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OPERATOR'S MANUAL

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TO THE OWNER

This Arts-Way unit is the finest equipment 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 the 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 the unit. Keep this manual handy for reference. We will be glad to answer any questions you may have. For further information call or write Arts-Way Mfg. Co., (712) 864-3131, Armstrong, Iowa 50514.

WARRANTY

The material and workmanship in this unit is, to the extent manufactured and produced by the ARTS-WAY MANUFACTURING CO. and subject to the terms and conditions contained in our Sales Order, warranted for a period of one year after shipment from our factory. Elements not manufactured in the Arts-Way factory are warranted only to the extent warranted by the manufacturer thereof.

SEE ATTACHED LIMITED WARRANTY PAGE

WORK SAFELY — FOLLOW THESE RULES



The safety alert symbol identifies important safety messages in this manual. It means — **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!** When you see this symbol, be alert to the possibility of personal injury and read the message that follows.

A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT.

BEFORE OPERATING

Do not wear loose-fitting clothing which may catch in moving parts.

Use extreme care when making adjustments. Shut off machine before making adjustments.

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

Keep all safety shields in place.

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

DURING OPERATION

No one other than the operator should ride on the tractor.

Do not attempt to remove any obstructions while operating the machine.

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

Do not ride on the silage-mixer during operation.

Use extreme care when operating close to ditches, fences, or on hillsides.

Keep children away from machine in operation.

ON-HIGHWAY OPERATION

Always place the machine in the transport position.

For daytime and nighttime, accessory lights 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.

Drive at a reasonable speed to maintain complete control of the machine at all times.

When transporting on the highway, it is recommended that a safety chain be used with the tractor and silage mixer.

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. For location of decals, See Figures 1, 2, & 3 on page 5.

IMPORTANT

FOR 540 R.P.M./P.T.O. OPERATION

No. 1 — “IMPORTANT - FOR 540 R.P.M./P.T.O. OPERATION.” Part No. 447-12117-0. DO NOT operate with 1000 R.P.M./P.T.O. Located by the P.T.O. gear box shown in Figure 1.

IMPORTANT

Machine must be hitched to standardized drawbar—Hitch pull point from end of tractor power take-off shaft must be located as shown below:

540 RPM 1½ shaft dia.	1000 RPM 1½ shaft dia.	1000 RPM 1½ shaft dia.
14 in (356 mm)	18 in (406 mm)	20 in (508 mm)

Machine must be hitched directly in line with centerline of tractor power take-off shaft. Implement input shaft shall be aligned horizontally as close as possible to tractor power take-off shaft. Do not attach to swinging drawbar unless locked in position. **UNLESS THESE INSTRUCTIONS ARE FOLLOWED, POWER DRIVE LINE DAMAGE MAY RESULT. SEE ILLUSTRATION IN OWNER'S MANUAL.**

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 shown in Figure No. 1. Part No. 447-11537-0.



CAUTION

1. Keep all shields in place.
2. Disengage power take-off and shut off engine before servicing, cleaning or clearing a clogged machine.
3. Keep hands, feet and clothing away from all moving parts.
4. Keep off implement unless seat or platform is provided for riding purposes. Keep others off.

No. 3 — “CAUTION” — Safety Shield caution decal, Part No. 447-11538-0 lists four basic rules to be observed at all times around this machine. This is located on the front side of discharge auger housing shown in Figure 1.



CAUTION

Read the Operator's Manual.

Learn to operate this machine **SAFELY**.

Be alert. Observe **ALL** Safety Practices.

Machines can be hazardous in the hands of an **UNFAMILIAR, UNTRAINED or COMPLACENT** operator.

Don't risk **INJURY or DEATH**.

No. 4 — “CAUTION” — Safety caution decal Part No. 447-11543-0. Located on the front side of discharge auger housing shown in Figure 1.



CAUTION

Power drive system safety shields must be kept in place.

No. 5 — “CAUTION — Power drive system safety shields must be kept in place.” Part No. 447-12118-0. Located on gearbox shield shown in Figure 1.



CAUTION

Rotating parts inside this opening. Shut off engine before cleaning or servicing.

No. 6 — “CAUTION” — Safety caution decal, Part No. 447-121190-0. Located on discharge auger extension housing shown in Figure 1.



**Stay off machine when it is running.
Shut off tractor engine and remove
ignition key for safety while working
in or around machine.**

No. 7 — "DANGER" — Decal, Part No. 447-11777-0 warning of the danger to stay off of machine when it is running. Located at each side of mixing tank directly above fenders as shown in Figure 2.



1. Keep away from moving apron chain.
2. Stop machine before adjusting or lubricating.
3. Use flashing warning lights at all times on public roads unless prohibited by law. Also, mount slow moving vehicle emblem in holes provided above.

No. 8 — "CAUTION" — Safety caution decal, Part No. 447-11539-0 lists 3 basic rules to be observed at all times around this machine. This is located on rear of mixing tank as shown in Figure 3.

SAFETY CHAIN

TRANSPORTING SILAMIX BY ROAD

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 M.P.H. especially over rough roads and when going down inclines.

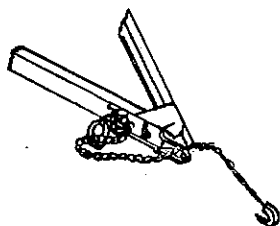


Figure A

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 A.
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 B.

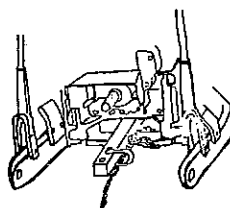


Figure B

SAFETY DECAL LOCATION

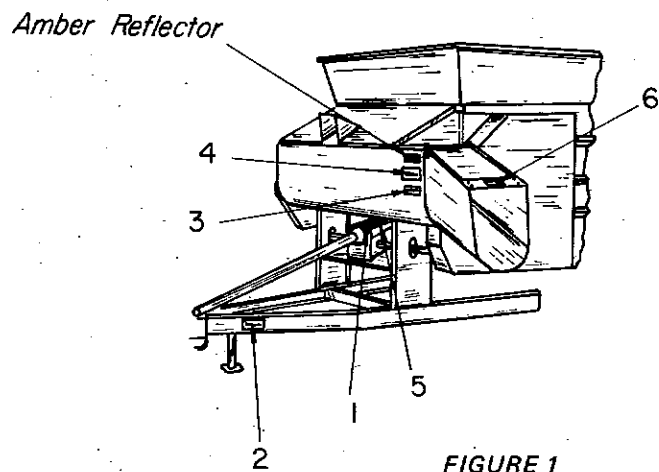


FIGURE 1

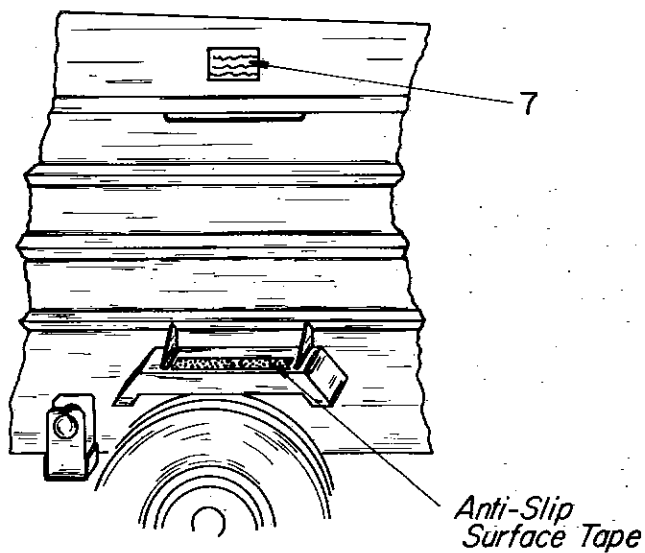


FIGURE 2

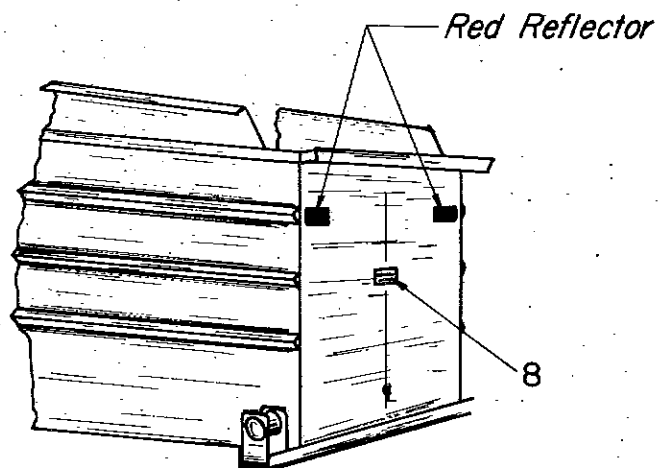


FIGURE 3

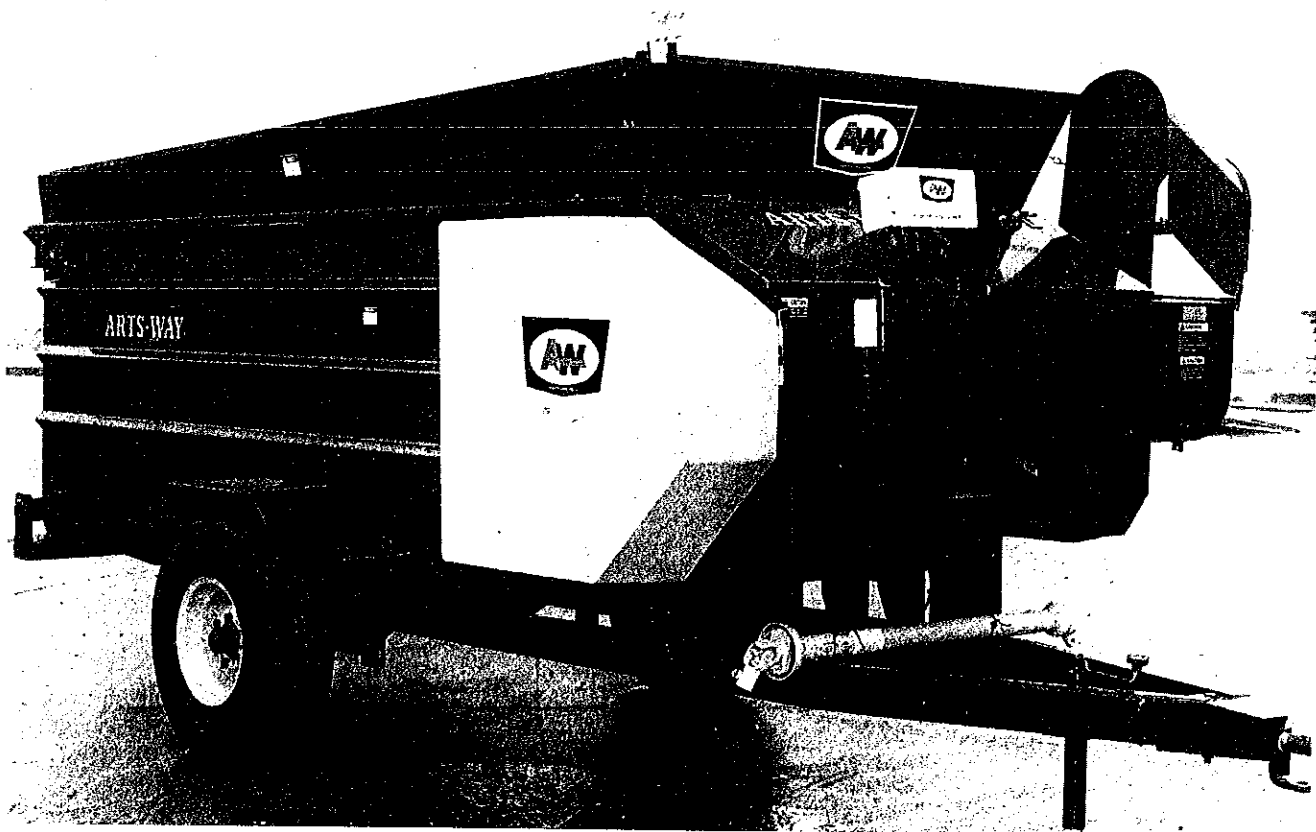


Figure 4 — Front Corner View of Model 800A Silamix

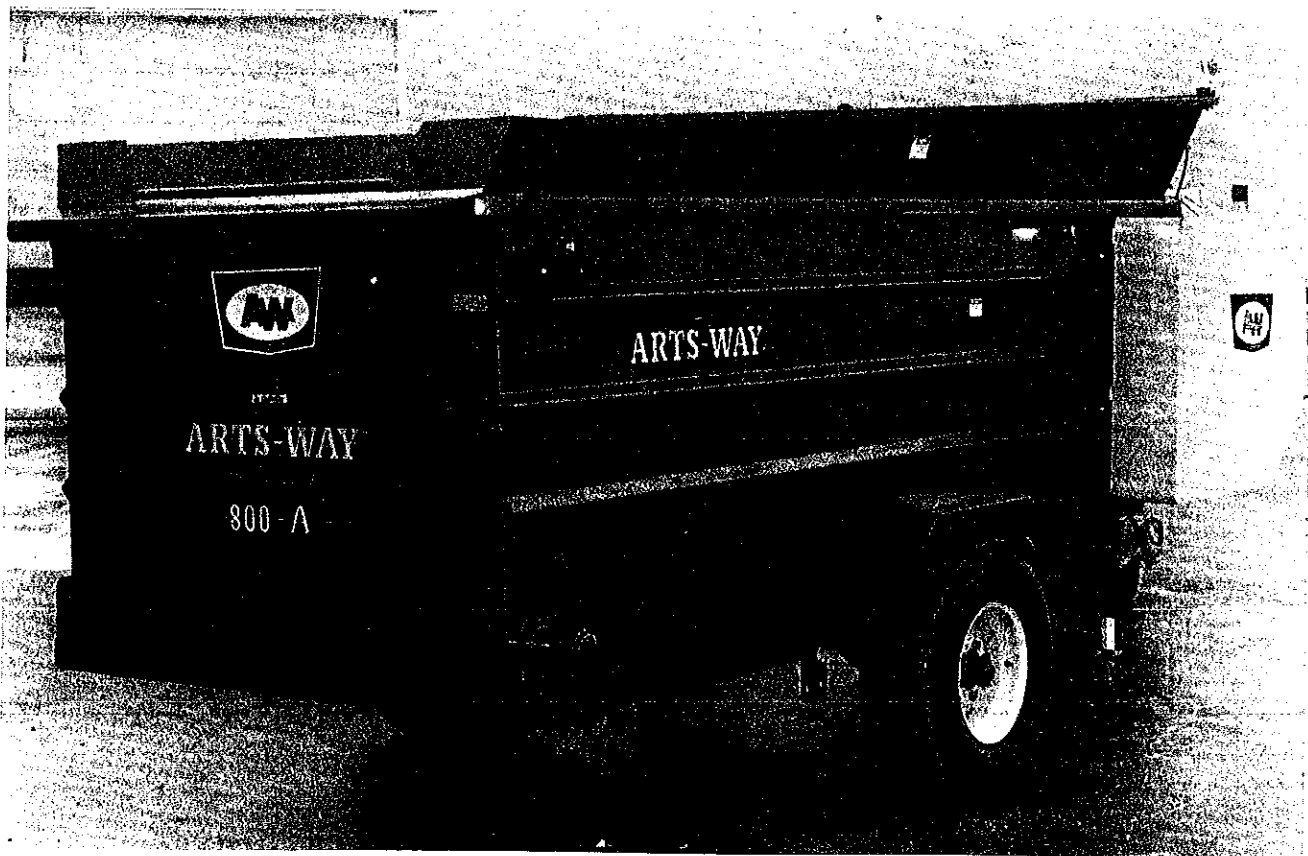


Figure 5 — Rear Corner View of Model 800A Silamix

OPERATION

INTRODUCTION

The manual has been prepared to acquaint the new owners with the Arts-Way 800A and 850A Silamix Silage-Mixers. It should help you better understand the efficient operation and care of your silage-mixer.

The Arts-Way 800A and 850A 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 12A.)

Optional attachments are illustrated on pages 19 and 20.

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

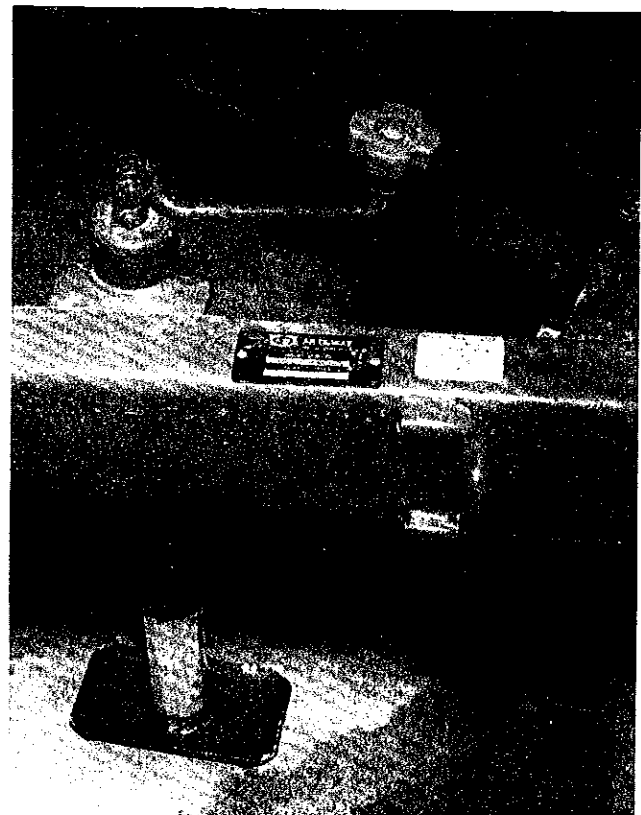


Figure 6 — Location of Serial Number Plate

Record your Silamix Serial Number on inside front cover for future reference when ordering parts.

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 18.

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.

Tire Inflation

Check tires for proper inflation pressure. See page 11 for recommended care of tires and inflation pressure.

Lubrication

Lubricate the Silamix at regular intervals as instructed on pages 16 and 17.

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 7.)

IMPORTANT: Remove drain plug if machine is stored outside.

Install implement end of power shaft by fastening to gear box with clevis pin and cotter key provided.

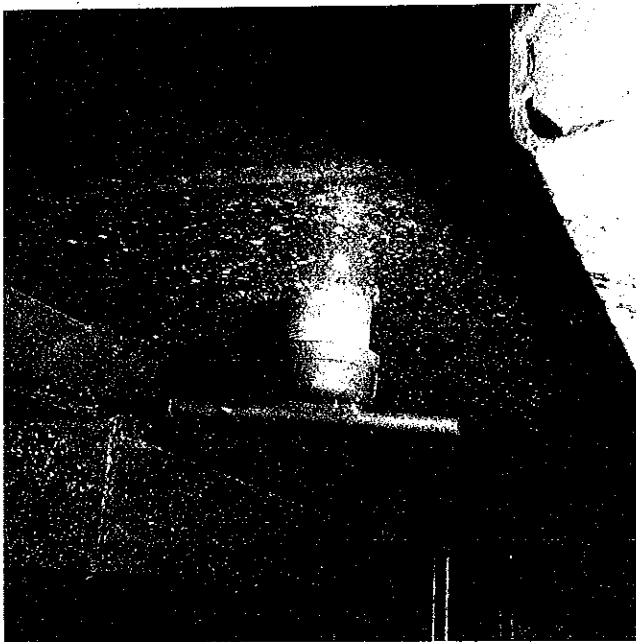


Figure 7 — Drain Cap Location

PREPARING THE TRACTOR

The 800A and 850A 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.

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 3, Decal No. 2.

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

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.

ATTACHING SILAMIX TO 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 an electronic scale, plug the scale power supply cord into the electrical outlet on the tractor.

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 SILAMIX 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.

GENERAL OPERATION

IMPORTANT: Before using with PTO and 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. The rear of the box may bend if a large slug is caught between the apron slats and the back upon startup. (See Figure 12A.)

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 away from machine 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 a 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 12A.)

IMPORTANT: Inspect mixing chain adjustment periodically and adjust when necessary. [See page 13.]

On machines equipped with electronic scale, inspect and tighten bolts in hitch weigh bar regularly. Inaccurate weighing will result from loose bolts. Structural damage and weigh bar 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 800A Silamix has a capacity of 175 bushels (approximately 3 tons) of silage and the mixing tank for the Model 850A 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 12A).

Unloading

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

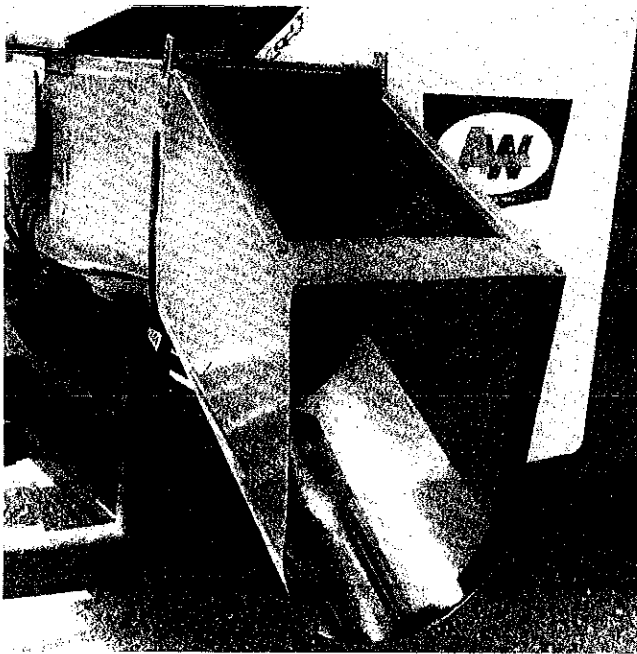


Figure 8 – Discharge Auger Extension Lowered

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.

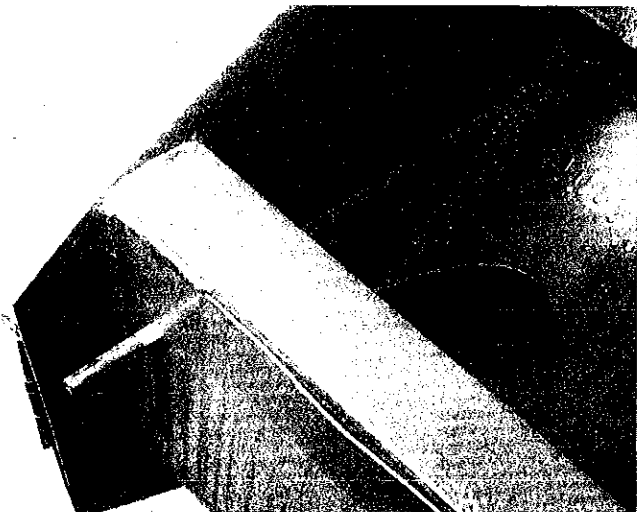


Figure 9 – Trough Door Indicator

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 20.)

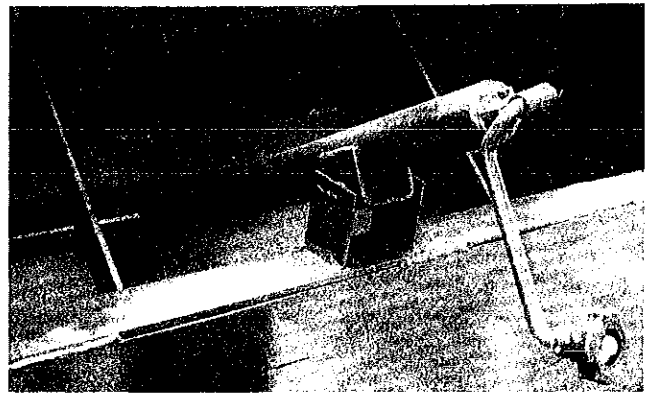


Figure 10 – Trough Door Jack

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.

Care of Rubber Tires

Keep tires properly inflated.

Lack of pressure will result in torn valve stems, fabric breaks, and uneven tread wear. 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 — 36 psi.
11L - 15	8 - PR tires — 32 psi.
13.50 - 16.1	8 - PR tires — 28 psi.

Inflate tires to equal pressures.

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 or less] and be extra careful in hilly country.

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 all highway lighting and marking requirements.



Figure 12 — Discharge Auger Extension Raised

IMPORTANT:

BOTTOM REAR IDLERS MUST BE VISIBLE DURING THE MIXING PROCESS. THE REAR OF THE MIXING TANK MUST REMAIN EMPTY...

- 1.) TO ATTAIN STATED MACHINE CAPACITY.
- 2.) TO INSURE PROPER MIXING ACTION.
- 3.) TO AVOID OVERFILLING WHICH REDUCES MIXING CHAIN LIFE AND MAY RESULT IN MACHINE COMPONENT DAMAGE.

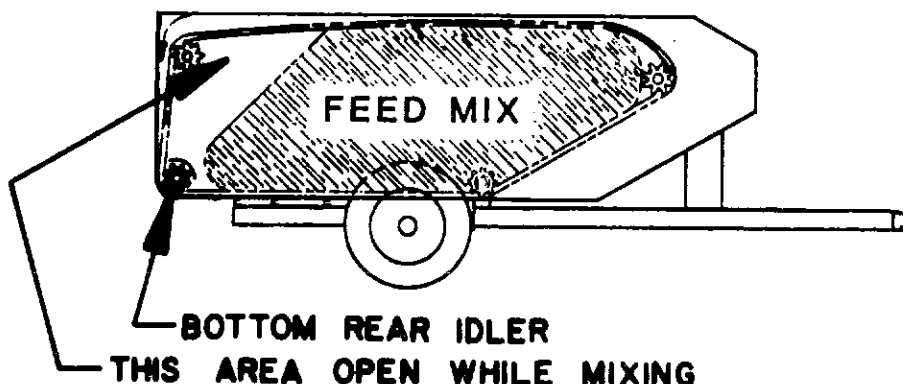


Figure 12A

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.

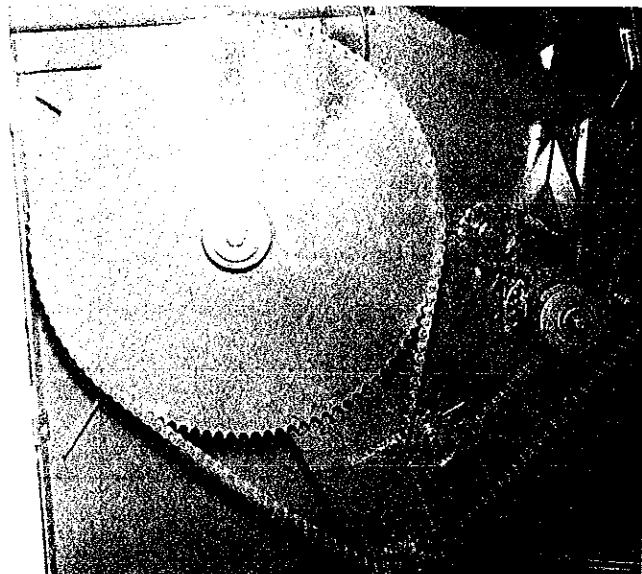


Figure 13 — Right Side Drive Chain

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 14 — 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.

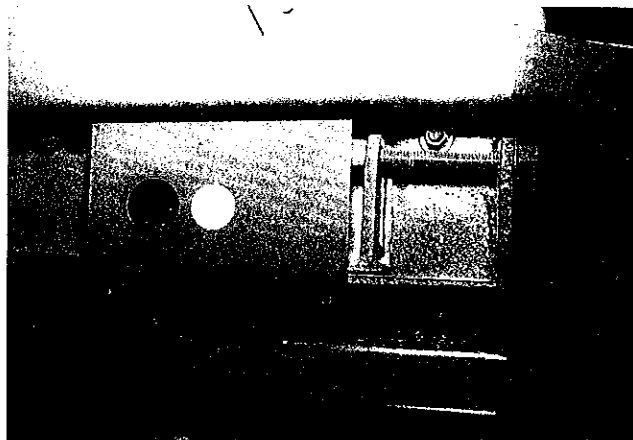


Figure 16 — Chain Adjustment

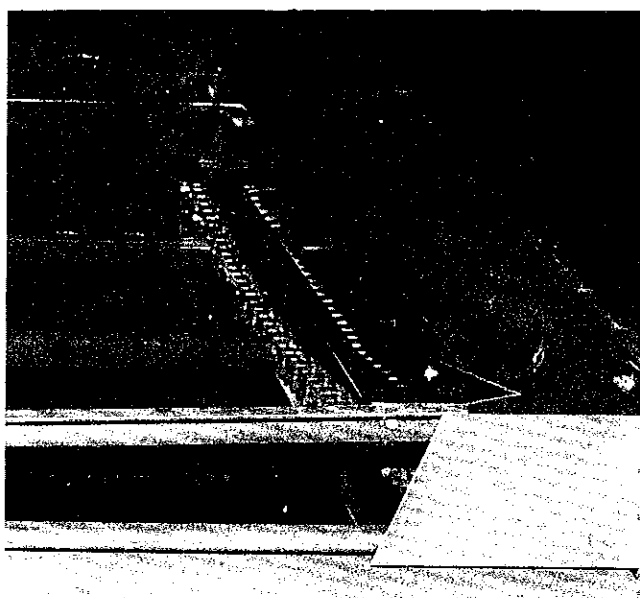


Figure 15 — Top View of Mixing Box

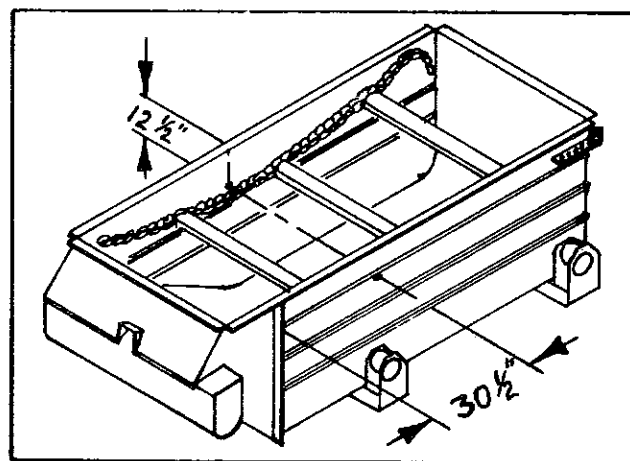


Figure 17 — Location of Leveling Holes

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.

The location of the holes is shown in Figure 17 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 19) or the eye bolt located at pivot pulley on auto clutch (Figure 19A).

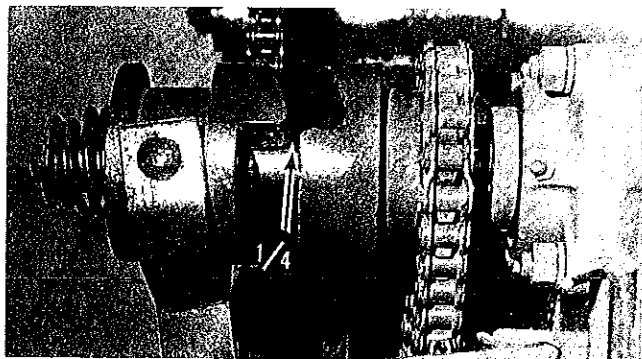


Figure 18 — Clutch Half Spacing

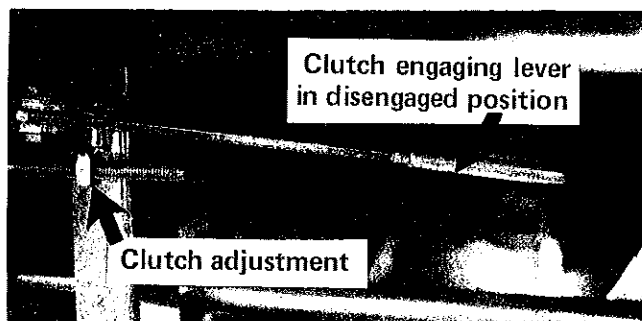


Figure 19 — Clutch Adjustment

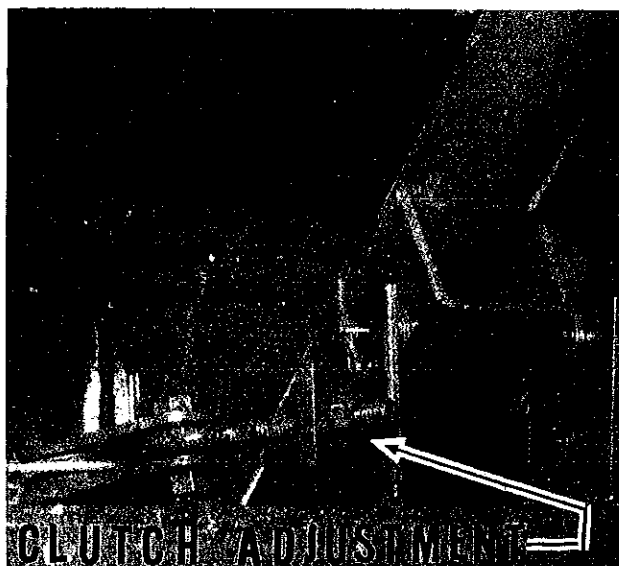


Figure 19A — Auto Clutch Adjustment

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.

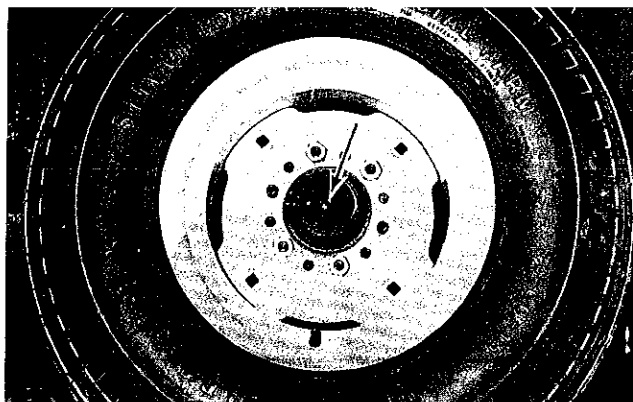


Figure 20 — Adjusting Wheel Bearings

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 overgrease.

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 Arts-Way Super-Lube lubricant or an equivalent SAE multi-purpose type grease.

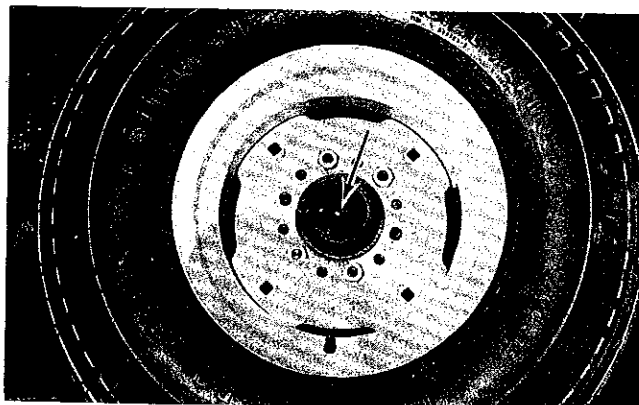


Figure 21 – Wheel Bearing Lubrication

PTO SHAFT AND SPINNER SHIELDS

Grease bearing crosses and zerk on sliding shaft weekly or every 10 hours of operation with Arts-Way Super-Lube lubricant or an equivalent 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 Arts-Way Super-Lube lubricant or an equivalent SAE multi-purpose type grease.

Grease flanged bearing on auger shaft and driver clutch half every 50 hours of operation with Arts-Way Super-Lube lubricant or an equivalent SAE multi-purpose type grease.

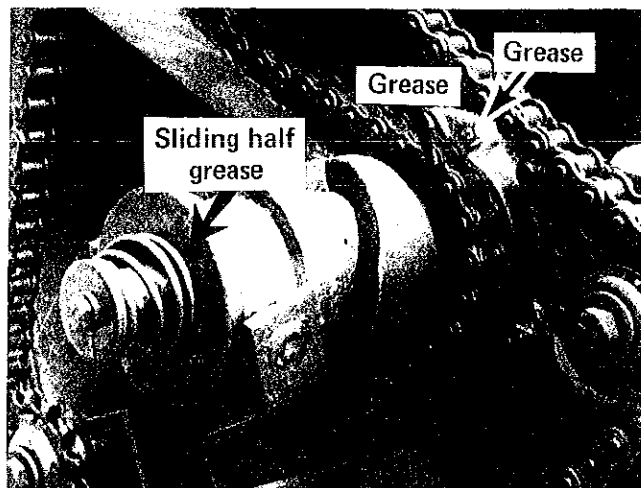


Figure 23 — Auger Clutch Lubrication

GEAR BOX

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 gear box.

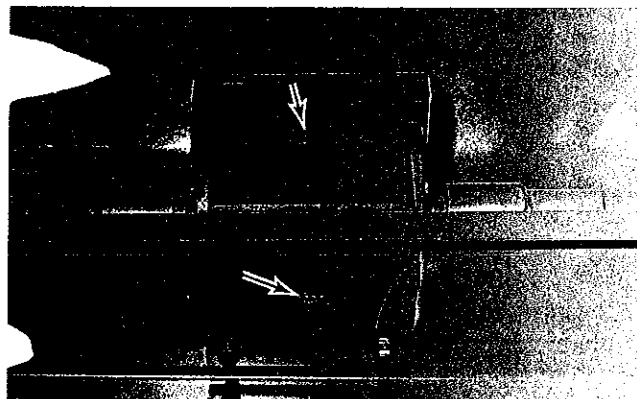


Figure 26 — Gearbox Lubrication

BEARING HUBS

Grease (4) lower idler bearing hubs and (2) upper drive bearing hubs every 50 hours of operation

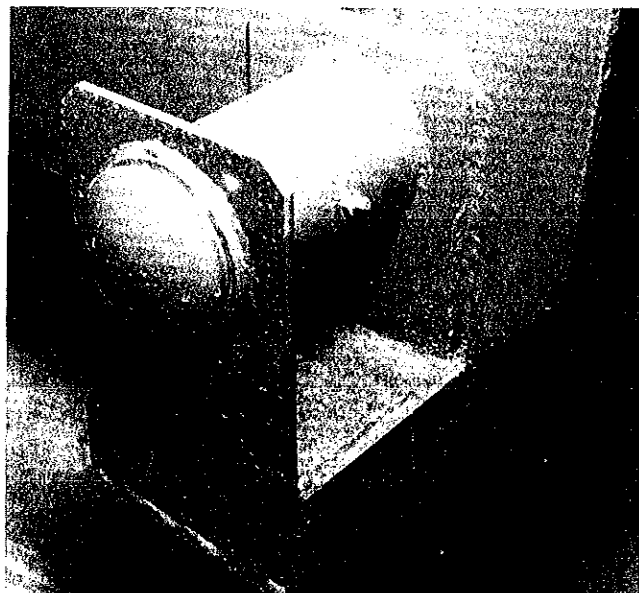


Figure 24 — Lower Idler Bearing Hub Lubrication

with Arts-Way Super-Lube lubricant or an equivalent SAE multi-purpose type grease.

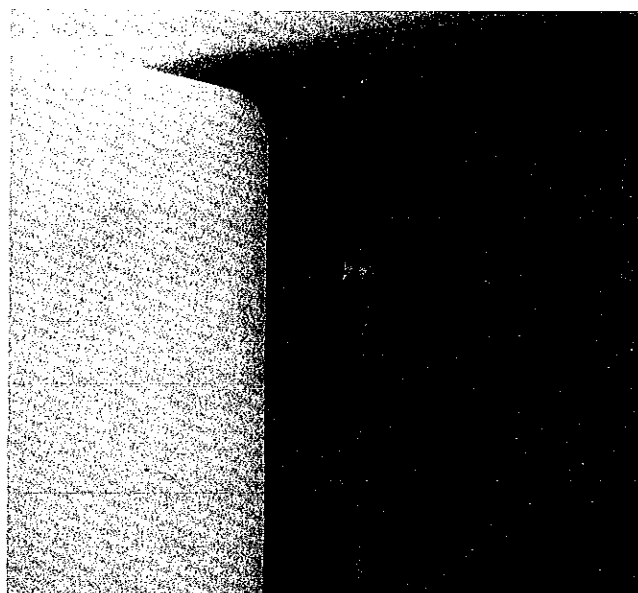


Figure 25 — Upper Drive Bearing Hub Lubrication

CHAINS

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

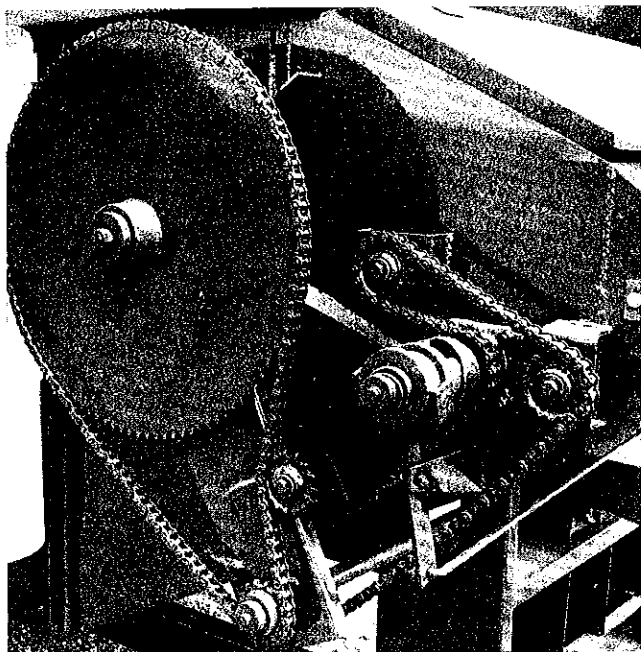


Figure 27 — Drive Chains Lubrication

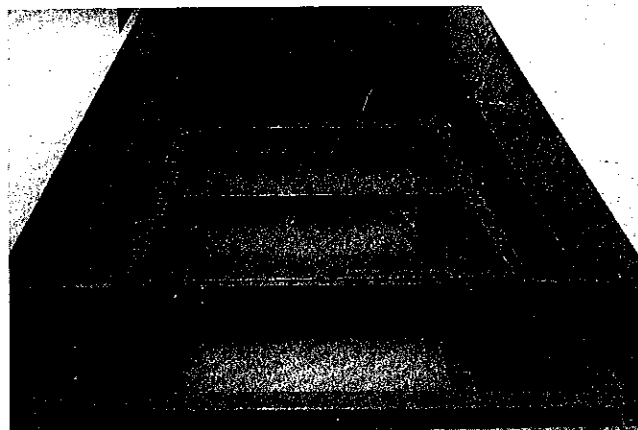


Figure 28 — Apron Chain Lubrication

REAR IDLER BEARINGS

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

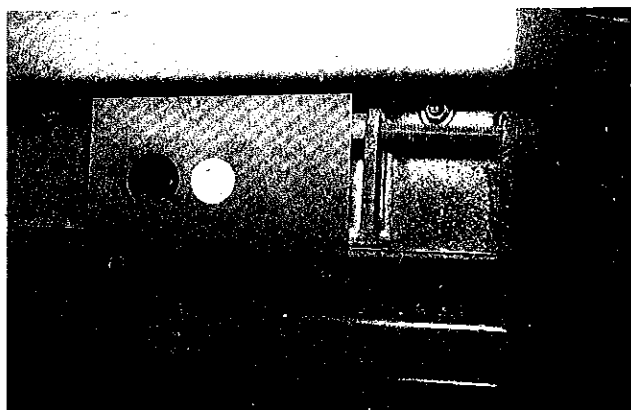


Figure 28A — Lubrication Rear Idler Bearing

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 (Figure 30); the other is located on the main drive shear hubs (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.

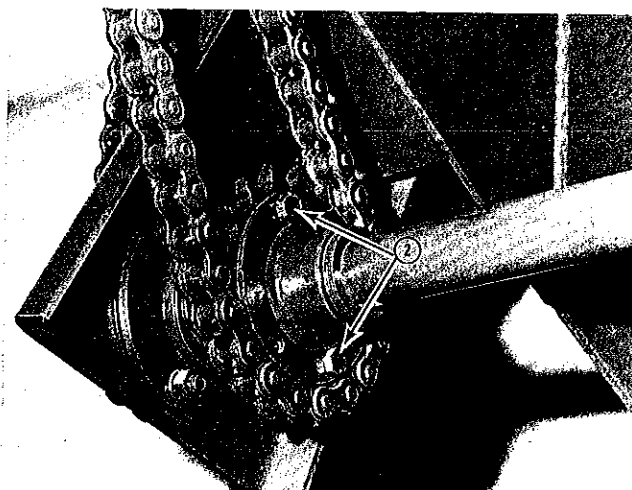


Figure 30 — Auger Discharge Shear Bolt

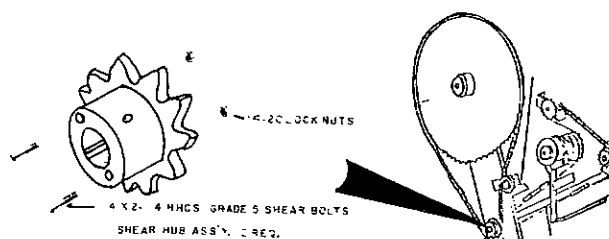


Figure 31 — Drive Shear Hubs

BOLT AND NUT TORQUE SPECIFICATIONS

RECOMMENDED TORQUE IN FOOT POUNDS COARSE AND FINE THREADS		
	 Grade 2	 Grade 5
BOLT	NO RADIAL DASHED	THREE RADIAL DASHES
1/4	6	9
5/16	11	18
3/8	19	31
7/16	30	50
1/2	45	75
9/16	66	110
5/8	93	150
3/4	150	250
7/8	202	378
1	300	583

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 with

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. Re-tighten 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.



Figure 34 — Hydraulic Cylinder for Door

ELECTRONIC SCALE ATTACHMENT

A solid-state electronic scale attachment, analog or digital type, is available for your silage-mixer. The scale attachment consists of weigh bar 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.

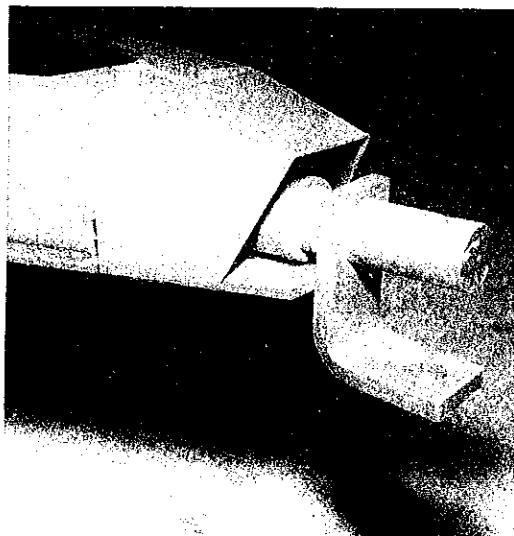


Figure 35 — Electronic Scale Attachment

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 15, 16 and 17.
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 (Figure 7, page 8) from plug and block frame so that any water entering tank will drain at left rear corner of mixing tank.

BUNKGUARD (Model 800A 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. The following steps are required to install the bunkguard kit.

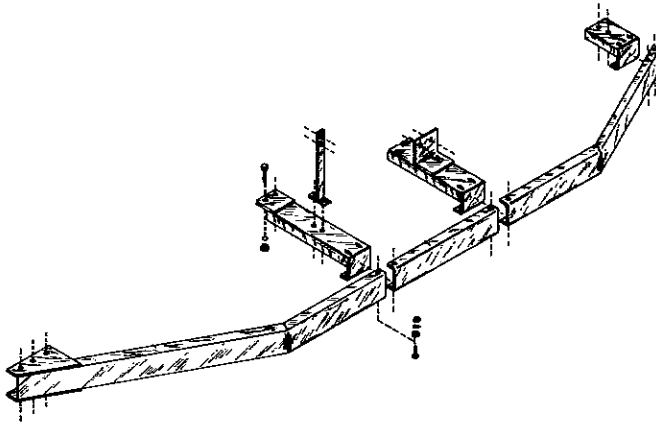


Figure 36 — Exploded Illustration of Bunkguard Parts

1. Center front idler hub mount (3, Figure 37) to underside of channel and clamp in place. Drill two 17/32 dia. holes through plate as shown. Bolt in place.

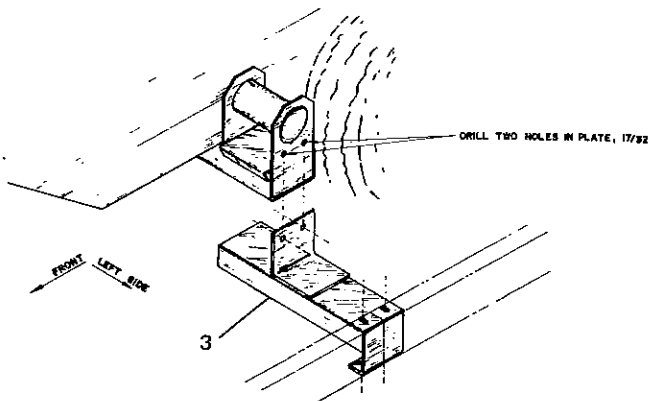


Figure 37 — Front Idler Hub Mount

2. Set in place side rail (6, Figure 38), front cross brace (5, Figure 38) and front brace vertical bracket (4, Figure 38). Drill (4) 17/32 dia. holes as indicated on frame and mixing box and bolt together items 3, 4, 5, and 6.

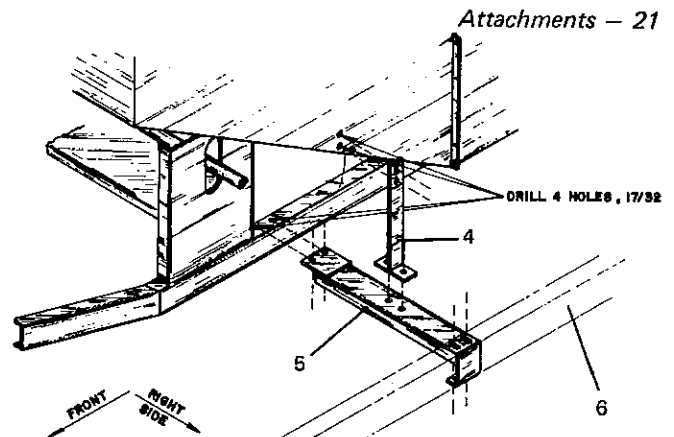


Figure 38 — Front Left Corner Attachment

3. Attach front rail (7, Figure 39) to front cross brace (5, Figure 38) and to forward part of main frame channel. See Figure 39. Clamp in place and drill (6) 17/32 dia. holes in frame channel as indicated.

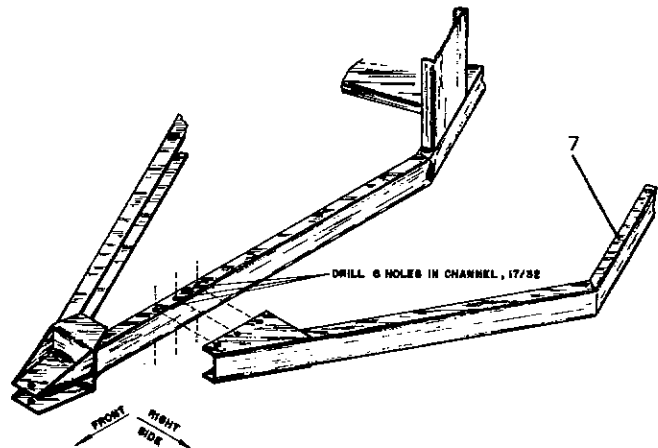


Figure 39 — Front Frame Attachment

4. Attach rear rail (2, Figure 40) to front idler hub (3, Figure 37). Clamp rear idler hub mount (1, Figure 40) in place and drill (2) 17/32 dia. holes through channel. Bolt in place.

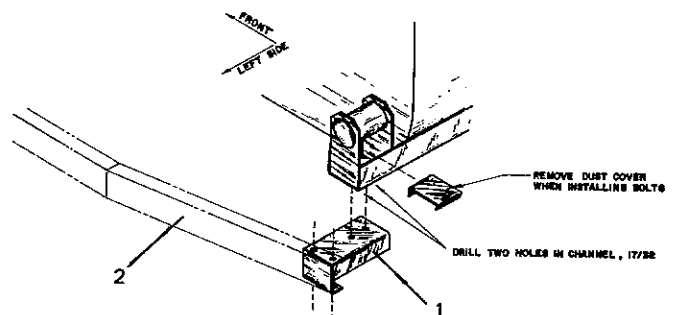
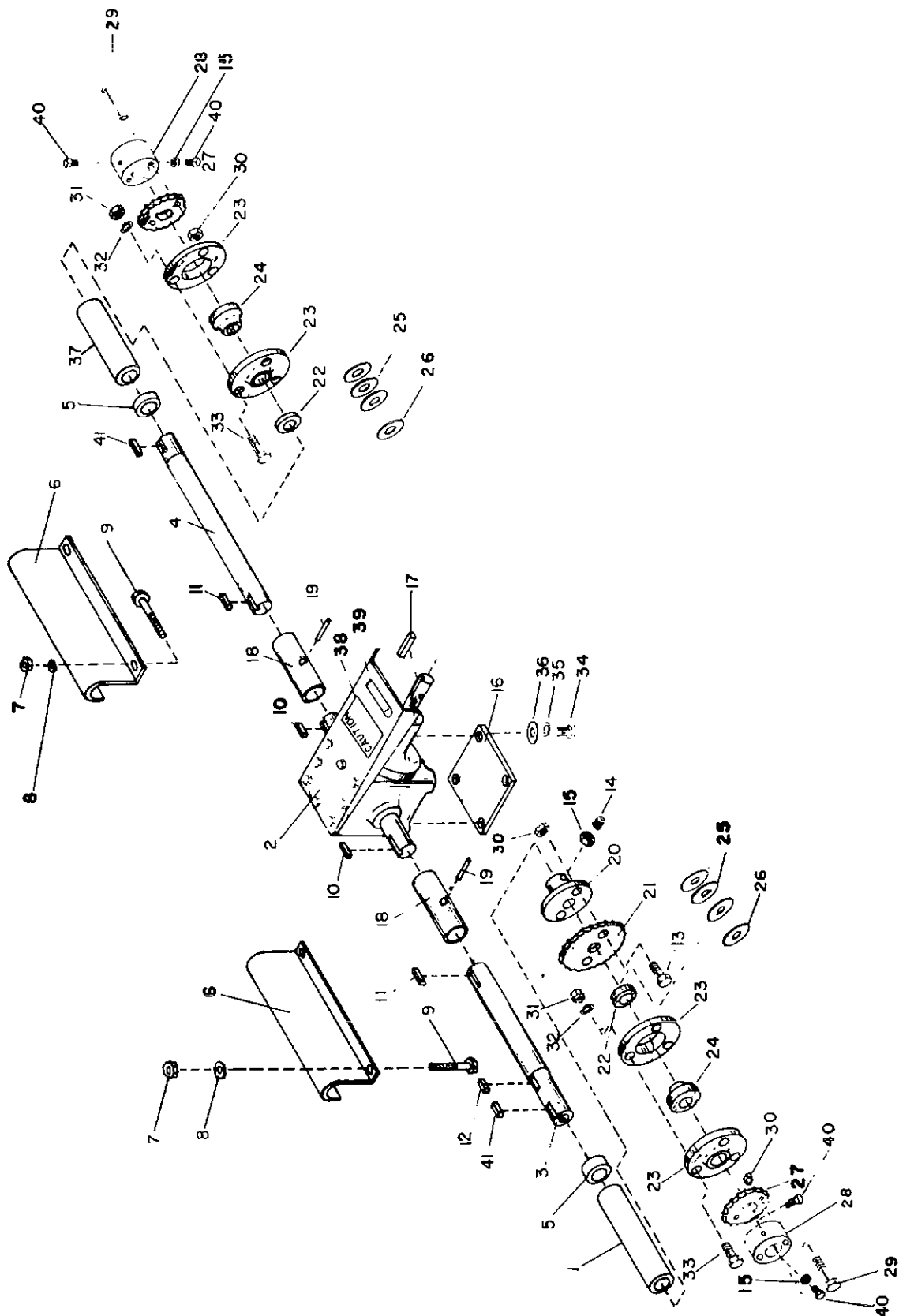


Figure 40 — Rear Frame Attachment

SPECIFICATIONS

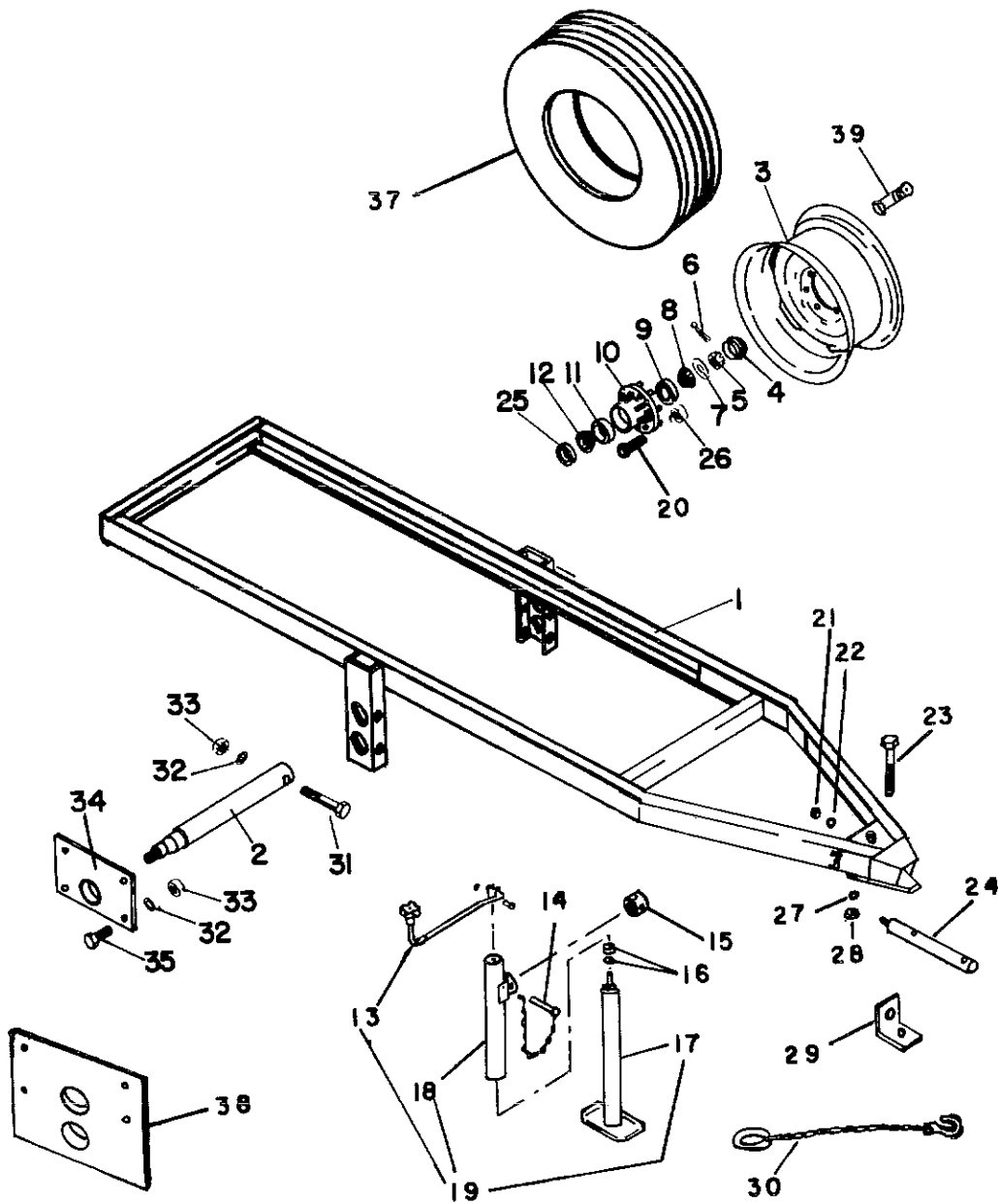
MODEL	800A SILAMIX	850A SILAMIX
Approximate Weight	4240 lb.	5380 lb.
Mixing Tank Capacity	218 cu. ft. (175 bushels)	310 cu. ft. (250 bushels)
Unloading Auger		
Diameter	12 in.	12 in.
Length	76 in.	84 in.
Height, bottom to ground	41 in.	41 in.
Mixing Tank		
Length	144 in.	168 in.
Width	60 in.	72 in.
Height 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.

GEARBOX IN AND OUT DRIVE



KEY	PART NUMBER	DESCRIPTION
1	116-11964-2	Shield, R.H. Spin (800) A
2	116-11964-0	Shield, R.H. Spin (850) A
3	226-04452-0	Gearbox, See separate Illustration
4	132-04315-0	Shaft, R.H. Drive (800) A
	132-04277-0	Shaft, R.H. Drive (850) A
	132-04316-0	Shaft, L.H. Drive (800) A
	132-04278-0	Shaft, L.H. Drive (850) A
5	116-11977-0	Collar with Set Screw
6	116-11965-0	Coupler Shield
7	322-02766-0	Hex Nut, ¼ - 20 NC
8	340-02944-0	Lock Washer, ¼
9	303-01205-0	Hex Cap Screw, ¼ - 20 NC x ¾
10	119-02040-0	Key, 5/16 Sq. x 2
11	119-03506-0	Key, 5/16 Sq. x 2½
12	119-02076-0	Key, 5/16 Sq. x 1-1/8
13	303-04296-0	Hex Cap Screw, ¼ - 20 NC x 1
14	303-03973-0	Sq. Hd. Set Screw, 5/16 - 18 NC x 1
15	322-03350-0	Hex Jam Nut, 5/16 - 18 NC
16	112-11231-0	Mounting Plate
17	119-02253-0	Key, 5/16 Sq. x 1 ¾
18	110-04454-0	Shaft Coupler
19	323-01360-0	Expanpin, ¼ Dia. x 2
20	210-02008-0	Shear Coupler
21	337-04340-0	Sprocket, 60A18
22	302-02010-0	Lock Collar, Bearing, 1 ½ I.D.
23	301-01915-0	Flangette, Bearing
24	301-02009-0	Ball Bearing, 1 ½ I.D.
25	140-02088-0	Flat Washer, 1 ½ I.D. x 1 ¾ O.D. x 10 Ga. (.134)
26	140-02091-0	Flat Washer, 1 ½ I.D. x 1 ¾ O.D. x 16 Ga. (.065)
27	137-14935-0	Sprocket, 60A14
28	105-14937-0	Shear Hub
29	303-14938-0	Hex Bolt, ¾ - 20 x 2 ¼ Gr 5
30	322-04237-0	Lock Nut, ¼ - 20
31	322-02363-0	Hex Nut, 5/16 - 18 NC
32	340-02362-0	Lock Washer, 5/16
33	303-03297-0	Carriage Bolt, 5/16 - 18 NC x 1
34	303-01073-0	Hex Cap Screw, ½ - 13 NC x 1 ¼
35	340-00537-0	Lock Washer, ½
36	340-00520-0	Flat Washer, ½
37	116-11964-1	Spin Shield, L.H. (850) A
	116-11964-3	Spin Shield, L.H. (800) A
	447-12118-0	Caution Decal
38		Important Decal
39	447-12117-0	5/16 x ¾ Set Screw Sq. Head
40	303-03351-0	Key, Par 5/16 Sq. x 1 ¼
41	119-02022-0	

FRAME ASSEMBLY

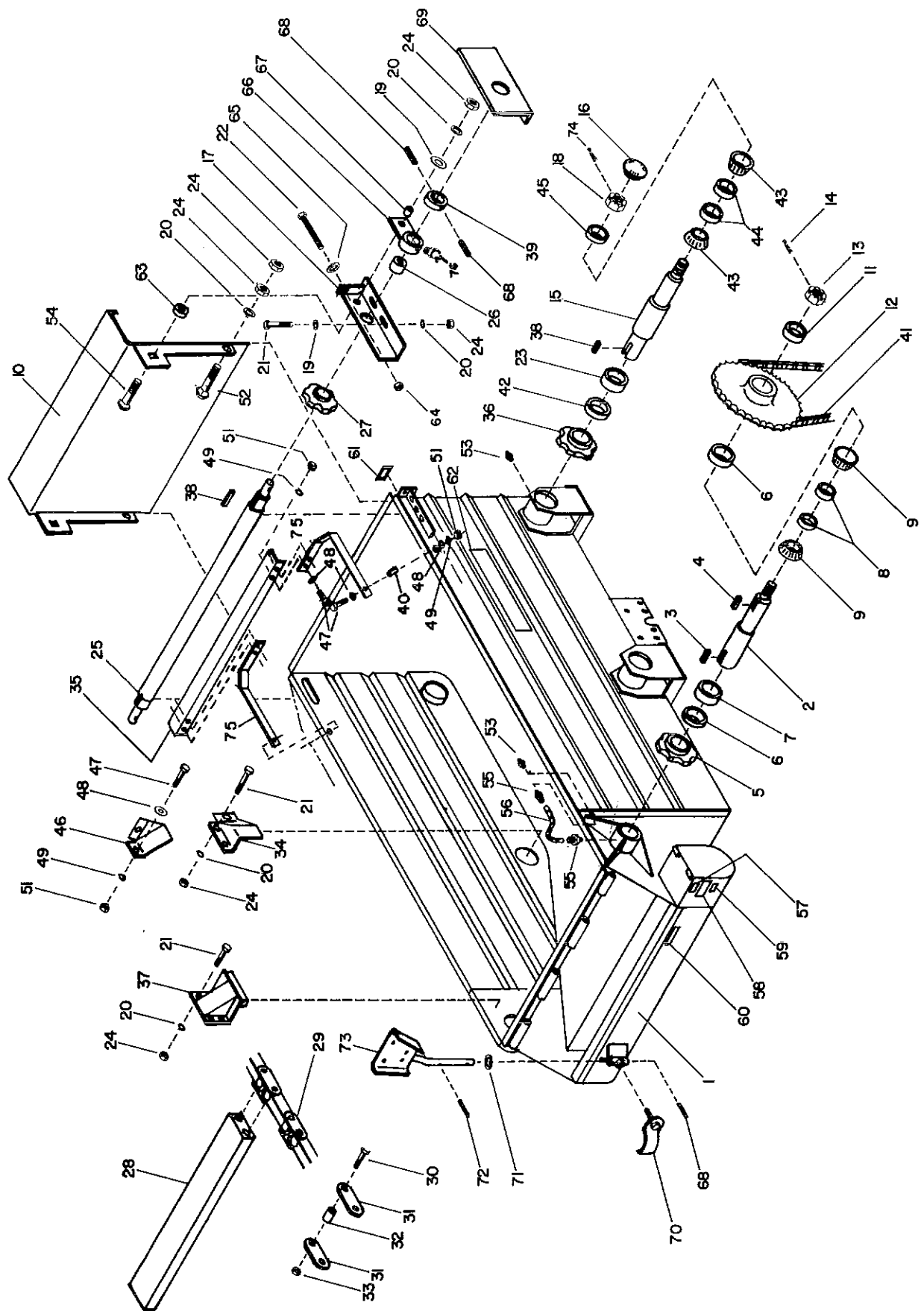


KEY	PART NUMBER	DESCRIPTION
1	212-03963-0	Main Frame, (800) A
	212-04236-0	Main Frame, (850) A
2	132-04482-0	Spindle, (800) A
	132-04227-0	Spindle, (850) A
3	341-00758-0	Wheel, Heavy Duty, 15 x 6 (800) A
	341-01871-0	Wheel, Heavy Duty, 15 x 8 (800) A
	341-03299-0	Wheel, Heavy Duty, 15 x 10 (800) A
	341-04226-0	Wheel, Heavy Duty, (850) A
4	341-03542-0	Hub Cap (800) A
	341-04228-0	Hub Cap (850) A

FRAME ASSEMBLY (continued)

KEY	PART NUMBER	DESCRIPTION
5	322-02071-0	Hex Nut, Slotted, $\frac{3}{4}$ - 16 NF
6	319-02663-0	Cotter Pin, 5/32 Dia. x 1 $\frac{1}{2}$
7	340-02072-0	Flat Washer
8	301-01263-0	Bearing, Outside Wheel
9	301-01886-0	Race, Outside Wheel Bearing
10	341-00759-0	Hub, Heavy Duty (800) A, (Includes Items 9, 11, 26 & 20)
	341-04233-0	Hub, Heavy Duty (850) A, (Includes Items 9 & 11)
11	301-01893-0	Race, Inside Wheel Bearing (800) A
	301-04232-0	Race, Inside Wheel Bearing (850) A
12	301-00760-0	Bearing, Inside Wheel (800) A
	301-04231-0	Bearing, Inside Wheel (850) A
13	218-15163-0	Crank Assembly
14	323-16716-0	Pin and Chain Assembly
15	112-13299-0	Mounting Tube
16	218-15164-0	Thrust Bearing Assembly
17	218-15167-0	Inner Tube Assembly
18	318-16715-0	Outer Tube Assembly
19	318-13302-0	Jack, Complete Assembly
20	303-04670-0	Hub Bolt (800) A
21	322-99051-0	Hex Lock Nut, 1" - 8 NC
22	340-00335-0	Lock Washer, Spring Type, 1"
23	303-03673-0	Hex Cap Screw, $\frac{3}{4}$ - 10 NC x 6 $\frac{1}{2}$
24	132-12478-0	Hitch Bar
25	334-12113-0	Seal, Inner Wheel Bearing
26	322-04671-0	Wheel Nut (800) A
	322-04244-0	Lug Bolt (850) A
27	340-03680-0	Lock Washer, Spring Type, $\frac{3}{4}$
28	322-03675-0	Hex Nut, $\frac{3}{4}$ - 10 NC
29	121-03674-0	Hitch Clevis
30	308-11929-0	Safety Chain (complete)
31	303-03856-0	Hex Cap Screw, $\frac{1}{2}$ - 13 NC x 4
32	341-00537-0	Lock Washer, $\frac{1}{2}$
33	322-00536-0	Hex Nut, $\frac{1}{2}$ - 13 NC
34	204-04198-0	Spindle Mounting Bracket
35	303-01477-0	Hex Cap Screw, $\frac{1}{2}$ - 13 NC x 1 $\frac{1}{2}$
36	320-04199-0	Kit, Lock Pin Assembly
37	341-14864-0	Tire, 10:00 x 15 - 8 Ply Implement Tread, Tubeless (800) A
	341-14863-0	Tire, 11 L x 15 - 8 Ply Implement Tread, Tubeless (800) A
	341-05023-0	Tire, 13.5 x 16.1 - 8 Ply Diamond Tread (850) A
38	204-04669-0	Optional Spindle Mounting Bracket, Used to raise box 4" higher
39	342-16442-0	Valve Stem, Core w/Cap

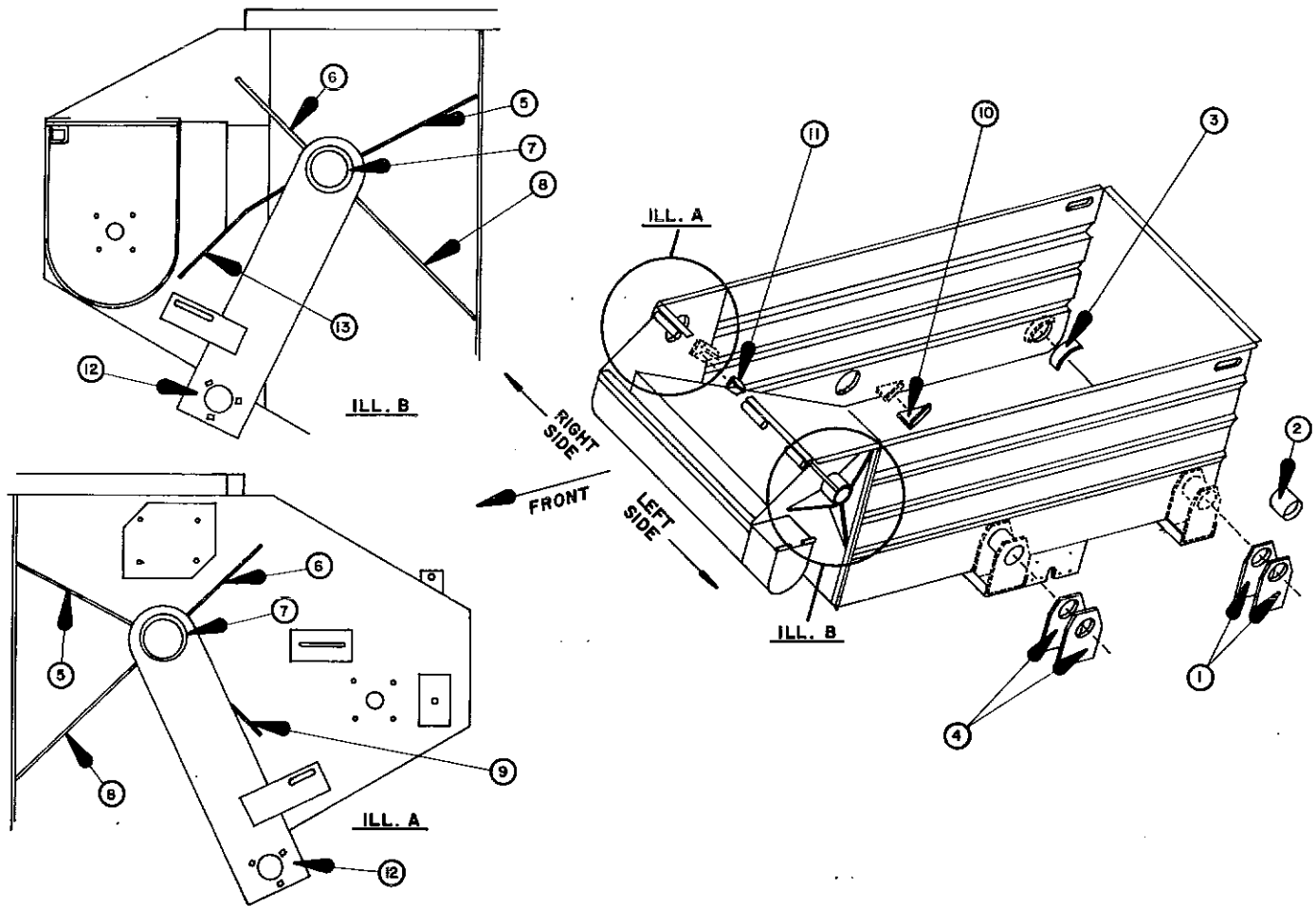
SILAMIX BOX AND DRIVE ASSEMBLY



KEY	PART NUMBER	DESCRIPTION	KEY	PART NUMBER	DESCRIPTION
1	212-11560-0	Silamix Box Assembly (800) A	35	142-16267-0	Scraper Angle (800) A
2	212-11561-0	Silamix Box Assembly (850) A		142-16277-0	Scraper Angle (850) A
3	132-04202-0	Driver Spindle	36	437-04015-0	Cast Sprocket, Lower Idler
4	119-04203-0	Key, 1/2 Sq. x 3/4 Hard	37	215-04016-0	Chain Guide
5	119-04204-0	Key, 1/2 Sq. x 2 1/2 Hard	38	119-02153-0	Key, 3/8 Sq. x 2
6	337-04205-0	Sprocket, Inside Drive	39	112-15525-0	Collar, Idler End *
7	334-04206-0	Seal, Driver Hub, 2-7/8 I.D.	40	336-03346-0	Spacer Tube, .375 I.D. x .281
8	136-04207-0	Spacer, 2 1/4 I.D. x 2-7/8 O.D.	41	408-04221-0	Chain, No. 60 Roller, 128 Pitches includes Conn. Link
9	301-04208-0	Race, Inner and Outer Bearing		308-01012-0	No. 60 Connector Link
10	301-04209-0	Bearing	42	334-03992-0	Seal, 2" I.D.
	212-04210-0	Rear Baffle (800) A	43	301-00760-0	Bearing Cone
	212-04263-0	Rear Baffle (850) A	44	301-01893-0	Race, for Inner and Outer Bearing
11	140-03993-0	Flat Washer, 3/4 I.D. x 3.0 O.D. x 3/16	45	340-04218-0	Flat Washer, 1" I.D.
12	337-04212-0	Sprocket, 60C103	46	212-04219-0	Cleaner Plate, L.H.
13	322-02071-0	Hex Nut, Slotted 3/4 - 16 NF	47	212-04220-0	Cleaner Plate, R.H.
14	319-03585-0	Cotter Pin, 5/32 Dia. x 1 1/4	47	303-00669-0	Hex Cap Screw, 3/8 - 16 NC x 1 1/4
15	132-04213-0	Idler Spindle	48	303-02119-0	Flat Washer, 3/8
16	341-03882-0	Hub Cap	49	303-02118-0	Lock Washer, 3/8
17	204-15260-0	Tightener Bracket, L.H. *	50	303-00539-0	Carriage Bolt, 1/2 - 13 NC x 1
	204-15259-0	Tightener Bracket, R.H. *	51	322-02726-0	Hex Nut, 3/8 - 16 NC
18	322-04211-0	Hex Nut, Slotted, 1" - 14 NF	52	303-01811-0	Carriage Bolt, 1/2 - 13 NC x 1 1/4
19	340-00520-0	Flat Washer, 1/2	53	342-01317-0	Grease Zerk, Straight, 1/8 NPT
20	340-00537-0	Lock Washer, 1/2	54	303-99120-0	1/2 - 13 x 2 CRG Bolt/G5/ZN *
21	303-01073-0	Hex Cap Screw, 1/2 - 13 NC x 1 1/4	55	317-11775-0	Adaptor, 1/8 NPT Male
22	221-15258-0	Rod, 5/8 Dia. *	56	317-11776-0	Hose, 1/4 I.D.
23	136-04004-0	Idler Spindle Sleeve	57	447-12115-0	Amber Reflector
24	322-00536-0	Hex Nut, 1/2 - 13 NC	58	447-11543-0	Caution Decal
25	132-15523-0	Shaft, Idler Adjustment (800A), w/keyways *	59	447-11538-0	Caution Decal
	132-15524-0	Shaft, Idler Adjustment (850A), w/keyways *	60	447-04612-0	Scale Bracket Decal
26	305-04455-0	Oilite Bushing	61	447-12116-0	Red Reflector
27	137-15270-0	Idler Sprocket, Upper (with Keyway) *	62	447-12099-0	Decal, Arts-Way
28	212-04007-0	Slat (800) A	63	112-14463-0	Spacer *
	212-04265-0	Slat (850) A	64	322-02045-0	Hex Nut 5/8 *
29	700-04214-0	Apron Chain complete with Slats (800) A	65	340-03521-0	Washer 5/8 SAE Flat
	700-04214-1	Apron Chain complete without Slats (800) A	66	205-15256-0	Bearing (item 26 and 76 included) *
	700-04266-0	Apron Chain complete with Slats (850) A	67	104-15271-0	Spacer *
	700-04266-1	Apron Chain complete without Slats (850) A	68	323-01256-0	Roll Pin *
	208-12308-0	Chain Assembly, 12 Bolt Section (800A & 850A)	69	133-15378-0	Shield, R.H. *
	208-12309-0	Chain Assembly, 14 Bolt Section (850) A		133-15377-0	Shield, L.H. *
30	303-04215-0	Special Bolt, 5/8 - 11 NC x 3-5/16	70	242-15549-0	Lock, Scale Pivot
	303-04216-0	Special Bolt, for Slats, 5/8 - 11 NC 3-11/16	71	340-07356-0	Washer, Flat, 7/8 x 1-3/8
31	108-04008-0	Side Bar	72	323-99110-0	Pin, Expan
32	136-04217-0	Spacer Roller	73	204-15551-0	Bracket Weld Assembly Scale Pivot
33	322-03885-0	Hex Lock Nut, 5/8 - 11 NC	74	319-00395-0	Cotter Pin 3/16 x 2
34	212-04012-0	Chain Cleaner, R.H.	75	104-16268-0	Scraper End Bracket
	212-04013-0	Chain Cleaner, L.H.	76	324-03517-0	Zerk, 1/8 - 27 NPT

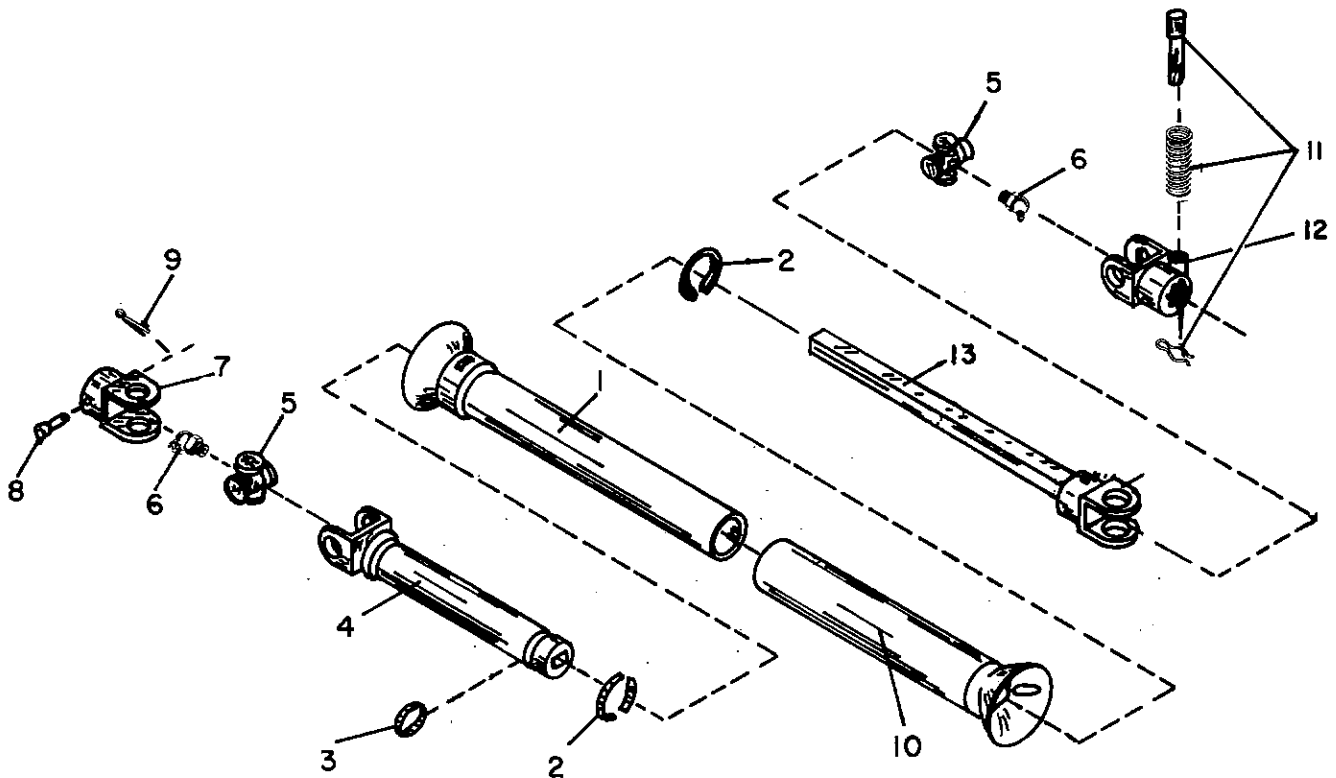
* after serial number 80800A2678

BOX REPAIR PARTS



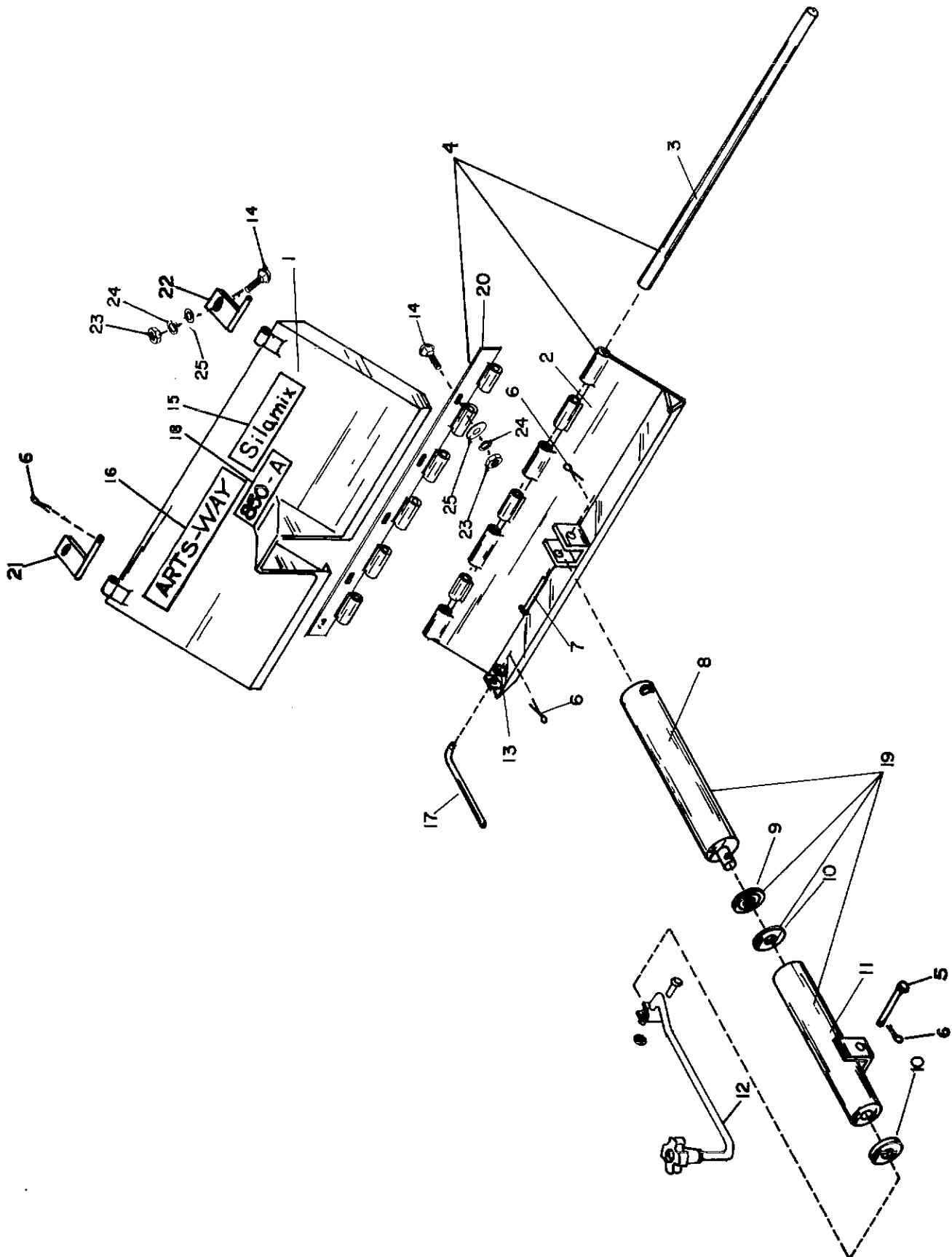
KEY	PART NUMBER	DESCRIPTION
1	112-11533-0	Rear Hub Plate (4)
2	236-11531-0	Idler Hub Assembly (4)
3	133-11578-0	Back Idler Cover (2)
4	112-11534-0	Front Hub Plate (4)
5	149-11612-0	No. 2 Drive Hub Gusset (2)
6	149-11611-0	No. 1 Drive Hub Gusset (2)
7	236-11598-0	Front Drive Hub Assembly (2)
8	149-11614-0	No. 4 Drive Hub Gusset (2)
9	149-11613-0	No. 3 Drive Hub Gusset (1)
10	104-11615-0	Shield Support Bracket, R.H., (1)
	104-11616-0	Shield Support Bracket, L.H., (1)
11	212-11630-0	Plow Assembly, R.H., (1)
	212-11629-0	Plow Assembly, L.H. (1)
12	104-11622-0	Bearing Arm (2)
13	149-11584-0	Combination Filler Gusset (1)

POWER SHAFT ASSEMBLY



KEY	PART NUMBER	DESCRIPTION
1	433-04284-0	Inner Safety Shield and Bell (Includes Item 2)
2	301-03989-0	Nylon Center Support Bearing Half (2 pieces/set)
3	301-01033-0	Nylon Center Support Bearing
4		Yoke, Tube, and Sleeve (Not serviced separately, order Implement Half — 326-04667-0)
5	370-03978-0	Center Cross Repair Kit
6	324-03517-0	Grease Fitting, 1/8 - 27 NPT x 65°
7	426-03977-0	Yoke, 1 1/4 Bore
8	323-03418-0	Clevis Pin, 5/16 Dia. x 2 1/2
9	319-02070-0	Cotter Pin, 5/32 Dia. x 1
10	433-15594-0	Outer Safety Shield and Bell (Includes Item 2)
11	326-01030-0	Kit, Lock Pin, Spring and Lock
12	326-03980-0	Q.D. Tractor Yoke
13		Yoke and Shaft (Not serviced separately, order Tractor Half — 426-15592-0)
	426-15606-0	Complete Power Shaft
	426-15592-0	Tractor Half Assembly
	326-04667-0	Implement Half Assembly

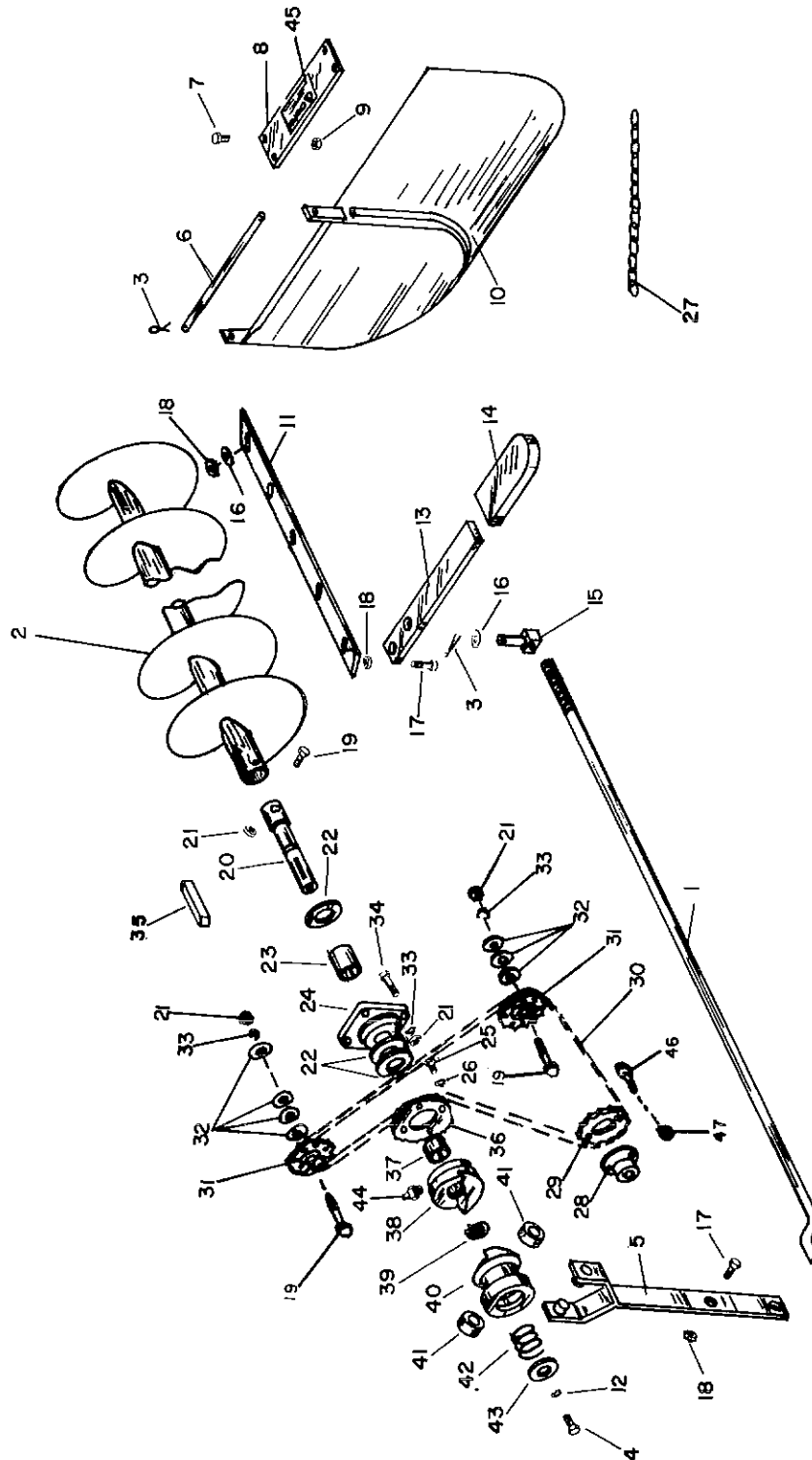
DOOR ASSEMBLY



DOOR ASSEMBLY

KEY	PART NUMBER	DESCRIPTION
1	233-04268-0	Auger Hood (800) A
	233-04273-0	Auger Hood (850) A
2	212-04269-0	Gate (800) A
	212-04274-0	Gate (850) A
3	130-04270-0	Rod, Hinge (800) A
	132-04275-0	Rod, Hinge (850) A
4	220-04708-0	Gate Assembly, includes Items 2, 20, & 3 (800) A
	220-04709-0	Gate Assembly, includes Items 2, 20, & 3 (850) A
5	323-04374-0	Clevis Pin, 3/8 Dia. x 3 $\frac{3}{4}$
6	319-02070-0	Cotter Pin, 5/32 Dia. x 1
7	323-02142-0	Clevis Pin, 3/8 Dia. x 2 $\frac{3}{4}$
8	418-04292-0	Inner Tube, Jack
9	301-04293-0	Bearing, Roller (Nice No. 603)
10	440-04405-0	Flat Washer, $\frac{1}{2}$ I.D.
11	418-04294-0	Outer Tube, Jack
12	218-15163-0	Crank Assembly
13	340-04025-0	Flat Washer, $\frac{1}{2}$
14	303-02017-0	Carriage Bolt, 3/8 - 16 NC x 1
15	447-12120-0	Silamix Decal
16	447-12099-0	Arts-Way Decal
17	109-04272-0	Indicator Rod
18	447-11786-0	Model 800 Decal
	447-11991-0	Model 850 Decal
	447-04115-0	- A Decal
19	418-04271-0	Jack, Complete Assembly
20	212-04494-0	Mounting Bracket (800) A
	212-04495-0	Mounting Bracket (850) A
21	215-04698-0	Hinge Post, R.H.
22	215-04699-0	Hinge Post, L.H.
23	322-02726-0	Hex Nut, 3/8 - 16 NC
24	303-02118-0	Lock Washer, 3/8 Lock
25	303-02119-0	Flat Washer, 3/8 Flat

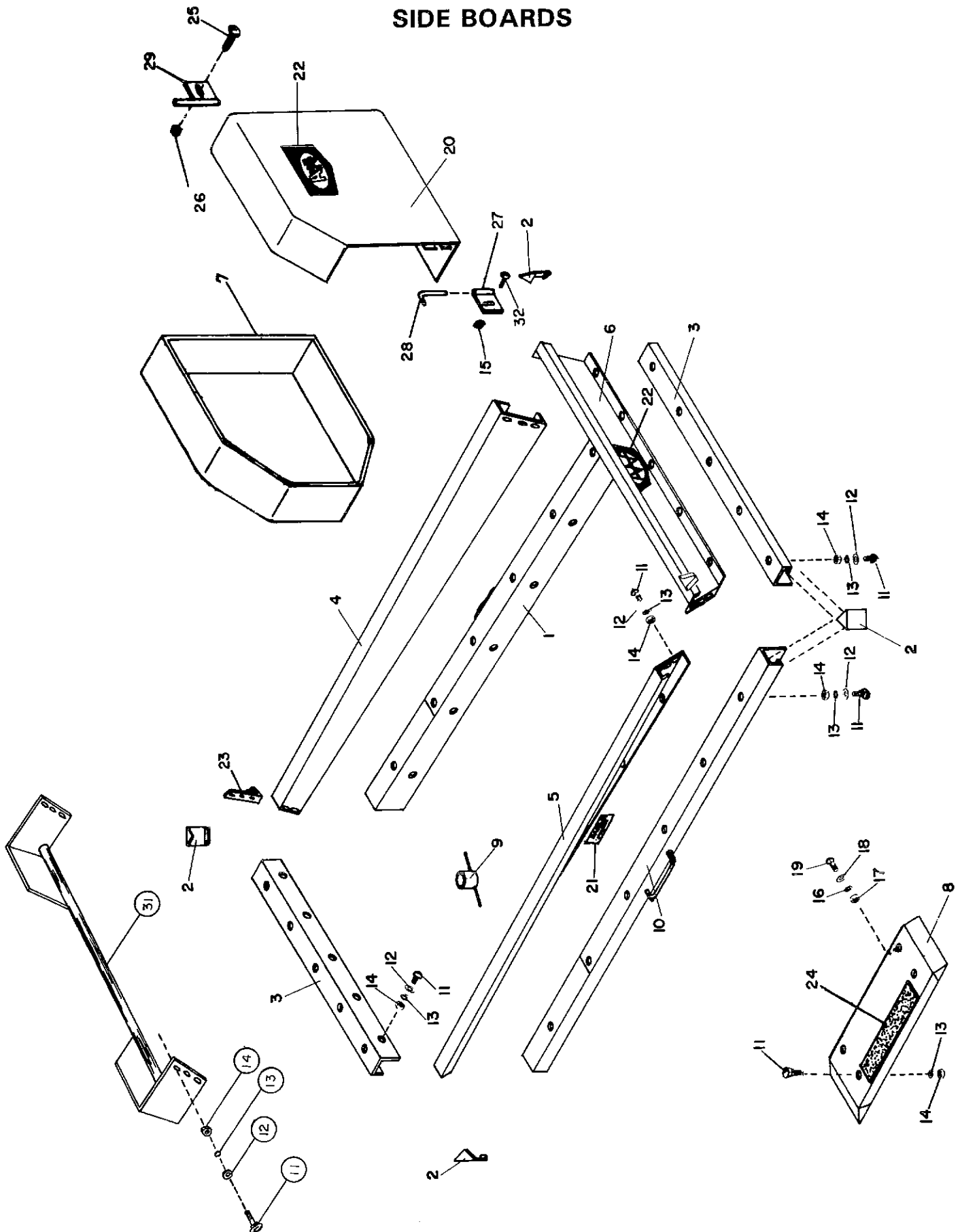
DISCHARGE AUGER ASSEMBLY



DISCHARGE AUGER ASSEMBLY

KEY	PART NUMBER	DESCRIPTION
1	129-04193-0	Clutch Rod (800A)
	129-04194-0	Clutch Rod (850A)
2	245-11765-0	Auger, Main Discharge (800A)
	245-11764-0	Auger, Main Discharge (850A)
3	119-02070-0	Cotter Pin, 5/32 x 1
4	303-01226-0	Hex Cap Screw, 3/8 - 16 NC x 1
5	209-04192-0	Clutch Arm
6	132-04185-0	Hinge Shaft
7	303-01214-0	Hex Cap Screw, 5/16 - 18 NC x ¾
8	204-04186-0	Top Support Bracket
9	322-02363-0	Hex Nut, 5/16 - 18 NC
10	216-04190-0	Discharge Spout (800A)
	216-12100-0	Discharge Spout (850A)
11	112-11432-0	Cleaner Plate
12	303-02118-0	Lock Washer, 3/8
13	109-04191-0	Clutch Lever
14	442-02156-0	Grip
15	203-01217-0	Eyebolt, Special
16	303-02119-0	Flat Washer, 3/8
17	303-00669-0	Hex Cap Screw, 3/8 - 16 NC x 1 ¼
18	322-02306-0	Hex Lock Nut, 3/8 - 16 NC
19	303-00708-0	Hex Cap Screw, ½ - 13 NC x 2 ½
20	132-02580-0	Plug, Drive
21	322-00536-0	Hex Nut, ½ - 13 NC
22	140-02577-0	Washer, 1 ¼ I.D. x 1-7/8 O.D. x 14 Ga. (.083)
23	136-02578-0	Spacer, 1 ¼ Pipe
24	301-00867-0	Bearing, 1 ¼ Flange Block
25	303-00590-0	Hex Cap Screw, 5/16 - 18 NC x 1
26	340-02362-0	Lock Washer, 5/16
27	408-04919-0	Chain, 22 Links
28	210-02008-0	Shear Hub
29	437-04340-0	Sprocket, 60A18
30	408-11313-0	Chain, No. 60 Roller, 98 Pitches, includes 1 Conn. Link
31	337-02184-0	Sprocket, 15T Idler
32	340-00520-0	Flat Washer, ½
33	340-00537-0	Lock Washer, ½
34	303-01477-0	Hex Cap Screw, ½ - 13 NC x 1 ½
35	119-03506-0	5/16 Sq. x 2 ½ Key
36	437-02575-0	Sprocket, 60A18
37	305-02573-0	Oilite Bushing
38	244-16513-0	Drive Clutch Assembly, includes Item 37 - Oilite Bushing
39	335-02571-0	Snap Ring
40	444-11178-0	Sliding Clutch, L.H.
41	301-01375-0	Bearing, ½ I.D.
42	438-02570-0	Spring, Compression
43	140-02569-0	Flat Washer, 3/8 I.D. x 1 ¼ O.D. x 10 Ga. (.134)
44	342-01317-0	Grease Zerk, Straight, 1/8 - 26 NPT
45	447-12119-0	Caution Decal
46	303-04296-0	Bolt, ¾ - 20 x 1" 65
47	322-04237-0	Nut, ¾ - 20 Hex Nut

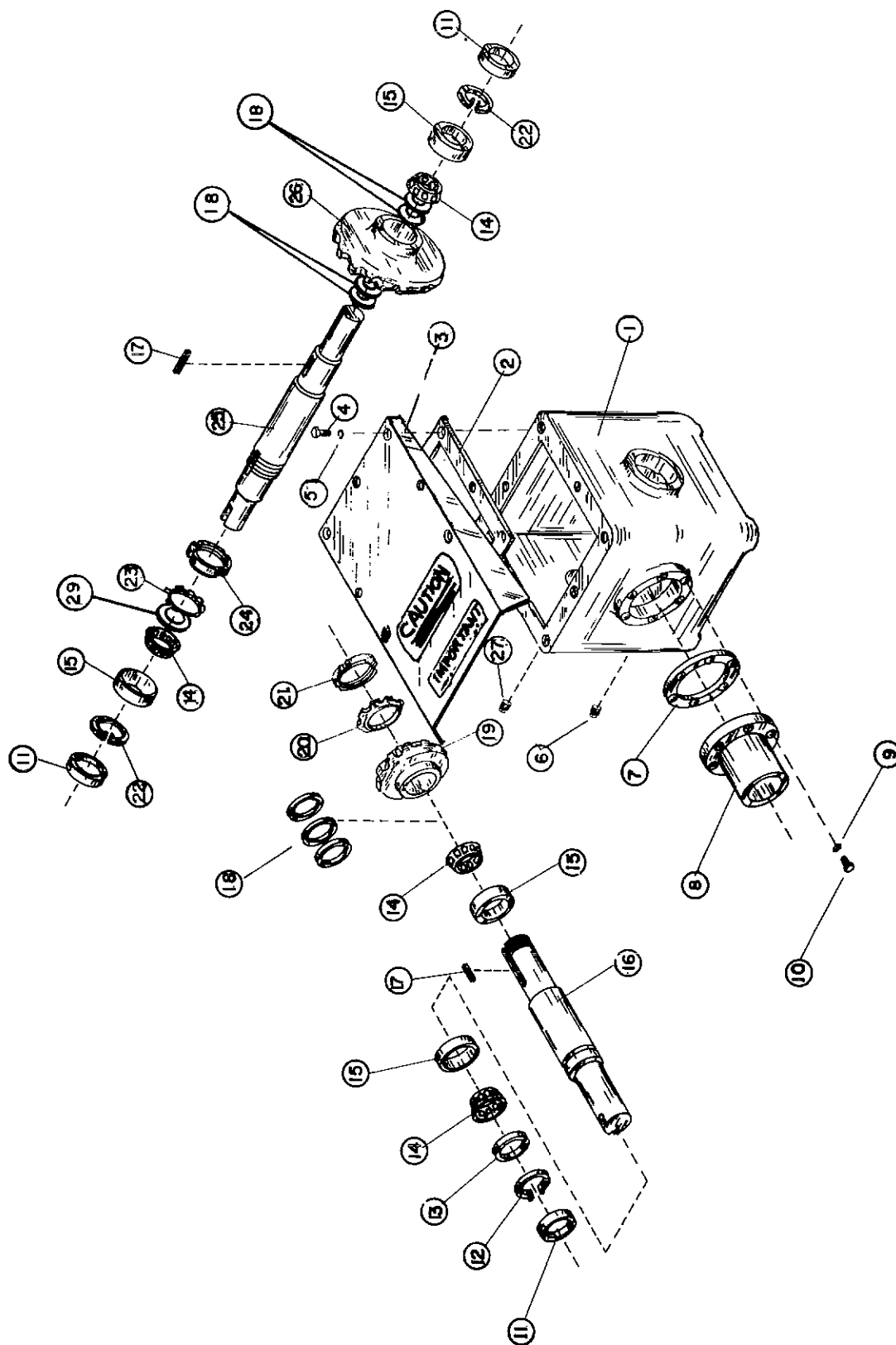
SIDE BOARDS



SIDE BOARDS

KEY	PART NUMBER	DESCRIPTION
1	212-04048-0	Side Rail, L.H. (800A)
	212-04250-0	Side Rail, L.H. (850A)
2	104-04049-0	Corner
3	112-04050-0	Front and Back Rail (800A)
	112-04251-0	Front and Back Rail (850A)
4	112-04051-0	Side Board, L.H. (800A)
	212-04252-0	Side Board, L.H. (850A)
5	112-04052-0	Side Board, R.H. (800A)
	212-04253-0	Side Board, R.H. (850A)
6	212-16531-0	Side Board, Front (800A)
	212-16532-0	Side Board, Front (850A)
7	233-11310-0	Shield, R.H. Drive
8	233-04054-3	Fender, with Anti-Slip Tape (800A)
	233-04259-1	Fender, R.H. and L.H. with Anti-Slip Tape (850A)
9	224-03705-0	Drain Cap
10	212-04055-0	Side Rail, R.H. (800A)
	212-04256-0	Side Rail, R.H. (850A)
11	303-02017-0	Carriage Bolt, 3/8 - 16 NC x 1
12	303-02119-0	Flat Washer, 3/8
13	303-02118-0	Lock Washer, 3/8
14	322-02726-0	Hex Nut, 1/2 - 13 NC
15	322-02327-0	Flanged Hex Nut, 1/4 - 20 NC, Whiz Lock
16	340-00537-0	Lock Washer, 1/2
17	322-00536-0	Hex Nut, 1/2 - 13 NC
18	340-00520-0	Flat Washer, 1/2
19	303-03047-0	Carriage Bolt, 1/2 - 13 NC x 1 1/4 Short Neck
20	233-04249-0	Shield, L.H. Drive
21	447-11777-0	Decal, Danger
22	442-04326-0	Decal, Arts-Way
23	104-04713-0	Reinforcement Bracket, R.H.
	104-04713-1	Reinforcement Bracket, L.H.
24	447-11772-0	Anti-Slip Surface Tape (800A)
	447-11773-0	Anti-Slip Surface Tape (850A)
25	303-01241-0	Carriage Bolt, 5/16 - 18 NC x 3/4
26	322-02019-0	Flanged Hex Nut, 5/16 - 18 NC, Whiz Lock
27	204-04710-0	Bracket
28	123-04711-0	Pin
29	215-04702-0	Hinge Post
30	303-03523-0	Truss Head Machine Screw, 1/4 - 20 NC x 3/4
31	233-14014-0	Rear Guard (800A)
	233-14396-0	Rear Guard (850A)

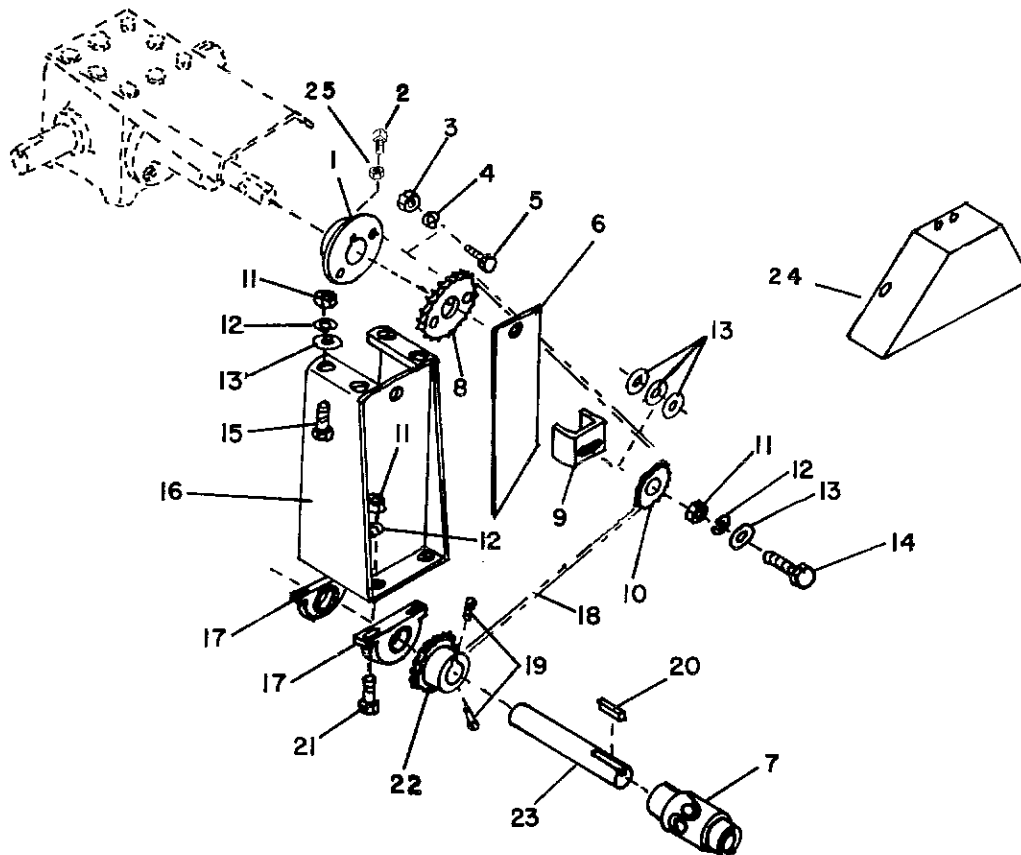
GEARBOX ASSEMBLY



GEARBOX ASSEMBLY

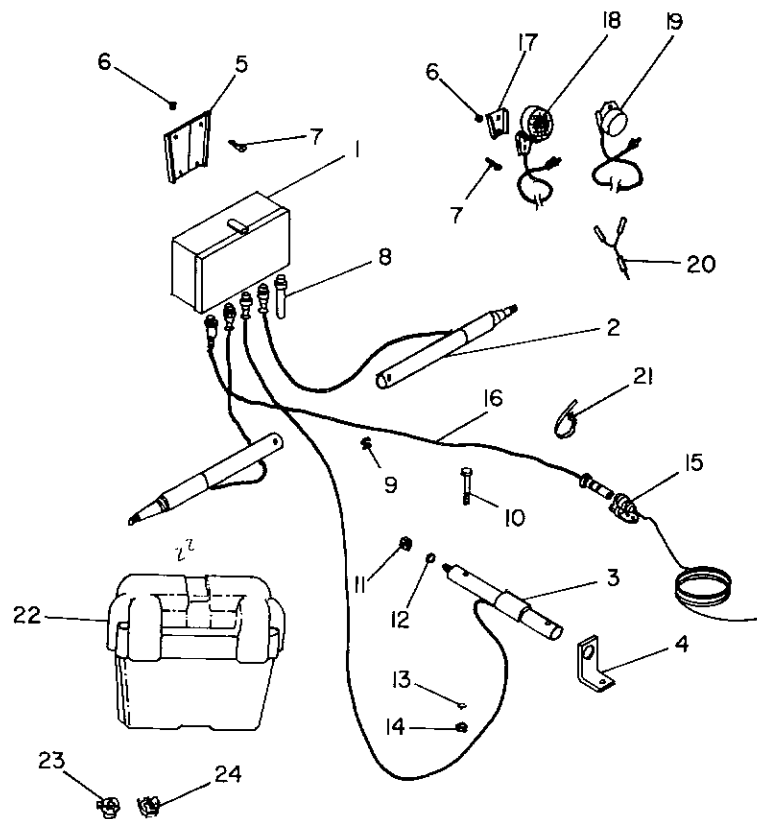
KEY	PART NUMBER	DESCRIPTION
1	416-04428-0	Gearbox Housing
2	413-04429-0	Gasket
3	133-04453-0	PTO Cover
4	303-01214-0	Hex Cap Screw, 5/16 - 18 NC x ¾
5	340-02362-0	Lock Washer, 5/16
6	331-04431-0	Pipe Plug, ¾ - 14 NPT
7	413-04432-0	Gasket
8	416-04433-0	Input Housing
9	303-02118-0	Lock Washer, 3/8
10	303-00669-0	Hex Cap Screw, 3/8 - 16 NC x 1¼
11	334-04434-0	Seal
12	335-04435-0	Retaining Ring
13	405-04436-0	Washer, 1-3/8 I.D. x 2 O.D. x ¼
14	301-04437-0	Bearing
15	301-04438-0	Race
16	132-04439-0	Input Shaft
17	119-04440-0	Key, 5/16 Sq. x 1-3/8
18	140-04441-0	Flat Washer, 1-3/8 I.D. x 2-1/8 O.D. x 14 Ga. (.083)
	140-04442-0	Flat Washer, 1-3/8 I.D. x 2-1/8 O.D. x 16 Ga. (.065)
	140-04443-0	Flat Washer, 1-3/8 I.D. x 2-1/8 O.D. x 18 Ga. (.049)
19	414-04444-0	Bevel Gear, 15T
20	340-04445-0	Lock Washer, 1.173
21	322-04446-0	Lock Nut, 1-11/64 - 18 UNEF Special
22	335-04447-0	Retaining Ring
23	340-04448-0	Lock Washer, 1-9/16
24	322-04449-0	Lock Nut, 1-9/16 - 18 UNEF
25	132-04450-0	Output Shaft
26	414-04451-0	Bevel Gear, 30T
27	331-02034-0	Pipe Plug, ¾ - 14 NPT with Vent
28	226-04452-0	Gearbox, Complete Assembly
29	340-04679-0	Spacer Washer

POWER DRIVE UNIT FOR TRUCK MOUNTED SILAMIX 800A AND 850A MODELS



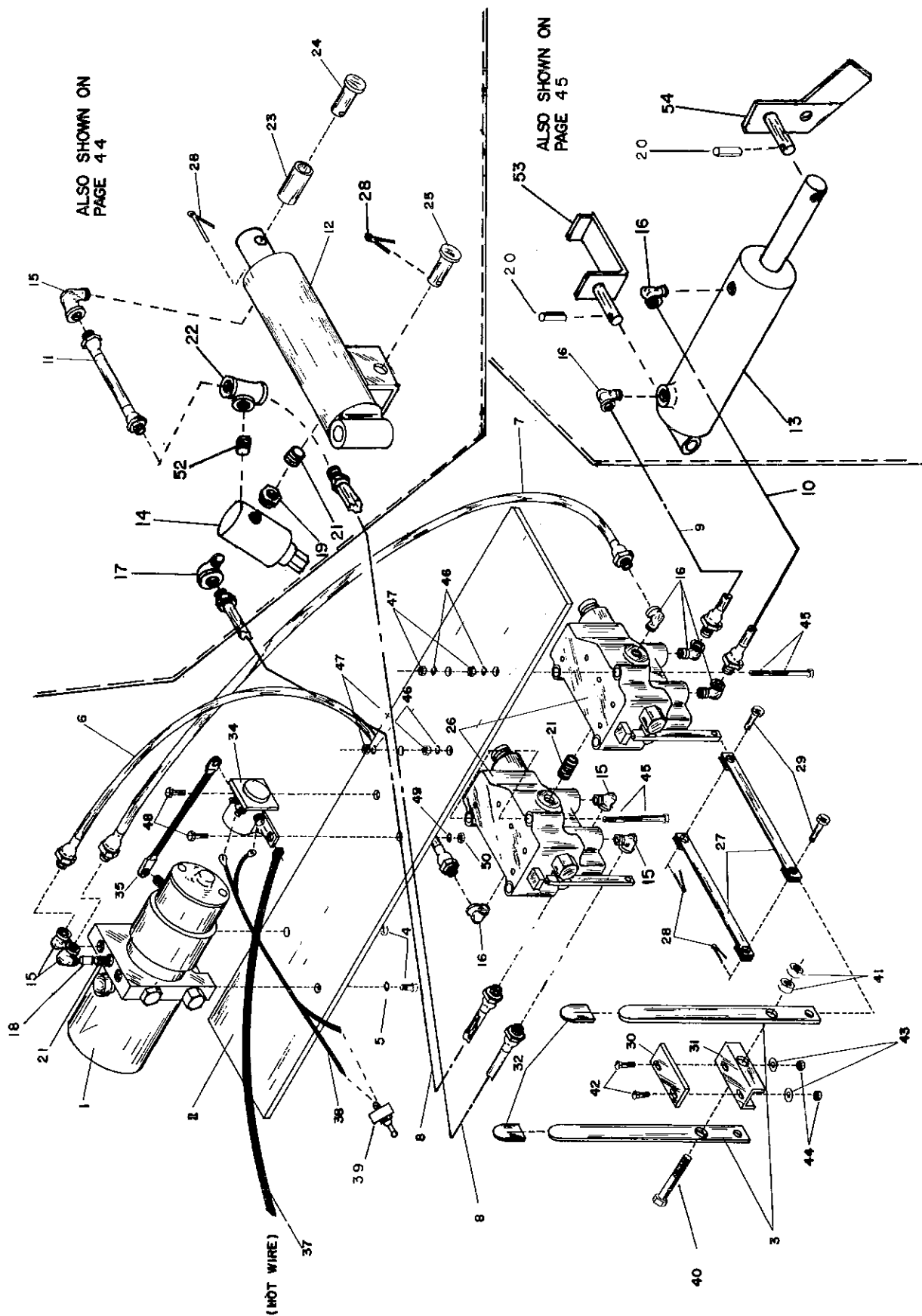
KEY	PART NUMBER	DESCRIPTION
1	210-02008-0	Shear Hub, 1½ Bore
2	303-03351-0	Sq. Head Set Screw
3	332-02726-0	Hex Nut, 3/8 - 16
4	340-02118-0	Lock Washer, 3/8
5	303-01226-0	Hex Cap Screw, 3/8 - 16 x 1
6	116-04338-0	Plate, Idler Mounting
7	426-02255-0	U-Joint, 1½ Bore
8	437-03919-0	Sprocket, 60A25
9	104-04339-0	Mounting Block, Idler
10	437-02184-0	Sprocket, 15T Idler
11	322-00536-0	Hex Nut, ½ - 13 NC
12	340-00537-0	Lock Washer, ½
13	340-00520-0	Flat Washer, ½
14	303-00708-0	Hex Cap Screw, ½ - 13 NC x 2½
15	303-02539-0	Hex Cap Screw, ½ - 13 NC x 1¾
16	212-04320-0	Mounting Plate
17	301-03509-0	Bearing, 1½ Pillow Block
18	408-04221-0	Chain, No. 60 Roller (Chain must be shortened for some model of trucks.) Includes 1 Conn. and 1 Offset
19	303-04334-0	Hex Socket Head Set Screw, No. 8 - 32 NC x 3/8 Cup Point
20	119-02579-0	Key, 5/16 Sq. x 3½
21	303-01477-0	Hex Cap Screw, ½ - 13 NC x 1½
22	237-04280-0	Sprocket, 60B14
23	132-04335-0	Shaft, 1½
	220-14878-1	Power Drive Unit Kit, Complete
24	233-16481-0	Shield, Drive Chain
25	322-03850-0	Nut, 5/16 JAM

ELECTRONIC SCALE AND RELATED ACCESSORIES



KEY	PART NUMBER	DESCRIPTION
1	426-04056-0	Indicator unit, analog, 15,000 lb. x 2
	426-04057-0	Indicator unit, analog, 30,000 lb. x 4
	446-11184-0	Indicator unit, digital, 10,000 lb. x 2
	446-13658-0	Indicator unit, digital, 25,000 lb. x 5
2	446-04415-0	Axle Weigh Bar, 2-1/8 x 2-1/8, 18' Cord, (800A)
	446-04061-0	Axle Weigh Bar, 18' Cord, (850A)
3	446-13225-0	Hitch Weigh Bar, 21' Cord
4	121-03674-0	Hitch clevis
5	104-03667-0	Bracket for mounting indicator unit
6	322-02327-0	Whiz Lock Nut with Flange, 1/4 - 20 NC
7	303-02124-0	Truss Head Screw, 1/4 - 20 NC x 1/2
8	446-03676-0	Adaptor
9	438-03689-0	Wire Clip
10	303-03673-0	Hex Cap Screw, 3/4 - 10 NC x 6 1/2
11	322-14731-0	Hex Nut, 1" - 8 NC
12	340-00335-0	Lock Washer, Spring Type, 1"
13	340-03680-0	Lock Washer, Spring Type, 3/4"
14	322-03675-0	Hex Nut, 3/4 - 10 NC
15	446-03678-0	Female connector, tractor plug with 10' Cord
16	446-03684-0	Power Cord, Analog, 18' Cord
	447-11192-0	Power Cord, Digital, 18' Cord
17	104-03926-1	Bracket for mounting horn or light
18	220-04064-0	Warning Light, Analog with 10' Cord
	220-11190-0	Warning Light, Digital with 10' Cord
19	220-11180-0	Warning Horn, Analog with 10' Cord
	220-11188-0	Warning Horn, Digital with 10' Cord
20	342-13121-0	Dual Adaptor for horn and light, Analog
21	442-14745-0	Plastic Tie, 1/8 wide and 6" long
22	346-03969-0	Battery Box with box, lid, and strap
23	342-13544-0	Positive Battery Clamp
24	342-13545-0	Negative Battery Clamp

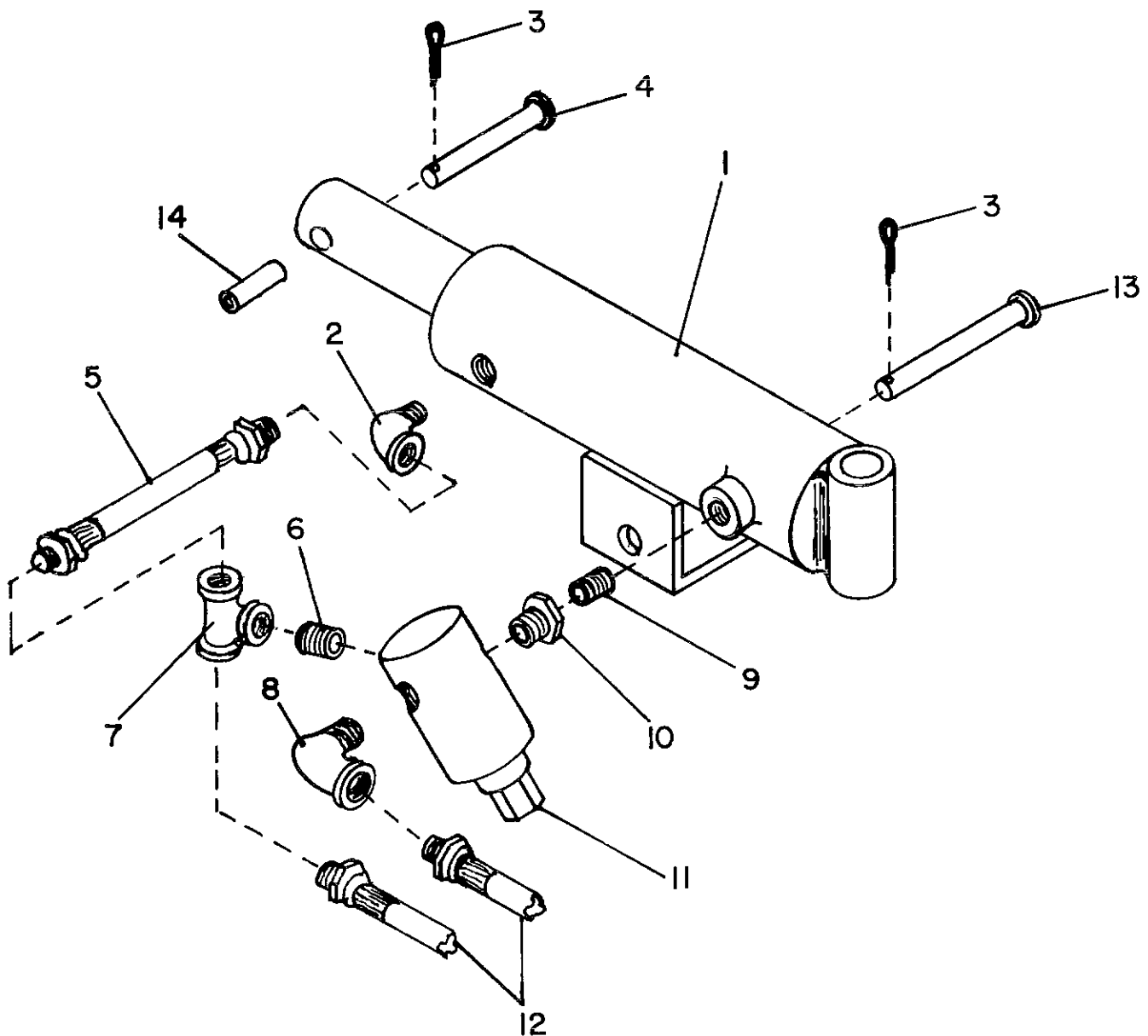
SELF-CONTAINED ELECTRIC HYDRAULIC UNIT ASSEMBLY



SELF-CONTAINED ELECTRIC HYDRAULIC UNIT ASSEMBLY

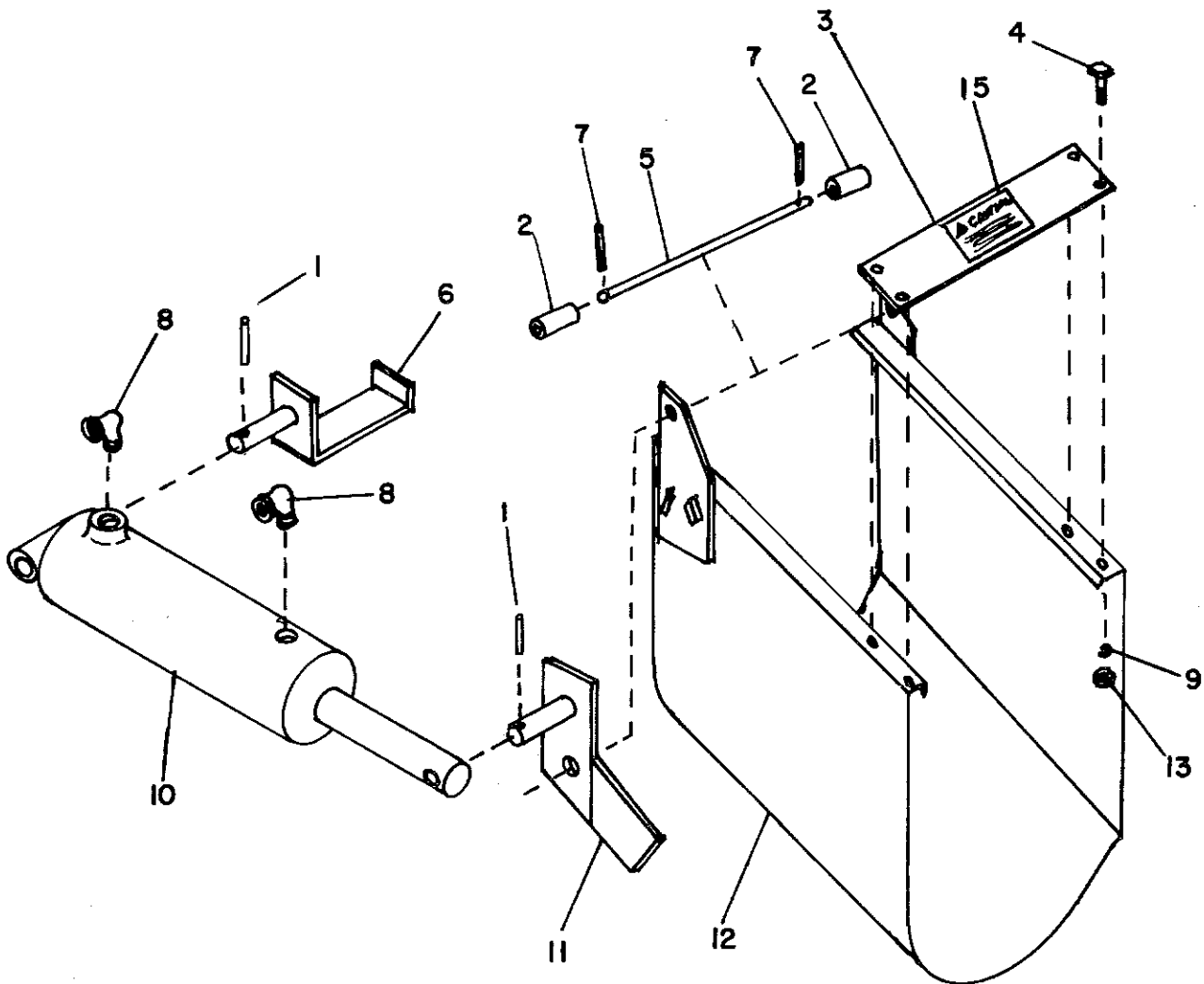
KEY	PART NUMBER	DESCRIPTION
1	326-04360-0	Pump, D.C. Power Pack (Includes Item 34)
2	104-04361-0	Mounting Bracket
3	121-04362-0	Shift Lever
4	303-01226-0	Hex Cap Screw, 3/8 - 16 NC x 1
5	303-02118-0	Lock Washer, 3/8
6	417-04664-0	Hose, Hydraulic 1/2 x 30 with Male Fittings
7	417-04664-0	Hose, Hydraulic 1/2 x 30 with Male Fittings
8	417-16616-0	Hose, Hydraulic 1/2 x 72 with Male Fittings
9	417-02317-0	Hose, Hydraulic 1/2 x 55 with Male Fittings
10	417-16613-0	Hose, Hydraulic 1/2 x 66 with Male Fittings
11	417-04175-0	Hose, Hydraulic 1/2 x 10 with One Male Fitting and One Male Swivel
12	417-04363-1	Cylinder, Hydraulic 2-Way with Bracket
13	417-04363-0	Cylinder, Hydraulic 2-Way, 2 1/2 x 8
14	417-04701-0	Relief Valve
15	324-04366-0	90° Street Elbow, 3/8 x 1/2 NPT
16	324-04366-0	90° Street Elbow, 3/8 x 1/2 NPT
17	324-00624-0	90° Street Elbow, 1/2 NPT
18	324-13059-0	Coupler, 3/8 NPT
19	324-04369-0	Bushing, 3/8 x 1/2 NPT
20	323-01255-0	Pin, Expan 1/4 x 1 1/4
21	324-04371-0	Close Nipple, 3/8 NPT
22	324-00632-0	Tee, 1/2 NPT Female
23	305-04373-0	Bushing
24	323-02142-0	Clevis Pin, 3/8 Dia. x 2 3/4
25	323-04374-0	Clevis Pin, 3/8 Dia. x 3 3/4
26	317-04375-0	Control Valve
27	221-04376-0	Linkage Arm
28	319-02070-0	Cotter Pin, 5/32 Dia. x 1
29	323-04377-0	Clevis Pin, 1/4 Dia. x 1 1/4
30	104-04378-0	Shift Lever Mounting Plate
31	104-04379-0	Shift Lever Mounting Block
32	442-02156-0	Plastic Grip
34		Solenoid (Not serviced seperately, order Item 1)
35	446-04382-0	4 Ga. Copper Starter Cable 10" Long with Fittings
37	446-04384-0	4 Ga. Copper Starter Cable 122" Long with Fittings
38	446-04385-0	No. 16 Wire, Copper 116" Long with Fittings
39	346-17056-0	Toggle Switch
40	303-05672-0	Hex Cap Screw, 5/8 - 11 NC x 4
41	322-02045-0	Hex Nut, 5/8 - 11 NC
42	303-03518-0	Carriage Bolt, 3/8 - 16 NC x 1 1/4
43	303-02119-0	Flat Washer, 3/8
44	322-02726-0	Hex Nut, 3/8 - 16 NC
45	303-02291-0	Hex Cap Screw, 5/16 - 18 NC x 2 1/4
46	340-02362-0	Lock Washer, 5/16
47	322-02363-0	Hex Nut, 5/16 - 18 NC
48	303-01205-1	Hex Cap Screw, 1/4 - 20 NC x 3/4
49	340-02944-0	Lock Washer, 1/4
50	322-02766-0	Hex Nut, 1/4 - 20 NC
52	324-00631-0	Close Nipple, 1/2 NPT
53	204-04389-0	Cylinder Mount, Lower
54	204-04390-0	Cylinder Mount, Upper
	220-15223-0	Hydraulic Self-Contained Unit

2-WAY HYDRAULIC CYLINDER



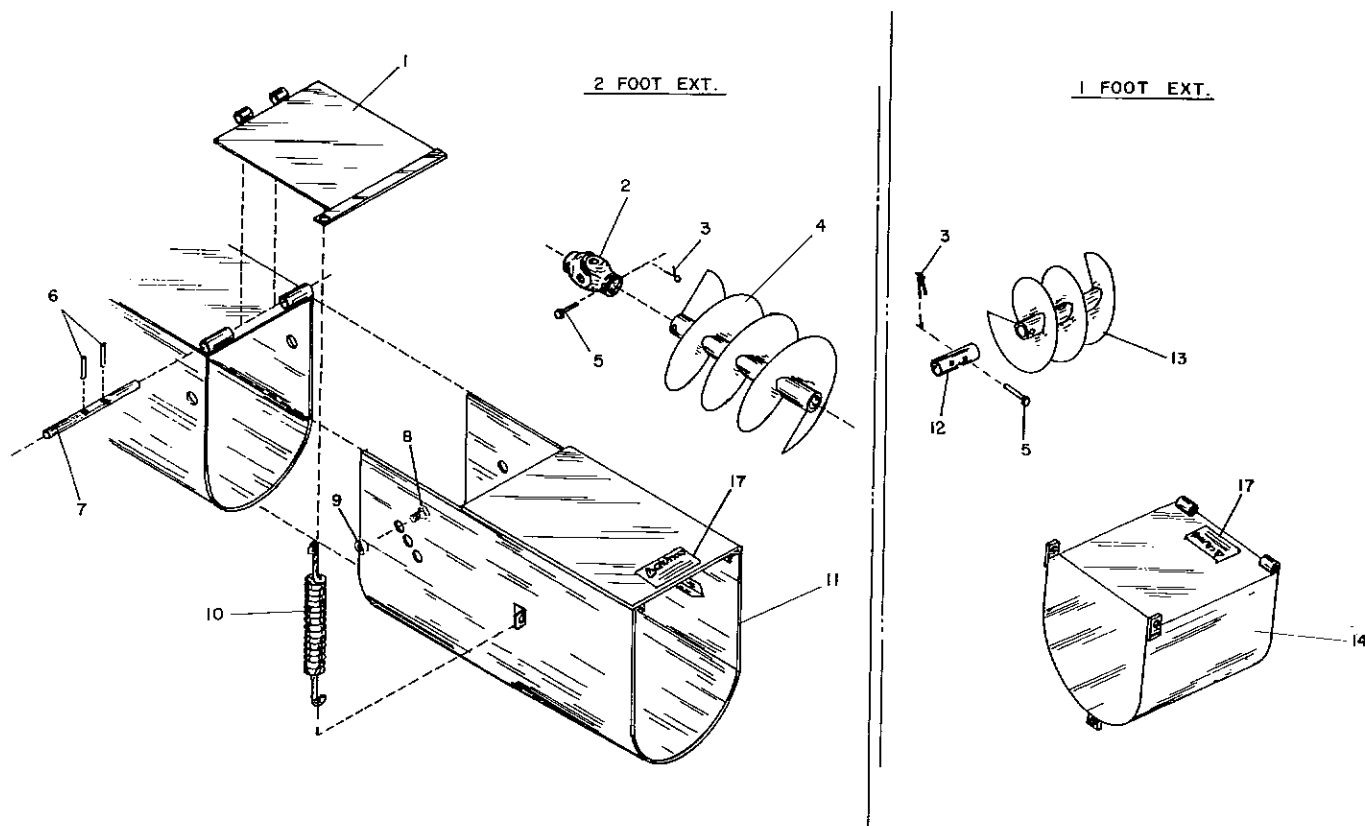
KEY	PART NUMBER	DESCRIPTION
1	417-04363-1	2-Way Hydraulic Cylinder, 2½ x 8
2	324-04366-0	90° Street Elbow, 3/8 NPT Male x ½ NPT Female
3	319-02070-0	Cotter Pin, 5/32 Dia. x 1
4	323-02142-0	Clevis Pin, 3/8 Dia. x 2¾
5	417-04175-0	Hose, ½ x 10
6	324-00631-0	Close Nipple, ½ NPT
7	324-00632-0	Pipe Tee, ½ NPT
8	324-00624-0	90° Street Elbow, ½ NPT
9	324-04371-0	Close Nipple, 3/8 NPT
10	324-04369-0	Reducer, 3/8 Female x ½ Male NPT
11	417-04701-0	Relief Valve
12	417-00571-0	Hose, Hydraulic, ½ x 9
13	323-04374-0	Clevis Pin, 3/8 Dia. x 3¾
14	305-04373-0	Bushing, 3/8 I.D. x ¾ O.D., 1½

OPTIONAL HYDRAULIC DISCHARGE CHUTE



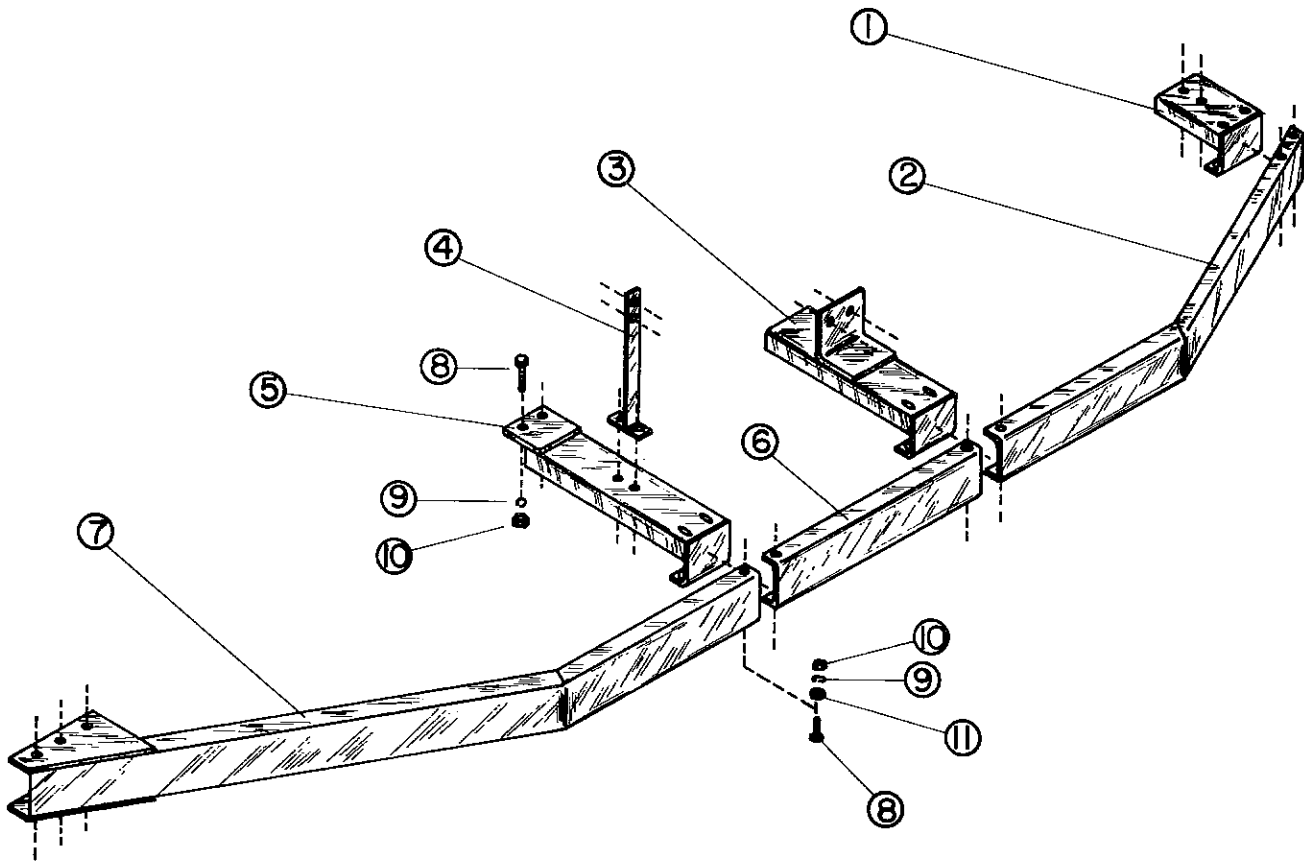
KEY	PART NUMBER	DESCRIPTION
1	323-01255-0	Expan Pin, 1/4 Dia. x 1 1/4
2	136-12101-0	Hinge Spacer (welds to wagon spout)
3	104-04186-0	Bracket, Top Support
4	303-01214-0	Hex Cap Screw, 5/16 - 18 NC x 3/4
5	132-12102-0	Hinge Shaft
6	204-04389-0	Cylinder Mount (welds to wagon spout)
7	323-99110-0	Expan Pin, 3/16 x 1 1/4
8	324-04366-0	90° Street Elbow, 3/8 x 1/2 NPT
9	340-02362-0	Lock Washer, 5/16
10	417-04363-0	Cylinder, Hydraulic 2 1/2 x 8"
11	204-04390-0	Cylinder Mount, Upper
12	216-12103-0	Chute, Discharge (12 Ga.)
13	322-02363-0	Hex Nut, 5/16 - 18 NC
14	220-12104-0	Kit, Hydraulic Chute (includes all necessary parts)
15	447-12119-0	Caution Decal

OPTIONAL AUGER EXTENSIONS FOR 800A AND 850A SILAMIXES



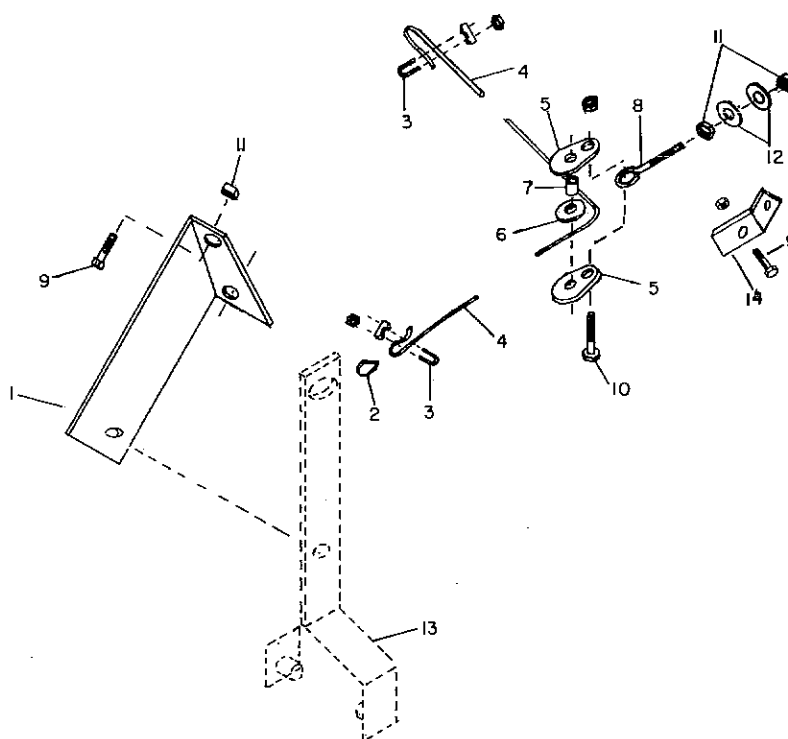
KEY	PART NUMBER	DESCRIPTION
1	233-04329-0	Door
2	426-04183-0	U-Joint
3	319-02070-0	Cotter Pin, 5/32 Dia. x 1
4	245-11782-0	Extension Auger, 2-Foot
5	323-02068-0	Clevis Pin, 5/16 Dia. x 2-3/8
6	323-01256-0	Expan Pin, 3/16 Dia. x 1
7	132-04330-0	Rod, Hinge
8	303-03108-0	Hex Cap Screw, 1/2 - 13 NC x 1
9	322-00536-0	Hex Nut, 1/2 - 13 NC
10	438-04331-0	Spring Extension
11	216-04333-0	Extension Tube, 2-Foot
12	121-04289-0	Plug for Extension
13	245-11783-0	Extension Auger, 1-Foot
14	216-04290-0	Extension Tube, 1-Foot
15	220-11784-0	Kit, 2-Foot Extension
16	220-11785-0	Kit, 1-Foot Extension
17	447-12119-0	Caution Decal

OPTIONAL BUNK GUARD FOR 800A MODELS ONLY



KEY	PART NUMBER	DESCRIPTION
1	204-11260-0	Rear Idler Hub Mount
2	104-11008-0	Rear Rail
3	204-11261-0	Front Idler Hub Mount
4	204-11257-0	Front Brace Vertical Bracket
5	204-11256-0	Front Cross Brace
6	104-11005-0	Side Rail
7	204-11262-0	Front Rail
8	303-01073-0	Hex Cap Screw, 1/2 - 13 NC x 1 1/4
9	340-00537-0	Lock Washer, 1/2
10	322-00536-0	Hex Nut, 1/2 - 13 NC
11	340-00520-0	Flat Washer, 1/2
12	212-11047-0	Complete Guard for One Side

AUTOMATIC CLUTCH KIT



KEY	PART NUMBER	DESCRIPTION
1	112-14442-0	Upper Pivot
2	305-13800-0	1/8 Cable Thimble
3	306-12926-0	1/8 Cable Clamp
4	142-14438-0	Clutch Cable
5	104-13696-0	Pulley Plate
6	127-13694-0	Pulley Wheel
7	136-13697-0	Pulley Spacer
8	403-13813-0	Eye Bolt
9	403-01226-0	Bolt 3/8 - 16 x 1 HHCS/65/PLTD
10	403-01137-0	Bolt 3/8 - 16 x 1 1/2 HHCS/65/PLTD
11	422-02306-0	Nut 3/8 - 16 Hex Lock/PLTD
12	403-02119-0	Washer 3/8 Std. Flat/PLTD
13	209-04192-0	Clutch Arm
14	104-16514-0	Bracket, Auto Clutch
15	220-14435-0	Automatic Clutch Kit

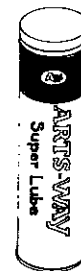
KEY	PART NUMBER	DESCRIPTION
1	442-04312-1	A.W. Green, Spray Can
2	442-04316-1	A.W. Yellow, Spray Can
3	442-02199-0	A.W. Green, Quart Can
4	442-02200-0	A.W. Yellow, Quart Can
5	442-02201-0	A.W. Green, Gallon Can
6	442-02202-0	A.W. Yellow, Gallon Can
7	442-00684-0	A.W. Super Lube Gun Grease
8	220-15138-0	Complete Set of Decals for Model Number 800A Silamix
9	220-15137-0	Complete Set of Decals for Model Number 850A Silamix



1-2

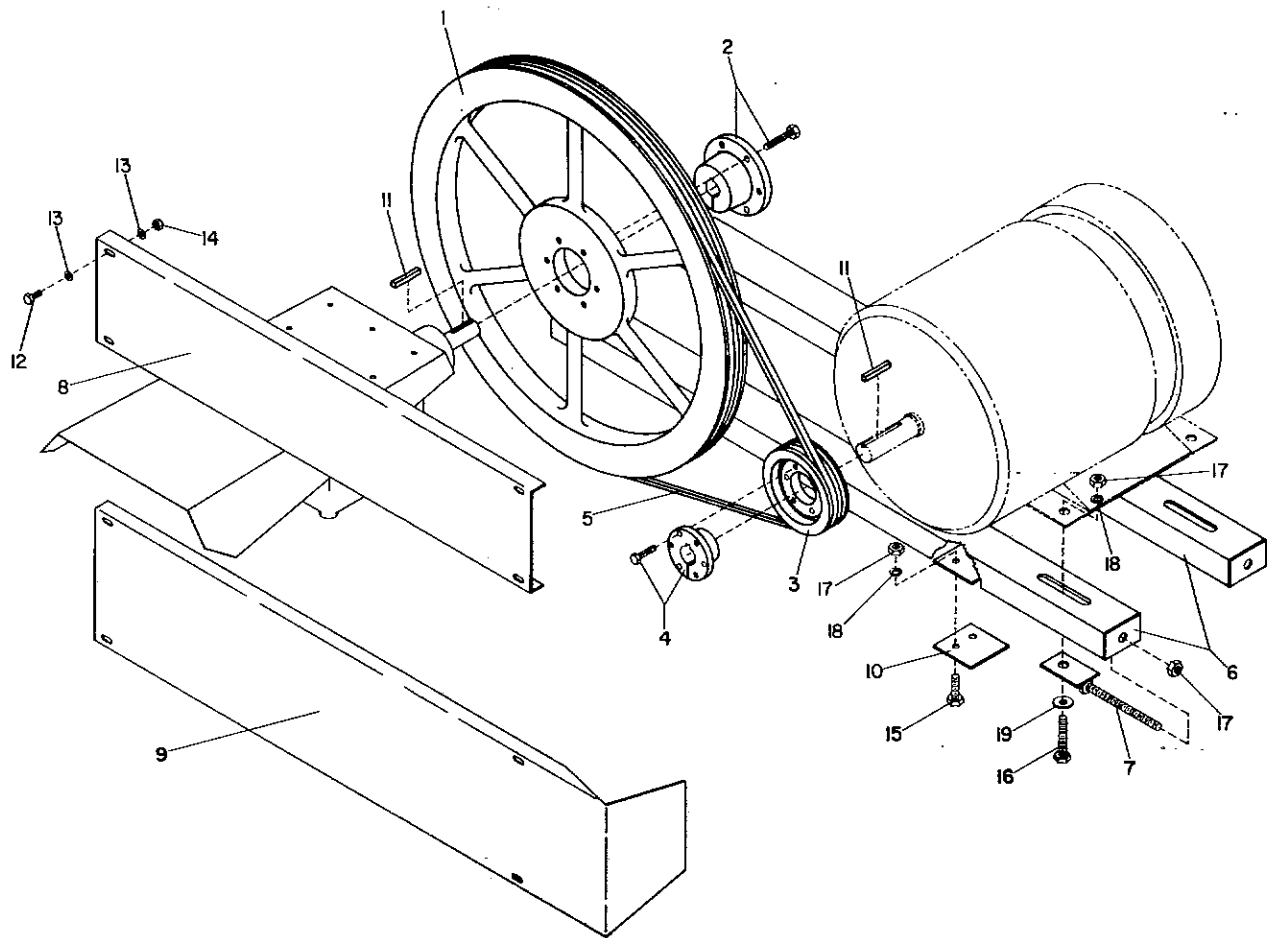


3-4-5-6



7

ELECTRIC MOTOR DRIVE KIT



KEY	PART NUMBER	DESCRIPTION
1	327-12081-0	Pulley, 25" O.D. (1)
2	305-16673-0	Bushing, S.F., 1 1/4" Bore, includes mtg. hdwr., (1)
3	327-12082-0	Pulley, 5" O.D. (1)
4	326-12083-0	Bushing, S.D.S., 1-3/8" Bore, includes mtg. hdwr., (1)
5	302-12084-0	V-Belts, 3V, matched set of three, (1)
6	204-16677-0	Bracket, Motor Mount (2)
7	204-16674-0	Bracket, Take-up (1)
8	133-16679-0	Shield, Top (1)
9	133-16678-0	Shield, Lower (1)
10	104-16242-0	Tightener Plate (4)
11	119-02040-0	Key, 5/16 Sq. x 2" (2)
12	303-00688-0	Bolt, 5/16 x 5/8 Hex. (8)
13	340-02292-0	Washer, 5/16 Flat (16)
14	322-02567-0	Nut, 5/16 Hex. Lock (8)
15	308-01477-0	Bolt, 1/2 x 1 1/2 Hex. (8)
16	303-00708-0	Bolt, 1/2 x 2 1/2 Hex. (4)
17	322-00536-0	Nut, 1/2 Hex. (14)
18	340-00537-0	Washer, 1/2 Lock (12)
19	340-00520-0	Washer, 1/2 Flat (4)
20	220-16680-0	Kit, Electric Drive Complete (motor not included)

NOTE: Electric Motor NOT Included In Kit Or For Service!

NUMERICAL PARTS LIST

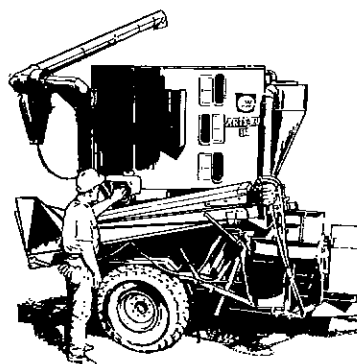
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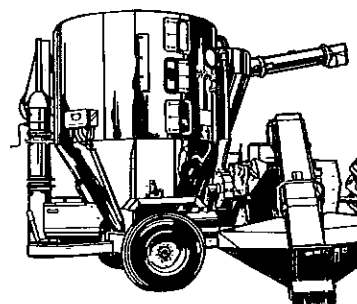
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See Your Dealer For These Quality

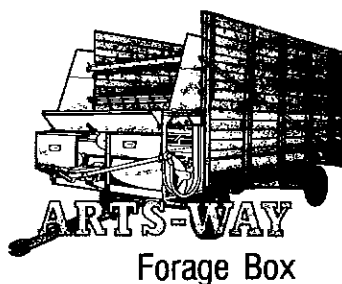
ARTS-WAY AGRI PRODUCTS



**150 Bu.
Grinder/Mixer**



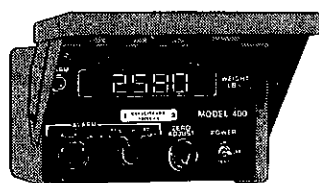
**105 Bu.
Grinder/Mixer**



Forage Box



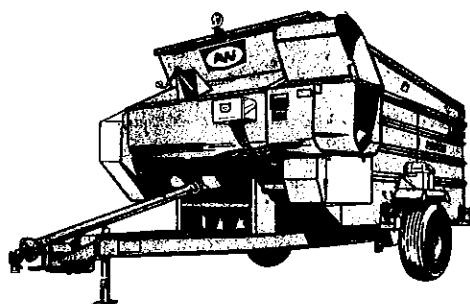
Running Gear



**Farm Scales
Analog & Digital**



Crop Blower



Silamix (Silage Mixer/Feeder)