Form No. 3410-585 Rev A

Flashing Beacon Kit

CT, LT, and LT-F Series Triple Turf Mower or Groundsmaster® 3400 Traction Unit

Model No. 02920—Serial No. 400000000 and Up

Installation Instructions

⚠ 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.

Important: **Do not install the flashing beacon kit on machines with a cab.**

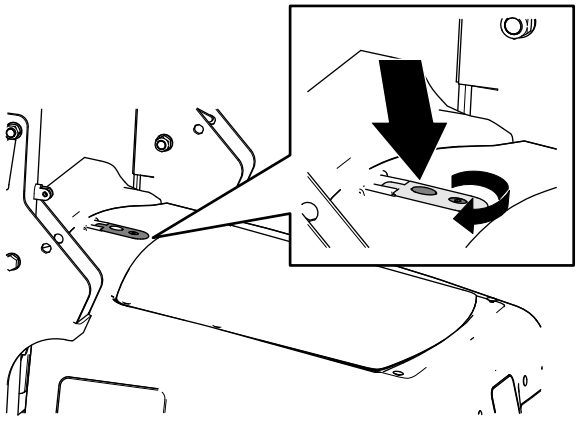
Preparing to Install the Flashing Beacon Kit

Preparing the Machine

1. Park the machine on a level surface.
2. Lower the mower deck, reel cutting unit, or flail cutting unit to the ground.
3. Engage the parking brake.
4. Shut off the engine remove the key.
5. Wait for all moving parts to stop.

Opening the Hood

1. Insert the hood key into the lock for the hood and rotate the lock 90° counterclockwise (Figure 1 orFigure 2).
2. Release the hood latches.
   - **For machines with a top mounted hood latch:** press the button of the hood latch (Figure 1).



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Figure 1

   - **For machines with a side mounted hood latches:** remove the 2 hood latches from the latch catches (Figure 2).

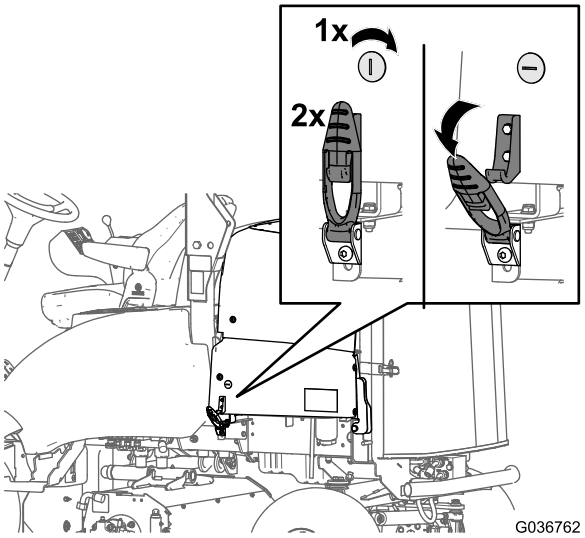
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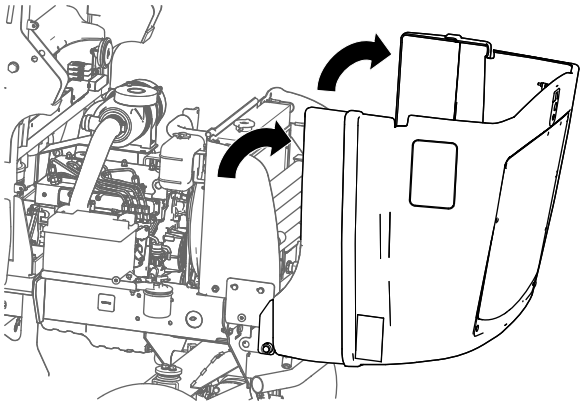
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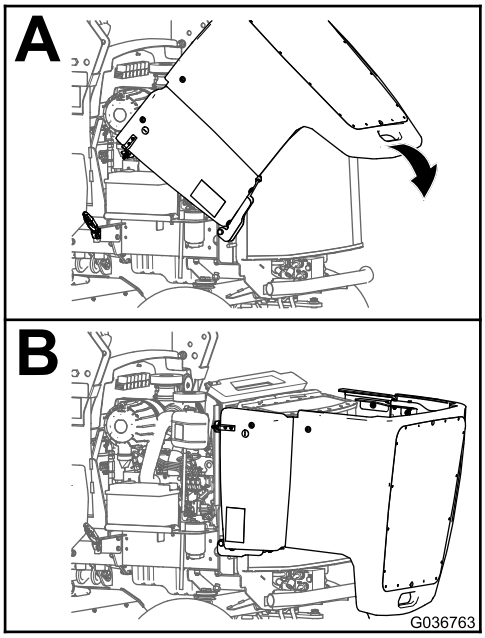
Figure 2

3. Carefully rotate the hood back and down (Figure 4).



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Figure 3
Machines with a Top Mounted Hood Latch



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Figure 4
Machines with a Side Mounted Hood Latches

Disconnecting the Battery

⚠ 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.

⚠ WARNING

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

- **When disconnecting or connecting 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.**

⚠ WARNING

Incorrect battery cable routing could damage the machine and cables, causing sparks. Sparks can cause the battery gases 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.**

1. Lift the cover of the negative battery cable (Figure 5).

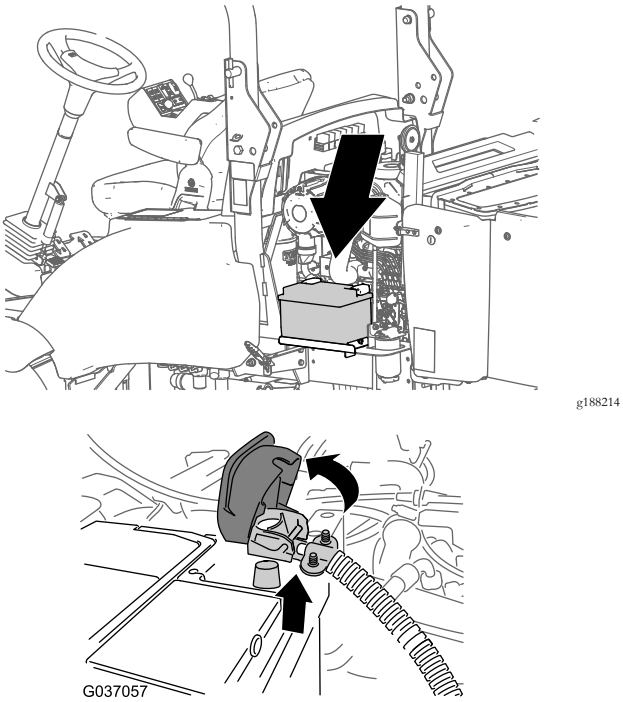


Figure 5

2. Remove the negative battery cable from the battery (Figure 5).

   Note: Position the negative battery cable where it cannot contact the negative battery post.

3. Lift the cover of the positive battery cable.

   Note: Lifting the cover will loosen the battery cable terminal from the positive battery post.

4. Remove the positive battery cable from the battery.

Removing the Bulkhead Panel

1. Remove the 4 bolts (6 x 25 mm), 4 lock washers (6 mm), and 4 flat washers (6 mm) that secure the bulkhead panel to the chassis of the machine (Figure 6).

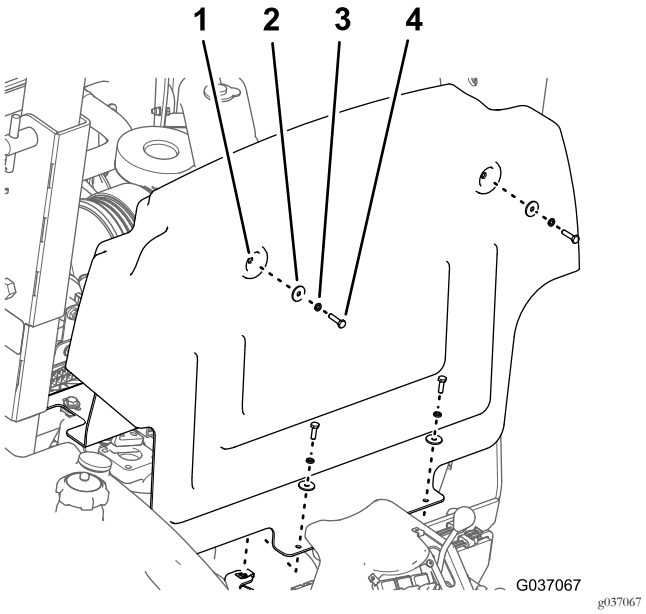


Figure 6

1. Bulkhead panel
2. Flat washer
3. Lock washer
4. Bolt

2. Move the panel up and forward, and remove it from the machine (Figure 6).

Installing the Kit

Installing the Brackets

Note: You can install the beacon light on either side of the ROPS frame.

1. Ensure that the ROPS pivot bolts and clamp bolts are in place and tight.
2. On the same side of the ROPS on which you plan to install the kit, remove the nut, bolt, and washer from the ROPS and discard the nut and bolt; refer to Figure 7.

   Note: Retain the washer.

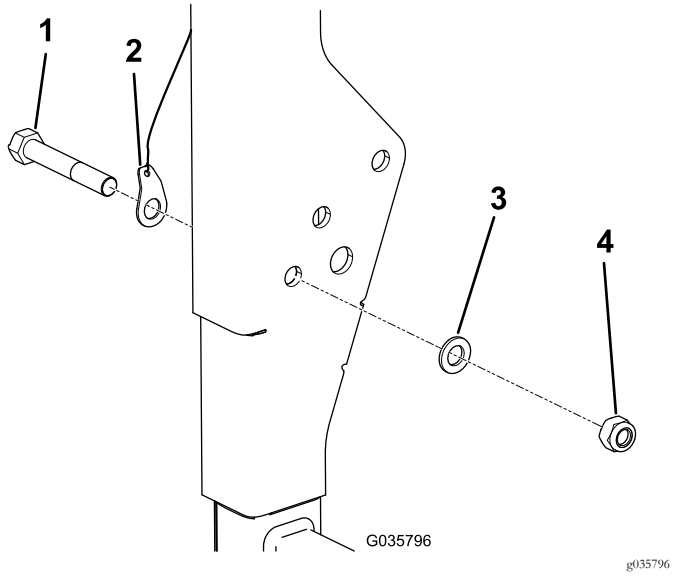


Figure 7

1. Bolt (discard)
2. Lanyard washer
3. Washer (retain)
4. Locknut (discard)

3. Align the hole in the ROPS bracket with the hole in the ROPS and install the new bolt with the existing washer (Figure 8).

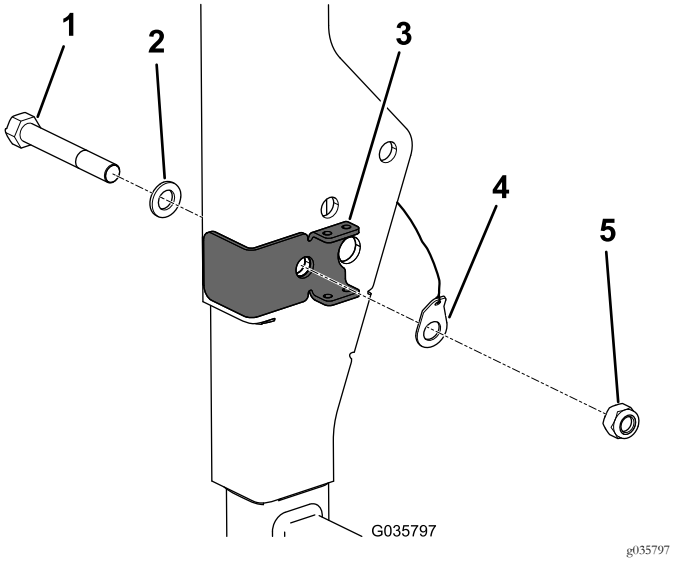


Figure 8

1. Large bolt
2. Washer (existing)
3. ROPS bracket
4. Lanyard washer
5. Large locknut

4. Install the new large locknut and the existing lanyard washer, and tighten the locknut to a torque of 15 N·m (11 ft-lb).

   Note: Do not overtighten them, as this will make the ROPS difficult to fold.

5. Align the small holes in the beacon bracket with the upper holes in the ROPS bracket (Figure 9), and secure the brackets with the 2 small bolts, 4 small washers, and 2 small locknuts.

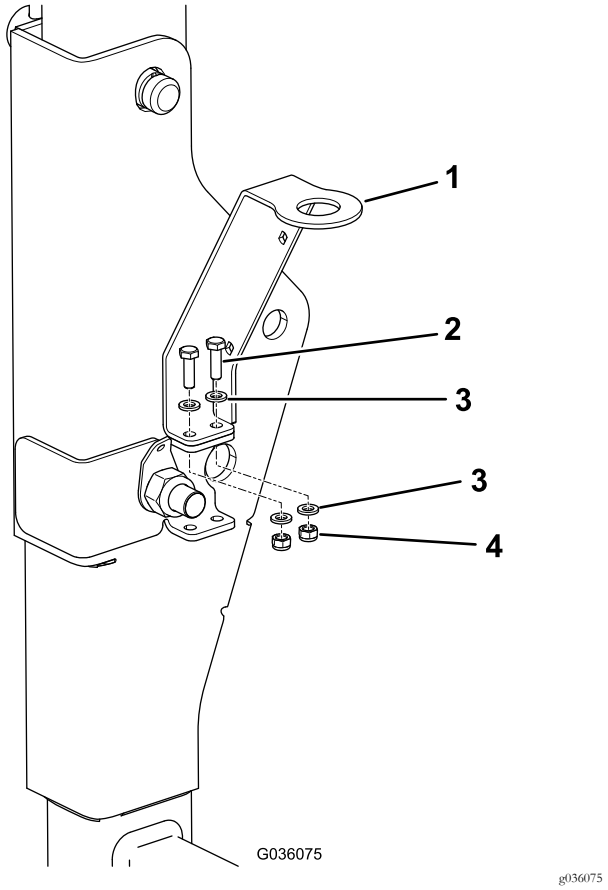


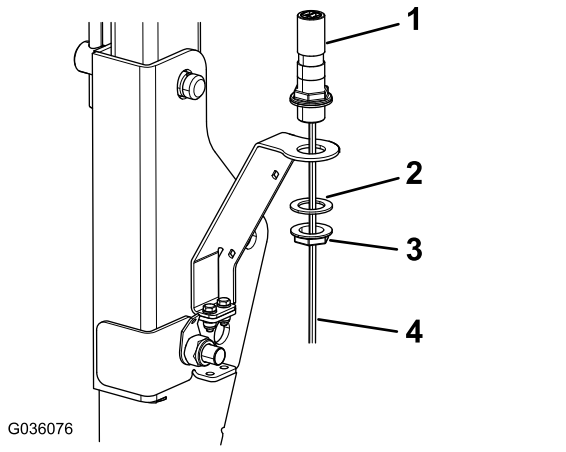
Figure 9

1. Beacon bracket
2. Small bolt (2)
3. Small washer (4)
4. Small locknut (2)

Installing the Beacon

1. Install the beacon stand to the beacon bracket (Figure 10).

   Note: Rotate the cable as you screw in the connector. This prevents the cable from being twisted.

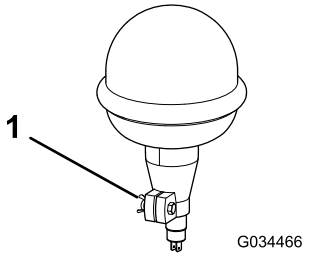


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Figure 10

1. Beacon stand
2. Seal
3. Nut
4. Beacon cable

2. To fit the beacon cable, start by removing the fitting in the top of the beacon stand and feed the beacon cable through the bottom and out through the top.
3. Connect the beacon cable, ensuring that the red connector is fitted to the central positive terminal of the beacon stand fitting, and the black connector to the outer terminal. Screw the fitting back into the beacon stand.
4. Loosen the wing nut on the beacon (Figure 11).

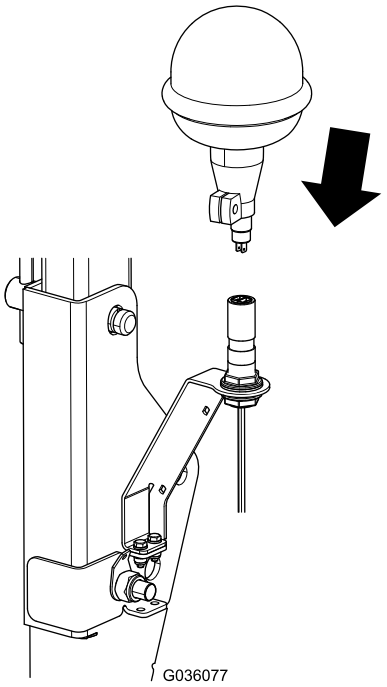


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Figure 11

1. Wing nut

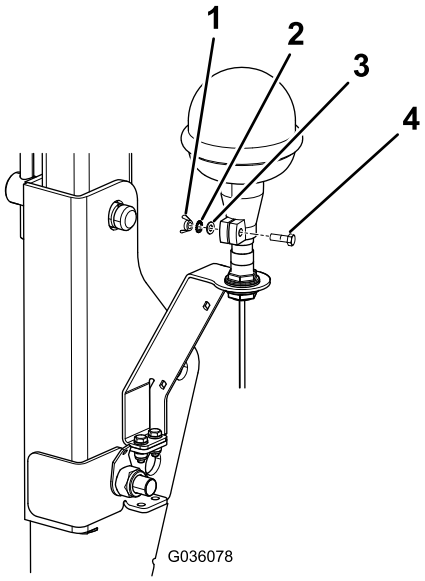
5. Assemble the beacon onto the top of the beacon stand (Figure 12).



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Figure 12

6. Tighten the wing nut on the clamp (Figure 13).



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Figure 13

1. Wing nut
2. Lock washer
3. Washer
4. Bolt

7. Route the cable down the front of the ROPS frame, ensuring that it cannot be trapped or chafed.
8. Connect the cable to the mating connector on the main wiring loom, situated near the horn, with the orange and black wires.
9. Insert a cable tie through each of the 2 holes in the beacon bracket (Figure 14), and secure the cable.

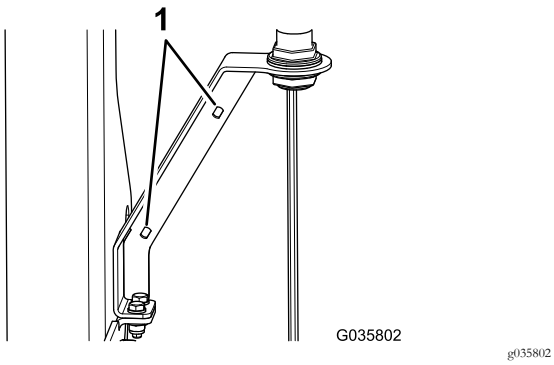


Figure 14

1. Holes (beacon bracket)

Installing the Switch

1. On the main control panel at the rear of the control pad, remove and discard the blanking plug.
2. Pull out the switch connector containing orange and red / orange and black wires and plug in the switch.
3. Press the switch into the cutout until it clicks into place (Figure 15).

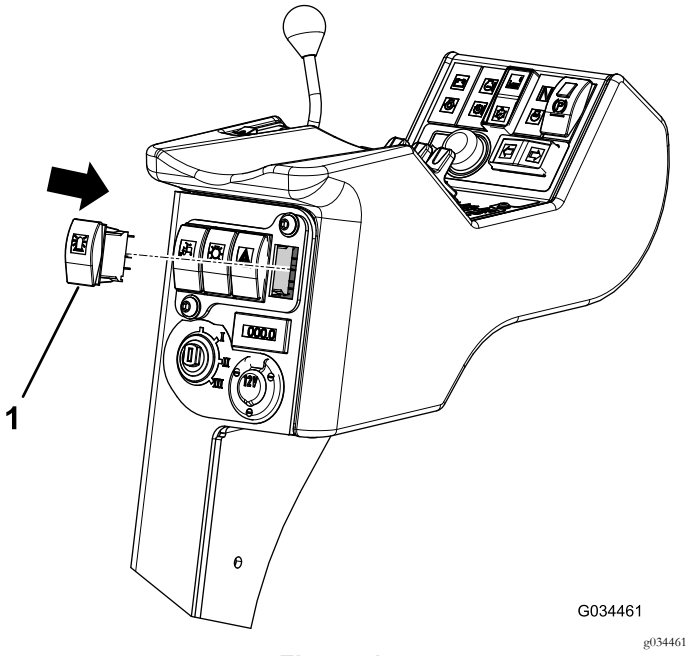


Figure 15

1. Switch

Completing the Installation

Installing the Bulkhead Panel

1. Align the 4 holes in the bulkhead panel with the 4 clip nuts on the chassis; refer to Figure 6 in Removing the Bulkhead Panel (page 3).
2. Secure the bulkhead panel to the chassis of the machine with the 4 bolts, 4 lock washers, and 4 flat washers; refer to Figure 6 in Removing the Bulkhead Panel (page 3).
3. Torque the bolts to 7.7 to 11.6 N·m (68 to 103 in-lb).

Connecting the Battery Cables

⚠ WARNING

Incorrect battery cable routing could damage the machine and cables, causing sparks. Sparks can cause the battery gases 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.**

1. Connect the positive battery cable to the battery post; refer to Disconnecting the Battery (page 2)
2. Align the insulator cover of the battery-cable terminal and close the cover; refer to Disconnecting the Battery (page 2).

   Note: Closing the cover will tighten the battery cable terminal from the positive battery post.
3. Connect the negative battery cable to the battery post; refer to Figure 5 in Disconnecting the Battery (page 2).
4. Align the insulator cover of the battery-cable terminal and close the cover; refer to Figure 5 in Disconnecting the Battery (page 2).

   Note: Closing the cover will tighten the battery cable terminal from the negative battery post.

Applying the Serial Label and Lowering the Hood

1. Apply the serial label to the left frame rail, adjacent to the machine serial label.
2. Close and secure the hood; refer to Opening the Hood (page 1).
3. Rotate the lock 90° clockwise to the LOCK position; refer to Opening the Hood (page 1).

Operation

Using the Beacon

To turn on the beacon, press the bottom of the switch.

To shut off the beacon, press the top of the switch.

Note: The ignition switch must be in position 1 for the beacon to work.

Maintenance

Replacing the Fuse

1. Remove the cover from the fuse block (Figure 16).

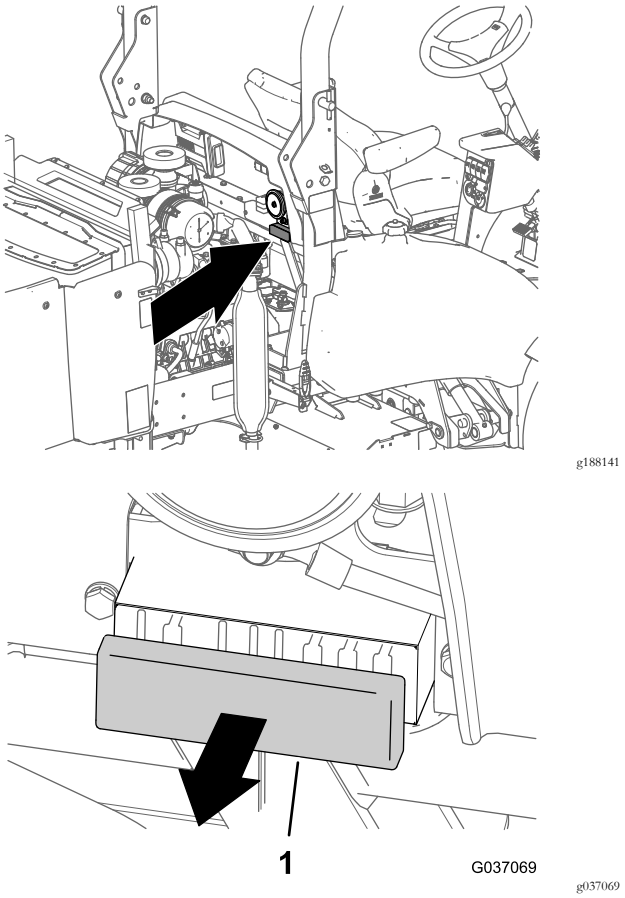


Figure 16

1. Cover (fuse block)

2. Remove the 10 A fuse from the slot in the fuse block located at the 3rd position from the right (Figure 17).

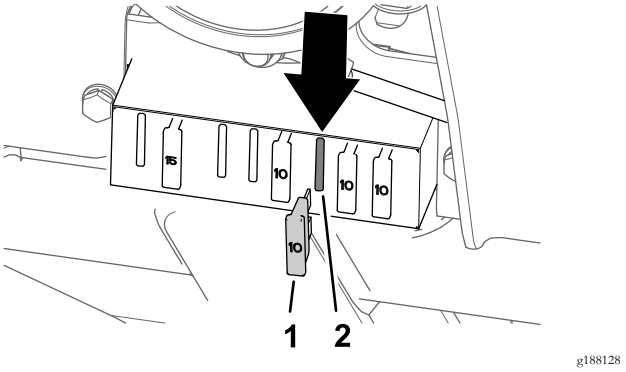


Figure 17

1. 10 A fuse
2. Fuse block socket (3rd position from the right)

3. Insert a 10 A fuse into the slot of the fuse block located at the 3rd position from the right (Figure 17).

   Important: Always use a fuse of the same type and amperage as the one you are replacing; otherwise, you could damage the electrical system.

   Note: Ensure that the fuse is fully seated.

4. Install the cover on to the fuse block (Figure 16).

Notes:

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European Privacy Notice

The Information Toro Collects
Toro Warranty Company (Toro) respects your privacy. In order to process your warranty claim and contact you in the event of a product recall, we ask you to share certain personal information with us, either directly or through your local Toro company or dealer.

The Toro warranty system is hosted on servers located within the United States where privacy law may not provide the same protection as applies in your country.

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The Way Toro Uses Information
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We will keep your personal information as long as we need it for the purposes for which it was originally collected or for other legitimate purposes (such as regulatory compliance), or as required by applicable law.

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The Toro Warranty

A Limited Warranty

Conditions and Products Covered

The Toro® Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly warrant your Toro Commercial product ("Product") to be free from defects in materials or workmanship for two years or 1500 operational hours*, whichever occurs first. This warranty is applicable to all products with the exception of Aerators (refer to separate warranty statements for these products). Where a warrantable condition exists, we will repair the Product at no cost to you including diagnostics, labor, parts, and transportation. This warranty begins on the date the Product is delivered to the original retail purchaser.
* Product equipped with an hour meter.

Instructions for Obtaining Warranty Service

You are responsible for notifying the Commercial Products Distributor or Authorized Commercial Products Dealer from whom you purchased the Product as soon as you believe a warrantable condition exists. If you need help locating a Commercial Products Distributor or Authorized Dealer, or if you have questions regarding your warranty rights or responsibilities, you may contact us at:

Commercial Products Service Department
Toro Warranty Company
8111 Lyndale Avenue South
Bloomington, MN 55420-1196
E-mail: commercial.warranty@toro.com

Owner Responsibilities

As the Product owner, you are responsible for required maintenance and adjustments stated in your Operator's Manual. Failure to perform required maintenance and adjustments can be grounds for disallowing a warranty claim.

Items and Conditions Not Covered

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. This warranty does not cover the following:

- Product failures which result from the use of non-Toro replacement parts, or from installation and use of add-on, or modified non-Toro branded accessories and products. A separate warranty may be provided by the manufacturer of these items.
- Product failures which result from failure to perform recommended maintenance and/or adjustments. Failure to properly maintain your Toro product per the Recommended Maintenance listed in the *Operator's Manual* can result in claims for warranty being denied.
- Product failures which result from operating the Product in an abusive, negligent or reckless manner.
- Parts subject to consumption through use unless found to be defective. Examples of parts which are consumed, or used up, during normal Product operation include, but are not limited to, brakes pads and linings, clutch linings, blades, reels, bed knives, tines, spark plugs, castor wheels, tires, filters, belts, and certain sprayer components such as diaphragms, nozzles, and check valves, etc.
- Failures caused by outside influence. Items considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved coolants, lubricants, additives, fertilizers, water, or chemicals, etc.
- Normal noise, vibration, wear and tear, and deterioration.
- Normal "wear and tear" includes, but is not limited to, damage to seats due to wear or abrasion, worn painted surfaces, scratched decals or windows, etc.

Parts

Parts scheduled for replacement as required maintenance are warranted for the period of time up to the scheduled replacement time for that part. Parts replaced under this warranty are covered for the duration of the original product warranty and become the property of Toro. Toro will make the final decision whether to repair any existing part or assembly or replace it. Toro may use remanufactured parts for warranty repairs.

Note Regarding Deep Cycle Battery Warranty:

Deep cycle batteries have a specified total number of kilowatt-hours they can deliver during their lifetime. Operating, recharging, and maintenance techniques can extend or reduce total battery life. As the batteries in this product are consumed, the amount of useful work between charging intervals will slowly decrease until the battery is completely worn out. Replacement of worn out batteries, due to normal consumption, is the responsibility of the product owner. Battery replacement may be required during the normal product warranty period at owner's expense.

Maintenance is at Owner's Expense

Engine tune-up, lubrication cleaning and polishing, replacement of Items and Conditions Not Covered filters, coolant, and completing Recommended Maintenance are some of the normal services Toro products require that are at the owner's expense.

General Conditions

Repair by an Authorized Toro Distributor or Dealer is your sole remedy under this warranty.

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. Except for the Emissions warranty referenced below, if applicable, there is no other express warranty.

All implied warranties of merchantability and fitness for use are limited to the duration of this 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.

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Customers 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.