

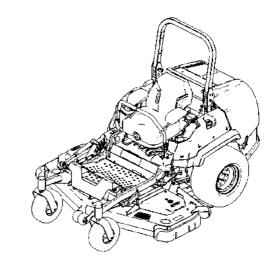
Form No. 3434-326 Rev G

Operator's Manua

Z Master® Professional 7500-D Series Riding Mower

with 60in or 72in TURBO FORCE® Mower

Model No. 72028—Serial No. 400000000 and Up Model No. 72029—Serial No. 400000000 and Up Model No. 72074—Serial No. 400000000 and Up Model No. 72076—Serial No. 400000000 and Up



Register at www.Toro.com. Original Instructions (EN)



It is a violation of California Public Resource Code Section 4442 or 4443 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the engine is equipped with a spark arrester, as defined in Section 4442, maintained in effective working order or the engine is constructed, equipped, and maintained for the prevention of fire.

The enclosed engine owner's manual is supplied for information regarding the US Environmental Protection Agency (EPA) and the California Emission Control Regulation of emission systems, maintenance, and warranty. Replacements may be ordered through the engine manufacturer.

Please refer to the engine manufacturer's information included with the machine.

Gross or Net Torque: The gross or net torque of this engine was laboratory rated by the engine manufacturer in accordance with the Society of Automotive Engineers (SAE) J1940 or J2723. As configured to meet safety, emission, and operating requirements, the actual engine torque on this class of mower will be significantly lower. Please refer to the engine manufacturer's information included with the machine.

Go to www.Toro.com to view specifications on your model.

A WARNING

CALIFORNIA Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

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.

Use of this product may cause exposure to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Introduction

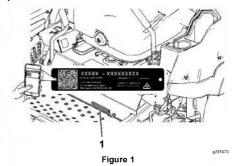
This rotary-blade, riding lawn mower is intended to be used by professional, hired operators. It is designed primarily for cutting grass on well-maintained lawns on residential or commercial properties. Using this product for purposes other than its intended use could prove dangerous to you and bystanders.

Read this information carefully to learn how to operate and maintain your product properly and to avoid injury and product damage. You are responsible for operating the product properly and safely.

Visit www.Toro.com for product safety and operation training materials, accessory information, help finding a dealer, or to register your product.

Whenever you need service, genuine Toro parts, or additional information, contact an Authorized Service Dealer or Toro Customer Service and have the model and serial numbers of your product ready. Figure 1 identifies the location of the model and serial numbers on the product. Write the numbers in the space provided.

Important: With your mobile device, you can scan the QR code (if equipped) on the serial number decal to access warranty, parts, and other product information.



1 Model and serial number location

| Model No | |
|------------|--|
| Serial No. | |

This manual uses 2 words to highlight information. Important calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

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Safety

Safety-Alert Symbol

The safety-alert symbol (Figure 2) shown in this manual and on the machine identifies important safety messages that you must follow to prevent accidents.



Figure 2 Safety-alert symbol

The safety-alert symbol appears above information that alerts you to unsafe actions or situations and is followed by the word **DANGER**, **WARNING**, or **CAUTION**.

DANGER indicates an imminently hazardous situation which, if not avoided, **will** result in death or serious injury.

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

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

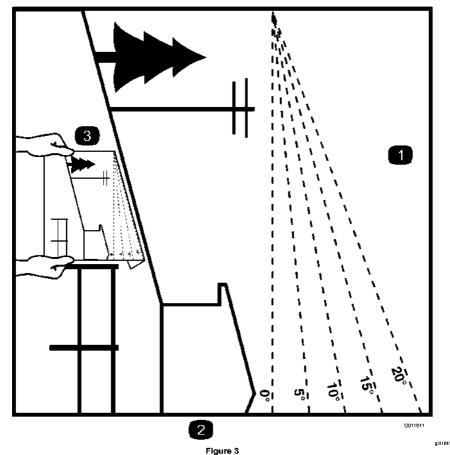
This manual uses two other words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

General Safety

This machine is capable of amputating hands and feet and of throwing objects. Toro designed and tested this lawn mower to offer reasonably safe service; however, failure to comply with safety instructions may result in injury or death.

- Read, understand, and follow all instructions and warnings in the Operator's Manual and other training material, on the machine, engine, and attachments. All operators and mechanics should be trained. If the operator(s) or mechanic(s) can not read this manual, it is the owner's responsibility to explain this material to them; other languages may be available on our website.
- Only allow trained, responsible, and physically capable operators that are familiar with the safe operation, operator controls, and safety signs and instructions to operate the machine. Never let children or untrained people operate or service the equipment. Local regulations may restrict the age of the operator.
- Always keep the roll bar in the fully raised and locked position and use the seat belt.
- Do not operate the machine near drop-offs, ditches, embankments, water, or other hazards, or on slopes greater than 15 degrees.
- Do not put your hands or feet near moving components of the machine.
- Never operate the machine with damaged guards, shields, or covers. Always have safety shields, guards, switches and other devices in place and in proper working condition.
- Stop the machine, shut off the engine, and remove the key before servicing, fueling, or unclogging the machine.

Slope Indicator



You may copy this page for personal use.

- The maximum slope you can operate the machine on is 15 degrees. Use the slope chart to determine the degree of slope of hills before operating. Do not operate this machine on a slope greater than 15 degrees. Fold along the appropriate line to match the recommended slope.
- 2. Align this edge with a vertical surface, a tree, building, fence pole, etc.
- 3. Example of how to compare slope with folded edge

Safety and Instructional Decals



Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.

1. Machine speed

2. Fast

3. Slow



Battery Symbols

Some or all of these symbols are on your battery.

- 1. Explosion hazard
- No fire, open flame, or smoking
- Caustic liquid/chemical burn hazard
- 4. Wear eye protection.
- Read the Operator's Manual

- 6. Keep bystanders away from the battery.
- 7. Wear eye protection; explosive gases can cause blindness and other injuries.
- Battery acid can cause blindness or severe burns.
- 9. Flush eyes immediately with water and get medical help fast.
- Contains lead; do not discard



Manufacturer's Mark

Indicates the blade is identified as a part from the original machine manufacturer.

99-8936

- 4. Neutral
- 5. Reverse

106-5517

decal106-5517

1. Warning-do not touch the hot surface.



58-6520

1. Grease



93-6687

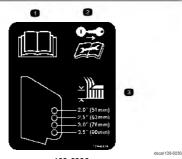
1. Do not step here.

decal58-6520



107-3069

- Warning—there is no rollover protection when the roll bar is down
- To avoid injury or death from a rollover accident, keep the roll bar in the fully raised and locked position and wear the seat belt. Lower the roll bar only when absolutely necessary; do not wear the seat belt when the roll bar is down
- 3. Read the Operator's Manual; drive slowly and carefully.



109-6036

Rear Discharge Machines Only

- Read the Operator's Manual.
- Remove the key and read the instructions before servicing or performing maintenance.
- 3. Height of cut



112-9028

decal 112-9028

decal116-5988

 Warning—stay away from moving parts; keep all guards and shields in place.



116-5988

Parking brake—engaged 2. Parking brake—disengaged

55-60 ft-lb (75-81 N-m)

0

116-8283

 Warning—read the Operator's Manual for instructions on torquing the blade bolt/nut to 75 to 81 N·m (55 to 60 ft-lb).



117-3276

decal117-3276

- Engine coolant under pressure
- Explosion hazard—read the Operator's Manual.
- Warning—do not touch the hot surface.
- Warning—read the Operator's Manual.

Side Discharge Mowers Only



126-6464

OC.MIT

- Thrown object
- hazard—keep bystanders away.
- Thrown objects hazard, mower—do not operate without the deflector, discharge cover, or grass collection system in place.
- Cutting/dismemberment hazard of hand or foot, mower blade—stay away from moving parts; keep all guards and shields in place.



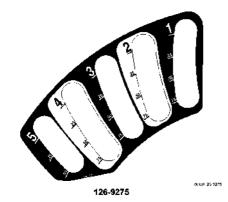
decal126-8383

126-8383

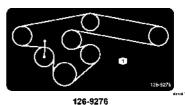
Note: This machine complies with the industry standard stability test in the static lateral and longitudinal tests with the maximum recommended slope indicated on the decal. Review the instructions for operating the machine on slopes in the *Operator's Manual* as well as the conditions in which you would operate the machine to determine whether you can operate the machine in the conditions on that day and at that site. Changes in the terrain can result in a change in slope operation for the machine.

- Warning—read the Operator's Manual; do not operate this machine unless you are trained; wear hearing protection.
- Cutting/dismemberment hazard of the hand, mower blade; entanglement hazard of the hand, belt—stay away from moving parts; keep all guards and shields in place.
- Ramp hazard—do not use dual ramps when loading onto a trailer; use 1 ramp wide enough for the machine; use a ramp with a slope less than 15°; back up the ramp when loading the machine and drive forward off the ramp when unloading.
- Runover/backover hazard—do not carry passengers; look behind you when mowing in reverse.
- Thrown object hazard—keep bystanders away.
- Tipping hazard—do not use the machine near drop-offs or on slopes greater than 15°; only operate across slopes less than 15°

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For Models with 183 cm (72-inch) Decks with Side Discharge



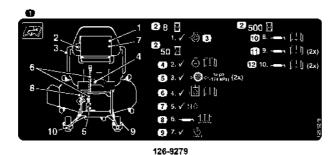
1. Belt routing

126-9278

decal 120 3578

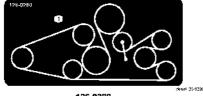
- 1. Engine—Off
- 2. Engine—On
- 3. Engine—Start

- 4. Push the bottom of the button to lower the deck.
- 5. Push the top of the button to raise the deck.



decal 120-0279

- 1. Read the instructions before servicing or performing nialntenance to the machine.
- 2. Time interval
- 3. Check the engine-oil level.
- Check the coolant level; refer to the Operator's Manual for further instructions.
- 5. Check the tire pressure (2 locations).
- 6. Check hydraulic-fluid level; refer to the Operator's Manual for further instructions.
- 7. Check the jackshaft-fluid level.
- Grease the deck-drive PTO; refer to the Operator's Manual for further instructions.
- Check the air cleener
- Grease the idler pivot; refer to the Operator's Manual for further instructions
- 11. Grease the front caster wheel bearings (2 locations); refer to the Operator's Manual for further instructions.
- 12. Grease the front caster pivots (2 locations); refer to the Operator's Manual for further instructions.



126-9280

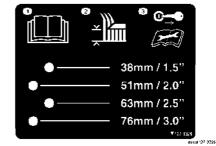
For Models with 152 cm (60-inch) or 183 cm (72-inch) Decks with Rear Discharge

1. Belt routing



126-9351

- 1. Chassis (15 A) 2. Accessory (15 A)
- 3. Main (25 A)
- 4. Power point (15 A)

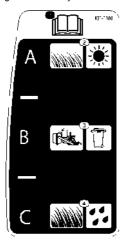


127-0326

- Read the Operator's Manual.
- 3. Remove the key and read the Operator's Manual before performing maintenance.
- 2. Height of cut

derat: 25-9351

Side Discharge Mowers Only



131-1180

1. Read the Operator's Manual. (A) Short, light grass; dry conditions; maximum dispersion; (B) Bagging setting; (C) Tall, dense grass; wet conditions; maximum ground speed



135-0328

- to 129 N·m (95 ft-lb)
- Torque the wheel lug nuts 2. Read and understand the Operator's Manual before performing any maintenance; check the torque after the first 100 hours, then every 500 hours, thereafter.

Rear Discharge Mowers Only



135-0664

decal135-0864

- Thrown object hazard-keep bystanders away.
- Cutting/dismemberment hazard of hands and feet-stay away from moving parts; keep all guards and shields in place.



135-0679

1. Rotating driveline hazard/entanglement hazard; belt-stay away from moving parts; keep all guards and shields in place



135-1432

desal 35 1433



135-2837

@F 35-2834

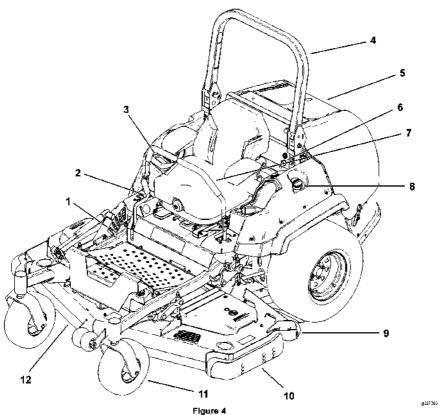
 Read the Operator's Menual for more information; Use red Toro wet-clutch transmission fluid; do not use green hydraulic fluid.

A WARNING: Canon and Repodulates Ham - ware Pethylmings.ca.gou. For nore information, press with invasitors. Apoglistical Carbogolistical California SPARK ARRESTER WARNING Operation of file according to receive speaks file can start lines into digital expension. A spark to rester may be required. The operator should contact local file agencies for laws or regulations and appropriate presention requirements.

133-8062

decal 35400

Product Overview



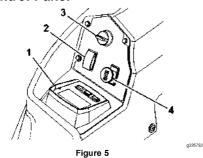
- 1. Height-of-cut pin
- Parking-brake lever
 Monitor/controls
- 4. Roll bar
- 5. Engine screen
- 6. Audible alarm and power point

- Motion-control lever
 - 8. Fuel-tank cap
 - 9. Anti-scalp roller
 - 10 Sk
 - 11. Caster wheel
 - 12. Mower deck

Controls

Become familiar with all the controls before you start the engine and operate the machine.

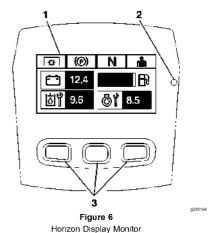
Control Panel



- 1. Horizon display monitor
- 2. Deck-lift switch
- 3. Key switch
- Blade-control switch (power takeoff)

Horizon Display Monitor

Refer to the Software Guide for detailed information explaining the operator interface that allows you to access information, reset counters, modify system settings, and troubleshoot the equipment.



3. Buttons

- Horizon Display Mi
- 2. LED status light

Information Screen

1. Screen

The information screen displays information relative to machine operation; refer to the *Software Guide* for more information.

Buttons

The multi-functional buttons are located at the bottom of the panel. The icons displayed on the information screen above the buttons indicate the current function. The buttons allow you to select the engine speed and navigate through system menus.

Refer to the Software Guide for more information.

LED Status Light

The LED status light is multi-colored to indicate the system status and is located on the right side of the panel. During startup, the LED illuminates red to orange to green to verify functionality.

- Solid green—indicates normal operating activity
- · Blinking red-indicates an active fault
- Blinking green and orange— indicates that a clutch reset is required

Refer to the Software Guide for more information.

Alarm

If an error occurs, an error message displays, the LED turns red, and the alarm sounds audibly as follows:

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- · A fast chirp sound indicates critical errors.
- A slow chirping sound indicates less critical errors, such as required maintenance or service intervals.

Note: During startup, the alarm sounds briefly to verify functionality.

Refer to the Software Guide for more information.

Hour Meter

The hour meter records the number of hours the engine has operated. It operates when the engine is running. Use these times for scheduling regular maintenance (Figure 5).

Hours are displayed in **Engine-Off** screen or in the **Engine Hour Counter** menu.

Refer to the Software Guide for more information.

Key Switch

Use this switch to start the engine. It has 3 positions: START, RUN, and OFF.

Note: The LCD indicators appear when each control meets the "safe to start" mode (e.g., the indicator turns on when you are in the seat.)

Note: The engine ECU controls the glow plugs during cold starts. If the coolant temperature is too low, the glow symbol displays on the monitor and the starter does not crank when you turn the engine to the START position. The glow plugs activate in the ON or START position. Once the glow has been on long enough for the current temperature, the glow symbol on the monitor disappears and the engine cranks when turned to the START position.

Note: The system allows you to start the machine the with the PTO switch engaged, but does not engage the blades. You must reset the PTO to engage the PTO.

Throttle Control

The throttle controls the engine speed, and there are 3 speeds; Maximum, Efficient, and Low.

Refer to the Software Guide for more information.

Blade-Control Switch (Power Takeoff)

The blade-control switch (PTO) engages and disengages power to the mower blades (Figure 5).

The LCD indicator appears on the information screen when the PTO switch is disengaged.

Note: Machines equipped with the Horizon Display Monitor have a clutch saver, which allows the throttle to automatically reduce the engine speed when you disengage the PTO switch. Engaging and disengaging the PTO switch changes the engine throttle between Mow and TRANSPORT mode.

Note: The system allows you to start the machine with the PTO switch engaged, but does not engage the blades. Engaging the PTO requires you to reset the PTO switch by disengaging, then engaging it.

Deck-Lift Switch

Press the switch rearward to raise the deck.

Press the switch forward to lower the deck.

Motion-Control Levers

Use the motion-control levers to drive the machine forward, reverse, and turn either direction (Figure 4).

Neutral-Lock Position

Move the motion-control levers outward from the center to the NEUTRAL-LOCK position when exiting the machine (Figure 21). Always position the motion-control levers into the NEUTRAL-LOCK position when you stop the machine or leave it unattended.

Parking-Brake Lever

Whenever you shut off the engine, engage the parking brake to prevent accidental movement of the machine.

Specifications

Overall Width—Side Discharge Machines

| | 60-inch Deck | 72-inch Deck |
|------------------|------------------------|------------------------|
| Without the deck | 141.2 cm (55.6 inches) | 152.4 cm (60 inches) |
| Deflector up | 156 cm (61.4 inches) | 186.4 cm (73.4 inches) |
| Deflector down | 184.9 cm (72.8 inches) | 215.6 cm (84.9 inches) |

Overall Width-Rear Discharge Machines

| 60-inch Deck | 72-inch Deck |
|------------------------|------------------------|
| 168.2 cm (66.2 inches) | 198.7 cm (78.2 inches) |

Overall Length—Side Discharge Machines

| | 60-inch Deck | 72-inch Deck |
|---------------------|------------------------|----------------------|
| Roll bar up or down | 244.9 cm (96.4 inches) | 253 cm (99.6 inches) |

Overall Length—Rear Discharge Machines

| Roll bar up or down | 255.5 cm (100.6 inches) |
|---------------------|-------------------------|
|---------------------|-------------------------|

Overall Height—All Machines

| Roll bar up | 182.4 cm (71.8 inches) |
|---------------|------------------------|
| Roll bar down | 129.5 cm (51 inches) |

Overall Height—All Machines

| Roll bar up | 182.4 cm (71.8 inches) |
|---------------|------------------------|
| Roll bar down | 129.5 cm (51 inches) |

Tread Width of Drive Wheels-All Machines

| 112 cm (44.1 inches |) |
|---------------------|---|
| | |

Tread Width of Caster Wheels (Center-to-Center of Tires)—Side Discharge Machines

| 60-inch Deck | 72-inch Deck |
|------------------------|------------------------|
| 101.3 cm (39.9 inches) | 120.7 cm (47.5 inches) |

Tread Width of Caster Wheels (Center-to-Center of Tires)—Rear Discharge Machines

| 60-inch Deck | 72-inch Deck |
|---------------------|---------------------|
| 84 cm (33.1 inches) | 84 cm (33.1 inches) |

Wheel Base (Center of Caster Tire to Center of Drive Tire)—Side Discharge Machines

| 60-inch Deck | 72-inch Deck |
|------------------------|------------------------|
| 146.3 cm (57.6 inches) | 154.7 cm (60.9 inches) |

Wheel Base (Center of Caster Tire to Center of Drive Tire)—Rear Discharge Machines

| 60-inch Deck | 72-inch Deck |
|------------------------|------------------------|
| 157.2 cm (61.9 inches) | 157.2 cm (61.9 inches) |

Attachments/Accessories

A selection of Toro approved attachments and accessories is available for use with the machine to enhance and expand its capabilities. Contact your Authorized Service Dealer or authorized Toro distributor or go to www.Toro.com for a list of all approved attachments and accessories.

To ensure optimum performance and continued safety certification of the machine, use only genuine Toro replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous, and such use could void the product warranty.

Operation

Note: Determine the left and right sides of the machine from the normal operating position.

Before Operation Before Operation Safety

General Safety

- Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by Toro.
- Inspect the area where the equipment is to be used and remove all rocks, toys, sticks, wires, bones, and other foreign objects. These can be thrown or interfere with the operation of the machine and may cause personal injury to the operator or bystanders.
- Wear appropriate personal protective equipment such as safety glasses, substantial slip-resistant footwear, and hearing protection. Tie back long hair and avoid loose clothing and loose jewelry which may get tangled in moving parts.

A CAUTION

This machine produces sound levels in excess of 85 dBA at the operator's ear and can cause hearing loss through extended periods of exposure.

Wear hearing protection when operating this machine.

- Check that the operator presence controls, safety switches, and shields are attached and functioning properly. Do not operate unless they are functioning properly.
- Do not operate the mower when people, especially children, or pets are in the area. Stop the machine and attachment(s) if anyone enters the area.
- Do not operate the machine without the entire grass collection system, discharge deflector, or other safety devices in place and in proper working condition. Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check for worn or deteriorating components and replace them with the manufacturer's recommended parts when necessary.

Fuel Safety

Use extreme care when handling fuel.

A DANGER

In certain conditions fuel is extremely flammable and vapors are explosive.

A fire or explosion from fuel can burn you, others, and cause property damage.

- Fill the fuel tank outdoors on level ground, in an open area, when the engine is cold.
 Wipe up any fuel that spills.
- Never refill the fuel tank or drain the machine indoors or inside an enclosed trailer.
- Do not fill the fuel tank completely full.
 Fill the fuel tank to the bottom of the filler neck. The empty space in the tank allows fuel to expand. Overfilling may result in fuel leakage or damage to the engine or emission system.
- Never smoke when handling fuel, and stay away from an open flame or where fuel fumes may be ignited by spark.
- Store fuel in an approved container and keep it out of the reach of children.
- Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel when engine is running or when the engine is hot.
- If fuel is spilled, do not attempt to start the engine. Move away from the area of the spill and avoid creating any source of ignition until fuel vapors have dissipated.
- Do not operate without entire exhaust system in place and in proper working condition.

A DANGER

In certain conditions during fueling, static electricity can be released causing a spark which can ignite fuel vapors. A fire or explosion from fuel can burn you and others and cause property damage.

- Always place fuel containers on the ground away from your vehicle before filling.
- Do not fill fuel containers inside a vehicle or on a truck or trailer bed because interior carpets or plastic truck bed liners may insulate the container and slow the loss of any static charge.
- When practical, remove gas-powered equipment from the truck or trailer and refuel the equipment with its wheels on the ground.
- If this is not possible, then refuel such equipment on a truck or trailer from a portable container, rather than from 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.

A WARNING

Fuel is harmful or fatal if swallowed. Long-term exposure to vapors has caused cancer in laboratory animals. Failure to use caution may cause serious injury or illness.

- Avoid prolonged breathing of vapors.
- Keep face away from nozzle and gas tank/container opening.
- Keep away from eyes and skin.
- · Never siphon by mouth.

A CAUTION

Fuel tank vent is located inside the roll bar tube. Removing or modifying the roll bar could result in fuel leakage and violate emissions regulations.

- · Do not remove roll bar.
- Do not weld, drill, or modify roll bar in any way.

To help prevent fires:

- Keep engine and engine area free from accumulation of grass, leaves, excessive grease or oil, and other debris which can accumulate in these areas
- Clean up oil and fuel spills and remove fuel soaked debris.
- Allow the machine to cool before storing the machine in any enclosure. Do not store near flame or any enclosed area where open pilot lights or heat appliances are present.

Adding Fuel

Recommended Fuel

The engine runs on clean, fresh diesel fuel with a minimum cetane rating of 40. Purchase fuel in quantities that can be used within 30 days to ensure fuel freshness.

Use summer-grade diesel fuel (No. 2-D) at temperatures above -7°C (20°F) and winter-grade diesel fuel (No. 1-D or No. 1-D/2-D blend) below -7°C (20°F). Use of winter-grade diesel fuel at lower temperatures provides lower flash point and pour point characteristics, therefore easing startability and lessening chances of chemical separation of the fuel due to lower temperatures (wax appearance, which may plug filters).

Using summer-grade diesel fuel above -7°C (20°F) contributes toward longer life of the pump components.

Important: Do not use kerosene or gasoline instead of diesel fuel. Failure to observe this caution will damage the engine.

Biodiesel Ready

This machine can also use a biodiesel blended fuel of up to B20 (20% biodiesel, 80% petrodiesel). The petrodiesel portion should be ultra low sulfur.

Observe the following precautions:

- The biodiesel portion of the fuel meet specification ASTM D6751 or EN14214.
- The blended fuel composition should meet ASTM D975 or EN590.
- Painted surfaces may be damaged by biodiesel blends.
- Use B5 (biodiesel content of 5%) or lesser blend in cold weather.
- Monitor seals, hoses, gaskets in contact with fuel as they may degrade over time.

- Fuel filter plugging may be expected for a time after converting to biodiesel blends.
- Contact your distributor for more information on biodiesel.

Filling the Fuel Tank

- 1. Park the machine on a level surface.
- 2. Engage the parking brake.
- 3. Shut off the engine and remove the key.
- Clean around the fuel-tank cap.
- Fill the fuel tank to the bottom of the filler neck (Figure 7).

Note: Do not fill the fuel tank completely full. The empty space in the tank allows the fuel to expand.

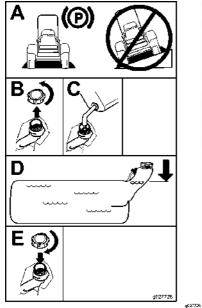


Figure 7

Performing Daily Maintenance

Before starting the machine each day, perform the Each Use/Daily procedures listed in Maintenance (page 37).

Breaking in a New Machine

New engines take time to develop full power. Mower decks and drive systems have higher friction when new, placing additional load on the engine. Allow 40 to 50 hours of break-in time for new machines to develop full power and best performance.

Using the Rollover Protection System (ROPS)

A WARNING

To avoid injury or death from rollover, keep the roll bar in the fully raised, locked position and use the seat belt.

Ensure that the seat is secured to the machine.

A WARNING

There is no rollover protection when the roll bar is in the down position.

- Lower the roll bar only when absolutely necessary.
- Do not wear the seat belt when the roll bar is in the down position.
- · Drive slowly and carefully.
- Raise the roll bar as soon as clearance permits.
- Check carefully for overhead clearances (i.e., branches, doorways, electrical wires) before driving under any objects and do not contact them.

Lowering the Roll Bar

Important: Lower the roll bar only when absolutely necessary.

- 1. To lower the roll bar, apply forward pressure to the upper part of the roll bar.
- Pull both knobs out and rotate them 90 degrees so they are not engaged (Figure 8).
- Lower the roll bar to the down position (Figure 8).

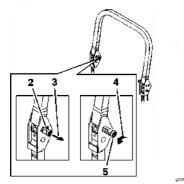


Figure 8

Rotate the knob out 90°

Knob in the unlatched

position

position

to hold it in the unlatched

- Upper part of the roll bar
- Knob in the latched position
- 3 Pull the knoh to unlatch

Using the Safety-Interlock System

A WARNING

If the safety-interlock switches are disconnected or damaged, the machine could operate unexpectedly, causing personal injury.

- · Do not tamper with the interlock switches.
- Check the operation of the interlock switches daily and replace any damaged switches before operating the machine.

Understanding the Safety-Interlock System

The safety-interlock system is designed to prevent the engine from starting unless:

- · The parking brake is engaged.
- · The blade-control switch (PTO) is disengaged.
- The motion-control levers are in the NEUTRAL-LOCK position.

The safety-interlock system also is designed to shut off the engine when the motion-control levers are moved from the NEUTRAL-LOCK position with the parking brake engaged or if you rise from the seat when the PTO is engaged.

The Horizon Display Monitor has indicators to notify the user when the interlock component is in the correct position. When the component is in the correct position, an indicator displays on the screen.



Figure 10

Indicators display when the interlock components are in the correct position

Testing the Safety-Interlock System

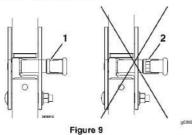
Service Interval: Before each use or daily

Test the safety-interlock system before you use the machine each time. If the safety system does not

Raising the Roll Bar

Important: Always use the seat belt with the roll bar in the raised position.

- Raise the roll bar to the operating position and rotate the knobs until they move partially into the grooves (Figure 9).
- Raise the roll bar to the full upright position while pushing on the upper roll bar so that the pins snap into position when the holes align with the pins (Figure 9).
- Push on the roll bar and ensure that both pins are engaged (Figure 9).



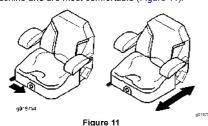
1. Engaged

Partially engaged—do not operate the machine with the ROPS in this position. operate as described below, have an Authorized Service Dealer repair the safety system immediately.

- Sit on the seat, engage the parking brake, and move the blade-control switch (PTO) to the ON position. Try starting the engine; the engine should not start.
- Sit on the seat, engage the parking brake, and move the blade-control switch (PTO) to the OFF position. Move either motion-control lever out of the NEUTRAL-LOCK position. Try starting the engine; the engine should not start. Repeat for the other control lever.
- Sit on the seat, engage the parking brake, move the blade-control switch (PTO) to the OFF position, and move the motion-control levers to the NEUTRAL-LOCK position. Now start the engine. While the engine is running, disengage the parking brake, engage the blade-control switch (PTO), and rise slightly from the seat; the engine should shut off.
- 4. Sit on the seat, engage the parking brake, move the blade-control switch (PTO) to the OFF position, and move the motion-control levers to the NEUTRAL-LOCK position. Now start the engine. While the engine is running, center either motion control and move (forward or reverse); the engine should shut off. Repeat for other motion control.
- Sit on the seat, disengage the parking brake, move the blade-control switch (PTO) to the OFF position, and move the motion-control levers to the NEUTRAL-LOCK position. Try starting the engine; the engine should not start.

Positioning the Seat

The seat can move forward and backward. Position the seat where you have the best control of the machine and are most comfortable (Figure 11).



Unlatching the Seat

To unlatch the seat, push the seat latch forward (Figure 12).



Figure 12

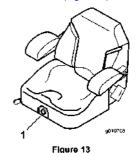
1. Seat latch

2. Seat

Changing the Seat Suspension

The seat is adjustable to provide a smooth and comfortable ride. Position the seat where you are most comfortable.

To adjust it, turn the knob in front either direction to provide the best comfort (Figure 13).



d019768

Seat-suspension knob

During Operation During Operation Safety

General Safety

The operator must use their full attention when operating the machine. **Do not** engage in any activity that causes distractions; otherwise, injury or property damage may occur.

A WARNING

Operating engine parts, especially the muffler, become extremely hot. Severe burns can occur on contact and debris, such as leaves, grass, brush, etc. can catch fire.

- Allow engine parts, especially the muffler, to cool before touching.
- Remove accumulated debris from muffler and engine area.

A WARNING

Engine exhaust contains carbon monoxide, which is an odorless deadly poison that can kill you.

Do not run engine indoors or in a small confined area where dangerous carbon monoxide fumes can collect.

- The owner/user can prevent and is responsible for accidents or injuries occurring to himself or herself, other people or property.
- This mower was designed for one operator only.
 Do not carry passengers and keep all others away from machine during operation.
- Do not operate the machine under the influence of alcohol or drugs.
- · Operate only in daylight or good artificial light.
- Lightning can cause severe injury or death. If lightning is seen or thunder is heard in the area, do not operate the machine; seek shelter.
- Use extra care while operating with accessories or attachments, such as grass collection systems.
 These can change the stability of the machine and cause a loss of control. Follow directions for counter weights if required.
- Keep away from holes, ruts, bumps, rocks, and other hidden hazards. Use care when approaching blind corners, shrubs, trees, tall grass or other objects that may hide obstacles or obscure vision. Uneven terrain could overturn the machine or cause the operator to lose their balance or footing.

- Be sure all drives are in neutral and parking brake is engaged before starting engine. Use seat belts with the roll bar in the raised and locked position.
- Start the engine carefully according to instructions with feet well away from the blades.
- Never operate the mower with damaged guards, shields, or covers. Always have safety shields, guards, switches and other devices in place and in proper working condition.
- Keep clear of the discharge opening at all times. Never mow with the discharge door raised, removed or altered unless there is a grass collection system or mulch kit in place and working properly.
- Keep hands and feet away from moving parts. If possible, do not make adjustments with the engine running.

A WARNING

Hands, feet, hair, clothing, or accessories can become entangled in rotating parts. Contact with the rotating parts can cause traumatic amputation or severe lacerations.

- Do not operate the machine without guards, shields, and safety devices in place and working properly.
- Keep hands, feet, hair, jewelry, or clothing away from rotating parts.
- · Never raise the deck with blades running.
- Be aware of the mower discharge path and direct discharge away from others. Avoid discharging material against a wall or obstruction as the material may ricochet back toward the operator. Stop the blades, slow down, and use caution when crossing surfaces other than grass and when transporting the mower to and from the area to be mowed.
- Be alert, slow down and use caution when making turns. Look behind and to the side before changing directions. Do not mow in reverse unless absolutely necessary.
- Do not change the engine governor setting or overspeed the engine.
- Park the machine on level ground. Shut off the engine and wait for all moving parts to stop.
 - Before checking, cleaning or working on the mower.
 - After striking a foreign object or abnormal vibration occurs (inspect the mower for damage and make repairs before restarting and operating the mower).
 - Before clearing blockages.

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- Whenever you leave the mower. Do not leave a running machine unattended.
- · Stop engine, wait for all moving parts to stop:
 - Before refueling.
 - Before dumping the grass catcher.
 - Before making height adjustments.
- Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.
 - Keep children out of the mowing area and under the watchful care of another responsible adult, not the operator.
 - Be alert and turn the machine off if children enter the area.
 - Before and while backing or changing direction, look behind, down, and side-to-side for small children
 - Never allow children to operate the machine.
 - Do not carry children, even with the blades shut off. Children could fall off and be seriously injured or interfere with the safe operation of the machine. Children that have been given rides in the past could suddenly appear in the working area for another ride and be run over or backed over by the machine.

Slope Safety

- Slopes are a major factor related to loss of control and rollover accidents, which can result in severe injury or death. The operator is responsible for safe slope operation. Operating the machine on any slope requires extra caution. Before using the machine on a slope, the operator must:
 - Review and understand the slope instructions in the manual and on the machine.
 - Use an angle indicator to determine the approximate slope angle of the area.
 - Never operate on slopes greater than 15 degrees.
 - Evaluate the site conditions of the day to determine if the slope is safe for machine operation. Use common sense and good judgment when performing this evaluation. Changes in the terrain, such as moisture, can quickly affect the operation of the machine on a slope.
- Identify hazards at the base of the slope. Do not operate the machine near drop offs, ditches, embankments, water or other hazards. The machine could suddenly roll over if a wheel goes over the edge or the edge collapses. Keep a safe

distance (twice the width of the machine) between the machine and any hazard. Use a walk behind machine or a hand trimmer to mow the grass in these areas.

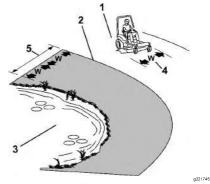


Figure 14

- Safe Zone-Use the mower here on slopes less than 15 degrees
- Danger Zone-Use a walk-behind mower and/or hand trimmer on slopes greater than 15 degrees
- Wate
- 4. W=width of the machine
- Keep a safe distance (twice the width of the machine) between the machine and any hazard.
- Avoid starting, stopping or turning the machine on slopes. Avoid making sudden changes in speed or direction; turn slowly and gradually.
- Do not operate a machine under any conditions where traction, steering or stability is in question.
 Be aware that operating the machine on wet grass, across slopes or downhill may cause the machine to lose traction. Loss of traction to the drive wheels may result in sliding and a loss of braking and steering. The machine can slide even if the drive wheels are stopped.
- Remove or mark obstacles such as ditches, holes, ruts, bumps, rocks or other hidden hazards. Tall grass can hide obstacles. Uneven terrain could overturn the machine.
- Use extra care while operating with accessories or attachments, such as grass collection systems.
 These can change the stability of the machine and cause a loss of control. Follow directions for counter weights.
- If possible, keep the deck lowered to the ground while operating on slopes. Raising the deck while operating on slopes can cause the machine to become unstable.

Rollover Protection System (ROPS) Safety

A Rollover Protection System (roll bar) is installed on the machine.

A WARNING

There is no rollover protection when the roll bar is down. Wheels dropping over edges, ditches, steep banks, or water can cause rollovers, which may result in serious injury, death or drowning.

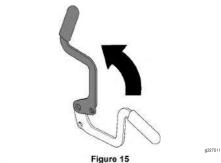
- Do not remove the ROPS.
- Keep the roll bar in the raised and locked position and use seat belt.
- Lower the roll bar only when absolutely necessary.
- Do not wear seat belt when the roll bar is down.
- Drive slowly and carefully.
- Raise the roll bar as soon as clearance permits.
- Be certain that the seat belt can be released quickly in the event of an emergency.
- Check carefully for overhead clearances (i.e. branches, doorways, and electrical wires) before driving under any objects and do not contact them.
- In the event of a rollover, take the unit to an Authorized Service Dealer to have the ROPS inspected.
- Replace a damaged ROPS. Do not repair or revise.
- Any accessories, alterations, or attachments added to the ROPS must be approved by Toro.

Operating the Parking Brake

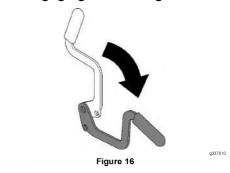
Always engage the parking brake when you stop the machine or leave it unattended.

Engaging the Parking Brake

Park the machine on a level surface.



Disengaging the Parking Brake



Operating the Mower Blade-Control Switch (PTO)

The blade-control switch (PTO) starts and stops the mower blades and any powered attachments.

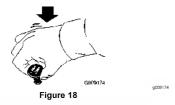
Engaging the Blade-Control Switch (PTO)

Note: Engaging the blade-control switch (PTO) with the throttle position at half or less causes excessive wear to the drive belts.



Figure 17

Disengaging the Blade-Control Switch (PTO)



Starting the Engine

Important: Do not engage the starter for more than 5 seconds at a time. If the engine fails to start, wait 15 seconds between attempts. Failure to follow these instructions can burn out the starter motor.

Note: You may need multiple attempts to start the engine the first time after adding fuel to an empty fuel system.

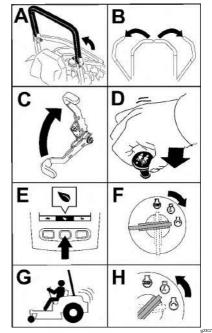


Figure 19

Shutting Off the Engine

A CAUTION

Children or bystanders may be injured if they move or attempt to operate the machine while it is unattended.

Always remove the key and engage the parking brake when leaving the machine unattended.

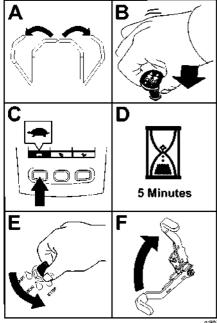
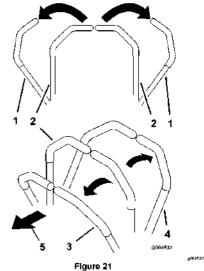


Figure 20

Using the Motion-Control Levers



- 1. Motion-control lever-Neutral-Lock position
- 4. Backward
- 2. Center, unlocked position 5. Front of machine
- 3. Forward

Driving the Machine

The drive wheels turn independently, powered by hydraulic motors on each axle. You can turn 1 side in reverse while you turn the other forward, causing the machine to spin rather than turn. This greatly improves the machine maneuverability but may require some time for you to adapt to how it moves.

The throttle control regulates the engine speed as measured in rpm (revolutions per minute). Place the throttle control in the FAST position for best performance. Always operate in the full throttle position when mowing.

A WARNING

The machine can spin very rapidly. You may lose control of the machine and cause personal injury or damage to the machine.

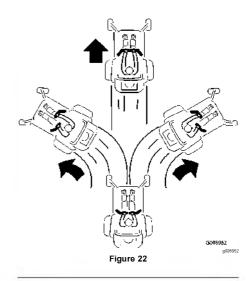
- Use caution when making turns.
- Slow the machine down before making sharp turns.

Driving Forward

Note: The engine shuts off when you move the traction-control with the parking brake engaged.

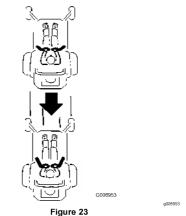
To stop the machine, pull the motion-control levers to the NEUTRAL position.

- Disengage the parking brake; refer to Disengaging the Parking Brake (page 24).
- 2. Move the levers to the center, unlocked position.
- To go forward, slowly push the motion-control levers forward (Figure 22).



Driving Backward

- 1. Move the levers to the center, unlocked position.
- To go backward, slowly pull the motion-control levers rearward (Figure 23).



Using the Side Discharge Machines with Side Discharge Only

The mower has a hinged grass deflector that disperses clippings to the side and down toward the turf.

A DANGER

Without a grass deflector, discharge cover, or a complete grass-catcher assembly mounted in place, you and others are exposed to blade contact and thrown debris. Contact with rotating mower blade(s) and thrown debris will cause injury or death.

- Never remove the grass deflector from the mower deck because the grass deflector routes material down toward the turf. If the grass deflector is ever damaged, replace it immediately.
- Never put your hands or feet under the mower deck.
- Never try to clear the discharge area or mower blades unless you move the blade-control switch (PTO) to the OFF position, rotate the key switch to the OFF position, and remove the key from the key switch.
- Make sure that the grass deflector is in the down position.

Adjusting the Height of Cut

Adjust the height of cut from 25 to 140 mm (1 to 5-1/2 inches) in 6 mm (1/4 inch) increments by moving the clevis pin into different hole locations.

- With the engine running, push the deck-lift switch rearward until the mower deck is fully raised, and release the switch immediately.
- Rotate the height-of-cut pin until the roll pin in it lines up with the slots in the holes in the height-of-cut bracket and remove it (Figure 24).
- Insert the height-of-cut pin into the hole corresponding to the desired cutting height (Figure 24).
 - Refer to the decal on the side of the deck-lift plate for the heights of cut (Figure 24).
- Using the deck-lift switch, move the deck height out of the transport position (or 5-1/2 inches (140 mm) cutting height) and down to the selected height.

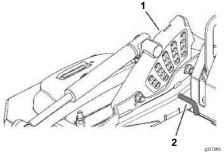


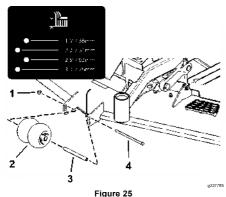
Figure 24

- 1. Height-of-cut bracket
- 2. Height-of-cut pin

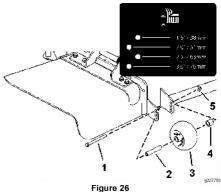
Adjusting the Anti-Scalp Rollers

For maximum deck flotation, install the rollers 1 hole position lower. Rollers should maintain a 6 mm (1/4 inch) clearance to the ground. Do not adjust the rollers to support the deck.

- 1. Park the machine on a level surface.
- Disengage the blade-control switch (PTO), move the motion-control levers to the NEUTRAL-LOCK position, and engage the parking brake.
- Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 4. Adjust the anti-scalp rollers as shown in Figure 25, Figure 26, Figure 27, and Figure 28.

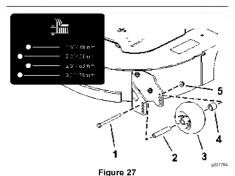


- 1. Flange nut
- Bushing
- 2. Anti-scalp roller
- 4. Bolt



Side Discharge Machines

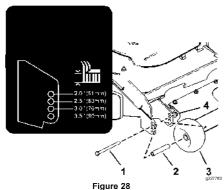
- 1. Bolt
- Spacer
- Bushing
 Anti-scalp roller
- 5. Flange nut



Side Discharge Machines

1. Bolt

- 4. Spacer
- 2. Bushing
- 5. Flange nut
- 3. Anti-scalp roller



- Rear Discharge Machines
- Bolt
 Bushing
- Anti-scalp roller
- 4. Flange nut
- For side discharge machines, torque the flange nut to 68 to 75 N·m (50 to 55 ft-lb).
- For rear discharge machines, torque the flange nut to 41 to 47 N·m (30 to 35 ft-lb).

Adjusting the Skids For Models with Rear Discharge

Mount the skids in the lower position when operating at heights of cut greater than 51 mm (2 inches) and in a higher position when operating at heights of cut lower than 51 mm (2 inches).

Adjust the skids as shown in Figure 29.

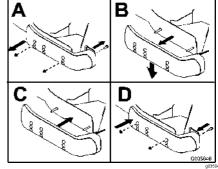


Figure 29

Adjusting the Flow Baffle Knob

For Machines with Side Discharge

This procedure applies only to machines with the flow baffle knob. Certain models have nuts and bolts instead of the flow baffle knob that you can adjust the same way.

You can adjust the mower discharge flow for different types of mowing conditions. Position the knob and baffle to give the best quality of cut.

- Park the machine on a level surface, disengage the blade-control switch, and engage the parking brake
- Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- Loosen the knob.
- 4. Slide the knob to the desired position.
- Tighten the knob.

Positioning the Flow Baffle For Machines with Side Discharge

The following figures are recommendations only. Adjustments vary by grass type, moisture content, and the height of the grass.

Note: If the engine power draws down and the mower ground speed is the same, open the baffle.

Position A

This is the fully-rear position. The suggested use for this position is as follows:

- · Short, light grass mowing conditions
- Dry conditions
- · Smaller grass clippings
- Propels grass clippings farther away from the mower

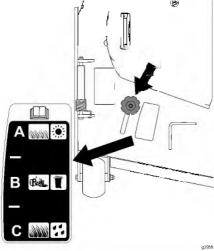
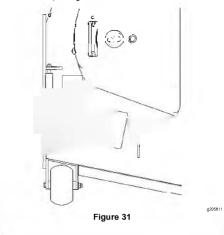


Figure 30

Position B

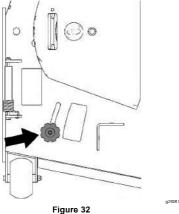
Use this position when bagging. Always align it with the blower opening.



Position C

This is the fully-forward position. The suggested use for this position is as follows:

- · Tall, dense grass mowing conditions
- Wet conditions
- · Lowers the engine-power consumption
- Allows increased ground speed in heavy conditions



Operating with the Overheat Sensor

The PTO disengages, an alarm sounds, and a bar graph displays the engine temperature when it reaches an overheat condition. The PTO does not engage until the engine has cooled and you manually shut off the PTO and engage it.

Note: If the engine-coolant level is below the indicator line on the overflow bottle when the engine is cold, the coolant temperature gauge may not register correctly during operation and/or the audible alarm may not sound if the engine overheats.

Operating Tips

Using the Fast Throttle Setting

For best mowing and maximum air circulation, operate the engine at the FAST position. Air is required to thoroughly cut grass clippings, so do not set the height-of-cut so low as to totally surround the mower deck in uncut grass. Always try to have 1 side of the mower deck free from uncut grass, which allows air to be drawn into the mower deck.

Cutting a Lawn for the First Time

Cut grass slightly longer than normal to ensure that the cutting height of the mower deck does not scalp any uneven ground. However, the cutting height used in the past is generally the best one to use. When cutting grass longer than 15 cm (6 inches) tall, you may want to cut the lawn twice to ensure an acceptable quality of cut.

Cutting a Third of the Grass Blade

It is best to cut only about a third of the grass blade. Cutting more than that is not recommended unless grass is sparse, or it is late fall when grass grows more slowly.

Alternating the Mowing Direction

Alternate the mowing direction to keep the grass standing straight. This also helps disperse clippings, which enhances decomposition and fertilization.

Mowing at Correct Intervals

Grass grows at different rates at different times of the year. To maintain the same cutting height, mow more often in early spring. As the grass growth rate slows in mid summer, mow less frequently. If you cannot mow for an extended period, first mow at a high cutting height, then mow again 2 days later at a lower height setting.

Using a Slower Cutting Speed

To improve cut quality, use a slower ground speed in certain conditions.

Avoiding Cutting Too Low

When mowing uneven turf, raise the cutting height to avoid scalping the turf.

Stopping the Machine

If you must stop the forward motion of the machine while mowing, a clump of grass clippings may

drop onto your lawn. To avoid this, move onto a previously cut area with the blades engaged or you can disengage the mower deck while moving forward.

Keeping the Underside of the Mower Deck Clean

Clean clippings and dirt from the underside of the mower deck after each use. If grass and dirt build up inside the mower deck, cutting quality will eventually become unsatisfactory.

Maintaining the Blade(s)

Maintain a sharp blade throughout the cutting season because a sharp blade cuts cleanly without tearing or shredding the grass blades. Tearing and shredding turns grass brown at the edges, which slows growth and increases the chance of disease. Check the mower blades after each use for sharpness, and for any wear or damage. File down any nicks and sharpen the blades as necessary. If a blade is damaged or worn, replace it immediately with a genuine Toro replacement blade.

After Operation After Operation Safety

General Safety

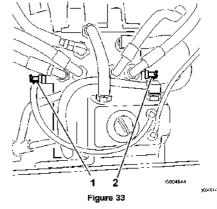
- Park machine on level ground, disengage drives, set parking brake, stop engine, and remove key. Wait for all movement to stop and allow the machine to cool before adjusting, cleaning, repairing, or storing. Never allow untrained personnel to service machine.
- Clean the machine as stated in the Maintenance section. Keep engine and engine area free from accumulation of grass, leaves, excessive grease or oil, and other debris which can accumulate in these areas. These materials can become combustible and may result in a fire.
- Frequently check for worn or deteriorating components that could create a hazard. Tighten loose hardware.

Using the Drive-Wheel Release Valves

Use the drive-wheel release valves to release the hydrostatic drive system, which allows you to push the machine without the running the engine.

Rotate each bypass valve counterclockwise 1 turn to release; rotate each bypass valve clockwise to reset the system (Figure 33).

Important: Do not overtighten. Do not tow the machine.



1. Right bypass valve

2. Left bypass valve

Transporting the Machine

Use a heavy-duty trailer or truck to transport the machine. Use a full-width ramp. Ensure that the trailer or truck has all the necessary brakes, lighting, and marking as required by law. Please carefully read all the safety instructions. Knowing this information could help you or bystanders avoid injury. Refer to your local ordinances for trailer and tie-down requirements.

A WARNING

Driving on the street or roadway without turn signals, lights, reflective markings, or a slow-moving-vehicle emblem is dangerous and can lead to accidents, causing personal injury.

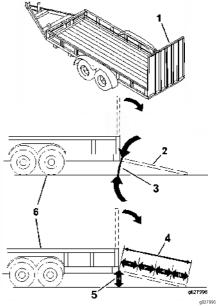
Do not drive the machine on a public street or roadway.

Selecting a Trailer

A WARNING

Loading a machine onto a trailer or truck increases the possibility of tip-over and could cause serious injury or death (Figure 34).

- Use only a full-width ramp; do not use individual ramps for each side of the machine.
- Do not exceed a 15-degree angle between the ramp and the ground or between the ramp and the trailer or truck.
- Ensure that the length of the ramp is at least 4 times as long as the height of the trailer or truck bed to the ground. This ensures that the ramp angle does not exceed 15 degrees on flat ground.



- Figure 34
- Full-width ramp in stowed 4. position
- Side view of full-width ramp in loading position
- Not greater than
 15 degrees
- Ramp is at least 4 times as long as the height of the trailer or truck bed to the ground
- H=height of the trailer or truck bed to the ground
- 6. Trailer

Loading the Machine

A WARNING

Loading a machine onto a trailer or truck increases the possibility of tip-over and could cause serious injury or death.

- Use extreme caution when operating a machine on a ramp.
- Back the machine up the ramp and drive it forward down the ramp.
- Avoid sudden acceleration or deceleration while driving the machine on a ramp as this could cause a loss of control or a tip-over situation.

- If using a trailer, connect it to the towing vehicle and connect the safety chains.
- 2. If applicable, connect the trailer brakes and lights.
- Lower the ramp, ensuring that the angle between the ramp and the ground does not exceed 15 degrees (Figure 34).
- 4. Back the machine up the ramp (Figure 35).

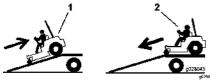


Figure 35

- Back the machine up the ramp
- Drive the machine forward down the ramp.
- Shut off the engine, remove the key, and engage the parking brake.
- Tie down the machine near the front caster wheels and the rear frame with straps, chains, cable, or ropes (Figure 36). Refer to local regulations for tie-down requirements.

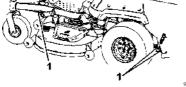


Figure 36

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1. Tie-down points

Unloading the Machine

- Lower the ramp, ensuring that the angle between the ramp and the ground does not exceed 15 degrees (Figure 34).
- 2. Drive the machine forward down the ramp (Figure 35).

Troubleshooting

| Problem | Possible Cause | Corrective Action |
|--|--|--|
| The starter does not crank. | The blade-control switch is engaged. The parking brake is disengaged. The motion-control levers are not in the NEUTRAL-LOCK position. You are not sitting in the operator's seat. | Disengage the blade-control switch. Engage the parking brake. Move the motion-control levers outward to the NEUTRAL-LOCK position. Sit on the operator's seat. |
| | 5. The battery is dead. 6. The electrical connections are corroded or loose. 7. A fuse is blown. 8. A relay or switch is damaged. | Charge the battery. Check the electrical connections for good contact. Replace the fuse. Contact an Authorized Service Dealer. |
| The engine does not start, starts hard, or falls to keep running. | The fuel tank is empty. The fuel-shutoff valve is closed. The oil level in the crankcase is low. The throttle is not in the correct position. There is dirt in fuel filter. There is dirt, water, or stale fuel is in the fuel system. The air cleaner is dirty. | Fill the fuel tank. Open the fuel-shutoff valve. Add oil to the crankcase. Be sure that the throttle control is midway between the SLOW and FAST positions. Replace the fuel filter. Contact an Authorized Service Dealer. Clean or replace the air-cleaner element. Check the seat switch indicator. Replace the seat if needed. Check the electrical connections for good contact. Clean the connector terminals thoroughly with electrical contact cleaner, apply dielectric grease, and connect. |
| | 10. The relay or switch is broken. | 10. Contact an Authorized Service Dealer. |
| The engine loses power. | The engine load is excessive. The air cleaner is dirty. The oil level in the crankcase is low. The cooling fins and the air passages above the engine are plugged. The vent hole in the fuel cap is plugged. There is dirt in the fuel filter. There is dirt, water, or stale fuel in the fuel system. | Reduce the ground speed. Clean the air-cleaner element. Add oil to the crankcase. Remove the obstruction from the cooling fins and the air passages. Clean or replace the fuel cap. Replace the fuel filter. Contact an Authorized Service Dealer. |
| The engine overheats. | The engine load is excessive. The oil level in the crankcase is low. The cooling fins and air passages under the engine-blower housing are plugged. The air cleaner is dirty. Dirt, water, or stale fuel is in the fuel system. | Reduce the ground speed. Add oil to the crankcase. Remove the obstruction from the cooling fins and air passages. Clean or replace the air-cleaner element. Contact an Authorized Service Dealer |
| The machine pulls to the left or right (with the motion-control levers fully forward). | The tracking needs adjustment The tire pressure in the drive tires is not correct. | Adjust the tracking. Adjust the tire pressure in the drive tires. |

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| Problem | Possible Cause | Corrective Action |
|----------------------------------|--|---|
| The machine does not drive. | The bypass valves are not closed tight. | Tighten the bypass valves. |
| | The pump belt is worn, loose, or broken. | Change the belt. |
| | 3. The pump belt is off a pulley. | Change the belt. |
| | 4. The idler spring is broken or missing. | Replace the spring. |
| | The hydraulic fluid level is low or too hot. | Add hydraulic fluid to the reservoirs or let it cool down. |
| The machine vibrates abnormally. | The cutting blade(s) is/are bent or unbalanced. | Install new cutting blade(s). |
| | The blade mounting bolt is loose. | Tighten the blade mounting bolt. |
| | The engine mounting bolts are loose. | Tighten the engine mounting bolts. |
| | The engine pulley, idler pulley, or blade pulley is loose. | Tighten the appropriate pulley. |
| | 5. The engine pulley is damaged. | Contact an Authorized Service Dealer. |
| | 6. The blade spindle is bent. | 6. Contact an Authorized Service Dealer. |
| | 7. The motor mount is loose or worn. | Contact an Authorized Service Dealer. |
| The cutting height is uneven. | The blade(s) is not sharp. | Sharpen the blade(s). |
| | A cutting blade(s) is/are bent. | Install a new cutting blade(s). |
| | The mower is not level. | Level the mower from side-to-side and front-to-rear. |
| | An anti-scalp roller (if applicable) is not set correctly. | Adjust the anti-scalp wheel height. |
| | The underside of the mower deck is dirty. | Clean the underside of the mower deck. |
| | The tire pressure is incorrect. | Adjust the tire pressure. |
| | 7. A blade spindle is bent. | 7. Contact an Authorized Service Dealer. |
| The blades do not rotate. | The mower deck belt is damaged, worn, loose, or broken. | Install a new deck belt. |
| | The mower deck belt is off the pulley. | Install the mower belt on the deck pulley and check the idler pulley, idler arm, and spring for correct position and function. |
| | The pump drive belt is worn, loose, or broken. | Check the belt tension or install a new belt. |
| | The idler spring is broken or missing. | Replace the spring. |

California Proposition 65 Warning Information

What is this warning?

You may see a product for sale that has a warning label like the following.



WARNING: Cancer and Reproductive Harm—www.p65Warnings.ca.gov.

What is Prop 65?

Prop 85 applies to any company operating in California, selling products in California, or manufacturing products that may be sold in or brought into California. It mandates that the Governor of California maintain and publish a list of chemicals known to cause cancer, birth defects, and/or other reproductive harm. The list, which is updated annually, includes hundreds of chemicals found in many everyday items. The purpose of Prop 85 is to inform the public about exposure to these chemicals.

Prop 65 does not ban the sale of products containing these chemicals but instead requires warnings on any product, product packaging, or literature with the product. Moreover, a Prop 65 warning does not mean that a product is in violation of any product safety standards or requirements. In fact, the California government has clarified that a Prop 65 warning "is not the same as a regulatory decision that a product is "safe" or 'unsafe." "Many of these chemicals have been used in everyday products for years without documented harm. For more information, go to https://oag.ca.gov/prop65/faqs-view-all.

A Prop 65 warning means that a company has either (1) evaluated the exposure and has concluded that it exceeds the "no significant risk level"; or (2) has chosen to provide a warning based on its understanding about the presence of a listed chemical without attempting to evaluate the exposure.

Does this law apply everywhere?

Prop 65 warnings are required under California law only. These warnings are seen throughout California in a wide range of settings, including but not limited to restaurants, grocery stores, hotels, schools, and hospitals, and on a wide variety of products. Additionally, some online and mail order retailers provide Prop 65 warnings on their websites or in catalogs.

How do the California warnings compare to federal limits?

Prop 65 standards are often more stringent than federal and international standards. There are various substances that require a Prop 65 warning at levels that are far lower than federal action limits. For example, the Prop 65 standard for warnings for lead is 0.5 µg/day, which is well below the federal and international standards.

Why don't all similar products carry the warning?

- · Products sold in California require Prop 65 labelling while similar products sold elsewhere do not
- A company involved in a Prop 65 lawsuit reaching a settlement may be required to use Prop 65 warnings for its products, but other companies
 making similar products may have no such requirement.
- The enforcement of Prop 65 is inconsistent
- Companies may elect not to provide warnings because they conclude that they are not required to do so under Prop 65; a lack of warnings for a
 product does not mean that the product is free of listed chemicals at similar levels.

Why does Toro include this warning?

Toro has chosen to provide consumers with as much information as possible so that they can make informed decisions about the products they buy and use. Toro provides warnings in certain cases based on its knowledge of the presence of one or more listed chemicals without evaluating the level of exposure, as not all the listed chemicals provide exposure limit requirements. While the exposure from Toro products may be negligible or well within the no significant risk' range, out of an abundance of caution, Toro has elected to provide the Prop 65 warnings. Moreover, if Toro does not provide these warnings, it could be sued by the State of California or by private parties seeking to enforce Prop 65 and subject to substantial penalties.

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