



AMS-300, AMS-500, AMS-750 and AMS-1000 SERIES 1 PAPER SHREDDERS

OWNER'S MANUAL

Thank you for purchasing an Ameri-Shred Shredder. This model is made of the finest materials available and is manufactured in the United States by skilled craftsmen. The shredder has been designed with the operator in mind for both ease of operation and maintenance. Ameri-Shred requests that each operator read and familiarize themselves with this manual before operating the machine.

The AMS-300, AMS-500, AMS-750 and AMS-1000 Series Paper Shredders are designed by Ameri-Shred Engineers to shred paper and paper products into strips or particles to ensure that the information they contain is rendered useless. Ameri-Shred believes in using the highest quality components in each of our industrial shredders.

Included in this manual are safety tips, operating instructions, preventative maintenance and lubrication schedules, and trouble shooting information. For information or questions that may not be found in this manual please contact our service department at **888-270-6879**.



NOTICE: The information contained within this manual is correct at time of printing, but due to the continuing development of products, changes in specifications are inevitable. Ameri-Shred reserves the right to implement such changes without prior notice.

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UNLOADING/UNPACKING

Your new Ameri-Shred shredder has been secured to a pallet for shipping. Please inspect equipment immediately for shipping damage.

- Using a lift truck with a minimum capacity of 1500 pounds, remove the machine from the carrier and transport to operation site. Remove pallet and discard responsibly. The feed table and output conveyor are located on top of the shredder pallet.
- All light duty machines are equipped with casters for ease of handling.
- Remove all guards (see figure 1, below) and inspect interior of machine for shipping damage. Check oil level in reducer. Add oil if necessary. See lubrication section on page 10.
- After inspection, reinstall all guards including feed table and discharge loop. A bag must be installed in the hoop before starting to shred.
- If an optional discharge conveyor was ordered with your machine, then you must install it before beginning to shred. Be sure belt is tracking properly after installation (see page 12 and diagram on page ??).

IMPORTANT: Check tracking after first 20 hours of run time. Belts do stretch after break in period.

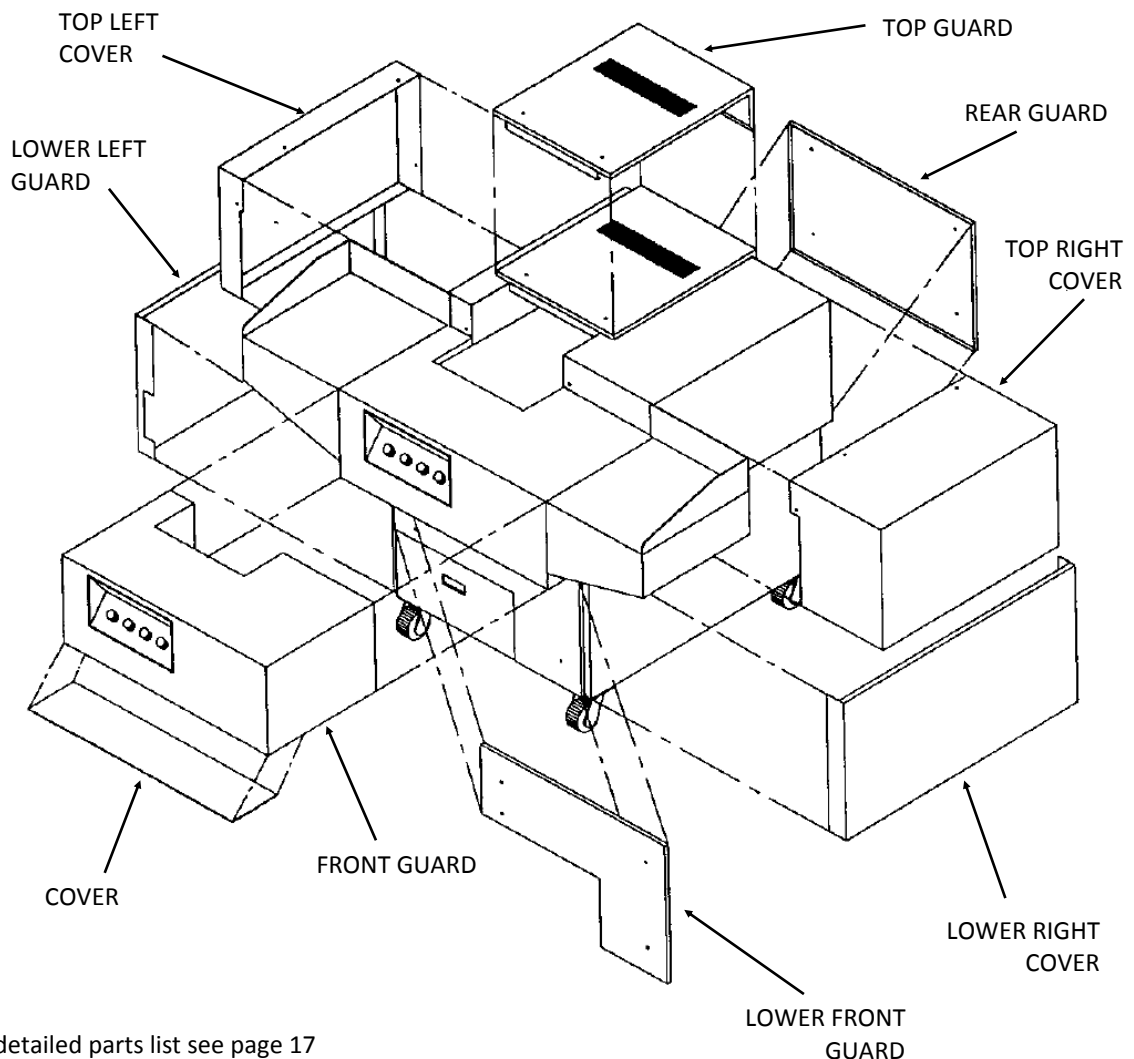


Figure 1
For more detailed parts list see page 17

ELECTRICAL INSTALLATION

All electrical installation and service must be accomplished by a qualified electrician. Follow all national and local electrical codes and ordinances.

“WARNING”

LOCK POWER IN OFF POSITION

- All internal wiring has been factory installed and tested prior to shipping. Electrical installation consists of providing adequate machine power only.
- Check building service to ensure correct voltage is available and those current requirements can be met (according to nameplate (serial number), see below).
- Install receptacle (provided) to properly protect building circuit. Select appropriate wire size and current protection to accommodate current requirements as shown on nameplate. Plug in power cable.
- Clear all personnel from machine area. Ensure machine is clean and no tools, rags, or debris have been left on conveyor belt or near cutters or drive mechanism.
- Turn building service drop power on. Check voltage at installed receptacle.
- Ensure area is clear. Turn key switch on. Jog reverse. Check for proper motor rotation. If rotation is wrong, unplug power cable. Check that power is off with voltage meter at panel. Remove any two power wires from the motor starter, reverse and reconnect.
- Clear area, turn on power and recheck rotation.
- Electrical installation is complete.
- Replace all guards.

NAMEPLATE:

Log your shredder specifics here

MODEL NO _____	_____ HP	
SERIAL NUMBER _____	_____ PHASE	
_____ VOLTS	_____ CYCLE A.C.	_____ AMPS

JOB NUMBER _____

SAFETY WARNINGS

Read and understand instruction manual and be aware of all warning stickers.

- Make sure that ALL guards and access panels are in place at all times, **EXCEPT** when the power is locked off for maintenance work or cleaning.
- **ALWAYS** know where emergency stop buttons are located.
- **ALWAYS** know, or have quick access to, emergency phone numbers.
- **ALWAYS** ensure that all maintenance and operating personnel read and understand this manual, including those personnel working second or third shift.
- **ALWAYS** have a standard break in time for a new operator. A minimum of two hours suggested.
- **ALWAYS** wear safety glasses when operating shredder.
- **ALWAYS** “lock out” power at the disconnect when shredder is not in use, when servicing shredder, or when performing routine shredder maintenance including cleaning.
- **NEVER** operate this or any other machine while under the influence of drugs, alcohol, or medications.
- **NEVER** wear loose fitting clothing, ties, or jewelry while in the vicinity of this shredder.
- **NEVER** allow long hair to be worn in the vicinity of the machine without use of a protective hair net.
- **NEVER** place any part of your body in or on any part of this machine while in operation.
- **NEVER** allow tools, rags, lunch pails, or debris to be placed on the input conveyor or on top of the machine.
- **NEVER** change machine direction without first allowing machine to come to a complete stop.
- **NEVER** allow other personnel within ten feet of this machine while in operation.
- **NEVER** remove guards, perform maintenance, or clear jam-up debris without first locking out power disconnect.
- **NEVER** allow horseplay around machine.
- **NEVER** remove paper from cutter heads while power is on.
- **NEVER** attempt to remove paper from input chute after paper has begun to move toward cutter head.
- **NEVER** hold forward button in the depressed position.

START UP PROCEDURE

PRESTART UP PROCEDURE

- Familiarize yourself with all controls and button locations.
- Ensure that all guards and covers are in place.
- Ensure the area is clean.
- Check input area for debris, discarded tools, etc.

START UP

Plug power cable into installed receptacle. Turn key switch on. Momentarily depress the forward pushbutton. Cutters will begin to rotate and the output conveyor will begin to run forward.

For machines equipped with optional automatic cutter lube system, depress Lube pushbutton momentarily and allow machine to run for approximately four minutes without feeding material to be shredded. This allows time for cutter lubrication to be accomplished without soaking the material to be shredded unnecessarily.

To stop machine at any time depress the red STOP pushbutton. For emergency situations the STOP pushbutton may be depressed at any time. For normal stop situations, wait for input chute to empty itself and the output conveyor to discharge all shredded material before depressing STOP button.

Begin feeding material to be shredded. It is recommended that during the familiarizing period the operator should proceed with small amounts of paper. After several hours experience the operator may wish to increase the amount of material being fed. The operator will soon be able to judge the efficiency of the operation and feed material accordingly. It is nearly inevitable that during this learning process the machine will jam. A jam condition will automatically turn off the machine just as if the operator had depressed the STOP button. This is normal.

CLEARING A JAM

Should a jam occur, the machine will turn itself off. Ensure that all personnel are clear of both the input chute and the cutter head.

Momentarily depress the yellow REVERSE pushbutton. This will cause the cutters to run backwards for as long as the Reverse pushbutton remains depressed.

Release the REVERSE pushbutton. The machine will come to a stop. After the machine has completely stopped, press the forward button and try to shred material.

If machine jams again, reverse shredder, **Lock Out Power**, and unlock the cutter head access door and manually remove offending material.

Restart machine in the forward direction to resume operation.

NEVER hold the forward button in the depressed position, as damage to the machine and the electrical system could occur.

NOTE:

This machine has been engineered to allow paper to be fed with paper clips, staples, fasteners, credit cards, aluminum offset plates and similar materials without doing harm to the machine.

SHUT DOWN PROCEDURE

- Allow input chute and output conveyor to clear all material before shut down.
- Depress red STOP pushbutton. Remove power cable from receptacle.
- Clean any remaining debris from the machine and from the immediate area.
- Remove the top guard and inspect cutters for damage.
- Clear any shredded paper from the cutter area. Pull tray from the lower front of the machine and empty.

TROUBLE SHOOTING

“WARNING”

LOCK OUT POWER before performing any cleaning, oiling, maintenance, or trouble shooting.

PROBLEM	POSSIBLE CAUSE	REMEDY
Machine will not turn off using STOP buttons.	Defective STOP button.	Check continuity (N.C.) If bad, replace.
	Contacts burned together in reversing contactor.	Check each leg of forward side of contactor for continuity. There should be no continuity. If there is, consult factory for replacement part.
Machine will not run in forward or reverse.	If power light is illuminated, proceed to possible cause seven.	
	1) No power.	Check power supply.
	2) Key switch off.	Turn on.
	3) Fuse blown in disconnect.	Remove each fuse and check for
	4) Overload tripped in panel.	Reset.
	5) Control transformer fuse blown.	Remove fuse and check for continuity. If
	6) Stop button stuck “in”.	Check buttons.
	7) Loose wire in panel.	Check terminal strip for disconnected or loose wires. Reconnect and tighten loose wires to proper location on strip.
Motor hums or buzzes, but will not turn in either forward or reverse.	8) Defective contact block on stop button.	Check block for continuity. If bad, replace.
	One leg of the 3 phase power is dead (single phasing).	Remove each fuse. Check for continuity in the power supply and disconnect.
	Contacts burned in contactor and not making a connection on one leg.	Consult factory for replacement contactor.
Overload tripping.	Defective motor.	Consult factory for replacement motor.
	Low voltage.	Check voltage.
	Current relay set too high.	Consult factory.
	Motor overheating.	Check motor cooling fan for objects
	Cutter head is dirty or not lubricated	Clean and lube.
Machine will not run in forward but will run in reverse.	Defective motor.	Conduct amperage test. Consult factory
	Defective forward button.	Check contact block for continuity. If bad,
	Disconnected wire on forward button.	Check and reconnect.
	Disconnected wire on current relay.	Check and reconnect.
Machine will not run in reverse but will run in forward.	Current relay stuck open.	Clean relay. Free up center spool. Check continuity. If bad, consult factory for replacement relay.
	Defective reverse button.	Check for continuity. If bad, replace.
	Disconnected wire on reverse button.	Check and reconnect.
Shredding capacity is low.	Defective coil in reverse side of contactor.	Consult factory for replacement coil.
	Cutter head not lubricated.	Clean and oil cutter head.
	Low voltage.	Check voltage at power supply.
	Current relay set too low.	Consult factory before making any

MAINTENANCE

CLEANING

ALWAYS lock off power before cleaning, lubricating, maintaining, removal of any guard, and after shredding operation is complete.

Daily Cleaning (After each 8 hours of operation)

- Remove the top guard
- Remove debris and any magnets that have built up on cutters and combers (compressed air (maximum 40 psi) or vacuum may be used).
- Visually inspect cutters for damage.
- Remove side guards and visually inspect drive components for leaks or damage.
- Remove any paper build up from the crusher area and belt pulley area.
- Replace all guards.
- Empty tray (lower front of cabinet).

Weekly Cleaning (After each 40 hours of operation)

- Repeat all daily cleaning steps.
- Remove side guards and end guards.
- Remove any paper buildup from base.
- Wipe entire machine clean being careful to observe any evidence of oil leaks. Should leakage be observed, request the attention of the appropriate maintenance personnel.
- Check for loose hardware on the reducer collars, the crusher paddles, etc.
- Remove all tools, rags, solvents from machine.
- Replace all guards.

MAINTENANCE

LUBRICATION

ALWAYS lock off power before cleaning, lubricating, maintaining, removal of any guard, and after shredding operation is complete.

Daily lubrication (After 8 hours of operation)

Machines equipped with Auto Cutter Lube

- Depress the cutter lube button momentarily while the machine is running and allow the machine to run empty for approximately four minutes.
- Check the oil level in auto cutter lube reservoir (level can be seen through a slot in the guard just below the fill tube).

Machines not equipped with Auto Cutter Lube

- Remove top guards
- Apply light machine oil to the cutters
- Replace all guards

Weekly lubrication (After each 40 hours of operation)

- Repeat steps from daily lubrication.
- Remove guards.
- Apply oil to drive chains (see figure 3, right). Use chain and cable lubricant.
- Replace all guards.

Machines equipped with Auto Cutter Lube

- Fill auto cutter lube reservoir with SAE 20W Non-Detergent oil

Monthly Lubrication (after each (160) hours of use)

- Repeat all weekly lubrication steps
- Remove guards
- Check reducer oil level by loosening the top jam nut and adjusting nut on torque rod enough to pivot the reducer to the horizontal position. Remove the level plug. Oil will run out if filled to proper level. The proper level is to the bottom of the plug, do NOT overfill.
- Lubricate the spur gears
- Apply lubricate directly to the teeth of both spur gears liberally using heavy duty open gear lube
- Replace all guards

Annual Lubrication (after each (2080) hours of use)

- Repeat all monthly lubrication steps
- Drain the oil from the reducer by removing plug "D"
- Clean the magnetic drain plug
- If excessive metal filings are detected on the magnetic drain plug, flush the reducer with cleaning solvent (kerosene)
- Replace the drain plug and refill to the proper level using a high grade petroleum base, rust and oxidation inhibited gear oil SAE 40W (Amoco Industrial Oil #150 or equivalent)

CAUTION:

Too much oil will cause over heating, and too little oil will result in gear failure. Check oil level monthly. Also, under extreme operating conditions, such as rapid rise or fall of temperatures, dust, dirt, chemical particles, chemical fumes, or oil temperatures above 200° F, the oil should be changed every one to three months depending on the severity of conditions.

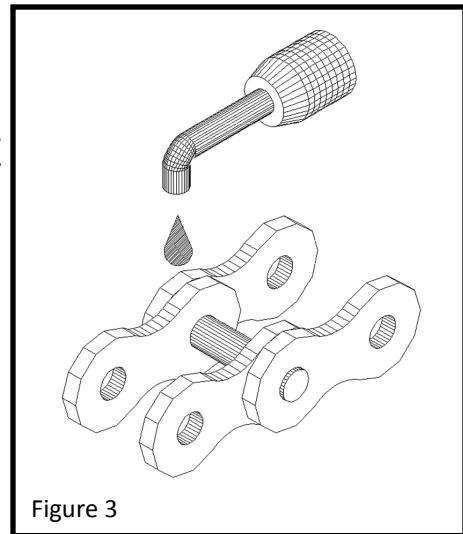


Figure 3

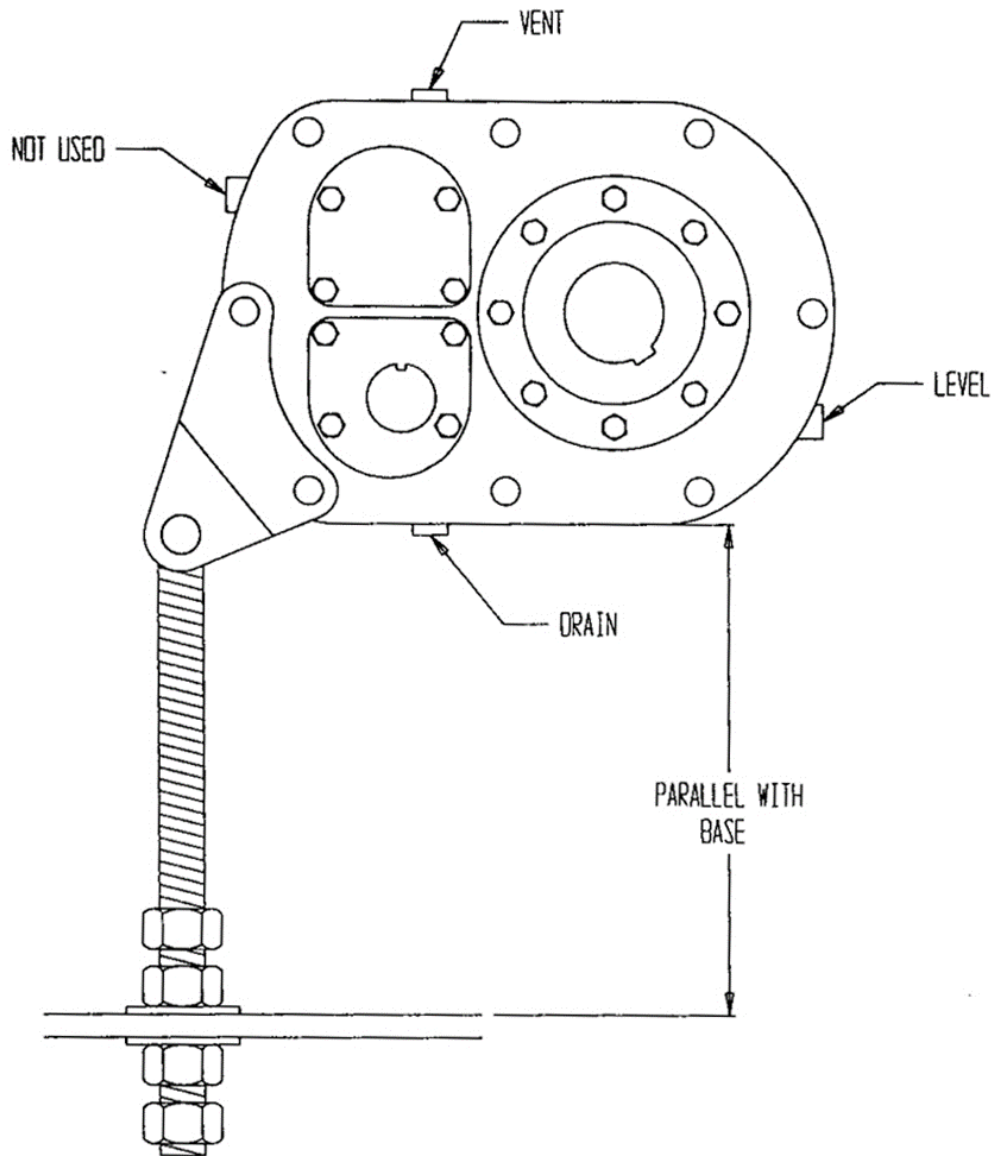
MAINTENANCE

LUBRICATION (Continued)

LUBE SCHEDULE

ITEM	LUBE FREQUENCY	TYPE LUBE
Spur gears	Check level weekly	85W-140 gear lube
Reducer	Check weekly	See attached reducer manual
	Drain and refill yearly (2500 hours)	
Cutters	Every 4 hours	10W, 20W, 30W motor oil
Chains	Monthly	Chain and cable lube
Main bearings	Every 8 hours	Multipurpose grease 2 oz. / bearing
Output conveyor pulley bearings	Monthly	Multipurpose grease
Wear plates	Every 8 hours	Multipurpose grease

REDUCER LUBRICATION



CONVEYOR BELT ADJUSTMENT

ALIGNMENT AND TENSIONING

- Read all safety warnings (see page 6) before proceeding.
- Lock power off.
- Remove both end guards and side guards from input conveyor (drawing).
- Replace end guard. All rollers and pulleys must be set square with the frame before making any belt adjustments. All guards should be in place (except conveyor side guards) before proceeding
- Mark the initial position. Make all adjustments in small increments.
 - By design, the conveyor belt should have 1/16" or less clearance to side frames. This assists in preventing debris from getting under the belt but some side rubbing may be expected. This is normal.
- Loosen jam nuts, each side of machine (see figure 4, below).
- Turn jam nuts 1/2 turn each side, repeating until belt is at proper tension.
- Ensure all personnel are clear and that no tools are on machine or input chute.
- Turn power on.
- Run machine in FORWARD.
- Stop machine and turn power off.
- Adjust alignment by tightening take-up bolt on side of conveyor where belt is rubbing side frame. Tighten only 1/4 turn at a time.
- Tighten jam nuts.
- Replace all guards.
- Turn power on.
- Run machine forward for five minutes. If further alignment is required, repeat the above steps.

NOTE:

Belt may run slightly off center. When machine is run in reverse, the belt may run slightly off center to the opposite side. This is normal. The belt may stretch during the first few days of operation. This will affect alignment since the belt alignment relies in part on proper tensioning for effective tracking.

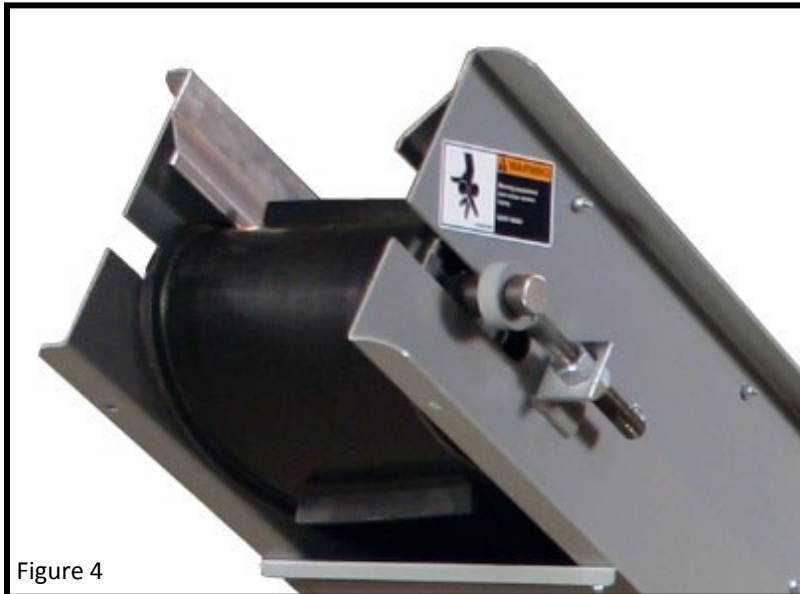


Figure 4

DRIVE BELT ADJUSTMENT

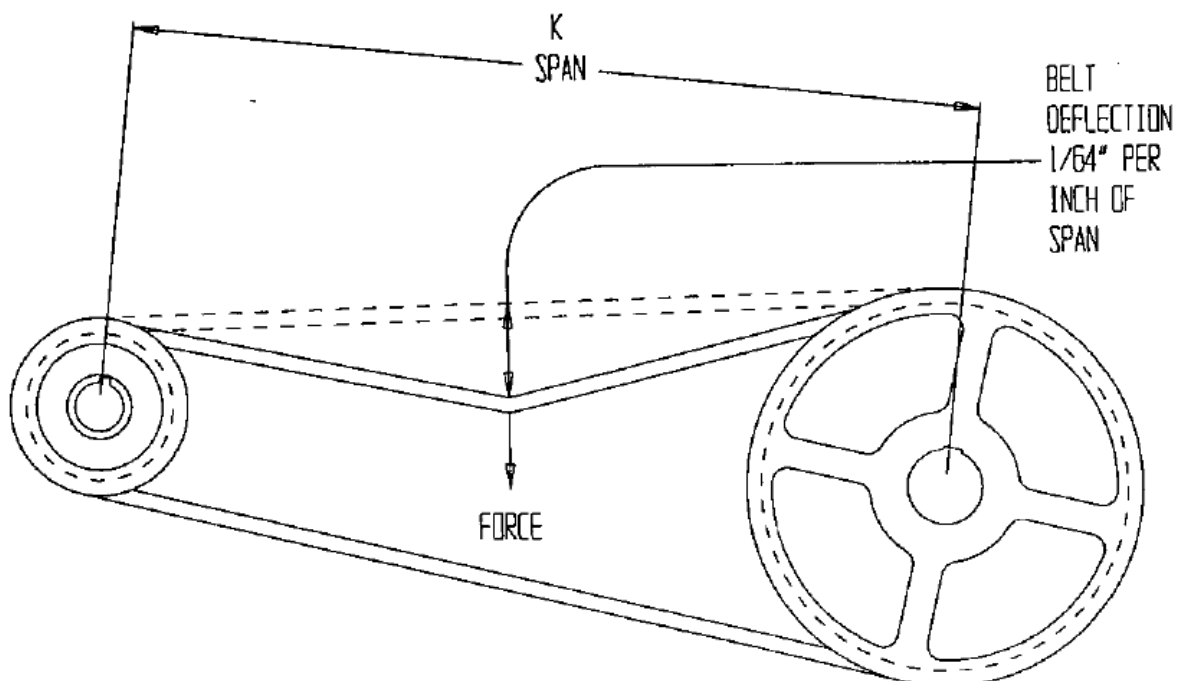
- Lock power off
- Remove guard, drive side
- Check sheave alignment by placing a straight edge or a stretched string across the sheave faces so that it touches all four points of contact. Mis-alignment of more than one half of one degree ($1/8''$ over 12'') may adversely affect the belt life, cause belt rollover, and/or cause internal belt damage.
- Ideal tension is the lowest tension at which the belt will no slip under peak load conditions
- Check tension frequently during the first 48 hours of run-in operation
- Over tensioning will shorten the belt and bearing life
- Keep belts free of foreign material which may cause slippage
- Make V-Drive inspection on a periodic basis. Tension only when slipping. Never apply belt dressing as this will damage the belt and cause early failure.
- Adjust tensioning by measuring the distance between sheaves center to center. At the midpoint between cutters, apply a force (perpendicular to the span) large enough to deflect the belt $1/64''$ for each inch span length. For example, the deflection of a 100 inch span would be $100/64$ or $1-9/16''$. Compare this measured force to the accompanying chart. If the force is between "normal" and 1-1/2 times "normal", the drive tension would be satisfactory. A force below the normal indicates an under-tensioned drive. If the force is more than 1-1/2 times normal, the drive is tighter than it needs to be.

MODEL NO.	DEFLECTION	NORMAL	NEW BELT
AMS-300	$3/8''$	10.5 lbs.	15.8 lbs.
AMS-500	$3/8''$	15.9 lbs.	21.9 lbs.
AMS-750	$3/8''$	15.9 lbs.	21.9 lbs.
AMS-1000	$3/8''$	17.6 lbs.	26.4 lbs.

- To adjust belts, loosen the jam nuts (both top and bottom) and the lower lock nut on the reducer torque arm
- Turn the upper lock nut until proper tension is achieved
- Re-Tighten lower lock nut and both jam nuts
- Replace all guards

NOTE:

Purchase of a Dodge V-Belt tester, Model # 109082 is recommended

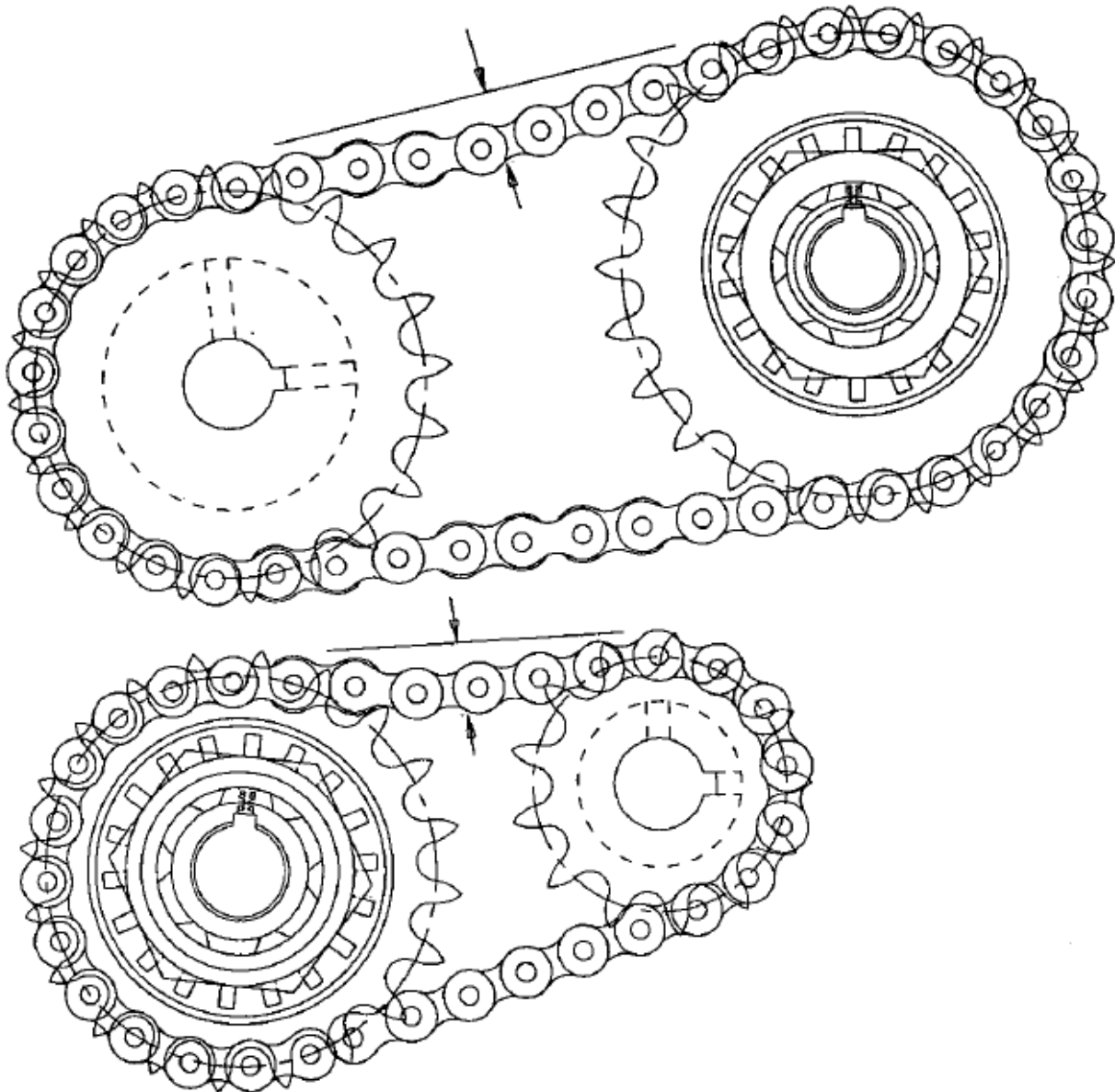


CHAIN SAG

Chain drives have fixed centers and are not equipped with either take-ups or adjusting features. Chain sag is permissible within the limits shown on (see drawing below).

Chain sag distances may be measured by placing a straight edge across the two sprockets being checked.

- Lock power off
- Remove the access guard (see drawing below)
- Check chain sag according to figure (see drawing below)
- Replace chain if stretched beyond the limits shown in (see drawing below)
- Replace all guards



TORQUE LIMITER

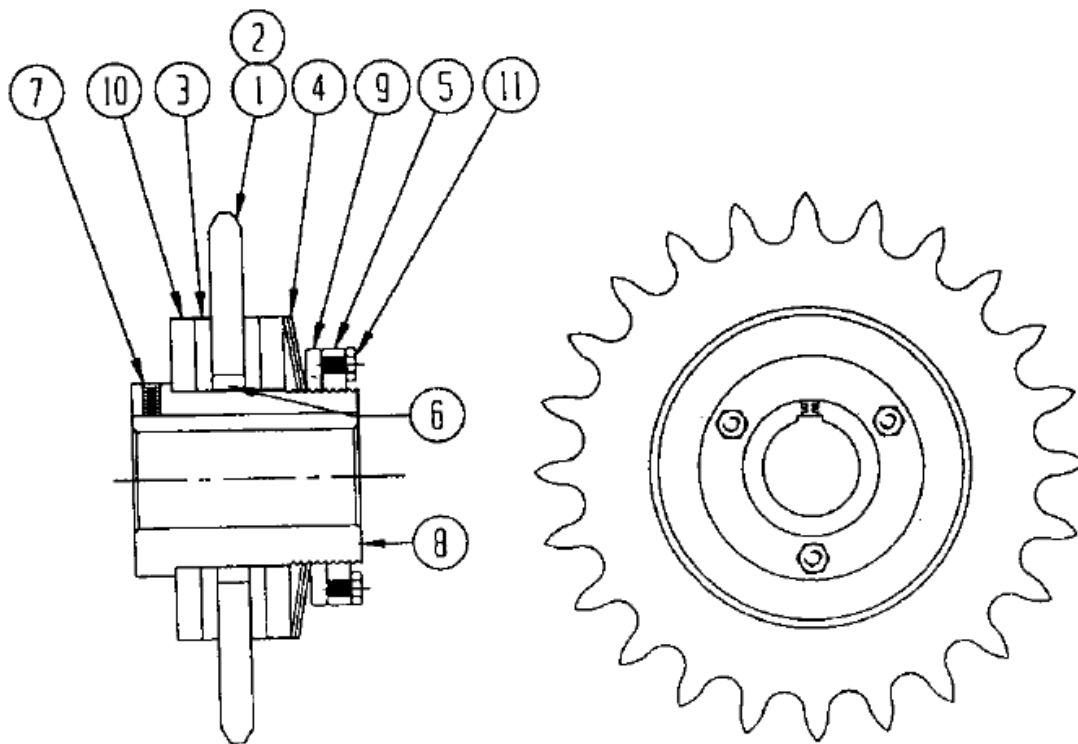
Torque limiters are used to drive the crusher mechanism and the input belt conveyor and act as a safety device to protect against inadvertent overloads. They are factory preset and should not require field adjustments.

To ensure proper operation, the friction discs must be kept clean and free of oil and moisture.

Before presuming the torque limiters require adjustment, check for paper buildup and other conditions, such as bearing failures and proper belt adjustment.

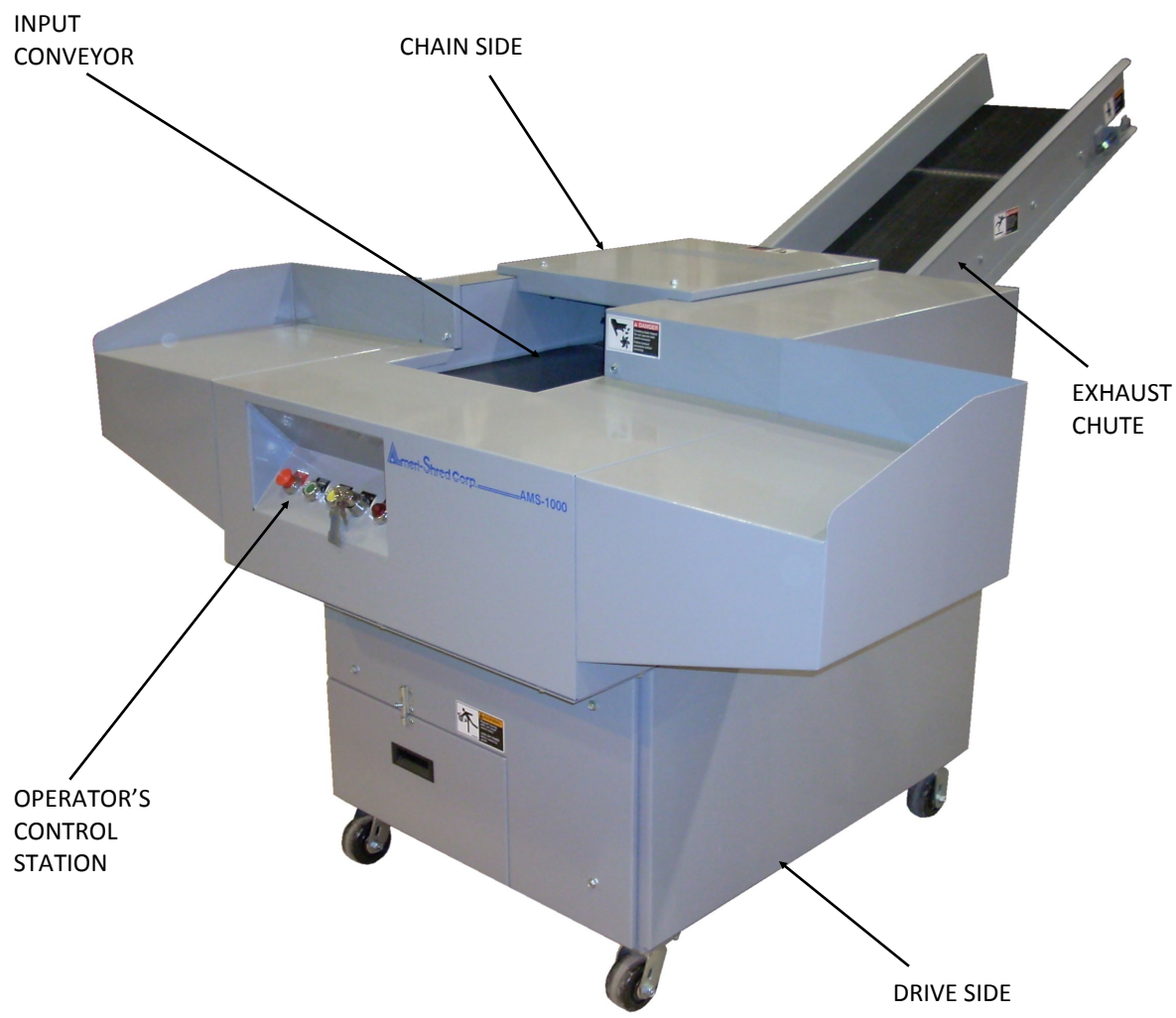
Should adjustments be required, the following procedure is recommended.

- Tighten hex nut to a "finger tight" position (see drawing below)
- An additional 1/2 turn will closely approximate the factory setting
- An additional 1-2/3 turns will result in the maximum torque setting
- Should sprocket replacement be necessary, sprocket should be ground flat and parallel with a surface finish of 65 to 125 micro-inches
- With new sprocket installed, provide a five minute run-in period at minimum torque before final adjustment

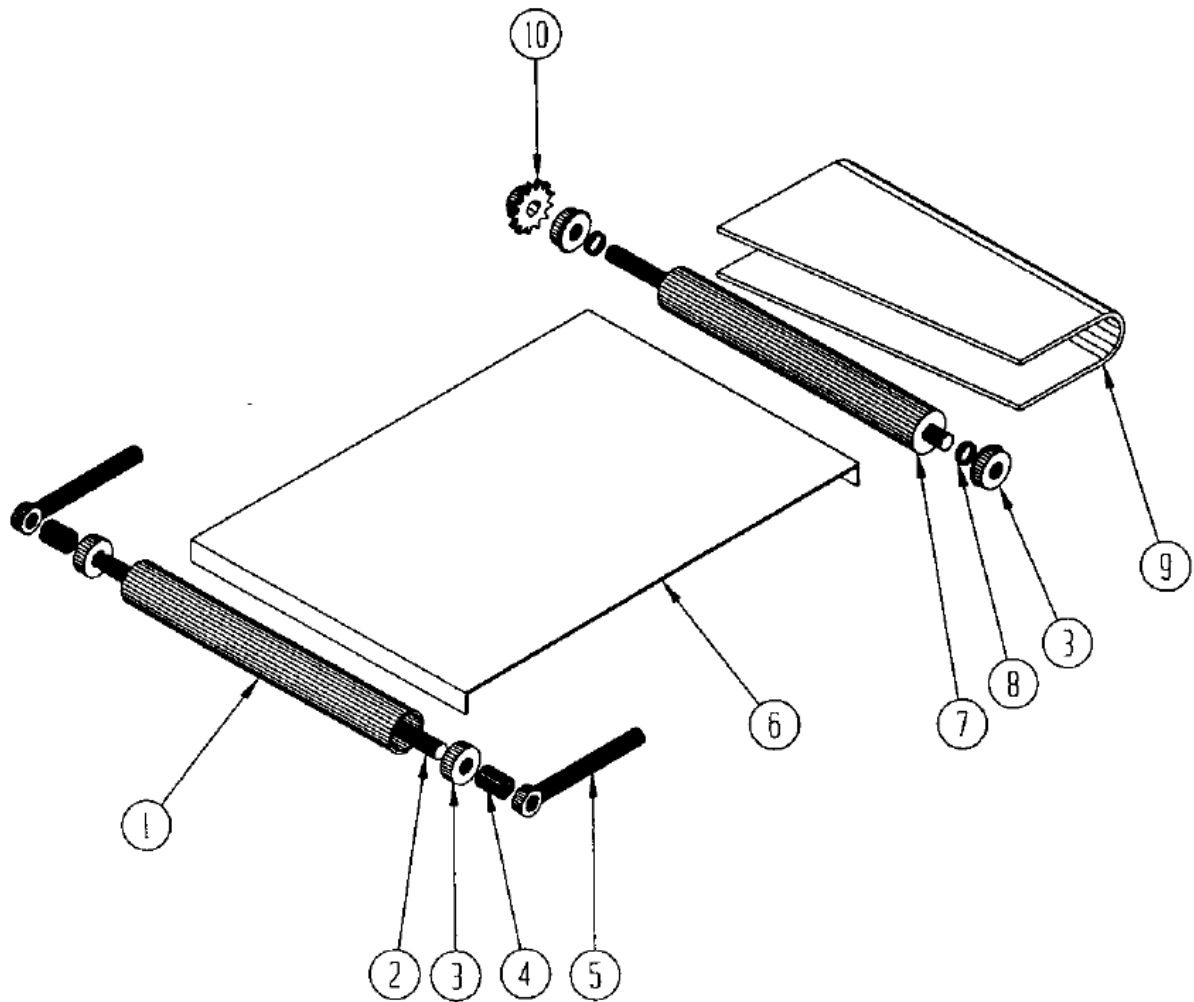


ITEM	QTY	PART #	DESCRIPTION
1	1	103469	SPROCKET - INPUT CONVEYOR
2	1	103468	SPROCKET LOWER CUTTER SHAFT
3	2	103515	FIBER DISC
4	1	103517	SPRING WASHER
5	1	GL 303642	ADJUSTING NUT
6	1	103514	BUSHING
7	1	101307	SET SCREW
8	1	325112	STEEL HUB
9	1	100812	LOCK WASHER
10	2	303445	PRESSURE PLATE
11	-	103508	COMPLETE TORQUE LIMITER - LESS SPROCKET

SHREDDER OPERATION

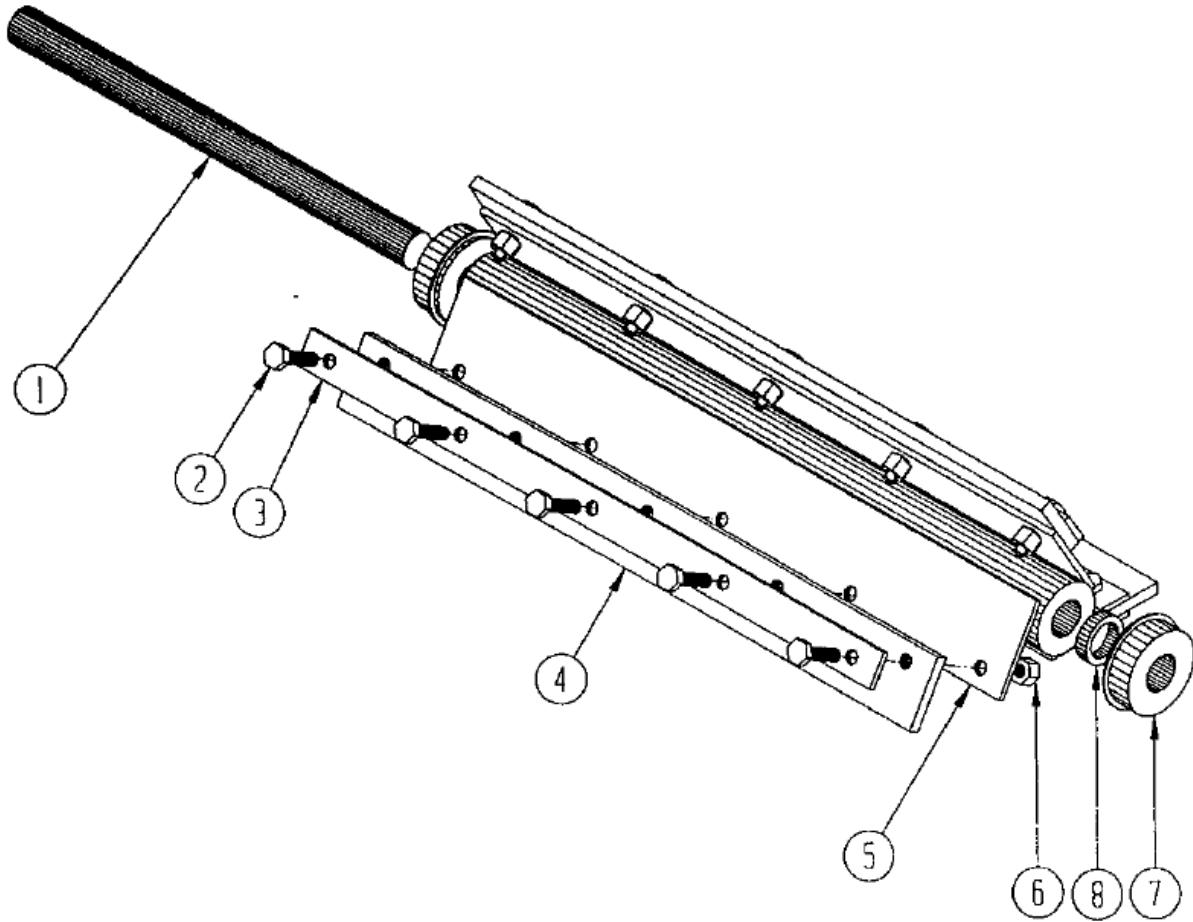


INPUT CONVEYOR



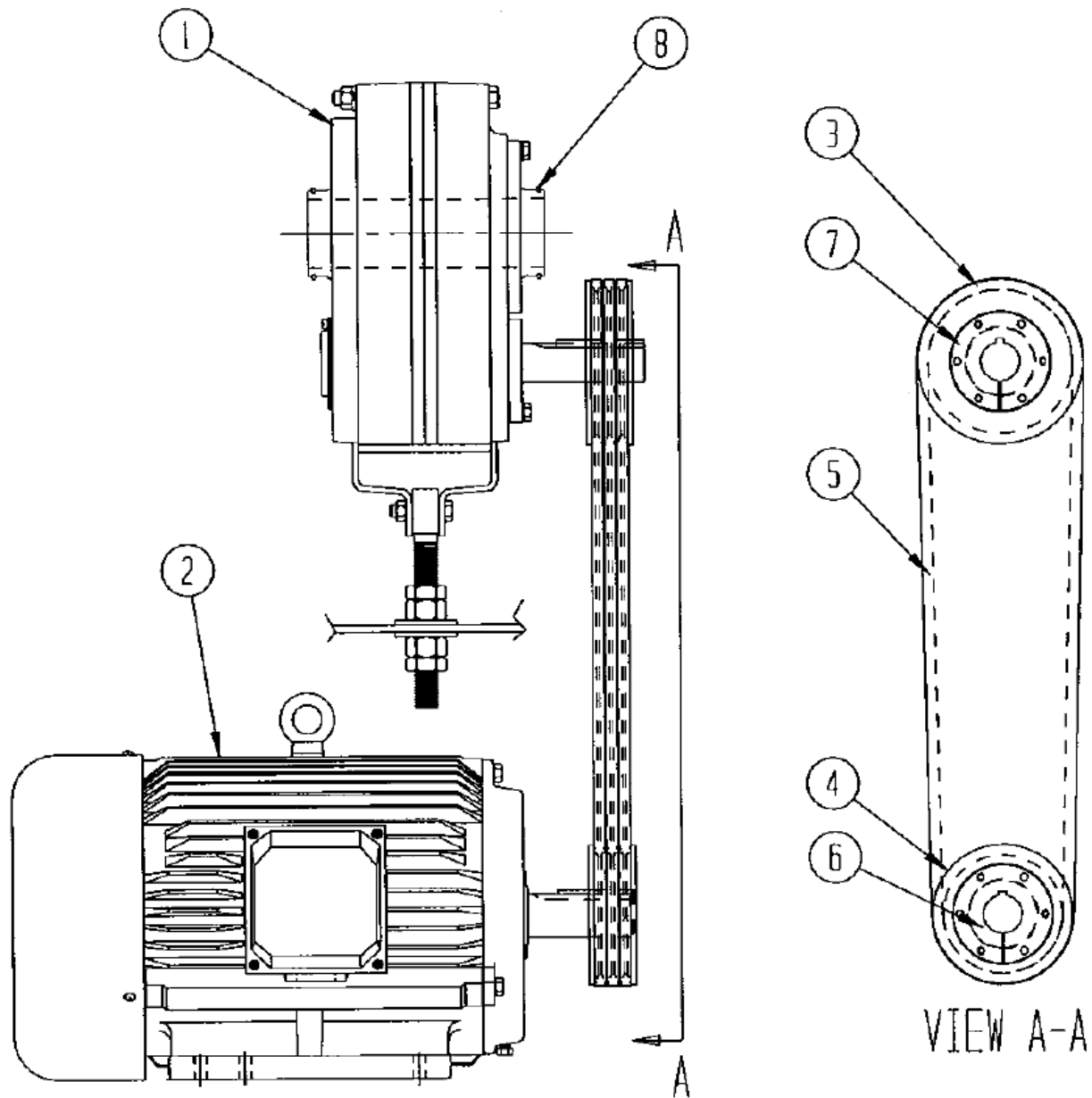
ITEM	QTY	PART #	DESCRIPTION
1	1	10055	TAIL PULLEY
2	1	15901	TAKE-UP SHAFT
3	4	102002	BEARING
4	2	15602	SPACER
5	2	10056	TAKE-UP
6	1	10570	TRAY (FRAME)
7	1	10054	HEAD PULLEY
8	2	15601	SPACER
9	1	109041	BELT
10	1	103060	SPROCKET

CRUSHER ASSEMBLY



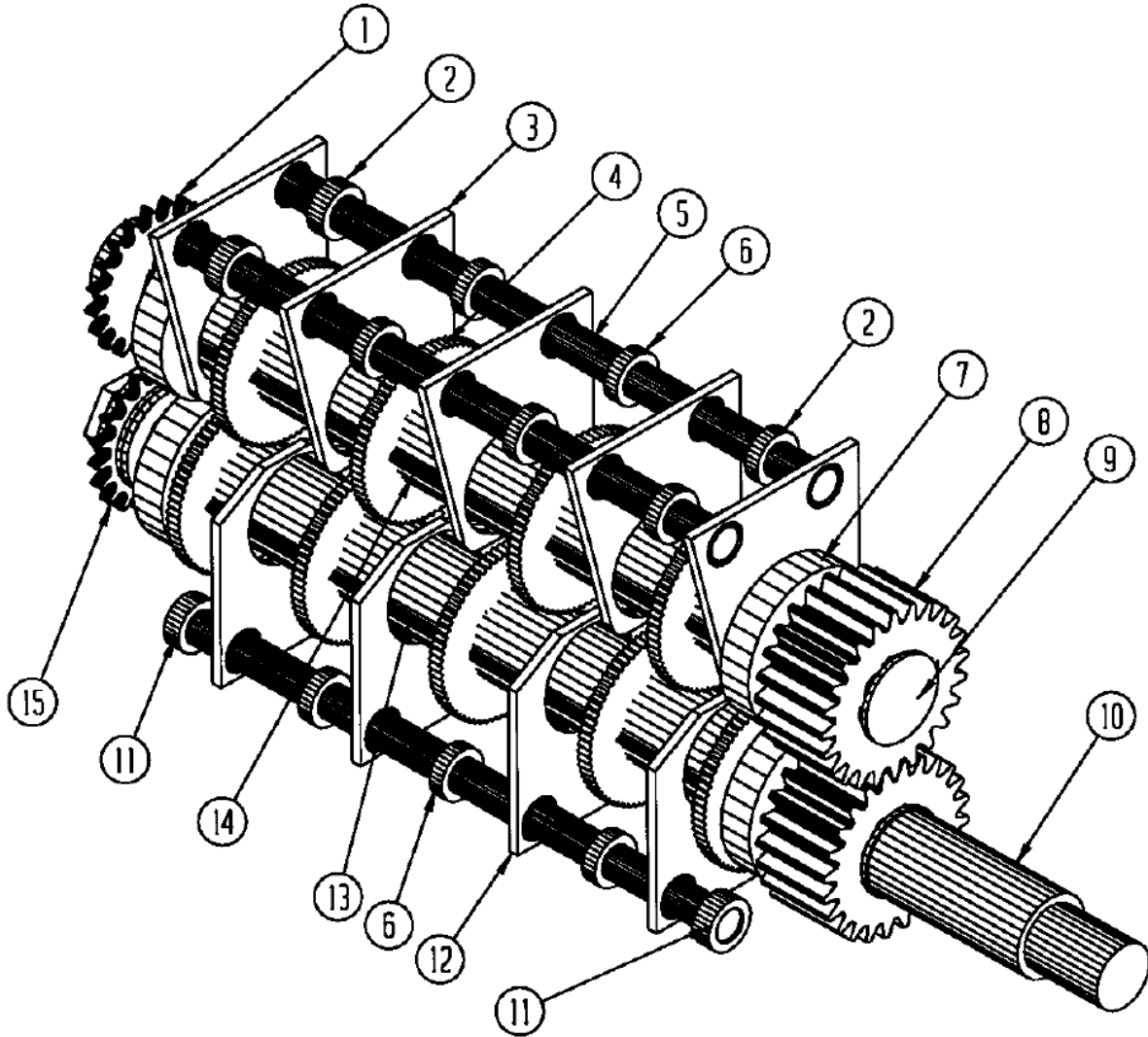
ITEM	QTY	PART #	DESCRIPTION
1	1	15001	CRUSHER SHAFT
2	15	101014	HHCS - 1/4-20 X 1" L GRADE 5
3	3	10039	RETAINER
4	3	10038	PADDLE
5	1	15003	PADDLE WELDMENT
6	15	101225	NUT - NYLOC - HEX 1/4-20
7	2	102002	BEARING
8	2	15601	SPACER

DRIVE ASSEMBLY



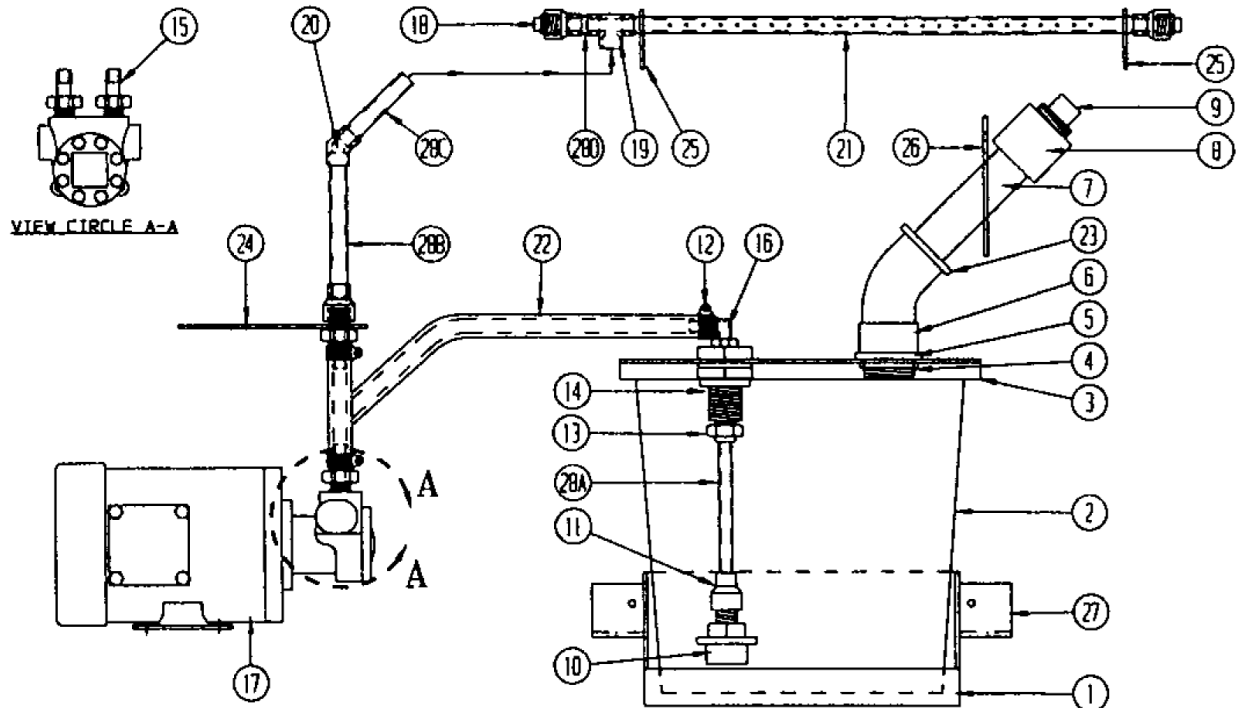
ITEM	QTY	PART #	DESCRIPTION
1	1	103319	REDUCER DODGE TXT - 325 - 25:1
2	1	104183	MOTOR 7.5 HP 200V - 213T FRAME (208 VOLT ONLY)
		104157	MOTOR 7.5 HP 230/460V - 213T FRAME (230, 460 VOLT ONLY)
3	1	103382	SHEAVE - 5.3 OD - 3 V - 3 GROOVE
4	1	103381	SHEAVE - 4.5 OD - 3 V - 3 GROOVE
5	3	103109	BELT - 3VX630
6	1	103166	BUSHING
7	1	103167	BUSHING
8	1	103322	REDUCING BUSHING

CUTTER ASSEMBLY



ITEM	QTY	PART #	DESCRIPTION
1	1	103012	SPROCKET
2	4	15605	SPACER
3	25	10030	TOP COMBER
4	49	15019	5/16 CUTTER
5	4	10032	TIE BAR
6	90	15603	SPACER
7	4	102003	BEARING
8	2	103040	SPUR-GEAR
9	1	10511	UPPER SHAFT
10	1	15020	LOWER SHAFT
11	4	15604	SPACER
12	24	10598	BOTTOM COMBER
13	1	15905	CUTTER KEY (LOWER SHAFT KEY 15.75")
14	1	15906	CUTTER KEY (UPPER SHAFT KEY 16.25")
15	1	103503	TORQUE LIMITER

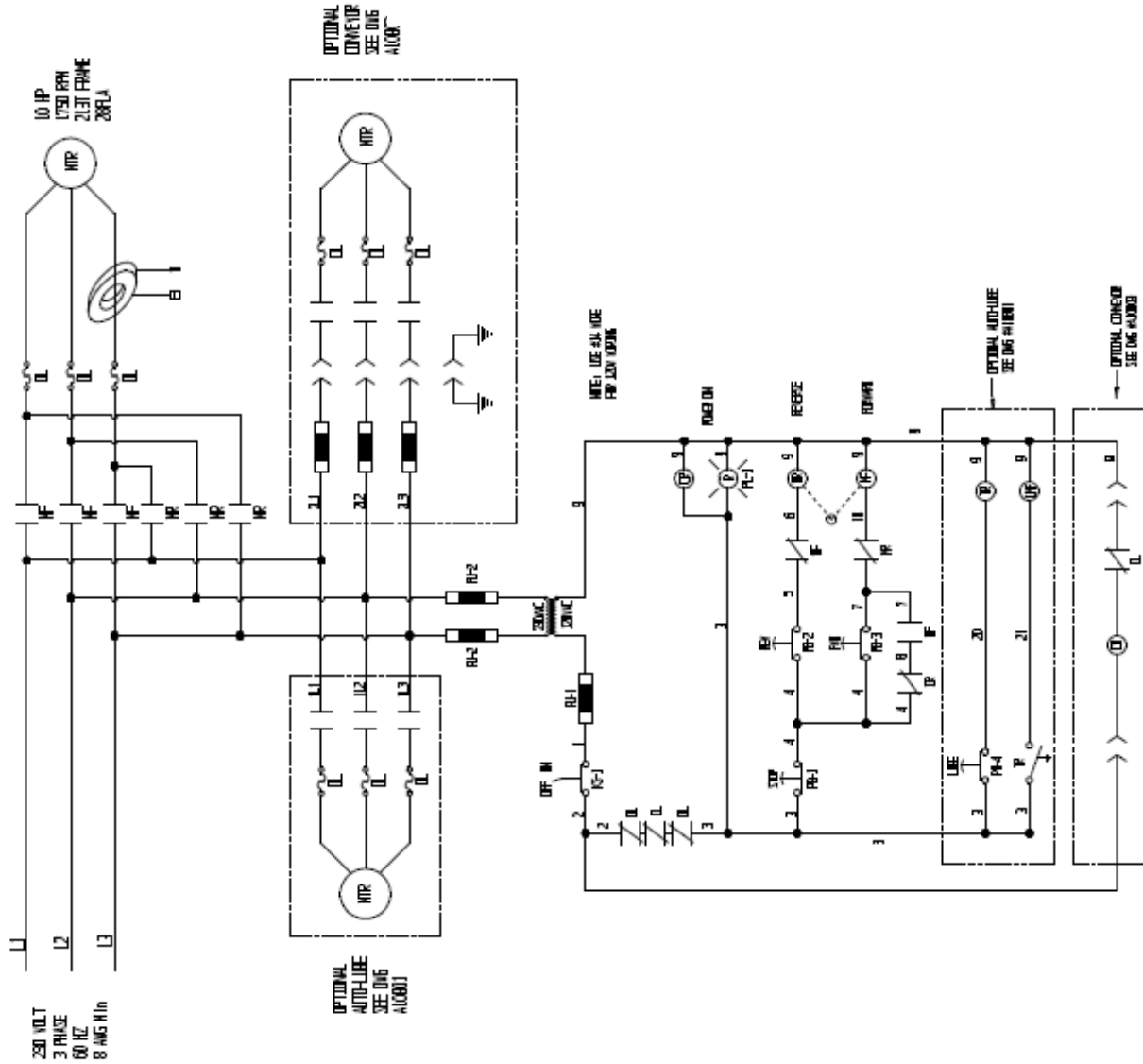
AUTO LUBE (OPTIONAL)



ITEM	QTY	PART #	DESCRIPTION
1	1	15295	LUBE SHELF
2	1	105045	PAIL
3	1	105046	PAIL LID
4	1	104878	CONDUIT NUT 1 1/2"
5	1	110989	SEAL 1 1/2"
6	1	105050	1 1/2" PVC MALE ADAPTER
7	1	16708	1 1/2" CPVC SCH 40 PIPE
8	1	105052	1 1/2" PVC FEMALE ADAPTER
9	1	110099	PVC 1 1/2" NPT PIPE PLUG
10	1	105042	SUCTION SCREEN
11	1	105022	CPVC 1/2" FEMALE ADAPTER
12	4	111109	HOSE CLAMP (SIZE 5/8" OD)
13	1	105047	1/2" CPVC TO 1/2" NPT MALE ADAPTER
14	1	105041	BULK HEAD FITTING
15	2	105040	BARBED FITTING 1/2" ID TUBING TO 1/2"
16	2	105055	BARBED FITTING 1/2" ID X 1/2" NPT 90°
17	1	105038	LUBE PUMP - 1/4 HP - 48 FR
18	2	105026	1/2" CPVC PIPE PLUG
19	1	105025	1/2" CPVC TEE
20	1	111108	1/2" CPVC 45° STREET ELL
21	1	16706	SPRAYER PIPE (1/32 HOLES)
22	1	105039	HOSE - BRAID
23	1	105051	PVC 1 1/2" X 45° ST ELL
24	1	32820	HOSE MOUNTING PLATE
25	2	32821	TOP HOSE MOUNTING PLATE
26	1	32822	PLATE
27	2	32823	BRACKET
28	1	16708	1/2" CPVC HC, SCH 4120 PIPE, 100 PSI (SEE SIZE CHART)

PIPE SIZE CHART	
ITEM	SIZE
28A	5 1/2"
28B	10 1/2"
28C	8 3/4"
28D	1"

ELECTRICAL DIAGRAM - AMS-1000



ITEM	QTY	PART #	DESCRIPTION
	1	104852	SO CORD
	1	104775	#8 AWG WIRE - BLACK
	1	104690	RECEPTACLE
	1	104691	PLUG
	1	104223	BACKPLATE
	1	104224	ENCLOSURE 14" X 12" X 8"
MTR	1	104158	MOTOR - 10 HP, 230/460V
CT	1	104630	CURRENT TRANSFORMER
FU-2	2	104901	FUSE - 2 AMP
FU-1	1	104370	FUSE - 1 1/2 AMP
CR	1	104528	CURRENT RELAY
OL-1	1	104480	OVERLOAD
TRANS	1	104624	TRANSFORMER
MFR	1	104272	MOTOR STARTER
PB-3	1	104440	FORWARD BUTTON
PB-2	1	104441	REVERSE BUTTON
PB-1	1	104439	STOP BUTTON
PL-1	1	104443	PILOT LIGHT
KS-1	1	104442	KEYSWITCH

MAINTENANCE CHECK LIST - DAILY

Date: _____

Model Number: _____

Serial Number: _____

Personnel: _____

WARNING

BEFORE PERFORMING ANY MAINTENANCE OR CLEANING LOCK OUT—TAG OUT ELECTRICAL POWER

Daily Cleaning

- Clean out cutter head with compressed air.
(Move cutters side to side while cleaning)

- Blow off entire machine.

Daily Lubrication

- Lubricate cutter head with clean 10-30W motor oil.
Cutters should be moved back, and forth to allow oil to reach cutter shafts.
Pint per oiling required.
(Oil should be poured on the top row of cutters. The oil should drain down to lower cutters.)

Note: The purpose of the oil is lubricate the main shafts where the cutters float back and forth. Very important that this is done after cleaning is done, and cutters are warm. This should be done at the end of the day to allow oil to soak in overnight.

MAINTENANCE CHECK LIST - MONTHLY

Date: _____

Model Number: _____

Serial Number: _____

Personnel: _____

Hour Meter Reading: _____

WARNING

BEFORE PERFORMING ANY MAINTENANCE OR CLEANING LOCK OUT—TAG OUT ELECTRICAL POWER

Monthly Cleaning

- Remove Shredder guards above reducer and spur gears as well as guard covering chains and remove all debris from these areas.

Monthly Lubrication Checks

- Same as daily checks.

Monthly Lubrication

- Lubricate all the chains.
Use a cable & chain aerosol can lubricate.
(Be careful not to spray lubricant on torque limiters)

Monthly Inspection Checks

- Drive belts from motor to reducer.
Check the belt for cracked or heat checking.
Belt separation on multi-band belts.
Does the belt squeal during a jam?
Indicating that it needs to be tightened.
- Inspect the input conveyor belt.
Check belt surface for gouging, rips, and tears.
Check the belt lacings for damaged or missing clips.
Check tracking of the belts, and adjust if needed.
- Lubricate spur gears
Spray Spur Gears with aerosol open gear lube. Apply generously to evenly coat both upper and lower gears.
- Check the sprockets, and chains.
Alignment of the sprockets.
Check set screws of each sprocket.
Tighten the chains if needed.
- Check for any lose, or missing fasteners.
(Use only grade 5 or higher on a shredder.)
- Inspect cutter head
Look for chipped, discolored, or broken cutter teeth.
Make sure all cutters move freely from side to side.
Look at the combers for excessive wear, or damage.
Make sure the shredder coast to a stop, and does stop quickly. Indicating a tight, or very dirty cutter head that can lead to major problems.

MAINTENANCE CHECK LIST - YEARLY

Date: _____

Model Number: _____

Serial Number: _____

Personnel: _____

Hour Meter Reading: _____

WARNING

BEFORE PERFORMING ANY MAINTENANCE OR CLEANING LOCK OUT—TAG OUT ELECTRICAL POWER

Yearly Cleaning

- Same as monthly cleaning.

Yearly Lubrication

- Grease Outboard bearing on lower shaft. 5- 8 pumps of grease.
- Grease the main motor 2-3 pumps of grease.
- Change oil in reducer.
This should be changed when oil is warm.
(Holds approximately 5 quarts of oil on TXT-425)
(use R/O Oil – ISO Grade #220 – SAE #50)
(Shell #Omala-220)

Note: See Manual for location of drain plug and refill plug.

Yearly Inspection Checks.

- Same as monthly checks.
- Inspect all bearings.
Broken or cracked bearing housings.
Lose or missing fasteners
- Check all conveyor pulleys.
Look worn or bent shaft.
Lose or missing set screws on bearings.
Listen for noisily pulley bearings.
Listen for grinding, or rubbing sounds coming from pulley area.
- Inspect all fasteners with a wrench.
- Inspect reducer for leaks.
Check the input, and output shaft seals.
Inspect the housing for cracks, or weeping of oil.
Check the bolts that hold housing together.
Check motor mount bolts, and torque arm bolt.
- Inspect all sprockets for wear.
Also check the set screw, and alignment.

LUBRICATION REFERENCE

REDUCER

AMS-300 – 1 QUART REQUIRED

AMS-500/750/1000* – 1 1/2 QUARTS REQUIRED

AMS-1000 with TXT-425 Reducer – 2 1/4 QUARTS REQUIRED

BRAND	SHELL	MOBILE	PENNZOIL	CHEVRON	EXXON	AMSOIL
NUMBER	OMALA 220	SHC 220	SUPER MAXOLS 220	TEGRA GEAR 220	SPARTAN EP220	SGM

SPUR GEAR

BRAND	SPRAYON	CRC	SWEPCO
NUMBER	S00201 12 OZ CAN	03058 16 OZ CAN	802 12 OZ CAN

ROLLER CHAIN

BRAND	LPS	LOCTITE	SWEPCO
NUMBER	02416 11 OZ CAN	81251 12 OZ CAN	803 12 OZ CAN

CUTTERHEAD

(ANY #10W CLEAN OIL WILL WORK)

BRAND	SHELL	EXXON	QUAKER STATE	PENNZOIL
NUMBER	10W MOTOR OIL	10W MOTOR OIL	10W MOTOR OIL	10W MOTOR OIL



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