	116290	1	PLOW ASSY, L.H.
12	116220	2	ARM, BEARING
13	115840	1	GUSSET, COMBINATION FILLER

# ELECTRIC MOTOR DRIVE KIT



ITEM	PART NUMBER	QTY	DESCRIPTION
1	120810	1	PULLEY, 25" OD
2	166730	1	BUSHING, 1-1/4" BORE
3	120820	1	PULLEY, 5" OD
4	120830	1	BUSHING, 1-3/8" BORE
5	120840	1	V-BELTS, 3V
6	166770	2	BRACKET, MOTOR MOUNT
7	166740	2	BRACKET, TAKE-UP
8	166790	1	SHIELD, TOP
9	166780	1	SHIELD, LOWER
10	162420	4	PLATE, TIGHTENER
11	020400	-	KEY, SQ 5/16" x 2"
12	006880	-	BOLT, HHCS 5/16" x 5/8"
13	022920	-	WASHER, FLAT 5/16"
14	025670	-	NUT, HEX LOCK 5/16"
15	014770	-	BOLT, HHCS 1/2" x 1-1/2"
16	007080	-	BOLT, HHCS 1/2" x 2-1/2"
17	005360	-	NUT, HEX 1/2"
18	005370	-	WASHER, LOCK 1/2"
19	005200	-	WASHER, FLAT 1/2"
20	166800	-	KIT, ELECTRIC DRIVE COMP. (MOTOR NOT INCLUD.)

NOTE: ELECTRIC MOTOR NOT INCLUDED IN KIT OR FOR SERVICE!

# DECALS AND PAINT

PART NUMBER	QTY	DESCRIPTION
043121	-	SPRAY CAN, ART'S-WAY GREEN
043161	-	SPRAY CAN, ART'S-WAY YELLOW
021990	-	QUART CAN, ART'S-WAY GREEN
022000	-	QUART CAN, ART'S-WAY YELLOW
022010	-	GALLON CAN, ART'S-WAY GREEN
022020	-	GALLON CAN, ART'S-WAY YELLOW
181380	-	DECALS, COMP. SET FOR 8008 SILAMIX
181390	-	DECALS, COMP. SET FOR 8508 SILAMIX

# INDEX

PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE
003350	26	013170	40	023060	40	038850	28	042310	26
003350	44	013600	36	023060	48	039261	44	042320	26
003950	29	013750	40	023090	34	039630	26	042330	26
005200	28	014770	26	023270	44	039690	44	042360	26
005200	40	014770	40	023620	34	039730	36	042370	36
005200	42	014770	50	023620	36	039770	32	042370	40
005200	47	017200	29	023620	40	039780	32	042390	34
005200	50	018710	26	023620	42	039800	32	042440	26
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005360	28	018860	26	023630	36	039920	28	042500	42
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005370	28	020170	42	025690	40	040150	28	042661	28
005370	36	020220	36	025700	40	040160	28	042680	38
005370	40	020340	34	025710	40	040250	38	042690	38
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005370	47	020400	50	025750	40	040490	42	042720	38
005370	50	020450	29	025770	40	040500	42	042730	38
005390	28	020680	32	025780	40	040510	42	042740	38
005710	43	020680	46	025800	40	040520	42	042750	38
005900	40	020700	32	026630	26	040543	42	042870	32
006240	43	020700	38	027260	28	040550	42	042890	46
006310	43	020700	40	027260	30	040610	44	042900	46
006320	43	020700	43	027260	38	040611	44	042920	38
006690	28	020700	46	027260	42	041750	43	042930	38
006690	34	020710	26	027660	36	041830	46	042940	38
006690	40	020710	28	029440	36	041850	40	042960	36
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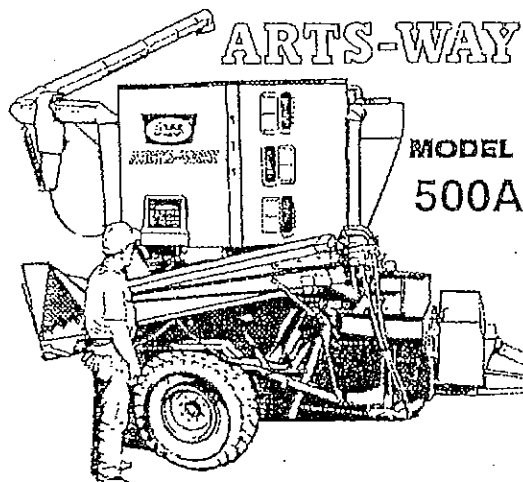
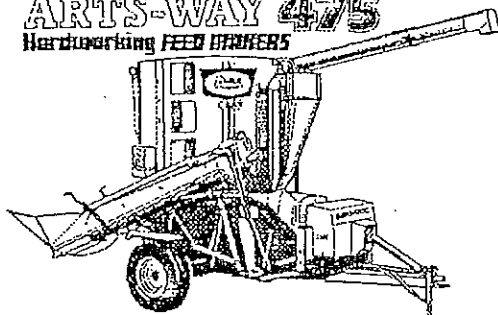
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# ARTS-WAY

## ARTS-WAY 475

Hardworking FEED GRINDERS

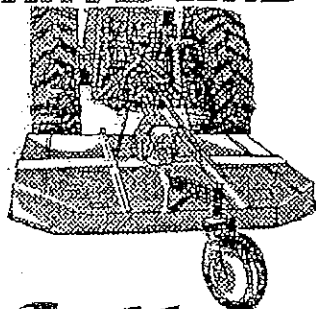


ARTS-WAY

MODEL  
500A

Extra Capacity, Extra Value

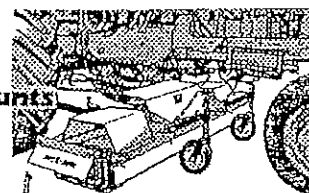
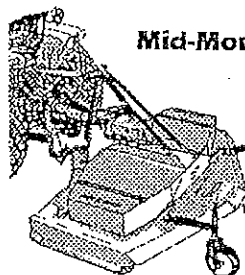
## ARTS-WAY



Cutters

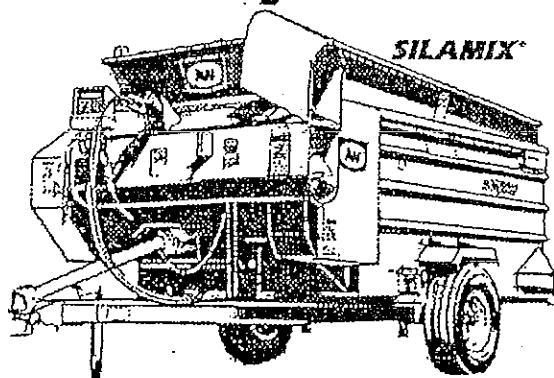
Rear-Mounts

Mid-Mounts



ARTS-WAY  
Mowers

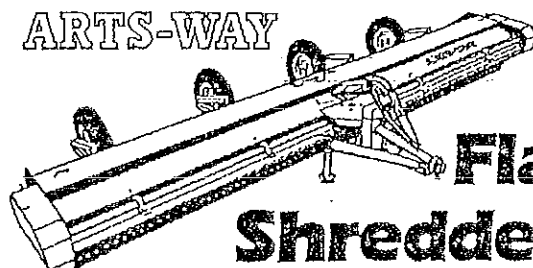
Better Mixing at Lower Cost



SILAMIX®

ARTS-WAY 800B & 850B

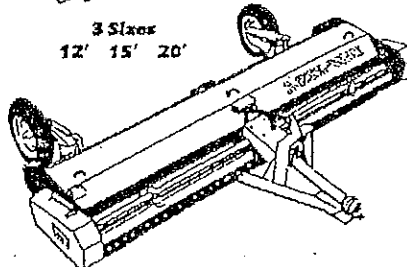
## ARTS-WAY



Flail  
Shredders

3 Sizes

12' 15' 20'



ART'S-WAY MANUFACTURING CO., INC.  
ARMSTRONG, IOWA 50514  
(712) 864-3131