

ALAMO INDUSTRIAL WARRANTY REGISTRATION INFORMATION

Alamo Model Serial No. Purchase Date - -

Purchaser Last Name First Name M.I.

Street & No., RFD, Box, &/or Apt. No.

City State or Province ZIP

Dealer

City State or Province ZIP

- I have informed the Purchaser of this product of Warranty terms, provisions, and procedures that are applicable, reviewed the contents of the Operator’s Manual including safety equipment, safe operation, and maintenance, reviewed the Safety Signs on implement (and tractor if possible), and Purchaser’s responsibility to train his operators in safe operation.
- **MOWERS:** I have explained that Deflectors, Chain Guards, or Solid Skirts must be maintained in good repair and installed except in areas where persons, vehicles, livestock, or other property will not be endangered by thrown objects and where such safety equipment would prevent the mower’s reasonable performance of its assigned task.
- **DRIVELINES:** Make certain that all drivelines, gearbox, and other shields are in good repair and fastened securely in place to prevent injuries from entanglement or thrown objects.

Dealer’s Signature _____ Date _____

I have been instructed on the paragraphs above, received and have been instructed in the contents of the Operator’s Manual including safety signs, safety equipment, safe operation, maintenance, and the potential hazards of unauthorized alteration or modification of the product. I have been informed of the warranty provisions and know that the warranty is not in effect until this form is received by Alamo Group.

I understand the Mower Guarding statements above and the potential hazards of operating without such guards. I understand that the operator is responsible for the safety of others in the area. I have examined the product and accept it as being complete and in satisfactory condition with all required guards.

CUSTOMER COPY Purchaser’s Signature _____ Date _____

PLEASE FILL OUT OWNER WARRANTY REGISTRATION INFORMATION ABOVE, SIGN, AND DROP LAST COPY IN ANY MAILBOX.

IMPORTANT!
**TO PLACE THIS WARRANTY IN EFFECT,
THIS WARRANTY REGISTRATION MUST BE
FILLED OUT, SIGNED, AND MAILED WITHIN 30
DAYS OF DELIVERY DATE OF THIS MACHINE.
DEALER AND PURCHASER MUST SIGN.**

**ATTENTION: ANY CLAIM SUBMITTED TO ALAMO INDUSTRIAL
WILL BE REFUSED UNTIL COMPLETED, SIGNED
WARRANTY REGISTRATION CARD IS ON FILE.**

ALAMO INDUSTRIAL WARRANTY REGISTRATION INFORMATION

Alamo Model Serial No. Purchase Date MONTH DAY YEAR

Purchaser Last Name First Name M.I.

Street & No., RFD, Box, &/or Apt. No.

City State or Province ZIP

Dealer

City State or Province ZIP

• I have informed the Purchaser of this product of Warranty terms, provisions, and procedures that are applicable, reviewed the contents of the Operator’s Manual including safety equipment, safe operation, and maintenance, reviewed the Safety Signs on implement (and tractor if possible), and Purchaser’s responsibility to train his operators in safe operation.

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• **DRIVELINES:** Make certain that all drivelines, gearbox, and other shields are in good repair and fastened securely in place to prevent injuries from entanglement or thrown objects.

• **HYDRAULIC MACHINES:** I have explained the necessity of using clean hydraulic oil, changing filters as instructed, stopping leaks, damage caused by operating with over-heated oil, caring for hoses, using hoses of proper rating, the necessity of maintaining the specified operating pressure, and the potential hazard of oil’s penetrating the skin.

• **BOOM-TYPE or FOLDING-TYPE MOWERS:** I have explained that it is not possible to guard against thrown objects when the head is lifted off ground and that operator is responsible to watch out for persons in the area. I have explained that the lifted mower head or boom can contact overhead obstructions with damage to cables and telephone lines and possible injury. I have explained that the extended head or boom or retracted boom can contact power lines with resulting electrocution injury or death and that operator is responsible for keeping clear of such hazards.

Dealer’s Signature _____ Date _____

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DEALER COPY Purchaser’s Signature _____ Date _____

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IMPORTANT!
TO PLACE THIS WARRANTY IN EFFECT, THIS WARRANTY REGISTRATION MUST BE FILLED OUT, SIGNED, AND MAILED WITHIN 30 DAYS OF DELIVERY DATE OF THIS MACHINE. DEALER AND PURCHASER MUST SIGN.

ATTENTION: ANY CLAIM SUBMITTED TO ALAMO INDUSTRIAL WILL BE REFUSED UNTIL COMPLETED, SIGNED WARRANTY REGISTRATION CARD IS ON FILE.

ALAMO INDUSTRIAL WARRANTY REGISTRATION INFORMATION

Alamo Model	A M <input type="text"/>	Serial No.	<input type="text"/>	Purchase Date	<input type="text"/> MONTH	<input type="text"/> DAY	<input type="text"/> YEAR
Purchaser Last Name	<input type="text"/>			First Name	<input type="text"/>		M.I. <input type="text"/>
Street & No., RFD, Box, &/or Apt. No.	<input type="text"/>						
City	<input type="text"/>			State or Province	<input type="text"/>	ZIP	<input type="text"/>
Dealer	<input type="text"/>						
City	<input type="text"/>			State or Province	<input type="text"/>	ZIP	<input type="text"/>

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Purchaser's Signature _____ Date _____

PLEASE FILL OUT OWNER WARRANTY REGISTRATION INFORMATION ABOVE, SIGN, AND DROP THIS CARD IN ANY MAILBOX.

IMPORTANT!

TO PLACE THIS WARRANTY IN EFFECT, THIS WARRANTY REGISTRATION MUST BE FILLED OUT, SIGNED, AND MAILED WITHIN 30 DAYS OF DELIVERY DATE OF THIS MACHINE. DEALER AND PURCHASER MUST SIGN.

ATTENTION: ANY CLAIM SUBMITTED TO ALAMO INDUSTRIAL WILL BE REFUSED UNTIL COMPLETED, SIGNED WARRANTY REGISTRATION CARD IS ON FILE.



ALAMO INDUSTRIAL

PO BOX 549
SEGUIN TX 78156-9967

Tear off & discard this part. Mail the card above.

Alamo Industrial
PO BOX 549
Seguin, Texas 78156-9967
210-372-3551



Alamo Industrial provides a full line of field tested & proven lift-type, pull-type, boom-mounted, offset-mounted, & semi-mounted rotary, flail, & sickle bar mowers; tractor-mounted, three-section flail mowers; self-powered rotary & flail mowers; and shredders.

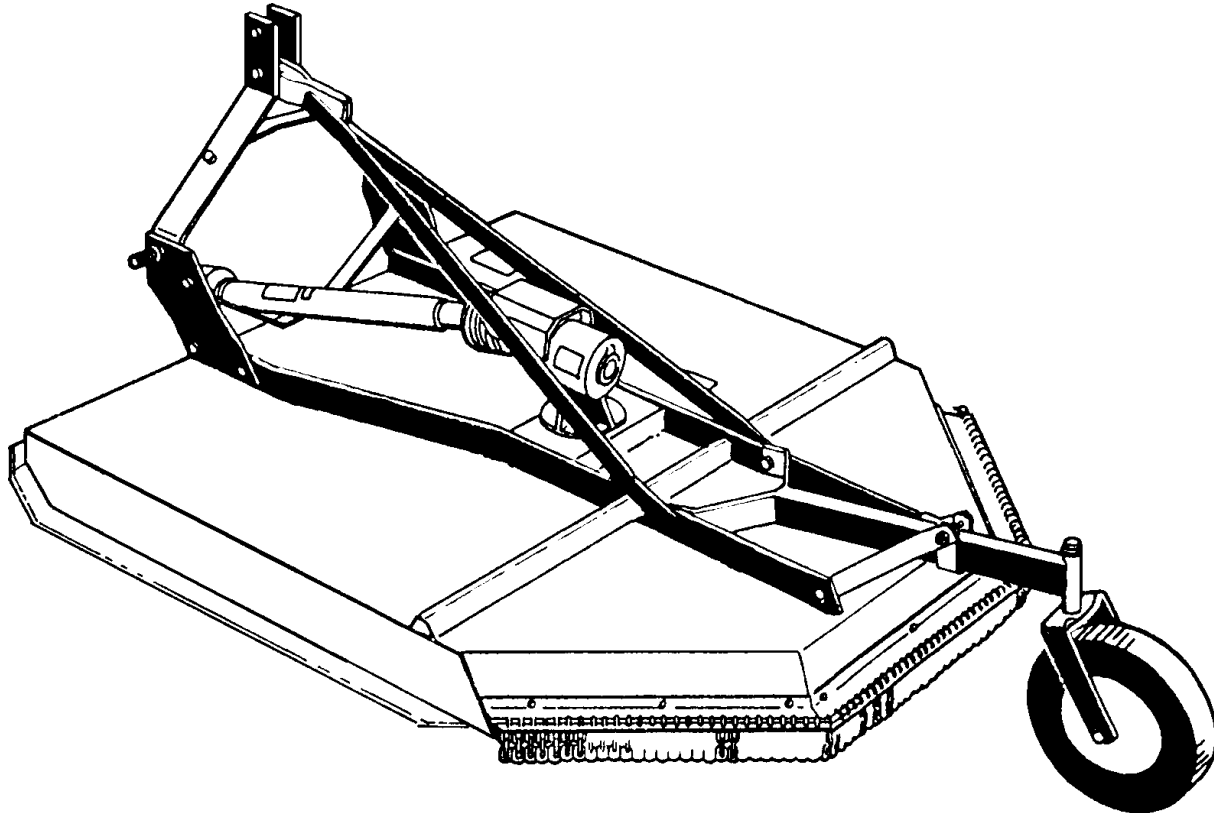


AM7000

Rotary Mower

Rev 03-13

P/N 00767100



Shown with Chain Guards (Optional Equipment)

OPERATOR'S MANUAL with PARTS LISTING

ALAMO INDUSTRIAL

1502 E. Walnut
Seguin, Texas 78155
830-372-9595



BUILT SHARPER[®]
An Alamo Group Company

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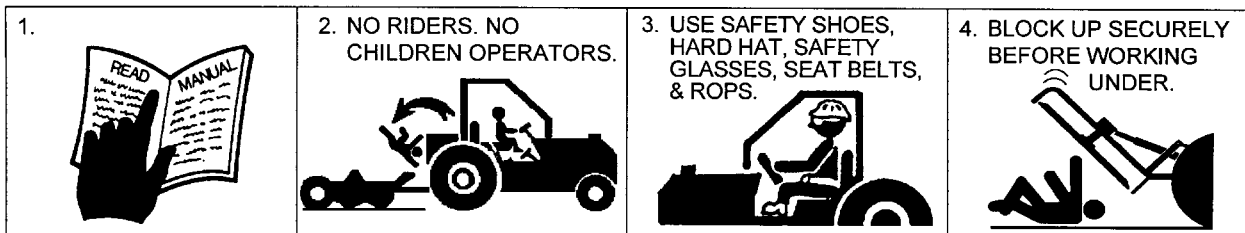
TO THE OWNER/OPERATOR/DEALER

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

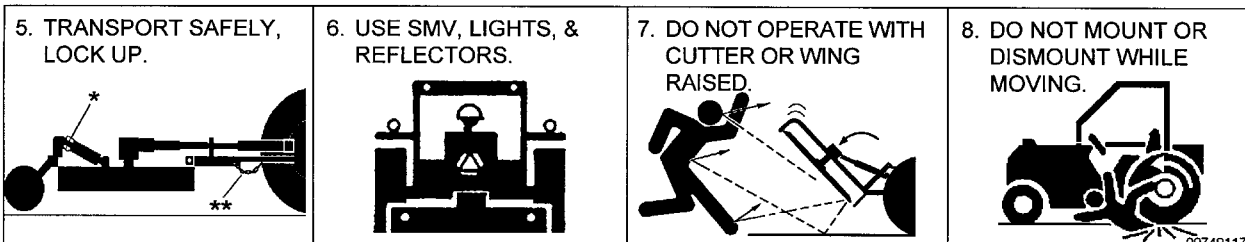
BEFORE YOU START!! Read the safety messages on the implement and shown in your manual.
Observe the rules of safety and common sense!



FAILING TO FOLLOW SAFETY MESSAGES AND OPERATING INSTRUCTIONS CAN CAUSE SERIOUS BODILY INJURY OR EVEN DEATH TO OPERATOR AND OTHERS IN THE AREA



1. Study and understand Operator's Manuals, Safety Signs, and Instructional Decals for tractor and implement to prevent misuse, abuse, and accidents. Practice before operating in a confined area or near passersby.
 - Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children.
2. Allow no children on or near implement or tractor. Allow no riders on tractor or implement. Falling off may cause serious injury or death from being run over by tractor or cutter or contact with rotating blades.
3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seatbelt fastened securely and snugly to prevent injury and possible death from falling off or tractor overturn. Personal Protective Equipment such as Hard Hat Safety Glasses, Safety shoes, and Ear Plugs are recommended.
4. Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted components to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain area is clear before lowering or folding.
5. Before transporting, put Lift Lever in detent or full-lift position. Install *Cylinder Stops as Transport Blocks securely or pull-type and folding implements. Slow down when turning and on hillsides.
 - Attach **Safety Chain to cutter and towing unit securely. See Operator's Manual.
6. Make certain that SMV sign, Warning Lights, and Reflectors are clearly visible. Follow local traffic codes.
7. Never operate with Cutting Head raised if passersby, bystanders, or traffic are in the area to reduce possibility of injury or death from objects thrown by Blades under Guards or cutter structure.
8. Before dismounting, secure implement in transport position or lower to ground.
 - Put tractor in park or set brake, disengage PTO, stop engine, and remove key, and wait until noise of rotation has ceased to prevent entanglement in rotating parts which can cause injury or death.
 - Never mount or dismount a moving vehicle. Crushing from runover may cause injury or death.



WARRANTY INFORMATION:

Read and understand the complete Warranty Statement found in this Manual. Fill out the Warranty Registration Form in full and return it within 30 Days. Make certain the Serial Number of the Machine is recorded on the Warranty Card and on the Warranty Form that you retain. The use of "will-fit" parts will void your warranty and can cause catastrophic failure with possible injury or death.

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SAFETY

DANGER!



There are obvious and hidden potential hazards in the operation of this mower. **REMEMBER!** This machine is often operated in rough terrain conditions and in heavy weeds. The Blades of this mower can throw objects for a great distance at very high speeds. Serious injury or even death may occur unless care is taken to insure the safety of the operator, bystanders, or passersby in the area.

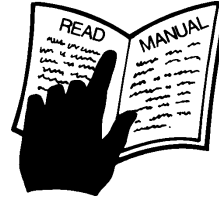
Included here is a list of Safety Messages which should be followed. Serious injury or death may occur unless care is taken to follow these Safety Messages and use good common sense in avoiding hazards.

Equipment should be operated only by those who are responsible and instructed to do so.

¡PELIGRO!



Si no lee Ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad.

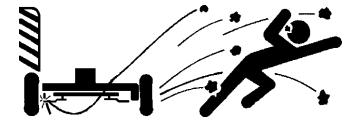


¡LEA EL INSTRUCTIVO!

DANGER!



Read this manual carefully to acquaint yourself with the Rotary Mower. Working with unfamiliar equipment can lead to accidents.



DANGER!



Rotary Mowers are capable under some conditions of throwing objects for great distances (100 yards or more), and causing objects to inflict serious injury or death. Follow safety messages carefully.

STOP MOWING IF PASSERSBY ARE WITHIN 100 YARDS UNLESS:

Front and Rear Deflectors, or Chain Guards, or Bands are installed and in good, workable condition.

- Mower sections are running close to and parallel to the ground without exposed Blades;
- Passersby are outside the existing thrown-object zone;
- All areas have been thoroughly inspected and all foreign material such as rocks, cans, glass, and general debris has been removed.

NOTE: Where there are grass and weeds high enough to hide debris that could be struck by the blades, the area should be inspected and large debris removed, mowed at an intermediate height, inspected closely with any remaining debris being removed, and mowed again at desired final height. (This will also reduce power required, reduce wear and tear on the Mower drivetrain, spread cut material better, eliminate streaking, and make the final cut more uniform.)

WARNING!



The Chain Guards, Bands, Flaps, Driveline Shields, and Gearbox Shields should be used and maintained in good working conditions. They should be inspected carefully at least daily for missing or broken cable, chain links, shields, or guards. Missing, broken, or worn items must be replaced at once to reduce the possibility of injury from thrown objects or entanglement.

DANGER!



Extreme care should be taken when operating near loose objects such as gravel, rocks, wire, and other debris. Foreign objects should be removed from the site or avoided to prevent machine damage and/or bodily injury or even death.

WARNING!



Do not let the Blades turn when the Mower Deck is raised for turning. This exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death by objects thrown from the Blades.

SAFETY

WARNING! Do not modify or alter or permit anyone to modify or alter this equipment or any of its components or any equipment function without first consulting your Equipment Dealer.



WARNING! The operator and all support personnel should wear hard hats, safety shoes, and safety glasses at all times for protection from injury by falling objects and items thrown by the machine.



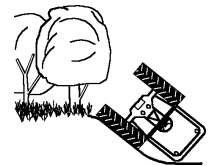
WARNING! Before leaving the tractor seat, always engage the brake and/or set the tractor transmission in parking gear. Disengage the PTO, stop the engine, remove the key, and wait for all moving parts to stop. Place the tractor shift lever into a low range or parking gear to prevent the tractor from rolling. Never mount or dismount a moving tractor. Operate the tractor controls from the tractor seat only.



WARNING! Many varied objects, such as wire, cable, rope, or chains, can become entangled in the operating parts of the mower head. These items could then swing outside the housing at greater velocities than the blades. Such a situation is extremely hazardous. Inspect the cutting area for such objects before mowing. Remove any like object from the site. Never allow the cutting blades to contact such items.



DANGER! Be particularly careful in transport. Turn curves or go up hills only at a low speed and at a gradual steering angle. Make certain that at least 20% of the tractor's weight is on the front wheels to maintain safe steering. Slow down on rough or uneven surfaces.



WARNING! Make certain that the "Slow Moving Vehicle" (SMV) sign is installed in such a way as to be clearly visible and legible. Use flashing warning lights and follow all local traffic regulations.



WARNING! Periodically inspect all moving parts for wear and replace with authorized service parts if an excessive amount of wear is present.



WARNING! Look for loose fasteners, worn or broken parts, and leaky or loose fittings. Make sure all pins have cotter pins and washers. Serious injury may occur from not maintaining this machine in good working order.



DANGER! Do not mount or dismount the tractor while the tractor is mowing. Mount or dismount the tractor only when it is completely stopped.



DANGER! Never leave the mower in the raised transport position. Mower could fall causing injury to anyone who might inadvertently be under mower.



SAFETY

DANGER! Never clean or adjust PTO-driven equipment with the tractor engine running.



WARNING! Never allow riders on either tractor or mower. Falling off can kill.



DANGER! Operate the mower only with a tractor equipped with an approved roll-over-protective system (ROPS). Always wear seat belts. Serious injury or even death could result from falling off the tractor--particularly during a turnover when the operator could be pinned under the ROPS for the Tractor.



DANGER! Never allow children to operate or ride on the tractor or mower.



DANGER! Never work under the Mower Deck, the framework, or any lifted component unless the mower is securely supported or blocked up to prevent sudden or inadvertent falling which could cause serious injury or even death.



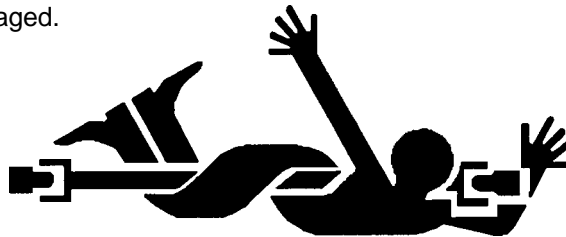
WARNING! Never operate the tractor and mower until you have read and completely understand this manual, the Tractor Operator's Manual, and each of the Safety Messages found on the tractor and mower.



WARNING! Always maintain the safety decals in good readable condition. If a decal becomes torn, painted over, or otherwise illegible, order replacement decals immediately.



DANGER! Make sure the PTO shield is installed when using PTO-driven equipment, and always replace the PTO shield if damaged.



WARNING! Do not turn sharp enough to get severe "knocking" or vibration in the Driveline which will cause accelerated wear and breakage of drive train components which may cause injury from the separated Driveline sections.



SAFETY

CAUTION!

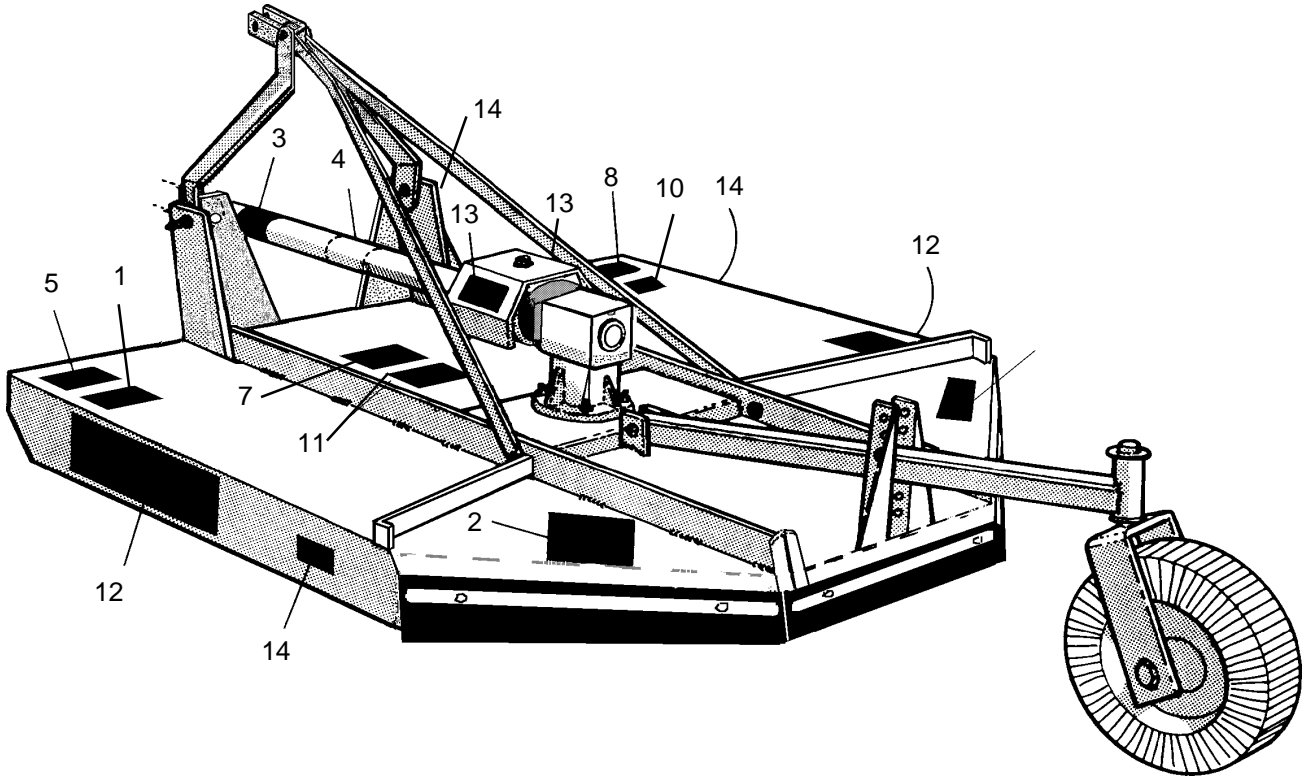
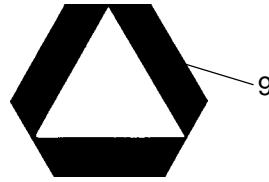


PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!

Tractors with or without Mowers attached can often be noisy enough to cause permanent, partial hearing loss. We recommend that you wear hearing protection on a full-time basis if the noise in the Operator's position exceeds 80db. Noise over 85db on a long-term basis can cause severe hearing loss. Noise over 90db adjacent to the Operator over a long-term basis may cause permanent, total hearing loss. Note: Hearing loss from loud noise [from tractors, chain saws, radios, and other such sources close to the ear] is cumulative over a lifetime without hope of natural recovery.

In addition to the design and configuration of this implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer also to Safety Messages and operation instruction in each of the appropriate sections of the Tractor and Mower Manuals. Pay close attention to the Safety Signs affixed to the Tractor and Mower.

SAFETY DECAL LOCATION



ITEM	PART NO.	QTY	LEVEL	DESCRIPTION
1	00725746	1	PELIGRO!	Get Safety Translated
2	00749117	1	DANGER!	Multiple Hazard
3	00756004	((1))	DANGER!	Driveline Shield Missing
4	00756005	((1))	DANGER!	Rotating Driveline
5	00769736	1	WARNING!	Use/Repair Shields & Guards
6	00769737	1	DANGER!	Blades/Thrown Objects
7	00756494	1	DANGER!	Driveline hazards
8	02925100	1	CAUTION!	Genuine Parts, Alamo Rotary
9	03200347	*	REFLECT	SMV Emblem
10	00763977	1	INSTRUCT	Notice to Owner
11	D103	1	INSTRUCT	540 RPM Operation
12	00757139	2	LOGO	ALAMO by TK (5.5 x 19.5)
13	02960766	2	LOGO	ALAMO (4 x 5)
14	00767108	1	NAME	AM7000 Name Decal
15	NFS	1	SRL PLT	Serial Plate

* Furnished by the Tractor Manufacturer

DECALS

⚠ WARNING
OPERATE THIS MACHINE AT
540 RPM
TRACTOR PTO SPEED ONLY
 Overspeeding PTO may cause component failure with resulting injury.

D103

11 - D103


⚠ DANGER

1. MAKE CERTAIN DRIVELINES ARE OF THE CORRECT LENGTH AND SECURELY ATTACHED. DRIVELINE SEPARATION AND/OR PTO STUB SHAFT FAILURE CAN CAUSE INJURY OR DEATH. (See Operator's Manual for procedure.)
* SEE MANUAL FOR MINIMUM OVERLAP & MINIMUM/MAXIMUM LENGTHS
2. MAKE CERTAIN THAT DRIVELINE SHIELDS ARE INSTALLED CORRECTLY AND TURN FREELY TO PREVENT INJURY OR DEATH FROM ENTANGLEMENT
3. MAKE CERTAIN THAT DRIVELINE IS INSTALLED CORRECTLY ON TRACTOR PTO SHAFT. MOVE YOKE BACK AND FORTH UNTIL LOCKING COLLAR CLICKS FORWARD AND LOCKS YOKE IN PLACE
4. 540 PTO RPM UNLESS SPECIFICALLY MARKED OTHERWISE.

7 - 00756494

⚠ PELIGRO LEA EL INSTRUCTIVO

Si No Lee Ingles, Pida Ayuda a Alguien Que Si Lo Lea Para Que le Traduzca las Medidas de Seguridad.



00725746

1- 00725746

⚠ DANGER



ROTATING DRIVELINE- CONTACT CAN CAUSE DEATH KEEP AWAY!
DO NOT OPERATE WITHOUT-

- All driveline guards, tractor and equipment shields in place
- Drivelines securely attached at both ends
- Driveline guards that turn freely on driveline

00756005

4- 00756005

⚠ DANGER



GUARD MISSING DO NOT OPERATE

00756004

⚠ DANGER



GUARD MISSING DO NOT OPERATE

00756004

⚠ DANGER

3- 00756004

NOTICE TO OWNER

An OPERATOR'S MANUAL (with Repair Parts Listing) and a WARRANTY REGISTRATION CARD were attached to this implement during final inspection at the factory. If they were not attached at the time of purchase, please contact your selling dealer at once.

1. Read and understand Manual before operating the implement.
2. Complete, sign, and mail the Warranty Registration Card in today.

00763977

10 - 00763977

⚠ CAUTION

For your safety and to guarantee optimum product reliability, always use genuine ALAMO replacement parts. The use of inferior "will-fit" parts will void warranty of your ALAMO implement and may cause premature or catastrophic failure which can result in serious injury or death. If you have any questions concerning the repair parts you are using, contact ALAMO, POB 549, Seguin, TX 78156-0549

02925100

8- 02925100



13- 02960766

AM7000

14- 00767108

2- 00749117 - Not Shown
 (See Inside Front Cover of Manual)

15- Serial Plate

DECALS

WARNING

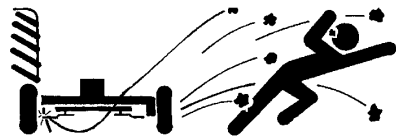
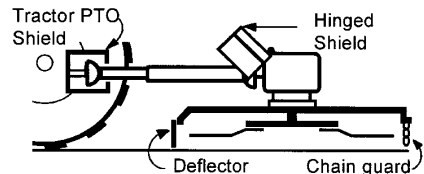
FAILURE TO USE AND MAINTAIN SHIELDS AND DEFLECTORS IN GOOD CONDITION MAY LEAD TO INJURY OR DEATH FROM ENTANGLEMENT WITH ROTATING PARTS, BEING HIT BY OBJECTS THROWN WITH GREAT FORCE BY BLADES, OR BY BLADE CONTACT.

- Always replace Guards which have been removed for maintenance. Never operate with Guards missing or broken.

- Chain Guards, Gearbox & Driveline Shields, Rubber-Fabric Deflectors, and Solid Band Enclosures are subject to wear and lost or broken parts and must be repaired or replaced as soon as damage is found.

- Safety Shielding must be installed and in good condition to reduce the possibility of thrown objects any time this machine is operated in any area where thrown objects could cause property damage or bodily injury.

ROTARY 00769736



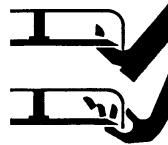
5 - 00769736

DANGER

THROWN OBJECTS



CUTTING BLADES



KEEP AWAY - ROTATING BLADES

BEING HIT BY THROWN OBJECTS OR CONTACTING ROTATING BLADES CAN CAUSE INJURY OR DEATH.

- Stop mowing if passersby enter the area of thrown objects (See Operator's Manual).
- Do not operate with Mower or Wing raised off the ground. (See Operator's Manual).
- Operate only if all Guards-Deflectors are in place and in good condition.

00769737

6 - 00769737

ALAMU INDUSTRIAL

12- 00757139

INTRODUCTION

This Rotary Mower is designed with care and built with quality materials by skilled workers. Proper assembly, maintenance, and operating practices, as described in this manual, will help the owner/operator get years of satisfactory service from the machine.

The purpose of this manual is to familiarize, instruct, and train. The Assembly Section instructs the owner/operator in the correct assembly of the Mower using standard and optional equipment. The Parts Listing section is designed to familiarize the owner/operator with replaceable parts on the Mower. This section provides exploded assembly drawings of each mower component illustrating each piece and the corresponding part number.

Careful use and timely service saves extensive repairs and costly downtime losses. The Operation and Maintenance Sections of the manual train the owner/operator how to work the Mower correctly and attend to appropriate maintenance. The Trouble Shooting Guide helps diagnose difficulties with mower and offers solution to the problems.

Safety is of primary importance to the owner/operator and to the manufacturer. The first section of this manual includes a list of Safety Messages, that, if followed, will help protect the operator and bystanders from injury or death. Many of the Safety Messages will be repeated throughout the manual. The owner/operator/dealer should know these Safety Messages before assembly and be aware of the hazards of operating this mower during assembly, use, and maintenance. The Safety Alert Symbol combined with a Signal Word, as seen below, is intended to warn the owner/operator of impending hazards and the degree of possible injury faced when operating this machine.

CAUTION The lowest level of Safety Message; warns of possible minor injury. Decals located on the Mower with this Signal Word are Black and Yellow.



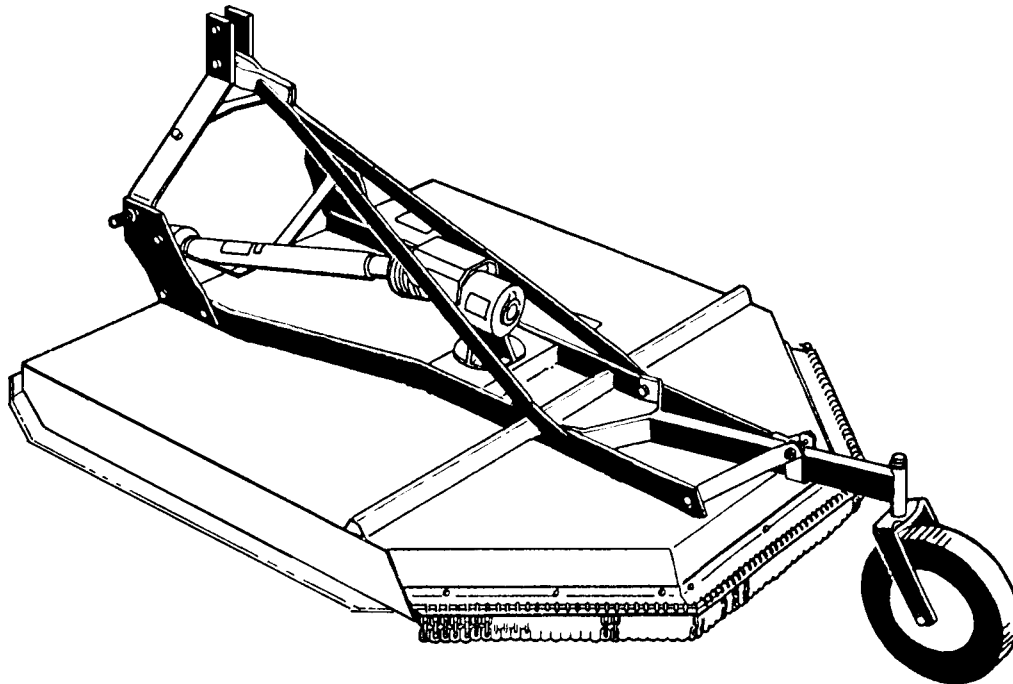
WARNING Serious injury or possible death! Decals are Black and Orange.



DANGER Imminent death/critical injury. Decals are Red and White.



INTRODUCTION



Your ALAMO AM7000 mower is designed for light-duty cutting such as pasture mowing, weed, and grass control. With a reasonable amount of preventive maintenance, your Mower will provide years of dependable service.

DANGER



For Non-Agricultural use, OSHA, ASAE, SAE, and ANSI standards require the use of Chain Guards, Deflectors, or Solid Skirts at all times. The Mower manufacturer strongly recommends the use of Chain Guards or Solid Skirts for Agricultural purposes as well, to reduce the risk of property damage, serious bodily injury, or even death from objects thrown out by or from contact with the Cutting Blades.

WARNING



At least 20% of the tractor's weight must be on the front tires with the Mower lifted to provide adequate traction for safe steering under good conditions. Slow down on hills, rough terrain, and curves.

Front and rear and left and right are determined by the normal direction of travel, the same as driving an automobile.

INTRODUCTION

ATTENTION OWNER/OPERATOR

BEFORE OPERATING THIS MACHINE:

1. Carefully read the Operator's Manual, completely understand the Safety Messages and instructions, and know how to operate correctly both the tractor and Mower.
2. Fill out the Warranty Card in full. Be sure to answer all questions, including the Serial Number of the Mower. Mail within 30 days of delivery date of this implement.

NOTE: *Warranties are honored only if completed "Owner Registration and Warranty" forms are received by Alamo Group within thirty days of delivery of the mower.*

3. Record the Mower Model and Serial Numbers on the Warranty page at the front of the Operator's Manual. Keep this as part of the permanent maintenance file for the Mower.



CAUTION



FOR YOUR SAFETY AND TO GUARANTEE OPTIMUM PRODUCT RELIABILITY, ALWAYS USE GENUINE ALAMO REPLACEMENT PARTS. THE USE OF INFERIOR "WILL-FIT" PARTS WILL VOID WARRANTY OF YOUR ALAMO IMPLEMENT AND MAY CAUSE PREMATURE OR CATASTROPHIC FAILURE WHICH COULD RESULT IN SERIOUS INJURY OR DEATH. IF YOU HAVE ANY QUESTIONS CONCERNING THE REPAIR PARTS YOU ARE USING, CONTACT ALAMO, P. O. BOX 549, SEGUIN, TX 78156.

02925100

ASSEMBLY

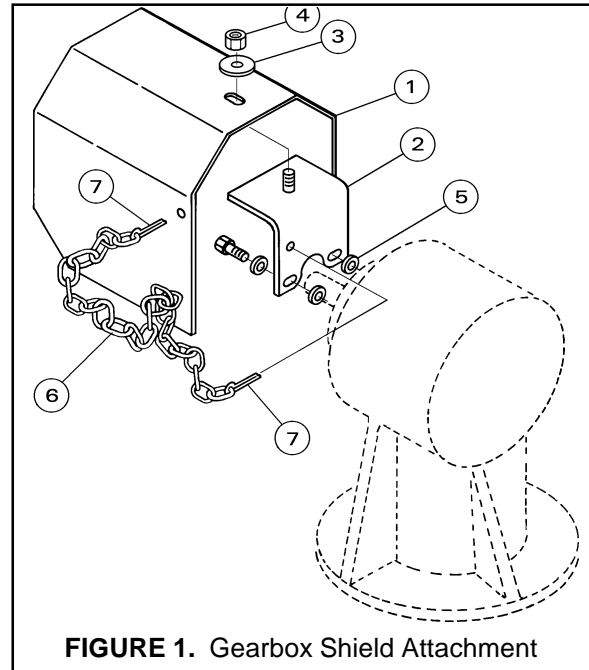
DEALER SET-UP INSTRUCTIONS

Set up mower as received from factory with these instructions. Refer to complete check list when set-up is finished.

Select a suitable working area. Open parts box and lay out parts to make location easy. Refer to Parts Lists in Section 6 of manual and packing list. Cut all wire ties.

This mower is shipped partially assembled. Assembly will be easier if components are aligned and loosely assembled before tightening hardware. Refer to bolt torque chart in Maintenance Section. All bolts are Grade 5 unless otherwise specified.

1. Position on flat surface.
2. Apply light oil to gear box input shaft.
3. Before installing gearbox shields, check lubricant level in gearbox. Refer to Maintenance Section - Gearbox. Split cotter pins (#8) and insert the last links of chain (#7) through them. Attach cotter pin (#8) through top shield bracket (#2) from outside in. Remove the top two bolts on on the front of the gearbox housing. Align holes in the top shield bracket (#2), place two flatwashers (#5) between top shield bracket (#2) and gearbox. Reinstall the bolts & lockwasher (torque to 33 ft. lbs.) Attach cotter pin (#8) through top shield (#1) from outside in. Attach shield (#1) to top bracket (#2) and secure with flatwasher (#3) and nut (#4). **Figure 1.**



4. Attach the slip clutch end of the driveline to the gearbox input shaft securely. Make certain that the slip clutch is fully onto the input shaft splines. **Figure 2.** Tighten the locknuts (2) alternately until they have reached the proper torque. Refer to Torque Chart.

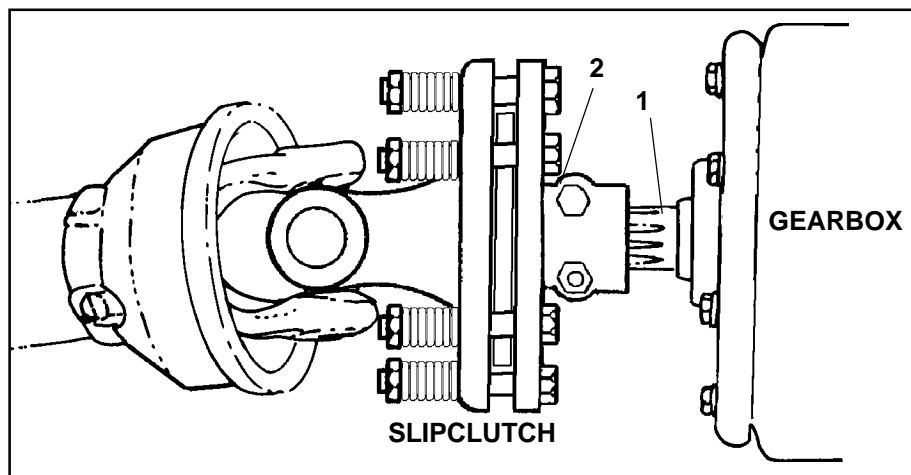


FIGURE 2. Driveline Slip Clutch Attachment

ASSEMBLY

A-FRAME INSTALLATION (FIGURE 3)

1. Place hitch brackets (#1 & #2) on outside of frame flats with offset in brackets toward outside. Retain hitch brackets using 5/8 x 2 capscrews (#3) and nuts (#5) for each side.
2. Attach diagonal hitch bracket braces (#6), with long leg up, to hitch bracket (#1 & #2) and main frame using 1/2 x 1-1/2 capscrews (#7) and nuts (#9).
3. Place hitch A-frame flats (#10 & #11), with holes toward front, between hitch brackets (#1 & #2) insert bushing (#12) into A-frame flats (#10 & #11), and attach using hitch pin (#13). Retain hitch pin (#13) using flatwasher (#14), lockwasher, and thick hex nut supplied with Cat. II hitch pin. Hitch pin installs through upper hole, 1-1/8 dia. in bracket (#1 & #2). Install thin nut on hitch pin before assembly. Bushing (#12) used in hitch flat is 1-1/2 OD x 1-1/8 ID.
4. Insert bushing (#15), 3/4" ID through tube welded in wide end of toggle. Insert toggle (#16) between upper hitch flats (#10 & #11). Toggle must be installed so center large hole is down. Align bushing I.D. with lower hole in A-frame flats (#10 & #11) and retain using 3/4 x 4-1/2 (#17) capscrew, and (#19) nut. **NOTE:** Check toggle to make sure it works freely. Small amount of lube placed on sides of toggle where rear brace contacts may help toggle action.
5. Insert bushing (#20), 1" OD x 5/8 ID, into center hole in toggle (#16) and place rear braces (#21) on each side of toggle. Align holes in front of rear brace and toggle and retain using 5/8 x 2 capscrew (#22) lockwasher and nut. Install 5/8 x 1-1/4 capscrew (#23) into rear hole in toggle and retain with lockwasher and nut. **NOTE:** Capscrew when installed must be on top of rear braces. Attach upper hitch pin (#24 & #25) to A-frame flats (#10 & #11).

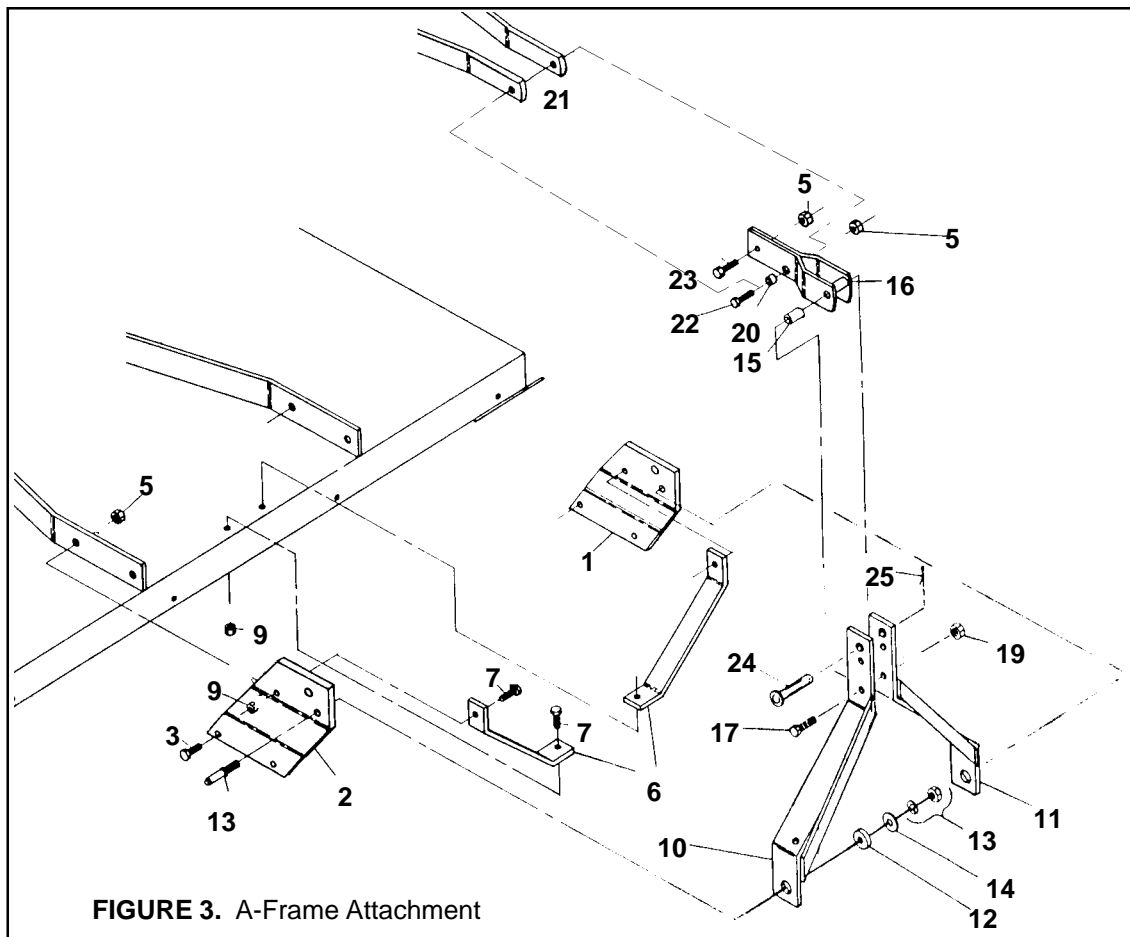


FIGURE 3. A-Frame Attachment

ASSEMBLY

HYDRAULIC RELIEF ASSEMBLY (FIGURE 4)

The Hydraulic Relief Assembly is available for attachment to front of cutter as an accessory. Check chains are used to control cut height and especially allows cutter to always be lowered to the same preset cut height.

Install lower end of check chain (#1) to lower front of the hitch bracket (#6) with bolt, lockwasher, and nut (#3, 4, 5). Tighten securely.

Install chain lugs (#2) on either side of tractor top link mounting (#9) using capscrew or pin of required diameter and length. Cat. II kit requires a 1" diameter capscrew (#8). Install top end of check chains (#1) in chain lug (#2).

Cutting height is then set by placing proper chain link in keyhole slot. Cutting height is easily adjustable by hooking chains higher or lower in the keyhole brackets (#2).

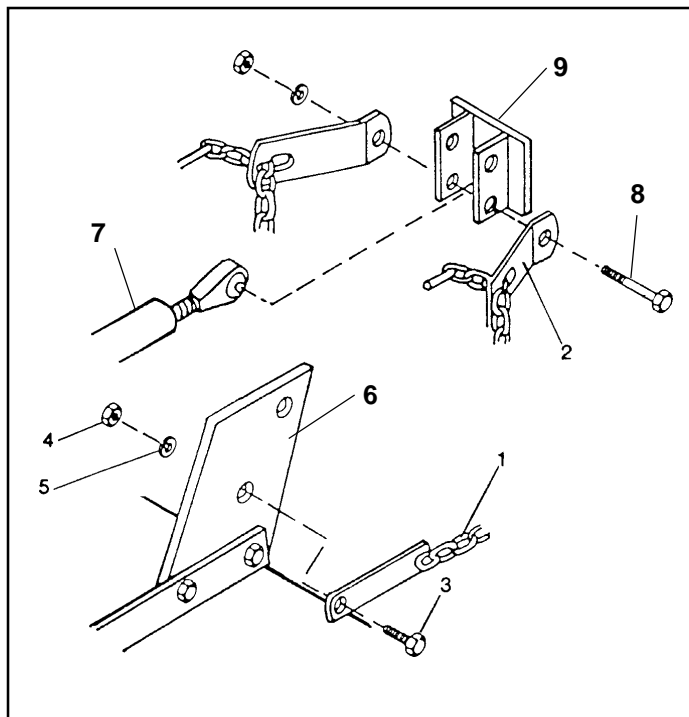


FIGURE 4. Hydraulic Relief Assembly

1. Check Chain
2. Chain Lug
3. Bolt
4. Nut
5. Lockwasher
6. Hitch Bracket
7. Tractor top Link
8. 1" capscrew x req'd. length
9. Tractor Top Link Mtg.

ASSEMBLY

GAUGE WHEEL MAINFRAME ASSEMBLY (FIGURE 5).

1. Insert gauge wheel frame yoke (#1) with grease zerk on top, between rear frame flats and align holes in yoke with second hole forward in rear frame flat. Insert bushing (#2) into rear braces (#3). Install flatwashers (#4) on 5/8 x 2 capscrews (#5) and insert through bushing (#2) in rear brace, hole in main frame flat, and hole in gauge wheel frame yoke (#1). Retain using lockwasher (#13) and hex nut (#14).
2. Attach one end of adjusting flats (#6) to end holes in main frame flats using 5/8 x 1-1/2 capscrews (#7) and retaining with lockwasher and nut. **NOTE:** *Adjusting flat should be located on inside of rear frame flats.*
3. Insert shaft on gauge wheel fork (#8) into tube on end of gauge wheel main frame (#1), install flatwasher (#9), and roll pin (#10).
4. Insert clevis from bottom (#11) over rectangular tube of gauge wheel frame (#1). Align holes on end of adjusting flats (#6) with holes in legs of clevis (#11) and insert 5/8 x 4-1/2 capscrew (#12). Retain using lockwasher (#13) and hex nut (#14).
5. Assembly should now be complete. Tighten all capscrews per torques given in Proper Torque for Fasteners Chart.

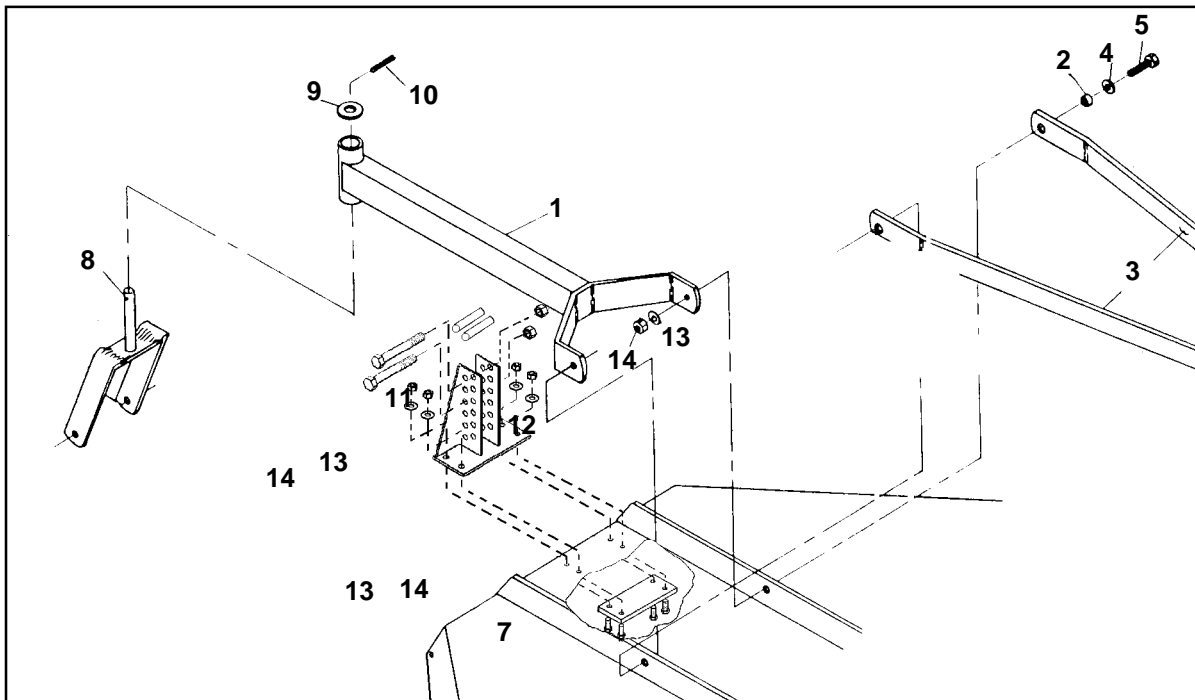


FIGURE 5. Gauge Wheel Mainframe Assembly

ASSEMBLY

DEFLECTORS AND CHAINGUARD ASSEMBLIES

Front and Rear Deflectors are standard equipment

OPTIONAL: CHAIN GUARD ASSEMBLIES

1. The SE7 mower front chainguards consist of two L shaped brackets (#4 & #5) and mounts to the front of mower deck with 3/8 round chain retaining rod (#6) on top of slotted bracket leg. Install with (#1) 7/16 x 1-1/4 capscrews, (#2) lockwashers, and (#3) nuts. **Figure 6.**

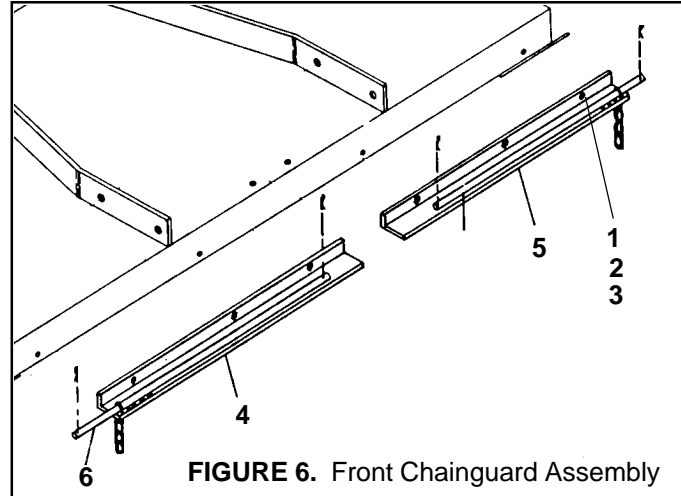


FIGURE 6. Front Chainguard Assembly

2. Rear chain shield is supplied in three assemblies. The center bracket (#4) is longest in length. The remaining two pieces (#6 & #7) match with ends of center bracket. All brackets must be installed so that chain retaining rod (#8) is on top of brackets. Install with (#1) 7/16 x 1-1/4 capscrews, (#2) lockwashers, and (#3) nuts. **Figure 7.**

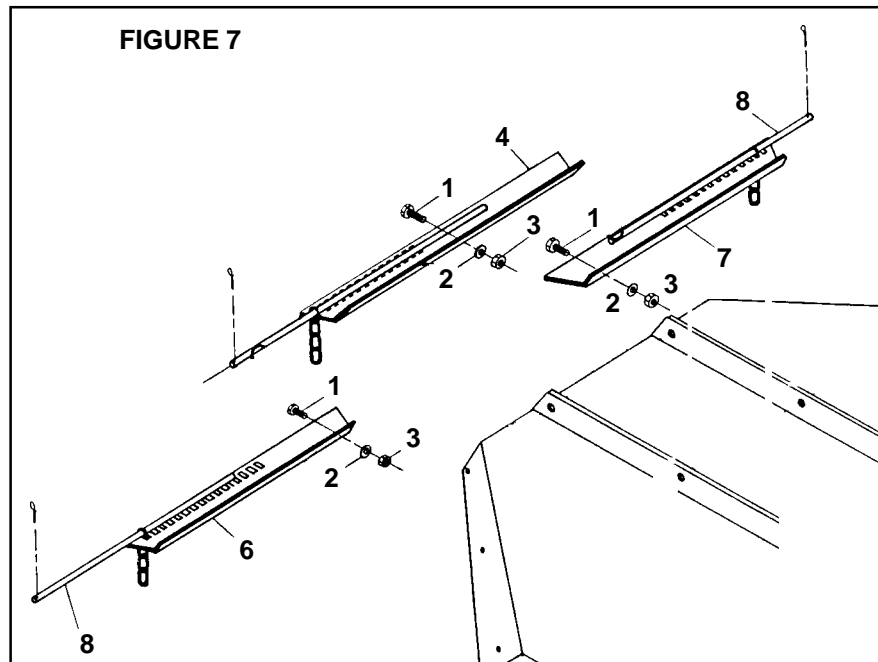


FIGURE 7

OPTIONAL: SPECIAL HEAT-TREATED SKID SHOES (For bolting to regular skid shoes)

Installation Instruction: Use Skid Shoe (#4) as template. Drill 7/16" diameter holes. Attach with bolt, lockwasher, and nut (#1,2, & 3). **Figure 8.**

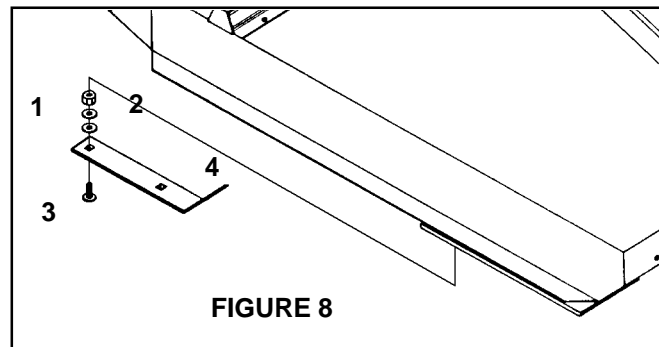


FIGURE 8

OPERATION

The safe operation of this machine is the responsibility of the operator. The operator should be familiar with the cutter and tractor and all safety practices before starting operation. This cutter is designed for use in light to medium brush shredding and pasture clipping. It is equipped with suction blades. Recommended cutting speed for most conditions is from 2 to 5 mph. Always operate tractor PTO at 540 RPM.

IMPORTANT: To avoid damage to cutter, retighten all bolts after the first 10 hours of operation. Retighten blade carrier retaining nut on gear box lower shaft to 450 ft. lbs and hitch pins to 300 ft. lbs. after 25 and 50 hours operation.

TRACTOR PREPARATION

A few simple preparations will be necessary to prepare your tractor for use with the Rotary Cutter.

1. Equip tractor with lift link stabilizer bars, as described in the tractor operator's manual.

IMPORTANT: When using 3-pt. mounted equipment, use front wheel weights, ballast in tires or a front tractor weight to improve front end stability. 20% of the combined tractor and cutter weight should be on the tractor front axle.

2. Remove cap from tractor PTO shaft.
3. Tractor PTO shield must be in place.

ATTACHING CUTTER TO TRACTOR

NOTE: *The 84" cutter is equipped with Cat. II hitch pins. Bushings are required to mount on quick coupler hitches. These bushings are normally available from most dealers.*

When attaching the Rotary Cutter to your tractor, follow the steps outlined in the tractor manual for attaching a 3-point hitch implement.

Attach cutter hitch pins to lower 3-point lift arms of tractor. Connect tractor top link to hole in top A-frame link on cutter using pin supplied.

With the Rotary Cutter attached to the tractor's 3-point hitch, proceed to connect the PTO as follows:

1. Grab and pull collar on end of attaching yoke toward cutter.
2. Slide yoke (with collar recessed) onto tractor PTO shaft.
3. Move yoke back and forth until locking collar "clicks" out, and locks the driveline in place.

WARNING!



A loose shaft could slip off and result in personal injury or damage to cutter. When attaching PTO yoke to tractor PTO shaft, it is important that spring activated locking collar slides freely and locking balls are seated in groove on PTO shaft.

OPERATION

DRIVELINE LENGTH CHECK PROCEDURE

WARNING!

Before operating cutter, check to make sure the driveline will not bottom out or become disengage.



- Disengage the Driveline from the tractor PTO Shaft.
- Slide the Driveline together until it "bottoms out" solidly.
- Apply colored tape to the Inner Shield 1/8" from the end of the Outer Shield. **Figure 1.**
- Re-attach the Driveline to the PTO Shaft.

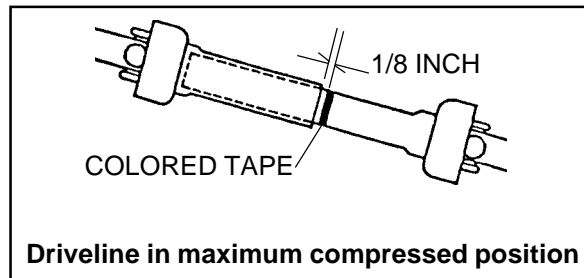


FIGURE 1. Driveline Length Check

To adjust length, hold the half-shafts next to each other in the shortest working position. If end of driveline extends beyond shield cone, mark them according to figures below (40mm=1-9/16"). Always maintain 1 9/16" clearance when operated in shortest working position. Shorten inner and outer guard tubes equally. Shorten inner and outer sliding profiles by the same amount that the shield tubes were shortened. Round off all sharp edges and remove burrs. Grease sliding profiles. **Figure 2.**

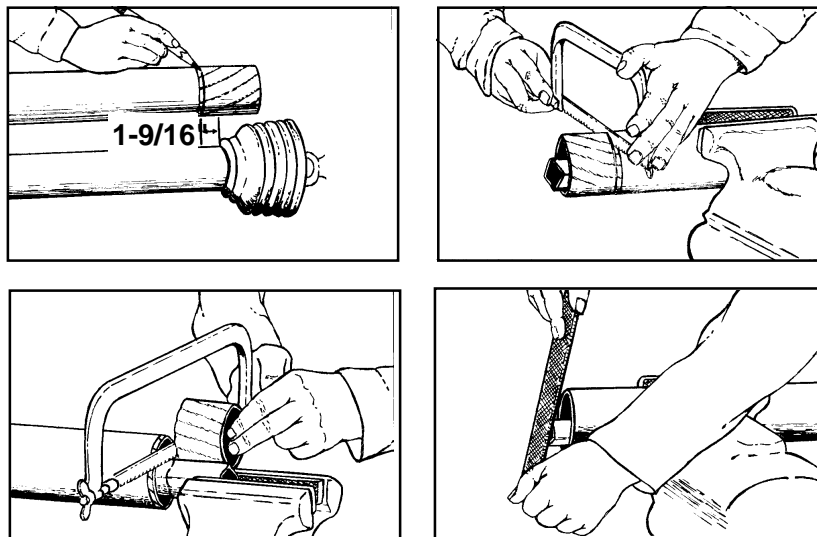


FIGURE 2. Driveline length adjustment.

WARNING!

Driveline profile engagement must always exceed 12" at any operating position.



OPERATION

CUTTING HEIGHT ADJUSTMENT

WARNING!

Avoid personal injury. Be sure tractor engine is off and key is removed before making any adjustments.



WARNING!

Avoid very low cutting heights. This greatly increases the chance of the blades hitting and throwing debris. Striking the ground with blades gives the most damaging shock loads a cutter can encounter, and will cause damage to cutter and drive.



To achieve maximum cutting efficiency, minimum power requirements, and provide the most uniform cut, the cutter should be operated with the rear of cutter slightly higher (1/2"-3/4") than the front.

1. Place tractor and cutter on level surface.
2. Raise the cutter to approximate desired cutting height with tractor hydraulic lift control lever.
3. Loosen clamp bolt on gauge wheel frame tube. Slide clevis clamp on tube until gauge wheel hits ground. To raise cutter, slide clevis clamp forward and to lower cutter, slide clamp to rear. Retighten clamp bolt.

NOTE: Install *OPTIONAL* check chains when there is a problem with tractor hydraulic system or when a constant preadjusted cut height is required. See check chain accessory.

4. Lower the cutter slowly until cutter is 1/2" - 3/4" higher at rear than at front. Position the adjustable stop on the tractor lift quadrant against the lift control lever so the cutter can be returned to the same cutting height.
5. Adjust the length of the top link so that when lifting the cutter the front of the cutter will raise 2 to 2-1/2 inches before the gauge wheels leave the ground. (This will allow the flexible hitch to pivot and allow the cutter to follow the contour on uneven ground.)
6. Level the cutter side to side with the tractor lower link adjustment.

IMPORTANT: When raising cutter to transport height, be sure there is clearance between the cutter and driveline. Damage will result if driveline hits cutter deck.

STARTING & STOPPING CUTTER

Power for operating cutter is supplied from tractor PTO. Refer to your tractor manual instructions for engaging and disengaging the PTO. Always engage the PTO at low engine rpm. Always operate at recommended PTO speed of 540 RPM. Learn how to stop tractor and cutter quickly in case of an emergency.

IMPORTANT: Stop cutter and tractor immediately upon striking an obstruction. Inspect the cutter and repair any damage before resuming operation. **Do not disengage PTO when engine is at full PTO RPM. Always idle engine before disengaging PTO.**

WARNING!

Avoid personal injury. When attempting to stop a tractor which does not have live PTO, the momentum created by the blade carrier of a rotary cutter can cause the tractor to be pushed forward. **DO NOT** operate this cutter unless tractor has live or independent PTO.



OPERATION

STARTING & STOPPING CUTTER

To commence operation, reduce engine speed and engage the tractor PTO. Before starting to cut, gradually increase engine speed to develop full PTO speed.

DANGER!



Chainguards must be installed if operating with persons or livestock in the area or close to highways or buildings and in all non-agricultural operations.

Enter the area to cut with the cutter operating at PTO speed and, if it becomes necessary to temporarily regulate engine speed during operations, increase or decrease the throttle gradually.

To transport, disengage the PTO, raise to transport height while making certain that driveline does not strike front of deck

CUTTING SPEED

Proper ground speed for cutting will depend upon the height, type, and density of material to be cut.

Normally, ground speed will range from 2 to 5 mph. Tall dense material should be cut at low speed while thin medium height material can be cut at a faster ground speed.

CUTTING TIPS

Always operate PTO at recommended RPM when cutting. This is necessary to maintain proper blade speed and to produce a clean cut.

Under certain conditions, tractor tires may roll some grasses down and prevent them from being cut at the same height as the surrounding area. When this occurs, reduce the tractor ground speed, but maintain PTO RPM. The lower speed will permit grasses to be at least partially rebound and be cut. Taking a partial cut and/or reversing the direction of travel may also produce a cleaner cut.

As often as possible, stop mowing when other people are passing by. Although the Mower is shielded to prevent objects from being thrown out by the blades, no one shield device is 100% effective. The safest possible course is the only sensible approach to the problem of endangering a passerby. The operator has greater knowledge of the dangers of being around this Mower while it is operational than the person on the street.

WARNING!



Avoid personal injury. Pick up all rocks and other debris before cutting. Enter new areas carefully. Cut material higher the first time to allow cutter to clear unseen objects. Never assume an area is clear. Always check.

Extremely tall grass should be cut twice. Raise cutter and cut twice the desired height. Cut the second time at desired height at 90 degrees to the first pass.

Remember, sharp blades produce cleaner cuts and use less power.

Before cutting, analyze the area to determine the best cutting procedure. Consider the height and type of material and the terrain type: hilly, level or rough.

OPERATION

DETACHING AND STORING

Lower the Mower to the Ground. Park the Tractor with the transmission in the correct gear (Automatic Transmission--Park; Standard Transmission--Neutral). Set the parking brake, shut off the engine, and remove the key. Wait until the PTO stops rotating before getting down from the tractor.

Disconnect the Driveline from the tractor PTO. Disconnect the Top Link and the Lower Lift Links from the Mower.

Always reinstall the Master Shield over the tractor PTO Shaft. This Shield should always remain in place except when connecting or disconnecting Driveline.

Keep hands and feet out from under Tongue or Shredder.

BEFORE OPERATING OR TRANSPORTING THIS MOWER:

Always display this SMV emblem (**Figure 3**) on the rear of the tractor transporting this mower where it is clearly visible to oncoming traffic. Prominent display of this symbol will help the operator avoid accidents which could cause injury or possibly death.

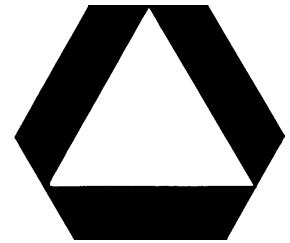


FIGURE 3. SMV Emblem.

TRANSPORTING

Pay particularly close attention to the Safety Messages regarding Mower transport. Avoid unnecessary injuries and equipment damage by exercising cautious, conscientious, travel procedures.

Attaching the Mower to the Tractor increases the overall length of the working unit. Allow additional clearance for the Mower to swing when turning.

Raise the Mower as high as possible for transporting while maintaining clearance between the Driveline and Deck of the three-Point Lift Mower.

When using the hydraulic Relief, adjust as described earlier for safer transport.

WARNING!



When transporting the Mower on a road or highway, use the tractor warning lights, SMV Sign, Reflectors, and other devices for adequate warning to the operators of other vehicles. Check the traffic regulations governing the locale where mowing is to be done, and work safely within those structures.

CAUTION!



Be sure that the tractor Lift Lever is locked into the "transport" detent before attempting to transport the Mower. Make certain that at least 20% of tractor weight is on front tires.

OPERATION

TROUBLE SHOOTING

TROUBLE	POSSIBLE CAUSE	POSSIBLE REMEDY
Excessive Vibration	1. Check Gearbox bolts.	Tighten if loose.
	2. Check for loose nuts on blade holder and blades.	Tighten if loose.
	3. Check for bent output shaft. If shaft is bent, oil will normally leak from bottom seal.	Replace shaft if bent.
	4. Check to see if blades are free swinging.	Free Blades so they swing.
	5. Check for even wear on each blade tip. Were both blades changed at the same time?	Weigh Blades. Weight should be within 1 oz. Always replace both blades.
	6. Blade broken.	Replace blades, in set.
	7. Blade carrier bent.	Replace carrier.
	8. Blade hub not properly seated on shaft.	Remove hub, check tapered spline shaft, clean and replace.
	9. New blade or bolts matched with worn blade or bolts.	Replace blades or bolts in sets.
	10. Drivelines not phased correctly. Implement & tractor yokes must be in line.	Replace driveline
Gearbox Overheating	1. Low on lubricant.	Fill to level plug.
	2. Improper type lubricant.	Replace with proper lubricant.
	3. Excessive trash build-up around gearbox.	Remove trash.
	4. Bearing or gears set up improperly.	Consult your Dealer.

OPERATION

TROUBLE SHOOTING

TROUBLE	POSSIBLE CAUSE	POSSIBLE REMEDY
Not Cutting Clean	1. Blades dull.	Sharpen or replace blades.
	2. Carrier RPM too low.	Use correct PTO speed and check for correct gearbox ratio. See specifications.
	3. Cutter not level.	See Cutting Height Adjustment.
	4. Tractor tires mashing down grass.	Reverse direction of cutting and drive with one tractor tire out of cutter overlap area. Conditions too wet to cut. Use offset adapter to move mower to left.
	5. Ground speed too fast.	Reduce ground speed by shifting to a lower gear.
	6. Blades locked back.	Free blades.
	7. Blades riding up due to blade bolt wear or loose bolts.	Replace blade bolts.
Streaking Conditions	1. Conditions too wet for cutting. Blades unable to cut that part of grass pressed down by path of tractor tires.	Allow grass to dry before cutting. Slow ground speed of tractor but keep engine running at full PTO rpm. Cutting lower may help.
	2. Dull blades.	Sharpen or replace blades.
	3. Height of cutter lower at rear or front.	See Cutting Height Instructions.
Blade Bolts Loosen	1. Bolts not tightened.	Tighten bolts to 350 ft.lbs.
	2. Bolt hole elongated or oversized.	Replace Bushing or Blade Carrier.
	3. Locknut worn out.	Replace Locknut.

OPERATION

TROUBLE SHOOTING

TROUBLE	POSSIBLE CAUSE	POSSIBLE REMEDY
Gearbox Noisy	1. Rough Gears.	Run in or change gears.
	2. Worn Bearings.	Replace bearing.
Gearbox Leaking	1. Damaged oil seal.	Replace seal.
	2. Bent Shaft.	Replace oil seal and shaft.
	3. Shaft rough in oil seal area.	Replace or repair shaft.
	4. Oil seal installed wrong.	Replace seal.
	5. Oil seal not sealing in the housing.	Replace seal or use a sealant on OD of seal.
	6. Oil level too high.	Drain oil to proper level.
	7. Sand hole in casting.	Replace castings or gearbox.
	8. Gasket damaged.	Replace gasket.
	9. Bolts loose.	Tighten bolts.
Clutch Slips Excessively	1. Not operating at 540 RPM.	Operate at 540 RPM.
	2. Too much load for clutch.	Reduce ground speed and material intake.
	3. Oil on facing.	Replace facings.
	4. Friction facings glazed.	Clean with emery cloth.
	5. Clutch linings badly worn or plates warped.	Repair clutch per maintenance section of manual.
Blade Wears Too Fast	1. Cutting in sandy conditions.	Increase cutting height.
	2. Cutting in rocky conditions.	Increase cutting height.

MAINTENANCE

Before operating your Rotary Cutter, make sure it is properly lubricated and thoroughly inspected. Only a minimum of time and effort is required to regularly lubricate and maintain this machine to provide long life and trouble free operation.

WARNING! Always disengage the PTO before raising the Rotary Cutter for transporting or making adjustments to prevent injury from rotating driveline or blades.



LUBRICATION INFORMATION

Do not let excess grease collect on or around parts, particularly when operating in sandy areas. The accompanying illustration shows lubrication points. **Figure 1.** The chart gives the frequency of lubrication in hours, based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication.

Use a lithium base NLGI grade 2 EP grease for all fitting locations shown. Be sure to clean the fitting thoroughly before using grease gun. Daily lubrication of the PTO slip joint is necessary. Failure to maintain proper lubrication will result in damage to U-joints, gearbox and/or driveline.

Lubrication Fittings

ITEM	DESCRIPTION	FREQUENCY
1	U-Joints	8 hour
2	Gear box-1/2 full (NLGI 000EP)	Check Daily
3	Tail Wheel Pivot Arm	8 hours
4	Driveline slip sleeve	8 hours
5	Tail Wheel Hub	8 hours
6	Pivot Points (SAE 30 WT).	8 hours

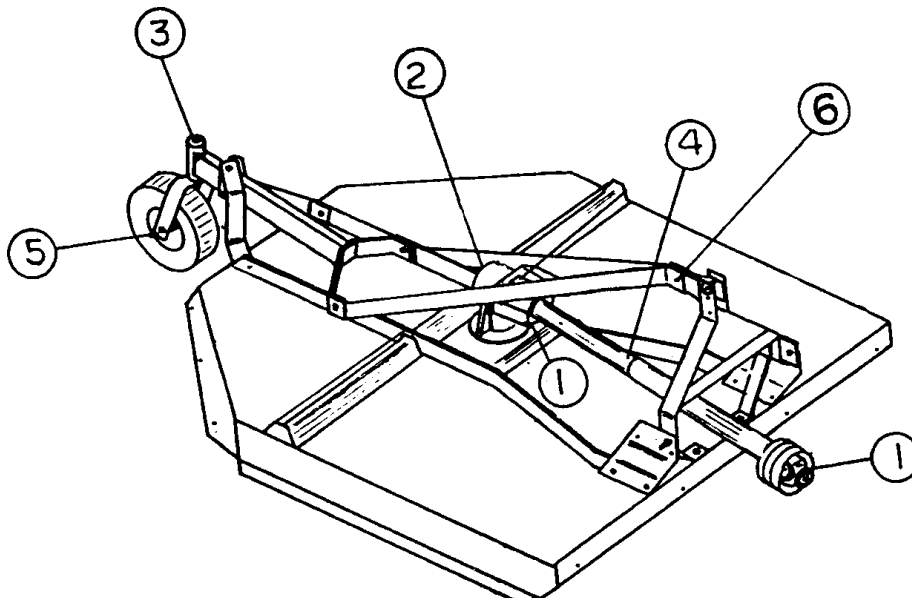


FIGURE 1. Lubrication Locations.

MAINTENANCE

GEARBOX

The gearbox should be full (18 ounces) .54 liters and not require additional lubricant unless the box is cracked or a seal is leaking. It is recommended that the 1/2" oil filler plug be removed after every 10 hours of operation and oil added until it runs out of the 1/2" test plug hole. **Figure 2.**

Recommended lubricant is NLGI 000 Grease, Alamo Group P/N 00765444.

NOTE: Make sure mower is level when checking oil in the gearbox.

NOTE: Overfilling the Gearbox will cause pressure to build up and cause Oil Seals to leak.

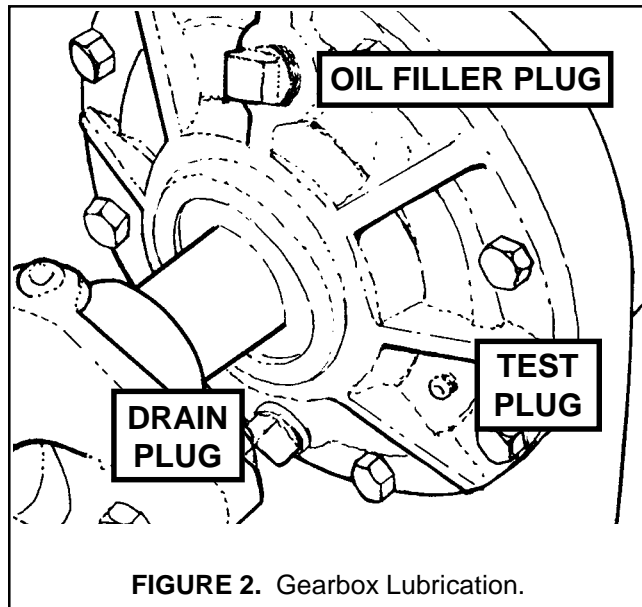


FIGURE 2. Gearbox Lubrication.

TAILWHEEL

Grease fitting on Hub of Wheel. **Figure 3.** Grease after every 10 hours use. Also a Grease Fitting is provided on the Tailwheel Beam at Caster Pivot Point. **Figure 4.** Grease after every 10 hours use to provide maximum trouble free service.

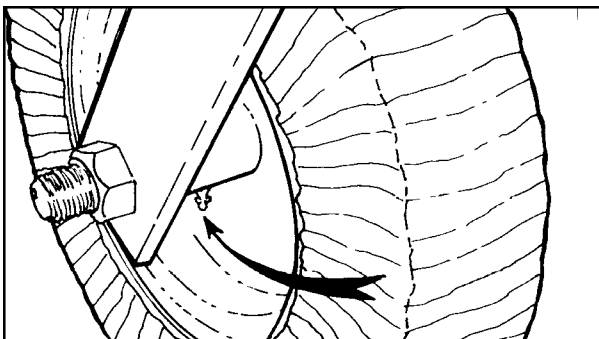


FIGURE 3. Tailwheel Hub Lubrication

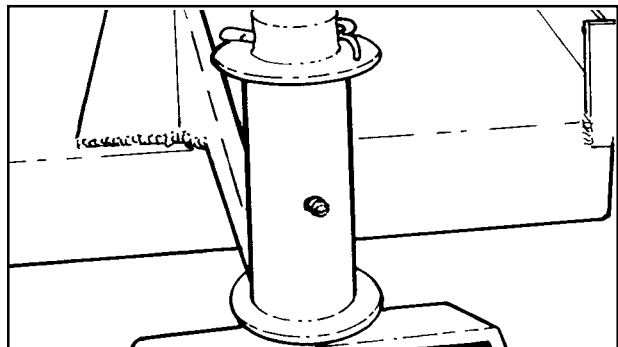


FIGURE 4. Tailwheel Beam Lubrication.

MAINTENANCE

UNIVERSAL JOINTS

Grease Fittings are located on the cross of each U-Joint. Grease after every 10 hours use.

DRIVELINE

The telescoping PTO shaft inside the shielding must be lubricated daily.

Disconnect driveline from tractor and pull halves apart. Insert grease into outer profile cavity on half attached to gearbox and spread evenly. Install driveline halves together.

Reconnect driveline to tractor. Raise and lower cutter after applying grease to spread over joint working area.

WARNING!



When attaching PTO yoke to tractor PTO shaft, it is important that spring-activated locking collar slides freely and locking balls are seated in groove on PTO shaft. A loose shaft could slip off and result in personal injury or damage to cutter.

BLADE SERVICING

Inspect blades before each use to determine that they are properly installed and in good condition. Replace any blade that is bent, excessively nicked, worn, or has any other damage. Small nicks can be ground out when sharpening.

IMPORTANT: When sharpening blades, grind each blade the same amount to maintain balance. The difference in blade weights should not exceed 1 ounce. Unbalanced blades will cause excessive vibration which can damage gearbox bearings. Vibration may also cause structural cracks in cutter housing.

WARNING!



Use only original equipment blades on this cutter. They are made of special heat-treated alloy steel. Substitute blades may not meet specifications and may fail in a hazardous manner that could cause injury.

BLADE SHARPENING

Always sharpen both blades at same time to maintain balance. Follow original sharpening pattern as shown in **Figure 5**. Always sharpen blades by grinding. **DO NOT** heat and pound out edge. Do not sharpen blade to a razor edge, but leave a 1/16" blunt edge. Do not sharpen back side of blade.

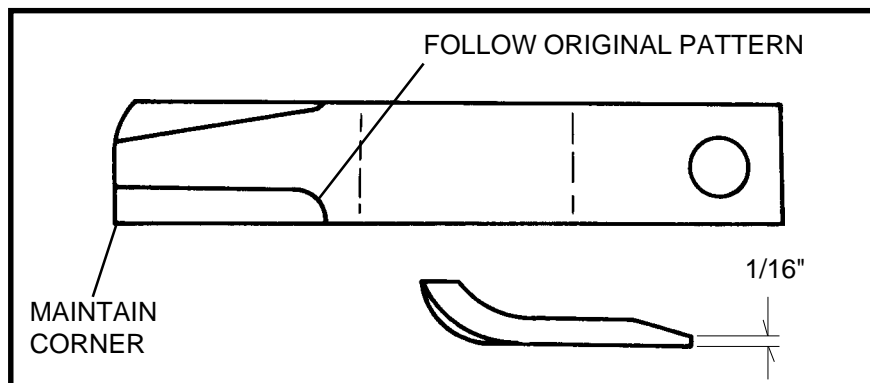


FIGURE 5 Blade Sharpening

MAINTENANCE

WARNING!

Avoid personal injury. Always block the cutter up to prevent it from falling when the blades and/or carrier are being serviced.



BLADE REMOVAL

To remove blades for sharpening or replacement, remove the cover plate on deck of cutter near gearbox. Remove lock nut from blade bolt. NOTE: Inspect lock nut after removal and replace if threads or nylon insert is damaged. Always replace nut when replacing blade bolt. When installing blades be sure and check blade bolt pivot diameter for wear. Replace bolt if worn more than 1/4 inch at any point. Install blade bolts with partially worn side of bolt either toward or away from center. Tighten lock nut to 300 ft. lbs.

WARNING!

Avoid personal injury. Blade and/or blade carrier removal should be done only with the tractor engine shut off, key removed, in neutral, parking brake on, and PTO disengaged and the cutter blocked in the raised position.



BLADE CARRIER REMOVAL

Remove cotter pin and loosen slotted nut on gearbox shaft. Loosen but do not remove the nut until the blade carrier is loosened. Use a suitable 2 jaw gear puller to pull carrier off tapered gearbox shaft. Once blade carrier is loose on shaft, remove nut and washer and remove carrier.

BLADE CARRIER INSTALLATION

Clean the splines on both the blade carrier and output shaft. Position carrier on the gearbox output shaft and install flat washer and 1" hex nut.

Tighten nut holding blade carrier to minimum 450 ft. pounds, strike the carrier near the hub several times with a heavy hammer to seat the hub. Use a suitable spacer over the nut to prevent damage to the nut and threads. Retighten the nut to 450 ft. pounds. Install cotter pin and spread.

IMPORTANT: Always recheck gear box output shaft slotted blade carrier retaining nut torque after a few hours operation.

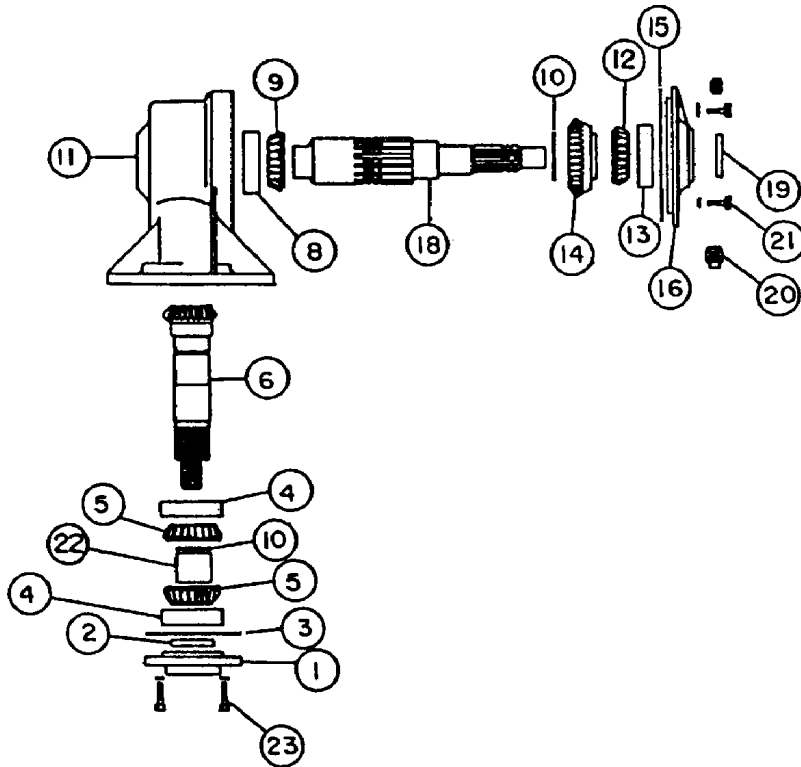
WARNING!

Avoid personal injury. Do not work under cutter without support blocks to keep frame from falling.



MAINTENANCE

GEARBOX SERVICE INSTRUCTIONS



- 1 Cap, Bearing Retainer
- 2 Oil Seal (Output)
- 3 Shim Bearing Retainer
- 4 Cup, Bearing (Output)
- 5 Cone, Bearing (Output)
- 6 Shaft (Output)
- 8 Cup, Bearing (Input Rear)
- 9 Cone, Bearing Input Rear)
- 10 Retaining Ring
- 11 Main Housing
- 12 Cone, Bearing (Input Front)
- 13 Cup, Bearing (Input Front)
- 14 Gear, (Input)
- 15 Shim (Input)
- 16 Side Housing
- 18 Shaft (Input) Splined
- 19 Oil Seal (Input)
- 20 Filler Plug
- 21 Capscrew
- 23 Bolt, Hex Head
- 24 Spacer (Output)
- 25 Gear (Output)

GEARBOX DISASSEMBLY FIGURE 6

1. Remove 8 capscrews (#21) from input shaft bearing housing (#16).
2. Tap around circumference of bearing housing (#16) to loosen housing and shims. Remove housing. It may be necessary to pry on housing to remove. Grab end of shaft and pull complete shaft assembly from housing. Remove gear (#25) from shaft (#6).
3. Remove 4 capscrews (#23), break gasket loose, and remove bearing retainer cap (#1).
4. Output shaft assembly must be removed from main housing by driving or pulling shaft out bottom end. The simplest method of removing the output shaft assembly is to attach a slide hammer puller to shaft and use that to pull out the shaft.
5. The gearbox is now disassembled into five (5) sub-assemblies:
 1. Input shaft assembly
 2. Output shaft assembly
 3. Lower bearing retainer assembly
 4. Main housing assembly
 5. Input shaft bearing housing

MAINTENANCE

INPUT SHAFT DISASSEMBLY AND ASSEMBLY

1. Remove bearing (#12) nearest input shaft bearing housing by tapping end on solid surface. Shock force will remove bearing (#12) and gear (#14). Remove bearing (#9) from opposite end of shaft.
2. Worn components can now be replaced and assembled in reverse order.

ASSEMBLY ORDER

1. Install gear (#14) onto shaft (#18).
2. Install bearing (#12) on shaft against gear.

NOTE: Use tube with ID just large enough to go over shaft to drive bearing against gear.

3. Install bearing (#9) on opposite end shaft. **NOTE:** Always support assembly so that bearing placed on opposite end is not damaged during assembly.

OUTPUT SHAFT DISASSEMBLY AND ASSEMBLY

1. Install slotted nut onto shaft (#6) and then tap shaft end on solid surface to remove lower bearing (#5) and spacer (#22).
2. Remove retaining ring (#10) which retains bearing (#5) under gear. Repeat above procedure to remove bearing (#5).
3. Replace worn parts and assemble in reverse order.

LOWER BEARING RETAINER CAP

1. Remove old seal (#2) from cap (#1) and press in new seal.
(See SEAL INSTALLATION RECOMMENDATIONS BELOW.)

MAIN GEARBOX

1. Remove bearing cup (#8) from inside main housing. A special slide hammer puller (PROTO No. 4056) or equal may be required to remove bearing cup. Press in new bearing cup using driving tube or pipe with approximate same OD. as cup. Seat bearing cup against shoulder in housing.

INPUT SHAFT BEARING HOUSING

1. Remove seal (#19) and bearing cup (#13). Press new cup and seal back in place.
(See SEAL INSTALLATION RECOMMENDATIONS).
2. Press oil seal flush with front side of bearing housing.

MAINTENANCE

SEAL INSTALLATION RECOMMENDATIONS

1. Check Seal - for damage that may have occurred prior to installation. A sealing lip that is turned back, cut or otherwise damaged should be replaced..
2. Check Bore - to see that leading edge is deburred. A rounded corner or chamfer should be provided.
3. Check Shaft - remove surface nicks, burrs and grooves and lubricate with a hard, fibrous grease.
NOTE: Wrap plastic tape around irregular shaft surfaces such as splines to protect seal during assembly.
4. Use Correct Installation Tool - Always use pipe or tube with approximately the same OD. as seal and press seal by striking tube.

NEVER HAMMER DIRECTLY ON THE SURFACE OF THE SEAL.

GEARBOX ASSEMBLY STEPS

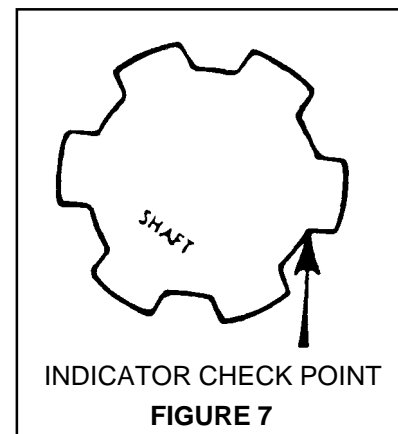
Clean and scrape all gasket surfaces.

A.

1. Insert output shaft assembly including upper bearing (#5), retaining ring (#10) spacer (#22) and lower bearing (#5) into housing. Insert lower bearing cup (#4) and press down against bearing cone using tube slightly smaller in OD than the cup.
2. Pre-lube lower bearing.
3. Place two shims in place and then carefully slide bearing retainer cap assembly down shaft. **NOTE:** Lubricate ID of seal before inserting over shaft.
4. Install bolts and lockwashers and torque to 85-105 ft. lbs.
5. Check bearing preload (Specification 8-16 inch-pounds). This must be measured with in.-lb. torque wrench. This measurement is the amount of force required to rotate the shaft. **NOTE:** If torque wrench is not available the following method can be used. Wrap a small diameter strong string several turns around threaded end of output shaft and attach an 8 lb. weight to string. If 8 lbs. weight will rotate shaft then preload must be increased by removing a shim (#3) and then rechecking. Check high limit of specification by attaching 16 lb. weight to string. If 16 lb. weight will not turn shaft then bearing preload is high and a shim must be added. There are .007 and 010 shims available. Once shim pack is established remove lower cap, apply thin coat of permatex and reinstall and torque capscrews.

B.

1. Install gear (#25) onto shaft (#6). Install input shaft into main housing. Assemble three shims (#15) and lubricate seal ID. in bearing support housing (#16) and carefully insert over shaft. Rotate bearing housing so that large 1/2 plug is directly over input shaft and oil level check plug is below and to side of shafts.
2. Install lockwashers and bolts and torque to 40-50 ft. lb.
3. Gear backlash check procedure - see FIGURE 7. Set dial indicator at marked point at bottom of spline, then while holding bottom shaft so it will not rotate; rotate the input shaft back and forth noting extreme indicator readings. If total indicator deflection reading does not fall between .002 to .006 then shims will have to be added to increase backlash or deleted to decrease backlash. Once shim pack determined remove support housing and apply thin coat Permatex and reinstall and torque capscrews.
4. Remove 1/2" pipe plug (#20) and fill gearbox with proper lubricant.
5. Install pipe plug and gearbox assembly is complete.



MAINTENANCE

SLIP CLUTCH

A slip clutch is incorporated in the PTO driveline. It is designed to slip, absorb the shock load, and protect the driveline.

After the first hour of operation, the Slip Clutch should be checked for overheating. After this first check, the Slip Clutch should be checked weekly or anytime there is overheating. To adjust the Slip Clutch, tighten the Spring Bolts to 1-5/16" length. Any increase or decrease in this tightness will change the torque rating and could cause premature failure.

The Slip Clutch should be checked periodically and adjusted to compensate for wear. If the mower has been idle for an extended period of time, or in wet weather, before operating check to be sure the Clutch Plates are not frozen or rusted together. Should this freezing occur, follow this procedure to break the plates loose.

1. Back the Nuts on the Spring Bolts off three complete turns on the stud.
2. Start the tractor engine, and rev the motor up to about half the tractor RPM.
3. Engage the PTO. The Clutch Plates should break loose.
4. Tighten the Nuts so the Spring Bolts are 1-5/16" and finish preparing the mower for operation.

There are four Friction Discs in the Slip Clutch. These should be checked weekly for oil or grease, wearing, and moisture which could cause corrosion on the Drive Plates.

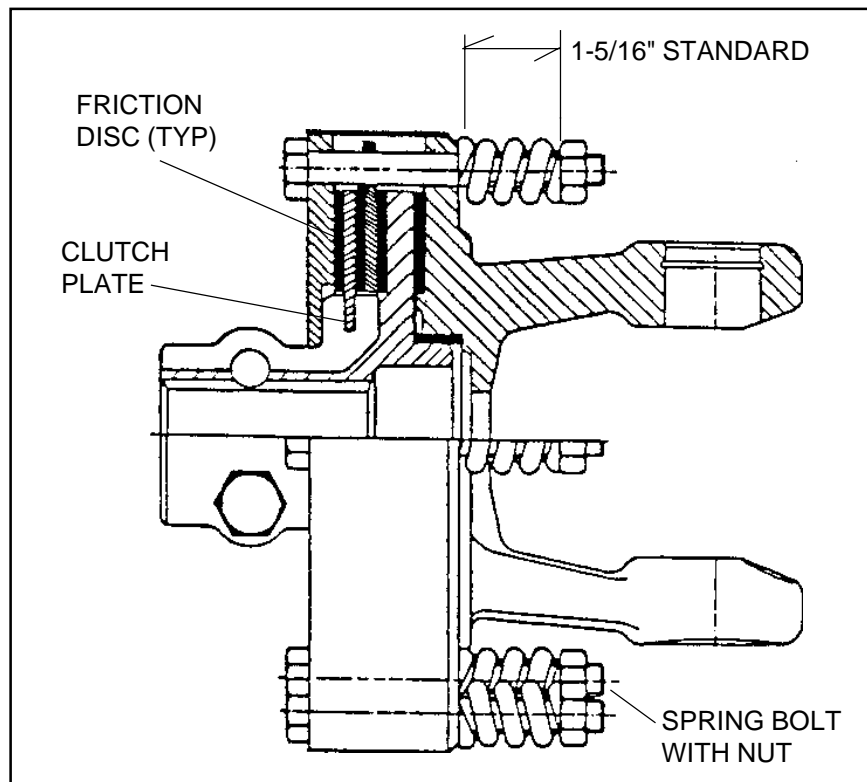


FIGURE 8. Slip Clutch Maintenance

MAINTENANCE

SEASONAL CLUTCH MAINTENANCE

It is important that the clutches slip when an obstacle or load heavier than the clutch setting is encountered. Before using the cutter each season, use the following procedure to make sure the clutch will slip and give the overload protection required.

1. Loosen nuts (1) **Figure 8** until the spring is free, and then retighten approximately one turn.
2. Attach machine to tractor, set engine at approximately half throttle and quickly engage PTO. This procedure will break clutch facings loose and allow the proper torque to be maintained.
3. Return the nuts and bolts to their original position of 1-5/16" compressed spring length. This setting is approximately 1-3/4 turns of the nut after the nut has contacted the spring.

NOTE: *If machine sits outside longer than 30 days and is exposed to rain and humid air, the clutches should be removed from machine and stored in dry area. Clutch facings will soak up moisture and cause the metal plates to rust badly. When this occurs, the break-away torque increases greatly and damage to gearbox, driveline, or tractor PTO can occur.*

STORAGE

Your rotary cutter represents an investment from which you should get the greatest possible benefit. Therefore, when the season is over, the cutter should be thoroughly checked and prepared for storage so that a minimum amount of work will be required to put it back into operation for the next season. The following are suggested storage procedures:

1. Thoroughly clean the cutter.
2. Lubricate the cutter as covered in Maintenance Section.
3. Tighten all bolts and pins to the recommended torque.
4. Check the cutter for worn or damaged parts. Make replacements immediately.
5. Store the cutter in a clean, dry place with the cutter housing resting on blocks.
6. Use spray touch-up enamel where necessary to prevent rust and maintain the appearance of the cutter.

MAKE EVERY DAY
A HOLIDAY
FROM ACCIDENTS

MAINTENANCE

PROPER TORQUE FOR FASTENERS

The torque chart (**Figure 9**) lists the correct tightening torque for fasteners. When bolts are to be tightened or replaced, refer to this chart to determine the grade of bolts and the proper torque except when specific torque values are assigned in manual text.

RECOMMENDED TORQUE IN FOOT POUNDS (NEWTON-METERS) UNLESS OTHERWISE STATED IN THE MANUAL

NOTE: These values apply to fasteners as received from supplier, dry or when lubricated with normal engine oil. They do not apply if special graphited or molydisulphide greases or other extreme pressure lubricants are used. This applies to both UNF fine and UNC coarse threads.




RECOMMENDED TORQUE IN FT-LBS (Nm) COARSE AND FINE THREADS			
2 (B)  5 (D)  8 (F) 			
Bolt Diameter	Plain Head	Three Dashes	Six Dashes
1/4	Not used	10 (14)	14 (19)
5/16	Not used	20 (27)	30 (41)
3/8	Not used	35 (47)	50 (68)
7/16	35 (47)	55 (75)	80 (108)
1/2	55 (75)	85 (115)	120 (163)
9/16	75 (102)	130 (176)	175 (237)
5/8	105 (142)	170 (230)	240 (325)
3/4	185 (251)	300 (407)	425 (576)
7/8	160 (217)	445 (603)	685 (929)
1	250 (339)	670 (908)	1030 (1396)
1-1/8	330 (447)	910 (1234)	1460 (1979)
1-1/4	480 (651)	1250 (1695)	2060 (2793)

FIGURE 9. Torque Chart

MAINTENANCE

PRE-DELIVERY CHECK LIST

Inspect the cutter thoroughly after assembly to be certain it is set up properly before delivering it to the customer. The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- _____ Check all bolts to be sure they are tight.
- _____ Check that all cotter pins are properly installed.
- _____ Check that PTO shaft is properly installed.
- _____ Check that gearbox is properly serviced and seals are not leaking.
- _____ Check that all lubrication points with grease fitting have been lubricated.
- _____ Check that blades have been properly installed.
- _____ Check that all safety shields are installed.
- _____ Check that all Safety Decals are in place. (Refer to decal page for decal identification.)

DELIVERY CHECK LIST

- _____ Show customer how to make adjustments.
- _____ Explain importance of lubrication to customer and point out lubrication points on cutter.
- _____ Point out safety features and options, especially chain shielding.
- _____ Add wheel weights, ballast in front tires, and/or front tractor weights to improve tractor front end stability.
- _____ Explain to the customer that when the cutter is transported on a road or highway at night or during the day, safety devices should be used for adequate warning to operators of other vehicles.
- _____ Give the operator's manual to the customer and ask him to familiarize himself with all sections of it.

DAILY CHECK LIST

- _____ Check that cutter is properly and securely attached to tractor.
- _____ Occasionally check that lower lift arm hitch pin nuts are tight (recommended torque of 300 foot pounds).
- _____ Lubricate PTO shaft slip tube on all four sides and all grease fitting locations.
- _____ Check gear box for leakage. If leakage is evident, check oil level and add if necessary.
- _____ During inspection, check that all nuts and bolts are secure and clevis pins are properly cotter pinned.

Check condition of blades and security of attachment.

DANGER! Install chain guards if operating with persons or livestock in the area or close to highways or buildings.



PARTS ORDERING GUIDE

The following instructions are offered to help eliminate needless delay and error in processing purchase orders for the equipment in this section.

1. The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
2. The Purchase Order must include the name and address of the person or organization ordering the parts, who should be charged, and if possible, the serial number of the machine for which the parts are ordered.
3. The Purchase Order must clearly list the quantity of each part, the complete and correct part number, and the basic name of the part.
4. The Manufacturer reserves the right to substitute parts where applicable.
5. Some parts are unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a Purchase Order.
6. The Manufacturer reserves the right to change prices without prior notice.

NOTE: Please refer to The Safety Section in the front of this Manual for the proper PartNumber when ordering Replacement Safety Decals.



For maximum safety and to guarantee optimum product reliability, always use genuine Alamo Parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death. Direct any questions regarding parts to:

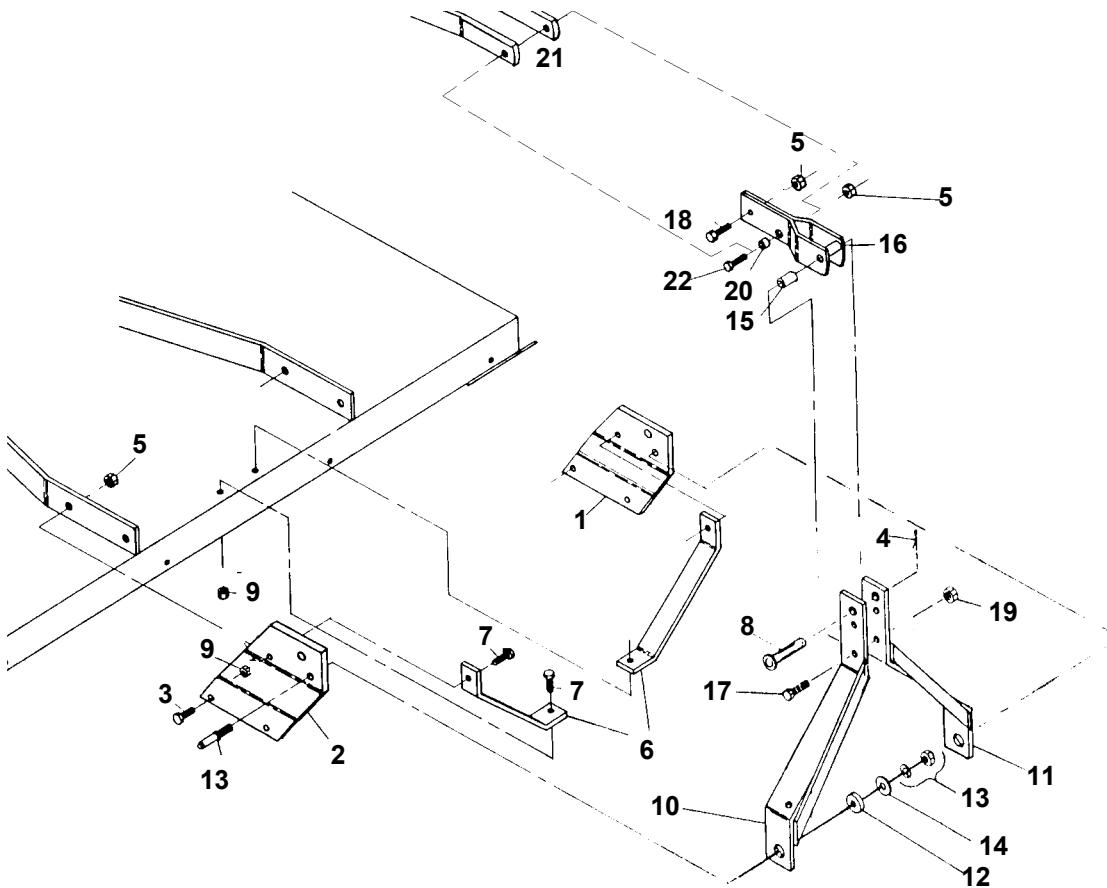


Alamo
P.O. Drawer 549
Seguin, Texas 78156
830-372-3080

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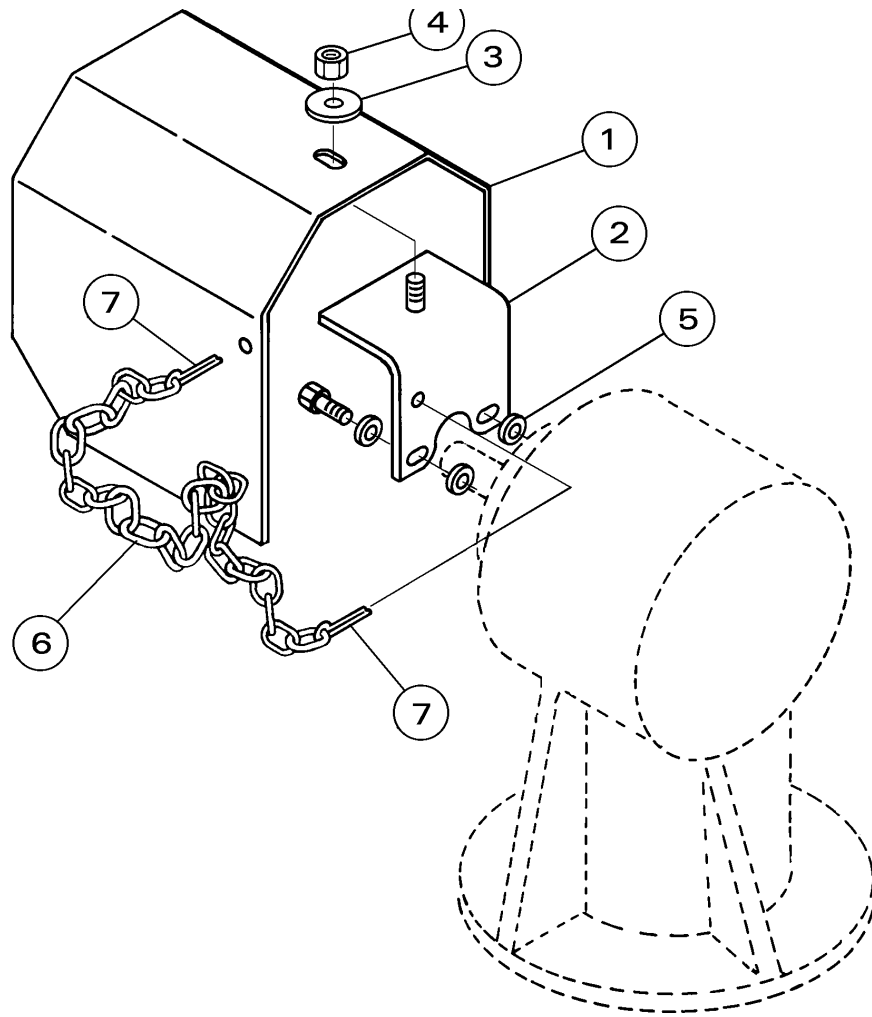
A-Frame Assembly	6-4
Gearbox Shield Assembly	6-5
Driveline Assembly & Slip Clutch	6-6
Gearbox Assembly	6-8
Blade Carrier Assembly	6-9
Guage Wheel Mainframe Assembly	6-10
Skid Shoe Assembly	6-12
Deflector Assemblies	6-13
Chain Guard Assemblies.....	6-14
Hydraulic Relief Asembly	6-15

A-FRAME ASSEMBLY



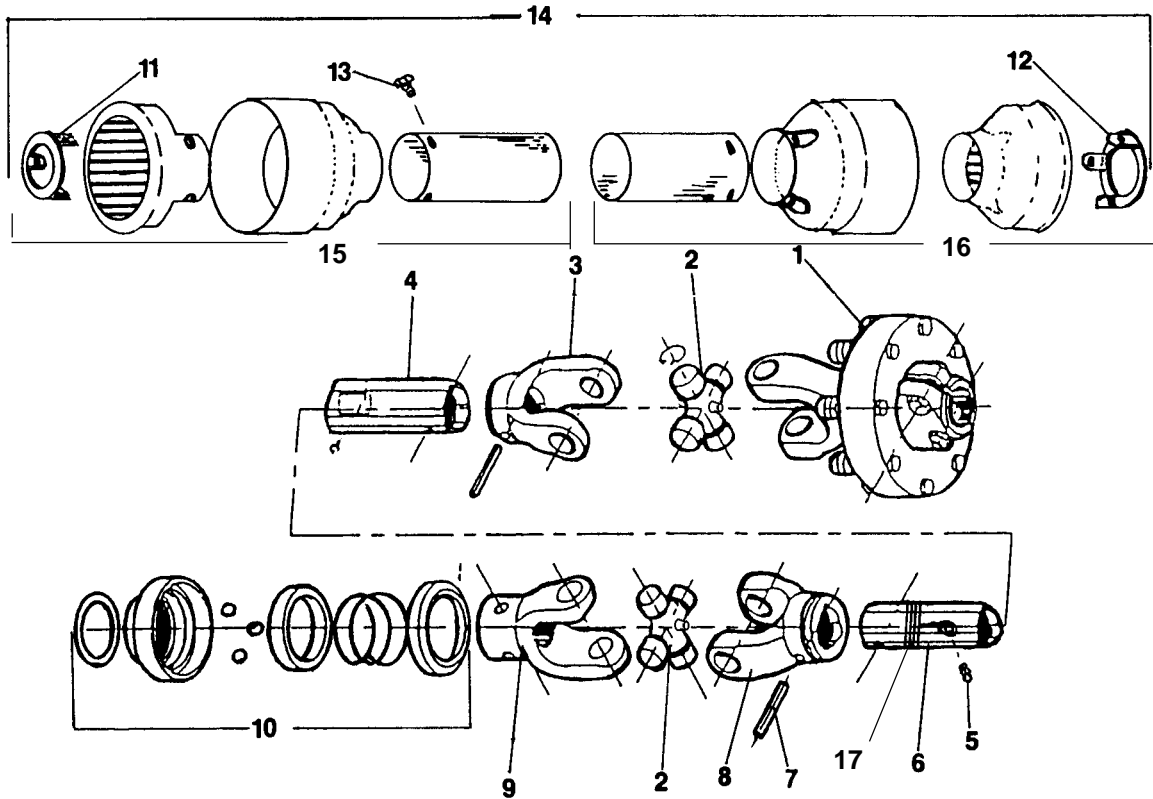
ITEM	PART NO.	QTY	DESCRIPTION
1	8660	1	Hitch Ear
2	8661	1	Hitch Ear
3	02845500	6	Bolt
4	00755153	1	Cotter Key
5	02956948	6	Locknut
6	8103	2	Hitch Brace
7	00748823	4	Bolt
8	8527	1	Upper Hitch Pin - Cat II
9	00001800	4	Locknut TLM 1/2 NC PLC
10	8105	1	A-Frame - RH
11	8121	1	A-Frame - LH
12	8108	2	Hitch Ear Bushing
13	2062H	2	Hitch Pin - Cat II
14	9216	2	Washer
15	8119	1	Top Link Bushing
16	8659	1	Top Link
17	00009500	1	Bolt
18	00752658	1	Bolt
19	00037200	1	Locknut
20	8663	1	Top Link Bushing
21	7518	2	Rear Brace
22	02845500	5	Bolt

SHIELD ASSEMBLY



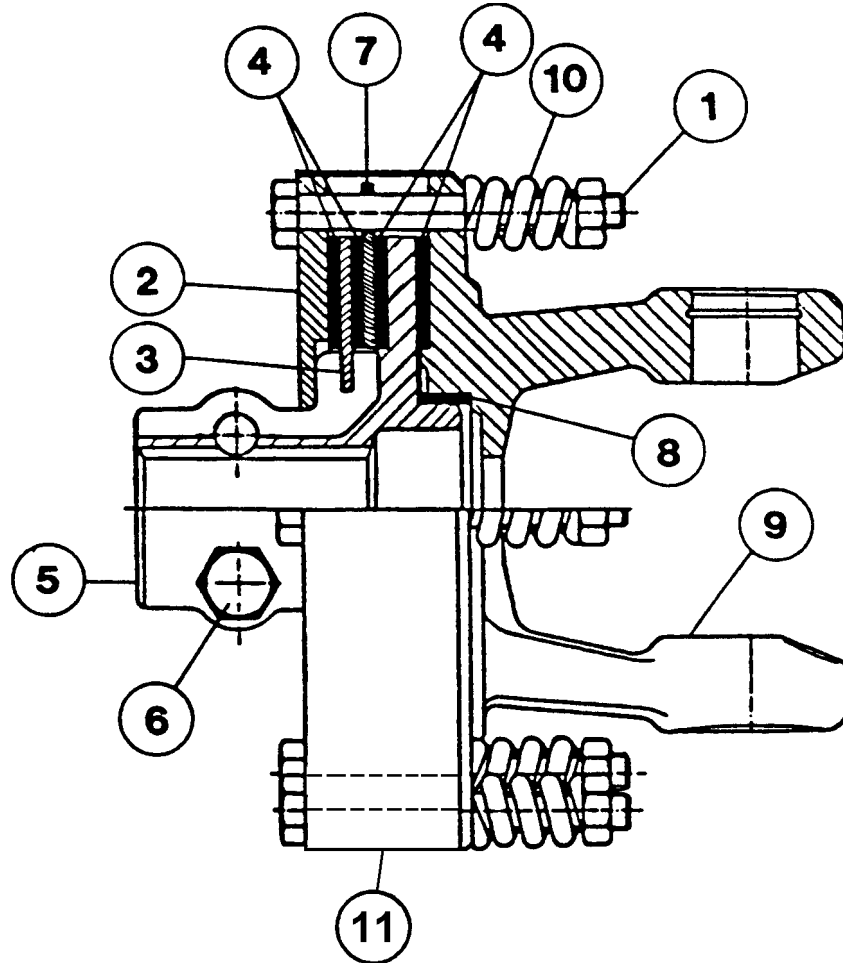
ITEM	PART NO.	QTY	DESCRIPTION
1	7541	1	Shield
2	7540	1	Hood Bracket
3	00002700	1	Washer
4	00001200	1	Nut
5	00011100	2	Flatwasher
7	00764259	1	Chain
8	4405	2	Cotter Pin

DRIVELINE ASSEMBLY P/N 00761329



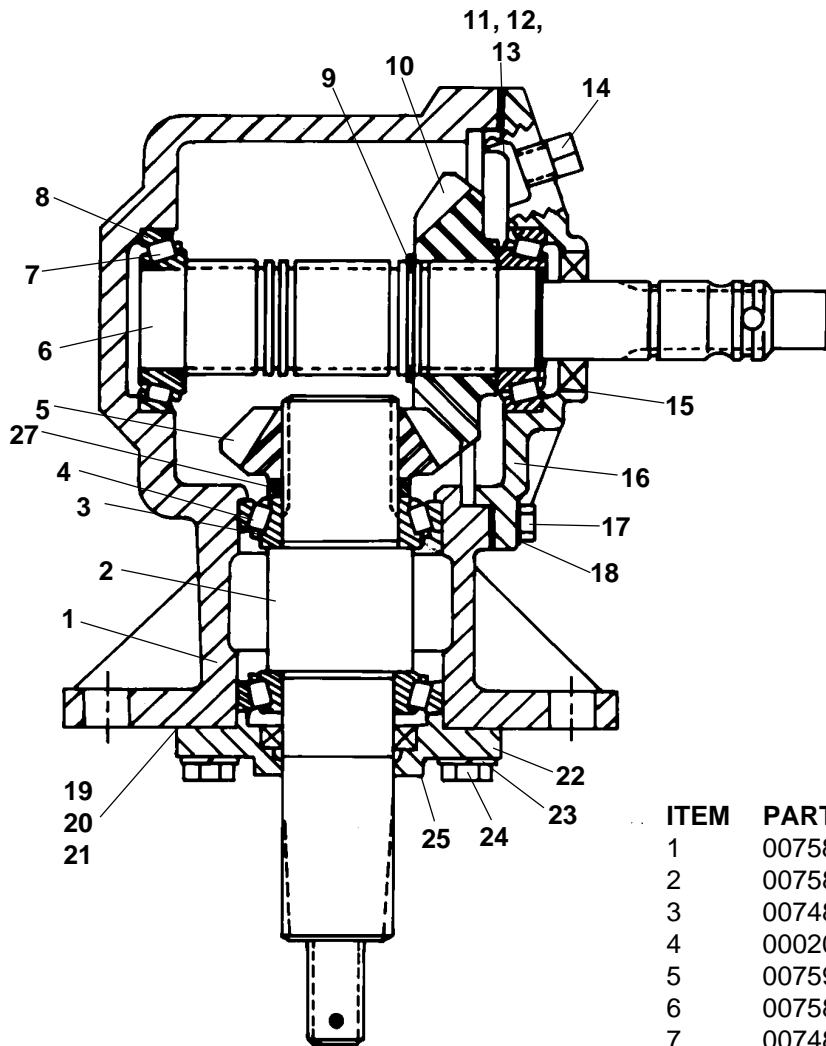
ITEM	PART NO.	QTY	DESCRIPTION
1	00754200	1	Complete Slip Clutch
2	00752896	2	Cross Journal Set
3	00754153	1	Inner Yoke
4	00761212	1	Hardened Inner Tube
5	00754335	1	Grease Fitting
6	00761211	1	Outer Tube
7	00754167	2	Roll Pin
8	00754154	1	Outer Yoke
9	00752883	1	Complete Collar Yoke
10	00757144	1	Collar Kit
11	00754332	1	Locking Collar for Outer Tube
12	00754331	1	Locking Collar for Inner Tube
13	00754330	6	Bolt - Nylon , Safety Shield
14	00761217	1	Complete Shield (Both Halves)
15	00761215	1	Outer Shield Half
16	00761216	1	Inner Shield Half
17	00761075	1	Centering Spring

SLIP CLUTCH P/N 00754200



ITEM	PART NO.	QTY	DESCRIPTION
1	00754199	8	Nut and Bolt
2	00754203	1	Pressure Plate
3	00754201	1	Inner Plate
4	00754202	4	Clutch Lining
5	00754300	1	Clutch Body
6	00752903	2	Bolt and Nut Set
7	00754314	1	Plate with Holes
8	00754301	1	Spacer
9	00754302	1	Yoke
10	00754303	8	Clutch Spring
11	00754304	1	Dirt Shield

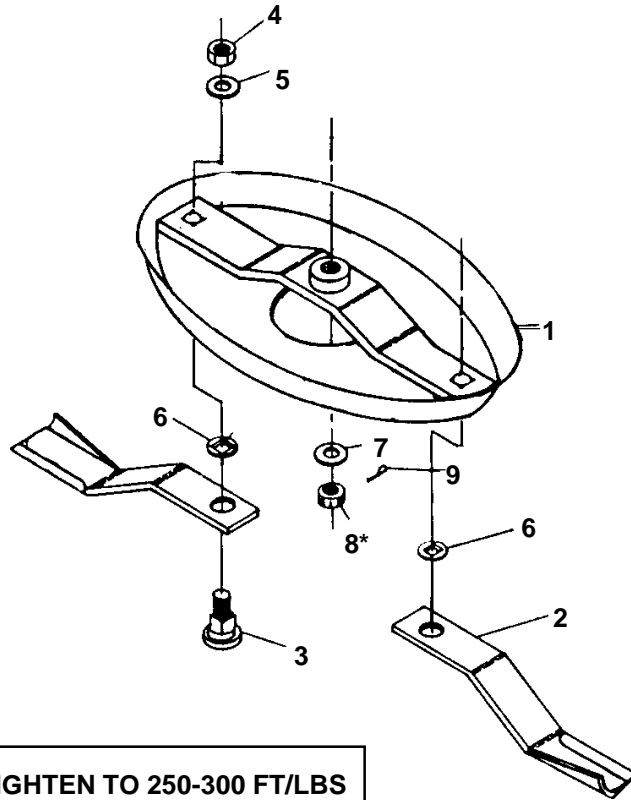
GEARBOX ASSEMBLY P/N 741031M



ITEM	PART NO.	QTY	DESCRIPTION
1	00758989	1	Housing
2	00758990	1	Output Shaft
3	00748522	2	Bearing Cone
4	00020600	2	Bearing Cup
5	00759055	1	Output Gear - 14 Teeth
6	00758991	1	Input Shaft
7	00748527	2	Bearing Cone
8	00748525	2	Bearing Cup
9	00748526	1	Retaining Ring
10	00759054	1	Input Gear - 17 Teeth
11	7010420	AR	Gasket 0.3
12	7010420	AR	Gasket 0.15
13	7010420	AR	Gasket 0.1
14	00753630	2	Pipe Plug
15	00753644	1	Seal
16	741035	1	Input Cap
17	00753642	8	Capscrew
18	00753633	8	Lockwasher
19	00748520	AR	Gasket 0.3
20	00748520	AR	Gasket 0.15
21	00748520	AR	Gasket 0.1
22	00752155	1	Output Cap
23	00753743	4	Lockwasher
24	00748823	4	Capscrew
25	00753634	1	Seal
26	00753631	1	Pipe Plug (Not Shown)
27	00759053	1	Spacer

AR - As Required

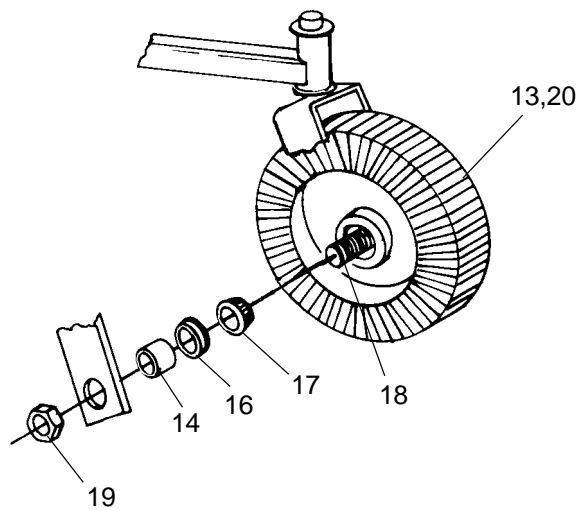
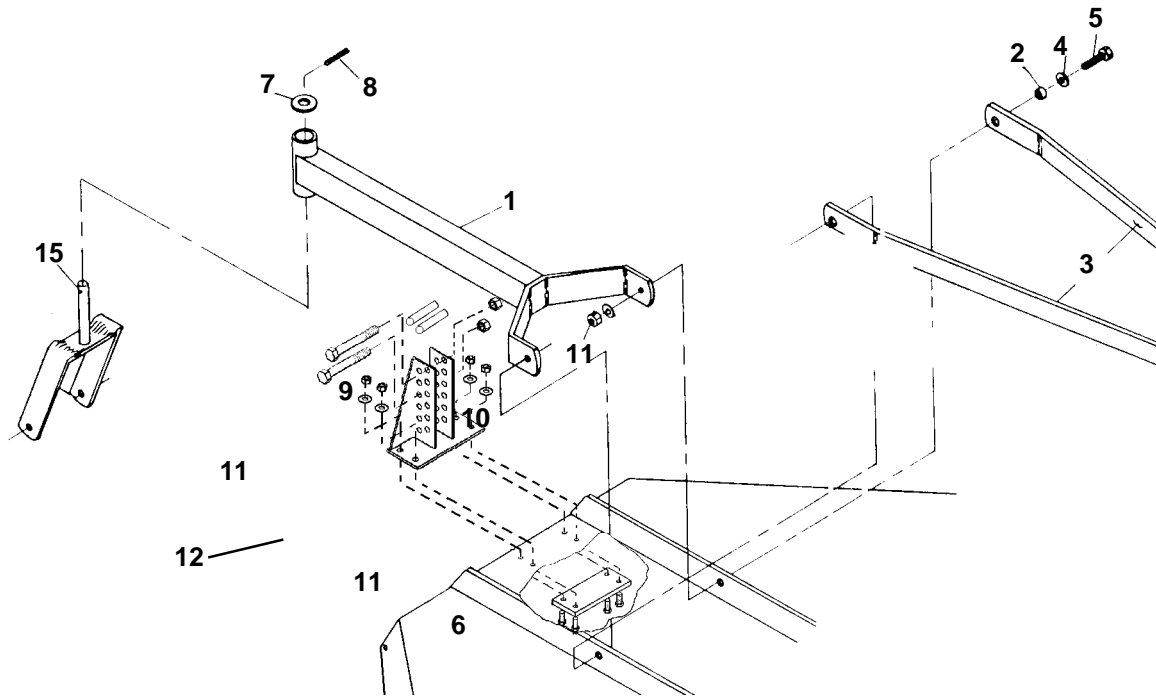
BLADE CARRIER ASSEMBLY



***TIGHTEN TO 250-300 FT/LBS**

ITEM	PART NO.	QTY	DESCRIPTION
1	7515	1	Dishpan
2	7520	1 pr.	Blades
3	8251	2	Blade Bolt Service Kit
4	5JRC16140	2	Locknut
5	9216	4	Washer
6	00758579	2	Blade Washer
7	6192	1	Washer - Hub
8	00606100	1	Slotted Nut
9	00606000	1	Cotter Key
	8264	1	Blade Bolt Kit (Includes items #3 & #4)

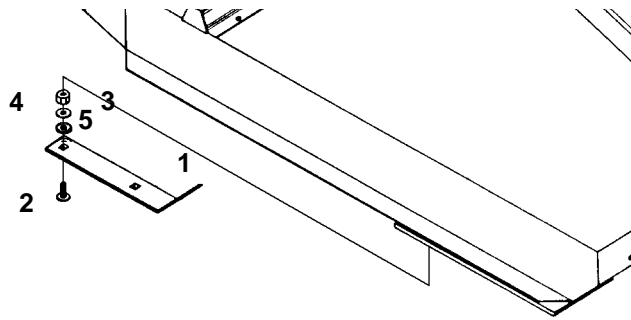
GAUGE WHEEL MAINFRAME ASSEMBLY



GAUGE WHEEL MAINFRAME ASSEMBLY

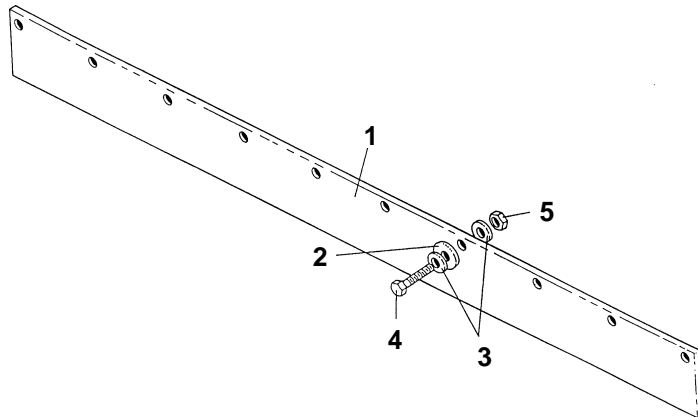
ITEM	PART NO.	QTY	DESCRIPTION
1	7517	1	Gauge Wheel Mainframe
2	8668	2	Rear Brace Bushing
3	7518	2	Rear Brace
4	00001400	2	Flatwasher
5	02845500	2	Bolts
6	02675800	2	Bolt
7	4673	1	Washer
8	4674	1	Spring Pin
9	8666	1	Adjusting Flat Clevis
10	02845800	1	Bolt
11	02956948	5	Locknut
12	8665	2	Adjusting Flat
13	00130010	1	Tire & Wheel Assy.
14	00766361	2	Spacer - Wheel Hub
15	00762747	1	Gauge Wheel Fork
16	0013600	2	Seal
17	00013701	2	Bearing
18	0291030300	1	Spindle Bolt Weldment
19	5JRC16140	1	Locknut
20	00756750	1	Tire & Wheel 4 x 8 w/cups

SKID SHOE ASSEMBLY

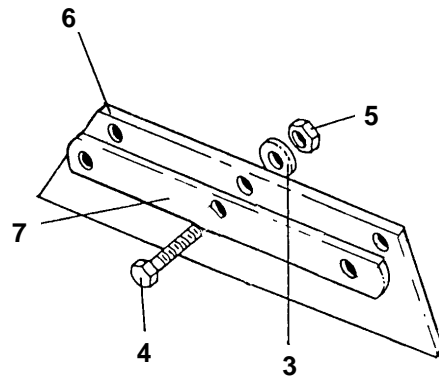
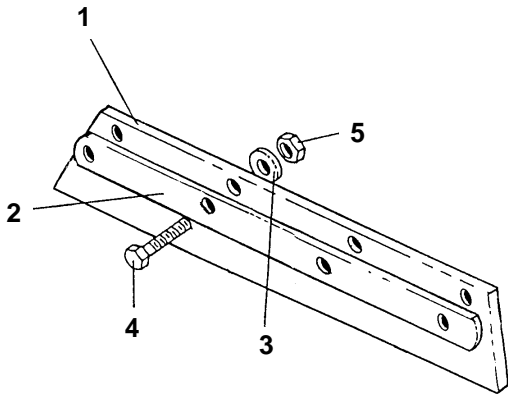


ITEM	PART NO.	QTY	DESCRIPTION
1	8312	2	Skid Shoes
2	8277	6	Plow Bolt
3	03101646	6	Lockwasher
4	00013901	6	Nut
5	00011100	6	Flatwasher

DEFLECTOR ASSEMBLIES

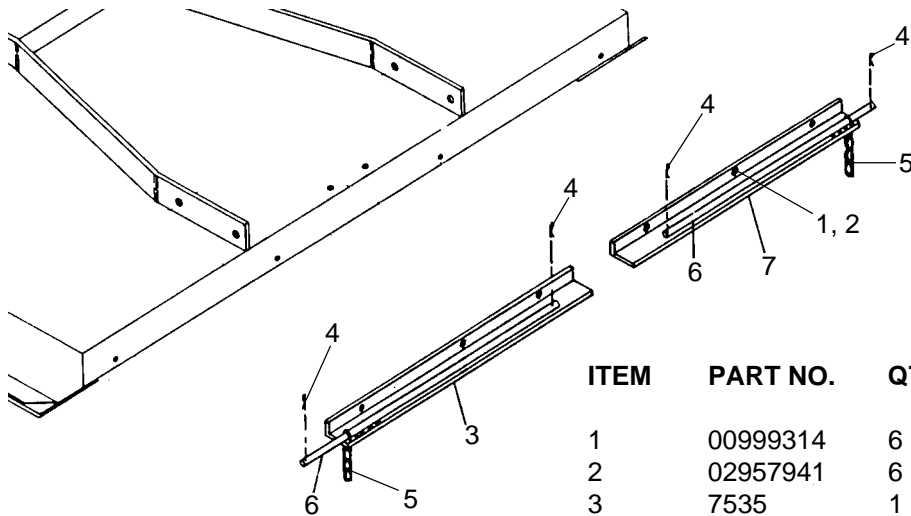


ITEM	PART NO.	QTY	DESCRIPTION
1	00758556	1	Front Deflector
2	02035800	10	Wood Washer
3	00011100	20	Flat Washer
4	00023100	10	Bolt
5	00015800	10	Locknut

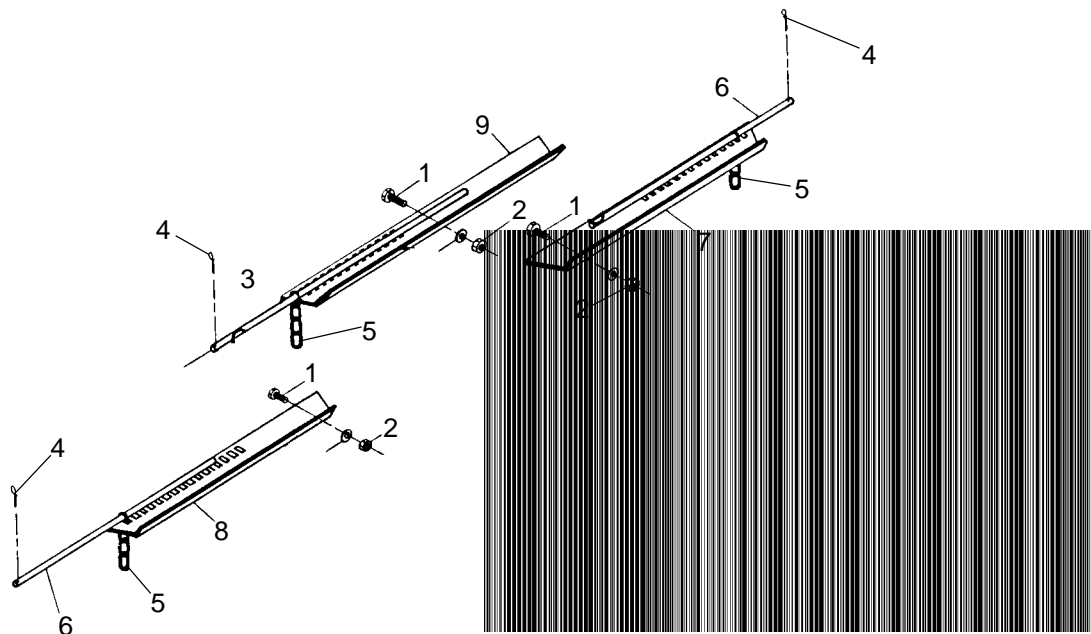


ITEM	PART NO.	QTY	DESCRIPTION
1	00758574	1	Rear Deflector
2	00758576	1	Rear Deflector Bar
3	00011100	10	Flatwasher
4	7196	10	Bolt
5	00015800	10	Locknut
6	00758575	2	Side Deflector
7	00758577	2	Side Deflector Bar

CHAIN GUARD ASSEMBLIES

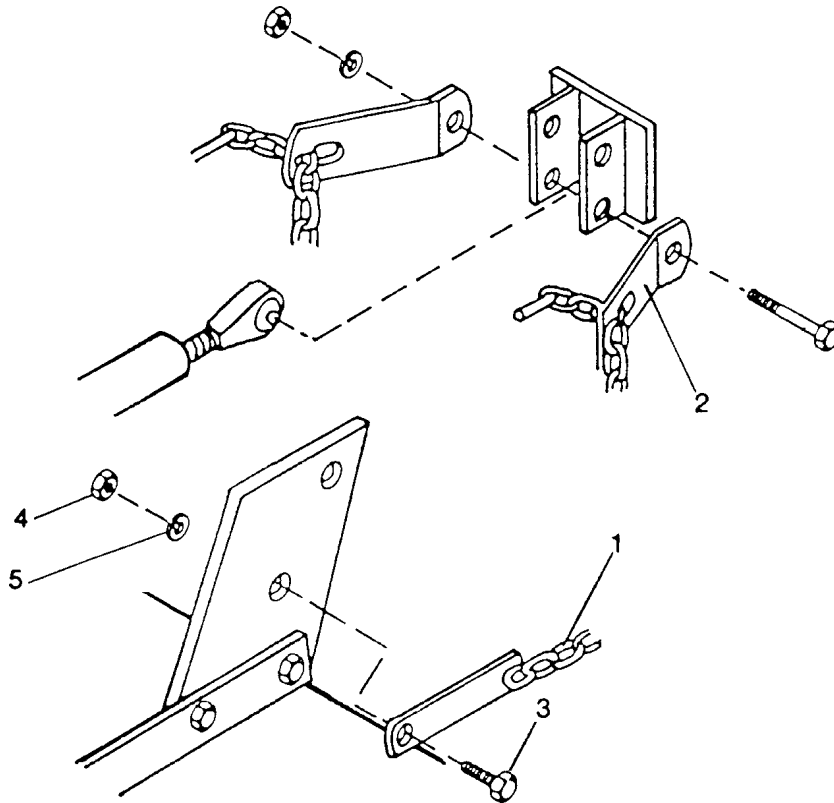


ITEM	PART NO.	QTY	DESCRIPTION
1	00999314	6	Bolt
2	02957941	6	Locknut
3	7535	1	Front Right Bracket
4	2545	4	Cotter Key
5	2413	84	Chain
6	2465	2	Chain Rod
7	7536	1	Front Left Bracket



ITEM	PART NO.	QTY	DESCRIPTION
1	00999314	10	Bolt
2	02957941	10	Locknut
3	2467	1	Chain Rod Center
4	2545	6	Cotter Key
5	1417	103	Chain
6	4499	2	Chain Rod
7	7532	1	Rear Left Bracket
8	7531	1	Rear Right Bracket
9	7530	1	Rear Center Bracket

HYDRAULIC RELIEF ASSEMBLY



ITEM	PART NO.	QTY	DESCRIPTION
1	8710	2	Carrier Chain Adj. Strap
2	8711	2	Chain Assembly
3	02845500	2	Bolt
4	00010400	2	Nut
5	00010300	2	Lockwasher

ALAMO

LIMITED WARRANTY

1. LIMITED WARRANTIES

- 1.01. Alamo warrants for one year from the purchase date to the original non-commercial, governmental, or municipal purchaser ("Purchaser") and warrants for six months to the original commercial or industrial purchaser ("Purchaser") that the goods purchased are free from defects in material or workmanship.
- 1.02. Manufacturer will replace for the Purchaser any part or parts found, upon examination at one of its factories, to be defective under normal use and service due to defects in material or workmanship.
- 1.03. This warranty does not apply to any part of the goods which has been subjected to improper or abnormal use, negligence, alteration, modification, or accident, damaged due to lack of maintenance or use of wrong fuel, oil, or lubricants, or which has served its normal life. This warranty does not apply to any part of any internal combustion engine, or expendable items such as blades, shields, guards, or pneumatic tires except as specifically found in your Operator's Manual.
- 1.04. Except as provided herein, no employee, agent, Dealer, or other person is authorized to give any warranties of any nature on behalf of Manufacturer.

2. REMEDIES AND PROCEDURES.

- 2.01. This warranty is not effective unless the Purchaser returns the Registration and Warranty Form to Manufacturer within 30 days of purchase.
- 2.02. Purchaser claims must be made in writing to the Authorized Dealer ("Dealer") from whom Purchaser purchased the goods or an approved Authorized Dealer ("Dealer") within 30 days after Purchaser learns of the facts on which the claim is based.
- 2.03. Purchaser is responsible for returning the goods in question to the Dealer.
- 2.04. If after examining the goods and/or parts in question, Manufacturer finds them to be defective under normal use and service due to defects in material or workmanship, Manufacturer will:
 - (a) Repair or replace the defective goods or part(s).
 - (b) Reimburse Purchaser for the cost of the part(s) and reasonable labor charges (as determined by Manufacturer) if Purchaser paid for the repair and/or replacement prior to the final determination of applicability of the warranty by Manufacturer.
 - (c) The choice of remedy shall belong to Alamo.
- 2.05. Purchaser is responsible for any labor charges exceeding a reasonable amount as determined by Manufacturer and for returning the goods to the Dealer, whether or not the claim is approved. Purchaser is responsible for the transportation cost for the goods or part(s) from the Dealer to the designated factory.

3. LIMITATION OF LIABILITY.

- 3.01. MANUFACTURER DISCLAIMS ANY EXPRESS (EXCEPT AS SET FORTH HEREIN) AND IMPLIED WARRANTIES WITH RESPECT TO THE GOODS INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- 3.02. MANUFACTURER MAKES NO WARRANTY AS TO THE DESIGN, CAPABILITY, CAPACITY, OR SUITABILITY FOR USE OF THE GOODS.
- 3.03. EXCEPT AS PROVIDED HEREIN, MANUFACTURER SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO PURCHASER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS, OR DAMAGE CAUSED OR ALLEGED TO BE CAUSED DIRECTLY OR INDIRECTLY BY THE GOODS INCLUDING, BUT NOT LIMITED TO, ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES RESULTING FROM THE USE OR OPERATION OF THE GOODS OR ANY BREACH OF THIS WARRANTY. NOTWITHSTANDING THE ABOVE LIMITATIONS AND WARRANTIES, MANUFACTURER'S LIABILITY HEREUNDER FOR DAMAGES INCURRED BY PURCHASER OR OTHERS SHALL NOT EXCEED THE PRICE OF THE GOODS.
- 3.04. NO ACTION ARISING OUT OF ANY CLAIMED BREACH OF THIS WARRANTY OR TRANSACTIONS UNDER THIS WARRANTY MAY BE BROUGHT MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION HAS OCCURRED.

4. MISCELLANEOUS.

- 4.01. The laws of the State of Texas shall govern the construction of this agreement. Venue for any lawsuits shall be in Guadalupe County, Texas.
- 4.02. Manufacturer may waive compliance with any of the terms of this limited warranty, but no waiver of any terms shall be deemed to be a waiver of any other term.
- 4.03. If any provision of this limited warranty shall violate any applicable law and is held to be unenforceable, then the invalidity of such provision shall not invalidate any other provisions herein.

KEEP FOR YOUR RECORDS

ATTENTION: Purchaser should fill in the blanks below for his reference when buying repair parts and/or for proper machine identification when applying for warranty.

Alamo Implement Model _____ Serial Number _____

Date Purchased _____ Dealer _____

ATTENTION:
READ YOUR OPERATOR'S MANUAL

ALAMO
An Alamo Group Company
Post Office Drawer 549
Seguin, Texas 78156
830-379-1480





In addition to the standard Limited Warranty, Alamo Group provides one year (12 months), (6 months for Commercial/Industrial Users) Limited Warranty on the Driveline components provided that these components have been properly maintained and lubricated that and have not been subjected to abused or mis-use

In addition to the standard Limited Warranty shown on the preceding page, Alamo Group provides **A THREE YEAR LIMITED WARRANTY** on **GEARBOX** components* provided that these components have been properly maintained and lubricated and have not been subjected to abuse or mis-use

*One year for Seals (After on year, (six months for Industrial/Commercial use) seals are considered to be REPLACEMENT PARTS and replacement is the users' responsibility.)

* Users' Gearboxes my be rebuilt by Alamo Group or replaced by new or rebuilt Gearboxes at the option of Alamo Group.

NOTE: "Failure to Maintain" also includes failure to adjust Slip Clutches correctly to provide proper protection for Driveline and Gearbox components.

NOTE: "Failure to Maintain" specifically includes running Gearboxes without proper lubrication and "burning up" the components.

TO THE OWNER/OPERATOR/DEALER

To keep your implement running efficiently and safely, read your manual thoroughly and follow these directions and the Safety Messages in this Manual. The Table of Contents clearly identifies each section where you can easily find the information you need.

The OCCUPATIONAL SAFETY AND HEALTH ACT (1928.51 Subpart C) makes these minimum safety requirements of tractor operators:

REQUIRED OF THE OWNER:

1. Provide a Roll-Over-Protective Structure that meets the requirements of this Standard; and
2. Provide Seatbelts that meet the requirements of this paragraph of this Standard and SAE J4C; and
3. Ensure that each employee uses such Seatbelt while the tractor is moving; and
4. Ensure that each employee tightens the Seatbelt sufficiently to confine the employee to the protected area provided by the ROPS.

REQUIRED OF THE OPERATOR

1. Securely fasten seatbelt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going - especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the tractor smoothly - no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by the tractor manufacturer.
9. When the tractor is stopped, set brakes securely and use park lock, if available.



Keep children away from danger all day, every day...



Equip tractors with rollover protection (ROPS) and keep all machinery guards in place...



Please work, drive, play and live each day with care and concern for your safety and that of your family and fellow citizens.

