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.

Because in some areas there are local, state, or federal regulations requiring that a spark arrester be used on the engine of this machine, a spark arrester is available as an option. If you require a spark arrester, contact your Authorized Service Dealer. Genuine Toro spark arresters are approved by the USDA Forestry Service.

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.

⚠ WARNING

CALIFORNIA

Proposition 65

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or 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.

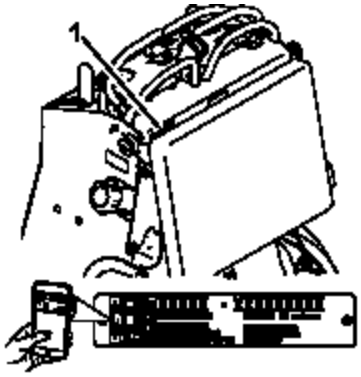
Introduction

Intended Use

Getting Help

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. These numbers are located on the serial plate on your product (1). Write the numbers in the space provided.



G241847

IMPORTANT

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

Model Number:		**Serial Number:**	

Manual Conventions

This manual identifies potential hazards and has safety messages identified by the safety-alert symbol, which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.


g000502

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

- Do not operate the machine without all guards and other safety protective devices in place and functioning properly on the machine.
- Park the machine on a level surface, lower the hopper, shut off the engine, and remove the key (if applicable) before leaving the operating position.
- Keep your hands and feet away from moving parts. If possible, do not make adjustments with the engine running.

Improperly using or maintaining the machine can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety-alert symbol ⚠, which means **Caution**, **Warning**, or **Danger**—personal safety instruction. Failure to comply with the instruction may result in personal injury or death.

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.

Decal Part: 115-4212



decal115-4212

1. Hydraulic-fluid level
2. Read the *Operator's Manual*.
3. Warning—stay away from hot surfaces.

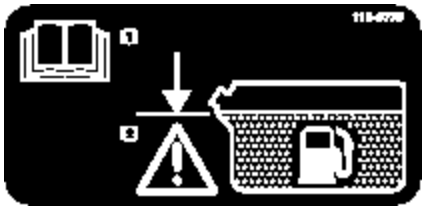
Decal Part: 115-4858



decal115-4858

1. Force from above can cause crushing of fingers, hands, toes, or feet—install the cylinder lock.

Decal Part: 116-8775

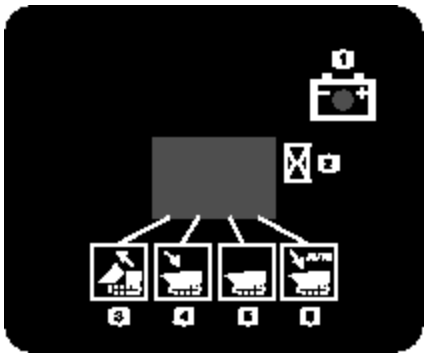


decal116-8775

1. Read the *Operator's Manual*.
2. Warning—fill to the bottom of the filler neck; do not overfill the tank.

Decal Part: 125-4967

Decal Part: 132-8961



decal132-8961

1. Battery charging condition
2. Hour meter
3. Hopper is raising.
4. Hopper is lowering.
5. Hopper is down.
6. Hopper is lowering automatically.

Decal Part: 132-9051



decal132-9051

1. Tie-down point

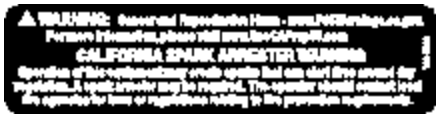
Decal Part: 132-9052



decal132-9052

1. Power
2. Auxiliary
3. Logic

Decal Part: 133-8062



decal133-8062

Decal Part: 137-0575



decal137-0575

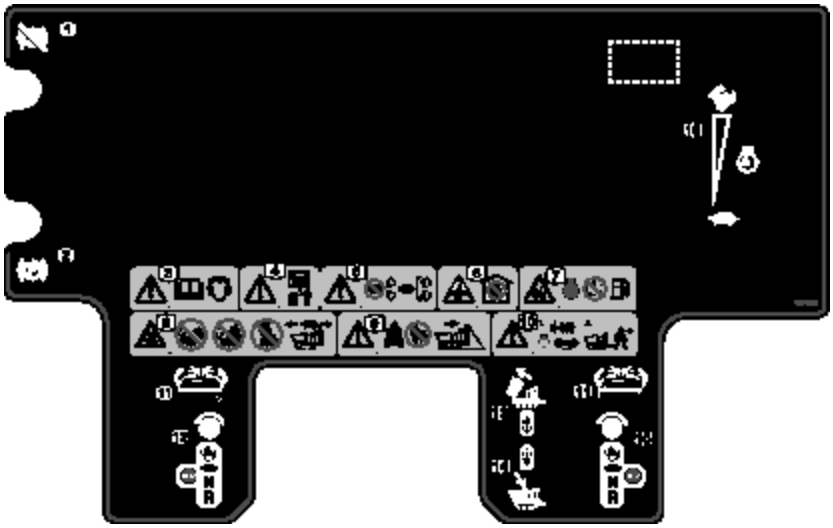
1. Read the *Operator's Manual*.
2. Transmission fluid
3. Cold fill line

Decal Part: 137-8899

decal137-8899

1. Read the *Operator's Manual*.

Decal Part: 139-7219



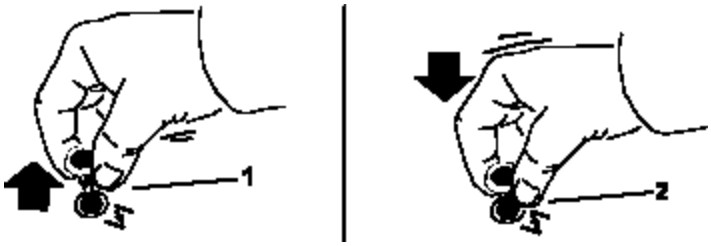
decal139-7219

1. Parking brake—disengage
2. Parking brake—engate
3. Warning—read the *Operator's Manual*; wear hearing protection.
4. Warning—all operators should read the *Operator's Manual* and be trained before operating the machine.
5. Warning—stay away from moving parts; keep all guards and shields in place.
6. Asphyxiation hazard, poisonous fumes, or toxic gases —do not run the engine in an enclosed space.
7. Explosion hazard—shut off the engine; do not expose to fire or open flames while fueling.
8. Tipping hazard—do not drive forward with the hopper raised; do not drive down slopes with the hopper raised; do not drive across slopes with the hopper raised; drive slowly with the hopper lowered.
9. Warning—keep bystanders away; look behind and down when moving in reverse.
10. Warning—engage the parking brake, shut off the engine, and remove the key before leaving the operators position.
11. Move the handles in to operate.
12. Left traction controls
13. Raise the hopper.
14. Lower the hopper.
15. Right traction controls
16. Engine-speed control

Product Overview

Controls

Choke Control

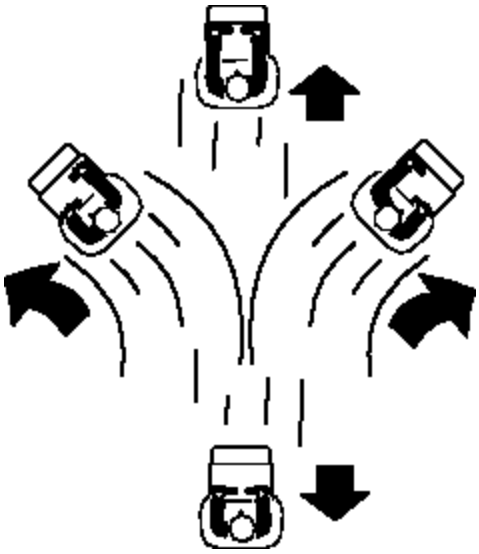


G376191

(1) ENGAGE the choke before starting a cold engine.

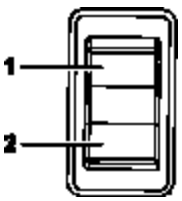
(2) DISENGAGE the choke when the engine is warm.

Drive Controls



G375673

Dump Controls



G375674

(1) Dump hopper

(2) Lower hopper

Key Switch

G375755

Parking Brake



g009465

1. Engage
2. Disengage

Throttle Control



g357324

Specifications

Note: Specifications and design are subject to change without notice.

Width	90.2 cm (35.5 inches)
Length	268 cm (105.5 inches)
Height	121.2 cm (47.7 inches)
Weight	734 kg (1619 lb)
Hopper capacity	0.45 m^3 (16 cu.ft.)
Maximum load	1134 kg (2500 lb)
Discharge height	38.1 cm (15 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.

Operation

Before Operation

Before Operation Safety

General Safety

- Never allow children or untrained people to operate the machine. Local regulations may restrict the age of the operator. The owner is responsible for training all operators and mechanics.
- Become familiar with the safe operation of the equipment, operator controls, and safety signs.
- Inspect the area where you will use the machine and remove all objects that could interfere with the operation of the machine.
- Know and mark the locations of all utility lines.
- Check that the operator's presence controls, safety switches, and shields are attached and functioning properly. Do not operate the machine unless they are functioning properly.
- Locate the pinch point areas marked on the machine and keep your hands and feet away from these areas.
- Do not carry passengers on the machine.
- Keep bystanders, especially children, out of the operating area. Ensure that the area is clear of bystanders before operating the machine. Shut off the machine if a bystander enters the area.
- Park the machine on a level surface, engage the parking brake, and shut off the engine. Wait for all movement to stop and allow the machine to cool before adjusting, servicing, cleaning, or storing the machine.

Fuel Safety

Use extreme care in handling fuel. It is flammable and its vapors are explosive.

- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only an approved container.

containers on the ground, away from your vehicle before filling.

- Remove the equipment from the truck or trailer and refuel it while it is on the ground. If this is not possible, then refuel from a portable container rather than a fuel-dispenser nozzle.
- Keep the fuel-dispenser 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.
- Do not operate the machine without the entire exhaust system in place and working properly.
- Fuel is harmful or fatal if swallowed. Long-term exposure to vapors can cause serious injury and illness.
    - Avoid prolonged breathing of vapors.
    - Keep your face away from the nozzle and fuel tank or conditioner opening.
    - Keep fuel away from your eyes and skin.

Fuel

Fuel Specifications

Capacity	40.1 L (10.6 US gallons)
Type	Unleaded gasoline
Minimum octane rating	87 (US) or 91 (research octane; outside the US)
Ethanol	No more than 10% by volume
Methanol	None
MTBE (methyl tertiary butyl ether)	Less than 15% by volume
Oil	Do not add to the fuel

Use only clean, fresh (no more than 30 days old), fuel from a reputable source.

IMPORTANT

To reduce starting problems, add fuel stabilizer/conditioner to fresh fuel as directed by the fuel-stabilizer/conditioner manufacturer.

space in the tank allows the fuel to expand.

4. Install the cap.



g038312

Performing Daily Maintenance

Before starting the machine each day, perform the Each Use/Daily procedures listed in the Maintenance Schedule.

During Operation

During Operation Safety

General Safety

- The owner/user can prevent and is responsible for accidents that may cause personal injury or property damage.
- Do not exceed the rated operating capacity, as the machine may become unstable, which may result in loss of control.
- Wear appropriate clothing including eye protection, long pants, substantial slip-resistant footwear, and hearing protection. Tie back long hair and do not wear loose clothing or loose jewelry.
- Use your full attention while operating the machine. Do not engage in any activity that causes distractions; otherwise, injury or property damage may occur.
- Do not operate the machine while ill, tired, or under the influence of alcohol or drugs.
- Operate the machine only in good light, keeping away from holes and hidden hazards.
- Ensure that all drives are in the NEUTRAL position before starting the engine. Start the engine only from the operating position.
- Keep your hands and feet away from moving parts. If possible, do not make adjustments with the engine running.
- Never jerk the controls; use a steady motion.
- Use care when approaching blind corners, shrubs, trees, or other objects that may obscure your vision.

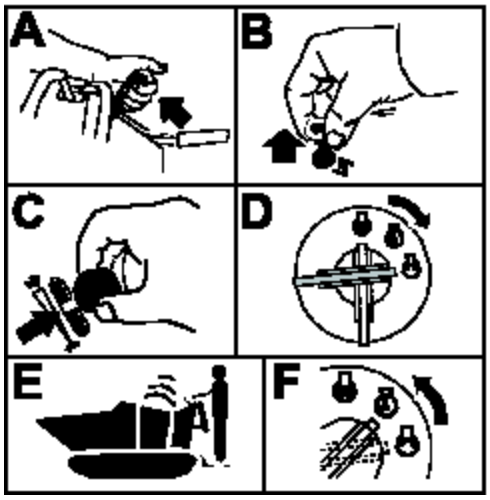
- Be aware of obstacles in close proximity to you. Failure to maintain adequate distance from trees, walls, and other barriers may result in injury as the machine backs up during operation if you are not attentive to the surroundings.
- Check for overhead clearance (i.e., electrical wires, branches, and doorways) before driving under any objects and do not contact them.
- Do not overload the hopper and always keep the load level when operating the machine.
- Keep the hopper lowered and straight (if applicable) when moving, storing, loading, transporting, and cleaning the machine.
- Do not modify the machine.
- Use care and slow down when you are operating the machine on a slippery surface.
- Always look down and behind you before moving the machine in reverse.
- If you feel uneasy operating the machine because the terrain is rough, slippery, or unfamiliar, do not do it.
- Distribute loads evenly to improve the stability and control of the machine.
- Liquid loads shift, which can cause the machine to tip over.

Slope Safety

- Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. You are responsible for safe slope operation. Operating the machine on any slope requires extra caution. Before using the machine on a slope, do the following:
  - Review and understand the slope instructions in the manual and on the machine.
  - Evaluate the site conditions of the day to determine if the slope is safe for machine operation. Always 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.
- Do not raise the hopper on a slope. Raising the hopper on a slope affects the stability of the machine. Keep the hopper in the lowered and straight position when on slopes.
- When operating on a slope, fold the platform up and walk behind the machine until it is on flat ground.
- **Operate up and down slopes with the heavy end of the machine uphill.** Weight distribution changes with a full hopper. A full hopper makes the front of the machine the heavy end, so walk

- Keep all movements on slopes slow and gradual. Do not make sudden changes in speed or direction.
- Do not operate the 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 wheels or tracks may result in sliding and a loss of braking and steering. The machine can slide even if the wheels or tracks 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.
- If you lose control of the machine, step off and away from the direction of travel of the machine.

Starting the Engine



G375752

1. Engage the parking brake (A).
2. Engage the choke (B).

   Note: A warm or hot engine may not require choking. You may need to repeat the starting cycle when you start the engine for the first time after you have filled a completely empty fuel system with fuel.

   Note: Let the machine stay at low idle for 3 minutes when starting the machine in a temperature below 30°F.
3. Move the throttle between the FAST and SLOW positions (C).
4. Turn the key switch to the START position (D).
5. When the engine starts (E), disengage the choke (F).

IMPORTANT

Do not engage the starter for more than 5 seconds at a time. If the engine fails to start, allow a 15-second cool-down period between attempts. Failure to follow these instructions can burn out the starter.

Shutting Off the Engine

3. Turn the key switch to the OFF position and remove the key.

Operator Platform

You can use the machine with the platform in the up or down position.

⚠ WARNING ⚠

The operator platform is heavy and may cause injury when you raise or lower it. Carefully lower or raise the operator platform, as suddenly dropping it could injure you.

- **Do not put your hands or fingers in the platform-pivot area when lowering or raising the operator platform.**
- **Make sure that the platform is supported when you pull the latch pin out.**
- **Make sure that the latch secures the platform when folding it up. Push it tight against the cushion for the latch pin to lock into place.**
- **Keep bystanders away from the machine when raising or lowering the platform.**

Operate the machine with the platform up for the following conditions:

- Using the machine near drop-offs
- Using the machine in small areas where the machine is too large
- Areas with low-hanging branches or obstacles
- When loading or unloading the machine from a trailer for transport
- Driving up slopes

Operate the machine with the platform down for the following conditions:

- Using the machine in most areas
- Driving across slopes
- Driving down slopes

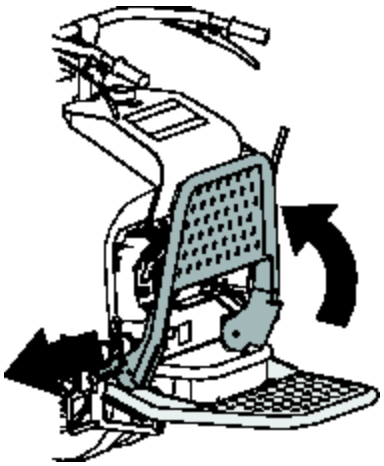
Lowering the Platform

1. Push the platform against the cushion to release pressure on the latch pin.


G384422

Raising the Platform

1. Pull out the latch pin and raise the platform.
2. Release the latch pin to lock the platform in place.

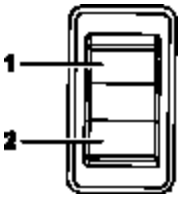

G384423

Operating the Hopper

Hopper capacity: 1134 kg (2,500 lb)

Do not exceed the load capacity of the machine. This machine normally operates on uneven, unpaved, bumpy, and/or inclined surfaces—adjust the load accordingly.

1. Position the machine where you intend to dump the load.
2. Dump the hopper by pushing the top of the dump switch (1).
3. Lower the hopper by pushing the bottom of the dump switch (2).



G375674

Note: If you hold the bottom of the switch for 1 second, the hopper fully lowers automatically.

After Operation

After Operation Safety

General Safety

Removing Debris from the Machine

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine and remove the key. Allow the engine to cool.
3. Clean the inside of the hopper using a hose.

IMPORTANT

Do not use a hammer to remove material from the inside of the hopper; this may cause damage to the machine.

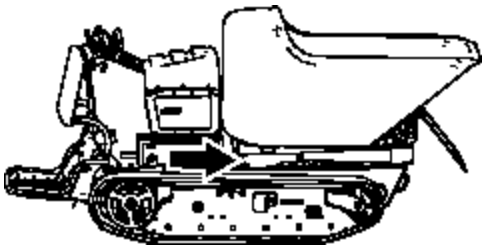
4. Clean any debris from under the hopper.
5. Wipe away debris from the air cleaner.
6. Clean any debris buildup on the engine and in the transmission with a brush or blower.

IMPORTANT

Blow out dirt rather than wash it out. If you use water, keep it away from electrical parts and hydraulic valves. Do not use a high-pressure washer. High-pressure washing can damage the electrical system and hydraulic valves or deplete grease.

Lowering the Hopper without Power

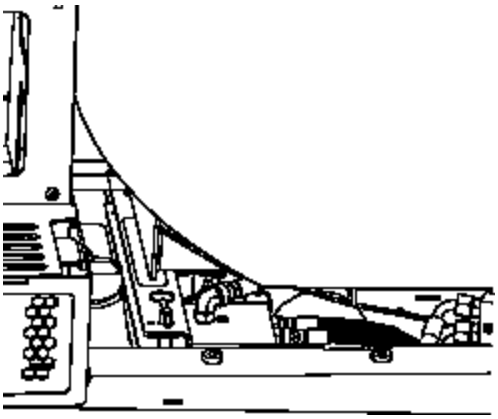
1. Install the cylinder lock.
2. Ensure that the tub is empty.
3. Place a large drain pan under the hydraulic-manifold block.
4. Remove the access panel.


G384891

5. Disconnect the hose fittings in the manifold block and allow the fluid to drain into the pan.

   Note: Dispose of the used fluid at a certified recycling center.
6. Connect the hose fittings.

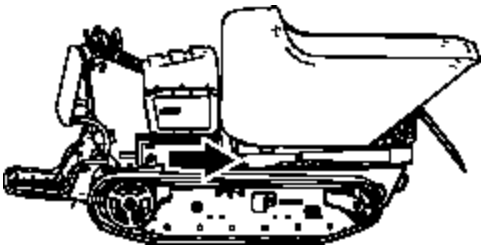

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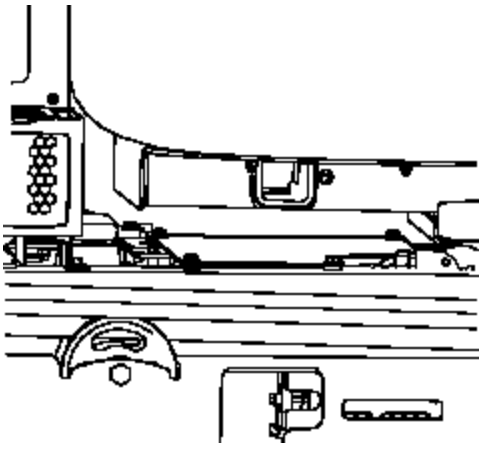

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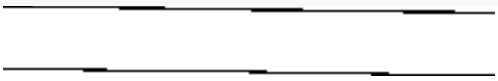
Raising the Hopper without Power

1. Remove any material from the hopper.
2. Raise the machine and support it using jack stands rated for the weight of the machine.
3. Place a large drain pan under the hopper lift cylinder.
4. Remove the access panel.
5. Disconnect the hose fittings in the manifold block and allow the fluid to drain into the pan.

   Note: Dispose of the used fluid at a certified recycling center.
6. Use a hoist or have 2 people hold up the hopper and install the cylinder lock.
7. After making repairs, install the hoses to the manifold block fittings.
8. Add hydraulic fluid.
9. Remove and store the cylinder lock.


G384891


G384893



G384892

Haul the Machine

Use a heavy-duty trailer or truck to haul 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.

⚠ 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

⚠ WARNING ⚠

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

- **Use only full-width ramps.**
- **Ensure that the length of ramp is at least 4 times as long as the height of the trailer or truck bed to the ground. This ensures that ramp angle does not exceed 15 degrees on flat ground.**

G229507

(1) Full-width ramp(s) in stowed position

(2) Ramp is at least 4 times as long as the height of the trailer or truck bed to the ground

(3) H = height of the trailer or truck bed to the ground

(4) Trailer



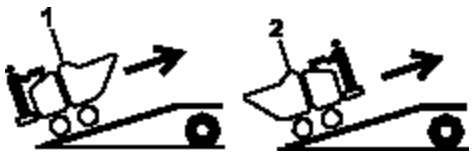
Loading the Machine

⚠ 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.**
- **Load and unload the machine with the heavy end up 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.**

1. If using a trailer, connect it to the towing vehicle and connect the safety chains.
2. If applicable, connect the trailer brakes.
3. Lower the ramp(s).
4. Load the machine onto the trailer with the heavy end up the ramp, carrying loads low.
    - If the machine has a **full** hopper, drive the machine forward up the ramp (1).
    - If the machine has an **empty** hopper, back the machine up the ramp (2).



g357132

5. Engage the parking brake and shut off the engine.
6. Use the metal tie-down loop to securely fasten the machine to the trailer or truck with straps, chains, cable, or ropes . Refer to local regulations for tie-down requirements.

IMPORTANT

Do not use the tie-down loops to lift the machine.

Unloading the Machine

1. Lower the ramp(s).
2. Lower the operator platform.
3. Unload the machine from the trailer with the heavy end up the ramp, carrying loads low.
   - If the machine has a **full** hopper, back it down the ramp (1).
   - If the machine has an **empty** hopper, drive it forward down the ramp (2).



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Maintenance

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

IMPORTANT

Refer to your engine owner's manual for additional maintenance procedures.

Maintenance Safety

- Park the machine on a level surface, engage the parking brake, and shut off the engine. Wait for all movement to stop and allow the machine to cool before adjusting, servicing, cleaning, or storing the machine.

- Battery gasses can explode. Keep cigarettes, sparks, and flames away from the battery.
- Do not change the engine governor setting or overspeed the engine.
- Support the machine with jack stands whenever you work under the machine.
- Carefully release pressure from components with stored energy.
- Keep all parts in good working condition and all hardware tightened. Replace all worn or damaged decals.
- Use the cylinder lock to secure the hopper in the raised position.
- Never tamper with safety devices.
- To ensure safe, optimal performance of the machine, use only genuine Toro replacement parts. Replacement parts made by other manufacturers could be dangerous, and such use could void the product warranty.
- Seek immediate medical attention if fluid is injected into skin. Injected fluid must be surgically removed within a few hours by a doctor.
- Ensure that all hydraulic-fluid hoses and lines are in good condition and all hydraulic connections and fittings are tight before applying pressure to the hydraulic system. Keep your body and hands away from pinhole leaks or nozzles that eject high-pressure hydraulic fluid.
- Use cardboard or paper to find hydraulic leaks.
- Safely relieve all pressure in the hydraulic system before performing any work on the hydraulic system.

Recommended Maintenance Schedule

Maintenance Service Interval	Maintenance Procedure	Part No.	Qty	Description
Before each use or daily	Check the engine oil level.	-	-	-
	Clean the blower housing.	-	-	-
	Check the tracks.	-	-	-
	Check the parking brake operation.	-	-	-
	Check the hydraulic fluid for the drive system.	-	-	-

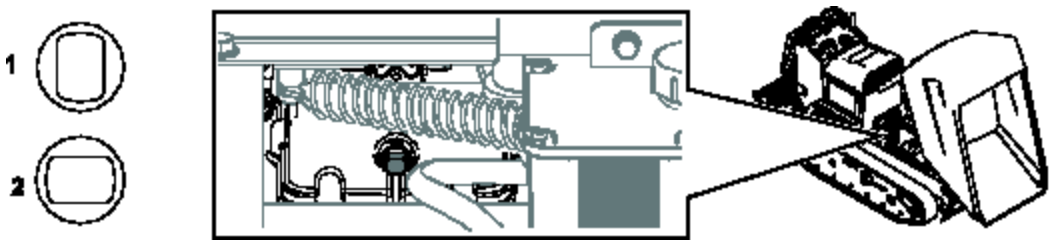
Every 40 hours	Check the hydraulic lines.	-	-	-
Every 50 hours	Grease and oil the machine.	-	-	-
	Check and adjust the track tension	-	-	-
	Check the battery.	-	-	-
Every 100 hours	Change the engine oil.	-	-	-
	Change the engine oil filter.	-	-	-
	Replace the air cleaner paper element.	-	-	-
	Replace the fuel filter.	-	-	-
	Check the spark plug.	-	-	-
	Clean the cooling areas under the cooling shrouds.	-	-	-
	Inspect the drive belt.	-	-	-
	Clean the chassis.	-	-	-
Every 300 hours	Check the road wheels.	-	-	-
	Replace the spark plug.	-	-	-
	Replace the drive belt.	139-1295	1	Belt
	Change the hydraulic fluid for the drive system.	108-1184	1	Toro premium transmission/hydraulic fluid
	Change the hydraulic fluid for the lift system.	114-4714	2	Toro hypr-oil 500
	Change the hydraulic filters for the drive system.	137-3772	2	Filter
	Change the hydraulic filters for the lift system.	1-633750	1	Filter

Pre-Maintenance Procedures

Moving a Non-Functional Machine

IMPORTANT

3. Using a wrench, turn the bypass valve on the left and right transaxles so that the flat sides of the valve face left and right (Tow position 1).



g375754

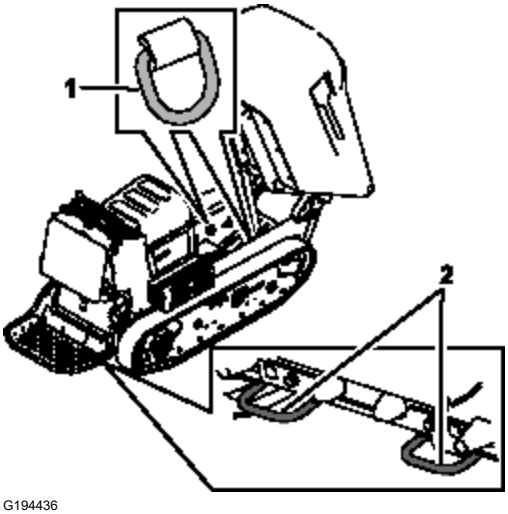
4. Tow the machine as required.
5. After repairing the machine, turn the bypass valves so that the flat sides face up and down (drive position 2).
6. Remove the cylinder lock and lower the hopper.

Lifting the Machine

Ensure that the hopper is empty before lifting the machine.

1. Place the platform in the raised position.
2. Hoist the machine using the 2 lift points under the hopper 1 and the 2 rear tie-down points 2. Tilt the hopper forward to locate the 2 lift loops and attach a chain or straps at each of the loops.

   Note: Take up the slack in the chain or straps to properly balance the unit.



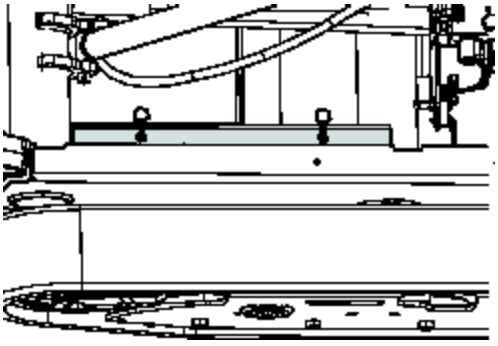
G194436

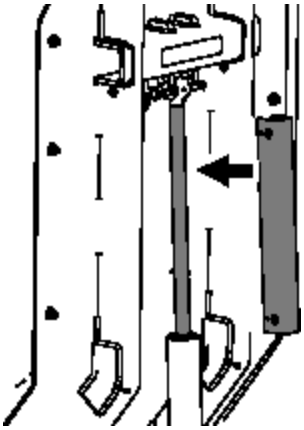
Releasing the Cushion for Rear Access

1. Lower the platform.
2. Loosen the twist knobs 1 on each side of the machine.
3. Remove the cushion 2 and lower it to the platform.

Installing the Cylinder Lock

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and fully raise the hopper.
2. Remove the 2 cotterless pins securing the cylinder lock to the machine.
3. Slide the cylinder lock over the lift-cylinder rod and secure with the cotterless pins.


G375954

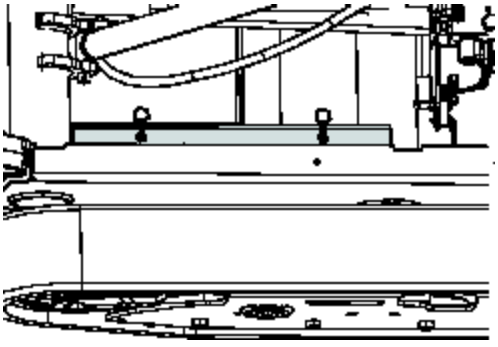

G324856

Removing and Storing the Cylinder Lock

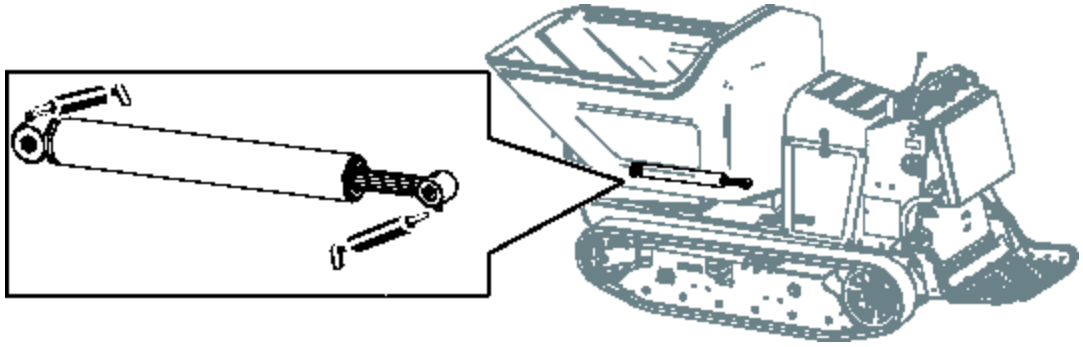
IMPORTANT

Remove the cylinder lock from the lift-cylinder rod and fully secure it in the storage position before operating the machine.

1. Start the machine.
2. Fully raise the hopper.
3. Shut off the engine.
4. Remove the cotterless pins securing the cylinder lock.
5. Place the cylinder lock on the posts inside the machine frame and secure with the cotterless pins.
6. Lower the hopper.


G375954

2. Shut off the engine and allow the engine to cool.
3. Clean the grease fittings with a rag.
4. Connect a grease gun to each fitting.



G376192

5. Pump grease into the fittings until grease begins to ooze out of the bearings (approximately 3 pumps).
6. Wipe up any excess grease.

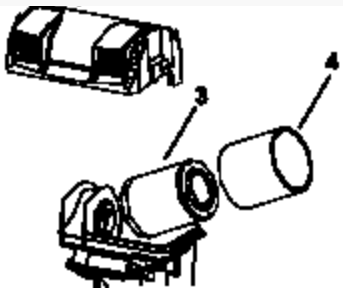
Engine Maintenance

Servicing the Air Cleaner

IMPORTANT

Do not operate the engine without the air-cleaner element. Operating without an element causes damage to the engine.

1. Rotate the latches (2) outward.
2. Remove the cover (1) to access the air-cleaner elements.
3. Remove the cover to access the air-cleaner elements.
4. Remove the foam element (4) from the paper element (3).
5. Service the foam element (4).
    1. A. Wash the foam element in warm water and detergent.



G376312

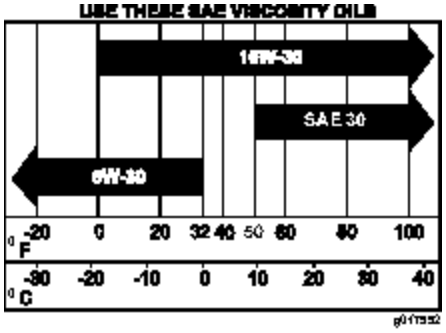
Note: Replace a dirty, bent, or damaged element. Handle the new element carefully; do not use if the sealing surfaces are bent or damaged.

7. Install the elements.
    1. A. Install the foam element onto the paper element.
    2. B. Install the elements onto the air-cleaner base.
    3. C. Install the cover, and secure it with the latches.

Engine Oil Service

Engine Oil Specifications

Crankcase capacity:	1.9 L (64 fl oz)
Oil type:	API classification SJ or later.
Oil viscosity:	Selected the oil viscosity according to ambient temperature in the table below.



g017552

Checking the Engine-Oil Level



G376333

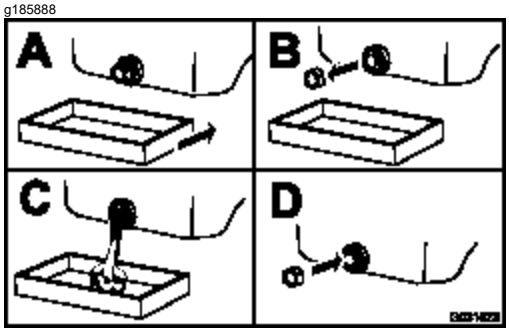
1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Open the cowl.
4. Check the engine-oil level.

Changing the Engine Oil and Filter

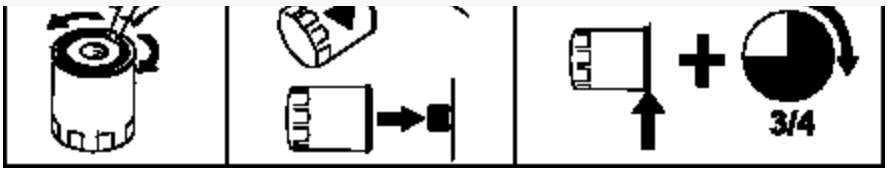
1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, raise the hopper, and install the cylinder lock.
2. Shut off the engine and remove the key.
3. Perform the following steps to change the engine oil:
    1. A. Remove the drain plug and allow all of the existing oil to drain out of the engine.
    2. B. Install the drain plug. Torque the plug to **13.6 N·m (10 ft-lb)**.
4. Change the engine-oil filter.



g185888

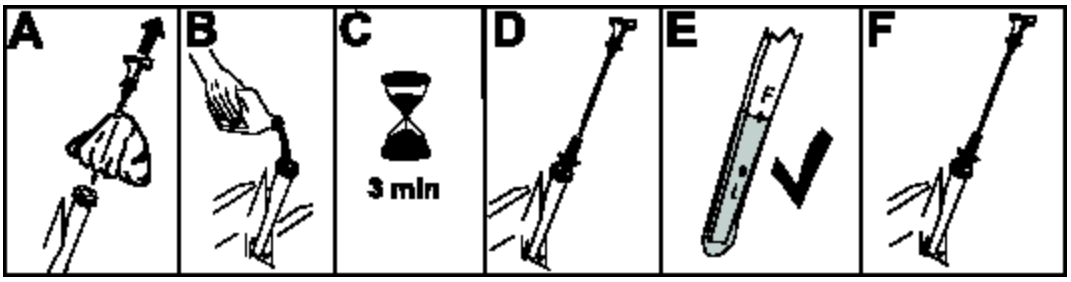


g031623



G376169

5. Slowly pour approximately 80% of the specified oil into the filler tube.

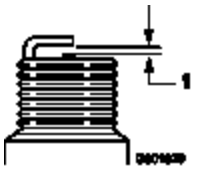


G381006

Replacing the Spark Plug

1. Remove the spark-plug wire.
2. Clean around spark plug and remove plug from cylinder head.

   Note: Replace a cracked, fouled, or dirty spark plug. Do not sand blast, scrape, or clean electrodes because engine damaged could result from grit entering the cylinder.
3. Set the air gap at 0.70 to 0.80 mm (0.028 to 0.031 inch) (1). Install the spark plug carefully by hand to avoid cross-threading.



g001029

4. After the spark plug is seated, tighten it with a spark plug wrench to compress the sealing washer.
5. When installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer.
6. When installing the original spark plug, tighten 1/8 to 1/4 turn after the spark plug seats to compress the washer.

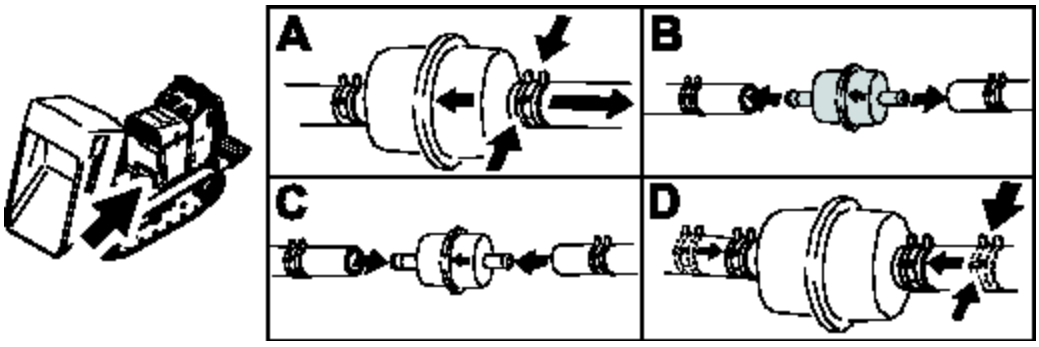
   Note: A loose spark plug can overheat and damage the engine. Overtightening the spark plug can damage the threads in the cylinder head.
7. Connect the spark-plug wire.

Operating the engine with dirty or plugged cooling fins and/or cooling shrouds removed causes engine damage due to overheating.

1.

Fuel System Maintenance

Replacing the Fuel Filter



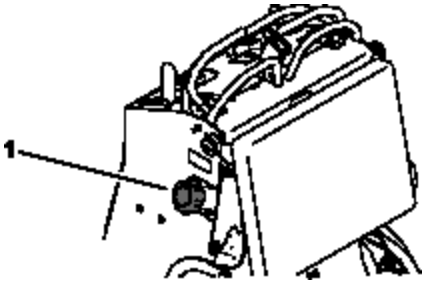
G376153

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Replace the fuel filter.

Draining the Fuel Tank

You can drain the fuel tank by either siphoning the fuel out or removing the fuel tank and pouring the fuel out of the fill neck.

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Clean around the fuel cap (1) to prevent debris from getting into the fuel tank.



G186224

1. Lower the platform.
2. Release the cushion.
3. Remove the cross bracket (2).
4. Remove the fuel tank (1) and set it on the operator platform.

   Note: Remove the fuel and vent lines from the top of the tank to move the fuel tank further from the machine.



G186223

Electrical System Maintenance

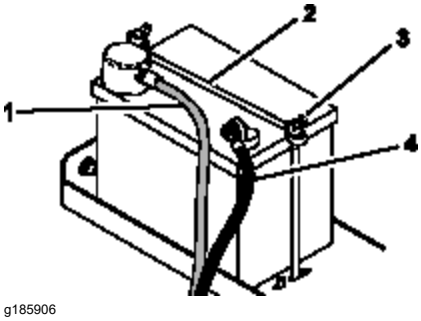
Electrical System Safety

- Disconnect the battery before repairing the machine. Disconnect the negative terminal first and the positive last. Connect the positive terminal first and the negative last.
- Charge the battery in an open, well-ventilated area, away from sparks and flames. Unplug the charger before connecting or disconnecting the battery. Wear protective clothing and use insulated tools.
- Battery acid is poisonous and can cause burns. Avoid contact with skin, eyes, and clothing. Protect your face, eyes, and clothing when working with a battery.
- Battery gases can explode. Keep cigarettes, sparks, and flames away from the battery.

Battery Service

Removing the Battery

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Remove the negative battery cable (4) from the battery.
4. Remove the positive battery cable (1) from the battery.
5. Remove the 2 wing nuts (3), securing rod (2), and the battery.



g185906

IMPORTANT

Always keep the battery fully charged (1.265 specific gravity). This is especially important to prevent battery damage when the temperature is below 0°C (32°F).

1. Remove the battery from the machine.
2. Perform the following steps to check the electrolyte level:
    1. A. Ensure that the cell covers are free from dirt and debris.

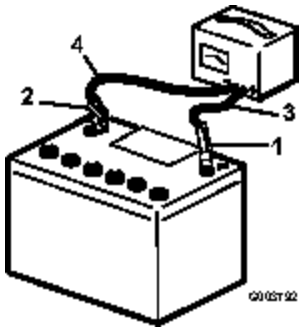
       IMPORTANT

       Dirt and debris that enters the battery cells causes damage to the battery.

    2. B. Remove the covers from the top of the cells.
    3. C. Ensure that the electrolyte solution covers the lead plates. Use distilled water to top off the solution level, if needed.
3. Ensure that the filler caps are installed on the battery.
4. Charge the battery for 1 hour at 25 to 30 A or 6 hours at 4 to 6 A.

   IMPORTANT

   Do not overcharge the battery.



g003792

(1) Positive battery post
(2) Negative battery post
(3) Red (+) charger lead
(4) Black (-) charger lead

5. When the battery is fully charged, unplug the charger from the electrical outlet, and disconnect the charger leads from the battery posts.

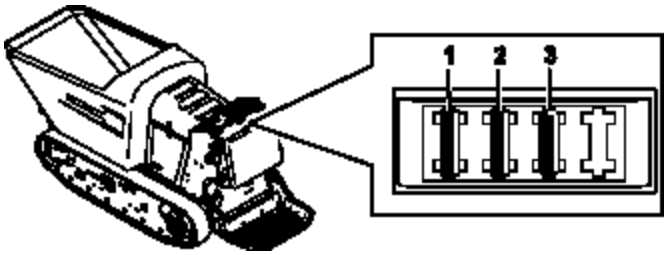
3. Install the negative battery cable (4) to the battery.



g185906

Replacing a Fuse

The electrical system is protected by fuses and requires no maintenance. If a fuse blows, check the component or circuit for a malfunction or short.



G376375

(1) Main power fuse (15 A)
(2) Auxiliary power fuse (15 A)
(3) Logic fuse (7.5 A)

1. Release the cushion from the rear of the machine.
2. Pull out the fuse to remove or replace it.
3. Install the cushion to the rear of the machine.

   Note: Ensure that the correct-size fuse is installed.

If a fuse blows a second time, check the component/circuit for a malfunction or a short or contact your Authorized Service Dealer.

Drive System Maintenance

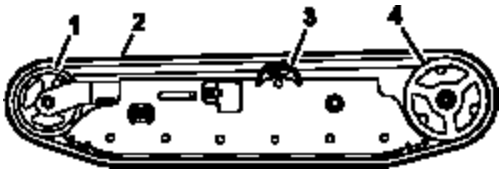
Track Service

Cleaning the Tracks

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Lift/support the side of the machine to be worked on so that the track is 7.6 to 10 cm (3 to 4 inches) off the ground.

IMPORTANT

Ensure that you fully clean the road wheels, the front wheel, and the drive sprocket. The road wheels should rotate freely when clean.



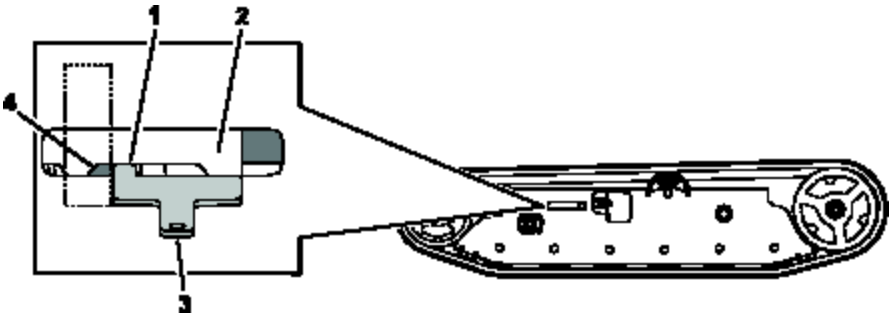
G186007

1. Front wheel
2. Track
3. Road wheel
4. Drive sprocket

Checking the Track Tension

1. Place the tab (1) of the tensioning tool (3) along the rear edge of the tension nut (4), the other end of the tensioning tool should align with the edge of the tension arm (2). If the distance is not correct, adjust the track tension

   Note: If the tensioning tool is not available, the distance between the nut and edge of the tension arm should be 7.1 cm (2-13/16 inches).

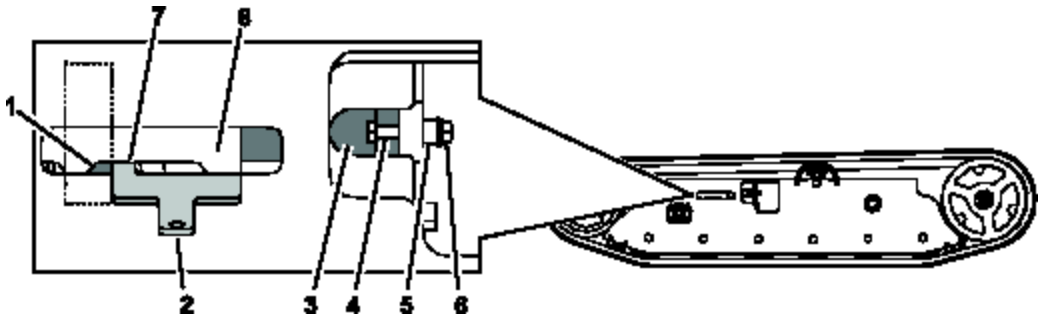


G376373

Adjusting the Track Tension

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Clean the tracks with high-pressure water.

5. Clean the drive sprocket, the front wheel, and the road wheels. The road wheels should spin freely when clean.
6. Remove the bolt (1/4 x 1-5/8 inches) (4), spacer (5), and nut (6).
7. Turn the tensioning bolt (3) to adjust the distance between the tension nut (1) and the end tangent of the tension tube until the distance is correct.
8. Align the closest notch in the tensioning bolt to the bolt hole and secure the tensioning bolt with the bolt (1/4 x 1-5/8 inches), spacer, and nut.



G376372

Replacing the Tracks

Removing a Track

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Lift/support the side of the machine to be worked on so that the track is 7.6 to 10 cm (3 to 4 inches) off the ground.
4. Remove the retaining bolt for the tensioning screw.



g186008

(1) Front wheel
(2) Track
(3) Tensioning screw and retaining bolt
(4) Road wheel
(5) Drive sprocket

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Lift/support the side of the machine to be worked on.



g186008

(1) Front wheel
(2) Track
(3) Tensioning screw and retaining bolt
(4) Road wheel
(5) Drive sprocket

4. Beginning at the drive sprocket, coil the new track around the sprocket, ensuring that the lugs on the track fit between the spacers on the sprocket.
5. Push the track under the lugs and between the road wheels.
6. Starting at the bottom of the front wheel, install the track around the wheel by rotating the track rearward while pushing the lugs into the wheel.
7. Tension the track.
8. Lower the machine to the ground.

Drive Belt

Inspecting the Drive Belt

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Release the cushion and remove the fuel tank.
4. Inspect the belt. Replace the belt if it is worn.

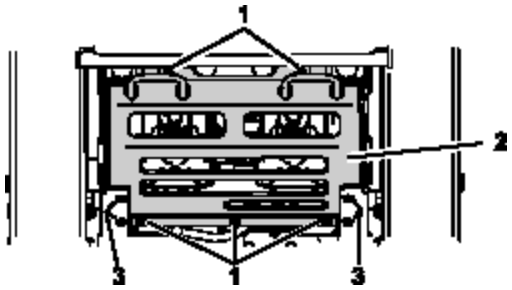
   Note: The signs of a worn belt include squealing while the belt is rotating, frayed edges, burn marks, and cracks on the belt.

G189546

(1) Extension spring

engage the parking brake, and lower the hopper.

2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Release the cushion and remove the fuel tank.
4. Raise the rear of the machine and support the machine on jack stands.
5. Remove the skid plate.

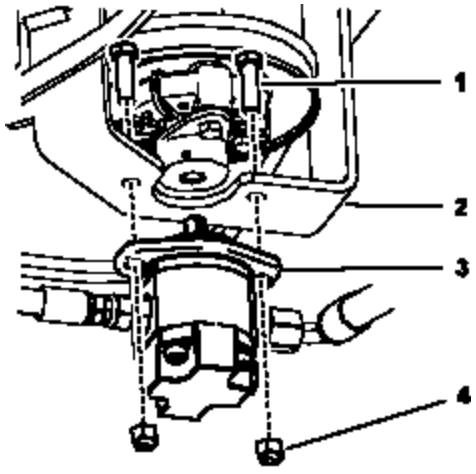


G325648

1. Rear bolt (2)
2. Skid plate
3. Side bolt (4)

6. Remove the extension spring.
7. Remove the 2 bolts and 2 nuts and loosen the 2 set screws on the coupler. Remove the gear pump from the pump mount.

   Note: You do not need to remove the fittings from the pump.



G189559

1. Bolt (2)
2. Pump mount
3. Gear pump
4. Nut (2)

8. Remove the drive belt from the engine pulley and 2 transmission pulleys.

G189571

1. Engine pulley
2. Idler pulley
3. Transmission pulley (2)

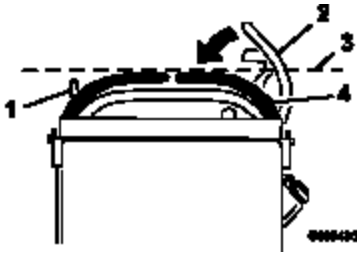
9. Route the new belt around the engine pulley and 2 transmission pulleys.
10. Install the gear pump.
11. Install the extension spring.
12. Install the fuel tank.
13. Raise the cushion.

Controls Maintenance

Adjusting the Motion-Control Levers

If the motion-control levers do not align horizontally, adjust the right side motion-control lever.

1. Park the machine on a level surface, lower the hopper, engage the parking brake, shut off the engine, and remove the key.
2. Push the motion-control levers down out of the NEUTRAL-LOCK position.
3. Check if the right motion-control lever aligns horizontally with the left motion-control lever.



G009436

(1) Left motion-control lever

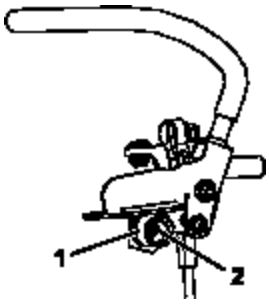
(2) Right motion-control lever in the Neutral-lock position

(3) Check the horizontal alignment here

(4) Right motion-control lever

4. Release the cushion from the rear of the machine.
5. Loosen the nut (2) holding the cam (1).
6. Adjust the cam until it aligns with the left motion-control lever and tighten the nut for the cam.

   Note: Moving the cam clockwise (in the vertical position) lowers the handle; moving the cam counterclockwise (in the vertical position) raises the handle.



G189389

IMPORTANT

Checking the Parking Brake

1. Park the machine on a level surface, lower the hopper, and engage the parking brake.
2. Start the engine and move the throttle lever to the FAST position.
3. Move the motion-control levers forward.

   The machine should not move forward.

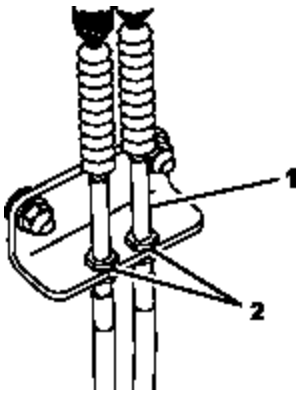
   If the machine moves forward, adjust the parking brake.
4. Release the parking brake.
5. Move the motion-control levers forward.

   The machine should move forward.

   If the machine does not move forward, adjust the parking brake.
6. Engage the parking brake and shut off the machine.

Adjusting the Parking Brake

1. Remove the fuel tank.
2. Inside the left side of the control tower, adjust the nuts (2) until the cables (1) are taught.
3. Install the fuel tank, cross bracket, and cushion.



G186011

Hydraulic System Maintenance

Hydraulic Drive System

Hydraulic Drive System Fluid Specifications

Hydraulic-Fluid type:	Toro® HYPR-OIL™ 500

- If either of the above Toro fluids are not available, you may use another **Universal Tractor Hydraulic Fluid (UTHF)**, but they must be only **conventional, petroleum-based** products. The specifications must fall within the listed range for all the following material properties and the fluid should meet the listed industry standards. Check with your hydraulic fluid supplier to determine if the fluid meets these specifications.

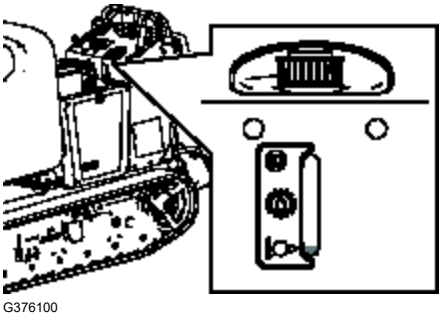
  Note: Toro will not assume responsibility for damage caused by improper substitutions, so use only products from reputable manufacturers who will stand behind their recommendations.

Material Properties	
Viscosity, ASTM D445	cSt at 40°C: 55 to 62
	cSt at 100°C: 9.1 to 9.8
Viscosity index, ASTM D2270	140 to 152
Pour Point, ASTM D97	-37 to -43°C (-35 to -46°F)
Industry Standards	
API GL-4, AGCO Powerfluid 821 XL, Ford New Holland FNHA-2-C-201.00, Kubota UDT, John Deere J20C, Vickers 35VQ25 and Volvo WB-101/BM	

  Note: Many hydraulic fluids are almost colorless, making it difficult to spot leaks. A red dye additive for the hydraulic system fluid is available in 20 ml (2/3 fl oz) bottles. One bottle is sufficient for 15 to 22 L (4 to 6 US gallons) of hydraulic fluid. Order Part No. 44-2500 from your Authorized Toro Dealer.

Checking the Hydraulic-Fluid Level for the Drive System

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Open the cowl.


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out of the breather hole.

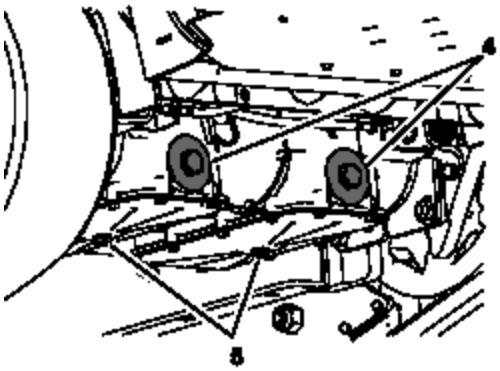


6. Install the cap and cap lock. Wipe up any spilled hydraulic fluid.

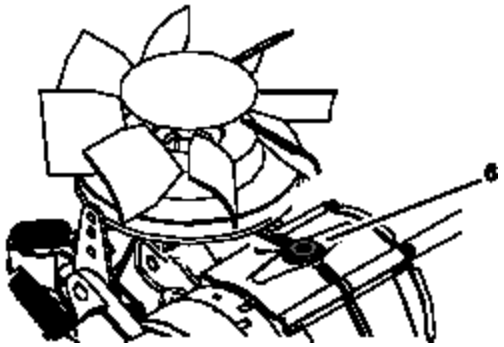
Changing the Hydraulic Fluid and Filter for the Drive System



1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Lower the cushion and remove the fuel tank.
4. Remove the 9 bolts (5 rear (1), 4 side (3)) from the skid plate (2) and remove the skid plate.



5. Locate the drain plug (5) in the bottom of each transmission, then place a drain pan under the plugs.
6. Remove the drain plugs and allow the hydraulic fluid to fully drain from the machine.
7. Remove the hydraulic-filter cap and hydraulic filter (4) from each transmission.
8. Install a new hydraulic filter with the spring side facing out and the hydraulic-filter cap for each transmission.
9. Torque to **13 to 15 N·m (115 to 135 in-lb)**.
10. Install the drain plugs.
11. Loosen the vent plug (6) in each transmission until loose.



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Note: This allows air to escape the hydraulic system as you add hydraulic fluid.

12. Slowly add approximately 6.2 L (208 fl oz) fluid to the expansion tank until it starts to come out of the vent plugs.

IMPORTANT

14. Add hydraulic fluid to the expansion tank until it reaches the fluid line.

    IMPORTANT

    Do not overfill.

15. Install the expansion-tank cap.
16. Install the skid plate.
17. Install the fuel tank.
18. Start the engine and let it run for about 2 minutes to purge air from the system.
19. Shut off the engine and check for leaks.

Bleeding the Hydraulic Drive System

Bleed the traction hydraulic system whenever you perform service or maintenance on the hydrostatic transmission or add hydraulic fluid to the expansion tank.

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, and lower the hopper.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Check the hydraulic fluid level and add hydraulic fluid as necessary.
4. Support the machine on jack stands, high enough to raise the tracks off the ground.
5. Start the machine. Slowly move the motion-control levers forward and reverse 5 to 6 times.
6. Check the hydraulic fluid level and add hydraulic fluid as necessary.
7. Repeat Step and Step as necessary until all the air is completely purged from the system.

   Note: Purging is complete when you obtain normal forward and reverse speed.
8. Lower the machine and repeat the procedure with the tracks on the ground.

Hydraulic Lift System

Hydraulic Lift Fluid Specifications

for more information)

- **Toro PX Extended Life Hydraulic Fluid** (refer to your Authorized Service Dealer for more information)
- If either of the above Toro fluids are not available, you may use another **Universal Tractor Hydraulic Fluid (UTHF)**, but they must be only **conventional, petroleum-based** products. The specifications must fall within the listed range for all the following material properties and the fluid should meet the listed industry standards. Check with your hydraulic fluid supplier to determine if the fluid meets these specifications.

  Note: Toro will not assume responsibility for damage caused by improper substitutions, so use only products from reputable manufacturers who will stand behind their recommendations.

Material Properties	
Viscosity, ASTM D445	cSt at 40°C: 55 to 62
	cSt at 100°C: 9.1 to 9.8
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Industry Standards	
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Note: Many hydraulic fluids are almost colorless, making it difficult to spot leaks. A red dye additive for the hydraulic system fluid is available in 20 ml (2/3 fl oz) bottles. One bottle is sufficient for 15 to 22 L (4 to 6 US gallons) of hydraulic fluid. Order Part No. 44-2500 from your Authorized Toro Dealer.

Checking the Hydraulic-Fluid Level for the Lift System

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, rotate and raise the hopper, and install the cylinder lock.
2. Shut off the machine and remove the key. Allow the machine to cool completely.
3. Remove the filler cap from the reservoir tank.

should be at the hot (1) level.

5. Fill the tank with hydraulic fluid only up to the cold (2) level.
6. Install the fill cap. Wipe up any spilled fluid.
7. Remove the cylinder lock and lower the hopper.

Changing the Hydraulic Fluid for the Lift System

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, raise the hopper, and install the cylinder lock.
2. Shut off the machine and remove the key. Allow the machine to cool completely.
3. Remove the filler cap from the reservoir tank

⚠ CAUTION ⚠

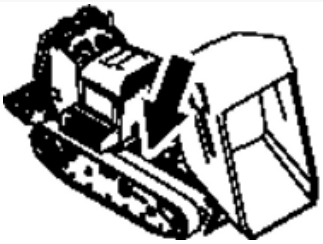
The hydraulic breather/filler cap is designed to pressurize the reservoir to 34 kPa (5 psi).

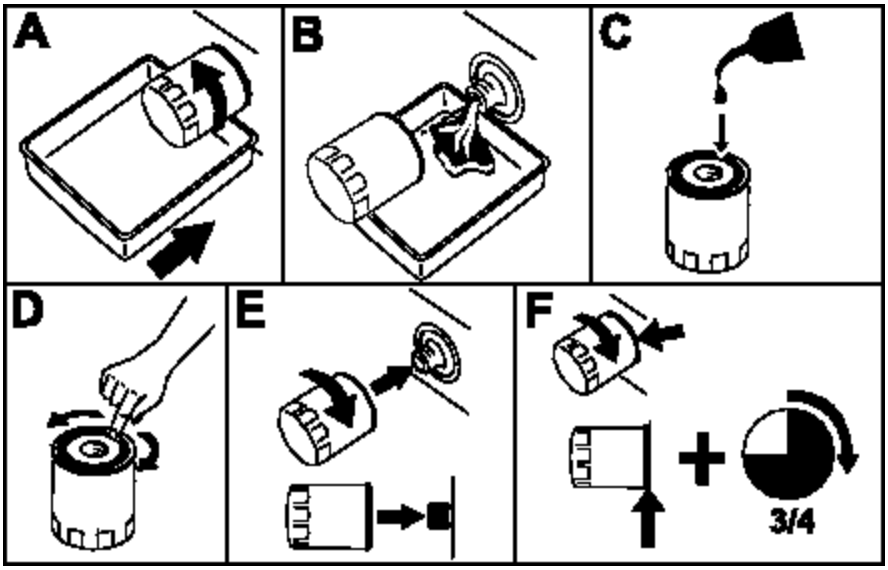
Loosen the cap slowly to avoid injury whenever adding fluid or working on the hydraulic system. Use a wrench on the hex (1) directly under the cap.

4. Place a large drain pan under the fittings at the bottom of the reservoir tank.
5. Disconnect a hose fitting and allow the fluid to drain into the pan.
6. When finished, install and tighten the fitting. Note: Dispose of the used fluid at a certified recycling center.
7. Fill the reservoir tank with approximately 2.2 L (74 fl oz) and install the filler cap.
8. Remove the cylinder lock.
9. Start the engine. Raise and lower the hopper 3 times to fill the cylinder and hoses with fluid.
10. Raise the hopper and install the cylinder lock.
11. Shut off the engine.
12. Add 0.60 L (20 fl oz) of hydraulic fluid and install the filler cap.

    Note: The fluid level should be at the Cold fill line. Do not fill past this line.
13. Remove the cylinder lock.

1. Park the machine on a level surface, move the motion-control levers to the NEUTRAL-LOCK position, engage the parking brake, raise the hopper, and install the cylinder lock.
2. Shut off the engine, and remove the key. Allow the engine to cool.
3. Replace the filter.


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4. Start the engine and let it run for about 2 minutes to purge air from the system.
5. Shut off the engine and check for leaks.
6. Check the fluid level in the reservoir tank.

   Note: Do not overfill the reservoir tank.
7. Remove the cylinder lock and lower the hopper.

Checking the Hydraulic Lines

1. Check the hydraulic lines for leaks, loose fittings, kinked lines, loose mounting supports, wear, and deterioration. Make necessary repairs before operating.

Cleaning

2. Unlatch and remove the cowl.
3. Clean any debris from under the hopper.
4. Wipe away debris from the air cleaner.
5. Clean any debris buildup on the engine and in the transmission with a brush or blower.

IMPORTANT

It is preferable to blow dirt out rather than washing it out. If you use water, keep it away from electrical items and hydraulic valves.

Do not use a high-pressure washer. High-pressure washing can damage the electrical system and hydraulic valves or deplete grease.

Storage

Storage Safety

- Shut off the engine, remove the key (if applicable), wait for all moving parts to stop, and allow the machine to cool before storing it.
- Do not store the machine or fuel near flames.

Preparing the Machine for Storage Over 30 Days

1. Park the machine on a level surface, engage the parking brake, and lower the hopper.
2. Shut off the engine and remove the key.
3. Remove dirt and grime from the entire machine.

5. Grease the machine.
6. Change the engine oil.
7. Prepare the fuel system.
    1. A. Add a petroleum-based fuel stabilizer/conditioner to the fuel in the tank. **Do not use an alcohol-based stabilizer (ethanol or methanol).**
    2. B. Run the engine to distribute conditioned fuel through the fuel system for 5 minutes.
    3. C. Shut off the engine, allow it to cool, and drain the fuel tank using a pump-type syphon.
    4. D. Start the engine and run it until it shuts off.
    5. E. Choke the engine.
    6. F. Start and run the engine until it does not start again.
    7. G. Dispose of fuel properly. Recycle as per local codes.

    IMPORTANT

    Do not store fuel containing stabilizer/conditioner longer than the duration recommended by the fuel-stabilizer manufacturer.

8. Prepare the engine.
    1. A. With the spark plugs removed from the engine, pour 2 tablespoons of engine oil into the spark plug holes.
    2. B. Place a rag over the spark plug holes to catch any oil spray, then turn the key to crank the engine and distribute the oil inside the cylinder.
    3. C. Install the spark plugs.

    Note: Do not install the wire on the spark plugs.
9. Check and tighten all fasteners. Repair or replace any worn, damaged, or missing parts.
10. Paint all scratched or bare metal surfaces with paint available from your Authorized Service Dealer.
11. Store the machine in a clean, dry garage or storage area. Remove the key from the ignition switch and keep it in a memorable place.
12. Cover the machine to protect it and keep it clean.

The engine loses power.

Possible Cause	Corrective Action
The engine load is excessive.	1. Reduce the ground speed.
The air cleaner is dirty.	1. Service the air-cleaner element.
The oil level in the crankcase is low.	1. Add oil to the crankcase.
The cooling fins and air passages under the engine blower housing are plugged.	1. Remove the obstruction from the cooling fins and air passages.
A spark plug is pitted, fouled, or the gap is incorrect.	1. Install a new, correctly gapped spark plug.
The vent hole in the fuel cap is plugged.	1. Clean or replace the fuel cap.
Dirt is in the fuel filter.	1. Replace the fuel filter.
Dirt, water, or stale fuel is in the fuel system.	1. Contact an Authorized Service Dealer.

The engine does not start, starts hard, or fails to keep running.

Possible Cause	Corrective Action
The fuel tank is empty or the shutoff valve is closed.	1. Fill the fuel tank with fuel and open the valve
A spark-plug wire is loose or disconnected.	1. Install the wire on spark plug.

The engine overheats.

Possible Cause	Corrective Action
The engine load is excessive.	1. Reduce the ground speed.
The oil level in the crankcase is low.	1. Add oil to the crankcase.
The cooling fins and air passages under the engine blower housing are plugged.	1. Remove the obstruction from the cooling fins and air passages.

The machine does not drive.

Possible Cause	Corrective Action
The hydraulic-fluid in the transmission is low.	1. Add hydraulic fluid to the hydraulic fluid expansion tank in the tower.
Air is in the hydraulic system.	1. Bleed the air out the hydraulic system.
A drive belt slipped.	1. Replace the pump-drive belt.
A drive belt idler spring is missing.	1. Replace the pump-drive belt idler spring.
The bypass valves are in the tow position.	1. Turn the bypass valves to the drive position.

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.

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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