



7' BOX BLADE

TRACTOR IMPLEMENT OWNER'S OPERATOR SERVICE MANUAL

For additional information, please see us at
www.badboymowers.com

TO THE DEALER

Assembly, initial lubrication, and verification of proper installation of this product is the responsibility of the Bad Boy Implement dealer. Be familiar with the safety rules and instructions found in this manual. Ensure all items on the Dealer's Pre-Delivery and Delivery Checklists in this manual are completed before releasing the cutter to the new owner. ***This cutter is sent from the factory without gearbox oil in the gearbox, or grease in the tailwheel.***

TO THE OWNER

Note: Anyone who operates your Bad Boy Cutter must first read this owner's manual. Although this cutter has been engineered with safety and reliability as the foremost concerns, there is no substitute for an informed and cautious operator. This manual should be viewed as a part of the equipment itself. If this manual is lost, destroyed, or otherwise rendered unreadable, obtain a duplicate immediately. A duplicate can be obtained online at www.badboycountry.com. As with all machinery, this cutter requires periodic maintenance and should be kept free of debris buildup. Proper care will ensure many years of dependable service. Replacement parts should only be obtained from your Bad Boy Implement dealer or through the website referenced above.

Failure to utilize approved parts can be dangerous and will void the warranty.

LEA EL INSTRUCTIVO!

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

TABLE OF CONTENTS

SPECIFICATIONS.....	4
SAFETY RULES.....	7
GENERAL INFORMATION.....	12
OPERATION.....	12
OWNER SERVICE	17
TROUBLESHOOTING.....	23
PARTS SECTION	24
FASTENER TORQUE CHART.....	30
DEALER'S CHECKLISTS	31
PRODUCT WARRANTY.....	32

SPECIFICATIONS

Category	7' Bad Boy Implement
Sides & Mold Board Thickness	1/4"
Skid Shoes	1/4"
Lift Attachment Brackets	1/2" solid welded
Warranty	1 year limited
Total Width 4',5',6'&7'	883/16"
Overall Height 4',5',6'&7'	37"
Length 4',5',6'&7'	24"
Weight 4',5',6'&7'	510lbs
Blades 4', 5',6'&7'	84"
Tractor Range	80HP Max
3-Point Hitch	Category1- 2

SAFETY RULES/INFORMATION

NOTE: Safety instructions are important! While these instructions may seem lengthy or redundant, they are presented for your safety.

- Safety alerts and symbols will appear throughout the manual to indicate potential hazards. When you see any of these symbols, be aware and read the instructions and or cautions carefully. Accidents can occur when vital information is unknown or ignored.

SAFETY WORDS

- The meaning of the different signal words as defined in this standard may be explained in collateral materials. The following artwork may be used for this purpose.



DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury



WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury



CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury



NOTICE is used to address practices not related to physical injury



Safety instruction (or equivalent) signs indicate specific safety-related instructions or procedures

SAFETY ALERT SYMBOLS



-Indicates the DANGER signal word.



-Indicates the WARNING signal word.



-Indicates the CAUTION signal word.



- Can indicate DANGER, WARNING, or CAUTION signal words

SAFETY RULES



TRAINING

- Almost all accidents arising from the use of equipment such as this that has resulted in injury or death would have been avoided had instructions such as these been adhered to.
- If you do not understand any part of this manual, contact your dealer for assistance.
- Dangerous situations can arise quickly. Know your controls and how to stop the engine and attachment in an emergency. Fractions of a second can be extremely important.
- Do not allow anyone to operate the equipment without first requiring them to read this manual and giving proper instruction.
- Never allow children (< 16 years of age) or untrained persons to operate the equipment.

PREPARATION

- Check that all hardware is properly installed.
- Loose clothing can become caught in moving parts. Entanglement with the rotating PTO shaft is the #1 cause of death and injury with equipment such as this. Always wear relatively tight and belted clothing to reduce this risk.
- Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head. Wear a respirator or filter mask where appropriate.
- Make sure the Implement is properly secured, adjusted, lubricated, and in good operating condition.
- Before starting power unit, check drive-line guards for damage. Do not operate without replacing any damaged guards. Ensure the guards rotate freely on the drive-line. If they do not, repair or replace bearings before operating the cutter.
- Tractor must be equipped with Roll-Over Protective Structure (ROPS) or ROPS cab and seat belt. ALWAYS keep seat belt securely fastened. Falling off the tractor can, and does, result in death. Keep fold-able ROPS system in 'locked up' position at all times.
- Inspect guards before use. Replace if damaged. DO NOT OPERATE the Implement without guards in place.
- Accumulation of debris can present hazards. Remove accumulated debris from the Implement and tractor before use.
- Make sure all safety decals are installed and free from damage. Replace if damaged.

- A minimum of 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, front tractor wheels could raise up resulting in loss of steering. The weight may be attained with front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment, do not estimate.

OPERATION

- Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing the Implement.
- This machine is equipped with front and rear guards. DO NOT operate the machine without the guards in place.
- Never direct discharge toward people, animals, or property.
- Do not operate or transport equipment while under the influence of alcohol or drugs.
- Operate only in daylight or good artificial light.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Always comply with all state and local lighting and marking requirements.
- **NEVER ALLOW RIDERS ON POWER UNIT OR CUTTER!**
- Always sit in the tractor seat when operating controls or starting engine. Securely fasten seat belt, place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting tractor engine.
- Do not operate PTO during transport.
- Look down and to the rear and make sure area is clear of people, animals, property, or foreign objects before operating in reverse. Children often do not understand the severity of the potential danger. A major portion of mower/blade accidents involve children being ran over during reverse operation of the mower/blade.
- Do not operate or transport on steep slopes.
- Do not stop, start, or change directions suddenly on slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Watch for hidden hazards on the terrain during operation.
- Stop tractor unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before operation resumes.
- Leak down or failure of mechanical or hydraulic system can cause equipment to drop.
- Make certain all movement of equipment components has stopped before exiting the tractor.

MAINTENANCE

- Before performing any service or maintenance, disconnect drive-line from tractor PTO.
 - Before working underneath the equipment, disconnect drive-line, raise cutter, and block cutter securely. Hydraulic system leak down and failure of mechanical or hydraulic system can cause equipment to drop.
-
- Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.
 - Keep all persons away from operator control area while performing adjustments, service, or maintenance.
 - Do not modify or alter (or permit anyone else to modify or alter) the equipment or any of its components in any way.
 - Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head.
 - Make certain all movement of equipment components has stopped before approaching for service.
 - Frequently check blades. They should be sharp, free of nicks and cracks, and securely fastened.
 - Do not handle blades with bare hands. Always use gloves. Careless or improper handling may result in serious injury.
 - Your dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous.
 -

CHILDREN



Extremely tragic accidents can, and do, occur if the operator is not continually alert to the presence of children. Children are often attracted to machinery and the operation of machinery. NEVER assume that children will remain where you last saw them.

- Keep children out of the machinery area and under the watchful care of responsible adult other than the operator.
- As this machine is capable of, and used for, removal of relatively tall grass, always be vigilant in monitoring the field ahead. Accidents in which children were obscured by tall grass and not easily seen by the operator have occurred with equipment of this type. The results are often life shattering for all involved. Be constantly aware during operation!
- Immediately turn the equipment off if a child enters the area.
- Never allow children to operate the equipment (<16 years of age).
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your

GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your Implement. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance. These instructions are the product of extensive field experience, engineering data, accident reports, and statistical data. Although some information may be general in nature due to unknown and varying operating conditions, through experience and adherence to these instructions, you should be able to develop sound operating procedures suitable to your particular situation. The illustrations and data used in this manual were current at the time of printing, but due to possible running changes, your machine may vary slightly in detail. Bad Boy Implements reserves the right to redesign and change the machines as necessary without notification. Throughout this manual, references are made to right and left sides of the equipment. These directions are determined by standing behind the equipment.

OPERATION

The operator is responsible for the safe operation of the Implement. The operator must be properly trained. Operators should be familiar with the Implement, the tractor utilized, and all safety practices before starting operation.

ATTACH THE IMPLEMENT TO THE TRACTOR

- Attach tractor 3-point lift arms to the Implement hitch pins and secure.
- Attach tractor top link to Implement clevis. NOTE: You will need to adjust the top link; refer to 'Top Link Adjustment' in the next section.
- Adjust the tractor lower 3-point arm anti-sway devices to prevent Implement from swinging side-to-side during transport.

TOP LINK ADJUSTMENT

- Attach tractor top link to lowest hole provided in the tractor's top link bracket.
- Attach rear portion of tractor top link to the hole on the Implement.
- Raise Implement to transport position and adjust tractor top link until Implement is level in the raised position.
- If you cannot level the Implement using the lowest hole in the tractor's top link bracket, move top link to the next hole and level the cutter.

STORAGE



- Raise Implement with 3-point hitch. Place blocks under Implement. Slowly lower the Implement onto the blocks. Disconnect the Implement from the tractor 3-point hitch and carefully drive tractor away from Implement.
- Before leaving the area, check to ensure the Implement is stable.
- Keep children and bystanders away from the storage area.

PRE-OPERATION CHECKLIST

NOTICE

OWNER/OPERATORS RESPONSIBILITY!

- Review and follow all safety rules (pages 7-11) and machine safety decals.
- Ensure the equipment is properly and securely attached to the tractor.
- Lubricate all grease fitting locations.
- Check that all hardware is properly installed and secured.
- Check that blades are secure, free of cracks.
- If using shields or guards, check that they are properly installed and in good condition. Replace if damaged.
-

OWNER SERVICE

The information in this section is written for operators who possess basic mechanical skills. If you need help, your dealer has trained service technicians available. For your protection, read and follow the safety information in this manual.

WARNING

- **Keep all persons away from operator control while performing adjustments, service, or maintenance.**

CAUTION

- If you do not understand any part of this manual and need assistance, see your dealer.
- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing and head.

BLOCKING METHOD

WARNING

- Before performing any service or maintenance, disconnect driveline from tractor PTO.
- Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any body part underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator's Manual instructions for working underneath and blocking requirements or have work done by a qualified dealer.

NOTICE

To minimize the potential hazards of working underneath the Implement, follow these procedures.

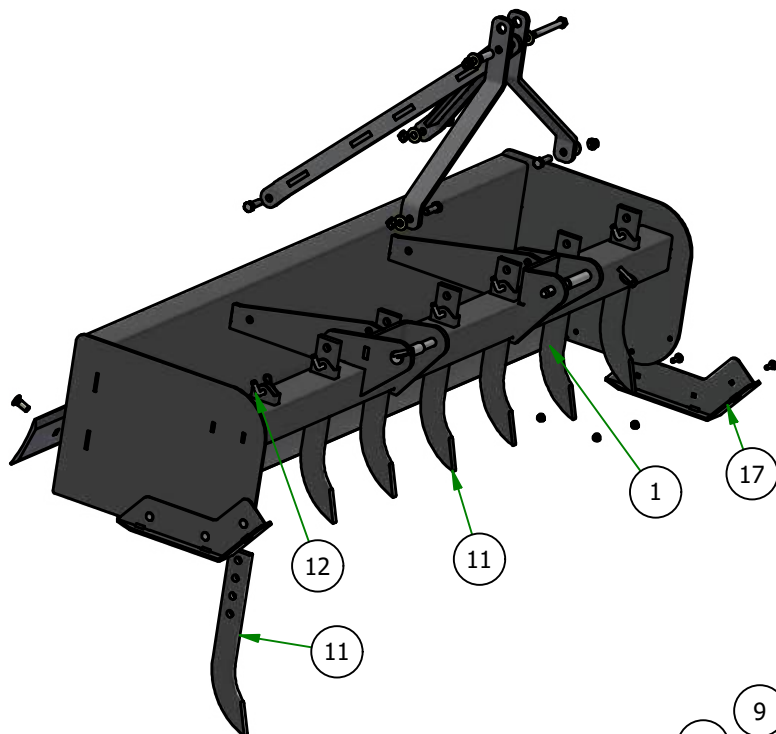
- Jack stands (4) with a load rating of at least 1000 lbs. are the only approved blocking device for this Implement. Install a minimum of four jack stands, one under each corner of the Implement before working underneath the unit. Do not position jack stands under wheels, axles, or wheel supports. Components can rotate and cause the Implement to fall.
- Consider (and check) the overall stability of the blocked unit before working underneath. The working surface must be level and solid to properly support the jack stands while they are supporting the cutter. Make sure the Implement is approximately level.

- With full Implement weight lowered onto jack stands, test the blocking stability carefully, but vigorously, to ensure its stability.
- If Implement is attached to tractor when blocking, set the brakes, remove the key, and block the Implement before working underneath. Also, securely chock the rear tractor wheels (both in front and behind) and tighten the tractor's lower 3-point arm anti-sway mechanism to prevent side-to-side movement.

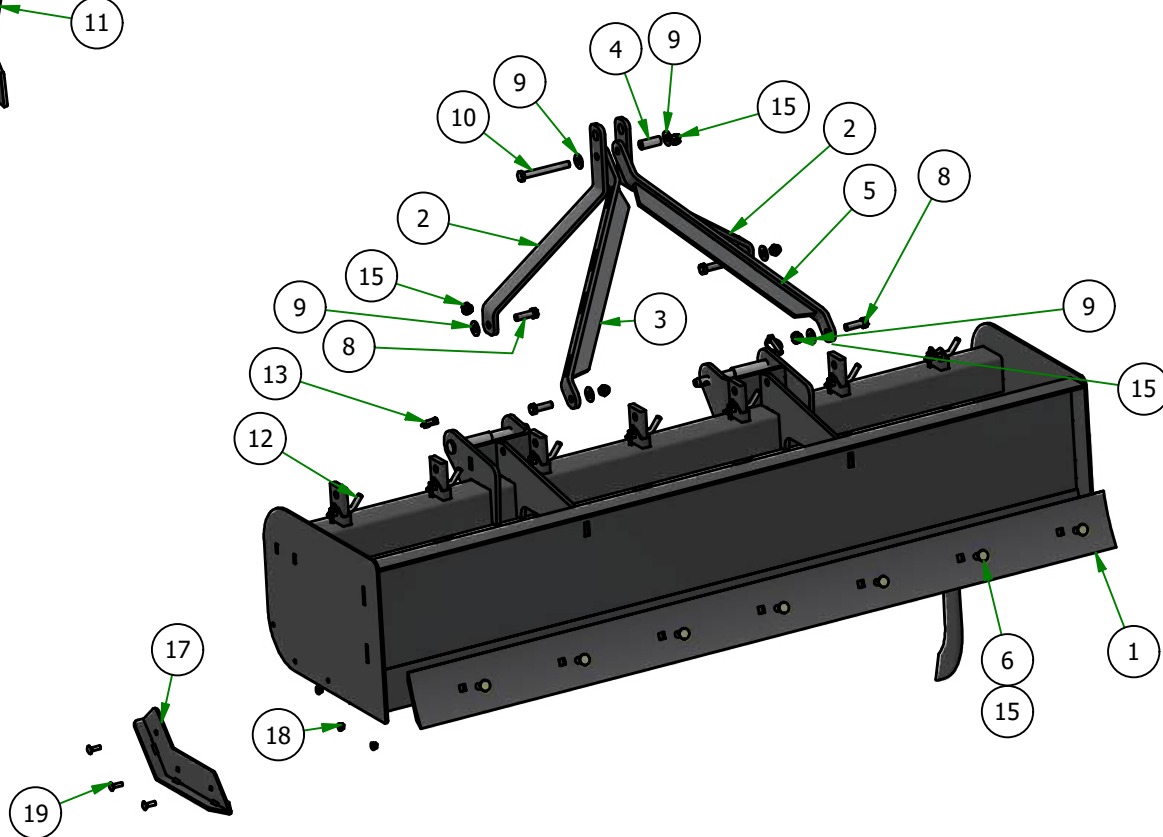
LUBRICATION

- Do not allow excess grease to collect on or around parts, particularly when operating in sandy areas.
- See figures below for lubrication points and frequency of lubrication based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication.
- Use a lithium grease of #2 consistency with a MOLY (molybdenum disulfide) additive for all locations unless otherwise noted. Be sure to clean fittings thoroughly before attaching grease gun. One good pump from most guns is sufficient when the lubrication schedule is followed.
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PARTS SECTION: 7' Box Blade



Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	2	338-0009-00	84" LG/BB Blade	
2	2	303-0007-00	Box Blade Rear Support A Arm_Cat2	
3	1	303-0009-00	7ft rear A Arm weldment_LH	
4	1	325-0003-00	1.5" Hinge Spacer	
5	1	303-0008-00	7ft rear A Arm weldment_RH	
6	14	318-5020-00	Plow Bolt	
7	14	013-5020-00	Plow Bolt Nut	
8	4	318-0015-00	5/8" x 2" Grade 5 Hex Bolt (Coarse)	
9	6	019-5038-00	5/8" Flat Washer	
10	1	318-0016-00	5/8 x 5 1/2" Bolt	
11	7	338-0006-00	Ripper	
12	7	344-2007-00	1/2" x 4" Bent Hitch Pin	
13	2	340-0014-00	7/16"x2x Lynch pin	
14	2	340-0017-00	Cat 1-2 Draw pin	
15	19	313-0002-00	5/8-11 NYL INS L/N ZC	
16	1	388-3012-00	2025 7ft Box Blade Weldment	
17	2	301-0006-07	Boxblade skid Assembly	
18	6	013-5202-00	3/8-16 NYLON INSERT FLANGE LOCKNUT (GR.F) ZINC	
19	6	018-5043-00	3/8-16 X 1-1/4 CARRIAGE BOLT ZINC	



PARTS SECTION: DECALS



391-0040-00
Made in the USA



391-0059-00
Tiller/Box Cutter Bad Boy Left Decal 12.94"



391-0060-00
Tiller/Box Cutter Bad Boy Right Decal 12.94"

FASTENER TORQUE CHART

NOTICE

Torque values given in the below text assume an unlubricated fastener. If using a lubricated fastener, reduce the torque (given in the previous text) by 25%.

Torque Values Chart for Common Bolt Sizes

Bolt Size (Inches) in-tpi ¹	Bolt Head Identification					
						
	Grade 2		Grade 5		Grade 8	
	N · m ²	ft-lb ³	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12
1/4" - 28	8.5	6	13	10	18	14
5/16" - 18	15	11	24	17	33	25
5/16" - 24	17	13	26	19	37	27
3/8" - 16	27	20	42	31	59	44
3/8" - 24	31	22	47	35	67	49
7/16" - 14	43	32	67	49	95	70
7/16" - 20	49	36	75	55	105	78
1/2" - 13	66	49	105	76	145	105
1/2" - 20	75	55	115	85	165	120
9/16" - 12	95	70	150	110	210	155
9/16" - 18	105	79	165	120	235	170
5/8" - 11	130	97	205	150	285	210
5/8" - 18	150	110	230	170	325	240
3/4" - 10	235	170	360	265	510	375
3/4" - 16	260	190	405	295	570	420
7/8" - 9	225	165	585	430	820	605
7/8" - 14	250	185	640	475	905	670
1" - 8	340	250	875	645	1230	910
1" - 12	370	275	955	705	1350	995
1-1/8" - 7	480	355	1080	795	1750	1290
1 1/8" - 12	540	395	1210	890	1960	1440
1 1/4" - 7	680	500	1520	1120	2460	1820
1 1/4" - 12	750	555	1680	1240	2730	2010
1 3/8" - 6	890	655	1990	1470	3230	2380
1 3/8" - 12	1010	745	2270	1670	3680	2710
1 1/2" - 6	1180	870	2640	1950	4290	3160
1 1/2" - 12	1330	980	2970	2190	4820	3560

Bolt Size (Metric) mm x pitch ⁴	Bolt Head Identification					
						
	Class 5.8		Class 8.8		Class 10.9	
	N · m	ft-lb	N · m	ft-lb	N · m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

¹ in-tpi = nominal thread dia. in inches-threads per inch

² N · m = newton-meters

³ ft-lb= foot pounds

⁴ mm x pitch = nominal thread dia. in millimeters x thread pitch

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

DEALER'S CHECKLISTS

PRE-DELIVERY CHECK LIST

It is the dealer's responsibility to fully assemble and inspect the cutter before the customer takes delivery of the unit. The following check list is provided as a memory aid to ensure all points are inspected. Check off the items below as they are completed.

- ___ Check the torque of all bolts to be sure they meet the values given in the Fastener Torque Chart (pg. 24).
- ___ Check that the cotter pin is properly secured.
- ___ Check the PTO shaft for proper installation.
- ___ Check that the gearbox is properly filled with gear oil and that no seals are leaking.
- ___ Grease all lubrication points as shown in Lubrication (pgs. 14-15).
- ___ Check that blades have been properly installed. The cutting edge should lead in a counterclockwise motion when viewed from above.

DELIVERY CHECKLIST

- ___ Explain the importance of periodic inspections and lubrication to the customer.
- ___ Present the Owner's Manual to the customer and request that the customer and all other users read the material before operation. Explain the importance of the safety rules.
- ___ Explain the importance of front ballasts. This unit weighs 4ft/425 5ft/500 6ft/892 pounds; the customer needs to weigh the tractor and equipment to ensure at least 20% of the total weight is on the tractor's front wheels.
- ___ Explain that if the unit is transported on or along a roadway, safety devices (such as reflector decals) should be utilized in order to alert motorists of the equipment's presence.

NOTICE

- **The gearbox was not filled with gear oil at the factory. It must be filled before the cutter can be placed into service (see Lubrication, pg. 14). Failure to fill the gearbox with the proper quantity of gear oil will result in damage to the gearbox.**

WARRANTY

OWNER/OPERATOR'S RESPONSIBILITY

It is the owner and/or operator's responsibility to read the owner's manual before use. Failure to read the owner's manual is considered a misuse of this equipment.

It is the owner and/or operator's responsibility to inspect the product and to have any part(s) repaired or replaced before continued operation. Failure to do so could cause damage, excessive wear to other parts, or jeopardize operator safety.

LIMITED WARRANTY

Bad Boy Implements warrants to the original purchaser of any new Bad Boy Implement(s) that the equipment be free from defects in material and workmanship for a period of one (1) year from date of retail sale.

At Bad Boy Implements request, the customer will make the defective part available for inspection by Bad Boy Implements and/or return the defective part to Bad Boy Implements. Transportation charges prepaid.

WHAT THIS WARRANTY DOES NOT COVER:

This warranty does not cover defects caused by depreciation or damage caused by wear, accidents, improper maintenance, improper use or abuse of the product, alterations, or failure to follow the instructions contained in the Owner's Manual for operation and maintenance.

Normal maintenance service and consumable items such as gearbox lubricant, blades, tire, or normal deterioration of exterior finish due to use or exposure.

Bad Boy Implements will not be responsible for the pickup and delivery of a machine for warranty purposes or inspection.



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