



# Land Leveler

## Operation and Maintenance Manual



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## Contents

<b>INTRODUCTION .....</b>	<b>2</b>
To the Purchaser .....	2
Illustrations.....	2
Direction Reference .....	2
Serial Plate .....	2
<b>SAFETY PRECAUTIONS.....</b>	<b>3</b>
Before Operation .....	4
Children.....	4
Notice.....	4
Safety Precautions – Land Leveler .....	4
<b>LAND LEVELER OPERATION .....</b>	<b>4</b>
<b>THE SKID STEER .....</b>	<b>5</b>
General Information .....	5
Operating the Skid Steer.....	5
During Operation .....	6
Roll-Over Protective Structure (ROPS) During Operation.....	6
<b>MAINTENANCE .....</b>	<b>7</b>
<b>TRANSPORTING .....</b>	<b>7</b>
<b>STORAGE .....</b>	<b>8</b>
<b>OPERATION .....</b>	<b>8</b>
General Preparation .....	8
Engine Speed .....	8
Engaging the Drive Mechanism .....	8
<b>LAND LEVELER PARTS .....</b>	<b>8</b>
Introduction.....	8
Land Leveler Assembly – Detailed Parts Diagram A .....	9
Land Leveler Assembly - Parts List A .....	9
Land Leveler Warning Decals – Parts List A.....	10
<b>TORQUE SPECIFICATION TABLE .....</b>	<b>10</b>
General Specification Table.....	10
<b>ACCESSORIES UNLIMITED WARRANTY .....</b>	<b>11</b>

## INTRODUCTION

### To the Purchaser

All products are designed to give safe, dependable service if they are operated and maintained according to instructions. Read and understand this manual before operation.

This manual has been prepared to assist the owner and operators in the safe operation and suitable maintenance of the equipment. The information was applicable to products at the time of manufacture and does not include modifications made afterwards.

Read and understand this operator's manual before attempting to put equipment into service. Familiarize yourself with the operating instructions and all the safety recommendations contained in this manual and those labeled on the equipment and on the skid steer. Follow the safety recommendations and make sure that those with whom you work follow them.

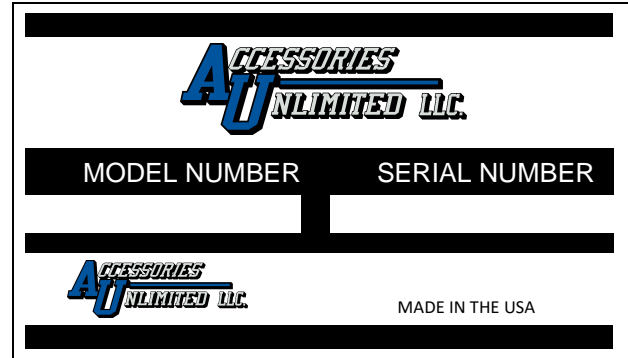
### Illustrations

The illustrations may not necessarily reproduce the full detail and the exact shape of the parts or depict the actual models but are intended for reference only.

### Direction Reference

All references to right and left, forward or rearward, are from the operator's seat, facing the steering wheel.

### Serial Plate



To assist your dealer in handling your needs, please record hereafter the model number and the serial number of your equipment and skid steer. It is also advisable to supply them to your insurance company. It will be helpful in the event that an equipment or skid steer is lost or stolen.

**SKID STEER**

**IMPLEMENT**

MODEL: \_\_\_\_\_

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

DATE OF PURCHASE: \_\_\_\_\_

DEALER NAME: \_\_\_\_\_

**SAFETY PRECAUTIONS**



**SAFETY FIRST**

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.



**DANGER:** Indicates an immediate hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING:** Indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury.



**CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**IMPORTANT:** Indicates that equipment or property damage could result if instructions are not followed.

**NOTE:** Gives helpful information.

All products are designed to give safe, dependable service if they are operated and maintained according to instructions. **Read and understand this manual before operation.** It is the owner's responsibility to be certain anyone operating this product reads this manual, and all other applicable manuals to become familiar with this equipment and all safety precautions. Failure to do so could result in serious personal injury or equipment damage. If you have any questions, consult your dealer.

## **Before Operation**

### **Children**

Tragic accidents can occur if the operator is not alert to the presence of children. Children are generally attracted to machines and work being done. Never assume children will remain where you last saw them.

1. Keep children out of the operating area and under the watchful eye of another responsible adult.
2. Be alert and turn machine off if children enter the work area.
3. Before and when backing, look behind for small children, use care when approaching blind corners.
4. Never carry children while operating the machine. They may fall off and be seriously injured or interfere with the safe operation of the machine.
5. Never allow children to play on the machine or attachment even when they are turned off.
6. Never allow children to operate the machine even under adult supervision.

### **Notice**

A safe operator is the best assurance against accidents. All operators, no matter how experienced they may be, should read this operator's manual and all other related manuals before attempting to operate the equipment. Please read the following section and pay particular attention to all safety recommendations contained in this manual and those labeled on the equipment and on the skid steer.

## **Safety Precautions – Land Leveler**

1. Read and understand this operator's manual and skid steer operator's manual. Know how to operate all controls and how to stop the unit and disengage the controls quickly.
2. Never wear loose, torn, or bulky clothing around the skid steer and the dozer blade. It may catch on moving parts or controls, causing injury.
3. Before and during use, thoroughly inspect the area where the equipment is to be used and remove all objects that may cause damage to the equipment.
4. Set transmission to neutral and disengage clutch, if equipped, before starting the engine.
5. Do not operate equipment without protective clothing.
6. Never attempt to make any adjustments while engine is running. Read this manual carefully to acquaint yourself with the equipment as well as the skid steer operator's manual. Working with unfamiliar equipment can lead to accidents. Be thoroughly familiar with the controls and proper use of the equipment.
7. Keep all safety guards in place and verify hardware for proper tightening.
8. Check for moving parts excessive wear regularly. Replace worn parts with genuine parts.
9. Replace all missing, illegible, or damaged safety and warning decals. See list of decals in operator's manual.
10. Keep safety decals clean of dirt and grime.
11. Do not modify or alter this equipment or any of its components, any equipment or any of its components or any equipment function without first consulting your dealer.
12. Use of counterweights is recommended. Weights provide the necessary balance to improve stability, traction and steering. Use only those recommended by your dealer.

## **LAND LEVELER OPERATION**

1. Before leaving the skid steer unattended, take all possible precautions. Park the skid steer/land leveler on level ground, place the transmission in neutral, set the parking brake, disengage the Aux hydraulics, lower the equipment to the ground, place all levers including auxiliary control levers in neutral, shut off the engine and remove the ignition key.
2. Prior to operation mark all curbs, pipes, etc. that cannot be moved.
3. Be sure the Aux hydraulics switch/lever is in OFF position before starting engine.

4. Exercise extreme caution when operating on or crossing a gravel drive, walks, or roads. Stay alert for hidden hazards or traffic.
5. Do not carry passengers.
6. Keep clear of moving parts.
7. Park the skid steer/land leveler on level ground, place the transmission in neutral, set the parking brake, disengage the Aux hydraulics, lower the equipment to the ground, place all control levers in neutral, shut off the engine, remove the ignition key and allow the moving parts to stop BEFORE and making any repairs, adjustments or inspections.
8. If the land leveler starts to vibrate abnormally, disengage the Aux hydraulics, stop the engine immediately and check for cause. Excessive vibration is generally a sign of trouble.
9. Do not run the engine indoors except when starting engine and transporting attachment in or out of building. Carbon monoxide gas is colorless, odorless and deadly.
10. Do not attempt to operate on steep slopes. If operating on slopes is necessary, exercise extreme caution when changing direction.
11. Never operate land leveler without safety protective devices in place.
12. Never operate machine at high transport speeds on a slippery surface.
13. Use extra caution when backing up.
14. Never operate the land leveler without good visibility and lighting.
15. Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing device such as earmuffs or earplugs to protect against objectionable or uncomfortable noises.
16. Never allow anyone near the work area.

## **THE SKID STEER**

### **General Information**

1. Read the operator's manual carefully before using skid steer. Lack of operating knowledge can lead to accidents.
2. Do not permit anyone but the operator to ride on the skid steer. There is no safe place for passengers.

### **Operating the Skid Steer**

1. Never run the skid steer engine in a closed building without adequate ventilation, as the exhaust fumes are very dangerous.
2. Adopt safe driving practice: Keep the parking brake on at all times during transportation.
3. Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure.
4. Reduce speed prior to turns to avoid the risk of overturning. Keep speed to a minimum.
5. Always keep the skid steer in gear to provide engine braking when going downhill. Do not coast.
6. Never allow an open flame near the fuel tank or battery.
7. Make sure the proper shields are installed when using the equipment and always replace the shields if damaged.
8. Park the skid steer/land leveler on level ground, place the transmission in neutral, set the parking brake, disengage the Aux hydraulics, lower the equipment to the ground, place all levers including auxiliary control levers in neutral, shut off the engine and remove the ignition key BEFORE leaving the skid steer.
9. Never park or operate the skid steer on a steep slope. Avoid sudden uphill turns on steep slopes.
10. Use of counterweights for better traction and stability is recommended.
11. Handle fuel with care, as it is highly flammable.
12. Use approved fuel container, never add fuel to running engine or a hot engine.
13. Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors. Replace fuel cap securely and wipe up spilled fuel.

14. Never allow anyone to operate the land leveler until they have read the manual completely and are thoroughly familiar with basic skid steer and land leveler operation.
15. Make sure the skid steer is counterweighted as recommended by your dealer. Weights provide the necessary balance to improve stability, traction and steering.
16. Always make sure all land leveler components are properly installed and securely fastened BEFORE operation.
17. Always start the engine from the operator's seat with all the transmission lever(s) and land leveler drive lever in neutral.
18. DO NOT bypass the safety system by shorting across the terminals of the starter motor to start the engine. This may cause the skid steer to move suddenly.
19. If the safety start system does not work, consult your dealer immediately.

## **During Operation**

1. Do not allow passengers on the skid steer/land leveler at any time. There is no safe place for passengers on the equipment. The operator MUST sit in the skid steer seat.
2. Eye and hearing protection is recommended when operating the land leveler.
3. Operate only during daylight hours, or when the area is well lit with bright artificial light.
4. Park the skid steer/land leveler on level ground, place the transmission in neutral, set the parking brake, disengage the Aux hydraulics, lower the equipment to the ground, place all control levers in neutral, shut off the engine and remove the ignition key BEFORE leaving the operator's seat.
5. Inspect the land leveler after striking any foreign object to assure that all land leveler parts are safe and secure and not damaged.
6. Be especially observant of the operating area and terrain. Watch for holes, rocks, or other hidden hazards. ALWAYS inspect the area prior to using the land leveler.
7. DO NOT use the land leveler near the edge of drop-offs or banks.
8. DO NOT use the land leveler on steep slopes as overturn may result.
9. Operate up and down (not across) intermediate slopes. Avoid sudden starts and stops.
10. Drive skid steer backwards up steeper slopes.
11. Slow down before you change directions on any slope.
12. Use wheel weights on your skid steer to increase stability on slopes.
13. Never stand alongside of the unit while the engine is running.

## **Roll-Over Protective Structure (ROPS) During Operation**

1. DO NOT weld, drill or alter the ROPS. Damaged ROPS must not be straightened or used. If damage does occur, consult your dealer.
2. If ROPS is lowered or removed from the skid steer for any reason, it must be erected and/or refitted immediately. Original bolts or equivalent replacements must be used and tightened to the correct torque.
3. Your dealer does not recommend usage of skid steer with ROPS removed.
4. Seat belt usage: With ROPS installed on the skid steer it is imperative that the seat belt be installed, used and correctly adjusted, at all times. DO NOT use a seat belt if operating without ROPS.
5. Keep all shields and covers in place. All skid steer and equipment shields and covers must be correctly installed at all times. When necessary to remove these, they must be reinstalled immediately.
6. Keep clear of all rotating driveline components. Be especially observant of implement areas of discharge, intake or other mechanical motion.
7. Securely lock equipment drive shaft. Check that all skid steer and equipment drivelines are in good working order.
8. Additional safety equipment: A fire extinguisher and first aid kit should be kept readily accessible.

## MAINTENANCE

***Always use genuine parts when replacement parts are required during operation.***

1. Keep the skid steer and land leveler properly maintained.
2. Park the skid steer/land leveler on level ground, place the transmission in neutral, set the parking brake, disengage the Aux hydraulics, lower the equipment to the ground, place all control levers in neutral, shut off the engine and remove the ignition key and allow the rotating parts to stop BEFORE making any land leveler adjustments.
3. To avoid injury, do not adjust or service the land leveler with the skid steer engine running. Make sure moving components have completely stopped before leaving the operator's seat.
4. Keep the skid steer/land leveler clean.
5. Always wear eye protection when cleaning or servicing the land leveler.
6. Service the unit in safety: DO NOT service the skid steer while the engine is running or hot, or if the unit is in motion. Always lower land leveler to the ground. If necessary, to service unit with land leveler raised, securely support with stands or suitable blocking before working underneath. Do not rely on hydraulically supported devices for your safety. They can settle suddenly, leak down, or be accidentally lowered.
7. Do not attempt to service machine, clear obstructions or unplug blockages with the engine running. Always shut off engine and allow all motion to cease.
8. The manufacturer will not claim responsibility for fitment of unapproved parts and/or accessories and any damages as a result of their use.
9. Make sure all shields and guards are securely in place following all service, cleaning, or repair work.
10. Do not modify or alter this equipment or any of its components or operating functions. If you have any questions concerning modifications, consult with your dealer.
11. Do not operate a unit which is defective or has missing parts. Make sure that all recommended maintenance procedures are completed before operating the unit.
12. Check all controls regularly and adjust where necessary.
13. Periodically check all nuts and bolts for tightness, especially wheel hub and rim nuts. Make sure all non-rotating pins are secured properly.
14. Check hydraulic cylinders and hoses for damage or leaks. To avoid serious personal injury: Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injuries. Do not use your hands to check for leaks. Use a piece of cardboard or paper to search for leaks.
15. Stop engine and relieve pressure before connecting lines. Tighten all connections before starting engine or pressurizing lines.
16. The optional scarifier is to be greased after 8 hours of use.

## TRANSPORTING

1. Transporting on public roadway: When driving the skid steer and equipment on the road or highway under 25 mph, at night or during the day, use flashing amber warning lights and the Slow-Moving Vehicle ("SMV") identification emblem.
2. Check local traffic codes that may apply to unit usage on public roads and highways in your area. The use of flashing amber lights is acceptable in most localities. However, some localities may prohibit their use.
3. Always disengage equipment drive prior to transporting unit.



## STORAGE

***Before storing the land leveler, certain precautions should be taken to protect it from deterioration.***

1. Clean the land leveler throughout.
2. Make all the necessary repairs.
3. Replace all safety signs that are damaged, lost, or otherwise become illegible. If a part to be replaced has a sign on it, obtain a new safety sign from your dealer and install it in the same place as on the removed part.
4. Repaint all parts from which paint has worn or peeled.
5. When the land leveler is dry, oil all moving parts. Apply oil liberally to all surfaces to protect against rust.
6. Store in a dry place

## OPERATION

### General Preparation

1. Read the operator's manual carefully before using the skid steer and land leveler. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Wear appropriate outer garments while operating the equipment.
3. Make sure the blade can operate freely.
4. Before engaging the land leveler, always have the engine running at idle.

### Engine Speed

1. Start the skid steer engine. Let the engine warm up at least one minute before engaging the drive mechanism then increase speed gradually.
2. Make sure the land leveler is properly positioned and engage the drive mechanism.
3. Adjust the ground speed according to conditions.

### Engaging the Drive Mechanism

Refer to the skid steer's operating manual for instructions.

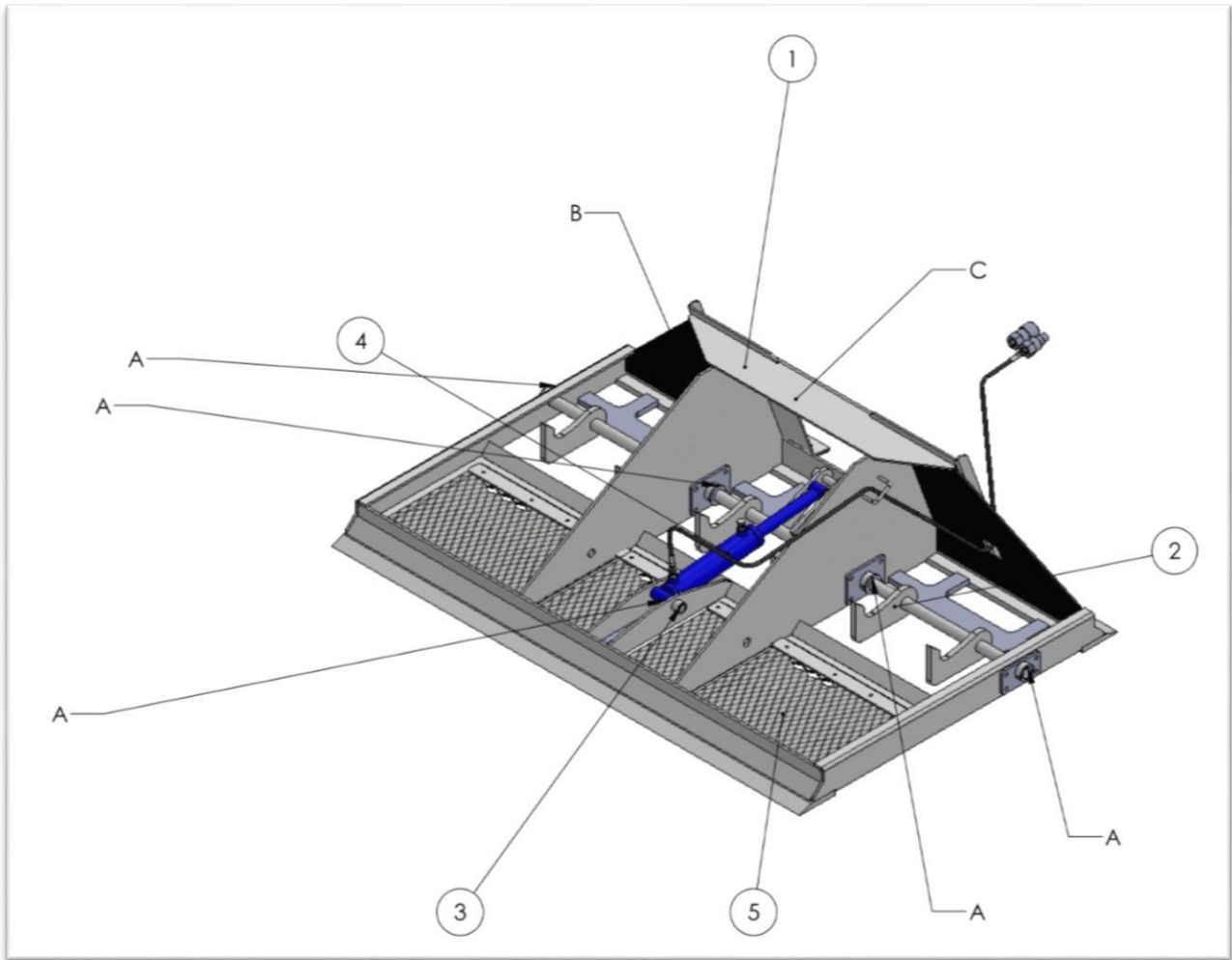
## LAND LEVELER PARTS

### Introduction

All parts are illustrated in "exploded views" which show the individual parts in the normal relationship to each other. Reference numbers are used in the illustrations. These numbers correspond to those in the "Item No." column and are followed by the description and quantity required.

The manufacturer reserves the right to change, modify, or eliminate from time to time, for technical or other reasons, certain or all data, specifications, or the product or products themselves, without any liability or obligation.

### Land Leveler Assembly – Detailed Parts Diagram A



### Land Leveler Assembly - Parts List A

Item No.	Part Number	Description	QTY.
1	650-01-0001-78	78" Land Leveler	1
1	650-01-0001-84	84" Land Leveler	1
2	AU-02-1302-78	78" Scarifier Tooth Assembly - Optional	1
2	AU-02-1302-84	84" Scarifier Tooth Assembly - Optional	1
3	AU-03-1427	Pin - Optional	2
4	657-02-0010	Cylinder - Optional	1

5	650-02-0002-78	78" Screen Kit - Optional	1
5	650-02-0002-84	84" Screen Kit - Optional	1
6	H250-FT1108	8MOR-4FPX STR	2
7	650-02-0005	1/4" X 104" OAL Hose - Optional	1
8	650-02-0006	1/4" X 114" OAL Hose - Optional	1
9	H250-FT1612	Fitting	2
10	612-3-0070	Female Quick Coupler	1
11	612-3-0071	Male Quick Coupler	1

### Land Leveler Warning Decals – Parts List A

Decal	Part Number	Description	QTY.
A	Decals-3-0019	Grease Daily - Optional	6
B	Decals-3-0080	Serial Number	1
C	Decals-3-0005	Skid Pro Logo	1

## TORQUE SPECIFICATION TABLE

### General Specification Table

Use the following torques when special torques are not given. Note: These values apply to fasteners as received from supplier, when dry. These values do not apply if lubricants are used.

BOLT SIZES (SAE)	TORQUE	
	POUNDS-FOOT (NC Threads) Grade 5 / Grade 8	POUNDS-FOOT (NF Threads) Grade 5 / Grade 8
1/4	7/11	9/13
5/16	15/22	17/24
3/8	30/40	35/45
7/16	45/65	50/70
1/2	70/95	75/110
9/16	100/140	110/155
5/8	135/190	155/215
3/4	240/340	270/380
7/8	360/550	390/610

1	530/820	590/890
1 1/8	800/1440	880/1500
1 1/4	1240/2000	1364/2200
1 3/8	1680/2720	1848/2800
1 1/2	2200/3500	2420/3600

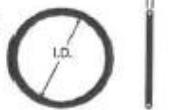
BOLT SIZES (METRIC)	TORQUE	
	MILLIMETERS	POUNDS-FOOT
M6	10	13
M8	22	30
M10	40	54
M12	59	80
M14	93	126
M16	130	176
M18	168	228
M20	205	278

### SAE O-Ring

SAE - Straight Thread Port O-Ring

Specify size and compound

Example: 3-906 NBR (standard NBR)



TUBE FITTING PART #	DASH SIZE	END SIZE	I.D. (in.)	W (in.)	Material		
					NBR*	VD894**	N0756***
3-902	2	1/8	0.24	0.06	•	•	
3-903	3	3/16	0.30	0.06	•	•	
3-904	4	1/4	0.35	0.07	•	•	•
3-905	5	5/16	0.41	0.07	•	•	
3-906	6	3/8	0.47	0.08	•	•	•
3-908	8	1/2	0.64	0.09	•	•	•
3-910	10	5/8	0.76	0.10	•	•	
3-912	12	3/4	0.92	0.12	•	•	
3-914	14	7/8	1.05	0.12	•	•	
3-916	16	1	1.17	0.12	•	•	
3-920	20	1 1/4	1.48	0.12	•	•	
3-924	24	1 1/2	1.72	0.12	•	•	
3-932	32	2	2.34	0.12	•	•	

## **ACCESSORIES UNLIMITED LLC WARRANTY**

Accessories Unlimited LLC warrants to its authorized dealers who in turn warrant to the original owner, that each new Accessories Unlimited LLC attachment will be free from proven defects in material and workmanship for twelve (12) months after delivery by the authorized Accessories Unlimited LLC dealer to the original buyer.

During the warranty period, the authorized Accessories Unlimited LLC dealer shall repair or replace, at Accessories Unlimited LLC's option, without charge for parts and labor, any part of the Accessories Unlimited LLC product which fails because of defects in material or workmanship. The owner shall provide the authorized Accessories Unlimited LLC dealer with prompt written notice of the defect and allow reasonable time for replacement or repair. Accessories Unlimited LLC may, at its option, require failed parts to be returned to the factory. Travel time of mechanics and transportation of the Accessories Unlimited LLC product to the authorized Accessories Unlimited LLC dealer for warranty work are the responsibility of the owner. The remedies provided in this warranty are exclusive.

This warranty does not cover replacement of scheduled service items and high wear items. The owner shall rely solely on the warranty, if any, of the respective manufacturers thereof. This warranty does not cover damages resulting from abuse, accidents, alterations, use of the Accessories Unlimited LLC product as an attachment on any equipment not approved by Accessories Unlimited LLC, air flow obstructions, or failure to maintain or use the Accessories Unlimited LLC product according to the instructions applicable to it.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND CONDITIONS, EXCEPT THE WARRANTY OF TITLE, ACCESSORIES UNLIMITED LLC DISCLAIMS ALL OTHER WARRANTIES AND CONDITIONS, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ACCESSORIES UNLIMITED LLC OR THE AUTHORIZED ACCESSORIES UNLIMITED LLC DEALER BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, LOSS OR INTERRUPTION OF BUSINESS, LOST PROFITS, OR LOSS OF MACHINE USE, WHETHER BASED ON CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY, STATUTE OR OTHERWISE, EVEN IF ACCESSORIES UNLIMITED LLC OR THE AUTHORIZED ACCESSORIES UNLIMITED LLC DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE TOTAL LIABILITY OF ACCESSORIES UNLIMITED LLC AND THE AUTHORIZED ACCESSORIES UNLIMITED LLC DEALERS WITH RESPECT TO THE PRODUCT AND SERVICES FURNISHED HEREUNDER SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT UPON WHICH SUCH LIABILITY IS BASED.



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