

**OPERATOR AND
SERVICE MANUAL**

FOR

Silamix

MODEL

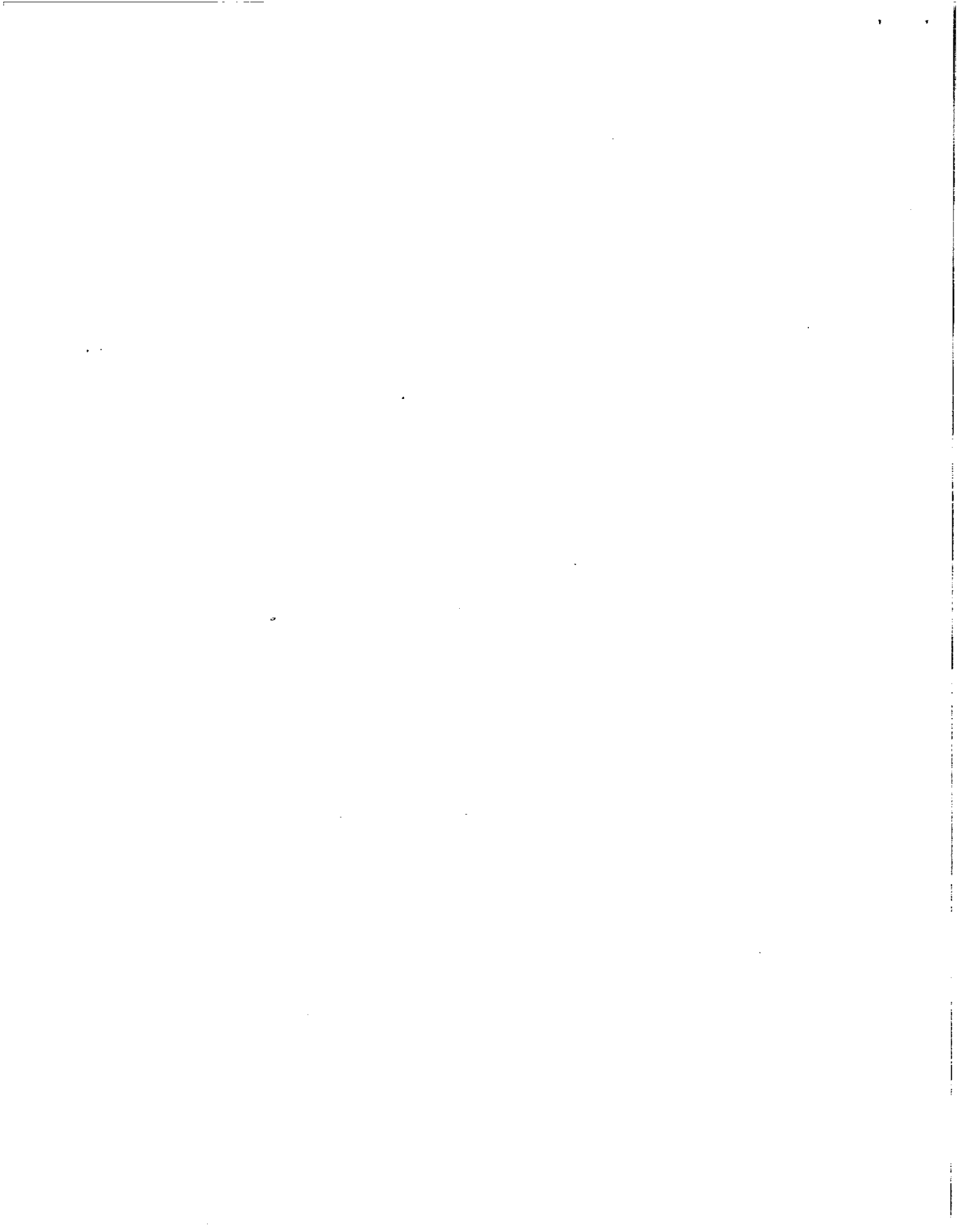
700-A & 750-A

SILAGE MIXER



Mfg. Company / Armstrong, Iowa / Phone (712) 864-3131

139410



INFORMATION FOR ORDERING SILAMIX PARTS

OWNERS NAME _____

ADDRESS _____

DEALERS NAME _____

ADDRESS _____

SILAMIX SERIAL NO. _____

DATE PURCHASED _____



**THIS IS YOUR
ARTS-WAY
WARRANTY CARD**



**PLEASE FILL OUT
AND MAIL
PROMPTLY!**

You must fill out this card with the information requested and
send to The Company in order to receive warranty.

OWNERS NAME _____

ADDRESS _____

DEALERS NAME _____

ADDRESS _____

SILAMIX
SERIAL NO. _____

DATE PURCHASED _____

TO THE OWNER

The Arts-Way Silamix 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 Silage Mixer. 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 the Arts-Way products.

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.

The Arts-Way Mfg. Co. reserves the right to make changes and improvements on its products at any time without incurring any obligation to make such changes and improvements on any previous products.

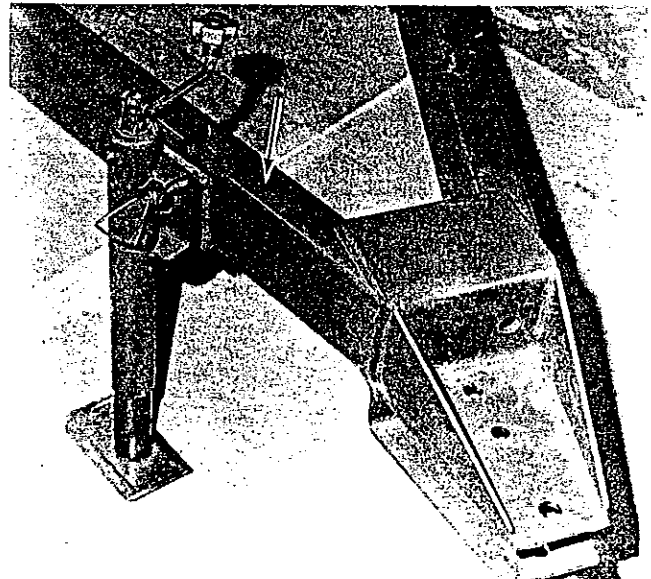
OPERATION BEFORE USING

Inspect machine and remove any foreign objects which may have fallen into box during transit. Remove drain cap which is fastened to door crank support and install on drain plug located in left rear corner of machine. Install power shaft by fastening to gear box with pin and key provided.

ATTENTION!



These symbols are used to call your attention to instructions concerning your personal safety. Be sure to observe and follow these instructions.



Location of identification number.

Record your Silamix identification number here _____

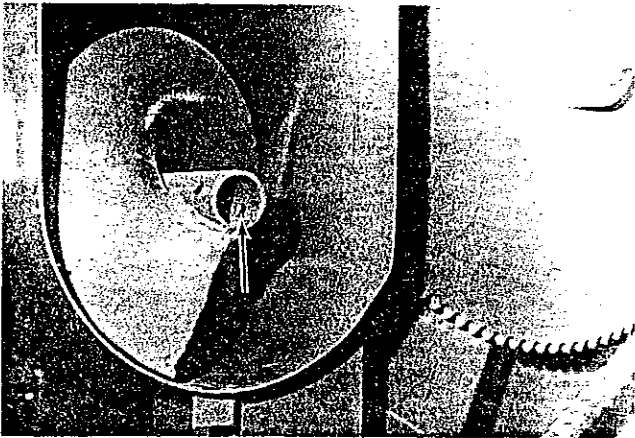
OPTIONAL EQUIPMENT

DISCHARGE AUGER EXTENSION

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



CAUTION: Before installing discharge extension auger, be sure to shut off tractor engine.



DISCHARGE AUGER EXTENSION

HYDRAULIC CYLINDER FOR DOOR



HYDRAULIC CYLINDER FOR DOOR

SHEAR PLATES

To protect against damage this machine is equipped with two shear plate assemblies. One shear bolt is located in the bell of P. T. O. shaft on the tractor end, the other is located on drive sprocket for discharge auger. (See Illustrations 1 and 2)

If these bolts should break, inspect machine thoroughly to determine cause. Under very tough loads, such as haylage, a bolt of the next grade of hardness may be used in the shear plate if original bolts will not carry the load.

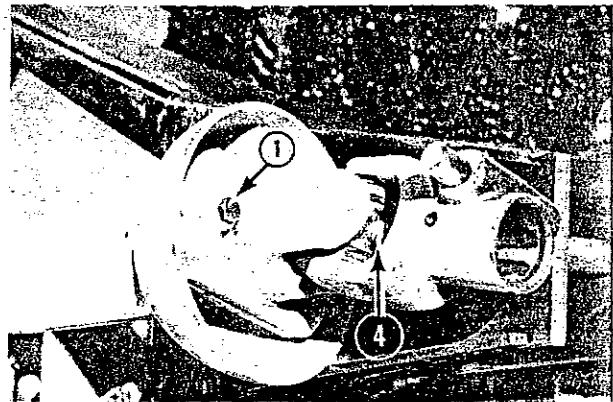


ILLUSTRATION 1

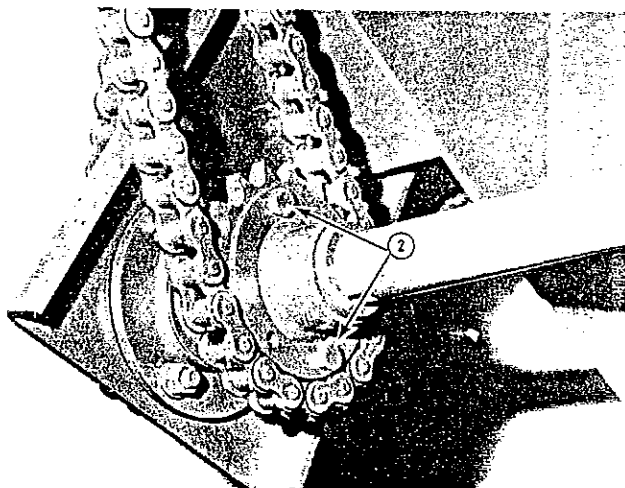


ILLUSTRATION 2

MIXING

For best results PTO speed should be 350 RPM to 500 RPM under load. It is recommended that the SILAMIX be run while loading although it is not necessary. If the machine is not run, several points must be observed.

1. Never fill machine in 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 and the rear of the machine may bend if a large slug is caught between the apron slats and the back.
2. Care must be taken not to over-fill the box as some loss will occur when the mixing is started. After a little experience it will be easy to judge the amount of feed necessary to fill the box.

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 machine 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 machine will remain empty. This is normal and is essential to the mixing action of the SILAMIX.



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 turning off the tractor ignition. Keep children away from machine in operation.

CAUTION: Care must be taken when filling machine, so you do not get rocks in the mixture. Even small stones, golf ball size may cause considerable amount of damage. They may lodge between side bars of chain, then sprocket may force them through chain separating chain sides, therefore breaking your apron chain.

UNLOADING

To unload the SILAMIX, lower discharge extension FIRST.



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

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



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 bearings and sprockets, especially when machine is new. Maintain proper tire pressure of 28 pounds. Keep properly lubricated for efficiency and long life of your Arts-Way SILAMIX.

GENERAL CARE AND LUBRICATION

These points must be lubricated weekly or after 10 hours of cumulative operation:

Illustration 3 — Auger Clutch

Illustration 4 — PTO Shaft

These points must be lubricated after 50 hours of cumulative operation:

Illustration 5 — Lower Idler
Bearing Hubs

Illustration 6 — Auger Drive Bearing

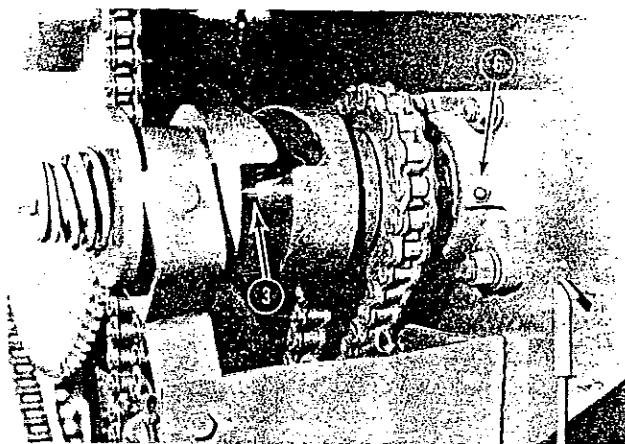


ILLUSTRATION 3



CAUTION: Disengage the power take-off before lubricating the chains.



CAUTION: Do not over grease sealed bearings. A small amount is all that is necessary. Too much grease will damage seals and cause premature bearing failure.

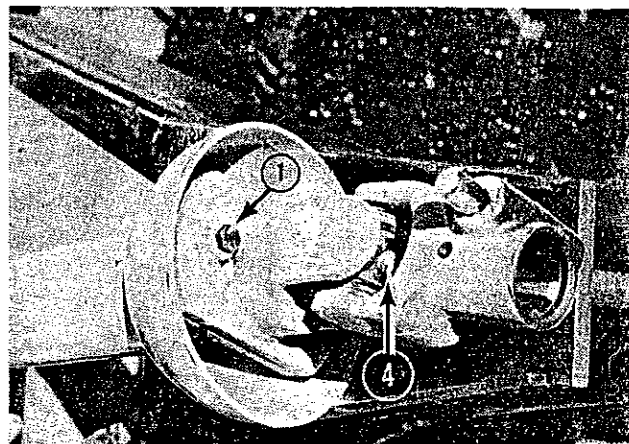


ILLUSTRATION 4



GENERAL CARE AND LUBRICATION

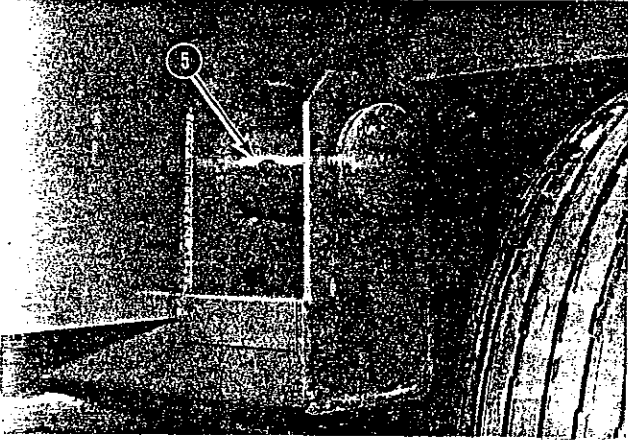


ILLUSTRATION 5

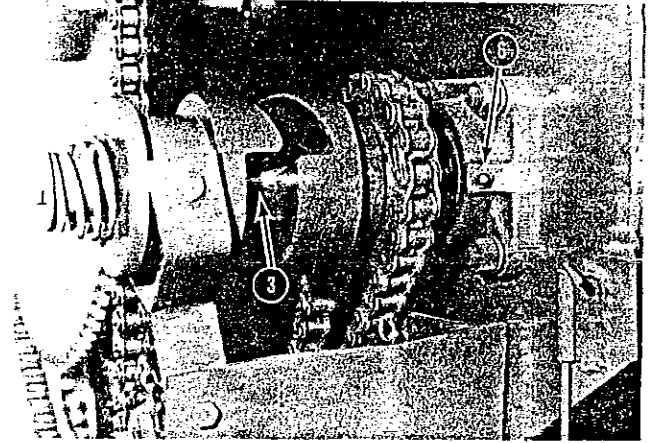


ILLUSTRATION 6



GENERAL CARE AND LUBRICATION

THESE POINTS SHOULD BE WATCHED
CAREFULLY AND LUBRICATED PERIODICALLY!

GEAR BOX

Check every three months and fill with SAE 90 Grade gear oil. Drain and refill with new oil every six months. Complete fill: 2 3/4 Lbs.

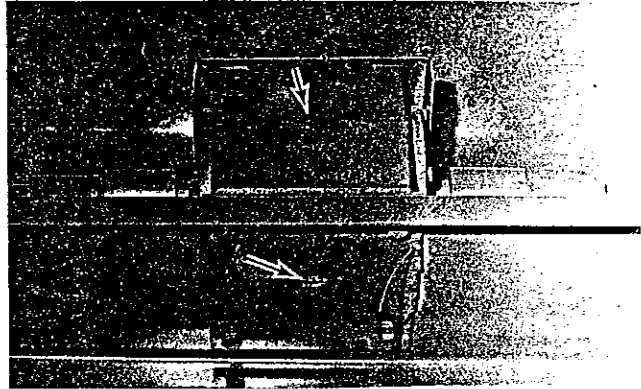


ILLUSTRATION 7

CHAINS

Lubricate chains with oil can and light oil. Oil upper side of lower strand where possible for best results.

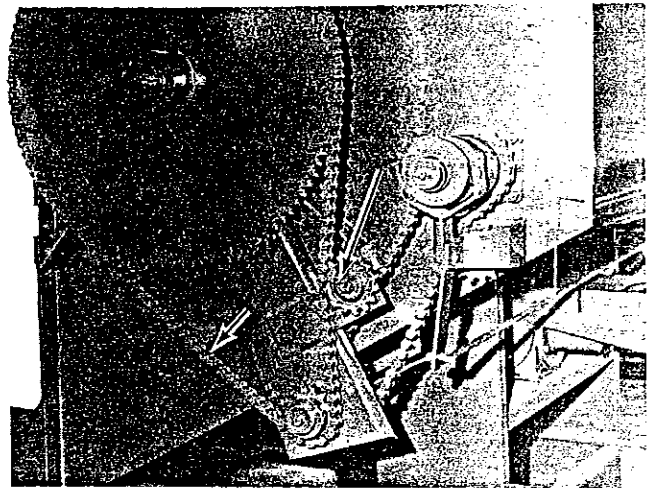


ILLUSTRATION 8

WHEELS

Wheels are factory packed. Check yearly and repack if necessary.

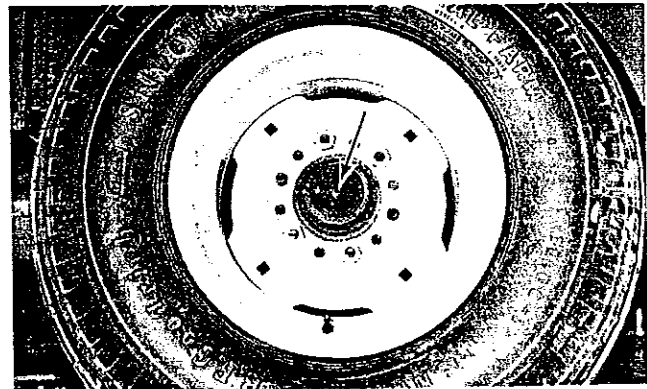


ILLUSTRATION 9

ADJUSTMENTS

CHAINS: Tension of the No. 60 drive chain on both sides and the No. 60 discharge auger chain should be watched closely, especially during the first several loads in a new machine. The main drive chains on each side will stretch some during operation and therefore must be kept tight at all times. If end of adjustment slot is reached, it will be necessary to remove a link from the chain. (See Illustration 10)

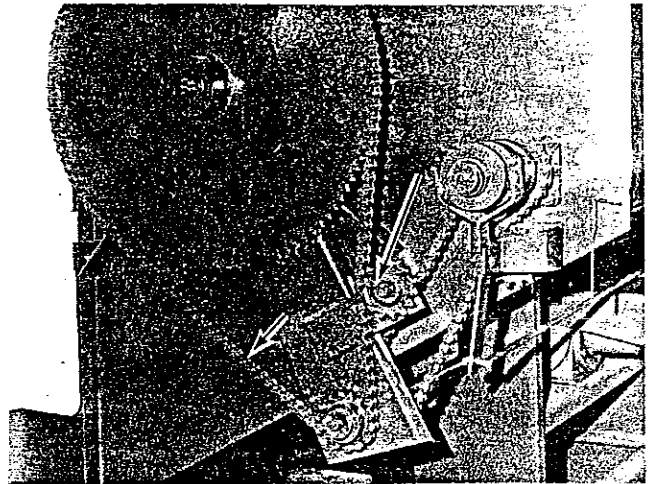


ILLUSTRATION 10

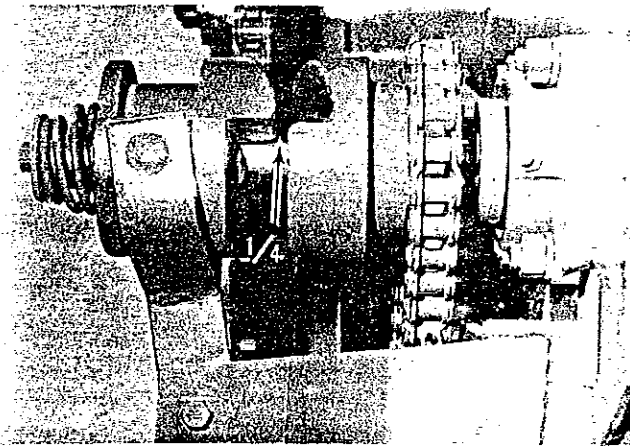


ILLUSTRATION 11

CLUTCH: A distance of 1/4" should be maintained between the clutch faces when disengaged. (See Illustration 11) Adjustment is made by the nut on the eye bolt. (See Illustration 12)

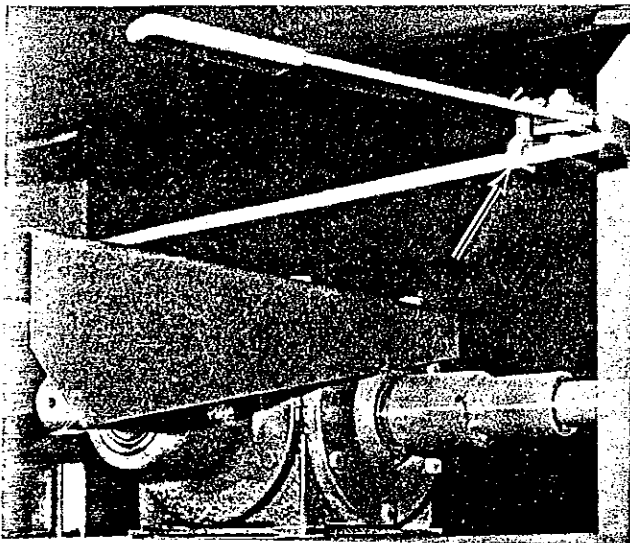


ILLUSTRATION 12

ADJUSTMENTS

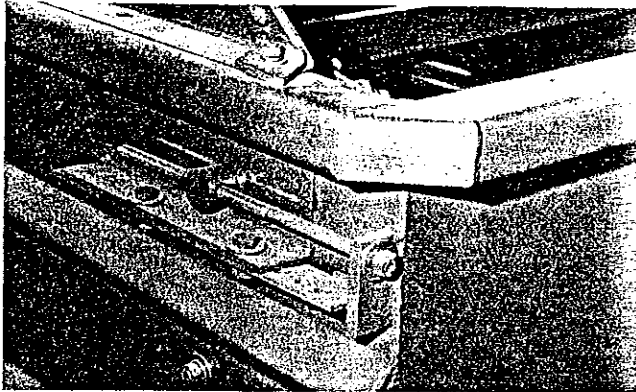
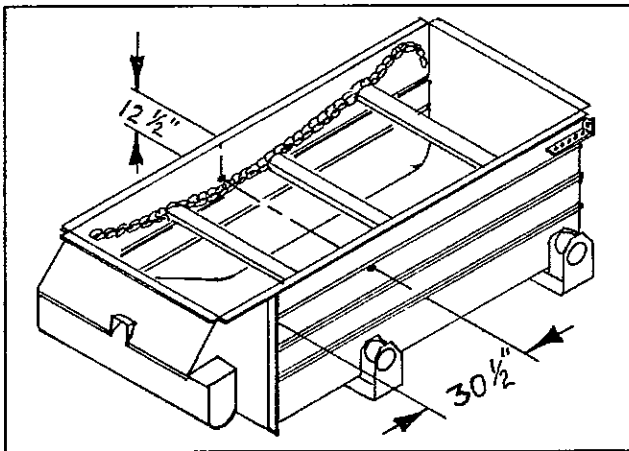


ILLUSTRATION 13

MIXING APRON CHAIN: This chain is fabricated at the Arts-Way Plant using the best materials available for roller spacers, side bars, and bolts. The roller spacers and chain tension should be checked frequently to avoid serious damage to the machine. The machine should never be operated with broken or missing rollers. When the mixing apron chain is properly adjusted it should sag 2" to 3" below a straight line from the top of the rear idler sprocket to the top of the front drive sprocket. This is easily checked by looking into the box from the rear of the machine.

When tightener reaches the most rear position, slide tightener forward as far as possible and remove two links from each side; then retighten as described above.

NOTE: If apron chain does get too loose, it may jump a tooth on one side and put it out of time, **DO NOT OPERATE IN THIS CONDITION.** To adjust, remove one side of No. 60 drive chain. Turn opposite side until apron slats are parallel or equal distance from the front or rear of the box. Then replace No. 60 drive chain.



IMPORTANT

Apron chain tension is very important on this unit, as the top of the chain must be kept even with the leveling holes to insure long life and no climbing of chain on sprockets.

Location of holes is shown in the illustration to the left. If your machine does not have these holes, drill a 3/16" hole on each side at locations shown.



CAUTION: Keep children off of machine.



CAUTION: Do not put hands in the auger hopper.

STORAGE

If machine is to be stored for any length of time, lubricate well, and coat inside and apron chain with oil to retard rusting. If possible, store inside or cover box. Remove drain plug and park so any water will run to the left rear corner.

BE CAREFUL

1. KEEP CHILDREN AWAY FROM MACHINE.
2. KEEP ALL SHIELDS IN PLACE.
3. STOP MACHINE TO SERVICE.
4. KEEP AWAY FROM MOVING PARTS.
5. KEEP OFF, WHILE MACHINE IS BEING OPERATED OR TRANSPORTED.