



# Classic ZERO TURN MOWERS

MODELS:  
2750KW, 2760KW, 3560KW, 3572KW

Published 09/21

Part No. DC4D0030C

## OPERATOR'S MANUAL



### DIXIE CHOPPER®

2540 E. County Road 50S  
Fillmore, IN 46128  
800-307-2667  
[www.dixiechopper.com](http://www.dixiechopper.com)

Dixie Chopper Web Page



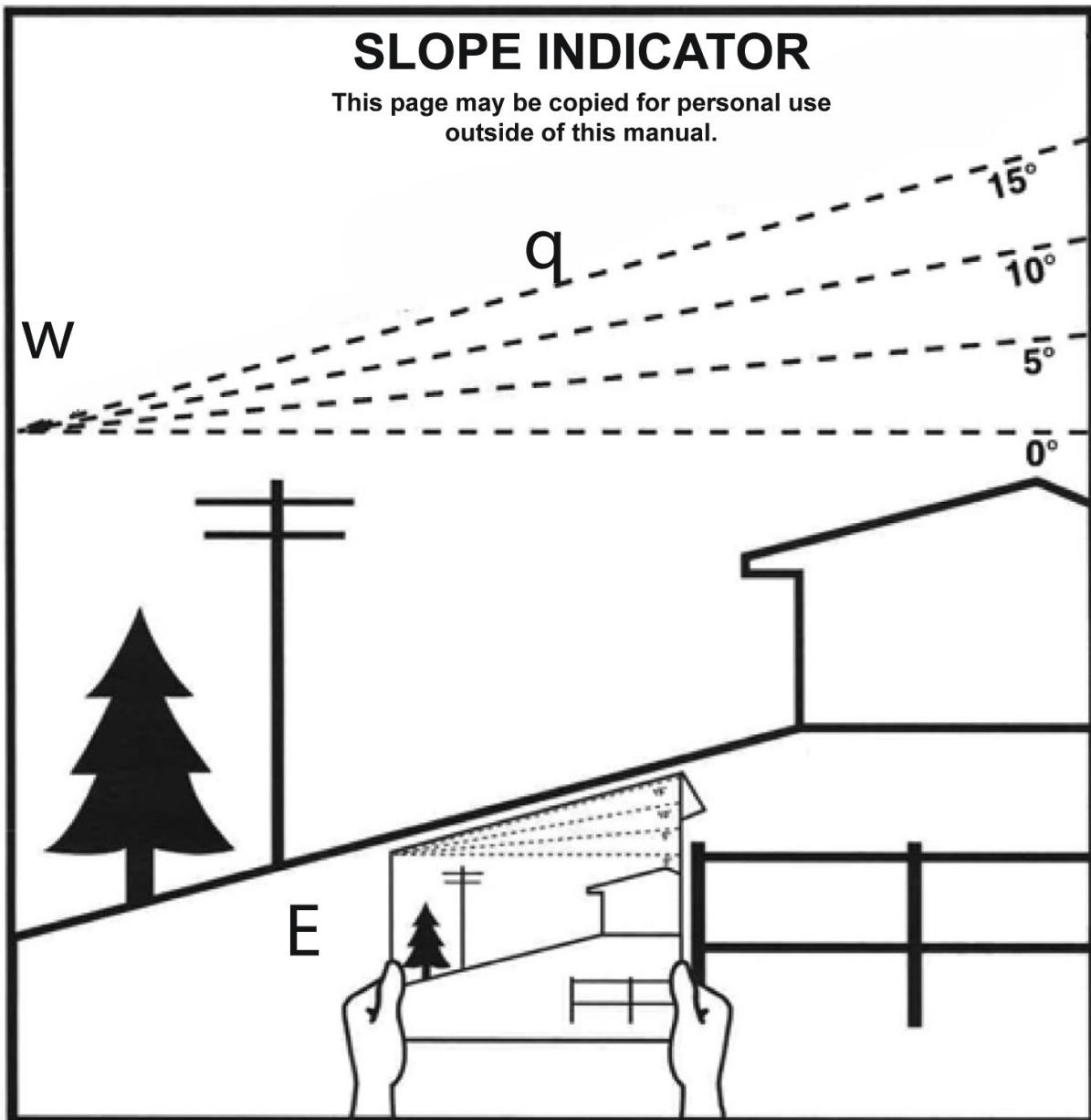
[www.elgqr.com/dcw](http://www.elgqr.com/dcw)





## **DANGER**

Operating of this Zero Turn Mower on a Slope Exceeding 15 Degrees is unsafe and can cause upset or loss of traction resulting in serious injury or death.



- q** Fold along the dashed line to measure the slope being checked.
- W** Align this edge with a vertical reference point, a tree, building, power pole, etc.
- e** Shows example of how to compare the slope with the folded edge.



## To the Owner/Operator/Dealer

This Operator's Manual is an integral part of the safe operation of this Zero Turn Mower and must be maintained with the Zero Turn Mower at all times. A Manual holder is provided on the Zero Turn Mower where this manual can be properly stored. If you lose or damage this manual a free replacement manual can be obtained from an authorized Dixie Chopper dealer or by down loading the manual from the Dixie Chopper website [www.dixiechopper.com](http://www.dixiechopper.com)

**BEFORE YOU START! READ, UNDERSTAND, and FOLLOW the information provided in this manual, the Engine manual carefully to learn how to operate and service your Zero Turn Mower properly. Failure to do so could result in personal injury to you and bystanders. All Zero Turn Mowers with moving parts are potentially hazardous. Every effort has been made to ensure that the Zero Turn Mower is safe, but operators must avoid engaging in unsafe practices and follow the written instructions provided. The manufacturer has designed this Zero Turn Mower to be used with all its safety equipment properly attached to minimize the chance of accidents.**

**SAFETY FIRST.** Completely read and understand the safety section of this manual before operating this equipment. Do not allow anyone to operate this equipment who has not fully read and understood this manual. Contact your Dealer to explain any instructions that you do not fully understand.

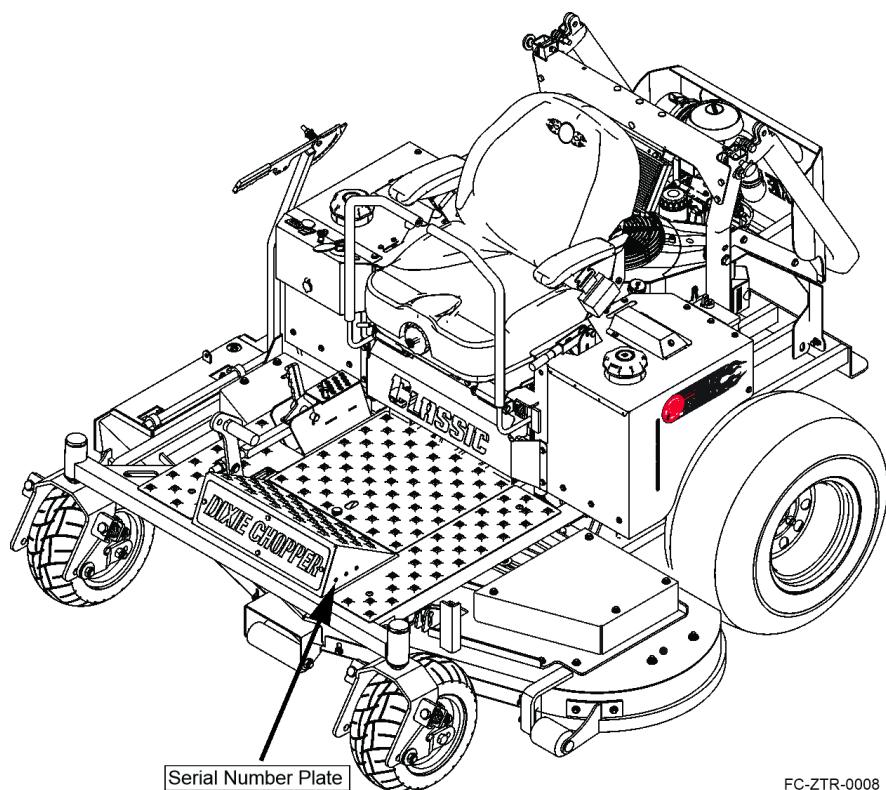
The care you give your Dixie Chopper Zero Turn Mower will greatly determine your satisfaction with its performance and its service life. Carefully read and follow the instructions in this manual to provide you with a thorough understanding of your new Zero Turn Mower and its intended use and service requirements.

All references made in this manual to right, left, front, rear, top or bottom are as viewed facing the direction of forward travel with the Zero Turn Mower.

Replacement Parts information is located in a separate Parts Manual. Dixie Chopper parts are made and tested to Dixie Chopper specifications. No-genuine "will fit" parts do not consistently meet these specifications,. The use of "will fit" parts may reduce Zero Turn Mower performance, void warranties, and present a safety hazard. Use genuine Dixie Chopper Zero Turn Mower parts for economy and safety. For future reference record your Dixie Chopper product model number and serial number.

This unit is Approved for use on U.S. Forest Service Lands.

Dealer		Telephone		Model Number	
Owner		Purchase Date:		Serial Number	



# Dixie Chopper Limited Warranty



## General Warranty Conditions

Dixie Chopper warrants that it will, at its option, adjust, repair, or replace, any factory original part used in the manufacturing of a Dixie Chopper complete unit, found to be defective in material or workmanship. For the purposes of this Warranty, a Dixie Chopper complete unit is defined as a riding lawn mower manufactured by Dixie Chopper. This warranty is non-transferable absent written authorization by Dixie Chopper. Dixie Chopper is in no way liable for any special, incidental or consequential damages for breach of any written or implied warranty on any product.

## Purchaser/Operator's Responsibilities under the Warranty

As a condition of the Dixie Chopper Warranty, the purchaser and or the operator must have fully read and understood the operator's manual. This includes being familiar with how to operate the equipment safely, as well as how to maintain the equipment properly prior to actually operating the equipment. This Warranty applies only to equipment that is operated under normal conditions and maintained per the service schedule specified in this owner's manual. Maintenance of the unit is the sole responsibility of the owner.

To obtain warranty service, the unit must be registered by an authorized Dixie Chopper dealer before obtaining any warranty work. Purchaser may be required to provide proof of purchase to enable validation of the warranty period.

A Dixie Chopper mower requiring repair or warranty work must be returned to an authorized Dixie Chopper Service Dealer within the warranty period. The expense of transporting the unit to and from the authorized Dixie Chopper service dealer for warranty work will be the sole responsibility of the purchaser/owner and in no way will be attributed to Dixie Chopper. All warranty work must be performed by an authorized Dixie Chopper Dealer using genuine Dixie Chopper parts. Failure to have warranty repair performed by an authorized Dixie Chopper Dealer will result in the denial by Dixie Chopper to pay for said warranty repair work.

Should a Purchaser encounter problems with receiving warranty service from an authorized Dixie Chopper Dealer, or is in need of assistance or clarification of this warranty, contact us at:

Dixie Chopper  
2540 E. County Road 50S  
Fillmore, IN 46128

**NOTE:** This warranty is void for any new products purchased through auction web sites. Warranty is valid only for new products purchased through Authorized Dealer. Proof of purchase required for all claims.

## Warranty Period & Limitations

This lawn mower is warranted to be free of defects in material or workmanship for a period of three (3) years from the retail purchase date by the original purchaser regardless of the amount of hours of service on the machine. For warranty period, Dixie Chopper will be responsible for both parts and labor for approved claims.

\*The Engine warranty is covered by the engines manufacturer. Please refer to the engine manufacturer's warranty statement that is included in the literature packet. All engine claims must be submitted through engine manufacturer.

## Battery Warranty

Dixie Chopper original equipment batteries are warranted against OEM factory defects in materials or workmanship for a period of one (1) year prorated from the manufacturer's shipping date. Abuse or using the battery for purposes not associated with its intended use voids the battery warranty.

## Consumable Parts Warranty

Consumable wear items such as tires, blades, spark plugs, belts, seat, etc. are warranted for a period of (90) days from the date of retail purchase for defects in materials or workmanship. This warranty does not apply to damage or wear of such consumable components as a result of abuse or normal wear and tear.

## **Lifetime Warranties**

Dixie Chopper will provide to the original purchaser of this lawn mower unit limited lifetime warranty coverage for breakage of any front fork, breakage of steering linkages and levers, failure of the front caster bearings, breakage of welded mainframe and all stainless steel body parts against rust. This is for parts only after the third (3rd) year, and does not apply to any labor cost associated with repairing such components.

## **Warranty Exclusions & Remedies**

Dixie Chopper does not warranty the following: 1) parts not manufactured or sold by Dixie Chopper; 2) after market components or accessories for use on a Dixie Chopper brand mower; 3) repairs, alterations or installation of accessories by unauthorized Dixie Chopper service dealer; 4) repairs or replacement resulting from the installation or use of unauthorized parts, accessories or attachments; 5) damage to a Dixie Chopper unit that occurred as a result of it being used for another purpose other than which it was designed; 6) damage or depreciation as a result of normal wear and tear, or improper or inadequate maintenance of the mower as specified in this owner's manual 7) damage as a result of an act of God to include but not limited to hail, wind, rain, flood, lightning, fire, smoke, sun exposure, earthquake, etc.; 8) repairs or replacement as the result of any alterations or modifications, in the determination of Dixie Chopper, which adversely affects the performance or operation of the mower; 9) costs associated with the routine maintenance of the mower or costs of parts associated with such to include those specified by this owner's manual to include oil grease, and consumable components; 10) repairs associated with improper fuel usage, to include the use of gasoline containing as excess of 10% ethanol alcohol by volume, and or use of diesel fuel that is not regulated by a governmental agency i.e. home brewed biodiesel.

Dixie Chopper is in no way liable for consequential damages, negligence, strict liability in tort, or any other legal theory. Likewise, Dixie Chopper is not responsible for damages associated with these theories to include but not limited to: 1) lost profits or revenue; 2) loss of the use of any equipment that is subject to this warranty; 3) any down time as a result of warranty work being performed to include temporary replacement equipment; 4) cost of capital; and 5) claims asserted by third parties, including customers. Some jurisdictions prohibit the exclusion or limitation of incidental or consequential damages, so the above may not be applicable to you.

## DEALER PRE-DELIVERY CHECKLIST

Dealer has reviewed the ZTR mower and certifies the following:

- Checked that the Safety Decals are in place on the mower and in good readable condition.
- Check that the Operator's Manual and all other applicable manuals are included with the equipment.
- Checked fuel tanks, lines, and caps and verified that no fuel leaks were present.
- Checked oil levels, lubrication points for proper level, lubrication and fluid leaks.
- Checked all safety items for installation and proper operation including protective shields, guard, grass deflectors. etc.
- Tested the Interlock System in accordance with the Operators Manual.
- Tested the Parking Brake and Service Brake (dynamic braking through the traction circuit) in accordance with the Operator's Manual.
- Check cutting height adjustment front to rear, belts adjustment, and proper raising operation.
- Check installation of deflector, blades, axles, and all bolts, pins and nuts for proper torque.
- Checked tires and wheels for proper cold air pressure lug nuts for correct torque. Checked grease, height adjustment, and pre-load on wheels and bearings.
- Verified that seat properly locks into place.

## DEALER CERTIFICATIONS

By Completing this on-line registration, Dealer certifies the following:

- Warranty and Safety: I have informed the purchaser of this product of warranty terms as stated in the warranty policy included in the Operator's Manual and directed the purchaser to the entire warranty policy as reference, potential hazards of unauthorized modifications, reviewed with the purchaser the Operator's Manual including the safety equipment, safe operation maintenance, and the Safety Signs on the equipment, and purchaser's responsibility to train the operators in safe operation of the mower.
- Operator's Manual: I have shown the purchaser that the Operator's Manual is included with the mower and instructed the purchaser to read and understand the manual before operating the mower. I instructed the purchaser that if he or she does not understand any of the instructions in the manual to ask this dealership to explain the instructions.
- Mower Shields: I have explained to the purchaser that deflectors, guards, and solid skirts must be maintained in good repair to reduce the potential for mower thrown objects. I have explained that it is no possible to guard against all thrown objects, that the operator is

- responsible for keeping bystanders, children, and animals 100 feet away and inside during operation under the watchful care of a responsible adult other than the operator, and to stop mower if anyone enters the area.
- I have explained to the purchaser the importance of checking for fuel leaks before, during, and after each use of the mower. I have explained that if a leak is found to stop using the mower and have it repaired by the dealer or authorized service center.
- I have explained to the purchaser the necessity of using clean drive oil, changing filters as instructed, the potential hazard of oil penetrating the skin and to not use bare hands to check for oil leaks, stopping leaks, and the potential damage that can occur from operating with overheated oil.

### **CUSTOMER'S DECLARATION**

- I have received the above unit in satisfactory condition with all guards, shield safety decals, and safety devices in place and controls and switches functioning properly.
- I have received and reviewed the Operator's Manual for the Dixie Chopper mower listed above.
- I have personally read all instructions in the Operator's Manual regarding safe and unsafe operating practices and intended uses of this machine including all controls and safety/operating decals.
- I have read and reviewed the Warranty coverage for this machine in the Operator's Manual.
- I acknowledge that it is my responsibility to review and familiarize myself with the proper operation of this machine, including adhering to all warnings and safety/operating instructions including, but not limited to, operating the machine within an appropriate and safe slope/grade/direction of travel and in an area clear of bystanders, children, pets, and obstructions prior to usage. It is also my responsibility to be alert and stop the mower if anyone enters the mowing area.
- I acknowledge that some Dixie Chopper mower **do not include a ROPS**, "Roll Over Protection System", as standard equipment. If this machine does not come with ROPS as standard equipment, I understand that a ROPS is available for purchase from an authorized Dixie Chopper dealer as an accessory.

A ROPS is standard equipment on commercial machines and **MUST be used** in accordance to information provided in Owner, Operator, Safety Manual



# TABLE OF CONTENTS

<b>SAFETY SECTION .....</b>	<b>1-1</b>
GENERAL SAFETY INSTRUCTIONS AND PRACTICES .....	1-2
IMPORTANT SAFETY CONSIDERATIONS AND PRECAUTIONS .....	1-3
SAFETY INSTRUCTIONS AND RECOMMENDATIONS .....	1-3
OPERATOR SAFETY .....	1-4
ACCIDENT PATTERNS TO AVOID .....	1-5
MOWER BLADE CONTACT HAZARDS .....	1-6
THROWN OBJECT SAFETY .....	1-7
USE ROPS & SEATBELTS FOR OPERATING ON SLOPES SAFETY .....	1-8
USE ROPS & SEATBELTS FOR OPERATING ON SLOPES SAFETY(CONT.) .....	1-9
RUN OVER HAZARDS .....	1-10
CHILD SAFETY .....	1-11
FUEL & FIRE SAFETY .....	1-12
FUEL & FIRE SAFETY - CONTINUED .....	1-13
MAINTENANCE SERVICE AND STORAGE SAFETY .....	1-14
HIGH PRESSURE OIL LEAK HAZARD .....	1-16
BATTERY SERVICE PRECAUTIONS .....	1-17
DRIVING AND TRANSPORTING ON PUBLIC ROADS .....	1-18
PARTS INFORMATION .....	1-19
DECAL LOCATION MOWER DECK .....	1-20
MOWER DECALS .....	1-23
FEDERAL LAWS AND REGULATIONS .....	1-29
<b>INTRODUCTION SECTION .....</b>	<b>2-1</b>
ENGINE SPECIFICATIONS .....	2-4
TRACTOR SPECIFICATIONS Classic .....	2-5
DECK SPECIFICATIONS .....	2-5
OPTIONAL EQUIPMENT .....	2-5
MOWER SPECIFICATION .....	2-6
CUTTING UNIT SPECIFICATION .....	2-6
BELT SPECIFICATION .....	2-7
RECOMMENDED LUBRICANTS .....	2-7
Engine Oil .....	2-7
DIMENSIONS AND WEIGHTS .....	2-8
TIRE SPECIFICATIONS .....	2-8
SLOPE ANGLE GUIDE .....	2-10
<b>ASSEMBLY SECTION .....</b>	<b>3-1</b>
MOUNTING THE REAR TIRES .....	3-2
MOUNTING THE CONTROL LEVERS. ....	3-2
ROPS .....	3-2
MOUNTING THE SEAT .....	3-2
BATTERY .....	3-2
MOUNTING THE SEAT BELT .....	3-3
Items to Check: .....	3-3
.....	3-3
<b>OPERATION SECTION .....</b>	<b>4-1</b>

OPERATOR REQUIREMENTS .....	4-3
MOWER REQUIREMENT .....	4-4
ROPS and Seat Belt .....	4-4
GETTING ON AND OFF THE MOWER .....	4-4
CONTROLS .....	4-5
Mower Controls .....	4-5
Control Panel .....	4-6
Ignition Switch .....	4-6
PTO Switch .....	4-7
Hour Meter .....	4-7
12 Volt Accessory Outlet .....	4-7
Throttle Lever .....	4-7
Choke Control .....	4-8
Fuel Select Valve .....	4-8
Steering Control Levers .....	4-8
Parking Brake Lever .....	4-9
Cutting Unit HOC Pedal .....	4-9
Lift Stop Lever .....	4-9
Operator Controlled Discharge Chute .....	4-10
INTERLOCK SYSTEM .....	4-10
MOWER PRE-OPERATION INSPECTION .....	4-12
Pre-Operation Checklist .....	4-12
Preparing to Drive Zero Turn .....	4-14
PTO RPM and Ground Speed .....	4-14
STARTING THE ENGINE .....	4-15
TO STOP THE ENGINE .....	4-15
OPERATING THE ZERO TURN MOWER .....	4-16
Bystander/Passerby Precautions .....	4-16
Engaging the Power Take Off (PTO) .....	4-16
DRIVING THE MOWER .....	4-17
MOWING .....	4-18
Height of Cut .....	4-18
Mowing on Slopes .....	4-19
Mowing Near Water, Ditches, and Embankments .....	4-19
SAFETY RULES FOR TOWING OPERATIONS .....	4-20
TOWING THE MOWER .....	4-20
TOWING THE MOWER .....	4-21
TROUBLESHOOTING GUIDE .....	4-22

## **MAINTENANCE SECTION .....** **5-1**

PARTS INFORMATION .....	5-2
MAINTENANCE SCHEDULE .....	5-3
LUBRICATION .....	5-4
Grease Fitting Locations .....	5-4
Fluid Requirements .....	5-5
ENGINE .....	5-5
Engine Oil .....	5-6
Engine Air Filter .....	5-6
Engine Exhaust .....	5-7
Fuel .....	5-7
BATTERY .....	5-8
Charging the Battery .....	5-8
Servicing the Battery .....	5-8
Jump-Starting the Mower .....	5-9
DRIVE SYSTEM .....	5-9

Drive System Hoses .....	5-9
Drive System Fluid .....	5-10
TIRES AND WHEELS .....	5-11
Tires .....	5-11
FOLDING ROPS .....	5-11
AIR COOLING SYSTEM .....	5-12
BLADES .....	5-12
Inspecting Blades .....	5-12
Sharpening Blades .....	5-13
ELECTRICAL SYSTEM .....	5-14
BELTS .....	5-14
CARE AND CLEANING .....	5-16
MOWER STORAGE .....	5-17
General .....	5-17
Battery .....	5-17
Engine .....	5-17
Cutting Units .....	5-17
After Storage .....	5-17
GUIDELINES FOR THE DISPOSAL OF SCRAP PRODUCTS .....	5-18
During Service Life .....	5-18
End of Service Life .....	5-18

# **SAFETY SECTION**

Safety Section 1-1

# SAFETY

## GENERAL SAFETY INSTRUCTIONS AND PRACTICES

A careful operator is the best operator. Safety is of primary importance to the manufacturer and should be to the owner/operator. Most accidents can be avoided by being aware of your equipment, your surroundings, and observing certain precautions. 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. Read and understand these Safety Messages before assembling, operating or servicing this Implement. This equipment should only be operated by those persons who have read the manual, who are responsible and trained, and who know how to do so responsibly.



The Safety Alert Symbol combined with a Signal Word, as seen below, is used throughout this manual and on decals which are attached to the equipment. The Safety Alert Symbol means: "ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!" The Symbol and Signal Word are intended to warn the owner/operator of impending hazards and the degree of possible injury faced when operating this equipment.

Practice all usual and customary safe working precautions and above all---remember safety is up to YOU. Only YOU can prevent death or serious injury from unsafe practices.



Indicates a hazardous situation that, if not avoided, WILL result in DEATH OR VERY SERIOUS INJURY.



Indicates a hazardous situation that, if not avoided, COULD result in DEATH OR SERIOUS INJURY.



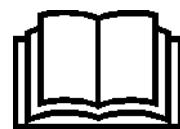
Indicates a hazardous situation that, if not avoided, MAY result in MINOR OR MODERATE INJURY.



Indicates information considered important, but not hazard-related (e.g. messages relating to property damage).

**NOTE:** *Identifies points of particular interest for more efficient and convenient operation or repair.*

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Death or serious injury may occur unless care is taken to follow the warnings and instructions stated in this Manual and in the Safety Messages on the implement. Always follow the instruction in this manual and use good common sense to avoid hazards.



Pictographs are used throughout this manual to help bring your visual attention to safety issues.

SAFETY HAZARD	SAFETY AVOIDANCE	SAFETY PREVENTION
<p>Pictograph surrounded by a triangle indicates a Safety Hazard that must be avoided. <i>Example:</i></p>  <p>Equipment contacting overhead electrical lines</p>	<p>Pictograph in a circle with blue or black background, by itself or inside a box, indicates an avoidance procedure or action that should be followed to prevent injuries. <i>Example:</i></p>  <p>Wear safety footwear.</p>  <p>Always shut off engine and remove key before working on equipment.</p>	<p>A circle with a slash through it indicates an action that is prohibited. <i>Example:</i></p>  <p>No Smoking</p>

**NOTE:** *If you want a translation of this safety section in one of the following Languages, please contact: Translations at 1502 E. Walnut Street Seguin, TX 78155; Fax: (830) 372-9529; Safety Section Translations are available in Spanish, Portuguese, French, German, Russian. PN GS-01*

# SAFETY

## **IMPORTANT SAFETY CONSIDERATIONS AND PRECAUTIONS**

In addition to the design and configuration of Zero Turn Mower, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel in the operation, transport, maintenance and storage of Zero Turn Mower. Lack of attention to safety can result in accident, personal injury, reduction of efficiency and worst of all-loss of life. Watch for safety hazards and correct deficiencies promptly. Use the following safety precautions as a general guide to safe operations when using this Zero Turn Mower. Additional safety precautions are used throughout this manual for specific operating and maintenance procedures. Read this manual and review the safety precautions often until you know the limitations.

**DIXIE CHOPPER SHARES YOUR DESIRE TO PROTECT YOURSELF, YOUR FAMILY, YOUR FRIENDS AND YOUR NEIGHBORS FROM ACCIDENTAL INJURY. OBSERVING AND ENFORCING THE FOLLOWING SAFETY INSTRUCTIONS WILL HELP TO INSURE THE SAFETY OF EVERYONE.**

## **SAFETY INSTRUCTIONS AND RECOMMENDATIONS**

PEOPLE WHO OPERATE, SERVICE, OR ARE OTHERWISE ASSOCIATED with the Zero Turning Riding Mower should be trained in its proper use and warned of its dangers. Before operating, adjusting, or servicing the Zero Turning Riding Mower they should read and understand this entire manual and the engine manual.

The following listing contains safety information specific to Dixie Chopper Zero Turn Mowers and other safety information that you must know and follow. This Zero Turn Mower is capable of amputating hands and feet, and of throwing objects. Always follow all safety instructions to avoid serious injury or death.

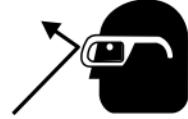
This Zero Turn Mower is designed for cutting and recycling grass, or, when equipped with a grass bagger, for catching cut grass. Any use for purposes other than these could prove dangerous to the user and bystanders.

SAFETY

# SAFETY

## SAFETY

### OPERATOR SAFETY

				
Read and understand Operator's Manual	Always wear safety glasses marked with ANSI Z87	Wear Safety Shoes	Never use Drugs or Alcohol when operating equipment	Wear Hearing Protection



#### TO AVOID DEATH OR SERIOUS INJURY DO THE FOLLOWING:

- Read and understand the Zero Turn Mower and Engine Operator's Manuals before operating the Zero Turn Mower.
- Always wear safety goggles or safety glasses with side shields (marked with ANSI Z87) when operating this Zero Turn Mower.
- Always wear sturdy, rough-soled work shoes and close-fitting trousers and shirts. never operate Zero Turn Mower in bare feet, sandals, sneakers or open toe shoes.
- Always wear long pants and safety shoes with slip-resistant soles when operating this Zero Turn Mower. Do not wear shorts or any type of loose fitting clothing as they may get tangled in moving parts.
- Do not wear a towel from the waist, or use a towel as a headband or neck wrap.
- Remove jewelry and tie back long hair to prevent entanglement in moving parts.
- Always wear adequate ear protection, such as ear-plugs. Prolonged exposure to loud noise can cause impairment or loss of hearing.
- Do not wear radios or music headphones while operating this Zero Turn Mower. Safe operation requires your full attention.
- Do not operate the Zero Turn Mower if you are fatigued, sick, or while under the influence of alcohol or drugs, if you are pregnant or less than 18 years old.
- Poor posture or operating the Zero Turn Mower for extended periods of time may lead to fatigue or injury, resulting in loss of Zero Turn Mower control. Occasionally, stop the Zero Turn Mower and get off the seat to stretch and relax.

- Never step or stand on the Zero Turn Mower housing; stand only on the tread areas on the deck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding Zero Turn Mower-related injuries. These operators should evaluate their ability to operate the Zero Turn Mower safely enough to protect themselves and others from serious injury.

### MOWER OPERATION SAFETY

- Always secure the ROPS in the raised position and buckle the seat belt before starting Zero Turn Mower.
- Never leave a running Zero Turn Mower unattended.
- Before leaving the operator's seat for any reason, including unclogging the chute:
  - Always stop on level ground.
  - Disengage the Zero Turn Mower clutch.
  - Place the steering control levers in the park brake position.
  - Stop the engine
  - Wait for the engine and all moving parts to come to a complete stop

### GROUND SPEED WHEN MOWING

- NORMAL SPEED range is between 2 to 5mph.
- ADJUST MOWING SPEED for terrain conditions and grass type, density and cut height.
- REDUCE MOWING SPEED when near steep slopes, ditches, drop-offs, overhead obstructions, power lines and to avoid debris and foreign objects.
- WHEN FEASIBLE, do not operate Zero Turn Mower when grass is wet or slippery. *PN OS-ZT-03*

# SAFETY

## ACCIDENT PATTERNS TO AVOID



Hand Foot Hazard



Zero Turn Mower Thrown Object Hazard



Crushing Injury From Roll Over



Crushing Injury From Run Over



Child Run Over Hazard



Fuel and Fire Hazard

- CONTACT WITH THE ROTATING BLADE -** This accident usually happens when the operator is clearing the discharge chute of grass, (especially when the grass is wet), or when the operator adjusts the Zero Turn Mower without turning it off.



Before leaving the operator's seat for any reason, Stop the engine and wait for the blades to completely stop. See additional safety instructions in the Mower Blade Contact Safety section.

- ZERO TURN MOWER THROWN OBJECTS -** Sticks, rocks, wires, and other objects can be propelled out through the discharge chute or from under the Zero Turn Mower housing. Bystanders are particularly vulnerable.



Inspect area before mowing and remove or mark foreign solid objects, be alert and never let the Zero Turn Mower blades contact any solid objects. See additional safety instructions in the Thrown Object Safety section.

- GRASS DISCHARGE CHUTE -** The Zero Turn Mower shall not be operated without the grass discharge chute in its lowered position.



Never operate the Zero Turn Mower with the discharge shoot missing, damaged or folded up. See additional safety instructions in the Thrown Object Safety section.

- OVERTURNING -** This can happen when riding Zero Turn Mowers are used on slopes, embankments or hills. The operator can sustain crushing injuries during from the Zero Turn Mower rolling on top of operator.



The Rollover-Protection System (ROPS) is an integral and effective safety device. Keep the ROPS in the raised and locked position and use the seat belt when operating the machine. See additional safety instructions in the Operating on Slopes section.

- ZERO TURN MOWER RUNNING OVER THE VICTIM -** This usually happens when a Zero Turn Mower is driven in reverse. The accident victims are most often young children whom, unseen by the operator of the Zero Turn Mower, were in the area being mowed.



Disengage power to Zero Turn Mower before backing up. Never allow children in area when mowing. Look Behind Zero Turn Mower before backing up. See additional safety instructions in the Operating Safety section.

- CHILD SAFETY -** Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the Zero Turn Mower and the mowing activity.



Do not allow children to ride on or operate Zero Turn Mower. Never allow children in area when mowing. Never assume that children will remain where you last saw them. See additional safety instructions in the Children Safety section.

- FUEL AND GRASS FIRES -** A fire or explosion from gasoline can burn you and others and can damage property

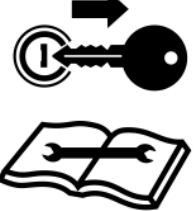


To avoid personal injury or property damage, use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Keep Zero Turn Mower clean of grass and debris. When operating in dry areas install spark arrestor. See additional safety instructions in the Fuel and Fire Safety section. *PN OS-ZT-03*

# SAFETY

## SAFETY

### MOWER BLADE CONTACT HAZARDS

		
Do not put fingers underneath mower	Do not put foot underneath Zero Turn Mower deck	Stop Tractor Remove Key Read Manual



#### **KEEP AWAY FROM ROTATING BLADES TO AVOID DEATH OR SERIOUS INJURY FROM :**

- AVOID CONTACT WITH MOVING PARTS. Keep hands and feet from under zero turn mowing deck and away from blades at all times. Turn engine (motor) off if you must unclog the chute.
- Never leave the Zero Turn Mower unattended with engine running. Always wait for all moving parts and all sounds to stop before leaving operator's seat. Always set the parking brake on an unattended Zero Turn Mower.
- Stop on level ground, disengage drives, engage the parking brake. shut off the engine before leaving the operator's position for any reason, including emptying the catchers or unclogging the chute.

- Turn off the Zero Turn Mower blades when not mowing.
- Always keep safety shields and covers in place, except for servicing.
- Never operate the Zero Turn Mower with the floor plate pulley cover removed.
- Start the engine only from the operator's position.
- Always remain seated while operating the Zero Turn Mower.
- Always keep clear of the Zero Turn Mower blades and attachments during their operation.
- Never put hands or feet under any part of the Zero Turn Mower while it is running.

*PN MB-ZT-01*

# SAFETY

## THROWN OBJECT SAFETY

			
Mower Throw Objects Hazard	Raised Zero Turn Mower Objects Throw	Inspect Area remove foreign objects	Do not let blades contact solid objects

### **DANGER**

**ZERO TURN MOWER CAN THROW OBJECTS 100 FEET OR MORE UNDER ADVERSE CONDITIONS.**

**TO AVOID DEATH OR SERIOUS INJURY TO OPERATOR OR BYSTANDERS FROM THROWN OBJECTS:**

- KEEP bystanders 100 feet away

**STOP MOWING IF PASSERSBY ARE WITHIN 100 FEET UNLESS:**

- All THROWN OBJECT SHIELDING including, Discharge chute, Zero Turn Mower deck bands and Skid Rollers in place and in good condition when mowing.
- Zero Turn Mower deck is adjusted to be close and parallel to ground without exposing blades.
- MOWING AREA has been inspected and foreign materials and debris have been removed.
- PASSERSBY are inside enclosed vehicle.

**KNOW AREA YOU ARE TO MOW.** Watch for hidden dangers such as rocks, roots, sticks, holes, bumps, and drop-offs, etc.

**INSPECT AREA FOR POTENTIAL THROWN OBJECTS BEFORE MOWING:**

- REMOVE debris, rocks, wire, cable, metal objects and other foreign material from area. Wire, cable, rope, chains and metal objects can be thrown or swing outside Zero Turn Mower deck with great velocity:
- 8. MARK objects that cannot be removed.
- 9. AVOID these objects when mowing.
- 10. **NEVER ALLOW BLADES to CONTACT SOLID OBJECTS** like wire, rocks, post, curbs, or ground while mowing.

**HIGH GRASS and WEED AREA INSPECTION:**

- INSPECT area before mowing for and REMOVE any hidden large debris.
- MOW at Intermediate height
- INSPECT and remove remaining debris
- MOW at final height.

**NEVER DIRECT discharged material toward anyone.** Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator.

**DO NOT OPERATE** with Discharge chute folded up, missing, damaged or removed.

**DO NOT** mow in standing water **TO AVOID** possible **BLADE FAILURE.**

**AVOID MOWING** in reverse:

**DO NOT ENGAGE** with Zero Turn Mower deck in transport position.

**ALWAYS DISENGAGE ZERO TURN MOWER BLADES** and wait for them to stop before crossing gravel drives, walks or roads.

**Zero Turn Mower OPERATION:**

**Zero Turn Mower THROWN OBJECT SHIELDING:**

- **KEEP** all thrown object shielding including, Discharge chute, deck bands and Skid Roller in place and in good condition when mowing.
- **DO NOT** exceed Zero Turn Mower's rated Cutting Capacity or cut non-vegetative material.

**ZERO TURN MOWER SHOULD BE STOPPED AND INSPECTED FOR DAMAGE** after striking a foreign object and the damage should be repaired before restarting and operating the Zero Turn Mower.

1. **BLADES CAN FAIL** from impact and objects can be thrown with great velocity.
2. **INSPECT** and **REPLACE** any damaged blades.
3. **CHECK** blade carrier and **REPLACE** if damaged.

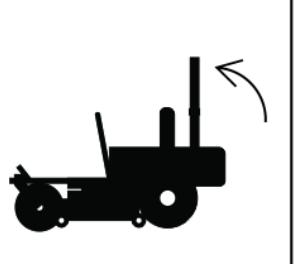
**Stop immediately** and check for damage or loose parts if Zero Turn Mower should start vibrating.

1. **STOP ZERO TURN MOWER** and kill ENGINE.
2. **INSPECT** Zero Turn Mower for vibration source.
3. **REPLACE** any damage parts and bent or damaged BLADES. *PN TO-ZT-01*

**SAFETY**

# SAFETY

## USE ROPS & SEATBELTS FOR OPERATING ON SLOPES SAFETY

			
Tip Over Hazard	ROPS must be in raised position	Always wear seatbelt	NO Riders



AVOID DEATH OR SERIOUS INJURY FROM FALLING OFF ZERO TURN MOWER, ROLLOVER AND CRUSHING BY ROLLING Zero Turn Mower

### Use the Rollover-Protection System (ROPS)

- The ROPS is an integral and effective safety device.
- Keep the ROPS in the raised and locked position
- ALWAYS BUCKLE UP seat belt when operating Zero Turn Mower.
- ONLY OPERATE Zero Turn Mower while seated in the operator's seat.
- Never attempt to start the Zero Turn Mower unless seated in the Operator's Seat with the Seat Belt securely fasten. Unintended movement could cause serious injury.
- ONLY mount or dismount when Zero Turn Mower and moving parts are stopped.
- NEVER ALLOW RIDERS on Zero Turn Mower.
- Do Not operate the Zero Turn Mower under influence of drugs or alcohol
- Lower the ROPS temporarily only when absolutely necessary. Do not wear the seat belt when the ROPS is folded down.
- Do Not lower the ROPS to mow under a tree limb. Cut the limb off or use alternative mower to mow under tree.
- Be aware there is no rollover protection when the ROPS is in the down position.
- Be certain that the seat belt can be released quickly in the event of an emergency.
- Check the area to be mowed and never fold down the ROPS in areas where there are slopes, drop offs or water.

- Keep the ROPS in safe operating condition by periodically thoroughly inspecting for damage and keeping all mounting fasteners tight.
- Replace a damaged ROPS. Do not repair or revise.
- Do Not remove the ROPS.

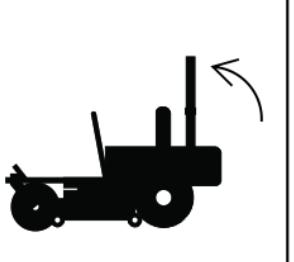
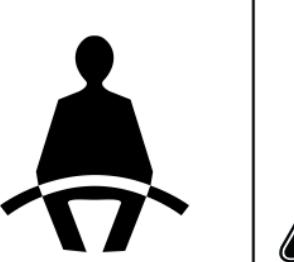
**Slopes are a major factor in loss-of-control and tip-over accidents, which can result in death or serious injury. All slopes require extra caution. If you cannot back the Zero Turn Mower up the slope or if you feel uneasy on the slope; do not mow it. REMINDER: Whenever possible AVOID HILLS AND SLOPES**

- DO NOT mow slopes greater than 15 degrees
- See front section of operator's manual to determine the approximate slope angle of the area to be mowed.
- DO NOT mow slopes when grass is wet slippery conditions affect steering and reduce traction and braking.
- Drive slower on slopes, Keep all movement on slopes slow and gradual.
- Do not try to stabilize the Zero Turn Mower by putting your foot on the ground. If the Zero Turn Mower's tires lose traction when operating on slopes, disengage the blades, place the steering control levers in the park brake position, stop the engine, and get help.
- Turn on the most level part of the slope.
- Be aware that loss of traction may occur going downhill. Weight transfer to the front wheels may cause drive wheels to slip and cause loss of braking and steering.

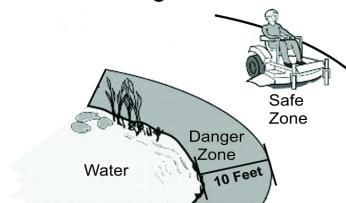
PN OS-ZT-04

# SAFETY

## USE ROPS & SEATBELTS FOR OPERATING ON SLOPES SAFETY(CONT.)

			
Tip Over Hazard	ROPS must be in raised position	Always wear seatbelt	NO Riders

- Progressively greater care is needed as the slope increases.
- Use EXTREME caution when mowing and/or turning on slopes as loss of traction and/or tip-over could occur. The operator is responsible for safe operation.
- If any sign of loss of traction is detected drive the Zero Turn Mower off of the slope slowly, using extreme caution. Wait until the condition that caused the problem is resolved before attempting to operate on the slope again. Terrain conditions can affect traction resulting in possible loss of control of the Zero Turn Mower. Some of the conditions to be aware of are:
  - Wet terrain
  - Depressions in the ground; i.e. holes, ruts, wash-outs
  - Mounds of dirt
  - Soil type; i.e. sand, loose dirt, gravel, clay
  - Grass type, density, and height
  - Extremely dry conditions of grass
  - Tire pressure
- Watch for ditches, holes, rocks, dips and rises, which change the operating angle. Keep away from drop-offs and steep banks. Tall grass can hide obstacles. Remove obstacles such as rocks, tree limbs, etc.
- Use caution near drop-offs, ditches, or embankments. The Zero Turn Mower could suddenly turn over if a wheel goes over the edge of a cliff or ditch, or if an edge caves in.
- Mow a safe distance (minimum of 10 feet) away from drop-offs, retaining walls, drainage ditches, embankments, water, and other types of hazards to avoid a wheel dropping over the edge or to avoid the ground from breaking away.



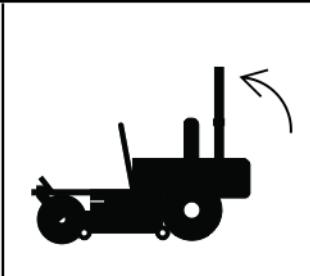
- Use a walk behind mower and/or a hand trimmer near drop-offs, ditches, steep banks or water. This area can be dangerous.
- Avoid sudden starts when mowing uphill - Zero Turn Mower may tip backwards. Always avoid sudden starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly down the slope.
- If tires lose traction, disengage the Zero Turn Mower blades and proceed slowly straight down the slope.
- Check carefully for overhead clearances (i.e. branches, doorways, and electrical wires) before driving under objects and do not contact them.
- Slow down and use extra care on hillsides. Be sure to travel side to side on hillsides. Turf conditions can affect the stability of the Zero Turn Mower. Use caution while operating near drop-offs.
- These are just a few examples of situations when caution must be used when operating on a slope. There are many other possibilities too numerous to mention. Just remember to always exercise extreme caution when operating on any slope.
- The ROPS may minimize chance of injury or death from rollover. The seat belt must be fastened while operating a Zero Turn Mower equipped with a ROPS in the raised and secured position. Both retaining pins and hair pins must be installed. Failure to use a seat belt with ROPS may result in serious injury in the event of a roll over. **PN OS-ZT-05**

SAFETY

# SAFETY

## SAFETY

### RUN OVER HAZARDS

			
Run Over Hazard	ROPS must be in raised position	Always wear seatbelt	NO Riders

#### **DANGER**

**TO AVOID DEATH OR SERIOUS INJURY FROM ZERO TURN MOWER RUN OVER, AND CRUSHING BY ZERO TURN MOWER:**

- **OPERATE IN DAYLIGHT** or with lights that gives at least 100 yards clear visibility.
- **BE ABLE TO SEE** and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects
- Keep the **ROPS** in the raised and locked position
- **ALWAYS BUCKLE UP** seat belt when operating Zero Turn Mower.
- **DISENGAGE POWER TO Zero Turn Mower BEFORE BACKING UP.** Do not mow in reverse unless absolutely necessary and then only after turning around and observing the entire area behind the Zero Turn Mower. Go slowly. Most "running over victim" accidents occur in reverse.
- **BEGINNING OPERATORS SHOULD LEARN HOW TO STEER** the Zero Turn Riding Mower before attempting to mow. Start with slow engine speed and drive without the blades engaged in open area until comfortable with the Zero Turn Mower.
- **KNOW HOW TO STOP QUICKLY.** Know the location and operation of every control, especially how to brake and how to disengage the Zero Turn Mower blades.
- **NEVER ALLOW RIDERS**
- **BE SURE THE AREA IS CLEAR** of other people before mowing. Stop Zero Turn Mower if anyone enters the area.
- Always be aware of what is behind the Zero Turn Mower before backing up. Never mow in

reverse. Always look down and behind before and while backing up.

- Slow down before turning
- Never attempt high speed maneuvering, especially in crowded or congested areas.
- Always maintain a safe distance from people and pets when mowing. Always stop Zero Turn Mower if someone enters the area.
- Use care when approaching blind corners, shrubs, trees, or other objects that may obscure your vision.

#### INSECT INFESTATION

- **DO NOT** operate in areas where bees or insects may attack unless you **WEAR PROTECTIVE CLOTHING**.

#### LIGHTNING STORMS

- Never operate the Zero Turn Mower when there is a risk for lightning. Lightning can cause severe injury or death.

PN RO-ZT-02

# SAFETY

## CHILD SAFETY

			
Run Over Hazard	Back Over Hazard	Never Allow Child As A Rider	Never Allow Children To Operate Mower

### **DANGER**

#### **AVOID DEATH OR SERIOUS INJURY TO CHILDREN FROM Zero Turn Mower RUN OVER, AND CRUSHING BY Zero Turn Mower.**

- Keep children pets and bystanders away from an operating Zero Turn Mower.
- Never allow riders on Zero Turn Mower
- **DO NOT ALLOW CHILDREN TO OPERATE ZERO TURN MOWER.**
- Do not operate the Zero Turn Mower when children or others are in the area.

#### **Children**

**Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the Zero Turn Mower and the mowing activity. Never assume that children will remain where you last saw them.**

- Never leave the Zero Turn Mower unattended with engine running, especially with children present.
- Children or bystanders may be injured if they attempt to move or to operate the Zero Turn Mower while it is unattended. Always disengage the Zero Turn Mower deck clutch, place the control levers in park brake position, and stop the engine when leaving the operator's seat.
- Keep children out of the mowing area and under the watchful care of a responsible adult other than the operator.
- Be alert and turn the Zero Turn Mower off if children enter the area.
- Before and while backing, look behind and down for small children.

- Never carry children, even with the blades off. They may fall off and be seriously injured or interfere with safe Zero Turn Mower operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the Zero Turn Mower.
- Never allow children or others in or on towed equipment.
- Use care when approaching blind corners, shrubs, trees, the end of a fence or other objects that may obscure vision.
- **ALWAYS TURN ENGINE OFF** before leaving Zero Turn Mower to prevent children and inexperienced operators from starting the engine

*PN CZ-ZT-01*

**SAFETY**

# SAFETY

## SAFETY

### FUEL & FIRE SAFETY

		
Fuel Fire and Explosion Hazards	Strike and explosion Hazard Blades Contacting Utility or Gas Lines	Do not operate near fires. Keep Zero Turn Mower deck clear of debris

#### **NOTICE OF REQUIREMENT OF SPARK ARRESTER MUFFLER**

This equipment may create sparks that can start fires around dry vegetation. California Public Resources Code Section 4442.6 provides that it is unlawful to use or operate an internal combustion engine on any forest-covered, brush-covered, or grass-covered land unless the engine is equipped with a spark arrester maintained in effective working order. A spark arrester is a device constructed of nonflammable materials specifically for the purpose of removing and retaining carbon and other flammable particles over 0.0232 of an inch in size from the exhaust flow of an internal combustion engine that uses hydrocarbon fuels or which is qualified and rated by the United States Forest Service. Other states or federal areas may have similar laws. The Operator Should Contact Local Fire Agencies For Laws or Regulations Relating to Fire Prevention Requirements.

**THIS ZERO TURN MOWER DOES NOT COME WITH A SPARK ARRESTER. YOU SHOULD CONTACT YOUR AUTHORIZED DEALER FOR THE PURCHASE OF A SPARK ARRESTER.**

Inspect spark arrester daily; replace every 500 hours or as needed.

#### **WARNING**

**TO AVOID DEATH OR SERIOUS INJURY FROM ELECTRICAL CONTACT WHEN WORKING AROUND ELECTRICAL POWER LINES, GAS LINES AND UTILITY LINES:**

- INSPECT mowing area for overhead or underground electrical power lines, obstructions, gas lines, cables and Utility, Municipal, or other type structure.
- KEEP Zero Turn Mower at a 10 feet or greater distance from all power lines and utility lines and obstructions.
- DO NOT allow Zero Turn Mower to contact with any Utility, Municipal, or type of structures and obstructions.

#### **Fire Prevention**

- Clean flammable material from Zero Turn Mower. Prevent fires by keeping the engine compartment, top of the deck, exhaust area, battery, fuel line, fuel tank and operator's station clean of accumulated trash, grass clippings, and other debris.
- Do not drive into or mow over burning grass or materials
- Always clean up spilled fuel and oil.
- Prevent fires by keeping the engine and exhaust areas clear of grass clippings and other debris. Do not back Zero Turn Mower into flammable materials.
- Allow the Zero Turn Mower, especially the engine, to cool before storing inside a building.

*PN FF-ZT-01*

# SAFETY

## FUEL & FIRE SAFETY - CONTINUED

		
Fuel Fire and Explosion Hazards	Strike and explosion Hazard Blades Contacting Utility or Gas Lines	Do not operate near fires. Keep Zero Turn Mower deck clear of debris

### Fuel Handling Precautions

- To avoid personal injury or property damage, use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive.
- A fire or explosion from gasoline can burn you and others and can damage property.
- Observe all usual gasoline handling precautions:
- Do not smoke while refueling. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- NEVER REFUEL A Zero Turn Mower INDOORS
- Do not remove fuel cap or fill tank with engine running or while engine is hot. Clean up any gasoline spills.
- If gasoline is spilled, do not attempt to start the engine but move the Zero Turn Mower away from the area of spillage and avoid creating any source of ignition until gasoline vapors have dissipated.
- Keep gasoline away from open flame or spark and store Zero Turn Mower away from open flame or spark or pilot light such as on a water heater or appliances.
- Refuel outdoors. Never refuel or drain the gasoline from the Zero Turn Mower indoors.
- Never attempt to start the engine when there is a strong odor of gasoline fumes present. Locate and correct the cause.

- Store gasoline in an approved container and keep it out of the reach of children. Never buy more than a 30-day supply of gasoline.
- Do not fill fuel containers inside a vehicle or on a truck or trailer bed with interior carpets or plastic truck bed liners. Always place gasoline containers on the ground away from your vehicle before filling.
- When practical, remove the Zero Turn Mower from the truck or trailer and refuel the Zero Turn Mower with its wheels on the ground. If this is not possible, then refuel Zero Turn Mower on the truck or trailer using a portable container and not a fuel dispenser nozzle. If a fuel dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
- Never use gasoline for cleaning parts.
- Avoid prolonged breathing of vapors
- Long-term exposure to vapors can cause serious injury and illness.
- Keep gasoline away from eyes and skin.
- Keep face away from nozzle and fuel tank or fuel container opening.
- If gasoline is spilled on clothing, change clothing immediately.
- Do not overfill the fuel tank. Replace the fuel cap and tighten securely.

PN FF-ZT-02

SAFETY

# SAFETY

## SAFETY

### MAINTENANCE SERVICE AND STORAGE SAFETY

Periodically inspect all moving parts, and tighten all fasteners	Stop engine remove key before conducting maintenance	Use jack stands to support zero turn mower before servicing. Use wheel chocks to keep from rolling back. Engage parking brake.	Inspect Blades for damage or cracks



**AVOID DEATH OR SERIOUS INJURY FROM COMPONENT FAILURE BY KEEPING ZERO TURN MOWER IN GOOD OPERATING CONDITION IN PERFORMING PROPER SERVICE, REPAIRS AND MAINTENANCE.**

#### BEFORE PERFORMING SERVICE, REPAIRS AND MAINTENANCE ON THE Zero Turn Mower:

##### SECURE EQUIPMENT FOR SERVICE

##### BLOCK OUT POTENTIAL ENERGY HAZARDS; Rotating Parts, Raised Components, Hydraulic Pressure.

- Disengage drives, set the parking brake, stop the engine, or disconnect spark-plug wire. Wait for all movement to stop before adjusting, cleaning, or repairing. Let engine cool and disconnect the spark plugs so the engine cannot start by accident.
- PLACE Zero Turn Mower on ground or securely block up raised Zero Turn Mower.
- Use jack stands to support components when required. Use wheel chocks to keep unit from rolling back.
- Do not run an engine in an enclosed area.
- Disconnect the battery or remove the spark-plug wire before making any repairs. Disconnect the negative terminal first and the positive terminal last. Connect the positive terminal first and negative last.

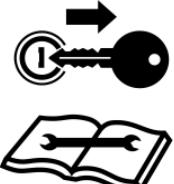
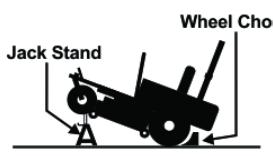
**WEAR SAFETY GLASSES with side shields (marked ANSI Z87), PROTECTIVE GLOVES and follow SAFETY PROCEDURES when performing service, repairs and maintenance on the Zero Turn Mower:**

- Always WEAR protective GLOVES when handling chemicals or worn component with sharp edges.
- AVOID CONTACT with hot hydraulic oil tanks, pumps, motors, valves and hose connection surfaces.
- SECURELY support or BLOCK UP raised Zero Turn Mower, framework and lifted components before working underneath Zero Turn Mower.
- STOP any Zero Turn Mower movements and SHUT-OFF MOWER engine before doing any work procedures.
- DO NOT change any factory-set hydraulic calibrations to avoid component or Zero Turn Mower failures.
- DO NOT modify or alter Zero Turn Mower, functions or components.
- DO NOT WELD or repair rotating Zero Turn Mower components. These may cause vibrations and component failures being thrown from Zero Turn Mower.
- DO NOT change the engine governor setting or over speed the engine.

*PN MS-ZT-01*

# SAFETY

## MAINTENANCE SERVICE AND STORAGE SAFETY - CONTINUED

			
Periodically inspect all moving parts, and tighten all fasteners	Stop engine remove key before conducting maintenance	Use jack stands to support zero turn mower before servicing. Use wheel chocks to keep from rolling back. Engage parking brake.	Inspect Blades for damage or cracks

### **PERFORM SERVICE, REPAIRS, LUBRICATION AND MAINTENANCE OUTLINED IN ZERO TURN MOWER MAINTENANCE SECTION:**

- Clean grass and debris from the cutting unit, drives, mufflers, and engine to help prevent fires.
- Carefully release pressure from components with stored energy
- **INSPECT** for loose fasteners, worn or broken parts, leaky or loose fittings, missing or broken cotter keys and washers on pins, and all moving parts for wear.
- **REPLACE** any worn or broken parts with authorized service parts.
- **LUBRICATE** unit as specified by lubrication schedule
- **NEVER** lubricate, adjust or remove material while it is running or in motion.
- **TORQUE** all bolts and nuts as specified.

### **BLADE INSPECTION:**

- Use care when checking the blades. Wrap the blade(s) or wear thickly padded gloves, and use caution when servicing them. Only replace blades; do not straighten or weld them.
- **REPLACE** bent, damage, cracked or broken blades immediately with new blades.
- **AVOID** blade failures and thrown broken blades. **DO NOT** straighten, weld, or weld hard-facing blades.

### **SAFETY SHIELDS, GUARDS AND SAFETY DEVICES INSPECTION:**

- **KEEP** all Deflector Chute, Integral Shields, Side Skirts and Anti Scalp Rollers in place and in good condition.
- **REPLACE** any missing, broken or worn safety shields, guards and safety devices. If any of the safety switches become inoperable, have them repaired immediately.



### **WARNING**

Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

PN MS-ZT-02

# SAFETY

## SAFETY

### HIGH PRESSURE OIL LEAK HAZARD



High pressure oil penetrating skin



High pressure oil eroding skin



Using cardboard to check for oil leaks



#### **TO AVOID DEATH OR SERIOUS INJURY FROM HIGH PRESSURE HYDRAULIC OIL LEAKS PENERATING SKIN:**

- **DO NOT OPERATE** equipment with oil or fuel leaks.
- **KEEP** all hydraulic hoses, lines and connections in **GOOD CONDITION** and **TIGHT** before applying system pressure.
- **RELIEVE HYDRAULIC PRESSURE** before disconnecting lines or working on the system.
- **REMOVE** and replace hose if you suspect it leaks. Have dealer test it for leaks.

#### **HIGH PRESSURE FLUID LEAKS CAN BE INVISIBLE.**

#### **WHEN CHECKING FOR HYDRAULIC LEAKS AND WORKING AROUND HYDRAULIC SYSTEMS:**

- **ALWAYS WEAR** safety glasses with side shields (marked with ANSI Z87) and impenetrable gloves.
- **USE** paper or cardboard to search for leaks.
- **DO NOT USE** hands or body parts to search for leak.
- **KEEP** hands and body **AWAY** from pin holes and nozzles ejecting hydraulic fluid.
- Injected Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury.      *PN HP01*

# SAFETY

## BATTERY SERVICE PRECAUTIONS

					
Always wear eye protection when servicing battery.	No Smoking No Open Flame near battery when charging.	Hydrogen gas inside battery may cause an explosion if exposed to a spark or flame.	Charge batteries in a ventilated area away from sparks and flames.	Metal tools can short between battery terminals and metal mower parts.	Avoid skin and clothing contact with battery acid.

### **WARNING**

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

- Charge batteries in a well-ventilated open area, away from sparks and flames. Unplug charger before connecting or disconnecting from battery. Wear protective clothing and use insulated tools.
- Avoid skin and clothing contact with battery acid.
- Do not drink the battery electrolyte.
- Always wear eye protection when checking the battery. Acid can cause serious injury to skin and eyes. If contact occurs, flush area with clean water and call a physician immediately. Acid will also damage clothing.
- Do not allow open flame near the battery when charging.
- Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to flame. Always disconnect the negative (black) battery cable(s) before disconnecting the positive (red) cable(s). Always connect the positive (red) battery cable(s) before connecting the negative (black) cable(s).
- Do not overfill the battery.
- Electrolyte may overflow and damage paint, wiring or structure. When cleaning the battery, use soap and water. Be careful not to get soap

and water into the battery. Clean the battery terminals with a solution of four parts water and one part baking soda when they become corroded.

- Shorts caused by battery terminals or metal tools touching metal mower components can cause sparks. Sparks can cause a battery gas explosion which will result in personal injury.
- Prevent the battery terminals from touching any metal mower parts when removing or installing the battery.
- Do not allow metal tools to short between the battery terminals and metal mower parts.
- Incorrect battery cable routing could cause damage to the mower and battery cables. This can cause sparks which can cause a battery gas explosion which will result in personal injury.
- Always disconnect the negative (black) battery cable(s) before disconnecting the positive (red) cable(s).
- Always connect the positive (red) battery cable(s)

*PN BS-ZT-03 SP*

**SAFETY**

# SAFETY

## SAFETY

### **DRIVING AND TRANSPORTING ON PUBLIC ROADS**

Check applicable road traffic regulations before transporting on public roads. If the Zero Turn Mower is transported, you must always use approved fastening equipment and ensure that the Zero Turn Mower is well anchored. DO NOT operate this Zero Turn Mower on public roadways.

- Always observe traffic laws while driving mower from one location to another. Watch for traffic when operating near or crossing roadways.
- WATCH OUT FOR TRAFFIC near roadways and when crossing roads.
- THIS ZERO TURN MOWER IS NOT MEANT FOR HIGHWAY OR STREET USE. It is not a recreational vehicle and it should not be operated as such.

#### **Hauling**

- Use care when loading or unloading the Zero Turn Mower into a trailer or a truck.
- Use full-width ramps for loading Zero Turn Mower into a trailer or a truck.
- Tie the Zero Turn Mower down securely using straps, chains, cable, or ropes. Both front and rear straps should be directed down and outward from the Zero Turn Mower.

#### **Using A Ramp**

- Exercise extreme caution when loading and unloading a Zero Turn Mower onto a truck or trailer with a ramp.
- Use only a single, full width ramp; do not use individual ramps for each side of the unit. Having a full width ramp provides a surface for the Zero Turn Mower frame to contact if the unit starts to tip backwards. It also reduces the risk of a wheel going off and the Zero Turn Mower tipping over.
- Do not exceed a 15 degree angle between the ramp and the ground or between the ramp and the trailer or truck.
- Avoid sudden acceleration when on a ramp.      *PN TH-ZT-02*

# SAFETY

## **PARTS INFORMATION**

### **PARTS INFORMATION**

Dixie Chopper Zero Turn Mowers use balanced and matched system components for blade components and bearings. These parts are made and tested to Dixie Chopper specifications. Non-genuine "will fit" parts do not consistently meet these specifications. The use of "will fit" parts may reduce Zero Turn Mower performance, void warranties, and present a safety hazard. Use genuine Dixie Chopper mower parts for economy and safety.

**SEE YOUR DIXIE CHOPPER DEALER**

Operator's & Parts Manuals



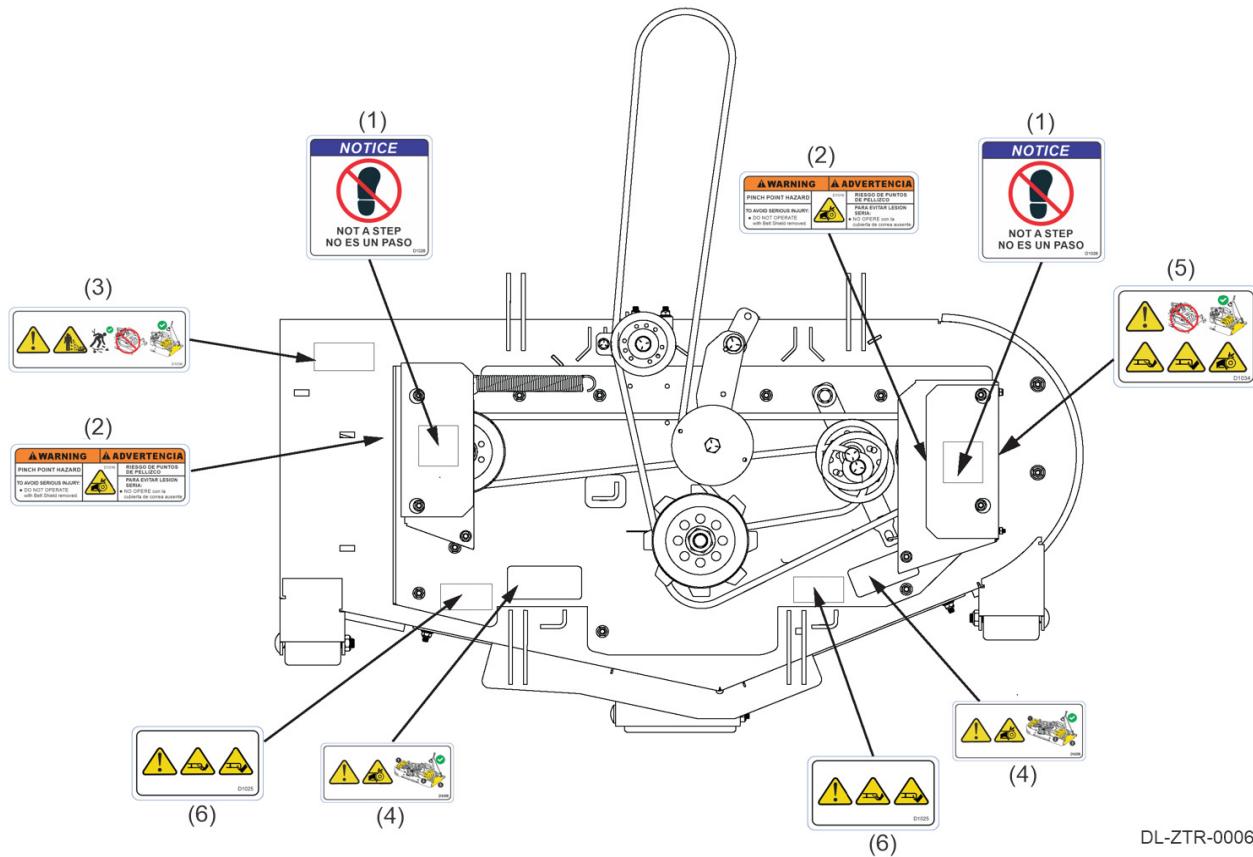
[www.algqr.com/dpm](http://www.algqr.com/dpm)

**SAFETY**

# SAFETY

## SAFETY

### DECAL LOCATION MOWER DECK

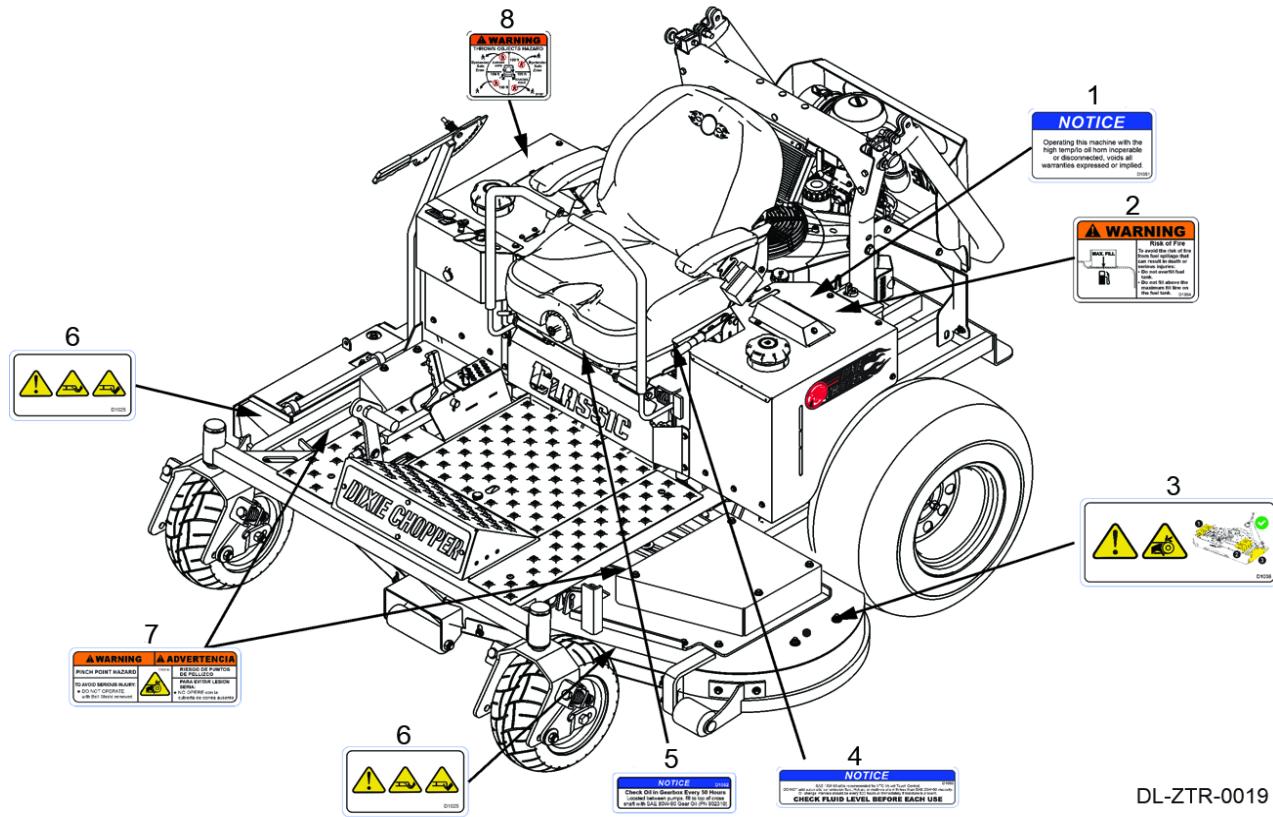


DL-ZTR-0006

ITEM	PART NO.	QTY	TYPE	DESCRIPTION
1.	D1026	2	NOTICE	No Step
2.	D1016	2	WARNING	Pinch Point Hazard
3.	D1036	1	WARNING	Thrown Object Hazard
4.	D1038	2	WARNING	Keep Guards In Place
5.	D1034	1	WARNING	Do Not Remove Shields
6.	D1025	2	WARNING	Keep Away - Blade Rotation Hazard

# SAFETY

## DECAL LOCATION POWER UNIT

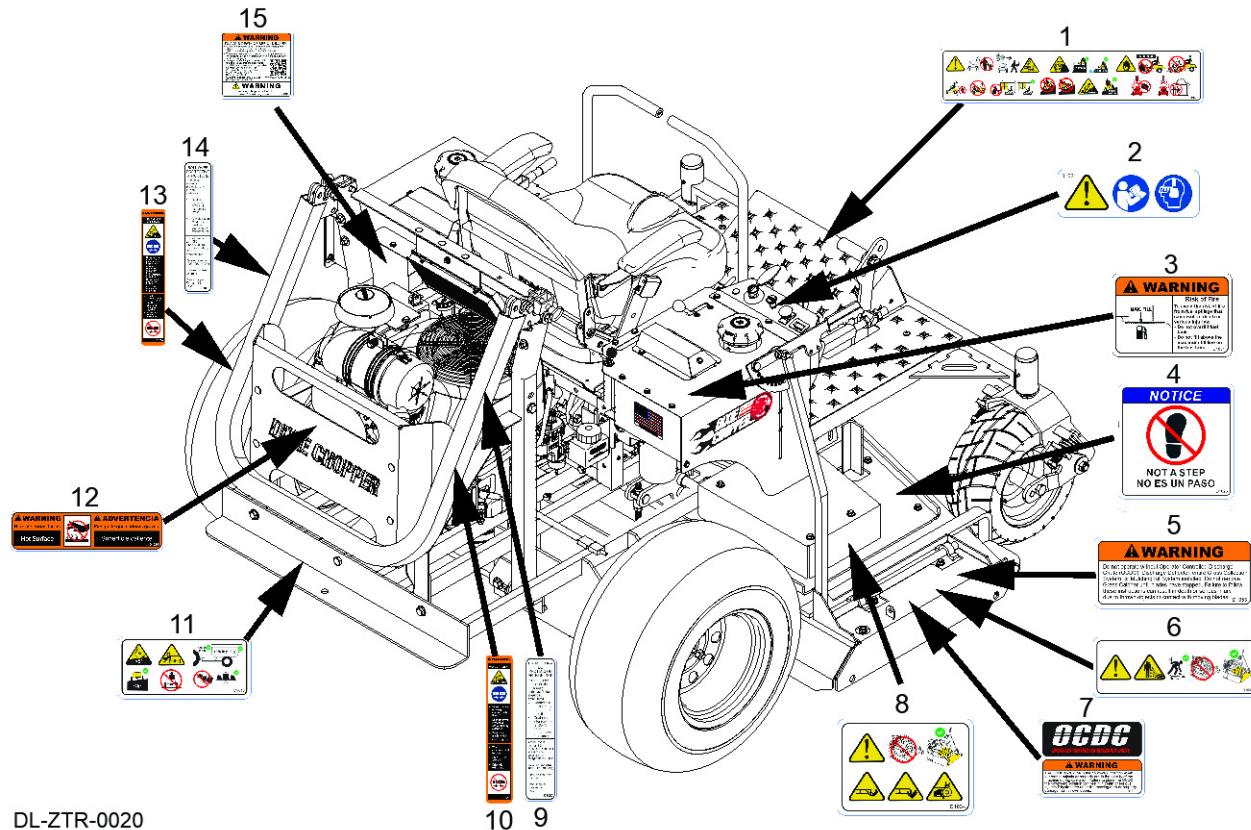


ITEM	PART NO.	QTY	TYPE	DESCRIPTION
1.	D1051	1	NOTICE	Voided Warranty
2.	D1054	1	WARNING	Risk of Fire - Do Not Overfill Fuel
3.	D1038	1	WARNING	Keep Guards In Place
4.	D1050	1	NOTICE	Check Fluid Level
5.	D1052	1	NOTICE	Check Gearbox Oil
6.	D1025	2	WARNING	Keep Away - Blade Rotation Hazard
7.	D1016	2	WARNING	Pinch Point Hazard
8.	D1061	1	WARNING	Thrown Objects Hazard

# SAFETY

## SAFETY

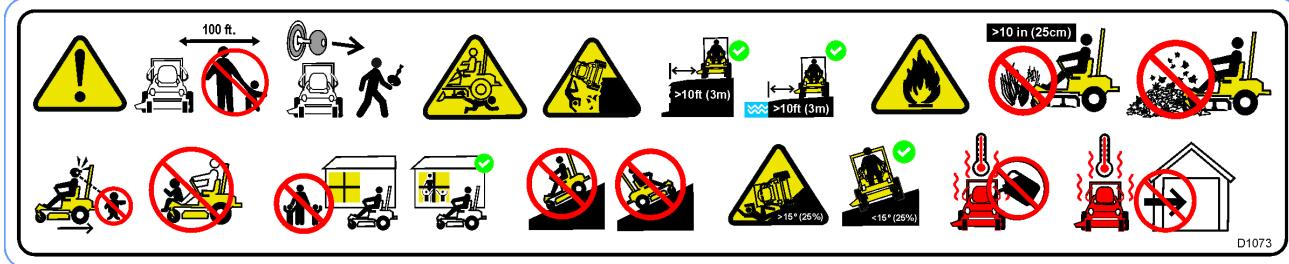
### DECAL LOCATION POWER UNIT



ITEM	PART NO.	QTY	TYPE	DESCRIPTION
1.	D1073	1	WARMING	Multi-Hazard
2.	D1021	1	WARNING	Read Operation Manual
3.	D1054	1	WARNING	Risk of Fire - Do Not Overfill Fuel
4.	D1026	1	NOTICE	No Step
5.	D1053	1	WARNING	Do Not Operate without OCDC
6.	D1036	1	WARNING	Thrown Object Hazard
7.	D1055	1	WARNING	OCDC in Down Position
8.	D1034	1	WARNING	Do Not Remove Shields
9.	D1057	1	INSTRUCT	Maintain ROPS - Spanish
10.	D1029	1	WARNING	Crushing Hazard - Use ROPS/Seatbelt
11.	D1015	1	WARNING	Towing Hazard
12.	D1028	1	WARNING	Hot Surface Hazard
13.	D1030	1	WARNING	Crushing Hazard - Spanish
14.	D1056	1	INSTRUCT	Maintain ROPS - English
15.	D1017	1	WARNING	Use Genuine Dixie Chopper Parts

# SAFETY

## MOWER DECALS



**WARNING**

**- AVOID TIP-OVER/ROLL-OVER INJURY**

Do not operate machine on a slope greater than 15° (25%). Do not mow up or down slopes, only mow across slopes that are less than 15 degrees (25%). Use low speeds and avoid sudden turns on slopes. Stay at least 10 feet (3 meters) from drop-offs, ditches, embankments or the edge of water.

**WARNING**

#### **- AVOID FIRES**

Your tractor is designed to cut normal residential grass of a height no more than 10" (25cm). Do not attempt to mow through unusually tall, dry grass (e.g., pasture) or piles of dry leaves. Allow a tractor to cool at least five minutes before fueling or storing inside an enclosed garage or storage shed.

**WARNING**

**- AVOID CHILD BACKOVER/  
RUNOVER/BLADE INJURY**

To avoid back-over accidents, always look behind and down for small children. Never carry children, even with the blade(s) shut off. Keep bystanders, children and pets inside during operation under the watchful care of a responsible adult other than the operator. Stop tractor if anyone enters the area.

# SAFETY

## SAFETY

### WARNING

#### - READ OPERATOR'S MANUAL - WEAR HEARING PROTECTION

Read, understand and follow all the safety rules and instructions in the manual(s) and on the tractor before attempting to operate this tractor. Failure to comply with this information may result in personal injury or death. Keep this manual in a safe location for future and regular reference. Using a Smart Phone, scan the QR code symbol to learn more information concerning the warnings contained on this tractor. You can also go to [www.OPESymbol.com](http://www.OPESymbol.com) for more information.



[www.algqr.com/dpm](http://www.algqr.com/dpm)

### WARNING

#### - AVOID THROWN OBJECTS INJURY

Keep helpers at least 75' (23 meters) from machine during operation. Remove all stones, sticks, wire, bones, toys, and other foreign objects which could be picked up and thrown by the blade(s). Do not operate the tractor without the discharge cover or entire grass catcher in its proper place



D1036

### WARNING

#### - AVOID TOWING RELATED INJURY

Do not tow a load that exceeds 250 lbs (113 kg) rolling weight and never exceed 50 lbs (22kg) tongue weight. Never allow children or others in or on towed equipment. Do not tow on slopes greater than 5 degrees (9%). On slopes, the weight of the towed equipment may cause loss of traction, loss of control and/or loss of the ability to stop. Travel slowly and allow extra distance to stop.



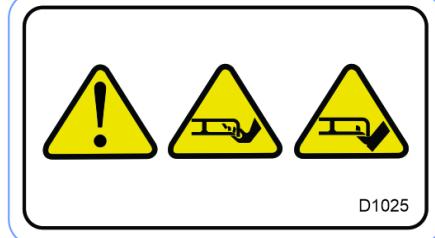
D1015

# SAFETY

## WARNING

### - AVOID AMPUTATION INJURY

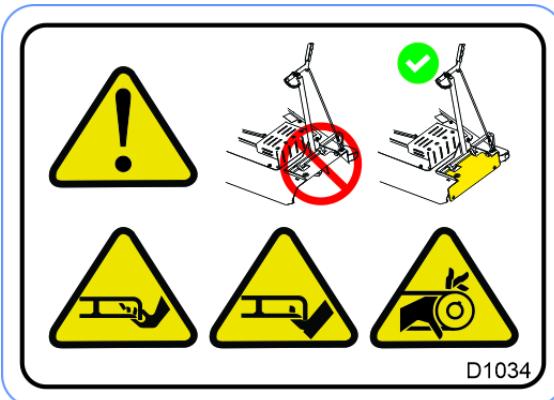
Do not put hands or feet near or under the cutting deck. Contact with the blade(s) can amputate hands and feet.



## WARNING

### - AVOID AMPUTATION INJURY

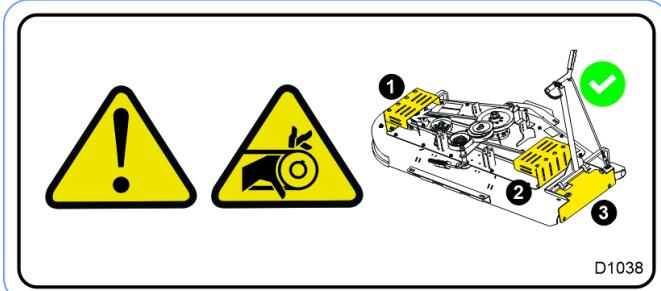
Do not put hands or feet near rotating parts or under the cutting deck. Contact with the blade(s) can amputate hands and feet. Ensure that all safety devices (guards, shields, switches, etc.) are in place and working. Belt and/or blade spindle contact can crush or injury body parts.



## WARNING

### - AVOID AMPUTATION INJURY

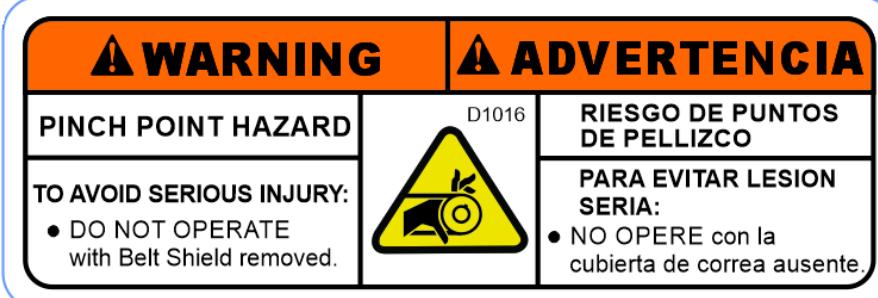
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SAFETY

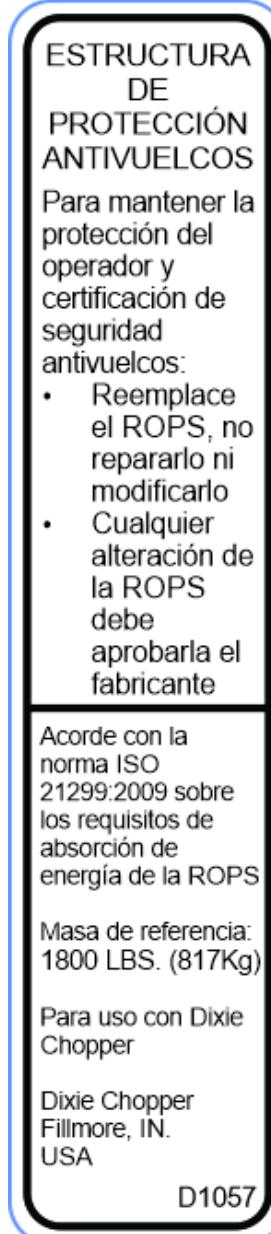
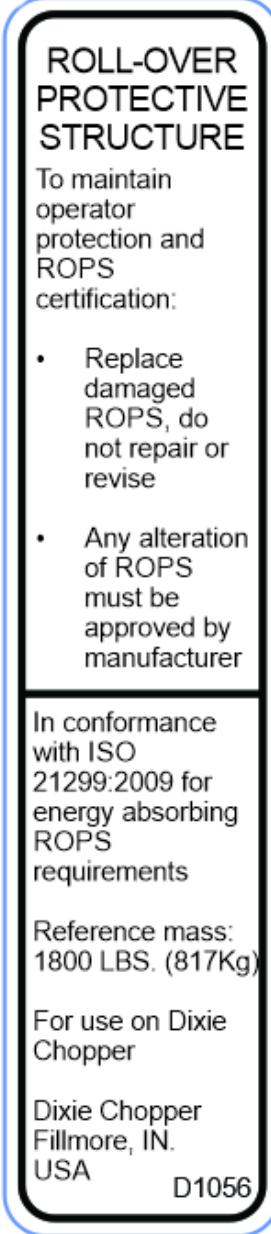
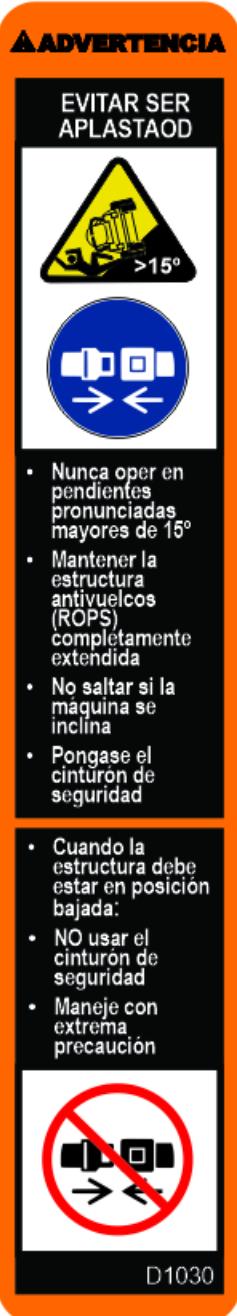
# SAFETY

## SAFETY



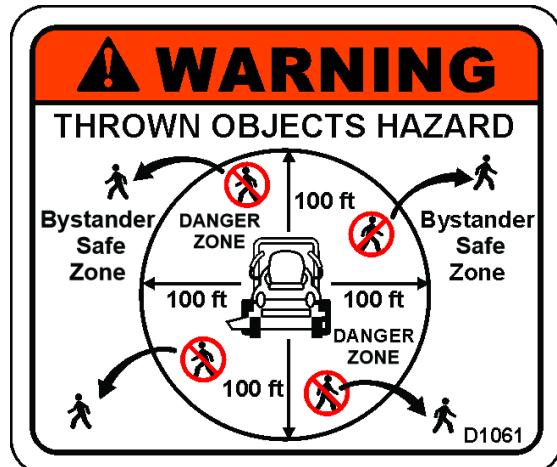
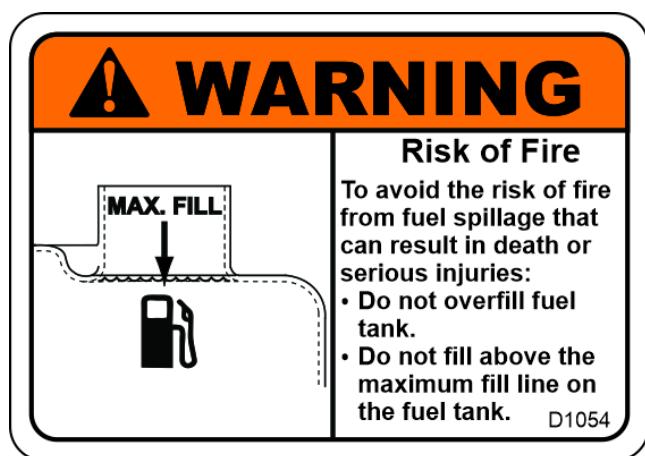
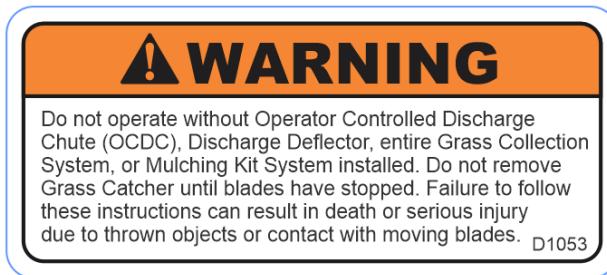
# SAFETY

## SAFETY



# SAFETY

## SAFETY



# SAFETY

## FEDERAL LAWS AND REGULATIONS

### CONCERNING EMPLOYERS, EMPLOYEES AND OPERATIONS

This section is intended to explain in broad terms the concept and effect of federal laws and regulations. This section is not intended as a legal interpretation of the law and should not be considered as such.

U.S. Public Law 91-596 (The Williams-Steiger Occupational and Health Act of 1970) OSHA

#### **This Act Seeks:**

“...to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources...”

#### **DUTIES**

Sec. 5 (a) Each employer-

- (1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
- (2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations and orders issued pursuant to this Act which are applicable to his own actions and conduct.

### OSHA REGULATIONS

Current OSHA regulations state in part: “At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved. “These will include (but are not limited to) instructions to:

***Keep all guards in place when machine is in operation;***

Permit no riders on equipment;

Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain the equipment.

Make sure everyone is clear of machinery before starting the engine, engaging power, or operating the machine.

### Child Labor Under 16 Years Old

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin #102.)

SAFETY



# **INTRODUCTION SECTION**

Introduction Section 2-1

## INTRODUCTION

We are pleased to have you as a Dixie Chopper customer. Your Dixie Chopper Zero Turn Riding Mower has been carefully designed with care and built with quality materials by skilled workers to give maximum service with minimum down time. This manual is provided to give you the necessary operating and maintenance instructions for keeping your mower in top operating condition. Careful use and timely service saves extensive repairs and costly downtime losses. Please read this manual thoroughly. Understand what each control is for and how to use it.

No shielding is 100% effective in preventing thrown objects. The possibility of injury and property damage from this hazard can be substantially reduced by selecting proper shielding, maintaining the mower and shielding in good operational condition, inspecting the area for foreign debris before mowing, operating the mower at a minimum cutting height, Keep unprotected persons at a minimum distance of 300 feet from the mower at all times during operation.

Safety is of primary importance to the owner/operator and to the manufacturer. Observe all safety precautions detailed on the machine and noted throughout the manual for safe operation of implement. If any assistance or additional information is needed, contact your authorized Dixie Chopper dealer. The owner/operator/dealer should know and understand the Safety Messages before assembly and be aware of the hazards of operating this cutter 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.



**DANGER** Indicates an imminently hazardous situation that, if not avoided, WILL result in DEATH OR VERY SERIOUS INJURY.



**WARNING** Indicates an imminently hazardous situation that, if not avoided, COULD result in DEATH OR SERIOUS INJURY.



**CAUTION** Indicates an imminently hazardous situation that, if not avoided, MAY result in MINOR INJURY.



**Important** Identifies special instructions or procedures that, if not strictly observed, could result in damage to, or destruction of the machine, attachments or the environment.

# INTRODUCTION

## INTRODUCTION



The Dixie Chopper Zero Turn is intended for use on lawns and other frequently maintained areas where a smooth, even cut is desired and superior maneuverability is needed. The Power Units used are Kawasaki engines for all Models 2750KW, 2760KW, 3560KW, and 3572KW.

The industry's best cutting deck available in 50", 60" and 72" cutting widths for maximum productivity. The Classic is the ultimate mowing machine with the perfect combination of commercial quality with industrial features.

Our heavy-duty drivetrain of pumps and wheel motors increases ground speed up to 13 mph to mow over 7 acres per hour.

An extra wide wheelbase assists in hillside performance and overall ride quality. The suspension seat and unique Springer Forks make the Classic the smoothest riding mower on the market today.

Worry-free lifetime warranties on the frame, stainless steel, front forks, steering levers, and front caster bearings.

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

# INTRODUCTION

## ENGINE SPECIFICATIONS

Classic	2750KW / 2760KW / 3560KW / 3572KW
Make	Kawasaki
Model	2750KW / 2760KW - FX1850V 3560KW / 3572KW - FX1000V
Type	Four cycle, air cooled, V-Twin, OHV
Number of Cylinders	2
Bore & Stroke	2750KW / 2760KW - 3.33 x 2.99 in. (84.5 x 7.6 cm) 3560KW / 3572KW - 3.5 x 3.15 in. (8.915 x 8.0 cm)
Total Displacement	2750KW / 2760KW - 52 in <sup>3</sup> (0.852 l) 3560KW / 3572KW - 61 in <sup>3</sup> (0.999 l)
Intake System	Naturally Aspirated
Gross Intermittent Power @ 3600 RPM	27.0 hp (17.2 kW) 35.0 hp (26.1 kW)
Compression Ratio	8.2:1
Maximum Speed	3600 ± 100 rpm (No Load)
Low Idle	1550 ± 100 rpm (No Load)
Rotation	Clockwise viewed at flywheel
Fuel System	Twin Barrel internally vented float type fixed main jets Carburetor
Fuel	87 Octane Gasoline Maximum 10% Ethanol
Ignition System	Flywheel Magneto Transistor Type
Spark Plug	2750KW / 2760KW - NGK BPR4ES 3560KW / 3572KW - NGK BPR5ES
Spark Plug Gap	0.030 inch (0.76 mm)
Engine Oil (API Class)	SF, SG, SH, SJ or SL
Oil Pan Capacity	2.1 Quarts (2 l)
Starter	12 Volt Solenoid Shift Electric Start
Alternator	2750KW / 2760KW - 12 Volt, 20 Amp 3560KW / 3572KW - 12 Volt, 15 Amp
Dry Weight	2750KW - 124 lb. (56.4 kg) 3560KW / 3572KW - 138 lb. (62.6 kg)
Dimensions (Length x Width x Height)	2750KW / 2760KW - 18.9 x 18.1 x 24.2 in. (48 x 46 x 61.5 cm) 3560KW / 3572KW - 19.1 x 19.3 x 24.2 in. (48.6 x 48.9 x 61.4 cm)

# INTRODUCTION

## INTRODUCTION

### TRACTOR SPECIFICATIONS Classic

#### Model 2750KW, 2760KW, 3560KW, 2572KW

2750KW Engine.....	27HP Kohler, 50" Deck
2760KW Engine.....	27HP Kawasaki, 60" Deck
3560KW Engine.....	35HP Kawasaki, 60" Deck
3572KW Engine.....	35HP Kohler, 72" Deck
Drive System (Pumps).....	Hydro-Gear® 16cc 2750KW, 2760KW, 3560KW Hydro-Gear® 21cc 2572KW
Parking Brake .....	Hand Lever connected to brake on drive motors
Towing Capacity.....	250 lbs.
Fuel Capacity (In Twin Tanks).....	8 Gallons (2 x 4) - 2750KW & 2760KW 11 Gallons (1 x 6, 1 x 4) - 3560KW 12 Gallons (2 x 6) - 3572KW
Tires (All Models) .....	Front - 15 x 6-8 Rear - 25 x 12-12 - Grassmaster
Battery .....	12 Volt, 300cca
Seat .....	Full suspension, adjust. seat w/armrest

### DECK SPECIFICATIONS

Cutting Width	50"	60"	74"
Cutting Height	1-1/4" to 5" in 1/4" increments		
Blades	17"	20-1/2	24"
Maximum Width	55.5"	65.5"	76"
Deck Material thickness	7 GA	7GA	7GA
Spindle Housing	Peer® Turf Extreme™ ductile iron (sealed)		
Spindles	1.25" effective diameter machined shaft		
Anti-scalp rollers	6	6	6

### OPTIONAL EQUIPMENT

Sunshade
Light Kit
Mulch Kit
Magic Mulcher, Whiz Mow - All Models
PECO® Pro 12 DFS Bagger
Turf Boss Tires
Run Flat Tires
Dual Blade Kit
Springer Forks
Electric Deck Lift

# INTRODUCTION

## MOWER SPECIFICATION

Cutting Unit Drive:	12V, 300CCA
Service Brake:	Dynamic braking through the traction circuit
Parking Brake:	Hand lever connected to brake on drive motors
Fuel Tank:	2750KW/2760KW Two 4 Gallon Tanks 3560KW One 6 gallon Tank and One 4 Gallon Tank 3572KW Two 5 Gallon Tanks
Steering:	Hand lever speed and direction controls for left and right rear wheel
Traction Drive:	
2750, 2760, 3560 (KW)	Two 0.97 in <sup>3</sup> (16 cm <sup>3</sup> ) hydrostatic drive pumps and 17.1 in <sup>3</sup> (280 cm <sup>3</sup> ) drive motors
3572KW	Two 1.28 in <sup>3</sup> (21 cm <sup>3</sup> ) hydraulic drive pumps and 20.6 in <sup>3</sup> (337 cm <sup>3</sup> ) drive motors
Cutting Unit Drive:	Belt Drive with electric clutch
Ground Speed:	0-12 mph (0-193 kph. (2750KW, 2760KW, 3560KW) 0-13 mph (0-20.92 kph) (3572KW)
Cutting Performance:	
2750KW:	Up to 4.6 acres/hr. (1.86 hectares/hr @ 8mph (12.87 km/hr)
2760KW:	Up to 5.2 acres/hr. (2.10 hectares/hr @ 8 mph (12.87 km/hr)
3160KW:	Up to 5.4 acres/hr. (2.18 hectares/hr @ 8 mph (12.87 km/hr)
3572KW:	Up to 6.25 acres/hr. (2.63 hectares/hr) @ 8 mph (12.87 km/hr)

## CUTTING UNIT SPECIFICATION

	2750KW	2760KW / 3560KW	3572KW
Blade Length	17 inch (43.2 cm)	20-1/2 inch (52.1 cm)	24 inch (61 cm)
Number of Blades	3	3	3
Height of Cut	1-1/4 to 5 in. (3.2 to 12.7 cm) in 1/4in (0.63 cm) increments		
Height of Cut Adjustment	A foot lever to lift or lower the cutting unit with a HOC pin installed in different holes for specified HOC.		
Blade Tip Speed @ 3600 rpm Engine Speed	313.3 feet/second (95.5 meters/second)	285.7 feet/second (87.1 meters/second)	293.95 feet/second (89.6 meters/second)

# INTRODUCTION

## BELT SPECIFICATION

Traction Belt Part Number 200919, A-Section, Raw 44 in EL Belt  
50 in. Engine to Deck Belt Part Number 2010B85W, B-Section, Wrapped, 85 in. EL Belt  
50 in. Deck Belt Part Number 2006B112R B-Section, Raw, 112 in. EL Belt  
60 in. Engine to Deck Belt Part Number 2010B88W, B-Section, Wrapped, 88 in. EL Belt  
60 in. Deck Belt Part Number 2006B130R. B-Section., Raw, 130 in. EL Belt  
72 in. Engine to Deck Belt Part Number 2010B89W. B-Section, Wrapped, 89 in. EL Belt  
72 in. Deck Belt Part Number 2006B160R. B-Section, Raw, 160 in. EL Belt

## RECOMMENDED LUBRICANTS

### **Engine Oil**

**Kawasaki Engine: API Classification Grades SF, SG, SH, SJ or SL**

Temperature	Viscosity
Above 95° F (35° C)	SAE 40 or SAE20W-50 or SAE 10W-40
68° to 95° F (20° to 35° C)	SAE 40 or SAE 30 or SAE 20W-50 or SAE 10W-40 or SAE 10W-30
50° to 68° F (10° to 20° C)	SAE 30 or SAE 20W-50 or SAE 10W-40 or SAE 10W-30
32° to 50° F (0° to 10° C)	SAE 20W-50 or SAE 10W-40 or SAE 10W-30
14° to 32° F (-10° to 0° C)	SAE 10W-40 or SAE 10W-30 or SAE 5W-20
Below 14° F (-10° C)	SAE 5W-20

### **Drive Axle Fluid:**

The standard drive system fluid SAE 15W-40 API Classification SL.

### **Gearbox Oil:**

SAE80W90 (Dixie Part Number 902310)

**Grease:** Texaco Starplex 2EP Moly (NLGI Grade 2 EP Lithium Complex Grease containing Molybdenum Disulfide) or equivalent.

# INTRODUCTION

## DIMENSIONS AND WEIGHTS

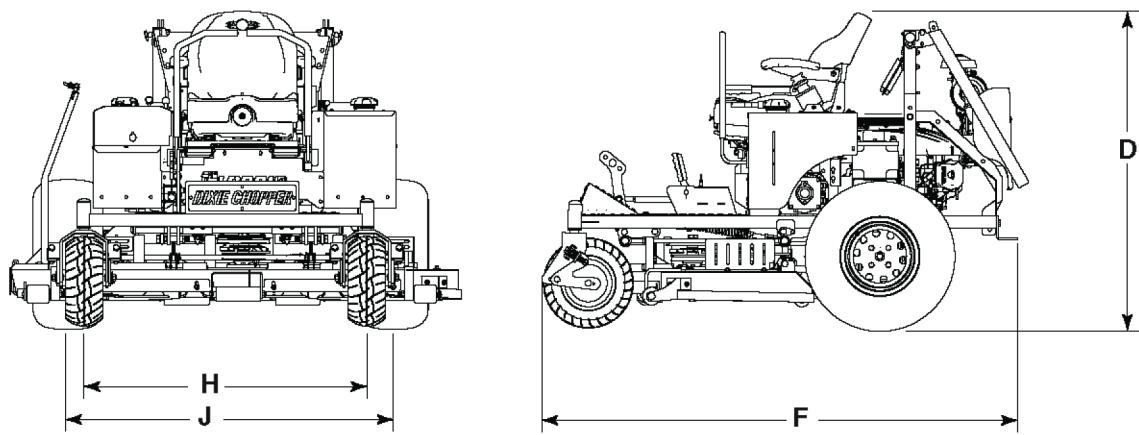
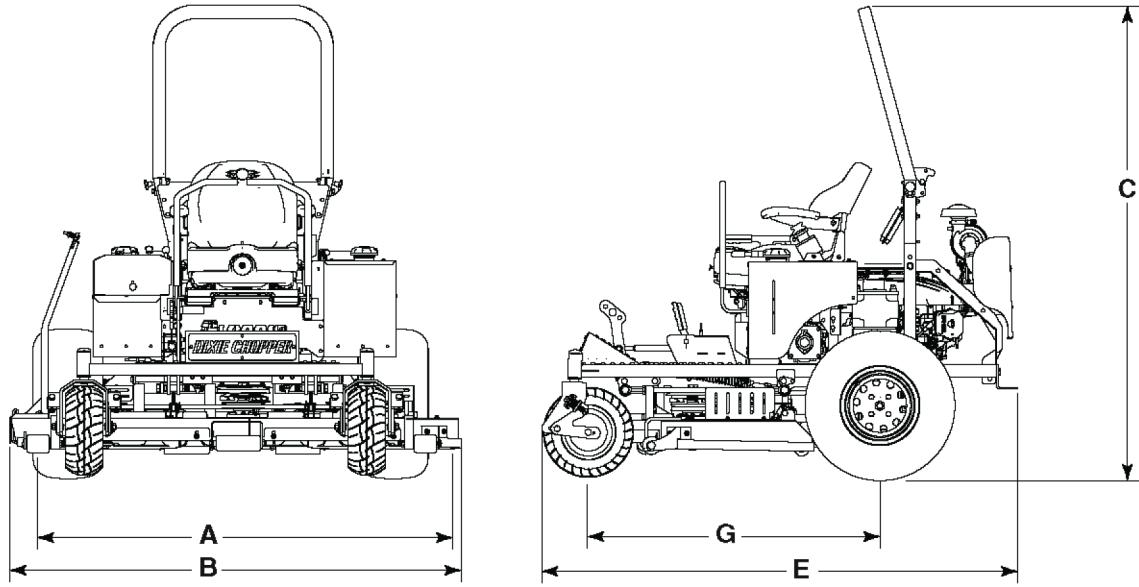
	2750KW	2760KW / 3160KW	3572KW
A - Width of Cut	50 inch (127 cm)	60 inch (152.4 cm)	72 inch (182.9 cm)
B - Maximum Width	55.5 inch (141.0 cm)	65.5 inch (166.4 cm)	76 inch (193 cm)
C - Height (ROPS Up)	79 inch (200.7 cm)		
D - Height (ROPS Folded)	53 inch (134.6 cm)		
E - Total Length (ROPS Up)	77.5 inch (196.9 cm)	78 inch (198.1 cm)	79 inch (200.7 cm)
F - Total Length (ROPS Folded)	100 inch (254 cm)		
G - Wheel Base	46.4 inch (117.9 cm)		48.5 inch (123.2 cm)
H - Front Wheel Track	38.2 inch (97.0 cm)	47.2 inch (119.9 cm)	
J - Rear Wheel Track	42.5 inch (107.95 cm)	54.1 inch (137.4 cm)	
Weight of Unit	1074 lb. (487.2 kg)	2760KW 1134 lb. (514.4 kg) 3560KW 1228lb. (557 kg)	1425 lb. (646.4 kg)

## TIRE SPECIFICATIONS

Front Wheel			Rear Wheel		
Tire Size	Type	Tire Pressure	Tire Size	Type	Tire Pressure
15 x 6-8		Foam Filled	25 x 12-12	Grass Master	8-10 psi (0.55-0.69 BAR)

# INTRODUCTION

## INTRODUCTION



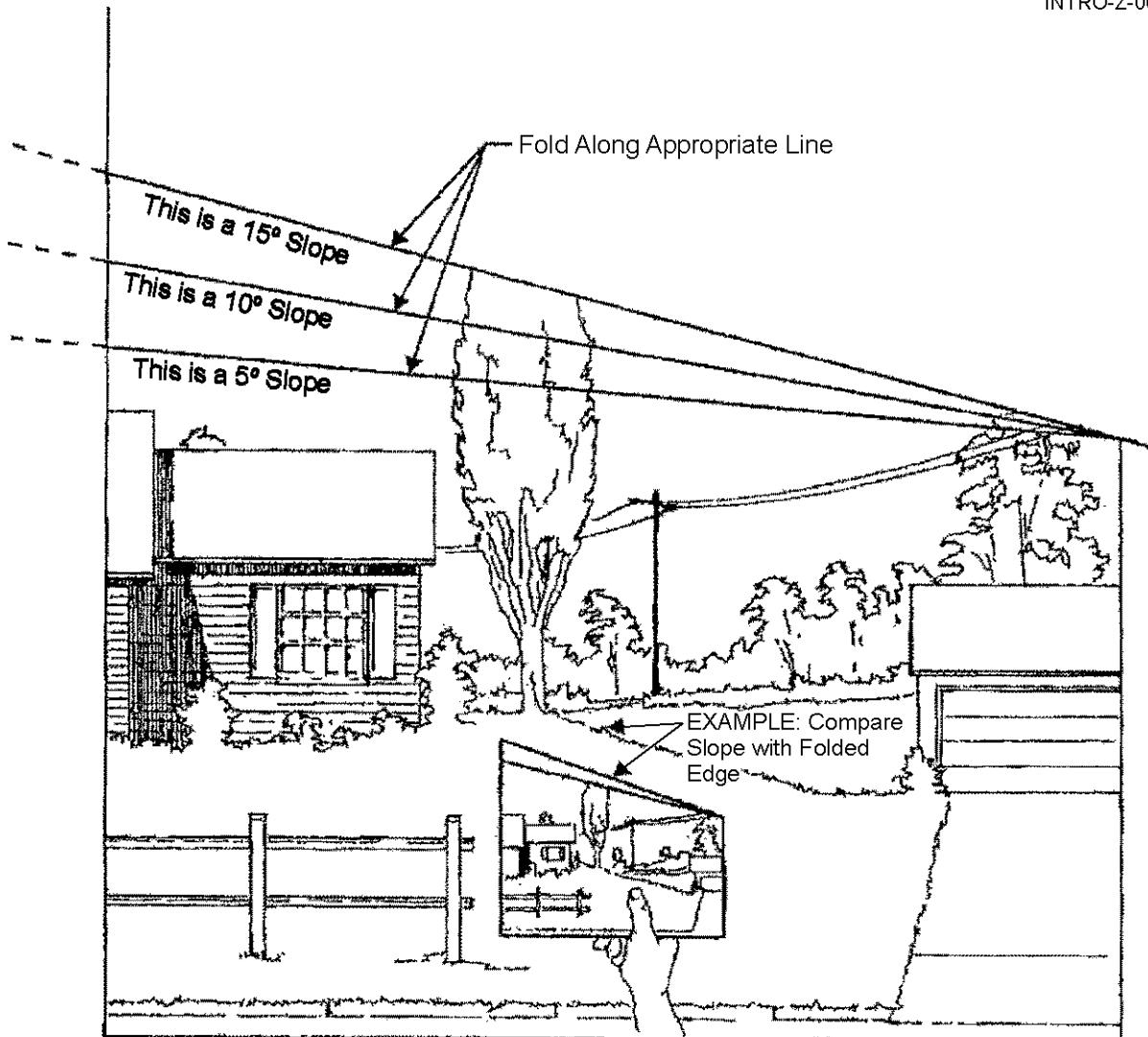
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# INTRODUCTION

## SLOPE ANGLE GUIDE

**ALIGN THIS EDGE WITH A VERTICAL SURFACE  
(TREE, BUILDING, FENCE POST, POLE, ETC.)**

INTRO-Z-0002



# 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 implement.
2. Fill out the Warranty Card in full. Be sure to answer all questions, including the Serial Number of the implement. Mail within 30 days of delivery date of this implement.
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 implement.

# INTRODUCTION





# **ASSEMBLY SECTION**

Assembly Section 3-1

# ASSEMBLY

## DEALER SET-UP INSTRUCTIONS



Always use personal protection devices such as eye and ear protectors during assembly.

### MOUNTING THE REAR TIRES

Position the rear tire rims over the axle hubs and fasten with the 1/2" lug nuts. Torque to 59 ft. lbs.

**NOTE:** When mounting bar tires the wheel spacer plates must mount between the wheels and the hubs.

### MOUNTING THE CONTROL LEVERS.

Mount the control levers to the 3/4" x 3/4" square bars positioning the control levers to the preferred height and mount with 3/8" x 1" fasteners, lockwashers, and flat washers. Move the control levers forward or rearward for operator comfort.

### ROPS

Insert the ROPS frame into the channels in the ZTR frame so the upper folding portion angles forward above the operators seat. Attach with the 1/2" x 3-1/4" fasteners and locknuts.

### MOUNTING THE SEAT

Mount the seat and seat frame to the mainframe hinge plates. Use the 5/16" x 3/4" bolts and 5/16" locknuts installed to the hinge plates,. Attach the seat stop rod to the seat plate using the cotter pin and flatwasher furnished.

Attach the seat safety wires to the seat switch.

### BATTERY

Attach the positive lead to the battery. Additional wire tie straps are shipped to secure the wiring harness as needed.



FC-Z-0014



Asm-Z-0023

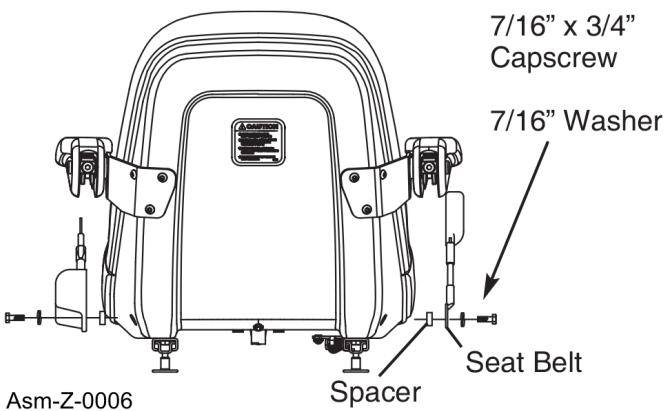
# ASSEMBLY

## MOUNTING THE SEAT BELT

Some early models require the seat belt to be installed by dealer. Place 7/16" x 3/4" capscrew, 7\*16" washer to the outside of the belt mount plate. Place the seat bushing between the seat frame and belt mount plate. Install fasteners and tighten.

### Items to Check:

- Check oil level in the engine (See Engine Manual).
- Check the fluid level in the hydrostatic oil reservoir.
- Check tightness of all fasteners, including bolts, lug nuts, and setscrews.
- Check tire pressure.



ASSEMBLY



# **OPERATION SECTION**

Operation Section 4-1

# OPERATION

## DIXIE CHOPPER CLASSIC ZERO TURN MOWER OPERATION INSTRUCTIONS

Dixie Chopper Zero Turn Riding Mowers are manufactured with quality material by skilled workers. These mowers are intended for use on lawns and other frequently maintained areas where a smooth, even cut is desired and superior maneuverability is needed. The mower is equipped with protective deflectors to prevent objects being thrown from the mower by the blades, however, no shielding is 100% effective. All shields, guards, and deflectors equipped on the unit must be maintained on the mower in good operational condition.

It is the operator's responsibility to be knowledgeable of all potential operating hazards and to take every reasonable precaution to ensure oneself, others, animals, and property are not injured or damaged by the mower, or a thrown object. Do not operate the mower if passersby, pets, livestock, or property are directly in front or to the rear of the unit.

This section of the Operator's Manual is designed to familiarize, instruct, and educate safe and proper mower use to the operator. Pictures contained in this section are intended to be used as a visual aid to assist in explaining the operation of a zero turn mower. Some pictures may show shields removed for purposes of clarity. NEVER OPERATE this mower without all shields in place and in good operational condition. The operator must be familiar with the mower operation and all associated safety practices before operating the mower. Proper operation of the mower, as detailed in this manual, will help ensure years of safe and satisfactory use of the mower.

**IMPORTANT:** Check blade retaining bolt torque after 10 hours of operation. Retighten blade bolt to proper torque.

**READ AND UNDERSTAND THE ENTIRE OPERATING INSTRUCTIONS AND SAFETY SECTION OF THIS MANUAL AND THE TRACTOR MANUAL BEFORE ATTEMPTING TO USE THE TRACTOR AND IMPLEMENT.** If you do not understand any of the instructions, contact your nearest authorized dealer for a full explanation. Pay close attention to all safety signs and safety messages contained in this manual and those affixed to the implement and tractor. OPS-U- 0001

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Death or serious injury may occur unless care is taken to follow the warnings and instructions stated in the Safety Messages. Always use good common sense to avoid hazards. (SG-2)



Si no lee inglés, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad. (SG-3)

¡ LEA EL  
INSTRUCTIVO!



# OPERATION

## **1. OPERATOR REQUIREMENTS**

Safe operation of the unit is the responsibility of a qualified operator. A qualified operator has read and understands the implement and tractor Operator's Manuals and is experienced in implement and tractor operation and all associated safety practices. In addition to the safety messages contained in this manual, safety signs are affixed to the implement and tractor. If any part of the operation and safe use of this equipment is not completely understood, consult an authorized dealer for a complete explanation.

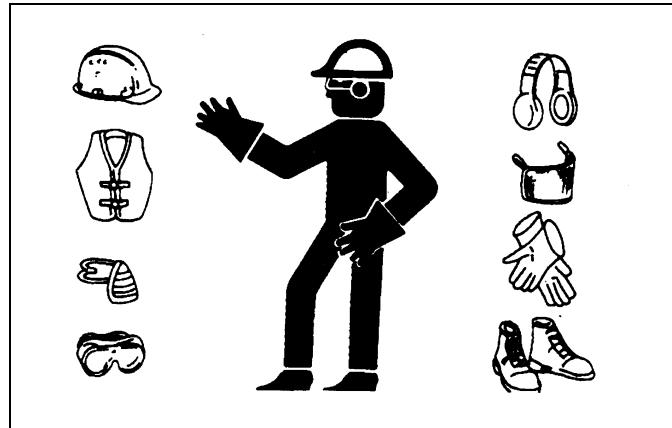
If the operator cannot read the manuals for themselves or does not completely understand the operation of the equipment, it is the responsibility of the supervisor to read and explain the manuals, safety practices, and operating instructions to the operator.

Safe operation of equipment requires that the operator wear approved Personal Protective Equipment (PPE) for the job conditions when attaching, operating, servicing, and repairing the equipment. PPE is designed to provide operator protection and includes the following safety wear:

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

- Always Wear Safety Glasses with side shields (marked with ANSI Z87).
- Steel Toe Safety Footwear
- Gloves
- Hearing Protection
- Close Fitting Clothing
- Filter Mask (depends on operating conditions)

*OPS-U- 0002\_B*



Before beginning operation, clear work area of any objects that may be picked up and thrown by mower. Check for ditches, stumps, holes or other obstacles that could upset power unit or damage mower. Tall grass can hide obstacles. Always push steering ever apart, set parking brake, disengage PTO, turn off engine, and allow blades to come to a complete stop before leaving operator's seat.

# OPERATION

**DANGER**

DO NOT use drugs or alcohol immediately before or while operating the Tractor and Implement. Drugs and alcohol will affect an operator's alertness and coordination and therefore affect the operator's ability to operate the equipment safely. Before operating the Tractor or Implement, an operator on prescription or over-the-counter medication must consult a medical professional regarding any side effects of the medication that would hinder their ability to operate the Equipment safely. NEVER knowingly allow anyone to operate this equipment when their alertness or coordination is impaired. Serious injury or death to the operator or others could result if the operator is under the influence of drugs or alcohol. (SG-27)



## 2. MOWER REQUIREMENT

### **2.1 ROPS and Seat Belt**

The zero turn mower must be equipped with a Roll-Over-Protective-Structure (ROPS) and seat belt to protect the operator from falling off the mower, especially during a roll over where the driver could be crushed and killed. Only operate the mower with the ROPS in the raised position and seat belt fastened. Mower models not equipped with a ROPS and seat belt should have these life saving features installed by an authorized dealer. OPS-U- 0003\_A

## 3. GETTING ON AND OFF THE MOWER

Before getting onto the mower, the operator must read and completely understand the mower operator manual. If any part of manual is not completely understood, consult an authorized dealer for a complete explanation. OPS-U- 0007\_A

**DANGER**

Never run the mower engine in a closed building or without adequate ventilation. The exhaust fumes can be hazardous to your health.

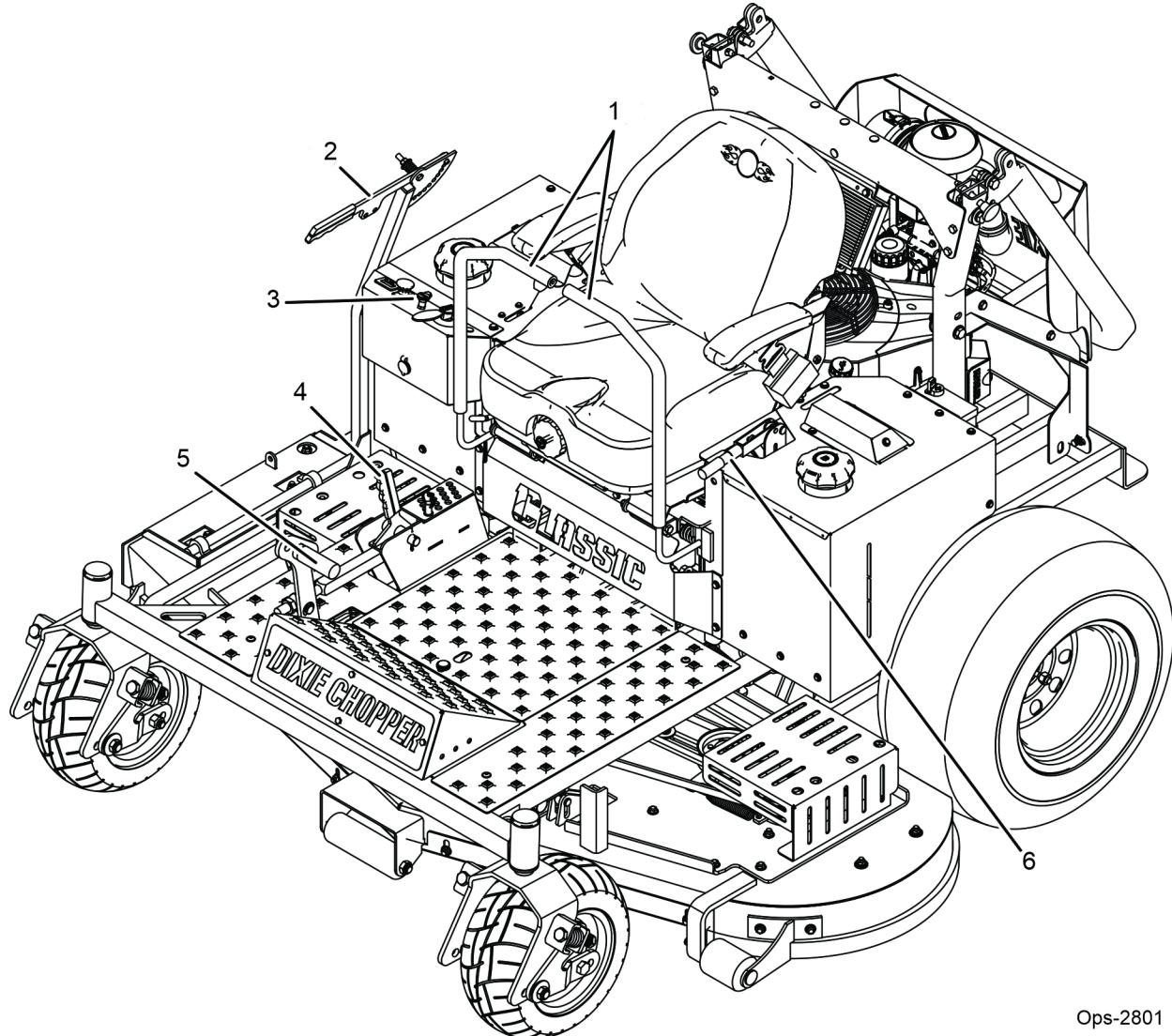
**DANGER**

Start mower only when properly seated in the mower seat. Mower can only be started when operator is seated in the mower seat with the seat belt fastened and the control handles in neutral position. Starting a tractor in gear can result in injury or death.

# OPERATION

## 4. CONTROLS

### 4.1 Mower Controls

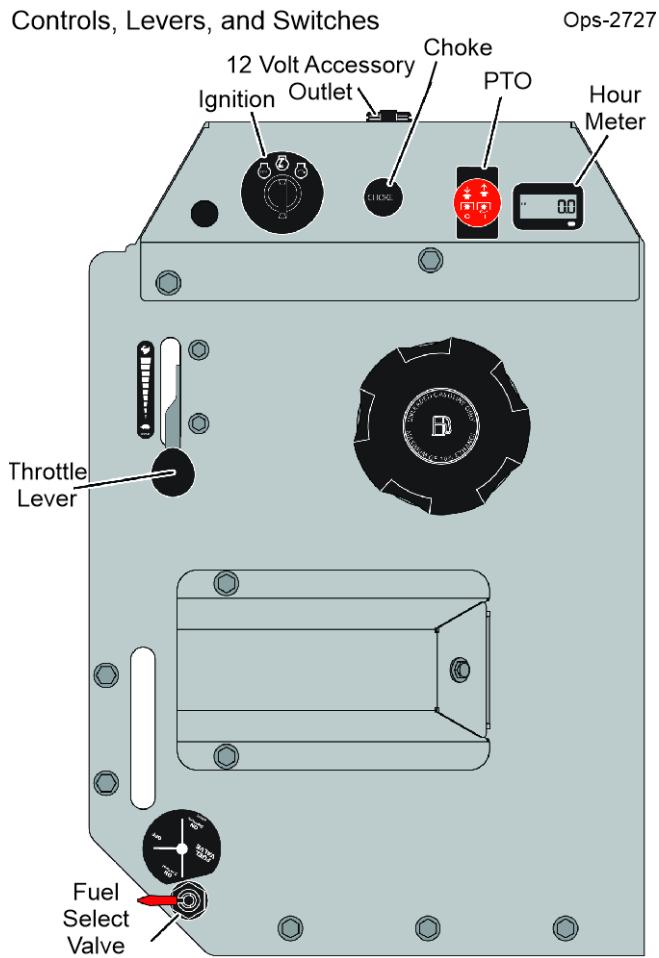


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1. **Steering Control Levers** - Right and left control levers control separate drive pumps and motors for each rear wheel.
2. **Operator Controlled Discharge Chute (OCDC) Lever** - This lever opens and close the discharge chute.
3. **Control Panel** - Ignition Switch, PTO Switch, Hour Meter, 12 Volt Accessory Outlet, Throttle Lever, Choke Control, and Fuel Select Valve.
4. **Lift Stop Lever** - This lever is used to hold the cutting unit in the fully raised position.
5. **Cutting Unit (HOC) Pedal** - The cutting unit height of cut (HOC) pedal lifts and lowers the cutting unit.
6. **Parking Brake Lever** - This lever engages the brakes on the drive motors to prevent movement of the mower.

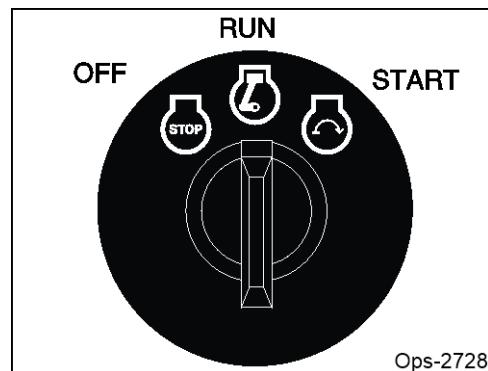
# OPERATION

## 4.2 Control Panel



## 4.3 Ignition Switch

The ignition switch has three positions, OFF, RUN and START.



# OPERATION

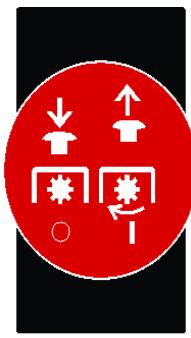
## OPERATION

### **4.4 PTO Switch**

The PTO switch uses a 2-position knob type switch to engage and to disengage the cutting unit. The PTO switch must be in the OFF (down) position to start the engine.

Pull on the red knob to move the switch to the ON position. When the PTO switch is in the ON position, the cutting unit is engaged.

Always mow with the throttle lever in the fast position.



Ops-2729

### **4.5 Hour Meter**

The hour meter shows the hours of operation and engine speed.

Press and release the mode button to toggle between functions.



Ops-2730 Mode Button

### **4.6 12 Volt Accessory Outlet**



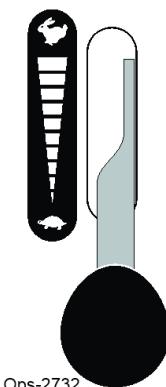
Do not use attachments with a power rating greater than 120 watts.



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### **4.7 Throttle Lever**

The throttle lever controls the engine speed. Always operate the mower at full throttle during normal operation.



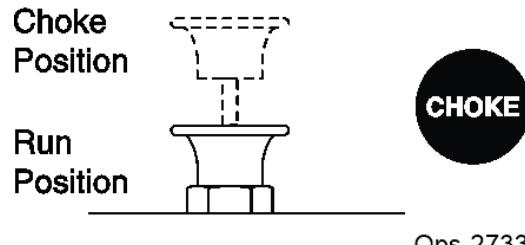
Ops-2732

# OPERATION

## 4.8 Choke Control

Choke control is used with Kawasaki engines only. When you start a cold engine, pull the choke control to the choke position. Slowly push the choke lever to the RUN position when the engine becomes warm.

**NOTE:** The choke control is not necessary to start a warm engine.



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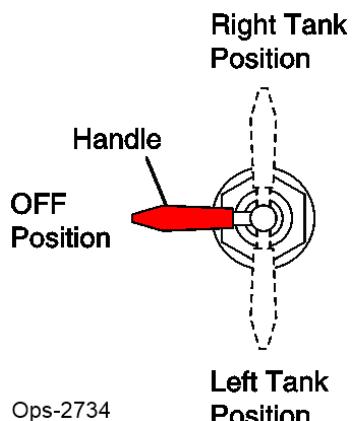
## 4.9 Fuel Select Valve

The fuel select valve allows the operator to determine which tank the engine takes fuel from. The valve can also stop fuel flow to the engine.

To use the left fuel tank, rotate the valve handle so it points toward the left tank position.

To use the right fuel tank, rotate the valve handle so it points toward the right tank position.

To stop the fuel flow, rotate the handle so it points toward the OFF position. Keep the fuel valve in the OFF position when the mower is not being used.



Ops-2734

## 4.10 Steering Control Levers

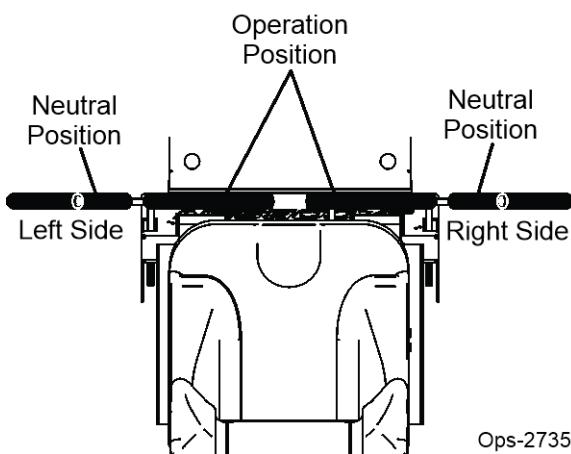


To prevent personal death or personal injury, do not quickly move the steering control levers or suddenly start and stop the mower. You must use more caution when you turn the mower or when you operate on slopes.

The mower has separate drive pumps and motors for each rear wheel. The right-side control lever controls the operation of the right-side drive pump. The left-side control lever controls the operation of the left-side drive pump.

To put the steering control levers in the Neutral position, move the steering control levers toward the left and right sides.

The steering control levers must be in the Neutral position, the PTO switch must be in the OFF (down) position and the parking brake engaged to start the mower.



Ops-2735

# OPERATION

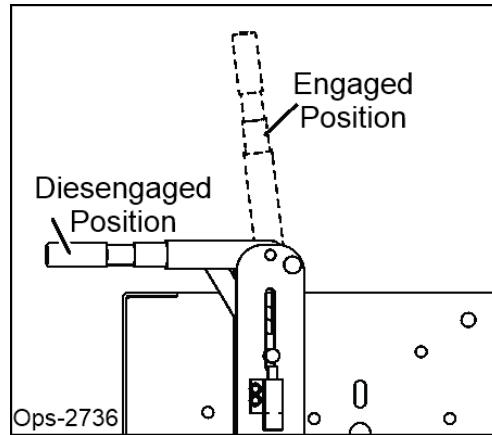
## OPERATION

### 4.11 Parking Brake Lever

The parking brake lever engages the brakes on the drive motors to prevent movement of the mower. The parking brake should be engaged when the mower is stationary and/or unoccupied.

When the steering control levers are in the Neutral position, pull the parking brake lever up and back to the engaged position to engage the parking brake. Push the parking brake lever forward and down to the disengaged position to disengage the parking brake.

The steering control levers must be in the neutral position, the PTO switch must be in the OFF (down) position and the parking brake engaged to start the mower.

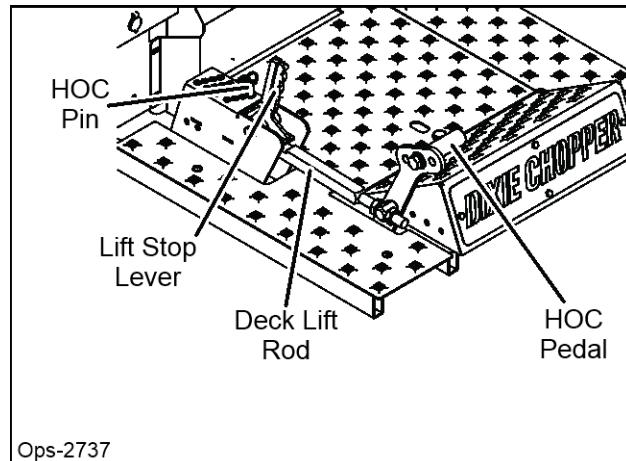


### 4.12 Cutting Unit HOC Pedal

The cutting unit height of cut (HOC) pedal lifts and lowers the cutting unit.

Install the HOC pin in the correct position for the cutting height. To lower the cutting unit, press the pedal down, pull the lift stop lever back and slowly allow the pedal to lift until the deck lift rod touches the HOC pin. (See HOC pin position chart)

**NOTE:** To prevent damage to the HOC mechanism or the cutting unit, slowly allow the pedal to lift until the deck lift rod touches the HOC pin. Do not allow the cutting unit to drop from the lifted position against the HOC pin.



### 4.13 Lift Stop Lever

The lift stoop lever is used to hold the cutting unit in the fully raised position.

To lift the cutting unit, fully push the HOC pedal. The lift stop lever will drop into the slot in the lift rod. Release the lift pedal. The flat front part of the lift stop lever will hold the cutting unit in the fully raise position.

To lower the cutting unit, push on the pedal to release the pressure on the lift stop lever and pull the lift stop lever back. When the cutting unit is lowered, the lift rod will contact the HOC pin.

# OPERATION

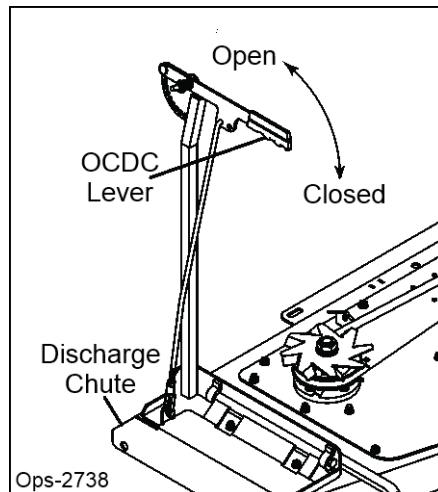
## 4.14 Operator Controlled Discharge Chute

### **DANGER**

The operator must be careful of person and objects near the mower. Do not release the cut grass in the direction of persons or allow persons near the mower while in operation.

Never operate the mower with the discharge chute removed. The cutting unit can discharge objects for long distances with the discharge chute removed. Remember that the operator and/or owner are responsible for accidents or hazards that occur to other persons or their property.

The operator controlled discharge chute (OCDC) lever opens and closes the discharge chute. When you mow around flower beds or edges of paths, the discharge chute can be closed to limit the discharge. Never mow with the discharge deflector removed.



## 5. INTERLOCK SYSTEM

The Interlock System prevents the engine to start unless the steering control levers are in the Neutral position, the parking brake is engaged and the PTO switch is in the OFF (Down) position. the system stops the engine if the operator leaves the seat with the PTO switch in the ON position, steering control levers out of the NEUTRAL position the parking brake disengaged.

### **WARNING**

Do not operate the equipment with the Interlock System disconnected or the system does not operate correctly. Do not disconnect or prevent the operation of any switch

- The engine does not start during test 1
- The engine does start during tests 2, 3, and 4
- The engine continues to run during test 5 and 6

Refer to the chart below for each test and follow the check marks across the chart. Turn off the engine between each Test

TEST 1: The test shows the normal engine start procedure. The operator is in the seat, parking brake is engaged, the steering control levers are in the NEUTRAL position and the PTO switch is in the OFF (down) position. The engine will start.

TEST2: The engine must not start if the PTO switch is in the ON position.

TEST3: The engine must not start if the parking brake is disengaged.

TEST 4: The engine must not start if the steering control lever(s) is out of the NEUTRAL position.

# OPERATION

TEST 5: Start the engine with the normal procedure. Turn on the PTO switch and lift your weight off the seat. The engine must stop. The cutting unit blades must not rotate after seven (7) seconds.

TEST 6: Start the engine with the normal procedure. Disengage the parking brake and lift your weight off the seat. The engine must stop. The cutting unit blades must not rotate after (7) seconds.

Test	Operator Seated		PTO Switch Off		Parking Brake Engaged		Steering Control Levers in Neutral		Engine Starts	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
1	7		7		7		7		7	
2	7			7	7		7			7
3	7		7			7	7			7
4	7		7		7		7			7
5	7	*	7	*	7		7		*	
6	7	*	7		7	*	7		*	

\* Start the engine with the normal procedure, move position of the switch and lift your weight off the seat. The engine must stop immediately and the cutting unit blades must not rotate after seven (7) seconds.

OPERATION

# OPERATION

## **6. MOWER PRE-OPERATION INSPECTION**

Before each mower use, a complete inspection and service is required to ensure the mower is in a good and safe working condition. Damaged and/or broken parts should be repaired and/or replaced immediately. To ensure the mower is ready for operation, conduct the following.

### **6.1 Pre-Operation Checklist**

1. Make sure fuel tank is full. Use regular unleaded gasoline See engine manual for more details.



Avoid Serious Injury or Death: Gasoline is extremely flammable and explosive under certain conditions.

- Refuel in a well ventilated area with engine stopped.
- Do NOT smoke or allow flames or sparks in the refueling area or where gasoline is being stored.
- Do NOT overfill fuel tank. After refueling, make certain the tank cap is closed properly and securely.
- Be careful NOT to spill fuel when refueling. Fuel vapor or spilled fuel may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- Keep Out of the Reach of Children.

2. Make sure dirt and foreign matter are kept out of fuel tank. Use a clean funnel and fuel can.
3. Do NOT mix oil with gasoline
4. Do not use white, high test or premium gasoline. Do not use de-icers, carburetor cleaners or other such additives.
5. Check the crankcase oil level. Make sure the engine is off. The mower should be parked on a level area. Do not overfill. (See your engine manual for more detailed instructions.)
6. Check battery fluid level.
7. Inspect V-Belts.
8. Check tire pressure (Use low pressure gauge) Rear Drive Tires - 15 psi (Rear tires may be inflated to 12 psi if additional ride comfort is desired.) Front Tires are Foam Filled.
9. Make sure underside of mower deck is free of grass.
10. Make sure mower blades are sharp and secured tightly.
11. Clean the air intake screen on the engine if necessary./
12. Perform any other maintenance as it becomes necessary. (See "Maintenance" Section.)
13. Check parking brake operation by disengaging hydrostatic trans-axles (freewheeling position), and placing the brake lever in the "ON" position. Attempt to rock tractor by hand. Both drive wheels should be locked. When the brake handle is in the "OFF" position, both drive wheels should turn freely. If there is a problem in either position, refer to adjustment procedure in the Maintenance Section.



Engine Exhaust Gases contain poisonous Carbon Monoxide.

- Never run engine in a closed building or confined area.
- Avoid inhaling exhaust gases.

# OPERATION

## Zero Turn Mower PRE-OPERATION Inspection



Mower ID# \_\_\_\_\_

Make: \_\_\_\_\_

Date: \_\_\_\_\_

Shift: \_\_\_\_\_

### **WARNING**

Before conducting the inspection, make sure the mower engine is off, all rotation has stopped and the mower is in park with the parking brake engaged. Make sure the mower is resting on the ground or securely blocked up and all hydraulic pressure has been relieved.

**Table 1:**

Item	Condition at Start of Shift	Specific Comments if not O.K.
<b>ZERO TURN MOWER</b>		
The engine has been serviced		
Battery fluid level is checked (if applicable)		
Low oil pressure light checked for operation		
Operator interlock switches checked for operation		
Assembly completed		
All fittings lubricated		
Hydraulic reservoir filled to appropriate level with oil		
All shields in place and in good condition		
ROPS is installed		
Retractable seat belt functions properly		
All fasteners torqued to specifications given in Torque		
All decals in place and readable		
Overall condition good (i.e. paint, welds)		
Parking brake checked and adjusted, if necessary		
Steering checked and adjusted, if necessary		
Check tire pressure		
Warranty information has been registered on-line		
Operators manual has been delivered to owner		

Operator's Signature: \_\_\_\_\_

**DO NOT OPERATE an UNSAFE MOWER**

# OPERATION

## **6.2 Preparing to Drive Zero Turn**

1. OPEN FUEL TANK SELECTOR VALVE - Left or right tank.
2. MOVE CONTROL LEVERS TO neutral "OUT" position by pushing each one straight sideways.
3. SET PARKING BRAKE. Pull rearward to set.
4. DISENGAGE MOWER BLADE CLUTCH by moving clutch by moving clutch switch to "OFF" (down) position.
5. SET ENGINE CHOKE CONTROL for cold starts to full position.
6. SET ENGINE THROTTLE TO 1/2 throttle.
7. TURN IGNITION KEY to "START" position and release to "RUN" as soon as engine starts.  
**NOTE:** *Prolonged cranking will damage starter motor and shorten the battery life. Wheels should NOT rotate. If one or both drive wheels are turning, perform procedures under "Motion Control Adjustment" for side(s) that wheel turns.*
8. ADJUST ENGINE THROTTLE AND CHOKE for desired engine smoothness and speed.  
**NOTE:** *When mowing, always run engine at full throttle.*
9. RELEASE PARKING BRAKE. Push brake lever forward to release.

**CAUTION**

If the operator is inexperienced with the zero turn mower lever steering/speed control, he/she should follow these recommendations:

- Disengage the mower blades.
- Go very slowly until thoroughly familiar with the machine.
- Keep away from fences, buildings, and other obstructions.
- While becoming familiar with the machine move the controls levers smoothly and slowly.
- Practice until operation is smooth and efficient.

## **6.3 PTO RPM and Ground Speed**

Ground speed for mowing will depend upon the height, type, and density of vegetation to be cut. Recommended speed for efficient mower performance is between 2 and 3 mph. Operate the mower at its full speed to maintain blade speed for a clean cut. Operating the Mower

**WARNING**

Mow only in conditions where you have clear visibility in daylight or with adequate artificial lighting. Never mow in darkness or foggy conditions where you cannot clearly see at least 300 feet (90 m) in front and to the sides of the tractor and mower. Make sure that you can clearly see and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects. If you are unable to clearly see these type of items discontinue mowing. (SGM-1)

**WARNING**

Avoid mowing in reverse direction when possible. Check to make sure there are no persons behind the mower and use extreme care when maneuvering in reverse. Mow only at a slow ground speed where you can safely operate and control the tractor and mower. Never mow an area that you have not inspected and removed debris or foreign material. (SGM-08)

### Mowing Recommendations

1. Keep mower blades sharp.

# OPERATION

2. Make sure deck and discharge chute are clean.

## **WARNING**

To avoid serious injury from blade contact, power must be off to clean discharge chute.

## **DANGER**

Keep hands and feet away from underneath mower to avoid serious injury or death.

## **WARNING**

Rotary mowers can discharge objects at high speeds. To avoid serious injuries or death:

- Operate only with side bands in good repair and chute or grass catcher attachment installed.
- Keep Children, Pets, and Bystanders away from the work area.
- Do not operate mower in the vicinity of other persons.
- Discharge away from buildings, walls or other structures.

## **7. STARTING THE ENGINE**

Start the engine with the operator in the seat, steering controls levers in the Neutral position, the PTO switch in the OFF position and the parking brake engaged.

Set the throttle lever to half throttle.

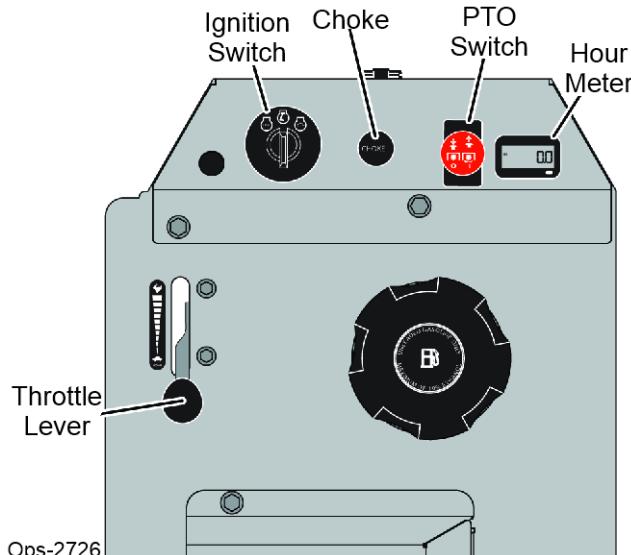
Mowers with Kawasaki Engines: If the engine is cold, move the choke to the choke position.

Turn the ignition switch to the RUN position. The hour meter will show the engine operation hours.

Turn the ignition switch to the START position. Release the key when the engine starts. Allow 30 seconds between start tries to allow the starter motor to become cool.

**NOTE:** Do not hold the ignition switch in the START position for more than 5 seconds.

When the engine starts, move the choke (if equipped) to the RUN position. Allow the engine to become warm before you operate the engine at full throttle.



## **8. TO STOP THE ENGINE**

To stop and park the mower in normal conditions:

1. Turn the PTO switch to the OFF position. Drive the mower to a flat and level area to park the mower.
2. Put the steering control levers in the Neutral position.
3. Lower the cutting unit to the ground. Engage the parking brake.
4. Turn the ignition switch to the OFF position and remove the key before you leave the mower.

**NOTE:** If an emergency occurs and you must park the mower in the area of operation, follow the guidelines set by the grounds manager. If the mower is parked on a slope, chock or block the wheels.

# OPERATION

## **9. OPERATING THE ZERO TURN MOWER**

**THE OPERATOR MUST COMPLETELY UNDERSTAND HOW TO OPERATE THE MOWER AND ALL CONTROLS BEFORE ATTEMPTING TO OPERATE.** The operator must read and understand the Safety and Operation Sections of the mower operator's manual. This manual must be read and explained to any operator who cannot read. Never allow someone to operate the mower without complete operating instructions.

Before starting any operation, the operator must become familiar with the area to be worked in and any obstacles and hazards contained within to ensure safety to the operator, bystanders, and equipment. Special attention should be paid to foreign debris, rough terrain, steep slopes, ditches, and passersby and animals in the area

**▲WARNING**

Extreme care should be taken when operating near loose objects such as gravel, rocks, wire, and other debris. Inspect the area before mowing. Foreign objects should be removed from the site to prevent machine damage and/or bodily injury or even death. Any objects that cannot be removed must be clearly marked and carefully avoided by the operator. Stop mowing immediately if blades strike a foreign object. Repair all damage and make certain rotor or blade carrier is balanced before resuming mowing. (SGM-05)

**▲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 and could result in serious injury or even death. 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. (SGM-06)

### **9.1 Bystander/Passerby Precautions**

If a bystander comes within 300 feet of the tractor while the mower is being operated, stop the tractor at once, idle the engine and disengage the PTO. Do not engage the PTO again until all bystanders are well past the 300 feet distance.

### **9.2 Engaging the Power Take Off (PTO)**

Before engaging the PTO, make certain that the area is clear of bystanders and passersby. The implement must be completely lowered and the deck positioned at a safe operating height.

**▲WARNING**

Do not put hands or feet under mower decks. Blade Contact can result in serious injury or even death. Stay away until all motion has stopped and the decks are securely blocked up. (SGM-09)



# OPERATION

## 10. DRIVING THE MOWER

Read and follow all safety instructions contained in this manual when you operate the mower. When you operate in the reverse direction, look behind you to make sure you have a clear path. Do no mow in reverse.

Slowly and equally push both the right-side and left-side control levers forward to drive the mower in the forward direction. The more the levers are pressed the mower the forward speed is increased.

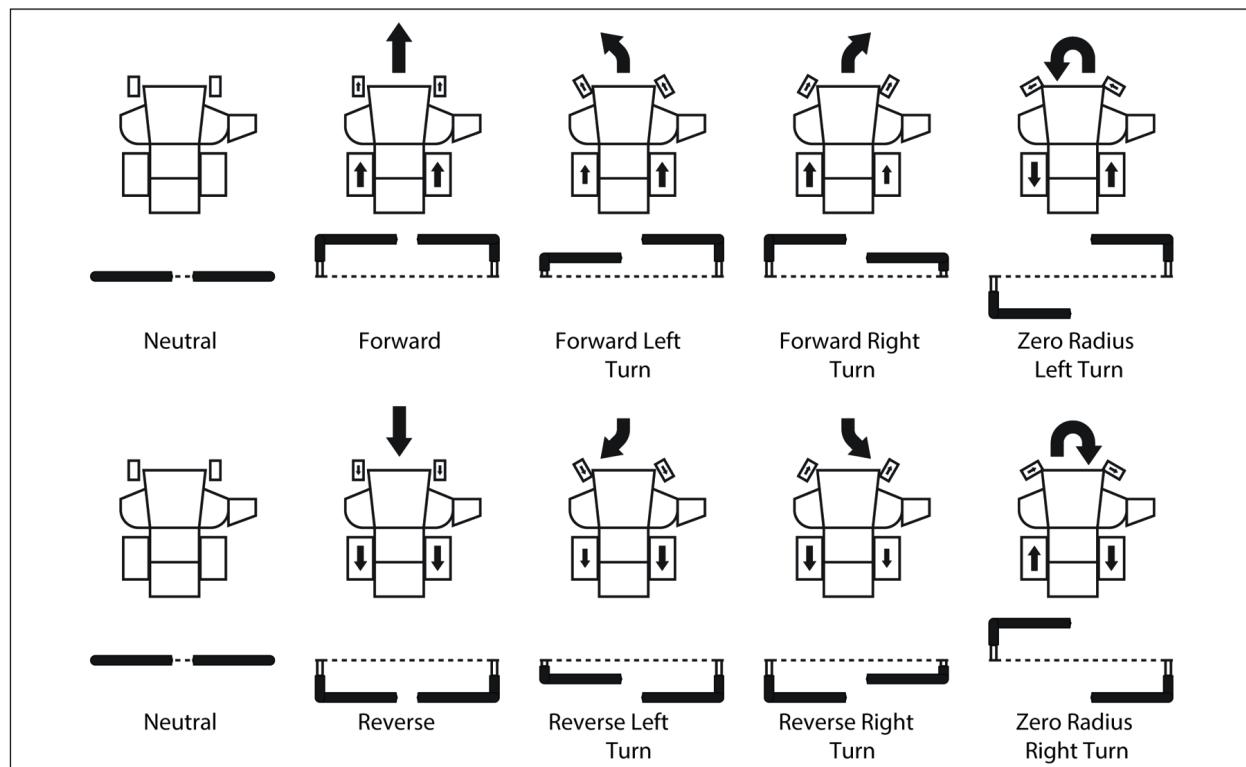


To prevent personal injury or death, do not quickly move the steering Control levers or suddenly start and stop the mower. You must use more caution when you turn the mower or when you operate on slopes.

Slowly and equally pull both the right-side and left-side control levers toward you to drive the mower in the reverse direction. The more the levers are pulled the more the reverse speed is increased. Press the levers against the reverse stop for the maximum reverse speed

To turn the mower to the left, push the right-side drive lever more than the left-side drive lever. The greater the difference in lever position, the sharper the mower will turn. To do a zero radius left turn, press the right-side lever forward and pull the left-side lever toward you.

To turn the mower to the right, push the left-side drive lever more than the right-side drive lever. The greater the difference in lever position, the sharper the mower will turn. To do a zero radius right turn, press the left-side lever forward and pull the right-side lever toward you.



Ops-2739

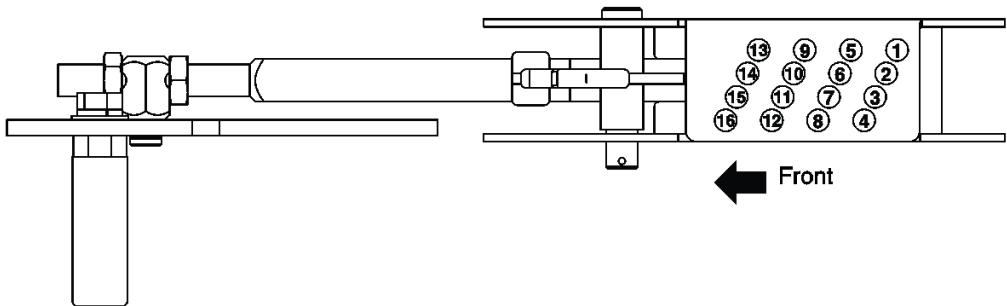
# OPERATION

## 11. MOWING

### 11.1 Height of Cut

The height of cut is determined by the position of the HOC pin. engage the parking brake, stop the engine and remove the key before you change the HOC. Fully lift the deck until it is held with the lift stop lever.

Use the chart to find the correct cutting height pin location for the necessary HOC.



Hole	HOC	Hole	HOC
1	1-1/4 Inch (3.2 cm)	9	3-1/4 Inch (8.3 cm)
2	1-1/2 Inch (3.8 cm)	10	3-1/2 Inch (8.9 cm)
3	1-3/4 Inch (4.4 cm)	11	3-3/4 Inch (9.5 cm)
4	2 Inch (5.1 cm)	12	4 Inch (10.2 cm)
5	2-1/4 Inch (5.7 cm)	13	4-1/4 Inch (10.8 cm)
6	2-1/2 Inch (6.4 cm)	14	4-1/2 Inch (11.4 cm)
7	2-3/4 Inch (7.0 cm)	15	4-3/4 Inch (12.1 cm)
8	3 Inch (7.6 cm)	16	5 Inch (12.7 cm)

Ops-2740

#### **WARNING**

To prevent injuries, when the blades rotate, keep your hands, feet and clothing away from the cutting unit.

**NEVER** use your hands to clean the cutting unit. Use a brush to remove grass from the blades. The blades can be sharp and can cause injury/

**DO NOT** operate the cutting unit with the discharge chute removed.

#### **TO MOW:**

1. Put the PTO switch in the ON position. The blades will start turning.
1. Lower the cutting unit.
2. Push the steering control levers forward to drive the mower. Never mow in the reverse direction.
3. Slow down when you turn the mower on slopes.

# OPERATION

## OPERATION

### 11.2 Mowing on Slopes

#### **DANGER**

Operate this Zero Turn Mower mowing **across** a slope that is no greater than 15 degrees. It is unsafe and can cause upset or loss of traction resulting in death or serious injury.

**Refer to the Slope Indicator page in the front of this manual to determine if a slope or hill is too DANGEROUS to operate this Zero Turn Mower!**

Refer to the SAFETY SECTION: Using ROPS and Seat Belts for Operating on Slopes Safely.

#### **CAUTION**

To avoid tip-over, drive across slopes, not up and down. If machine stops going uphill, stop blades and back down slowly.

The mower is made to have good traction and to have good balance. Operate the mower with caution when you drive on a slope. If you drive on wet grass the traction is decreased which can cause sliding and result in loss of control.

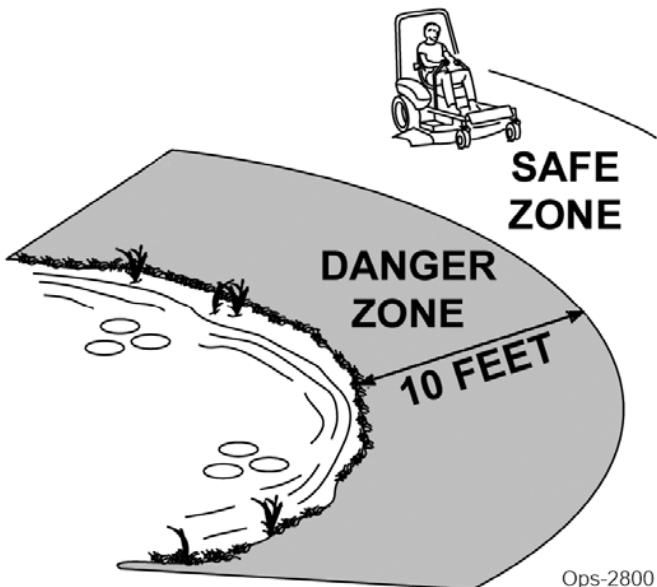
1. Reduce speed to slowest speed possible before starting up or down hills.
2. Avoid stopping or changing speed on hills.
3. If you must stop, place the steering levers in the neutral lock position and engage parking brake.
4. To restart movement, release the parking brake. Move the steering levers out of Neutral Lock position and push forward equally to regain forward motion.
5. Make turn slowly if operator must turn on a slope or hill.

### 11.3 Mowing Near Water, Ditches, and Embankments

#### **DANGER**

Operating this Zero Turn Mower near water where drop offs are present is unsafe. Wheels dropping over the edge can cause rollover or loss of traction resulting in death or serious injury by drowning.

- Watch for ditches, holes, rocks, dips and rises that can change the operating angle. Keep away from drop offs and sleep banks. Tall grass can hide these obstacles.
- Use caution near drop offs, ditches, or embankments. The Zero Turn Mower can suddenly turn over if a wheel goes over an edge of a ditch, drop off, embankment, or an edge caves in.
- Mow a safe distance from water's edge (Ponds or Lakes). A danger of 10 feet should be observed.



# OPERATION

## **12. SAFETY RULES FOR TOWING OPERATIONS**

- Make sure conditions and item being towed are safe for towing and allow for the operator to maintain control of the mower. Never tow on slopes, wet, or unstable surfaces. The total towed weight must not exceed 250 lbs., the tongue weight must not exceed 25 lbs. and slope can only be a maximum of 5 degrees.
- Do not attach towed equipment except at the approved hitch point.
- Never allow children or others to ride in or on towed equipment.
- Stopping distance increases with speed and weight of load being towed. Travel slowly and allow extra time and distance to stop.
- Do not turn sharply when towing. Use additional caution when turning or operating under adverse surface conditions. Use care when reversing.

## **13. TOWING THE MOWER**

If the mower has a problem and cannot drive to the service area, open the bypass valve and load the mower on a trailer. Be careful when you load or unload the mower on a trailer. Trailer must be wider than the mower and can carry the weight of the mower. Use a full-width ramp to load or unload the mower on a trailer.

If a trailer is not available, tow the mower at a slow speed for short distances.

**NOTICE**

When you tow the mower do not drive more than 2 mph (3.2 km/hr). Jacobson recommends that you do not tow the mower for long distances.

Be careful when you load or unload the mower on the trailer. Fasten the mower to the trailer to prevent the mower from moving or shifting using straps, chains, cables or ropes to fasten the mower to the trailer. Make sure that all latches are correctly fastened. Engage the parking brake.

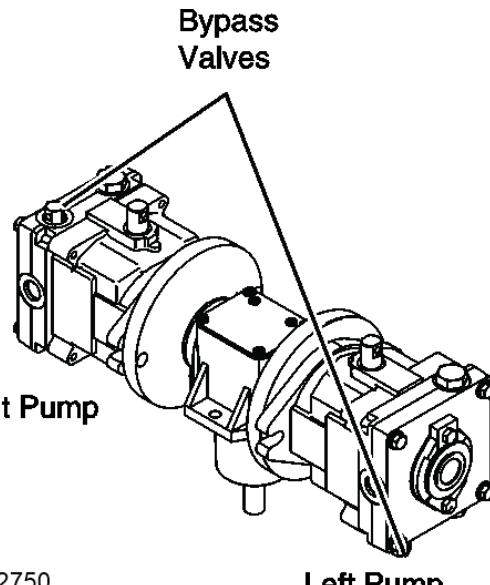
If the trailer is moved on the highway, inflate the tires to the maximum pressure recorded on the tire before you fasten the mower to the trailer. Decrease the tire pressure after the mower is removed from the trailer.

Tilt the seat forward. Open the bypass valve on both pumps before you tow the mower. The bypass valve lets the mower be moved without the engine started and to prevent possible damage to hydraulic components.

The bypass valve is found on the top front corner of the right pump and the bottom front corner of the left pump below the operator seat. To open the valve, use a wrench to turn the bypass valve counterclockwise two full turn (720°).

Before towing, disengage the parking brake and make sure the cutting unit is lifted.

When the mower gets to the service area, engage the parking brake and turn the bypass valves clockwise two full turns (720°). Torque the bypass valves to 84-120 in. lb. (7-10 ft. lb.) (9.5-13.5 Nm).



Ops-2750

# OPERATION

## 14. TOWING THE MOWER

If the mower has a problem and cannot drive to the service area, open the bypass valve and load the mower on a trailer. Be careful when you load or unload the mower on a trailer. Trailer must be wider than the mower and can carry the weight of the mower. Use a full-width ramp to load or unload the mower on a trailer.

If a trailer is not available, tow the mower at a slow speed for short distances.

**NOTICE**

When you tow the mower do not drive more than 2 mph (3.2 km/hr). Dixie Chopper recommends that you do not tow the mower for long distances.

Be careful when you load or unload the mower on the trailer. Fasten the mower to the trailer to prevent the mower from moving or shifting using straps, chains, cables or ropes to fasten the mower to the trailer. Make sure that all latches are correctly fastened. Engage the parking brake.

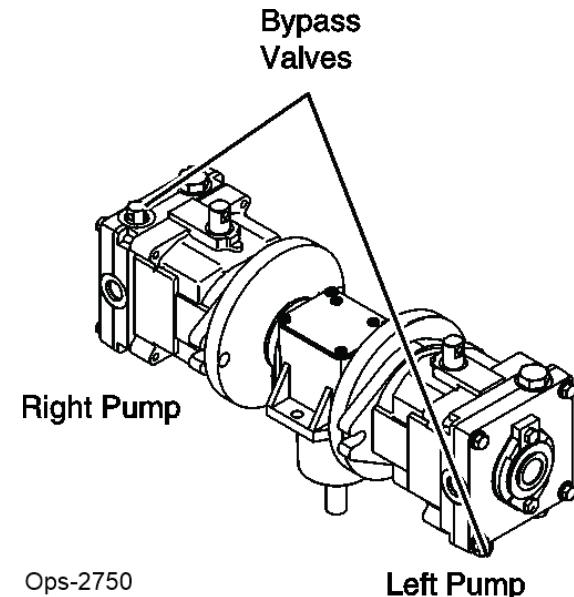
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Ops-2750

# OPERATION

## 15. TROUBLESHOOTING GUIDE

The problem solution chart lists basic problems that can occur during start and operation of the mower. For complete information about the hydraulic and electrical systems, contact your Dixie Chopper Dealer.

PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
Engine will not start	Parking brake disengaged, PTO switch ON or steering Levers out of neutral position.  Battery low on charge or defective.  Fuel tank empty or dirty. Fuse Blown Relay(s) defective.	Check Interlock System and start-up Procedure.  Inspect condition of battery and battery connections. Fill with fresh fuel. Change Fuel filter. Replace fuse. Test and replace relay.
Engine hard to start or runs poorly.	Fuel level low, fuel or fuel filter dirty.	Fill with fresh fuel. Change fuel filter.
Engine stops.	Fuel tank empty. Interlocks not set before leaving operator's position.	Fill with fresh fuel and bleed fuel lines. Put steering levers in neutral position, engage parking brake and set PTO Switch to OFF.
Engine overheating.	Air intake restricted.	Clean engine cooling air intake and fins.
Battery not holding charge.	Loose or corroded battery terminals. Low electrolyte. Charging system defective.	Inspect and clean terminals. Refill to correct level. See engine manual.
Cutting unit does not cut evenly.	Deck not level.  Engine speed too low.  Mow speed not adjusted for turf conditions.	Check that decks are level. Check and adjust cutting height. Check engine speed with throttle in its fast position. Adjust mow speed for best cut.

**See Engine Manual for Engine Adjustments.**

# **MAINTENANCE SECTION**

Maintenance Section 5-1

# MAINTENANCE

## PARTS INFORMATION

### PARTS INFORMATION

Dixie Chopper mowers use balanced and matched system components for blade carriers, blades, cuttershafts, knives, knife hangers, rollers, drivetrain components, and bearings. These parts are made and tested to Dixie Chopper specifications. Non-genuine "will fit" parts do not consistently meet these specifications. The use of "will fit" parts may reduce mower performance, void warranties, and present a safety hazard. Use genuine Dixie Chopper mower parts for economy and safety. (SPDC-1)

### SEE YOUR DIXIE CHOPPER DEALER

Before operating your 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**

Before you clean, adjust or repair this equipment, push PTO switch to the OFF position, lower the cutting unit, engage the parking brake, stop the engine and remove the key.

Make sure the mower is parked on a solid and level surface. Never work on a mower that is lifted only by the jack. Always use the jack stands.

A qualified technician must always do adjustments and maintenance. If the correct adjustments can not be made, contact your Dixie Chopper Dealer.

Inspect the equipment according to the maintenance schedule and keep complete records.

1. Keep the equipment clean.
2. Keep all moving parts correctly adjusted and lubricated.
3. Replace worn or damaged parts before you operate the mower.
4. Keep all fluids at the correct level.
5. Keep all shields in position and all hardware tight.
6. Keep the tires correctly inflated.

When you make the adjustments or repairs, do not wear jewelry or loose fitting clothing.

Refer to the illustration in the Parts Manual for the removal and assembly of parts.

When you discard hazardous material (batteries, lubricants, fuel, anti-freeze), follow your local, state or federal recommended procedures.

# MAINTENANCE

## MAINTENANCE SCHEDULE

Mower Service Interval Chart	
Interval	Item
First 8 Hours	Replace engine oil Replace engine oil filter Check electrical wiring
Each Day (10 Hours)	Check safety interlock system Check engine oil level Check drive system oil level Check for fuel/oil leaks Clean area around muffler and controls Check blades for sharpness and wear Clean air inlet screen (Kawasaki)
Each 25 Hours	Check parking brake operation Replace cutting blades Check engine to deck belt tension
First 50 Hours	Replace drive system filter
Each Two Weeks (100 Hours)	Clean engine oil cooler fins and cylinder cooling fins <sup>1</sup> Check outer air filter element <sup>1</sup> Replace engine oil and filter <sup>1, 4</sup> Clean and re-gap spark plugs (Kawasaki Engine) Replace fuel filter Lubricate all grease fittings Check engine exhaust system
Each Month (200 Hours)	Check electrical wiring
Each 250 Hours	Replace outer air filter element <sup>1, 4</sup>
300 Hours	Clean combustion chamber (Kawasaki Engine) <sup>2</sup> Check and adjust valve clearance (Kawasaki Engine) <sup>2</sup> Clean and lap valve seating surface (Kawasaki Engine) <sup>2</sup>
Each Two Months (400 Hours)	Replace fuel filter Replace drive axle fluid
Yearly or 500 Hours	Replace inner air filter element <sup>1, 4</sup>

<sup>1</sup> Perform more frequently under severe, dusty, dirty conditions.

<sup>2</sup> Have a Kawasaki authorized dealer perform this service.

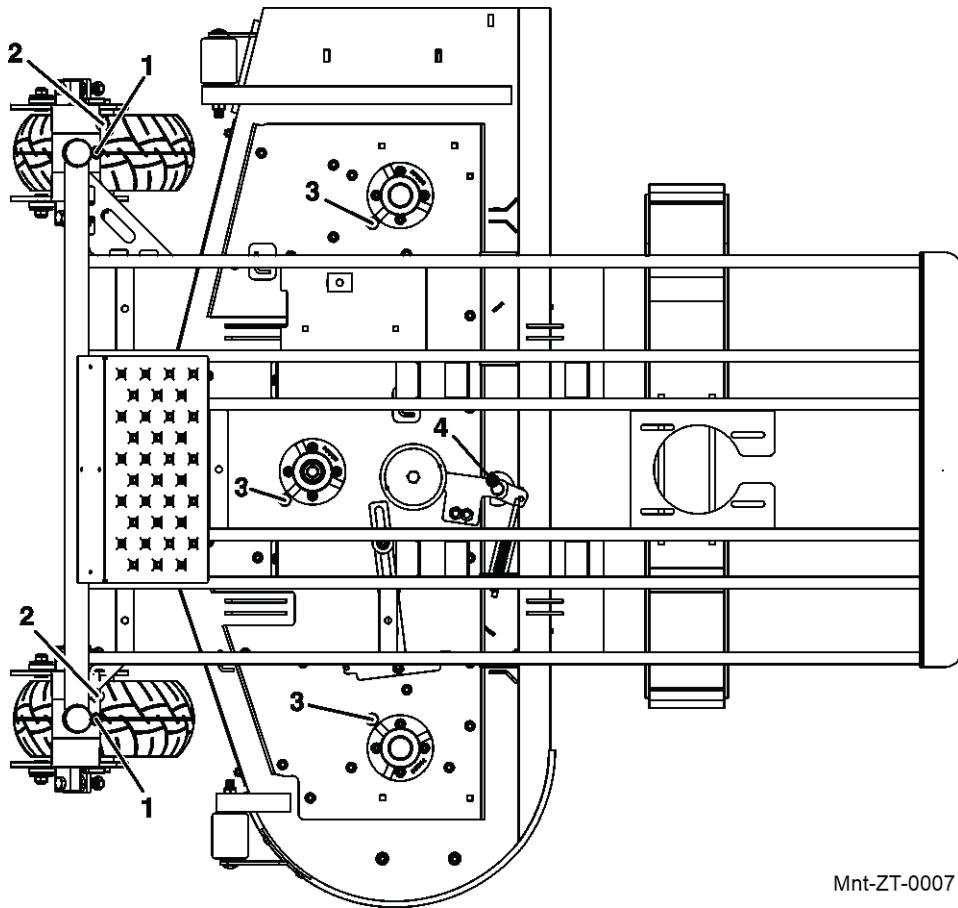
<sup>4</sup> Refer to engine manual for engine manufacturer recommendations for oil filter and air filter replacement.

# MAINTENANCE

## MAINTENANCE

### LUBRICATION

#### Grease Fitting Locations



Mnt-ZT-0007

1. Front Wheel Pivot (2 Fittings)
2. Front Wheel Bearings (2 Fittings)
3. Deck Spindle (3 Fittings)
4. Engine to Deck Belt Tensioner (1 Fitting)

# MAINTENANCE

## Fluid Requirements

**Table 1: Fluid Requirements**

	Quantity	Type
Engine Oil with Filter Kawasaki Engine	2.1 Quarts (2 l)	Varies depending on air temperature (See Recommended Lubricants)
Drive System Tank	6.25 Quarts (5.95 Liter)	SAE 15W-40 API Classification SL
Gearbox		SAE80W90
Fuel - 2750KW / 2760KW Fuel - 3160KW Fuel - 3572KW	8 Gallons 11 Gallons 12 Gallons	87 Octane Gasoline Maximum 10% Ethanol

## ENGINE

**Important**

The mower includes a separate Engine Manual prepared by the engine manufacturer. Read the Engine Manual and know the operation and maintenance of the engine. When you follow the engine manufacturer instructions, you will make sure the maximum service life of the engine. The replacement engine manuals are available from the engine manufacturer.

The operation and maintenance during the first 5 hours of a new engine can make a difference to the performance and life of the engine

During the first 8 hours of operation, Dixie Chopper recommends the following.

- Allow the engine to reach a temperature of at least 140°F (60° C) before operation at full load.
- Check the engine oil level two times a day. Higher than normal oil use can occur during the first 5 hours.
- Change the engine oil and oil filter after the first 5 hours of operation.
- Refer to the Engine manual for specified maintenance intervals.

**NOTICE**

The mower operates and cuts correctly at the preset governor setting. Do not change the engine governor setting or over speed the engine.

# MAINTENANCE

## Engine Oil

### Check engine oil level

Check the engine oil level before you start the engine or at least five minutes after you stop the engine.

1. Park the mower on a level surface.
2. The dipstick is found on the engine behind the seat. Remove the dipstick. Clean the dipstick with a cloth and replace in position.
3. Remove the dipstick and check the oil level. The oil level must be between the two level indicators on the dipstick.

### Change Engine Oil and Filter

Refer to the Engine Manual for any specific requirements for changing the oil and filter

1. Start the engine to increase the temperature, then stop the engine.
2. Place a container capable of holding one gallon under the engine.
3. Remove the oil drain plug and allow the engine oil to drain into a container.
4. Remove the oil filter.
5. Let the engine oil flow into a container.
6. Clean the filter area on the engine.
7. Apply a thin layer of oil to the gasket on new filter. Install the oil filter.
8. Tighten the filter until the gasket contacts the oil filter adapter, then tighten an additional 1/2 to 3/4 turn. Only use your hand to tighten the filter.
9. Replace the oil drain plug and fill the engine with the correct quantity and grade of oil through the dipstick tube.
10. Start the engine and check around the oil filter gasket for leaks.
11. Stop the engine and check the engine oil level.

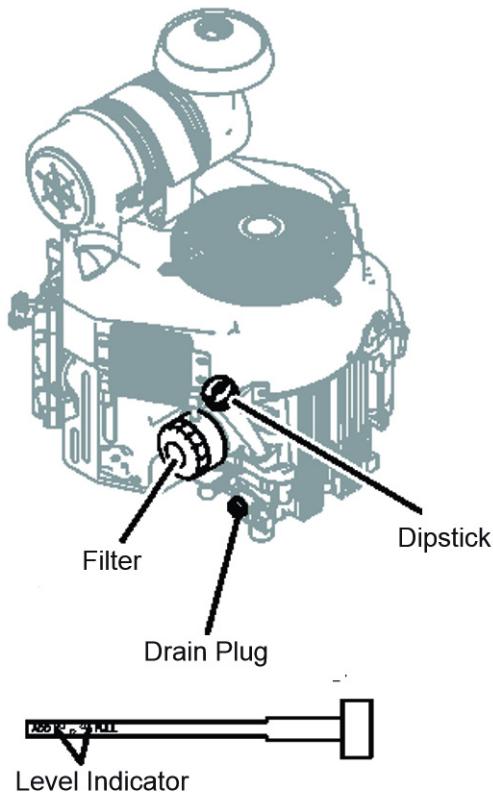
**CAUTION**

The engine oil can damage your skin. Use gloves when you use engine oil. If engine oil touches your skin, clean the area immediately.  
Discard used engine oil as shown in local regulations.

## Engine Air Filter

Refer to the Engine Manual for any specific requirements for servicing the air filter.

## Kawasaki Engine



Ops-2983

# MAINTENANCE

## MAINTENANCE

Do not remove the filter to inspect air cleaner. Removal of the filter that is not necessary increases the risk of dust and other particles to enter the engine.

Clean or replace the outer filter element every 100 hours. Replace the inner element every third change of the outer filter.

When service is needed, first clean the outside of the filter housing, then remove the outer element. Only remove the inner element if replacement is needed.

Clean the inside of the filter housing. Make sure dust and other particles do not get into the engine inlet hose.

Inspect the new elements. Do not use a damaged element and never use an incorrect element.

Assemble the inner and outer filter elements. Make sure the elements seat correctly.

Assemble the cap to the filter housing. Make sure the cap seals around the filter housing. The dust ejector on the cap must be at the bottom of the filter. Fasten the cap with the two clips.

Check the air filter hoses for wear or damage. Make sure the hose clamps are tight and hold the hoses in position.

## Engine Exhaust

### **WARNING**

The exhaust fumes contain carbon monoxide. The carbon monoxide in the exhaust fumes can increase to dangerous levels. To protect you from carbon monoxide poisoning, inspect the complete exhaust system every month and replace damaged components immediately. Never operate the engine with enough ventilation.

The temperature of the exhaust components can be greater than 300° (149° C). To prevent the burns, do not touch a hot exhaust system.

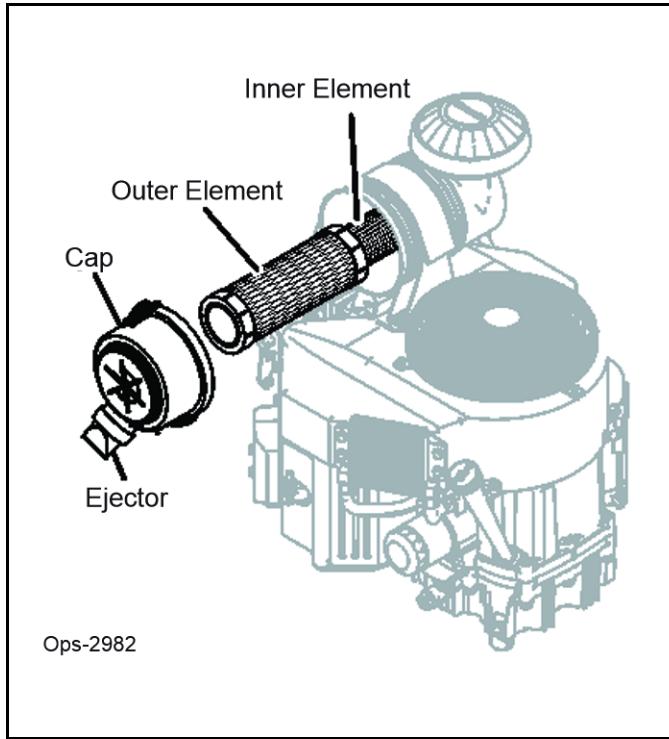
If you sense a change in the color or sound of the exhaust, stop the engine immediately. Identify the problem and have the system repaired.

Torque all exhaust manifold hardware equally. Tighten or replace the exhaust clamps.

## Fuel

### **CAUTION**

Gasoline is flammable. Use caution when you add fuel to the mower. Only use an approved container. The spout on the container must fit inside the fuel filler neck. Never use containers that are not approved to keep or transfer fuel.



# MAINTENANCE

## WARNING

Refuel the mower before you start the engine. When the engine is in operation or while the engine is hot, never remove the fuel cap or add fuel to the mower.

Refuel outdoors only and do not smoke when you add fuel.

If fuel spills do not try to start the engine, but move the mower away from the area. Until fuel vapors are removed, do not allow the sparks, open flame or other types of ignition.

Never keep fuel containers near an open flame or any device that can cause the ignition of fuel or fuel vapors.

Always tighten the fuel tank cap and container cap after you add fuel.

## MAINTENANCE

Fill the fuel tank to the bottom of the filler neck.

Do not use premium gasoline or an oil-gasoline mixture. Use clean, fresh, regular unleaded gasoline, 85 octane minimum. When using blended fuel, do not use a blend with more than 10% ethanol. Under no circumstances should you use a blend with methanol. Refer to the engine's operator manual for fuel recommendations when using blended fuel.

Check fuel hoses and clamps every 50 hours. Replace fuel hoses and clamps at first indication of wear or damage.

Keep fuel according to your local, state or federal regulations and instructions from your fuel supplier.

Never allow the tank to become empty.

## BATTERY

### Charging the Battery

## WARNING

Charge the battery in an area with good airflow. The battery can release hydrogen gas that is explosive. To prevent an explosion, keep any device that can cause sparks or flames away from the battery.

When the battery charger is turned on, to prevent injury, stay away from the battery. A battery that is damaged can cause an explosion.

Read the battery charger manual for specified instructions on the operation of the charger.

When possible, remove the battery from the mower before you charge the battery. If the battery is not sealed, check and make sure the level of the electrolyte is above the plates in all of the cells.

Make sure the battery charger is turned OFF, then connect the battery charger to the battery terminals as specified in the battery charger manual.

Always turn OFF the battery charger before you disconnect the battery charger from the battery terminals.

### Servicing the Battery

Before you service the battery, make sure the ignition switch is in the OFF position and the key is removed.

## CAUTION

When you service the battery, always use the tools with insulation, wear protective glasses and protective clothing.

Discard used batteries as shown in your local regulations.

# MAINTENANCE

## WARNING

The battery contains corrosive acid. Prevent contact with the battery acid.

## WARNING

The battery post, battery terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and other reproductive harm.

Tighten the battery cables on the battery terminals. To prevent corrosion, apply a layer of silicone dielectric grease to battery terminals and ends of cables. Keep the vent caps and battery terminal covers in position.

Before you do any welding operation on the mower, always disconnect the battery cables from the battery.

Confirm the battery polarity before you connect or you disconnect the battery cables.

When you install the battery, always connect the positive (RED) battery cable before the negative (BLACK) battery cable.

When you remove the battery, always disconnect the negative (BLACK) battery cable before the positive (RED) battery cable.

## Jump-Starting the Mower

1. Before you try to jump-start the mower, check the condition of the drained battery.
2. Connect the positive (+) battery terminal of the charged battery to positive battery terminal of the drained battery.
3. Connect the negative (-) battery terminal of the charged battery to frame of vehicle with the drained battery.

## WARNING

The battery can release hydrogen gas that is explosive. To decrease the risk of an explosion, prevent sparks near the battery. Always connect the negative jumper cable to the frame of the mower with the drained battery.

4. When the cables are connected start the engine on the vehicle with the good battery, then start the mower.

## DRIVE SYSTEM

### Drive System Hoses

## WARNING

To prevent injury from the hot, high pressure oil, never use your hands to check for oil leaks. Use paper or cardboard to find leaks.

Always lower the cutting unit, disengage all drives, engage parking brake, stop the engine and remove the key before you inspect or disconnect drive system lines or hoses.

Check visible hoses each day. Look for wet hoses or oil marks. Replace worn or damaged hoses before you operate the mower.

The replacement hose must be sent in the same path as the original hose. Do not move the clamps, brackets and cable-ties to a new location.

Completely inspect all hoses and connections every 250 hours.

# MAINTENANCE

## Important

If the drive system fluid becomes dirty, damage to the drive system can occur. Before you disconnect any drive system component, clean the area around the fittings and the ends of the hoses to prevent dirt to enter the system.

Before you disconnect any drive component, tag or mark the location of each hose then clean the area around the fittings.

To prevent dirt to enter the drive system when you disconnect the component, be prepared to assemble plugs or caps to the ends of hoses and open ports. Clean any drive system fluid that spills.

Make sure "O" rings are clean and hose fittings are correctly installed before you tighten.

Prevent the hose to twist. The twisted hoses can cause the hose connections to loosen as the hose moves while you operate the mower and can cause oil leaks.

The drive system hoses that are twisted or have sharp bends can decrease the oil flow and cause damage to the hoses. The decreased oil flow can cause system problems and increase the temperature of the drive system fluid.

## Drive System Fluid

Drain and replace the drive system fluid if one of the following occurs.

- Component failure
- Water or foam is in the drive system fluid
- The drive system fluid has a rancid odor (indication of high heat)
- Every 500 hours of each year, which is the first to occur.

Always replace the filter when you replace the drive system fluid.

1. Clean the area around the oil cap and drain plug to prevent dirt to enter the hydraulic system.
2. Place a container capable of holding 2 gallons under the hydraulic tank.
3. Remove drain plug from the bottom of the tank.
4. After the oil has drained, install drain plug and fill tank with drive system fluid.
5. Start the engine and remove the air from the drive system. Operate all mower functions for 5 minutes to remove the air and to balance the drive system fluid level.
6. When the oil-level has balanced and the air is removed, add fluid to the tank to the full mark on the dipstick.

# MAINTENANCE

## MAINTENANCE

### Drive System Filter

The drive system is protected by one 40 micron filter. Replace the drive system filter when the drive system oil is replaced.

When you replace the filter,

1. Fill the new filter with drive system fluid and lubricate the filter O-ring with drive system fluid before you assemble the new filter. Tighten the filter with you hand.
2. Operate the engine at idle speed for five minutes to remove the air from the drive system.
3. Stop the engine and check the level of drive system fluid in the tank. Add the drive system fluid to the full mark on the dipstick.

### TIRES AND WHEELS

#### Tires

Keep the tires correctly inflated to increase tire life. Inspect the tread wear.

Check the tire pressure each day, while the tires are cool. Use an accurate low-pressure tire gauge.

Keep the rear tires inflated to 8-10 psi (0.55-0.69 BAR). Front tires are foam filled.



DO NOT try to put a tire on a rim unless you have the correct training, tools and experience. Incorrect mounting can cause an explosion which can cause injury.

If only the front or back of the mower is lifted, put the chocks in front of and behind the wheels that are not lifted.

Remove dirt, grease and oil from the stud threads. Do not lubricate threads.

Put the wheel on the hub. Inspect the wheel to make sure of full contact between surface of wheel and hub. Tighten all hardware with your fingers, then torque hardware in a criss-cross order. When possible, tighten nuts in the top position.

Check and torque hardware each day until torque is kept at 65/75 ft.lb. (88-102 Nm).

### FOLDING ROPS

A folding Roll Over Protective Structure (ROPS) is installed on this mower. Inspect th ROPS periodically for loose hardware or damage.



Keep the ROPS hardware correctly fastened. Do not do welding operations, drill, change or bend the ROPS. Replace damaged ROPS. Do not try to correct a damaged ROPS.

Every 400 hours, inspect the seat, seat belt, RPOPS mounting hardware and ROPS frame for damage. Replace all damaged parts immediately. All replacement parts for the ROPS must be as specified in the Parts Manual.

Check and torque all ROPS hardware every 100 hours.

Only operate the mower with ROPS in the folded position on flat and level surfaces. Do not operate the mower with the ROPS in the folded position on slopes, ear sharp edges or near water.

**NOTE:** There is no roll over protection with the ROPS in the folded position.



To prevent injury when you fold the ROPS, use caution to prevent you fingers being crushed between moving and rigid parts of the ROPS.

Always wear the seatbelt with the ROPS frame in the vertical and locked position.

**Never wear the seatbelt with the ROPS in the folded position.**

# MAINTENANCE

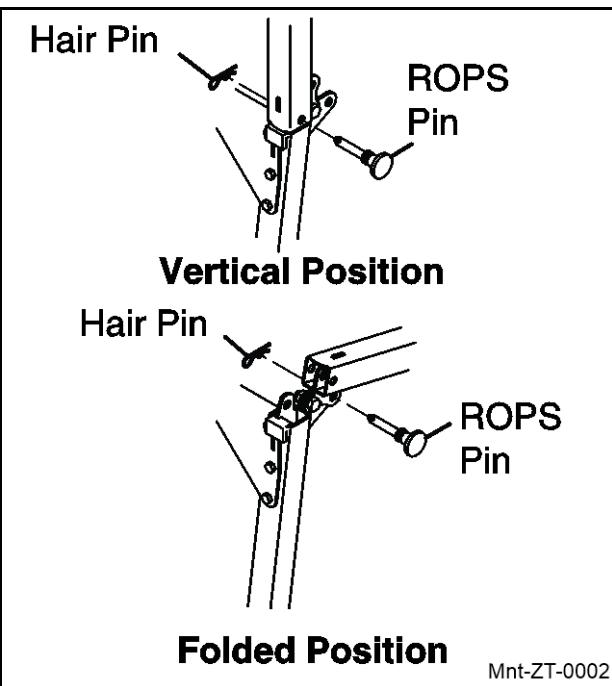
## MAINTENANCE

### Folding the ROPS:

- A. Remove the hair pin and ROPS pin from both side of the ROPS.
- B. Fold the ROPS toward the back of the mower.
- C. Assemble the ROPS pin and hair pin to lock the ROPS in the folded position. **NEVER** wear the seat belt with the ROPS in the folded position.

### leaning Grass Build Up Under Deck

Depress the deck lift foot pedal and lock in position, then move the height adjustment pin to the 4-1/2" position. Lift the front of the unit and support unit securely. Clean out any grass build up from underside of deck and in deck discharge chute.



Mnt-ZT-0002

## AIR COOLING SYSTEM

### NOTICE

Do not use water to clean the engine. Water can cause contamination in the fuel system.  
Use a brush or clean cloth to clean the engine.

The engine on the mower is an air-cooled engine. Dirt and other objects can decrease the air flow and cause the engine to overheat, cause bad performance and decreased engine life.

Use a brush or a dry cloth to clean the air intake area.

Keep throttle linkage, springs and controls clean.

Use compressed air to remove debris from the engine oil cooler fins.

Refer to the Engine manual for additional information.

## BLADES

### Inspecting Blades

#### CAUTION

Be careful when you check blades to prevent pinching hands and fingers between ends of the blades.

#### WARNING

Never try to correct or repair a damaged blade. Always replace a damaged blade. The bends, grooves or cracks can cause a piece of the blade to become loose and be discharged from the mower. The broken blade pieces can cause injury to persons or property damage.

Every 50 hours of operation or when the unit is removed from the mover, carefully inspect the blades to make sure the blades are in good condition. Replace any blade that has bends, grooves or cracks.

# MAINTENANCE

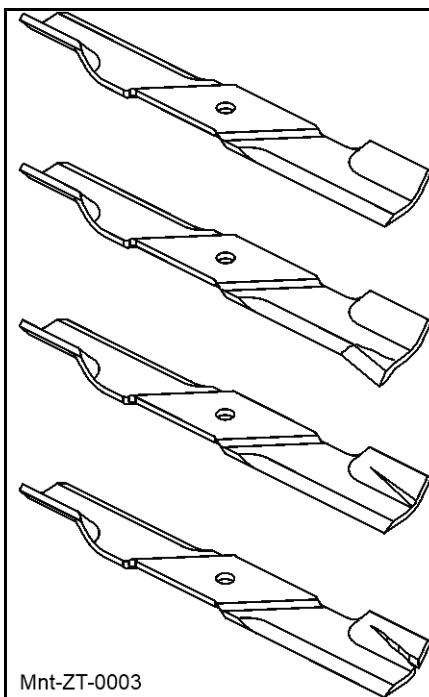
## MAINTENANCE

A bent blade can have a small crack that can increase and cause a piece of the blade to break. The bent blades can cause vibration and other stress on the mower.

The dust or sand particles can wear a dangerous groove in the blade between the air vanes and the flat part of the blade. The groove can quickly increase in size and allow a piece of the blade to break.

### Pump Drive Belt Tension Adjustment

1. Stop engine and remove key.
2. The pump drive belt tension is adjusted through a spring loaded idler pulley.
3. Adjust the eye bolt so the spring length is 7" (measured to the inside of the spring loops).



Mnt-ZT-0003

## Sharpening Blades

### **WARNING**

Be careful and wear gloves when you check or service the cutting unit blades. Use a brush to remove grass clippings from the blades. The blades are sharp and can cause injuries.

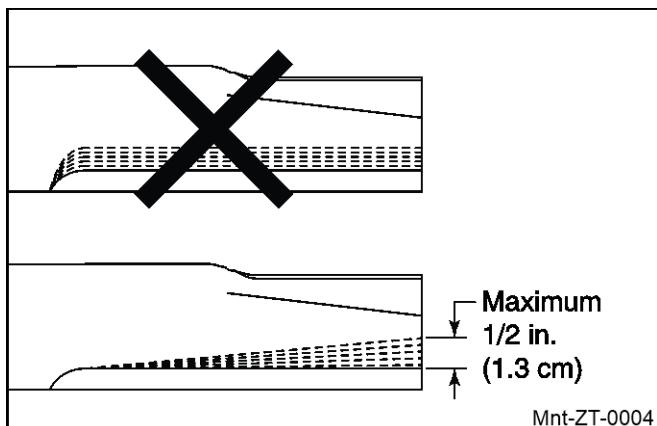
When you remove more than one half inch of material, the blade tip can break and be discharged from the mower. The broken blade pieces can cause injury to persons or property damage.

Put a wooden block between the blade and cutting unit housing to prevent the blade to rotate.

When you prepare or sharpen the blade, do not follow the original grind pattern. Grind new cutting edges at an angle. If the maximum of one half inch (1.3 cm) blade loss has occurred do not sharpen more, replace the blade.

To prevent a blade that is not balanced, make sure an equal amount of material is removed from both ends of the blades. A blade that is not balanced will cause vibration and can damage the mower. Use a blade balancer to check the blade after you sharpen.

Torque center blade bolt to 115-130 ft.lb. (156 to 176 Nm).



# MAINTENANCE

## ELECTRICAL SYSTEM

**CAUTION**

Always turn the ignition switch to the off position and remove the negative (BLACK) battery cable before you inspect or service the electrical system.

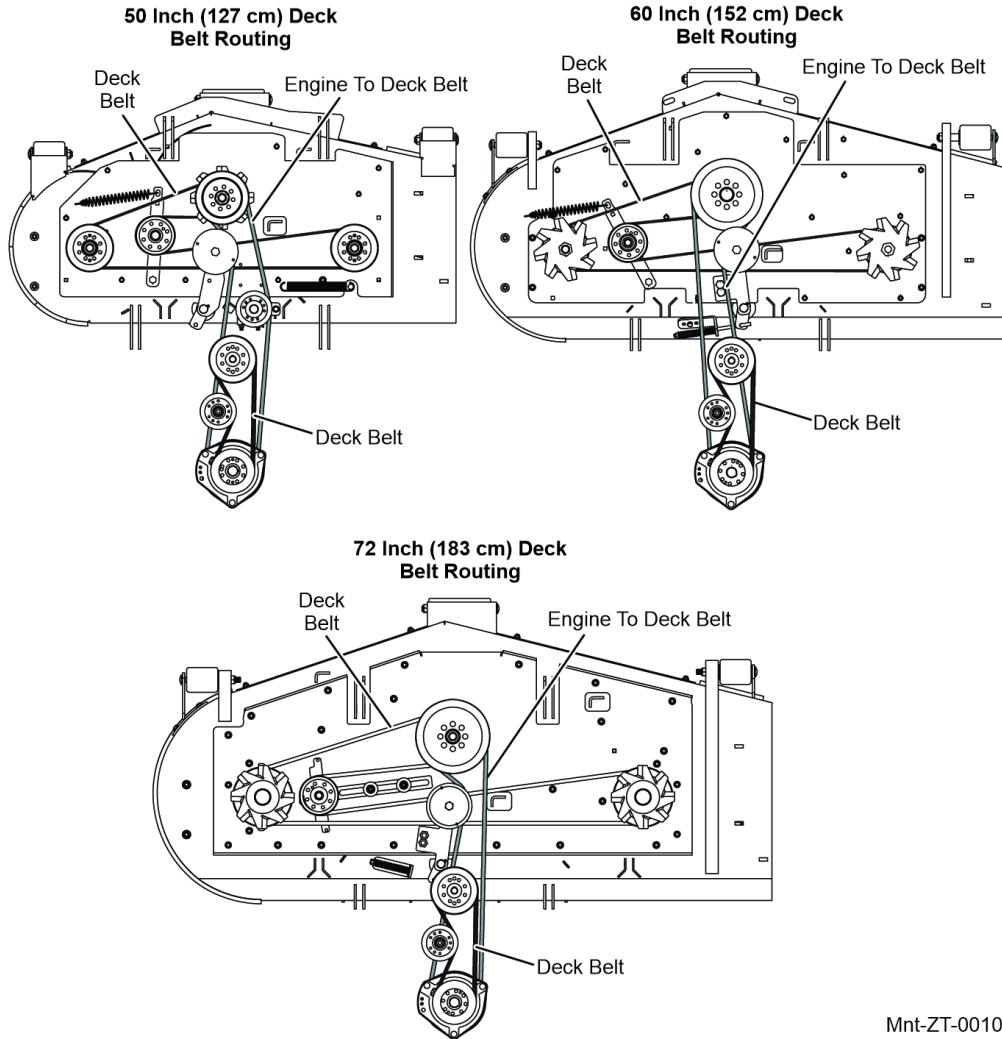
General precautions to decrease electrical problems are:

- Make sure that all the connections are clean and correctly fastened.
- Check the Interlock System and fuses at normal intervals. If the Interlock System does not operate correctly and you cannot correct the problem, contact an authorized Dixie Chopper Dealer.
- Keep the wiring harness away from hot surfaces and moving parts.
- Check the battery and the charging system.
- Do not wash or pressure spray around electrical connections and components.

## BELTS

Replace the belts if they show signs of cuts, tear, burns caused by slipping or excessive wear.

To remove the belts, reduce belt tension by pulling the idler pulley away from the belt. Note the belt routing and remove the belts from the pulleys. The new belt must use the same belt routing.



Mnt-ZT-0010

# MAINTENANCE

## PROPER TORQUE FOR FASTENERS

The torque values included in these charts are approximate and are for reference only. Use these torque values at your risk. Dixie Chopper is not responsible for any loss, claim or damage caused by these charts. **Always use caution with torque values.**

RECOMMENDED TORQUE IN FOOT POUNDS 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.

Dixie Chopper use Grade 5 (Inch) and Grade 8.8 (Metric) plated bolts, unless a note is given, Always check the marks on the head of the bolts for the bolt grade. For tightening plated bolts, use the value given for lubricated.

SIZE	UNITS	GRADE 5		GRADE 8		SIZE	UNITS	GRADE 5		GRADE 8	
		Lubricated	Dry	Lubricated	Dry			Lubri- cated	Dry	Lubri- cated	Dry
#6-32	in-lb (Nm)	—	20 (2.3)	—	—	7/16-14	ft-lb (Nm)	37 (50.1)	50 (67.8)	53 (71.8)	70 (94.9)
#8-32	in-lb (Nm)	—	24 (2.7)	—	30 (3.4)	7/16-20	ft-lb (Nm)	42 (56.9)	55 (74.6)	59 (80.0)	78 (105)
#10-24	in-lb (Nm)	—	35 (4.0)	—	45 (5.1)	1/2-13	ft-lb (Nm)	57 (77.2)	75 (101)	80 (108)	107 (145)
#10-32	in-lb (Nm)	—	40 (4.5)	—	50 (5.7)	1/2-20	ft-lb (Nm)	64 (86.7)	85 (115)	90 (122)	120 (162)
#12-24	in-lb (Nm)	—	50 (5.7)	—	65 (7.3)	9/16-12	ft-lb (Nm)	82 (111)	109 (148)	115 (156)	154 (209)
1/4-20	in-lb (Nm)	75 (8.4)	100 (11.3)	107 (12.1)	143 (16.1)	9/16-18	ft-lb (Nm)	92 (124)	122 (165)	129 (174)	172 (233)
1/4-28	in-lb (Nm)	85 (9.6)	115 (13.0)	120 (13.5)	163 (18.4)	5/8-11	ft-lb (Nm)	113 (153)	151 (204)	159 (215)	211 (286)
5/16-18	in-lb (Nm)	157 (17.7)	210 (23.7)	220 (24.8)	305 (34.4)	5/8-18	ft-lb (Nm)	128 (173)	170 (230)	180 (244)	240 (325)
5/16-24	in-lb (Nm)	173 (19.5)	230 (26.0)	245 (27.6)	325 (36.7)	3/4-10	ft-lb (Nm)	200 (271)	266 (360)	282 (382)	376 (509)
3/8-16	ft-lb (Nm)	23 (31.1)	31 (42.0)	32 (43.3)	44 (59.6)	3/4-16	ft-lb (Nm)	223 (302)	298 404	315 (427)	420 (569)
3/8-24	ft-lb (Nm)	26 (35.2)	35 (47.4)	37 (50.1)	50 (67.8)	7/8-14	ft-lb (Nm)	355 (481)	473 (641)	500 (678)	668 (905)
SIZE	UNITS	4.6		8.8		10.9		12.9		Non Critical Fasteners into Aluminum	
		Lubricated	Dry	Lubricated	Dry	Lubricated	Dry	Lubricated	Dry		
M4	Nm (in-lb)	—	—	—	—	—	—	3.83 (34)	5.11 (45)	2.0 (18)	
M5	Nm (in-lb)	1.80 (16)	2.40 (21)	4.63 (41)	6.18 (54)	6.63 (59)	8.84 (78)	7.75 (68)	10.3 (910)	4.0 (35)	
M6	Nm (in-lb)	3.05 (27)	4.07 (36)	7.87 (69)	10.5 (93)	11.3 (102)	15.0 (133)	13.2 (117)	17.6 (156)	6.8 (60)	
M8	Nm (in-lb)	7.41 (65)	9.98 (88)	19.1 (69)	25.5 (226)	27.3 (241)	36.5 (323)	32.0 (283)	42.6 (377)	17.0 (150)	
M10	Nm (ft-lb)	14.7 (11)	19.6 (14)	37.8 (29)	50.5 (37)	54.1 (40)	72.2 (53)	63.3 (46)	84.4 (62)	33.9 (25)	
M12	Nm (ft-lb)	25.6 (19)	34.1 (25)	66.0 (48)	88.0 (65)	94.5 (70)	125 (92)	110 (81)	147 (108)	61.0 (45)	
M14	Nm (ft-lb)	40.8 (30)	54.3 (40)	105 (77)	140 (103)	150 (110)	200 (147)	175 (129)	234 (172)	94.9 (70)	

Mnt-ZT-0006

# MAINTENANCE

## CARE AND CLEANING

Clean the mower and cutting units after each use. To prevent damage to the engine do not wash the mower with the engine in operation. When possible, clean the mower with compressed air.

**NOTICE**

Do not wash any part of the mower that is hot. Do not use the high-pressure spray or steam. Use cold water and automotive cleaners.

Do not use a pressure washer to clean the deck. Water can get in and under seals and cause damage to the equipment.

Use Compressed air to clean the engine and the engine oil cooler fins. Do not pressure wash the engine.

Clean the underside of the deck frequently.

Use clean water to wash your equipment.

**NOTICE**

To use salt water or drain water is known to cause rust and corrosion of metal parts and can cause damage or failure. This damage is not included by the factory warranty.

Do not spray water at the control panel, ignition switch or other electrical components.

Clean all plastic or rubber parts with a weak soap solution or use commercially available rubber cleaners.

Repair damaged metal surfaces and use Dixie Chopper touch-up paint. Apply wax to the equipment for maximum paint protection.

**CAUTION**

to prevent fire, clean grass clippings and dirt from the cutting unit, drives, engine and exhaust components.

**WARNING**

Never use your hands to clean cutting units. Use a brush to remove grass clippings from the blades. The blades are sharp and can cause injuries.

# MAINTENANCE

## MAINTENANCE

## MOWER STORAGE

### General

- Clean the mower and lubricate. Repair and paint damaged or open metal
- Inspect the mower, tighten all hardware, replace worn or damaged components.
- Clean the tires and keep the mower so that the load is not on the tires. If the mower is not on the jack stands, check tires at normal intervals and add air when needed.
- Keep the mower and all accessories clean, dry and protected from the elements. Never keep the mower near an open flame or spark which can cause ignition of the fuel or fuel vapors.

### Battery

- Remove, clean and keep the battery in the upright position on a surface that is not metal in a cool dry location. To prevent increased battery discharge, do not keep the battery on a metal surface.
- Check and charge the battery every 60 to 90 days.
- Keep the battery in a cool dry location. To decrease the self discharge rate, the temperature must no be more than 80° F (27° C) or less than 20° F (-7° C).

### Engine

- Change the engine oil and filter.
- Clean the outside surface of the engine. Paint bare metal or apply a thin layer of rust preventative oil.
- Add a fuel stabilizer to prevent the fuel to become stale. See you fuel supplier for instructions. Start the engine. Operate the engine for two minutes to circulate the stabilizer throughout the fuel system.

### Cutting Units

- Completely clean the cutting units. Repair and paint any damaged or bare metal surfaces.
- Lubricate all grease fittings and friction points.
- Apply a thin layer of rust preventative oil to the sharpened edges of the blades.

#### CAUTION

The cutting unit blades can have sharp edges. To prevent injury, use caution when you service or hold the blade.

### After Storage

- Check and install the battery,. If necessary, charge the battery.
- Check or service the fuel filter and air cleaner
- Check the level of engine oil and drive axle fluid.
- Fill the fuel tank with fuel.
- Make sure the tires are correctly inflated.
- Remove all oil from the blades. Start the engine at 1/2 throttle. Allow the engine to become warm and lubricated.

#### WARNING

Never operate the engine without enough ventilation or in an enclosed area. The carbon monoxide in the exhaust fumes can increase to dangerous levels.

# MAINTENANCE

## GUIDELINES FOR THE DISPOSAL OF SCRAP PRODUCTS

### During Service Life

The used oil, oil filters and engine coolant are hazardous materials. Follow the recommended procedures for their safe removal.

If a fluid leaks, contain the spill to make sure that the leak does not flow into the ground or drainage system. Follow the local laws to make sure that leaks are controlled safely.

The maintenance procedures in this manual make sure that the damage that the mower can cause in the local environment is controlled safely.

Take these actions after mower completes its full service life.

### End of Service Life

Use these guidelines with applicable Health, Safety and Environmental laws. Always use the approved local waste disposal and agencies for recycled materials.

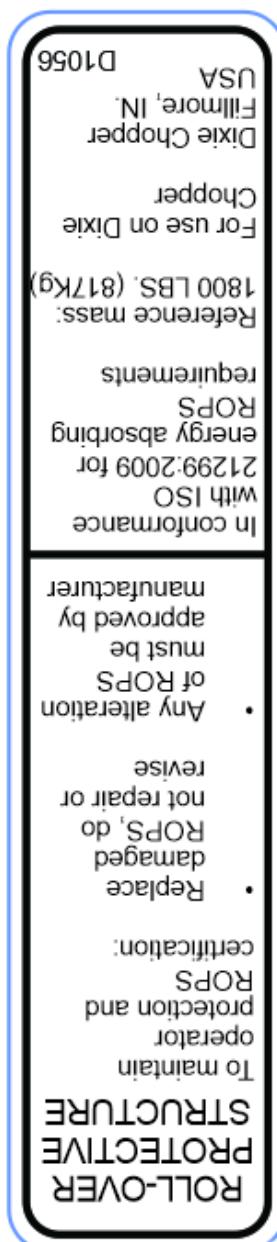
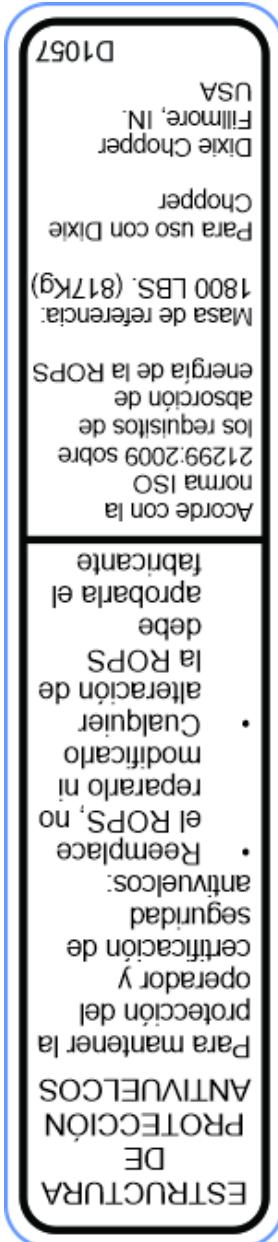
- Park the mower in a location to use all of the necessary lifting equipment.
- Use the correct tools and Personal Protective Equipment (PPE) and take instruction from the technical manuals applicable to the mower.
- Remove and keep correctly:
  1. Batteries
  2. Fuel
  3. Engine Coolant
  4. Oils
- Disassemble the structure of the mower and refer to the technical manuals. Give attention to parts that have mechanical pressure or tension applied to the part in the mower including springs.
- Separate items that continue to have service life and returned to storage
- Separate items that are worn into the material groups and removed according to the agencies for the recycled materials that are available. Common types are as shown:
  - Steel
  - Non ferrous metals
    - Aluminum
    - Brass
    - Copper
  - Plastic Materials
    - Identified
    - Can be recycled
    - Cannot be recycled
    - Not Identified
  - Rubber
  - Electrical and Electronic Components
- Add items that cannot be easily separated into different materials to the "General discarded materials" area.
- Do no burn the discarded material

Change the mower records to show that the mower is not in service and is discarded. Supply this serial number to Dixie Chopper Warranty Department to close their records.









## SEGURIDAD

SEGURIDAD

Do not operate without Operator Controlled Discharge Chute (OCD), Discharge Deflector, entire Grass Collection System, or Mulching Kit System installed. Do not move Grass Catcher until blades have stopped. Failure to follow these instructions can result in death or serious injury due to thrown objects or contact with moving blades.

Do not operate with a loose or damaged grass collection chute (OCD), discharge deflector, or mulching kit system. Do not move grass collection system until blades have stopped. Failure to follow these instructions can result in death or serious injury due to thrown objects or contact with moving blades.

Do not operate with a loose or damaged grass collection chute (OCD), discharge deflector, or mulching kit system. Do not move grass collection system until blades have stopped. Failure to follow these instructions can result in death or serious injury due to thrown objects or contact with moving blades.

Do not operate with a loose or damaged grass collection chute (OCD), discharge deflector, or mulching kit system. Do not move grass collection system until blades have stopped. Failure to follow these instructions can result in death or serious injury due to thrown objects or contact with moving blades.

## A D V E R T E N C I A

Operar esta máquina con el aceite de boquilla en alta temperatura / bajo operable o desconectado, anula todas las garantías expresas o implícitas.

## A V I S O

Operando esta máquina con aceite a alta temperatura / bajo operable o desconectado, voids all warranties expressed or implied.

## N O T I C E

Revise el aceite en la caja de cambios cada 50 horas. Utilice aceite para engranajes SAE 80W-90 (PN 902310) con aceite para engranajes SAE 80W-90 (PN 902310).

## A V I S O

Check Oil in Gearbox Every 50 Hours. Located between pumps, fill to top of cross shaft with SAE 80W-90 Gear Oil (PN 902310).

## N O T I C E

Se recomienda aceite SAE 15W-40 para VTC-Velvet Touch Control. No agregue líquido de transmisión automática. Hay un o aceites multi-viscosidad menor que SAE 20W-50. Los intervalos de cambio de aceite deben ser cada 500 horas o inmediatamente si hay humedad.

## A V I S O

### CHECK FLUID LEVEL BEFORE EACH USE

DO NOT add automatic transmission fluid. Hytrain, or multi-vis oils with less than SAE 20W-50 viscosity. SAE 15W-40 oil is recommended for VTC-Velvet Touch Control. Oil change intervals should be every 500 hours or immediately if moisture is present.

## N O T I C E

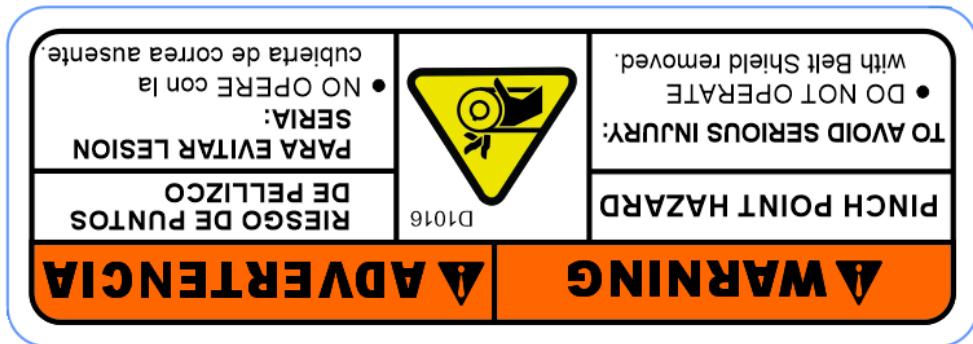
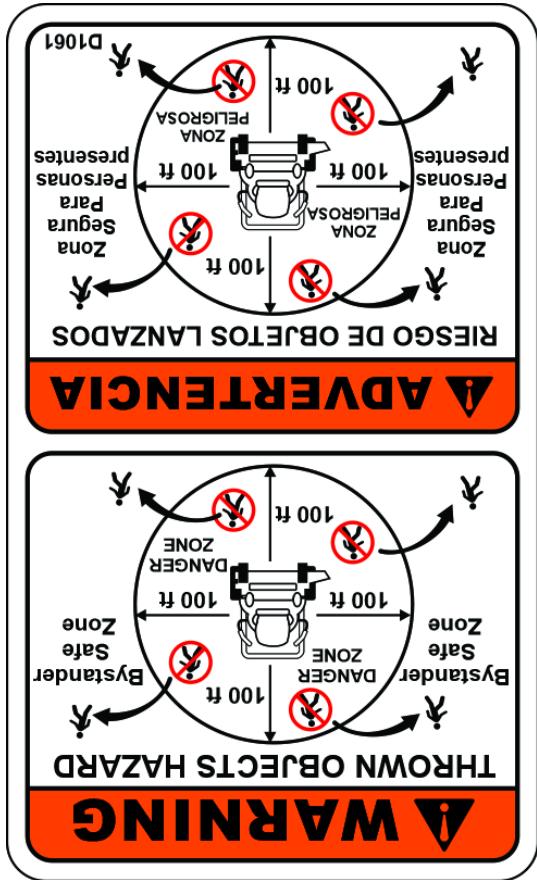
No operar sin el desacoplador de césped o sistema de colección (OCD), desacoplador de desacoplador. Sistema de colección completa de césped o sistema de colección (OCD), desacoplador de desacoplador por el operador detenido. No quitar recogedor de césped o sistema de jengibre de mulching instalado. No quitar recogedor de césped o sistema de jengibre de mulching instalado.

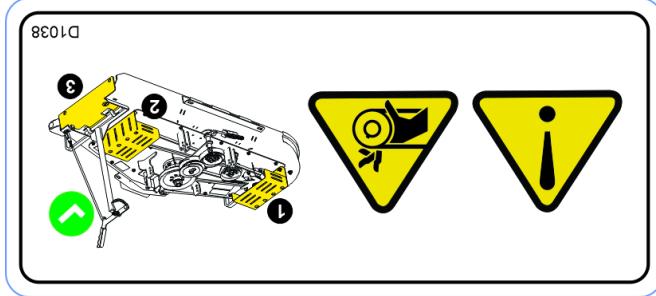
Operar esta máquina con aceite de boquilla en alta temperatura / bajo operable o desconectado, anula todas las garantías expresas o implícitas.

## A V I S O

Operando esta máquina con aceite a alta temperatura / bajo operable o desconectado, voids all warranties expressed or implied.

## N O T I C E

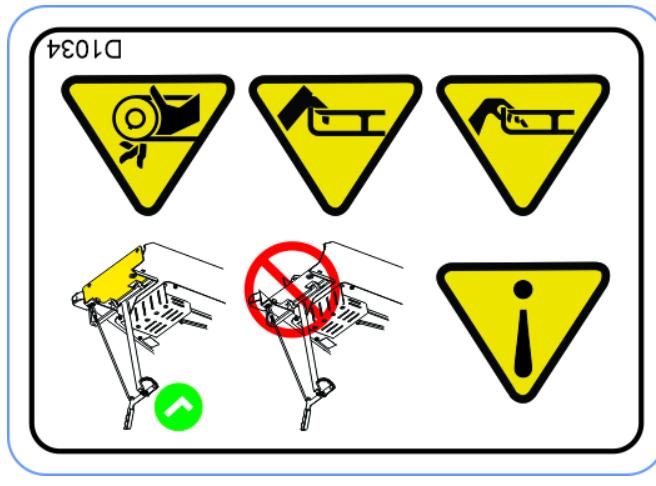




No coloque las manos ni los pies cerca de las piezas giratorias o debajo de la plataforma de corte. El contacto con la (s) cuchilla (s) puede amputar manos y pies. Asegúrese de que todos los dispositivos de seguridad (protectores, escudos, interruptores, etc.) estén en su lugar y funcionando. El contacto con la correa y / o el eje de la hoja puede aplastar o lesionar partes del cuerpo.

## AMPUTACIÓN - EVITE LAS LESIONES POR

**ADVERTENCIA**

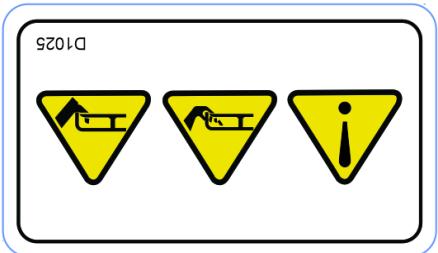


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## AMPUTACIÓN - EVITE LAS LESIONES POR

**ADVERTENCIA**

## SEGURIDAD

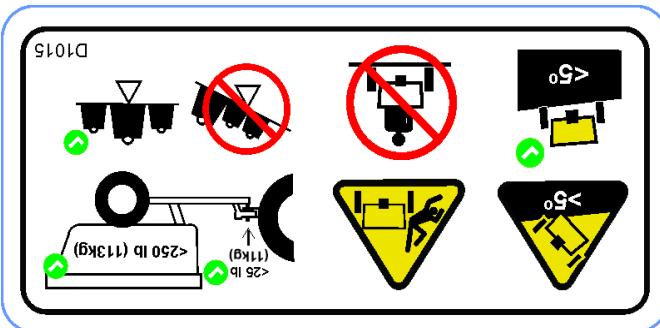


## AMPUTACIÓN - EVITE LAS LESIONES POR

ADVERTENCIA

No coloque las manos ni los pies cerca o debajo de la plataforma de corte. El contacto con la (s) cuchilla (s) puede amputar manos y pies.

many pies.



## **- EVITE LESIÓNES RELACIÓ- NADAS CON EL REMOLQUE**

ADVERTENCIA

Mantenga a los ayudantes al menos a 75 (23 metros) de la máquina durante la operación. Quite todos los piedras, palos, alambres, huecos, juncos, otros objetos extraños que puedan ser reconocidos y arrojados por las cuchillas. No opere el tractor sin la tapa de descarga o el recogedor de espesas completo en su lugar correcto.



## **- EVITAR LESIONES POR OBJETOS LANZADOS**

ADVERTENCIA

## SEGURIDAD

# SEGURIDAD

Lea, comprenda y siga todas las reglas y instrucciones de seguridad en los manuales y en el tractor antes de intentar operar este tractor. El incumplimiento de esta información puede resultar en lesiones personales o la muerte. Guarde este manual en un lugar inteligente, escanee el símbolo del código QR para obtener más información sobre las advertencias contenidas en este manual. También puede visitar [www.OPESymbol.com](http://www.OPESymbol.com) para obtener más información.

## AUDITIVA

## ADOR - USE PROTECCIÓN

## LEE EL MANUAL DEL OPER-



Para evitar accidentes de retroceso, siempre mire hacia atrás y hacia abajo para ver si hay niños pequeños. Nunca lleve atras y atras, mantenga adentro a pasajadas. Mantenga adentro a mascotas durante la operación y los transenfrentes, niños y alquileres que no sea el operador. Detenga el tractor si responsable que no sea el adulto bajo el cuidado de un adulto que maneja el tractor si alguién ingresa al área.

## LA HOJA A UN NIÑO

## RETROCESO/ LESIONES DE

## - EVITE LESIONES POR EL



# SEGURIDAD

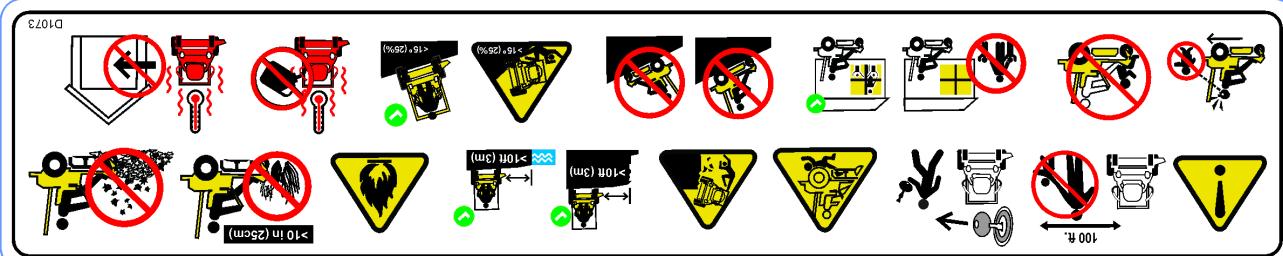
Su tractor está diseñado para cortar césped residencial normal de una altura no superior a 10 "(25 cm). No intente cortar pasto seco inusualmente alto (p. Ej., pastos) o montones de hojas secas. Deje que el tractor se enfrie por lo menos cinco minutos antes de cargar combustible o almacenarlo dentro de un garaje cerrado o cobertizo de almacenamiento.

### - EVITAR INCENDIOS

No opere la máquina en una pendiente superior a 15° (25%). No corte el césped hacia arriba o hacia abajo, solo corte en pendientes de menos de 15 grados (25%). Utilice velocidades bajas y evite giros repentinos en pendientes. Mantengase al menos a 10 pies (3 metros) de desniveles, zanjas, terraplenes o el borde del agua.

### VELOCIDAD

### - EVITE LAS LESIONES POR



Descripción de Calcomanía

## SEGURIDAD

## SEGURIDAD

Sección de Seguridad 1-19

Classic 09/21

[www.alagqr.com/bpm](http://www.alagqr.com/bpm)

Manuales de Partes y Operador

### CONSULTE A SU DISTRIBUIDOR DE BUSH HOG

Las cortadoras de giro cero Bush Hog utilizan componentes del sistema equilibrados y combinados para los componentes y los cojinetes de las cuchillas. Estas piezas se fabrican y prueban según las especificaciones de Bush Hog. Las piezas que no son originales "universales" no cumplen consistentemente con estas especificaciones. El uso de piezas que no son originales "universales" puede reducir el rendimiento del cortacésped de giro cero, anular las garantías y presentar un peligro para la seguridad. Utilice piezas originales de cortacésped Bush Hog para mayor economía y seguridad.

### INFORMACION DE PARTES

[www.alagqr.com/dpm](http://www.alagqr.com/dpm)

Manuales del operador y de piezas

### CONSULTE A SU DISTRIBUIDOR DE DIXIE CHOPPER

Las cortadoras de giro cero Dixie Chopper utilizan componentes del sistema equilibrados y combinados para los componentes y los cojinetes de las cuchillas. Estas piezas se fabrican y prueban según las especificaciones de Dixie Chopper. Las piezas que no son originales "universales" no cumplen consistentemente con estas especificaciones. El uso de piezas que no son originales "universales" puede reducir el rendimiento del cortacésped de giro cero, anular las garantías y presentar un peligro para la seguridad. Utilice piezas originales de cortacésped Dixie Chopper para mayor economía y seguridad.

### INFORMACION DE PARTES

### INFORMACION DE PARTES

# SEGURIDAD

# SEGURIDAD

- Tenga mucho cuidado al cargar y descargar una cortadora de giro cero en un camión o remolque con rama.
- Utilice solo una rama de ancho completo; no utilice ramas individuales para cada lado de la unidad.
- Tener una rama de ancho completo proporciona una superficie para que el chasis de la cortadora de giro cero entre en contacto si la unidad comienza a inclinarse hacia atrás. También reduce el riesgo de que una rueda se salga y la cortadora de giro se vuelque.
- No exceda un ángulo de 15 grados entre la rama y el suelo o entre la rama y el remolque o camión.
- Evite la aceleración repentina cuando este en una rampa. PN TH-ZT-02 SP

### Using A Ramp

- Tenga cuidado al cargar o descargar la cortadora de giro cero en un remolque o camión.
- Utilice ramas de ancho completo para cargar la cortadora de giro cero en un remolque o camión.
- Ate la cortadora de giro cero de forma segura con correas, cadenas, cables o cuerdas. Tanto las correas de lanteras como las traseras deben dirigirse hacia abajo y hacia afuera desde la cortadora de giro cero.
- Utilice ramas de ancho completo para cargar la cortadora de giro cero en un remolque o camión.

## SEGURIDAD

### Transportación

- Respete siempre las leyes de tránsito mientras conduce la cortadora de césped de un lugar a otro. Este atento al tráfico cuando opere cerca de carreteras o cuando las cruce.
- TENG CUIDADO CON EL TRAFICO cerca de carreteras y al cruzar carreteras.
- ESTA CORTADORA DE GIRO CERO NO ES PARA USO EN CARRERA O CALLE. No es un vehículo recreativo y no debe utilizarse como tal.
- Utilice ramas de ancho completo para cargar la cortadora de giro cero en un remolque o camión.

Verifique las regulaciones de tráfico por carretera aplicables antes de transportar en vías públicas. Si se transporta la cortadora de giro cero, siempre debe usar equipo de protección aprobado y asegurarse de que el transportador de giro cero esté bien anclado. No opere esta cortadora de giro cero en vías públicas.

## CONDUCIÓN Y TRANSPORTE EN VÍAS PÚBLICAS

## SEGURIDAD

## SEGURIDAD

## PRECAUCIONES DE SERVICIO DE BATERÍA

SEGURIDAD

 <p>Utilice siempre protección para los ojos cuando realice el mantenimiento de la batería.</p>	 <p>Evite el contacto de la piel y la ropa con el aceite de batería.</p>	 <p>Evite el contacto de la piel y la ropa con el aceite de batería.</p>	 <p>Carque las baterías en un área ventilada.</p>	 <p>El gas de hidrógeno dentro de la batería puede provocar un incendio o explosión o destruir la batería.</p>	 <p>No fumar, no llamas ni calor intenso.</p>	 <p>Las herramientas eléctricas provoquen un incendio o explosión.</p>	 <p>El uso de hidrógeno dentro de la batería puede causar una explosión.</p>	 <p>No fumar, no llamas ni calor intenso.</p>	 <p>Utilice siempre protección para los ojos cuando realice el mantenimiento de la batería.</p>
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Los bornes, terminales y accesorios relacionados de la batería contienen plomo y compuestos de plomo, sustancias químicas recocidas en el estado de California como estados de cancer y daños causantes de cancer y daños reproductivos. Lávese las manos después de manipularlo.	Cargue las baterías en un área abierta bien ventilada, lejos de chispas y llamas. Desenchufe el cargador antes de conectarlo o desenchufe el cargador de la batería. Use ropa protectora y use hermanas aisladas.	Evite el contacto de la piel y la ropa con el ácido de la batería. No beba el electrolito de la batería.	Siempre use protección para los ojos cuando revise la batería. El ácido puede provocar lesiones graves en la piel y los ojos. Si ocurre el contacto, lave el área con agua limpia y llame un médico de inmediato. El ácido también dañará la ropa.	No permita llamas abiertas cerca de la batería durante la carga.	Se forma hidrógeno en el interior de la batería. Este gas es tóxico e inflamable y puede causar una explosión si se expone a las llamas.	Desconecte siempre los cables negativos (negros) de la batería antes de desconectar los cables positivos (rojos). Siempre conecte el cable positivo (rojo) de la batería antes de conectar el (los) cable (s) negativo (s).
No sobre llene la batería. El electrolito puede desbordarse y dañar la pintura, el cableado o la estructura. Cuando limpíe la batería, use agua y jabón. Tenga cuidado de que no entre agua y jabón en la batería. Limpie los terminales de la batería con una solución de cuarto de agua y una parte de bicarbonato de sodio cuando se corraan.	Los cortocircuitos causados ¿?por los terminales de la batería o las hermanas causadas de gases de la batería que resultarán en explosión de chispas. Las chispas pueden provocar metalicas que tocan los componentes metalicos de la batería. Evite que los terminales de la batería toquen las partes metálicas de la batería cuando se extinga o instale la batería.	No permita que las hermanas metálicas provoquen un cortocircuito entre los terminales de la batería y las piezas metálicas de la batería. El entramiento incorrecto de los cables de la batería podrá dañar la corriente y los cables que de la batería causar una explosión de gases que de la batería.	El entramiento incorrecto de los cables de la batería causará una explosión de gases que de la batería.	No permita que las hermanas metálicas provoquen un cortocircuito entre los terminales de la batería y las piezas metálicas de la batería. El entramiento incorrecto de los cables de la batería causará una explosión de gases que de la batería.	No permita que las hermanas metálicas provoquen un cortocircuito entre los terminales de la batería y las piezas metálicas de la batería. El entramiento incorrecto de los cables de la batería causará una explosión de gases que de la batería.	No permita que las hermanas metálicas provoquen un cortocircuito entre los terminales de la batería y las piezas metálicas de la batería. El entramiento incorrecto de los cables de la batería causará una explosión de gases que de la batería.
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# SEGURIDAD

**A PELIGRO** PARA EVITAR LESIONES GRAVES O LA MURTE POR PENETRACIÓN DE FILTRACIONES DE ACEITE HIDRÁULICO DE ALTA PRESIÓN:

- **NO OPERE** el equipo con filtraciones de aceite o combustible.
- **MANTENGA** todas las mangüeras hidráulicas, líneas y conexiones en **BUEN ESTADO** y AJUSTADAS antes de aplicar presión al sistema.
- **LIBERÉ LA PRESIÓN HIDRÁULICA** antes de desconectar las líneas o trabajar en el sistema.
- **QUITÉ** y reemplace la mangüera si sospecha que tiene filtraciones. Solicite al distribuidor que verifique si hay filtraciones.
- **LAS FILTRACIONES DE LÍQUIDO DE ALTA PRESIÓN PUEDEN NO SER VISIBLES.** AL VERIFICAR FILTRACIONES HIDRÁULICAS Y TRABAJAR CERCA DE LOS SISTEMAS HIDRÁULICOS:
  - **SIEMPRE USE** gafas de seguridad y guantes impermeables.
  - **USE** papel o cartón para verifcar si hay filtraciones.
  - **NO USE** las manos o partes del cuerpo para detectar filtraciones.
  - **MANTENGA** las manos y el cuerpo **LEJOS** de los orificios de clavijas y boquillas de eyeción de fluido hidráulico.
  - **EL** fluido hidráulico puede causar gangrena si no es extirpado quirúrgicamente de inmediato por un médico especializado en este tipo de lesiones. PN HP01 SP

	Penetración de aceite de alta presión en la piel Erosión de la piel por el aceite de alta presión Usar cartón para detectar filtraciones de aceite	Presión en la piel aceite de alta presión filtraciones de aceite
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## PELIGRO DE FUGAS DE ACEITE A ALTA PRESIÓN

## SEGURIDAD

## SEGURIDAD

## SERVICIO DE MANTENIMIENTO Y ALMACENAMIENTO SEGURIDAD

SEGURIDAD

INSPRECION DE PROTECTORES DE SEGURIDAD, CUBIERTAS Y DISPOSITIVOS DE SEGURIDAD.

- MANTENGÁ todos los detectores, canal, protectores integrales, faldones laterales y rodillos anti-desborce en su lugar y en buenas condiciones.
- SUSTITUYA los cubiertas, protectores y dispositivos de seguridad que faltan, estén rotos o gastados. Si alguno de los interruptores de seguridad dejá de funcionar, hágalos reparar inmediatamente.

## INSPECCIÓN DE LAS CUCHILLAS

- **Tenga cuidado al revisar las cuchillas.** Encuéntrevala (a) cuchilla (s) o use guantes acolchados (s) cuchilla (s) o use guantes acolchados gneosos y tenga cuidado al darles servicio. Solo reemplace las cuchillas; no los enderece ni slide. SUSTITUYA inmediatamente las cuchillas dobradas, dañadas, agrietadas o rotas por cuchillas nuevas.

**ADVERTENCIA**

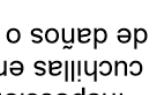
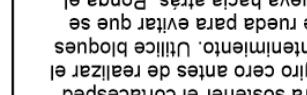
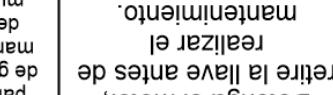
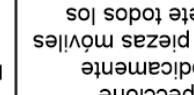
PN MS-ZT-02 SP

- MANTENGÁ todos los detectores, canal, protectores integrales, faldones laterales y rodillos anti-desborce en su lugar y en buenas condiciones.
- SUSTITUYA los cubiertas, protectores y dispositivos de seguridad que faltan, estén rotos o gastados. Si alguno de los interruptores de seguridad dejá de funcionar, hágalos reparar inmediatamente.

CORTADORA DE GIRON CERO:

## LIBRIGACIÓN Y MANTENIMIENTO DESCRIPTOS

• EVITE las fallas de las cuchillas y las cuchillas rotas lanzadas. NO enderece, suelde ni suelde cuchillas de revestimiento duro.

	<b>Wheel Chocks</b> 	<b>Detenga el motor,</b> 	<b>Retire la llave antes de</b> 	<b>Periodicamente</b> 
	<b>Utilice soportes de gato</b> 	<b>Para sostener el coche</b> 	<b>Realizar el</b> 	<b>Periodicamente</b> 





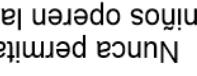
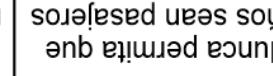
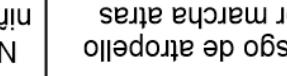
SEGURIDAD

## SEGURIDAD CONTRA INCENDIOS Y COMBUSTIBLE

SEGURIDAD

- INSPECIONE el área de corte en busca de líneas eléctricas aéreas o subterráneas, cables y estructuras de gas, líneas de servicios públicos, municipales o de otro tipo..
- MANTENGA la cortadora de giro cero a una distancia de 10 pies o más de todas las líneas eléctricas y líneas de servicios públicos, municipales y estructurales.
- MANTENGA la cortadora de giro cero a una distancia de 10 pies o más de todos los edificios y servicios públicos, municipales o de otro tipo..
- NO permita que la cortadora de giro cero entre en contacto con estructuras y obstrucciones de tipo..
- NO permita que la cortadora de giro cero entre en contacto con líneas de servicios públicos, municipales o de tipo..
- NO permita que la cortadora de giro cero entre en contacto con líneas de servicios públicos, municipales o de tipo..

## SEGURIDAD

 <p>Riesgo de atropello</p> <p>Nunca permita que los niños operen la computadora</p>	 <p>Riesgo de atropello</p> <p>Nunca permita que los niños sean pasajeros</p>	 <p>Riesgo de atropello</p> <p>Nunca permita que los niños sean pasajeros</p>	 <p>Riesgo de atropello</p> <p>Nunca permita que los niños sean pasajeros</p>
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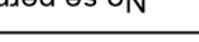
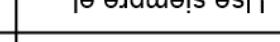
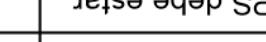
## SEGURIDAD CONTRA NIÑOS

SEGURIDAD

SEGURIDAD

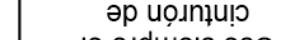
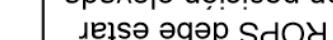
## **RIESGO DE ATROPELLO**

SEGURIDAD

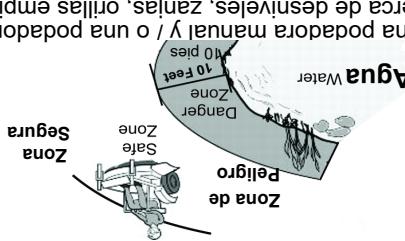
Riesgo De Atropellar	ROPs debe estar en posición elevada	Use siempre el cinturón de seguridad	No se permite Pasajeros
			

## USO ROPs Y CINTURONES DE SEGURIDAD AL OPERAR EN PENDIENTES (CONT.)

## SEGURIDAD

 <p>No Pasajeros</p>	 <p>Use siempre el cinturón de seguridad</p>	 <p>ROPS debe estar en posición elevada en posición elevada</p>	 <p>Peligro de vuelco</p>
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peligros para evitar que una rueda se caiga por el borde o para evitar que el suelo se rompa.

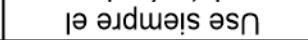
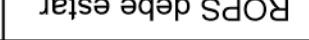


- Se necesita el cuidado mayor cada vez que aumenta el pendiente.
- Tenga EXTREMA precaución al correr el cesped y/o de tracción y/o vuelaço. El operador es responsable de una operación segura.
- Si se desliza el corredora de giro cero de la pendiente, con extrema precaución.
- Espere hasta que se resuelva la condición que causa el problema antes de intentar operar en la pendiente nueva. Las condiciones del terreno pueden afectar la tracción resultando en una posible pérdida de control del corredora de giro cero. Algunas de las condiciones a tener en cuenta son:
  - Terreno mojado
  - Deslizamientos en el suelo; es decir, agujeros, surcos, deslizamientos
  - Tipo de tierra; es decir, arena, tierra seca, grava, arcilla
  - Tipo de cesped, densidad y altura
  - Condiciones de lluvia
  - extremadamente secas
  - desniveles y elevalociones, que combinan el angulo de obstáculos. Elimine obstáculos como rocas, ramas
  - Tenga cuidado cerca de desniveles, zonas de árboles, etc.
  - desniveles. El corredora de giro cero podrá volcarse repentinamente si una rueda pasa por el borde de un acantilado o una zanja, o si un borde se desmorona.
  - Corte el césped a una distancia segura (mínimo de 10 pies) de desniveles, muros de contención, zonas de drenaje, terraplenes, muros de contención, zonas de drenaje.

SEGURIDAD

USO ROPS Y CINTURONES DE SEGURIDAD AL OPERAR EN PENDIENTES

SEGURIDAD

Peligro de Vuelco	No Pasajeros	ROPS debe estar en posición elevada en posición de cinturón de seguridad	Use siempre el cinturón de seguridad
			



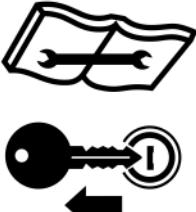
# SEGURIDAD

**ADVERTENCIA**

**MANTENGASE ALEJADO DE LAS CUCHILLAS GIRATORIAS PARA EVITAR LA MUERTE O LESIONES GRAVES:**

- EVITE EL CONTACTO CON LAS PIEZAS EN MOVIMIENTO. Mantenga alejado las manos y cubiertas de seguridad en su lugar, excepto para el servicio.
- Mantenga siempre los protectores y las cubiertas de seguridad en su lugar, excepto para el servicio.
- Arriande el motor solo desde el asiento del operador.
- Permanezca siempre sentado mientras opera el cortador de giro cero.
- Mantenga siempre alejado de las cuchillas y accesorios de la podadora de giro cero durante su funcionamiento.
- Nunca coloque las manos o los pies debajo de ninguna parte del cortador de giro cero mientras este en funcionamiento.
- Nunca deje el cortador de giro cero desatendido con el motor en marcha. Espera desatendido los sonidos antes de dejar el motor.
- Siempre que se detenga todas las piezas móviles y todos los sonidos antes de dejar el asiento del operador. Ponga siempre el freno de mano en un cortador de giro cero desatendido.
- Detenga el motor antes de dejar las transmisiones y ponga el freno de mano.
- Operador por cualquier motivo, incluido vaciar el tanque de combustible, desatenga las transmisiones y ponga el freno de mano.

**PN MB-ZT-01**

No ponga los dedos debajo de la cortadora	No ponga el pie debajo de la cortadora	Detenga el trácto. Quite la llave. Lea el Manual
		

## PELIGROS DE CONTACTO CON LA CUCHILLA DE LA CORTADORA

# SEGURIDAD



- Asegure siempre que el ROPS esté en la posición elevada y abroche el cinturón de seguridad antes de encender la cortadora de giro cero.
- Nunca deje desatascar una cortadora de giro cero en funciónamiento.
- Antes de dejar el asiento del operador por cualquier motivo, incluido desatascar el canal:
- Desengase siempre del nivel del suelo.
- Desacople el embague del la cortadora de giro cero.
- Coloque las palancas de control de la dirección en la posición del freno.
- Parar el motor
- Espere a que el motor y todas las partes móviles se detengan por completo.

## SEGURIDAD EN EL FUNCIONAMIENTO DE CORTADORA

griego. Estos operadores deben evaluar su capacidad para operar la cortadora de giro con la suficiente seguridad para protegerse a sí mismos y a los demás de lesiones graves.

SEGURIDAD

## SEGURIDAD DEL OPERADOR

SEGURIDAD

Leer y comprender el manual del operador	Utilice siempre gafas de seguridad para los oídos	Utilice siempre zapatos de seguridad para el trabajo	Nunca use drogas o alcohol cuando opere el equipo	Use protección para los oídos
				

## CONSIDERACIONES Y PRECAUCIONES DE SEGURIDAD IMPORTANTES

Además del diseño y la configuración del cortadora de giro cero, el control de peligros y la prevención de accidentes dependen de la conciencia, la prudencia y la formación adecuada del personal en la operación, transporte, mantenimiento y almacenamiento de giro cero. La falta de atención a accidentes puede resultar en accidentes, lesiones personales, reducción de la eficiencia, lo peor de todo, la pérdida de vidas. Esté atento a los peligros de seguridad y corríjalas deficiencias de inmediato. Utilice las sugerencias de precauciones de seguridad como una guía general para operaciones seguras cuando utilice la frecuencia hasta que conozca las limitaciones.

DIXIE CHOPPER COMPARTE SU DESEO DE PROTEGERSE A USTED MISMO, A SU FAMILIA, A SUS PERSONAS QUE OPERAN, DAN SERVICIO O ESTAN ASOCIADAS DE OTRA FORMA con la cortadora de giro cero deben recibir capacitación sobre su uso adecuado y advertirles de sus peligros. Antes de operar, ajustar o reparar la cortadora de giro cero, deben leer y comprender este manual completo y el manual del motor.

La siguiente lista contiene información de seguridad específica de la cortadora de giro cero Dixie Chopper y otra información de seguridad que debe conocer y seguir. Esta cortadora de giro cero es capaz de amputar manos y pies, y de lanzar objetos. Siempre use las instrucciones de seguridad para evitar lesiones graves o la muerte.

Esta cortadora de giro cero diseñada para cortar y reciclar césped cortado. Qualquier uso aparte de a esto podría resultar peligroso para el usuario y los espectadores.

**NOTA:** Si desea obtener una traducción de esta sección de seguridad en alguno de los siguientes idiomas, comuníquese con: Translations, a la dirección 1502 E. Walnut Street Seguin, TX 78155; Fax: (830) 372-9529, La Sección de Seguridad está disponible en español, portugués, francés, alemán, ruso. PN 601 SP

<p><b>PELIGRO DE SEGURIDAD</b></p> <p><b>PROCEDIMIENTO DE SEGURIDAD</b></p> <p><b>PREVENCIÓN DE EVITACIÓN</b></p> <p>Un cráneo con una barra indica una acción que está prohibida.</p> <p>EJEMPLO:</p> 	<p><b>EJEMPLO:</b></p> <p>El pictograma rodeado por un triángulo indica un peligro de seguridad que debe evitarse.</p> <p>El pictograma rodeado por un triángulo indica un peligro de seguridad que debe evitarse.</p> <p>El pictograma que se debe seguir para evitar una acción que se debe seguir para evitar lesiones.</p>  	<p><b>EJEMPLO:</b></p> <p>El pictograma que se debe seguir para evitar una acción que se debe seguir para evitar lesiones.</p> <p>El pictograma que se debe seguir para evitar una acción que se debe seguir para evitar lesiones.</p> <p>El pictograma que se debe seguir para evitar una acción que se debe seguir para evitar lesiones.</p> 
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Los pictogramas se utilizan a lo largo de este manual para ayudar a que su aprendizaje visual se centre en los problemas de seguridad.



**NOTA:** Identifica aspectos de particular interés para lograr una operación o preparación más eficiente y conveniente.

Indica información considerada importante, pero no relacionada con riesgos (por ejemplo, mensajes relacionados con daños a la propiedad).

## AVISO

Indica una situació peligrosa imminent que, de no ser evitada, PODRIA OCASIONAR UNA LESIÓN MENOR.

PRECAUCIÓN

INDICA UNA SITUACIÓN PELIGROSA INMEDIANTE QUE, DE NO SER EVITADA, PODRÍA OCASIONAR LA MUERTE O UNA LESIÓN MUY GRAVE.

ADVERTISING

Indicar una situación peligrosa inminente que, de no ser evitada, OCASIONARÁ la MUERTE O UNA LESIÓN MUY GRAVE.

PELIGRO

Adopte todas las medidas habituales para tratar de que la seguridad dependa de usted. Solo usted puede impedir una lesión grave o la muerte a causa de prácticas no seguras.

**“!ATENCIÓN! MANTENGA SE ALERTA! ¡SU SEGURIDAD ESTA EN JUEGO!“** El símbolo y la Señal Verbal tienen el objetivo de advertir al propietario/operador sobre un riesgo inminente y el grado de lesión que se puede producir al operar este equipo.

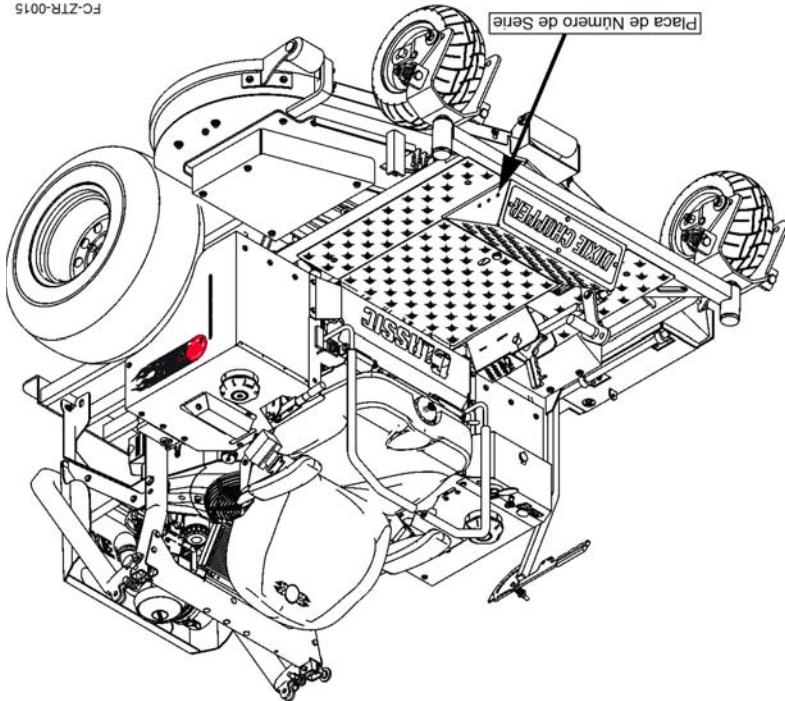
## INSTRUCCIONES DE SEGURIDAD Y PRÁCTICAS GENERALES

SEGURIDAD

SEGURIDAD

Sección de Seguridad 1-1

# SECCIÓN DE SEGURIDAD



Distribuidor:		Telefono:	Fecha de compra:	Número de serie:	Dueño:
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Para referencia futura, registre el número de modelo y el número de serie de RHINO que ha adquirido.

Los cuidados que brinda a su implemento Rhino determinarán en gran medida su satisfacción con el desempeño y la vida útil del equipo. Lea con atención y siga las instrucciones de este manual para comprender cabalmente su uso y el del equipo. No permita que nadie opere el equipo sin haber leído y comprendido la totalidad de este manual. Todas las referencias que se hacen en este manual a derecha, izquierda, frontal, trasero, arriba y abajo sujetadas al tractor.

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Comuníquese con el distribuidor si necesita explícitamente alguna instrucción que no haya comprendido del todo.

Segurízase de la Corriente AEM y el manual del operador del tractor para conocer cómo operar la máquina y realizar tareas de servicios de acuerdo a las instrucciones que son proporcionadas. El fabricante ha diseñado este implemento para ser usado con todos sus equipos de seguridad que incluyen la máquina para minimizar la probabilidad de accidentes.

Este Manual del Operador es una parte esencial de la operación segura de esta máquina y se debe mantener con la unidad siempre. El implemento incluye un portafolios donde se puede guardar el manual de manejo adicional. Si el manual se extravía o se daña, puede solicitar otra copia sin cargo a un distribuidor autorizado de Rhino o descargarlo del sitio web de Rhino ([www.servis-rhino.com](http://www.servis-rhino.com)).

\$0.00

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DIXIE CHOPPER®



## MANUAL DE OPERADOR

Parte n.º: DC4D0030C

Published 09/21

2750kW, 2760kW, 3560kW, 3572kW  
MODELOS:

Cortadora de Giro Cero  
Classic

