

Count on it.

Operator's Manual

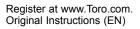
TimeCutter[®] SS 4235, 4260, 5000, and 5060 Riding Mower

Model No. 74625—Serial No. 314000001 and Up

Model No. 74626—Serial No. 314000001 and Up

Model No. 74631—Serial No. 314000001 and Up

Model No. 74632—Serial No. 314000001 and Up





A WARNING

CALIFORNIA Proposition 65 Warning

This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.

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

This machine is a ride-on, rotary-blade lawnmower intended to be used by homeowners in residential applications. It is primarily designed for cutting grass on well-maintained lawns. It is not designed for cutting brush, mowing grass and other growth alongside highways, or for agricultural uses.

Important: This engine is not equipped with a spark arrester muffler. It is a violation of California Public Resource Code Section 4442 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land. Other states or federal areas may have similar laws.

This spark ignition system complies with Canadian ICES-002.

A WARNING

Removing standard original equipment parts and accessories may alter the warranty, traction, and safety of the machine. Failure to use original Toro parts could cause serious injury or death. Making unauthorized changes to the engine, fuel or venting system, may violate EPA and CARB regulations.

Replace all parts including, but not limited to, tires, belts, blades, and fuel system components with original Toro parts.

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.

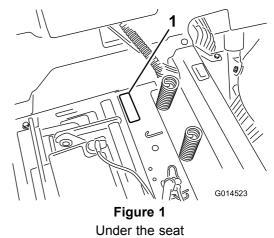
For models with stated engine horsepower, the gross horsepower of the engine was laboratory tested by the engine manufacturer in accordance with SAE J1995 and rated to J2723. As configured to meet safety, emission, and operating requirements, the actual engine horsepower on this class of lawn mower will be significantly lower.

Introduction

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.

You may contact Toro directly at www.Toro.com for product and 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.



1. Model and serial number plate

Write the product model and serial numbers in the space below:

Model No. _____

This manual identifies potential hazards and has safety messages identified by the safety alert symbol (Figure 2), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



1. Safety alert symbol.

This manual uses two 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

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.

Safe Operating Practices

This product is capable of amputating hands and feet and throwing objects. Always follow all safety instructions to avoid serious injury or death.

The following instructions are adapted from ANSI standard B71.1-2012. All the language within this ANSI standard applies to this machine; however, due to the application of the standard across many different types of products some statements can seem general or misleading. In these instances, Toro has refined the statement to convey the meaning of the standard while better matching the product this *Operator's Manual* pertains. Safety information in addition to the instructions found in the ANSI standard below can be found in Toro Riding Mower Safety at the end of this section.

General Operation

- Read, understand, and follow all instructions in the operator's manual and on the machine before starting.
- Do not place hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Allow only responsible adults who are familiar with the instructions to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop the machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing up.
- Be aware of the mower discharge direction and do not point it at anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade(s) when crossing gravel surfaces.
- Do not operate the machine without deflector, discharge cover or entire grass collection system in place and working.
- Be alert, slow down and use caution when making turns. Look behind and to the side before changing directions.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove key before dismounting.

- Turn off blades when not mowing. Stop the engine, wait for all parts to come to a complete stop and remove the key before cleaning the machine, removing the grass catcher or unclogging the discharge chute.
- Operate the machine only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Always wear eye protection when operating the mower.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. Operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Always follow the recommendations for any application of counterweights.
- 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.

Slope Operation

Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

- Do not mow slopes greater than 15 degrees.
- Watch for ditches, holes, rocks, dips, and rises that change the operating angle, as rough terrain could overturn the machine.
- Choose a low ground speed so you will not have to stop while operating on a slope.
- Do not mow slopes when grass is wet. Slippery conditions reduce traction and could cause sliding and loss of control.
- Always keep the drive wheels engaged when going down slopes.
- Reduce speed and use extreme caution on slopes.
- Do not make sudden turns or rapid speed changes.
- Remove or mark obstacles such as rocks, tree limbs, etc. from the mowing area. Tall grass can hide obstacles.
- Avoid sudden starts when mowing uphill because the mower may tip backwards.
- Be aware that loss of traction may occur going downhill. Weight transfer to the front wheels may cause drive wheels to slip and cause loss of braking and steering.

- Always avoid sudden starting or stopping on a slope. If tires lose traction, stop the machine, disengage the blades and proceed slowly off the slope.
- Use extreme care with grass catchers or other attachments. These can change the stability of the machine and cause loss of control.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not mow near drop-offs, ditches, steep banks or water. Wheels dropping over edges can cause rollovers, which may result in serious injury, death or drowning.
- Use a walk behind mower and/or a hand trimmer near drop-offs, ditches, steep banks or water.

Children

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 carry children, even with the blades off. They may fall off and be seriously injured or interfere with safe machine operation.
- Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the mower.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, the end of a fence or other objects that may obscure vision.

Towing Safety

- Do not attach towed equipment except at the hitch point.
- Follow the attachment manufacturer's recommendation for weight limits for towed equipment and towing on slopes. Towed weight must not exceed the weight of the machine, operator, and ballast. Use counterweights or wheel weights as described in the attachment, or in the pulling machine *Operator's Manual*.
- Never allow children or others in or on towed equipment.
- On slopes, the weight of the towed equipment may cause loss of traction, increased risk of rollover, and loss of control. Reduce the towed weight and slow down.
- Stopping distance increases with the weight of the towed load. Travel slowly and allow extra distance to stop.
- Make wide turns to keep the attachment clear of the machine.

Service

Safe Handling of Gasoline:

To avoid personal injury or property damage, use extra care when handling gasoline and other fuels. They are flammable and the vapors are explosive.

- Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- Use only an approved container.
- Never remove the gas cap or add fuel when the engine is running. Allow the engine to cool before refueling.
- Never refuel the machine indoors.
- Never store the machine or fuel container inside where there is an open flame, such as near a water heater or furnace.
- Never fill containers inside a vehicle or on a truck or trailer with a plastic liner. Always place containers on the ground away from your vehicle before filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until the fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill the fuel tank. Replace gas cap and tighten securely.

General Service:

- Never operate a machine inside a closed area. Engine exhaust contains carbon monoxide, which is an odorless, deadly poison that can kill you.
- Keep nuts and bolts tight, especially the blade attachment bolts. Keep equipment in good condition.
- Never interfere with the intended function of a safety device or to reduce the protection provided by a safety device. Check their proper operation regularly.
- Keep the machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage fuel soaked debris. Allow the machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make any adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturers' recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check for proper brake operation frequently. Adjust and service as required.

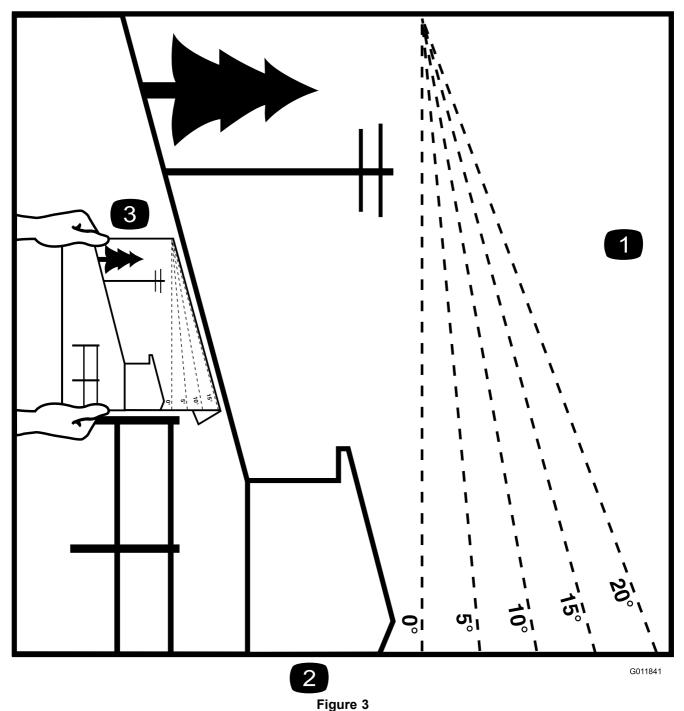
- Maintain or replace safety and instruction decals as necessary.
- Use only genuine Toro replacement parts to ensure that original standards are maintained.

Toro Riding Mower Safety

The following list contains safety information specific to Toro products or other safety information that you must know that may not be included in the ANSI standards.

- Stop the engine, move the motion control levers to neutral and outward to the park position, disengage the blade control switch, remove key before and disconnect spark plug wire(s) performing any service, repairs, maintenance or adjustments.
- Keep hands, feet, hair, and loose clothing away from attachment discharge area, underside of mower and any moving parts while engine is running.
- Do not touch equipment or attachment parts which may be hot from operation. Allow to cool before attempting to maintain, adjust or service.
- 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 battery.
- Use only Toro approved attachments. Warranty may be voided if used with unapproved attachments.
- If loading the machine onto a trailer or truck, use a single, full-width ramp only. The ramp angle should not exceed 15 degrees.

Slope Indicator



This page may be copied for personal use.

- 1. The maximum slope you can safely 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 lost.



93-7009

- 1. Warning—don't operate the mower with the deflector up or removed; keep the deflector in place.
- 2. Cutting/dismemberment hazard of hand or foot, mower blade—stay away from moving parts.

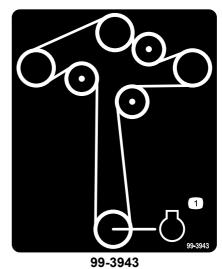


- 114-1606
- 1. Entanglement hazard, belt-keep all guards in place.



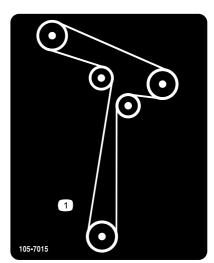
110-6691

- 1. Thrown object hazard—keep bystanders a safe distance from the machine.
- 2. Thrown object hazard, mower—do not operate without the deflector, discharge cover, or grass collection system in place.
- 3. Cutting/dismemberment of hand or foot—stay away from moving parts.

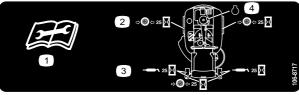


For Models with 50 Inch Decks

1. Engine



105-7015 For Models with 42 Inch Decks

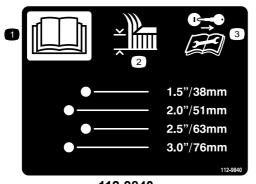


106-8717

- 1. Read the instructions before servicing or performing maintenance.
- Check tire pressure every 25 operating hours. 2.
- Grease every 25 operating hours. 3.
- 4. Engine





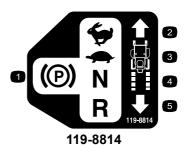


- 112-9840
- 1. Read the Operator's Manual.
- 3. Remove the ignition key and read the instructions before servicing or performing maintenance.
- 2. Height of cut

CALIFORNIA SPARK ARRESTER WARNING

Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements. 117-2718

117-2718 Model 74625 only



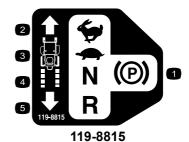
Parking position 1.

4. Neutral

Reverse

5.

- 2. Fast
- 3. Slow



- Parking position 1.
 - Fast
- 3.

2.

4. Neutral

Slow

5. Reverse



1. Height-of-cut

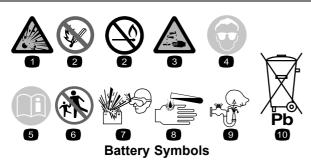


- 1. Bypass lever position for pushing the machine
- 2. Bypass lever position for operating the machine



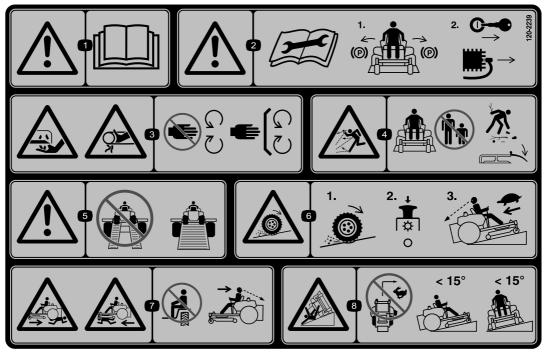
1. Indicates the blade is identified as a part from the original machine manufacturer.

1. Height-of-cut



Some or all of these symbols are on your battery

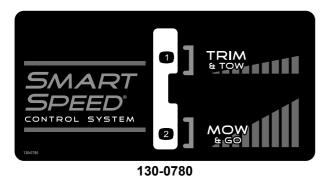
1.	Explosion hazard	6.	Keep bystanders a safe distance from the battery.
2.	No fire, open flame, or smoking.	7.	Wear eye protection; explosive gases can cause blindness and other injuries
3.	Caustic liquid/chemical burn hazard	8.	Battery acid can cause blindness or severe burns.
4.	Wear eye protection	9.	Flush eyes immediately with water and get medical help fast.
5.	Read the <i>Operator's</i> Manual.	10.	Contains lead; do not discard.



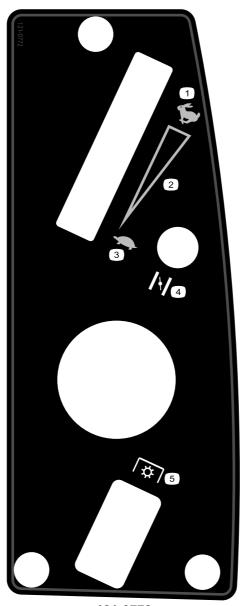
120-2239

- 1. Warning—read the Operator's Manual.
- 2. Warning—read the instructions before servicing or performing maintenance; move the motion control levers to the park (brake) position, remove the ignition key and disconnect the spark plug wire.
- 3. Cutting/dismemberment hazard, mower blade; entanglement hazard, belt—stay away from moving parts, keep all guards and shields in place.
- Thrown object hazard—keep bystanders a safe distance from the machine, pick up debris before operating, keep deflector in place.

- 5. Warning—do not use split ramps, use a full ramps when transporting machine.
- Loss of traction/control hazard, slopes—loss of traction/control on a slope, disengage the blade control switch (PTO), proceed off the slope slowly.
- 7. Crushing/dismemberment hazard of bystanders, reversing; crushing/dismemberment hazard of bystanders—do not carry passengers, look behind and down when reversing.
- 8. Tipping hazard—do not mow slopes greater than 15 degrees, avoid sudden and sharp turns while on slopes.



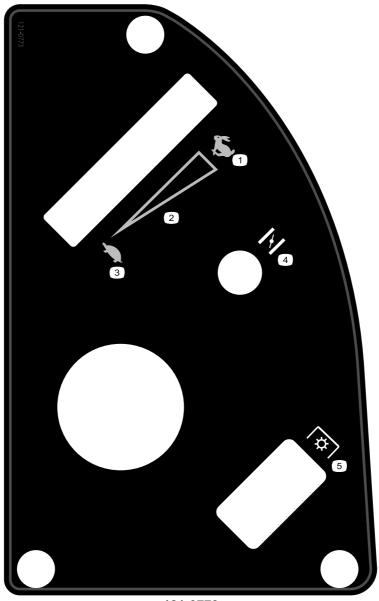
1. Low speed—trimming and 2. High speed—mowing and transport



121-0772 Models 74625 and 74626 only

- 1. Fast
- 2. Continuous variable setting
- 3. Slow

- 4. Choke
- 5. Power take-off (PTO), Blade control switch



121-0773 Models 74631 and 74632 only

4. Choke

- 1. Fast
- 2. Continuous variable setting
- 3. Slow

Safety

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.

Safe Operating Practices

5. Power take-off (PTO), Blade control switch

This product is capable of amputating hands and feet and throwing objects. Always follow all safety instructions to avoid serious injury or death.

The following instructions are adapted from ANSI standard B71.1-2012. All the language within this ANSI standard applies to this machine; however, due to the application of the standard across many different types of products some statements can seem general or misleading. In these instances, Toro has refined the statement to convey the meaning of the standard while better matching the product this *Operator's*

Manual pertains. Safety information in addition to the instructions found in the ANSI standard below can be found in Toro Riding Mower Safety at the end of this section.

General Operation

- Read, understand, and follow all instructions in the operator's manual and on the machine before starting.
- Do not place hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Allow only responsible adults who are familiar with the instructions to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop the machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing up.
- Be aware of the mower discharge direction and do not point it at anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade(s) when crossing gravel surfaces.
- Do not operate the machine without deflector, discharge cover or entire grass collection system in place and working.
- Be alert, slow down and use caution when making turns. Look behind and to the side before changing directions.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove key before dismounting.
- Turn off blades when not mowing. Stop the engine, wait for all parts to come to a complete stop and remove the key before cleaning the machine, removing the grass catcher or unclogging the discharge chute.
- Operate the machine only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Always wear eye protection when operating the mower.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. Operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.

- Always follow the recommendations for any application of counterweights.
- 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.

Slope Operation

Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

- Do not mow slopes greater than 15 degrees.
- Watch for ditches, holes, rocks, dips, and rises that change the operating angle, as rough terrain could overturn the machine.
- Choose a low ground speed so you will not have to stop while operating on a slope.
- Do not mow slopes when grass is wet. Slippery conditions reduce traction and could cause sliding and loss of control.
- Always keep the drive wheels engaged when going down slopes.
- Reduce speed and use extreme caution on slopes.
- Do not make sudden turns or rapid speed changes.
- Remove or mark obstacles such as rocks, tree limbs, etc. from the mowing area. Tall grass can hide obstacles.
- Avoid sudden starts when mowing uphill because the mower may tip backwards.
- Be aware that loss of traction may occur going downhill. Weight transfer to the front wheels may cause drive wheels to slip and cause loss of braking and steering.
- Always avoid sudden starting or stopping on a slope. If tires lose traction, stop the machine, disengage the blades and proceed slowly off the slope.
- Use extreme care with grass catchers or other attachments. These can change the stability of the machine and cause loss of control.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not mow near drop-offs, ditches, steep banks or water. Wheels dropping over edges can cause rollovers, which may result in serious injury, death or drowning.
- Use a walk behind mower and/or a hand trimmer near drop-offs, ditches, steep banks or water.

Children

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 carry children, even with the blades off. They may fall off and be seriously injured or interfere with safe machine operation.
- Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the mower.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, the end of a fence or other objects that may obscure vision.

Towing Safety

- Do not attach towed equipment except at the hitch point.
- Follow the attachment manufacturer's recommendation for weight limits for towed equipment and towing on slopes. Towed weight must not exceed the weight of the machine, operator, and ballast. Use counterweights or wheel weights as described in the attachment, or in the pulling machine *Operator's Manual*.
- Never allow children or others in or on towed equipment.
- On slopes, the weight of the towed equipment may cause loss of traction, increased risk of rollover, and loss of control. Reduce the towed weight and slow down.
- Stopping distance increases with the weight of the towed load. Travel slowly and allow extra distance to stop.
- Make wide turns to keep the attachment clear of the machine.

Service

Safe Handling of Gasoline:

To avoid personal injury or property damage, use extra care when handling gasoline and other fuels. They are flammable and the vapors are explosive.

- Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- Use only an approved container.
- Never remove the gas cap or add fuel when the engine is running. Allow the engine to cool before refueling.
- Never refuel the machine indoors.
- Never store the machine or fuel container inside where there is an open flame, such as near a water heater or furnace.
- Never fill containers inside a vehicle or on a truck or trailer with a plastic liner. Always place containers on the ground away from your vehicle before filling.

- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until the fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill the fuel tank. Replace gas cap and tighten securely.

General Service:

- Never operate a machine inside a closed area. Engine exhaust contains carbon monoxide, which is an odorless, deadly poison that can kill you.
- Keep nuts and bolts tight, especially the blade attachment bolts. Keep equipment in good condition.
- Never interfere with the intended function of a safety device or to reduce the protection provided by a safety device. Check their proper operation regularly.
- Keep the machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage fuel soaked debris. Allow the machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make any adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturers' recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check for proper brake operation frequently. Adjust and service as required.
- Maintain or replace safety and instruction decals as necessary.
- Use only genuine Toro replacement parts to ensure that original standards are maintained.

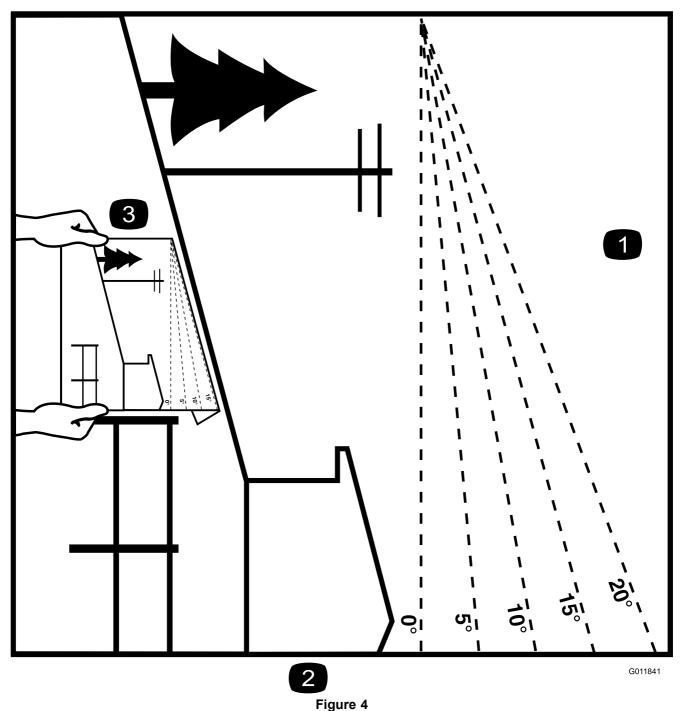
Toro Riding Mower Safety

The following list contains safety information specific to Toro products or other safety information that you must know that may not be included in the ANSI standards.

- Stop the engine, move the motion control levers to neutral and outward to the park position, disengage the blade control switch, remove key before and disconnect spark plug wire(s) performing any service, repairs, maintenance or adjustments.
- Keep hands, feet, hair, and loose clothing away from attachment discharge area, underside of mower and any moving parts while engine is running.

- Do not touch equipment or attachment parts which may be hot from operation. Allow to cool before attempting to maintain, adjust or service.
- 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 battery.
- Use only Toro approved attachments. Warranty may be voided if used with unapproved attachments.
- If loading the machine onto a trailer or truck, use a single, full-width ramp only. The ramp angle should not exceed 15 degrees.

Slope Indicator



This page may be copied for personal use.

- 1. The maximum slope you can safely 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 lost.



93-7009

- 1. Warning—don't operate the mower with the deflector up or removed; keep the deflector in place.
- 2. Cutting/dismemberment hazard of hand or foot, mower blade—stay away from moving parts.

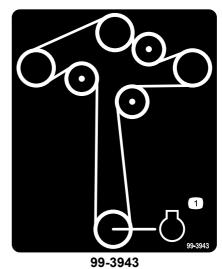


- 114-1606
- 1. Entanglement hazard, belt-keep all guards in place.



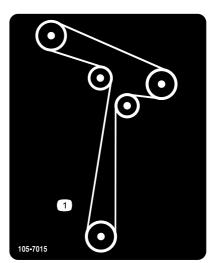
110-6691

- 1. Thrown object hazard—keep bystanders a safe distance from the machine.
- 2. Thrown object hazard, mower—do not operate without the deflector, discharge cover, or grass collection system in place.
- 3. Cutting/dismemberment of hand or foot—stay away from moving parts.

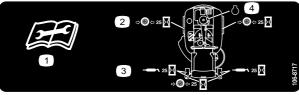


For Models with 50 Inch Decks

1. Engine



105-7015 For Models with 42 Inch Decks

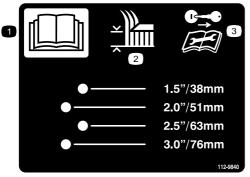


106-8717

- 1. Read the instructions before servicing or performing maintenance.
- 2. Check tire pressure every 25 operating hours.
- 3. Grease every 25 operating hours.
- 4. Engine





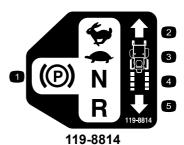


- 112-9840
- 1. Read the Operator's Manual.
- 3. Remove the ignition key and read the instructions before servicing or performing maintenance.
- 2. Height of cut

CALIFORNIA SPARK ARRESTER WARNING

Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements. 117-2718

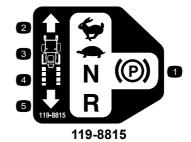
117–2718 Model 74625 only



1. Parking position

4. Neutral
 5. Reverse

- 2. Fast
- 3. Slow



- 1. Parking position
 - Fast
- 3. Slo

2.

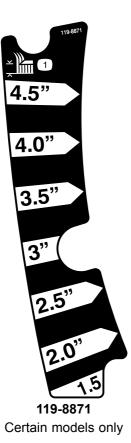
4. Neutral

Slow





1. Height-of-cut

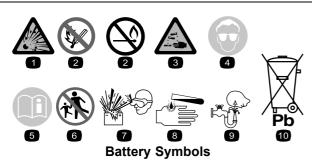


1. Bypass lever position for pushing the machine 2. Bypass lever position for operating the machine



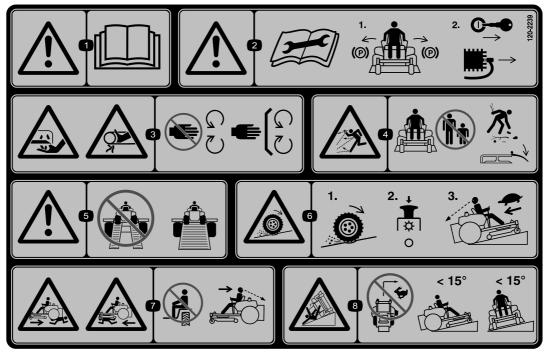
1. Indicates the blade is identified as a part from the original machine manufacturer.

1. Height-of-cut



Some or all of these symbols are on your battery

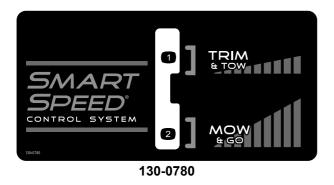
1.	Explosion hazard	6.	Keep bystanders a safe distance from the battery.
2.	No fire, open flame, or smoking.	7.	Wear eye protection; explosive gases can cause blindness and other injuries
3.	Caustic liquid/chemical burn hazard	8.	Battery acid can cause blindness or severe burns.
4.	Wear eye protection	9.	Flush eyes immediately with water and get medical help fast.
5.	Read the <i>Operator's</i> Manual.	10.	Contains lead; do not discard.



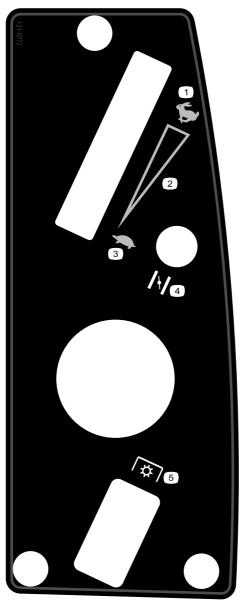
120-2239

- 1. Warning—read the Operator's Manual.
- 2. Warning—read the instructions before servicing or performing maintenance; move the motion control levers to the park (brake) position, remove the ignition key and disconnect the spark plug wire.
- 3. Cutting/dismemberment hazard, mower blade; entanglement hazard, belt—stay away from moving parts, keep all guards and shields in place.
- Thrown object hazard—keep bystanders a safe distance from the machine, pick up debris before operating, keep deflector in place.

- 5. Warning—do not use split ramps, use a full ramps when transporting machine.
- Loss of traction/control hazard, slopes—loss of traction/control on a slope, disengage the blade control switch (PTO), proceed off the slope slowly.
- 7. Crushing/dismemberment hazard of bystanders, reversing; crushing/dismemberment hazard of bystanders—do not carry passengers, look behind and down when reversing.
- 8. Tipping hazard—do not mow slopes greater than 15 degrees, avoid sudden and sharp turns while on slopes.



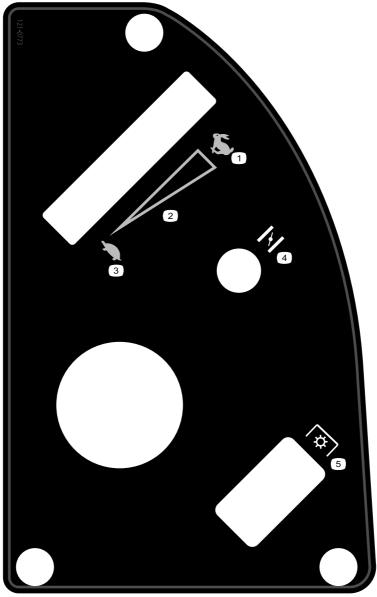
1. Low speed—trimming and 2. High speed—mowing and transport



121-0772 Models 74625 and 74626 only

- 1. Fast
- 2. Continuous variable setting
- 3. Slow

- 4. Choke
- 5. Power take-off (PTO), Blade control switch



121-0773 Models 74631 and 74632 only

- 1. Fast
- 2. Continuous variable setting

- 4. Choke
- 5. Power take-off (PTO), Blade control switch

3. Slow

Product Overview

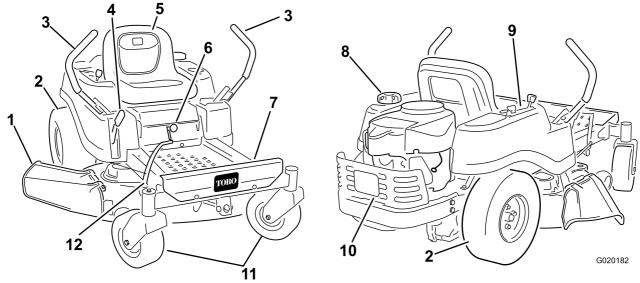
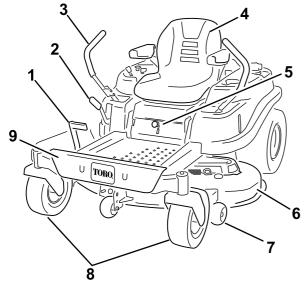


Figure 5 Models 74625 and 74626

- 1. Deflector
- Rear drive wheel 2.
- 3. Motion control levers
- Height of cut lever Operator seat 5.
- 6. Smart Speed[™] lever
- 7. Footrest
- 8. Fuel tank cap
- 9. Control panel
- 10. Engine guard
- Front caster wheel 11.
- 12. Foot assist lever (certain models only)



4.

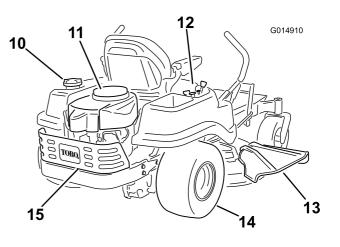
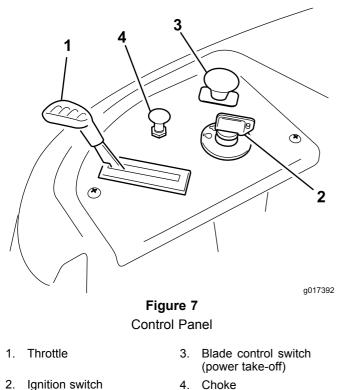


Figure 6 Models 74631, and 74632

- 1. Foot assist lever (certain models only)
- 2. Height of cut lever
- Motion control levers 3.
- 4. Operator seat (armrests optional)
- 5. Smart Speed[™] lever
- Mower deck 6.
- 7. Anti-scalp roller
- 8. Front caster wheel
- 9. Footrest
- 10. Gas tank cap
- 11. Engine
- 12. Control panel
- 13. Deflector
- Rear drive wheel 14.
- 15. Engine guard

Controls

Become familiar with all of the controls in Figure 5, Figure 6, and Figure 7 before you start the engine and operate the machine.



Ignition Switch

The ignition switch has three positions, Off, Run and Start. The key will turn to Start and move back to Run upon release. Turning the key to the Off position will stop the engine; however, always remove the key when leaving the machine to prevent someone from accidentally starting the engine (Figure 7).

Throttle Control

The throttle controls the engine speed and it has a continuous variable setting from Slow to Fast (Figure 7).

Choke Control

Pull up on the Choke control until it stops to choke the engine (Figure 7). Push down on the Choke control for normal engine operation

Blade Control Switch (Power Take-Off)

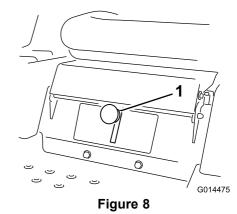
The blade control switch, represented by a power take-off (PTO) symbol, engages and disengages power to the mower blades (Figure 7).

Motion Control Levers and Park Position

The motion control levers are speed sensitive controls of independent wheel motors. Moving a lever forward or backward turns the wheel on the same side forward or in reverse; wheel speed is proportional to the amount the lever is moved. Move the control levers outward from the center to the park position and exit the machine (Figure 19). Always position the motion control levers into the park position when you stop the machine or leave it unattended.

Smart Speed[™] Control System Lever

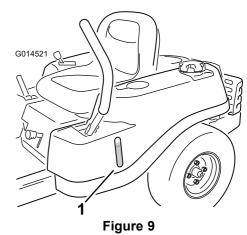
The Smart Speed[™] Control System lever, located below the operating position, gives the operator a choice to drive the machine at two speed ranges, high and low (Figure 8).



1. Smart speed lever

Fuel Window

The fuel window located on the left hand side of the machine can be used to verify the presence of gasoline in the tank (Figure 9).



1. Fuel presence window

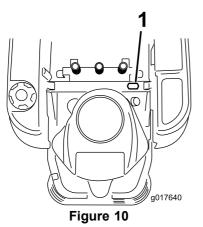
Height-of-Cut Lever

The height of cut lever allows the operator to lower and raise the deck from the seated position. When the lever is moved up, toward the operator the deck is raised from the ground and when moved down, away from the operator it is lowered toward the ground. Only adjust the height of cut while machine is not moving (Figure 23).

Hour Meter

Models 74626 and 74632

The hour meter records the number of hours when the operator is in the seat and the ignition switch is in the ON position (Figure 10).



Operation

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

Think Safety First

Operating Safety

Please carefully read all of the safety instructions and decals in the safety section. Knowing this information could help you, your family, pets or bystanders avoid injury.

A DANGER

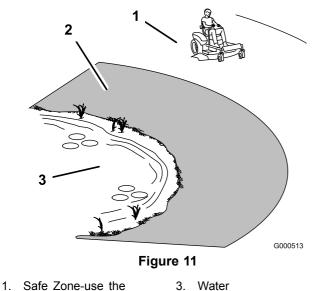
Mowing on wet grass or steep slopes can cause sliding and loss of control.

Wheels dropping over edges can cause rollovers, which may result in serious injury, death or drowning.

A loss of traction is a loss of steering control.

To avoid loss of control and possibility of rollover:

- Do not mow near drop-offs or near water.
- Do not mow slopes greater than 15 degrees.
- Reduce speed and use extreme caution on slopes.
- When mowing slopes, gradually work from lower to higher areas on the incline.
- Avoid sudden turns or rapid speed changes.
- Turn up, into an incline when changing directions on slopes. Turning down the slope reduces traction.
- Attachments change the handling characteristics of the machine. Use extra caution when using attachments with the machine.



- TimeCutter here 2. Use walk behind mower
- and/or hand trimmer near drop-offs and water.

Fuel Safety

In certain conditions, gasoline is extremely flammable and highly explosive. A fire or explosion from gasoline can burn you and others and can damage property.

- Fill the fuel tank outdoors, in an open area, when the engine is cold. Wipe up any gasoline that spills.
- Never fill the fuel tank inside an enclosed trailer.
- Do not fill the fuel tank completely full. Add gasoline to the fuel tank until the fuel reaches the base of the filler neck. This empty space in the tank allows gasoline to expand.
- Never smoke when handling gasoline, and stay away from an open flame or where gasoline fumes may be ignited by a spark.
- Store gasoline in an approved container and keep it out of the reach of children. Never buy more than a 30-day supply of gasoline.
- Do not 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 the gasoline vapors. A fire or explosion from gasoline can burn you and others and can damage property.

- Always place gasoline containers on the ground away from your vehicle before filling.
- Do not fill gasoline 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 gasoline dispenser nozzle.
- If a gasoline 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.

A WARNING

Gasoline is harmful or fatal if swallowed. Long-term exposure to vapors can cause serious injury and illness.

- Avoid prolonged breathing of vapors.
- Keep face away from nozzle and gas tank or conditioner opening.
- Keep gas away from eyes and skin.

Understanding the Safety Interlock System

A WARNING

If 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.

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

- The blades are disengaged.
- The motion control levers are in the park position.

The safety interlock system also is designed to stop the engine whenever the control levers are out of the park position and you rise from the seat.

Before Starting

Adding Fuel

- For best results, use only clean, fresh (less than 30 days old), unleaded gasoline with an octane rating of 87 or higher ((R+M)/2 rating method).
- Ethanol: Gasoline with up to 10% ethanol (gasohol) or 15% MTBE (methyl tertiary butyl ether) by volume is acceptable. Ethanol and MTBE are not the same. Gasoline with 15% ethanol (E15) by volume is not approved for use. Never use gasoline that contains more than 10% ethanol by volume, such as E15 (contains 15% ethanol), E20 (contains 20% ethanol), or E85 (contains up to 85% ethanol). Using unapproved gasoline may cause performance problems and/or engine damage which may not be covered under warranty.
- Do not use gasoline containing methanol.
- Do not store fuel either in the fuel tank or fuel containers over the winter unless a fuel stabilizer is used.
- Do not add oil to gasoline.

Using Stabilizer/Conditioner

Use a fuel stabilizer/conditioner in the machine to provide the following benefits:

- Keeps gasoline fresh during storage of 90 days or less. For longer storage it is recommended that the fuel tank be drained.
- Cleans the engine while it runs
- Eliminates gum-like varnish buildup in the fuel system, which causes hard starting

Important: Do not use fuel additives containing methanol or ethanol.

Add the correct amount of gas stabilizer/conditioner to the gas.

Note: A fuel stabilizer/conditioner is most effective when mixed with fresh gasoline. To minimize the chance of varnish deposits in the fuel system, use fuel stabilizer at all times.

Filling the Fuel Tank

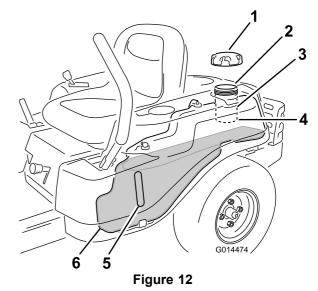
Make sure the engine is shut off and the motion controls are in the park position. Tank maximum capacity is 2.9 gallons.

Important: Do Not overfill fuel tank. Fill the fuel tank to the bottom of the filler neck. The empty space in the tank allows the fuel to expand. Overfilling may result in fuel leakage or damage to the engine or emissions system.

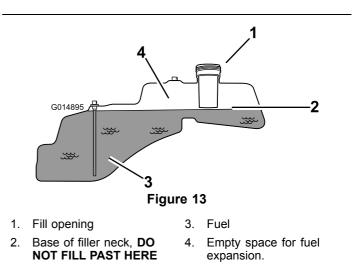
1. Clean around the fuel tank cap and remove the cap.

Note: You can use the fuel window to verify the presence of gasoline before filling the tank (Figure 12).

2. Slowly add regular, unleaded gasoline until the fuel reaches the base of the filler neck (Figure 12).



- 1. Fuel tank cap
- 4. Base of filler neck, DO NOT FILL PAST HERE Fuel window
- 2. Fill opening 3.
 - Filler neck



5.

Important: Do Not overfill fuel tank. Fill the fuel tank to the bottom of the filler neck. The empty space in the tank allows the fuel to expand. Overfilling may result in fuel leakage or damage to the engine.

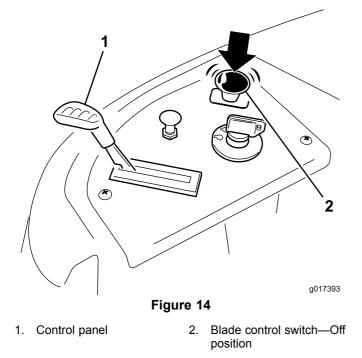
Install the fuel tank cap securely and tighten until it 3. "clicks". Wipe up any gasoline that may have spilled.

Checking the Engine Oil Level

Before you start the engine and use the machine, check the oil level in the engine crankcase; refer to Checking the Oil Level in the Engine Maintenance section.

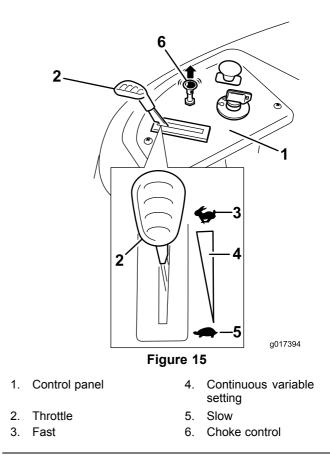
Starting the Engine

- 1. Sit down on the seat and move the motion controls outward to the park position.
- 2. Disengage the blades by moving the blade control switch to Off (Figure 14)



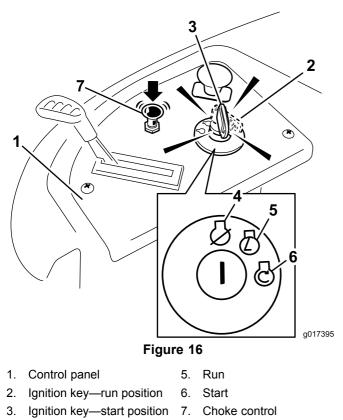
3. Pull up on the Choke control before starting a cold engine (Figure 15).

Note: A warm or hot engine may not require choking.



4. Turn the ignition key to Start to energize the starter. When the engine starts, release the key (Figure 16).

Important: Do not engage the starter for more than 10 seconds at a time. If the engine fails to start, allow a 60 second cool-down period between attempts. Failure to follow these instructions can damage the starter motor.



- 4. Off
- 5. After the engine starts, push down on the Choke control (Figure 16). If the engine stalls or hesitates, pull up on the Choke control and let the engine run for a few seconds. Then push down on the Choke control. Repeat this as required.

Operating the Blades

The blade control switch, represented by a power take-off (PTO) symbol, engages and disengages power to the mower blades. This switch controls power to any attachments that draw power from the engine, including the mower deck and cutting blades.

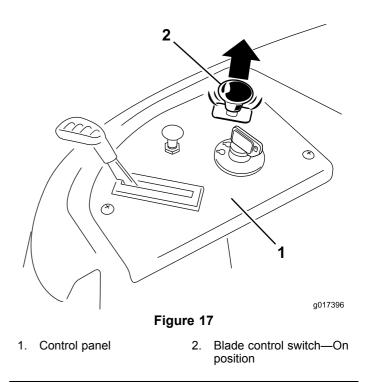
Engaging the Blades

Important: Do not engage the blades when parked in tall grass. Belt or clutch damage can occur.

- 1. Release pressure on the motion control levers and place the machine in neutral.
- 2. Move the throttle to the Fast position.

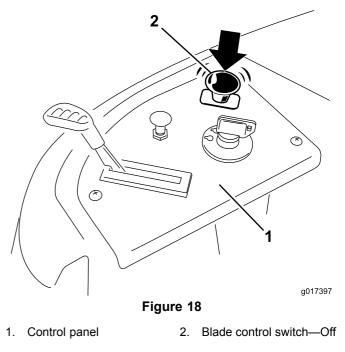
Note: Always engage the blades with the throttle in the Fast position.

3. Pull up on the blade control switch to move it to the On position and engage the blades (Figure 17).



Disengaging the Blades

Push down on the blade control switch to move it to the Off position and disengage the blades (Figure 18).



Testing the Safety Interlock System

Test the safety interlock system before you use the machine each time. If the safety system does not operate as described below, have an Authorized Service Dealer repair the safety system immediately.

- 1. While sitting on the seat, with the control levers in park position, and move the blade control switch to On. Try starting the engine; the engine should not crank.
- 2. While sitting on the seat, move the blade control switch to Off. Move either motion control lever to the center, unlocked position. Try starting the engine; the engine should not crank. Repeat with the other motion control lever.
- 3. While sitting on the seat, move the blade control switch to Off, and lock the motion control levers in the park position. Start the engine. While the engine is running, engage the blade control switch, and rise slightly from the seat; the engine should stop.
- 4. While sitting on the seat, move the blade control switch to Off, and lock the motion control levers in the park position. Start the engine. While the engine is running, move the motion control levers to the center, unlocked position, engage the blade control switch, and rise slightly from the seat; the engine should stop.

Stopping the Engine

- 1. Disengage the blades by moving the blade control switch to Off (Figure 18).
- 2. Move the throttle lever to between the Fast position (Figure 15).
- 3. Turn the ignition key to Off (Figure 16) and remove the key.

Driving

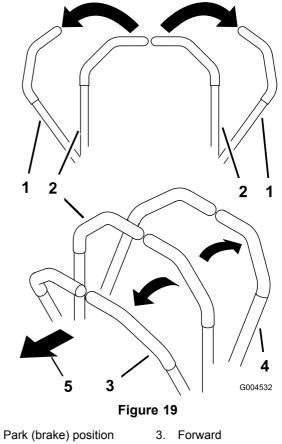
Driving the machine benefits from an understanding of what zero turn radius mower means. The drive wheels turn independently, powered by hydraulic motors on each axle; hence one side can turn in reverse while the other turns forward causing the machine to spin rather than turn. This vastly improves the machine maneuverability but may require some adjustment if the operator is unfamiliar.

A WARNING

The machine can spin very rapidly. The operator 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.

The throttle control regulates the engine speed as measured in rpm (revolutions per minute). Placing the throttle control in the Fast position can be best for performance. For most applications, operating in the full throttle position is desirable.

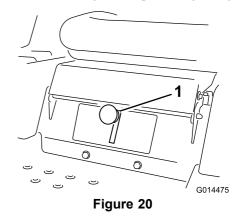


2. Center unlock position 4. Backward

1.

Using the Smart Speed[™] Control System

The Smart Speed[™] Control System lever, located below the operating position (Figure 20), gives the operator a choice to drive the machine at two ground speed ranges, high and low.



1. Smart speed lever

To change speeds:

1. Move the motion control levers to neutral and outward to the park position; disengage the blade control switch.

A WARNING

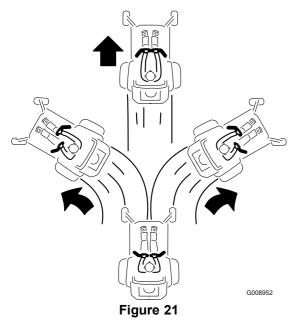
Removing your hands from the motion control levers while the machine is in motion can result in a loss of control causing harm to you or bystanders.

Always stop the machine and move the motion control levers to the park position before adjusting the Smart SpeedTM Control System.

2. Adjust the lever to the desired position.

Forward

- 1. Move the levers to the center, unlocked position.
- 2. To go forward, slowly push the motion control levers forward (Figure 19).



To go straight, apply equal pressure to both motion control levers (Figure 19).

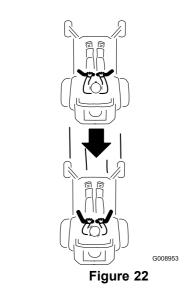
To turn, release pressure on the motion control lever toward the direction you want to turn (Figure 19).

The farther you move the motion control levers in either direction, the faster the machine will move in that direction.

To stop, pull the motion control levers to neutral.

Backward

- 1. Move the levers to the center, unlocked position.
- 2. To go backward, look behind you and down as you slowly pull the motion control levers rearward (Figure 22).



To go straight, apply equal pressure to both motion control levers (Figure 22).

To turn, release the pressure on the motion control lever toward the direction you want to turn.

To stop, push the motion control levers to neutral.

Stopping the Machine

To stop the machine, move the motion control levers to neutral and outward to the park position, disengage the blade control switch, ensure the throttle is in the fast position, and turn the ignition key to Off. Remember to remove the key from the ignition switch.

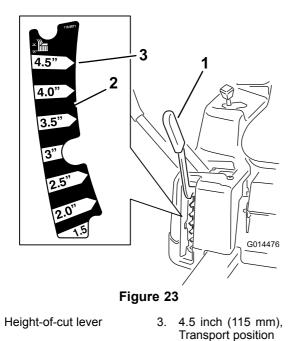
A WARNING

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

Always remove the ignition key and move the motion control levers outward to the park position when leaving the machine unattended, even if just for a few minutes.

Adjusting the Height of Cut

Height-of-cut is controlled by the lever located to the right of the operating position (Figure 23).



2. Height-of-cut positions

1.

- 1. Pull up and inward on the lever to move it to the desired cutting position.
- 2. Once at the desired cutting position, slowly lower the lever until it engages the position.

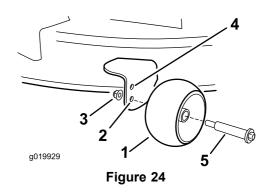
The transport position is the highest height-of-cut position or cutting height **4.5** inch [115 mm] (Figure 23).

Adjusting the Anti-Scalp Rollers (For 42 inch Mower Decks)

Whenever you change the height-of-cut, it is recommended to adjust the height of the anti-scalp rollers.

Note: Adjust the anti-scalp rollers so the rollers do not touch the ground in normal, flat mowing areas.

- 1. Disengage the blade control switch (PTO), move the motion control levers to the neutral lock position and set the parking brake.
- 2. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Adjust the anti-scalp rollers to one of the following positions:
 - Upper hole—use this position with the mower deck in the 63mm (2-1/2 inch) and below height-of-cut positions (Figure 24).
 - Lower hole—use this position with the mower deck in the 76mm (3 inch) and above height-of-cut positions (Figure 24).



- 1. Anti-scalp roller
- Upper hole—the mower deck in the 63mm (2-1/2 inch) and below height-of-cut positions
- 5. Bolt
- deck in the 76mm (3 inch) and above height-of-cut positions

Lower hole-the mower

3. Flange Nut

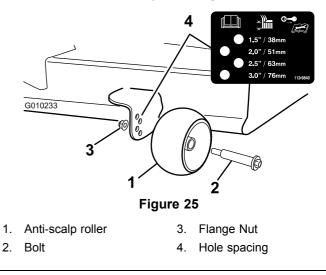
2

Adjusting the Anti-Scalp Rollers (For 50 inch Mower Decks)

Whenever you change the height-of-cut, it is recommended to adjust the height of the anti-scalp rollers.

Note: Adjust the anti-scalp rollers so the rollers do not touch the ground in normal, flat mowing areas.

- 1. Disengage the blade control switch (PTO), move the motion control levers to the neutral lock position and set the parking brake.
- 2. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Adjust the anti-scalp rollers as shown in Figure 25 to match the closest height-of-cut position.

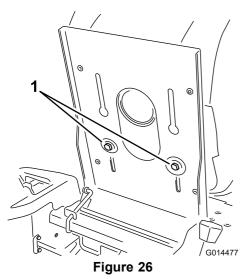


Positioning the Seat

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

Models 74625, 74626, and 74631

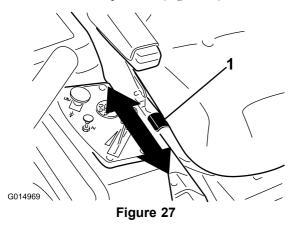
1. Raise the seat and loosen the adjustment bolts just enough that seat can move (Figure 26).



- 1. Adjustment bolt
- 2. Move the seat to the desired position and tighten the bolts.

Model 74632

While sitting in the operator's position, raise the seat adjustment lever slightly and move the seat forward or backward to the desired position (Figure 27).

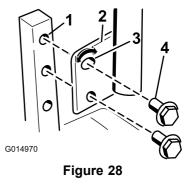


Adjusting the Motion Control Levers

Adjusting the Height

The motion control levers can be adjusted higher or lower for maximum operator comfort.

- 1. Remove the 2 bolts holding the control lever to the control arm shaft (Figure 28).
- 2. Move the control lever to the next set of holes. Secure the lever with the 2 bolts (Figure 28).



- 1. Control arm shaft3. Slotted, upper hole
 - Control lever 4. Bolt
- 3. Repeat the adjustment for the opposite control lever.

Adjusting the Tilt

2.

The motion control levers can be tilted fore or aft for maximum operator comfort.

- 1. Loosen the upper bolt holding the control lever to the control arm shaft.
- 2. Loosen the lower bolt just enough to pivot the control lever fore or aft (Figure 28). Tighten both bolts to secure the control in the new position.
- 3. Repeat the adjustment for the opposite control lever.

Pushing the Machine by Hand

Important: Always push the machine by hand. Never tow the machine because damage may occur.

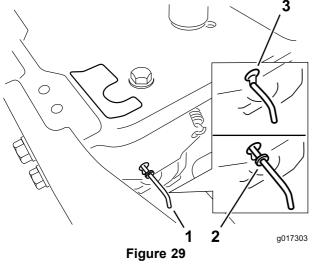
This machine has an electric brake mechanism and to push the machine the ignition key needs to be in the Run position. The battery needs to be charged and functioning for the electric brake to be disengage.

To Push the Machine

- 1. Park the machine on a level surface and disengage the blade control switch.
- 2. Move the motion control levers outward to park position, stop the engine, and wait for all moving parts to stop before leaving the operating position.

- 3. Locate the bypass levers on the frame on both sides of the engine.
- 4. Move the bypass levers forward through the key hole and down to lock them in place as shown in Figure 29 . Ensure this is done for each lever.
- 5. Move the motion control levers inward to the neutral position and turn the ignition key to the run position. Do not start the machine.

The machine is now able to be pushed by hand.



- 1. Bypass lever location
- 3. Lever position for pushing the machine
- 2. Lever position for operating the machine
- 6. When finished, ensure the key has been returned to the Stop position to avoid draining the battery charge.

If the machine fails to move the electric brake may still be engaged. If necessary the electric brake can be released manually. Refer to the Releasing the Electric Brake (page 46) procedure in Drive Maintenance.

To Operate the Machine

Move the bypass levers rearward through the key hole and down to lock them in place as shown in Figure 29. Ensure this is done for each lever.

Grass Deflector

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

A DANGER

Without the grass deflector, discharge cover, or 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 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.
- Never try to clear discharge area or mower blades unless you move the blade control switch to Off and rotate the ignition key to Off. Also remove the key and pull the wire off the spark plug(s).

Operating Tips

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 by uncut grass. Always try to have one side of the mower free from uncut grass, which allows air to be drawn into the mower.

Using the Smart Speed[™] Control System

The Smart SpeedTM Control System lever, located below the operating position, gives the operator a choice to drive the machine at two speed ranges, high and low. An operator can benefit from the lower speed setting when maneuvering the machine in tight spaces or operating around delicate landscapes. The low setting can also be used to operate the machine at a high throttle setting and blade speed while still being able to reduce ground speed to increase quality of cut.

Cutting a Lawn for the First Time

Cut grass slightly longer than normal to ensure that the cutting height of the mower 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 six inches tall, you may want to cut the lawn twice to ensure an acceptable quality of cut.

Cut 1/3 of the Grass Blade

It is best to cut only about 1/3 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.

Mowing Direction

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

Mow at Correct Intervals

Normally, mow every four days. But remember, grass grows at different rates at different times. So to maintain the same cutting height, which is a good practice, 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 two days later at a lower height setting.

Avoid Cutting Too Low

If the cutting width of the mower is wider than the mower you previously used, raise the cutting height to ensure that uneven turf is not cut too short.

Long Grass

If the grass is ever allowed to grow slightly longer than normal, or if it contains a high degree of moisture, raise the cutting height higher than usual and cut the grass at this setting. Then cut the grass again using the lower, normal setting.

When Stopping

If the machine's forward motion must be stopped 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.

Keep the Underside of the Mower Clean

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

Blade Maintenance

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 cutter blades daily 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.

Maintenance

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

Recommended Maintenance Schedule(s)

Maintenance Service Interval	Maintenance Procedure
After the first 8 hours	Change the engine oil.
Before each use or daily	 Check the safety interlock system. Check the engine oil level. Clean the air intake screen. Check the cutting blades. Inspect the grass deflector for damage
After each use	Clean the mower deck housing.
Every 25 hours	 Grease all lubrication points. Check tire pressure. Check the belts for wear/cracks.
Every 100 hours	 Service the paper element. (more often in dusty, dirty conditions) Change the engine oil. (more often in dusty, dirty conditions) Check the spark plug(s). Replace the emissions filter (model 74625 only). Replace the in-line fuel filter
Every 200 hours	 Replace the paper element. (more often in dusty, dirty conditions) Change the oil filter. (more often in dusty, dirty conditions)
Before storage	 Charge the battery and disconnect battery cables. Perform all maintenance procedures listed above before storage. Paint any chipped surfaces.

Important: Refer to your engine operator's manual for additional maintenance procedures.

ACAUTION

If you leave the key in the ignition switch, someone could accidently start the engine and seriously injure you or other bystanders.

Remove the key from the ignition and disconnect the wire from the spark plug before you do any maintenance. Set the wire aside so that it does not accidentally contact the spark plug.

Premaintenance Procedures

Raising the Seat

Make sure the motion control levers are locked in the park position. Lift the seat forward.

The following components can be accessed by raising the seat:

- Serial plate
- Service decal
- Seat adjustment bolts
- Fuel filter
- Battery and battery cables

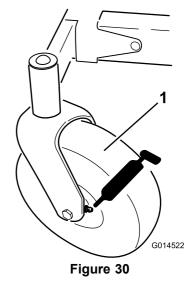
Lubrication

Greasing the Bearings

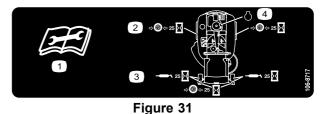
Service Interval: Every 25 hours—Grease all lubrication points.

Grease Type: No. 2 General Purpose Lithium Base Grease

- 1. Park the machine on a level surface and disengage the blade control switch.
- 2. Move the motion control levers outward to the park position, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Clean the grease fittings (Figure 30 and Figure 31) with a rag. Make sure to scrape any paint off of the front of the fitting(s).



1. Front caster tire



Located on the seat pan underside

- Read the instructions before servicing or performing maintenance.
 Grease every 25 operating hours.
- 2. Check tire pressure every 4. Engine 25 operating hours.
- 4. Connect a grease gun to each fitting (Figure 30 and Figure 31). Pump grease into the fittings until grease begins to ooze out of the bearings.
- 5. Wipe up any excess grease.

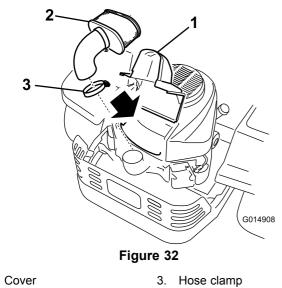
Engine Maintenance

Servicing the Air Cleaner

Note: Service the air cleaner more frequently (every few hours) if operating conditions are extremely dusty or sandy.

Removing the Element

- 1. Park the machine on a level surface and disengage the blade control (PTO).
- 2. Move the motion control levers to the brake position, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Clean around the air cleaner cover to prevent dirt from getting into the engine and causing damage. Lift the cover and remove the hose clamp securing the air cleaner assembly to the engine (Figure 32).
- 4. Loosen the hose clamp and remove the paper element (Figure 32).



2. Paper element

1.

Cleaning the Element

Service Interval: Every 100 hours—Service the paper element. (more often in dusty, dirty conditions)

> Every 200 hours/Yearly (whichever comes first)—Replace the paper element. (more often in dusty, dirty conditions)

- 1. Lightly tap the element on a flat surface to remove dust and dirt.
- 2. Inspect the element for tears, an oily film, and damage to the seal.

Important: Never clean the paper element with pressurized air or liquids, such as solvent, gas, or kerosene. Replace the paper element if it is damaged or cannot be cleaned thoroughly.

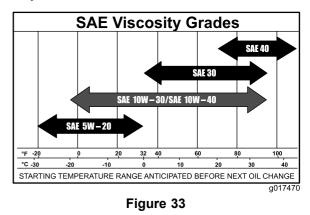
Servicing the Engine Oil

Oil Type: Detergent oil (API service SF, SG, SH, SJ, or SL)

Crankcase Capacity:

Model	Oil filter not removed	Oil filter removed
74626, 74631 and 74632	61 ounces (1.8 l)	70 ounces (2.1 l)
74625	51 ounces (1.5 l)	57 ounces (1.7 l)

Viscosity: See the table below.



Note: Using multi grade oils (5W-20, 10W-30, and 10W -40) will increase oil consumption. Check oil level more frequently when using them.

Checking the Engine Oil Level

Service Interval: Before each use or daily

Note: Check the oil when the engine is cold.

A WARNING

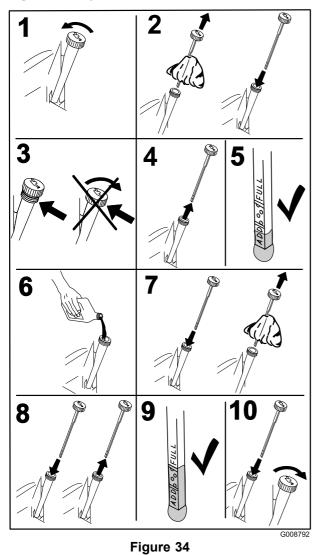
Contact with hot surfaces may cause personal injury.

Keep hands, feet, face, clothing and other body parts away the muffler and other hot surfaces.

Important: Do not overfill the crankcase with oil because damage to the engine may result. Do not run engine with oil below the low mark because the engine may be damaged.

1. Park the machine on a level surface, disengage the blade control switch, stop the engine, engage parking brake, and remove the key.

- 2. Make sure the engine is stopped, level, and is cool so the oil has had time to drain into the sump.
- 3. To keep dirt, grass clippings, etc., out of the engine, clean the area around the oil fill cap/dipstick before removing it.
- 4. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position (Figure 34).



Changing the Engine Oil

Service Interval: After the first 8 hours—Change the engine oil.

Every 100 hours—Change the engine oil. (more often in dusty, dirty conditions)

Note: Dispose of the used oil at a recycling center.

- 1. Park the machine so that the drain side is slightly lower than the opposite side to assure the oil drains completely.
- 2. Disengage the PTO, move the motion control levers to the neutral locked position and set the parking brake.

3. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position (Figure 35).

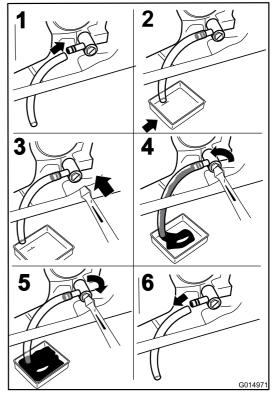
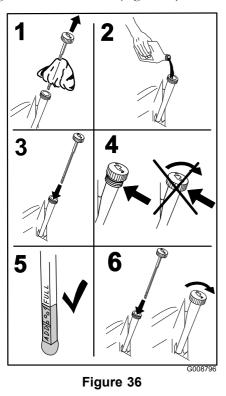


Figure 35

4. Slowly pour approximately 80% of the specified oil into the filler tube and slowly add the additional oil to bring it to the **Full** mark (Figure 36).



Changing the Engine Oil Filter

Service Interval: Every 200 hours—Change the oil filter. (more often in dusty, dirty conditions)

Note: Change the engine oil filter more frequently when operating conditions are extremely dusty or sandy.

- 1. Drain the oil from the engine; refer to Changing the Engine Oil.
- 2. Change the engine oil filter (Figure 37).

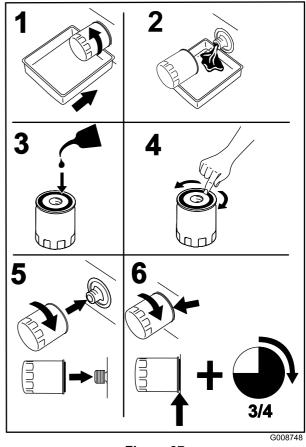


Figure 37

Note: Ensure the oil filter gasket touches the engine and then an extra 3/4 turn is completed.

3. Fill the crankcase with the proper type of new oil; refer to Changing the Oil.

Servicing the Spark Plug

Service Interval: Every 100 hours—Check the spark plug(s).

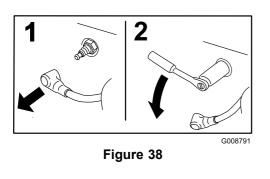
Make sure the air gap between the center and side electrodes is correct before installing the spark plug. Use a spark plug wrench for removing and installing the spark plug(s) and a gapping tool/feeler gauge to check and adjust the air gap. Install a new spark plug(s) if necessary.

Type: NGK BPR4ES (or equivalent)

Air Gap: 0.030 inch (0.76 mm)

Removing the Spark Plug

- 1. Disengage the PTO, move the motion control levers to the neutral locked position and set the parking brake.
- 2. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.



Note: Due to the deep recess around the spark plug, blowing out the cavity with compressed air is usually the most effective method for cleaning. The spark plug is most accessible when the blower housing is removed for cleaning.

Checking the Spark Plug

Important: Never clean the spark plug(s). Always replace the spark plug(s) when it has: a black coating, worn electrodes, an oily film, or cracks.

If you see light brown or gray on the insulator, the engine is operating properly. A black coating on the insulator usually means the air cleaner is dirty.

Set the gap to 0.030 inches (0.76 mm).

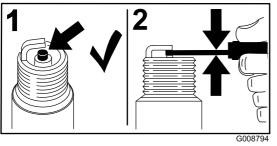
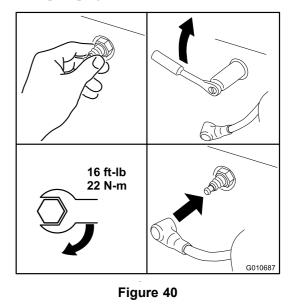


Figure 39

Installing the Spark Plug

Tighten the spark plug(s) to 16 ft-lb (22 N-m).



Cleaning the Cooling System

Clean the air intake screen from grass and debris before each use.

- 1. Disengage the blade control switch and move the control levers to the neutral locked position and apply the parking brake.
- 2. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Remove the air intake screen, air cleaner cover, and fan housing.
- 4. Clean debris and grass from the parts.
- 5. Install the air intake screen, air cleaner cover, and fan housing.

Fuel System Maintenance

A DANGER

In certain conditions, gasoline is extremely flammable and highly explosive. A fire or explosion from gasoline can burn you and others and can damage property.

- Perform any fuel related maintenance when the • engine is cold. Do this outdoors in an open area. Wipe up any gasoline that spills.
- Never smoke when draining gasoline, and stay • away from an open flame or where a spark may ignite the gasoline fumes.

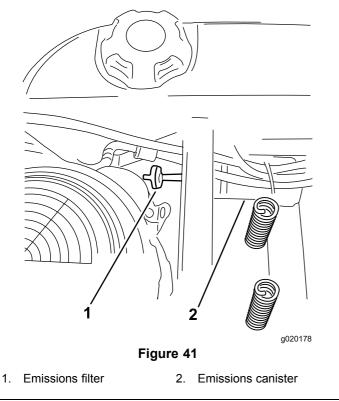
Servicing the Emissions Filter

Service Interval: Every 100 hours/Yearly (whichever comes first)

Model 74625 only

Note: CARB compliant model 74625 is equipped with a maintenance free emissions canister and has an emissions filter to be serviced.

The filter is located behind the operators seat, next to the engine. Pull the filter off of the hose and replace with a new filter.

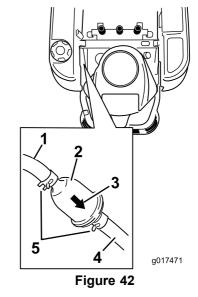


Replacing the In-line Fuel Filter

Service Interval: Every 100 hours—Replace the in-line fuel filter

Never install a dirty filter if it is removed from the fuel line.

- 1. Park the machine on a level surface and disengage the blade control switch.
- 2. Move the motion control levers outward to the park position, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- Locate the fuel filter on the side of the engine as shown 3. in Figure 42.



- 1. Fuel line from tank
- 4. Fuel line to engine Hose clamp 5.
- 2. In-line Fuel filter 3.
 - Flow direction arrow
- Squeeze the ends of the hose clamps together and slide 4. them away from the filter (Figure 42).
- Remove the filter from the fuel lines. 5.
- Install a new filter with the flow direction arrow coming 6. from the fuel tank and pointing to the engine. Move the hose clamps close to the filter (Figure 42) to secure it in place.

Electrical System Maintenance

WARNING

CALIFORNIA Proposition 65 Warning

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

Charging the Battery

Removing the Battery

A WARNING

Battery terminals or metal tools could short against metal machine components causing sparks. Sparks can cause the battery gasses to explode, resulting in personal injury.

- When removing or installing the battery, do not allow the battery terminals to touch any metal parts of the machine.
- Do not allow metal tools to short between the battery terminals and metal parts of the machine.
 - 1. Park the machine on a level surface and disengage the blade control switch.
 - 2. Move the motion control levers outward to the park position, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
 - 3. Raise the seat to access the battery.
 - 4. Disconnect the negative (black) ground cable from the battery post (Figure 43). Retain all fasteners.

A WARNING

Incorrect battery cable routing could damage the machine and cables causing sparks. Sparks can cause the battery gasses to explode, resulting in personal injury.

- Always disconnect the negative (black) battery cable before disconnecting the positive (red) cable.
- Always connect the positive (red) battery cable before connecting the negative (black) cable.

- 5. Slide the rubber cover up the positive (red) cable. Disconnect the positive (red) cable from the battery post (Figure 43). Retain all fasteners.
- 6. Remove the battery hold-down (Figure 43) and lift the battery from the battery tray.

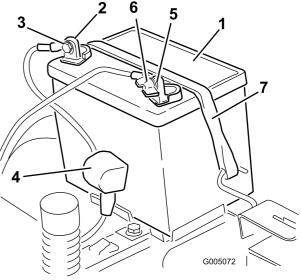


Figure 43

7.

5. Negative battery post

Battery hold-down

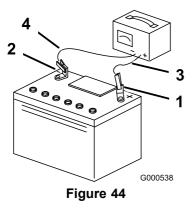
6. Wing nut, washer, and bolt

- 1. Battery
- 2. Positive battery post
- 3. Bolt, washer, and nut
- 4. Terminal boot

Charging the Battery

Service Interval: Before storage—Charge the battery and disconnect battery cables.

- 1. Remove the battery from the chassis; refer to Removing the Battery.
- 2. Charge the battery for a minimum of 1 hour at 6 to 10 amps. Do not overcharge the battery.
- 3. When the battery is fully charged, unplug the charger from the electrical outlet, then disconnect the charger leads from the battery posts (Figure 44).



Positive battery post 1. Negative battery post

2.

3. Red (+) charger lead

4. Black (-) charger lead

Note: Do not run the machine with the battery disconnected, electrical damage may occur.

Installing the Battery

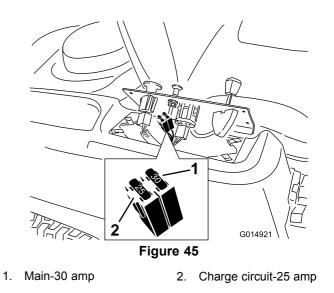
- Position the battery in the tray (Figure 43). 1.
- 2. Install the positive (red) battery cable to the positive (+) battery terminal using the fasteners removed previously.
- Install the negative battery cable to the negative (-) 3. battery terminal using the fasteners removed previously.
- Slide the red terminal boot onto the positive (red) 4. battery post.
- Secure the battery with the hold-down (Figure 43). 5.
- 6. Lower the seat.

Servicing the Fuses

The electrical system is protected by fuses. It requires no maintenance; however, if a fuse blows, check the component/circuit for a malfunction or short.

Fuse:

- Main F1-30 amp, blade-type
- Charge Circuit F2-25 amp, blade-type
- 1. Remove the screws securing the control panel to the machine. Retain all fasteners
- Lift the control pane up to access the main wiring 2. harness and fuse block (Figure 45).
- To replace a fuse, pull out on the fuse to remove it 3. (Figure 45).



Return the control panel to its original position. Use 4. the screws removed previously to secure the panel to the machine.

Drive System Maintenance

2. Rotate the shaft forward to release the brake.

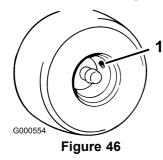
Checking the Tire Pressure

Service Interval: Every 25 hours-Check tire pressure.

Maintain the air pressure in the front and rear tires as specified. Uneven tire pressure can cause uneven cut. Check the pressure at the valve stem (Figure 46). Check the tires when they are cold to get the most accurate pressure reading.

Refer to the maximum pressure suggested by the tire manufacturer on the sidewall of the caster wheel tires.

Inflate the rear drive wheel tires to 12 psi.

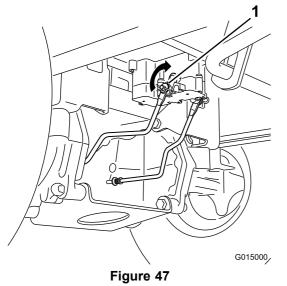


1. Valve stem

Releasing the Electric Brake

The electric brake can be release by manually rotating the link arms forward. Once the electric brake is energized the brake will reset.

To release the brake:



1. Brake link arm on the electric brake control module

1. Locate the shaft on the electric brake where the brake link arms are connected.

Mower Maintenance

Servicing the Cutting Blades

Maintain sharp blades throughout the cutting season because sharp blades cut 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 cutter blades daily 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. For convenient sharpening and replacement, you may want to keep extra blades on hand.

A WARNING

A worn or damaged blade can break, and a piece of the blade could be thrown into the operator's or bystander's area, resulting in serious personal injury or death.

- Inspect the blade periodically for wear or damage.
- Replace a worn or damaged blade.

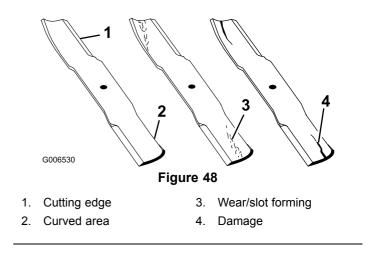
Before Inspecting or Servicing the Blades

Park the machine on a level surface, disengage the blade control switch, and move the motion control levers outward to the park position. Stop the engine and remove the key.

Inspecting the Blades

Service Interval: Before each use or daily—Check the cutting blades.

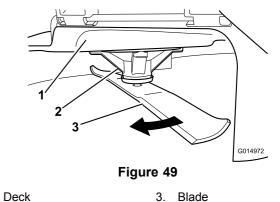
- 1. Inspect the cutting edges (Figure 48). If the edges are not sharp or have nicks, remove and sharpen the blades; refer to Sharpening the Blades.
- 2. Inspect the blades, especially the curved area (Figure 48). If you notice any damage, wear, or a slot forming in this area (item 3 in Figure 48), immediately install a new blade.



Checking for Bent Blades

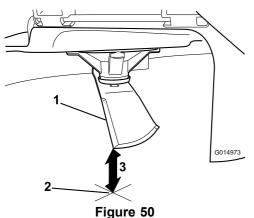
Note: The machine must be on a level surface for the following procedure.

- 1. Raise the mower deck to the highest height-of-cut position; also considered the 'transport' position.
- 2. While wearing thickly padded gloves or other adequate hand protection slowly rotate blade to be measured into a position that allows effective measurement of the distance between the cutting edge and the level surface the machine is on.



- Deck
 Spindle housing
- 2. Spinule nousing

3. Measure from the tip of the blade to the flat surface here.



- 1. Blade, in position for measuring
- 2. Level surface
- 3. Measured distance between blade and surface (A)
- 4. Rotate the same blade 180 degrees so that the opposing cutting edge is now in the same position.

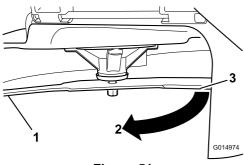
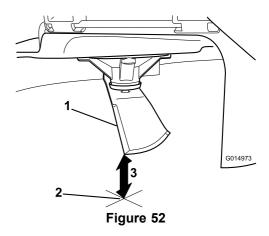


Figure 51

- 1. Blade, side previously measured
- 2. Measurement position used previously
- 3. Opposing side of blade being moved into measurement position
- 5. Measure from the tip of the blade to the flat surface here. The variance should be no more than 1/8 inch (3mm).



- 1. Opposing blade edge, in position for measuring
- 2. Level surface
- 3. Second measured distance between blade and surface (B)

A WARNING

A blade that is bent or damaged could break apart and could seriously injure or kill you or bystanders.

- Always replace bent or damaged blade with a new blade.
- Never file or create sharp notches in the edges or surfaces of blade.
- A. If the difference between A and B is greater than 1/8 inch (3mm) replace the blade with a new blade. Refer to Removing the Blades and Installing the Blades.

Note: If a bent blade is replaced with a new one and the dimension obtained continues to exceed 1/8 inch (3mm), the blade spindle could be bent. Contact an Authorized Toro Dealer for service.

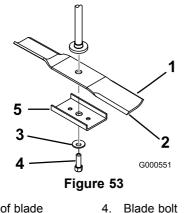
B. If the variance is within constraints, move to the next blade..

Repeat this procedure on each blade.

Removing the Blades

The blades must be replaced if a solid object is hit, if the blade is out of balance, or the blade is bent. To ensure optimum performance and continued safety conformance of the machine, use genuine Toro replacement blades. Replacement blades made by other manufacturers may result in non-conformance with safety standards.

Hold the blade end using a rag or thickly-padded glove. Remove the blade bolt, curved washer, blade stiffener (42 inch models only), and blade from the spindle shaft (Figure 53).



Sail area of blade 1. Blade

2.

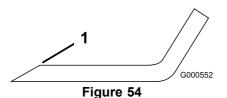
5 Blade stiffener (42 inch

models only)

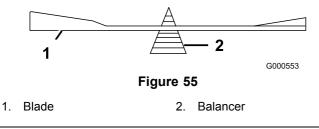
3. Curved washer

Sharpening the Blades

Use a file to sharpen the cutting edge at both ends of 1. the blade (Figure 54). Maintain the original angle. The blade retains its balance if the same amount of material is removed from both cutting edges.



- Sharpen at original angle 1.
- Check the balance of the blade by putting it on a blade 2. balancer (Figure 55). If the blade stays in a horizontal position, the blade is balanced and can be used. If the blade is not balanced, file some metal off the end of the sail area only (Figure 54). Repeat this procedure until the blade is balanced.



Installing the Blades

Install the blade onto the spindle shaft (Figure 53). 1.

Important: The curved part of the blade must be pointing upward toward the inside of the mower to ensure proper cutting.

Install the blade stiffener (42 inch models only), the 2. curved washer (cupped side toward the blade) and the blade bolt (Figure 53).

3. Torque the blade bolt to 35-65 ft-lb (47-88 N-m).

Leveling the Mower Deck

Check to ensure the mower deck is level any time you install the mower or when you see an uneven cut on your lawn.

The mower deck must be checked for bent blades prior to leveling; any bent blades must be removed and replaced. Refer to the Checking for Bent Blades procedure before continuing.

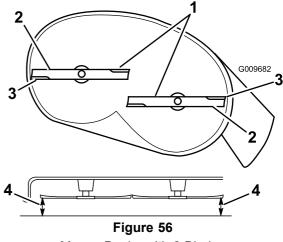
The mower deck must be leveled side-to-side first then the front to rear slope can be adjusted.

Requirements:

- The machine must be on a level surface.
- All four tire must be properly inflated. Refer to Checking the Tire Pressure in the Drive System Maintenance section.

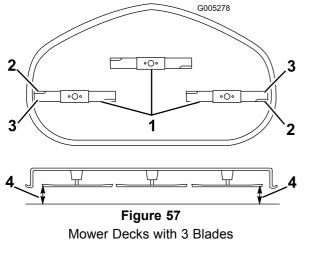
Side-to-Side Leveling

- Park the machine on a level surface and disengage the 1. blade control switch.
- 2. Move the motion control levers outward to the park position, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- Set the height-of-cut lever to middle position. 3.
- Carefully rotate the blades so that they are all side to 4 side (Figure 56 and Figure 57).



Mower Decks with 2 Blades

- Blades side to side
- 3. Outside cutting edges
- Sail area of blade
- 4
- Measure from the tip of the blade to the flat surface here



- Blades side to side 1.
- 3. Outside cutting edges

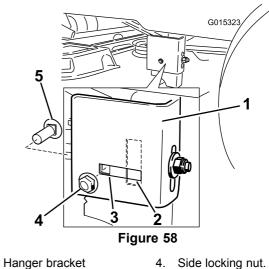
here

- Sail area of blade 2.
- Measure from the tip of the 4. blade to the flat surface
- 5. Measure between the outside cutting edges and the flat surface (Figure 56 and Figure 57). If both measurements are not within 3/16 inch (5 mm), an adjustment is required; continue with this procedure.
- 6. Support the weight of mower deck by placing wood blocks under the edges of the mower deck.

Note: Avoid placing the supports under any anti-scalp rollers if present on the mower deck.

- 7. Move to the left side of the machine. Check if the side carriage bolt is in the fixed or slotted position (Figure 58).
- If the side carriage bolt is in the fixed position, remove 8. the side carriage bolt and side locking nut from the fixed position and install it into the slotted adjustment position (Figure 58).

If the bolt is in the slotted position, the carriage bolt and side locking nut do not need to be removed.

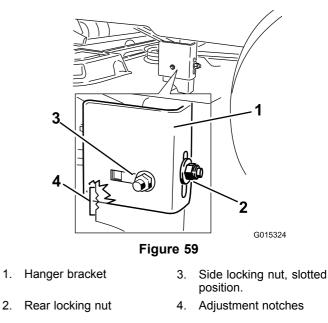


- 1.

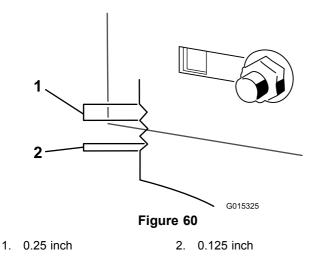
Side carriage bolt

- Slotted adjustment 2. position
- 3. Fixed position
- 9. Loosen the rear locking nut on the hanger bracket (Figure 59).

5.



10. Loosen the side locking nut on the hanger bracket just enough to allow the hanger to be adjusted (Figure 59). Use the notches on the welded bracket to measure the amount of adjustment. Each notch surface is equivalent to 0.25 inch, while a single side is 0.125 inch (Figure 60). Adjust the height of the mower deck to the desired height.



- 11. Stop the deck at the adjusted position and tighten the side locking nut on the hanger bracket to hold the new position (Figure 59). Tighten the rear locking nut on the hanger bracket.
- 12. Continue leveling the deck by checking the front-to-rear blade slope; refer to Adjusting the Front-to-Rear Blade Slope.

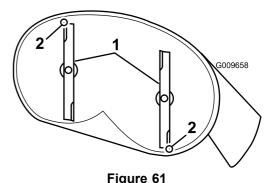
Adjusting the Front-to-Rear Blade Slope

Check the front-to-rear blade level any time you install the mower. If the front of the mower is more than 5/16 inch (7.9 mm) lower than the rear of the mower, adjust the blade level using the following instructions:

- 1. Park the machine on a level surface and disengage the blade control switch.
- 2. Move the motion control levers outward to the park position, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Set the height-of-cut lever to middle position.

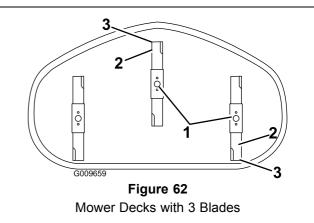
Note: Check and adjust the side-to-side blade level if you have not checked the setting; refer to Side-to-Side Leveling.

4. Carefully rotate the blades so they are facing front to rear (Figure 61 and Figure 62).

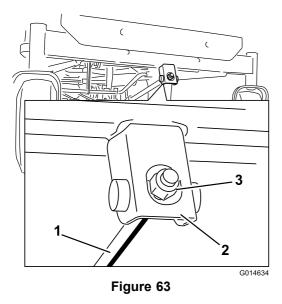


Mower Decks with 2 Blades

- 1. Blades front to rear
- 2. Measure from the tip of the blade to the flat surface here



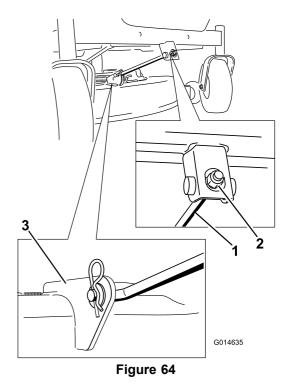
- 1. Blades front to rear
- 3. Measure from the tip of the blade to the flat surface here
- 2. Outside cutting edges
- 5. Measure from the tip of the front blade to the flat surface and the tip of the rear blade to the flat surface (Figure 61 and Figure 62). If the front blade tip is not 1/16-5/16 inch (1.6-7.9 mm) lower than the rear blade tip, adjust the front locknut.
- 6. To adjust the front-to-rear blade slope, rotate the adjustment nut in the front of the mower (Figure 63).



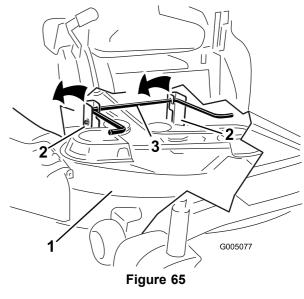
- 1. Adjusting rod 3. Lock nut
- 2. Adjusting block
- 7. To raise the front of the mower, tighten the adjustment nut. To lower the front of the mower, loosen the adjustment nut.
- 8. After adjustment, check the front-to-rear slope again. Continue adjusting the nut until the front blade tip is 1/16-5/16 inch (1.6-7.9 mm) lower than the rear blade tip (Figure 61 and Figure 62).
- 9. When the front-to-rear blade slope is correct check the side-to-side level of the mower again; refer to Leveling the Mower from Side-to-Side.

Removing the Mower

- 1. Park the machine on a level surface and disengage the blade control switch.
- 2. Move the motion control levers outward to the park position, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Lower the height-of-cut lever to the lowest position.
- Remove the hairpin cotter from the front support rod and remove the rod from the deck bracket (Figure 64). Carefully lower the front of the mower deck to the ground.



- 1. Front support rod 3. Deck bracket
- 2. Locking nut
- 5. Lift the mower deck and hanger brackets clear of the rear lift rod and lower the mower carefully to the ground (Figure 65).



- 1. Mower deck 3. Rear lift rod
- 2. Hanger bracket
- 6. Slide the mower deck rearward to remove the mower belt from the engine pulley.
- 7. Slide the mower deck out from underneath the machine.

Note: Retain all parts for future installation.

Mower Belt Maintenance

Inspecting the Belts

Service Interval: Every 25 hours-Check the belts for wear/cracks.

Check the belts for cracks, frayed edges, burn marks, or any other damage. Replace damaged belts.

Replacing the Mower Belt

Squealing when the belt is rotating, blades slipping when cutting grass, frayed belt edges, burn marks, and cracks are signs of a worn mower belt. Replace the mower belt if any of these conditions are evident.

- Park the machine on a level surface and disengage the 1. blade control switch.
- 2. Move the motion control levers outward to the park position, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- Set the height-of-cut at the lowest cutting position 3. [1-1/2 inch (38 mm)].
- Using a spring removal tool, (Toro part no. 92-5771), 4. remove the idler spring from the deck hook to remove tension on the idler pulley and roll the belt off of the pulleys (Figure 66 and Figure 67).

A WARNING

The spring is under tension when installed and can cause personal injury.

Be careful when removing the belt.

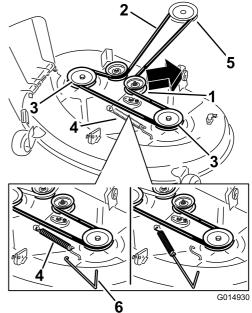
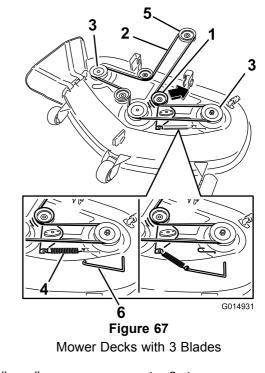


Figure 66 Mower Decks with 2 Blades

- Idler pulley 1.
- 2. Mower belt
- 4. Spring
- 5. Engine pulley
- 3. Outside pulley
- 6. Spring removal too



- 1. Idler pulley 2. Mower belt
- 4. Spring 5. Engine pulley
- 3. Outside pulley 6. Spring removal too
- 5. Route the new belt around the engine pulley and mower pulleys (Figure 67).

6. Using a spring removal tool, (Toro part no. 92-5771), install the idler spring over the deck hook and placing tension on the idler pulley and mower belt ((Figure 66 and Figure 67)).

Installing the Mower

- Park the machine on a level surface and disengage the 1. blade control switch.
- Move the motion control levers outward to the park 2. position, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- Slide the mower under the machine. 3.
- Lower the height-of-cut lever to the lowest position. 4.
- Lift the rear of the mower deck and guide the hanger 5. brackets over the rear lift rod (Figure 65).
- Attach the front support rod to the mower deck with 6. the clevis pin and hairpin cotter (Figure 64).
- 7. Install the mower belt onto the engine pulley; refer to Replacing the Mower Belt.

Replacing the Grass Deflector

Service Interval: Before each use or daily-Inspect the grass deflector for damage

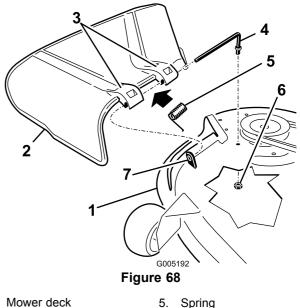
A WARNING

An uncovered discharge opening could allow the lawn mower to throw objects in the operator's or bystander's direction and result in serious injury. Also, contact with the blade could occur.

Never operate the machine without grass deflector, discharge cover or grass collection system in place.

Inspect the grass deflector for damage before each use. Replace any damaged parts before use.

1. Locate items shown in Figure 68.



- 1. Mower deck
 - Grass deflector Nut (3/8 inch) 6.
 - Grass deflector bracket Short stand-off 7.
- 4. Rod

2.

3.

- 2. Remove the nut (3/8 inch) from the rod under the mower (Figure 68).
- Slide the rod out of the short stand-off, spring, and 3. grass deflector (Figure 68). Remove the damaged or worn grass deflector.
- Replace the grass deflector (Figure 68). 4.
- 5. Slide rod, straight end, through the rear grass deflector bracket.
- 6. Place the spring on the rod, with end wires down, and between the grass deflector brackets. Slide rod through second grass deflector bracket (Figure 68).
- Insert rod at front of grass deflector into short 7. stand-off on deck. Secure rear end of rod into the mower with a nut (3/8 inch) (Figure 68).

Important: The grass deflector must be spring loaded in the down position. Lift the deflector up to test that it snaps to the full down position.

Cleaning

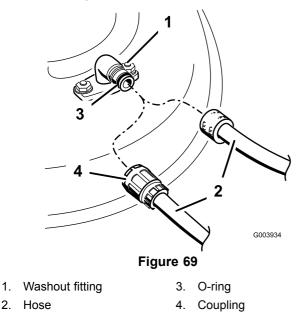
Washing the Underside of the **Mower**

Service Interval: After each use-Clean the mower deck housing.

Wash the underside of the mower after each use to prevent grass buildup for improved mulch action and clipping dispersal.

- 1. Park the machine on a level surface and disengage the blade control switch.
- Move the motion control levers outward to the park 2. position, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Attach the hose coupling to the end of the mower washout fitting, and turn the water on high (Figure 69).

Note: Spread petroleum jelly on the washout fitting O-ring to make the coupling slide on easier and protect the O-ring.



Lower the mower to the lowest height-of-cut. 4.

2.

- 5. Sit on the seat and start the engine. Engage the blade control switch and let the mower run for one to three minutes.
- Disengage the blade control switch, stop the engine, 6. and remove the ignition key. Wait for all moving parts to stop.
- 7. Turn the water off and remove the coupling from the washout fitting.

Note: If the mower is not clean after one washing, soak it and let it stand for 30 minutes. Then repeat the process.

8. Run the mower again for one to three minutes to remove excess water.

A WARNING

A broken or missing washout fitting could expose you and others to thrown objects or blade contact. Contact with blade or thrown debris can cause injury or death.

- Replace broken or missing washout fitting immediately, before using mower again.
- Never put your hands or feet under the mower or through openings in the mower.

Storage

Cleaning and Storage

- 1. Disengage the blade control switch, move the motion controls outward to the park position, stop the engine, and remove the key.
- 2. Remove grass clippings, dirt, and grime from the external parts of the entire machine, especially the engine. Clean dirt and chaff from the outside of the engine cylinder head fins and blower housing.

Important: You can wash the machine with mild detergent and water. Do not pressure wash the machine. Avoid excessive use of water, especially near the control panel, under the seat, around the engine, hydraulic pumps, and motors.

- 3. Service the air cleaner; refer to Servicing the Air Cleaner in the Engine Maintenance section.
- 4. Grease and oil the machine; refer to the Lubrication section.
- 5. Change the crankcase oil and filter; refer to Servicing the Engine Oil in the Engine Maintenance section.
- 6. Check the tire pressure; refer to Checking the Tire Pressure in the Drive System Maintenance section.
- 7. Charge the battery; refer to Servicing the Battery in the Electrical System Maintenance section.
- 8. Check the condition of the blades; refer to Servicing the Cutting Blades in the Mower Maintenance section.
- 9. Prepare the machine for storage when non-use occurs over 30 days. Prepare the machine for storage as follows.
- 10. Add a petroleum based stabilizer/conditioner to the fuel in the tank. Follow the mixing instructions from the stabilizer manufacturer. Do not use an alcohol based stabilizer (ethanol or methanol).

Note: A fuel stabilizer/conditioner is most effective when mixed with fresh gasoline and used at all times.

Run the engine to distribute the conditioned fuel through the fuel system (5 minutes).

Important: Do not store stabilizer/conditioned gasoline over 90 days.

- 11. Remove the spark plug(s) and check its condition; refer to Servicing the Spark Plug in the Engine Maintenance section. With the spark plug(s) removed from the engine, pour two tablespoons of engine oil into the spark plug hole. Use the starter to crank the engine and distribute the oil inside the cylinder. Install the spark plug(s). Do not install the wire on the spark plug(s).
- 12. Clean any dirt and chaff from the top of the mower.
- 13. Scrape any heavy buildup of grass and dirt from the underside of the mower, then wash the mower with a garden hose.

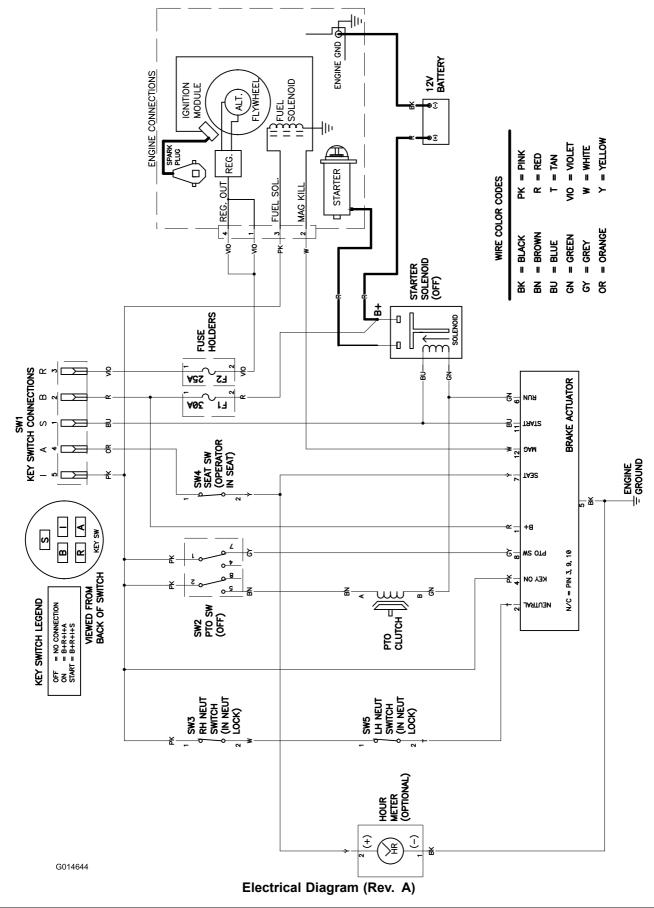
- 14. Check the condition of the drive and mower belts.
- 15. Check and tighten all bolts, nuts, and screws. Repair or replace any part that is worn or damaged.
- 16. Paint all scratched or bare metal surfaces. Paint is available from your Authorized Service Dealer.
- 17. Store the machine in a clean, dry garage or storage area. Remove the key from the ignition switch and keep it in a memorable place. Cover the machine to protect it and keep it clean.

Troubleshooting

Problem	Possible Cause	Corrective Action
The fuel tank is showing signs of collapsing or the machine is showing signs of frequently running out of fuel.	1. The air cleaner paper element clogged.	1. Clean the paper element.
The engine overheats.	1. The engine load is excessive.	1. Reduce ground speed.
	2. The oil level in the crankcase is low.	2. Add oil to the crankcase.
	The cooling fins and air passages under the engine blower housing are plugged.	Remove the obstruction from the cooling fins and air passages.
	4. The air cleaner is dirty.	 Clean or replace the air cleaner element.
	5. Dirt, water, or stale fuel is in fuel system.	5. Contact an Authorized Service Dealer
The starter does not crank	1. The blade control switch is engaged.	 Move the blade control switch to Disengaged.
	2. The motion control levers are not in the park position.	2. Move the motion control levers outward to the park position.
	3. The battery is dead.	3. Charge the battery.
	 The electrical connections are corroded or loose. 	 Check the electrical connections for good contact.
	5. A fuse is blown.	5. Replace the fuse.
	6. A relay or switch is damaged.	6. Contact an Authorized Service Dealer.
The engine will not start, starts hard, or fails to keep running.	1. The fuel tank is empty.	1. Fill the fuel tank.
	2. The choke is not on.	2. Move the choke lever to On.
	3. The air cleaner is dirty.	 Clean or replace the air cleaner element.
	 The spark plug wire(s) is loose or disconnected. 	4. Install the wire(s) on the spark plug.
	The spark plug(s) is pitted, fouled, or the gap is incorrect.	 Install a new, correctly gapped spark plug(s).
	6. There is dirt in fuel filter.	6. Replace the fuel filter.
	 Dirt, water, or stale fuel is in fuel system. 	7. Contact an Authorized Service Dealer.
	8. There is incorrect fuel in the fuel tank.	8. Drain the tank and replace the fuel with the proper type.
	9. The oil level in the crankcase is low.	9. Add oil to the crankcase.
The engine loses power.	1. The engine load is excessive.	1. Reduce ground speed.
	2. The air cleaner is dirty.	2. Clean the air cleaner element.
	3. The oil level in the crankcase is low.	3. Add oil to the crankcase.
	 The cooling fins and air passages under the engine blower housing are plugged. 	 Remove the obstruction from the cooling fins and air passages.
	5. The spark plug(s) is pitted, fouled, or the gap is incorrect.	 Install a new, correctly gapped spark plug(s).
	6. The fuel tank vent is blocked.	6. Contact an Authorized Service Dealer.
	7. There is dirt in the fuel filter.	7. Replace the fuel filter.
	 Dirt, water, or stale fuel is in the fuel system. 	8. Contact an Authorized Service Dealer.
	9. There is incorrect fuel in the fuel tank.	 Drain the tank and replace the fuel with the proper type.

Problem	Possible Cause	Corrective Action
The machine does not drive.	1. The bypass valves are open.	1. Close the tow valves.
	2. The traction belts are worn, loose, or broken.	2. Contact an Authorized Service Dealer.
	 The traction belts are off of the pulleys. The transmission has failed. 	 Contact an Authorized Service Dealer. Contact an Authorized Service Dealer.
There is abnormal vibration.	1. The engine mounting bolts are loose.	1. Tighten the engine mounting bolts.
	2. The engine pulley, idler pulley, or blade pulley is loose.	2. Tighten the appropriate pulley.
	 The engine pulley is damaged. The cutting blade(s) is/are bent or unbalanced. 	 Contact an Authorized Service Dealer. Install a new cutting blade(s).
	 A blade mounting bolt is loose. A blade spindle is bent. 	 Tighten the blade mounting bolt. Contact an Authorized Service Dealer.
Uneven cutting height.	1. The blade(s) is not sharp.	1. Sharpen the blade(s).
	 A cutting blade(s) is/are bent. The mower is not level. 	 Install a new cutting blade(s). Level the mower from side-to-side and front-to-rear.
	 An anti-scalp wheel is not set correctly. The underside of the mower is dirty. 	 Adjust the anti-scalp wheel height. Clean the underside of the mower.
	6. 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.	1. The drive belt is worn, loose or broken.	1. Install a new drive belt.
	2. The drive belt is off of the pulley.	 Install the drive belt and check the adjusting shafts and belt guides for the correct position.
	 The Power Take-Off (PTO) switch or PTO clutch is faulty. 	3. Contact an Authorized Service Dealer.
	4. The mower belt is worn, loose, or broken.	4. Install a new mower belt.

Schematics





Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly promise to the original purchaser to repair the Toro Products listed below if defective in materials or workmanship.

The following time periods apply from the date of purchase by the original owner:

Products	Warranty Period
TimeCutter and MX Mowers ∙ Engines ¹ — Residential use	Residential use ² – 3 years Kawasaki – 3 years Kohler – 3 years Toro – 3 years
TimeCutter and MX Mowers ∙ Engines ¹ — Commercial use	Commercial use 30 days Kawasaki – 3 years Kohler – 90 days Toro – 90 days
TITAN Mowers – Residential or Commercial use	3 years or 300 hours ³
 Engines¹ — Residential or Commercial use 	Kawasaki – 3 years
• Frame	Lifetime (original owner only) ⁴
TITAN MX5400 and MX600 Mowers – Residential or Commercial use	4 years or 400 hours ³
•Engines ¹ — Residential or Commercial use	Kawasaki – 3 years
• Frame	Lifetime (original owner only) ⁴
All Mowers	
Attachments Battery	1 year 90 days Parts and Labor 1 year Parts only
Belts and Tires	90 days

¹Some engines used on Toro Products are warranted by the engine manufacturer.

²Residential use means use of the product on the same lot as your home. Use at more than one location is considered commercial use and the commercial use warranty would apply.

³Whichever occurs first.

⁴Lifetime Frame Warranty - If the main frame, consisting of the parts welded together to form the tractor structure that other components such as the engine are secured to, cracks or breaks in normal use, it will be repaired or replaced, at Toro's option, under warranty at no cost for parts and labor. Frame failure due to misuse or abuse and failure or repair required due to rust or corrosion are not covered.

Warranty may be denied if the hour meter is disconnected, altered, or shows signs of being tampered with.

Owner Responsibilities

You must maintain your Toro Product by following the maintenance procedures described in the *Operator's Manual*. Such routine maintenance, whether performed by a dealer or by you, is at your expense.

Instructions for Obtaining Warranty Service

If you think that your Toro Product contains a defect in materials or workmanship, follow this procedure:

1. Contact any Authorized Toro Service Dealer to arrange service at their dealership. To locate a dealer convenient to you, refer to the Yellow Pages of your telephone directory (look under "Lawn Mowers") or access our web site at www.Toro.com. You may also call the numbers listed in item #3 to use the 24-hour Toro Dealer locator system.

- Bring the product and your proof of purchase (sales receipt) to the Service Dealer. The dealer will diagnose the problem and determine if it is covered under warranty.
- If for any reason you are dissatisfied with the Service Dealer's analysis or with the assistance provided, contact us at:

Customer Care Department, RLC Division Toro Warranty Company 8111 Lyndale Avenue South Bloomington, MN 55420-1196 Toll free at 866-216-6029 (U.S. customers) Toll free at 866-216-6030 (Canadian customers)

Items and Conditions Not Covered

There is no other express warranty except for special emission system coverage and engine warranty coverage on some products. This express warranty does not cover the following:

- Cost of regular maintenance service or parts, such as filters, fuel, lubricants, oil changes, spark plugs, air filters blade sharpening or worn blades, cable/linkage adjustments, or brake and clutch adjustments
- Components failing due to normal wear
- Any product or part which has been altered or misused or neglected and requires replacement or repair due to accidents or lack of proper maintenance
- Pickup and delivery charges
- Repairs or attempted repairs by anyone other than an Authorized Toro Service Dealer
- Repairs necessary due to failure to follow recommended fuel procedure (consult Operator's Manual for more details)
 - Removing contaminants from the fuel system is not covered
 - Use of old fuel (more than one month old) or fuel which contains more than 10% ethanol or more that 15% MTBE
 - Failure to drain the fuel system prior to any period of non-use over one month

General Conditions

All repairs covered by these warranties must be performed by an Authorized Toro Service Dealer using Toro approved replacement parts.

Neither The Toro Company nor Toro Warranty Company is liable for indirect, incidental or consequential damages in connection with the use of the Toro Products covered by this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty.

All implied warranties of merchantability (that the product is fit for ordinary use) and fitness for use (that the product is fit for a particular purpose) are limited to the duration of the express warranty.

Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Countries Other than the United States or Canada

Customers who have purchased Toro products outside the United States or Canada should contact their Toro Distributor (Dealer) to obtain guarantee policies for your country, province, or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact the Toro importer. If all other remedies fail, you may contact us at Toro Warranty Company.

Australian Consumer Law: Australian customers will find details relating to the Australian Consumer Law either inside the box or at your local Toro Dealer.