Form No. 3412-264 Rev A

Road Lights with Brake Lights Kit

Groundsmaster® 3400 Traction Unit

Model No. 02917—Serial No. 400000000 and Up

Installation Instructions

This kit is designed to provide a full set of road lights with mounting brackets and operation switches.

Installation

Loose Parts

Use the chart below to verify that all parts have been shipped.

Procedure	Description	Qty.	Use
1	No parts required	–	Prepare the machine.
2	Left, rear light bracket	1	Install the rear lights.
	Right, rear light bracket	1	
	Bolt (M16 x 110 mm)	2	
	Nut (M16)	2	
	Fuse (15 A)	2	
3	Dowty seal (1/4 inch)	1	Install the pressure switch.
	Pressure switch adapter	1	
	Pressure switch	1	
	Pressure switch cable	1	
4	Number plate bracket	1	Install the number plate bracket.
	2-way tab housing connector	1	
	Flasher relay	1	
	Standard shorter relay	1	
5	Center headlight mount	1	Install the front lights.
	Right headlight mount	1	
	Left headlight mount	1	
	Bolt (M6 x 20 mm)	8	
	Locknut (M6)	8	
	Bolt (M10 x 25 mm)	4	
	Locknut (M10)	4	
	Washer (3/8 inch)	8	
	Mounting bracket	2	
	4-way tab housing connector	2	
6	Instrument panel connector lead	1	Install the control panel switches.
	Hazard warning switch	1	
	Lights switch	1	
	Indicator switch	1	
	Horn button	1	
	Horn decal	1	
	Cable tie	24	

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CE

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3412-264 A

Procedure	Description	Qty.	Use
7	Reflector	2	Install the reflectors.
8	Serial label	1	Install the serial label.

Media and Additional Parts

Description	Qty.	Use
Installation Instructions	1	Read before installing and operating kit
Parts Catalog	1	Use to reference part numbers

1

Preparing the Machine

No Parts Required

Procedure

1. Park the machine on a level surface, lower the cutting unit, engage the parking brake, shut off the engine, and remove the key from the ignition switch.
2. Disconnect the negative (–) battery cable from the battery.

⚠ WARNING

Gases that emit from the battery are explosive.

Keep open flames and electrical spark away from the battery. When working with the battery, wear safety goggles and rubber gloves. Do not smoke.

2

Installing the Rear Lights

Parts needed for this procedure:

1	Left, rear light bracket
1	Right, rear light bracket
2	Bolt (M16 x 110 mm)
2	Nut (M16)
2	Fuse (15 A)

Procedure

Note: If you are fitting the rear lights to a machine with a serial number of 316999999 and lower, the rear light mounting brackets need to be replaced with the brackets that are supplied as loose parts.

The rear lights attach to the outside of the roll bar posts on the left and right sides of the machine. The lights will be inserted into the existing bolt holes in the roll bar.

1. Open the engine cover.
2. Lift the operator platform.
3. Remove the bulkhead behind the operator's seat by unscrewing the 4 bolts (Figure 1).

   Note: Removing the bulkhead enables access to the main wiring loom.

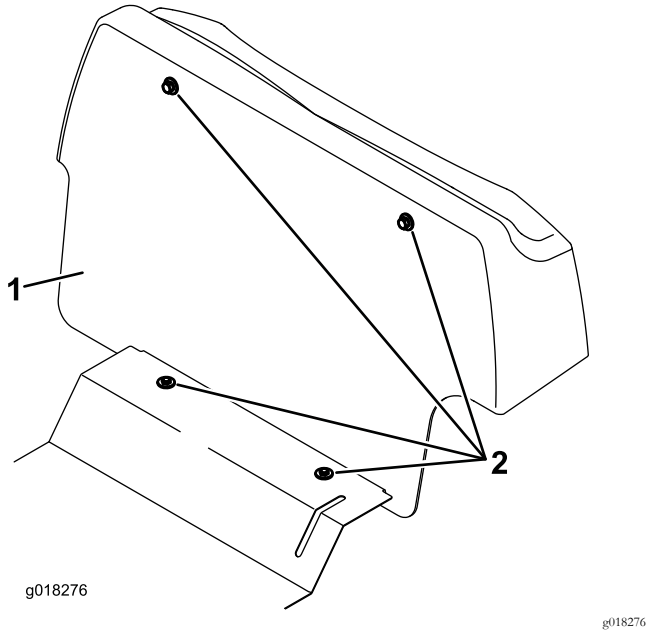


Figure 1

1. Bulkhead
2. Bolt (4)

4. Ensure that the roll bar pivot bolts and clamp bolts are in place and are tight, and or the securing pins are in place to retain the top hoop.
5. Remove the roll bar pivot bolt on the left side of the machine.
6. Align the indicated hole in the left rear light bracket with the hole in the roll bar and insert the new bolt (M16 x 110 mm), using the existing washers (Figure 2 or Figure 3).

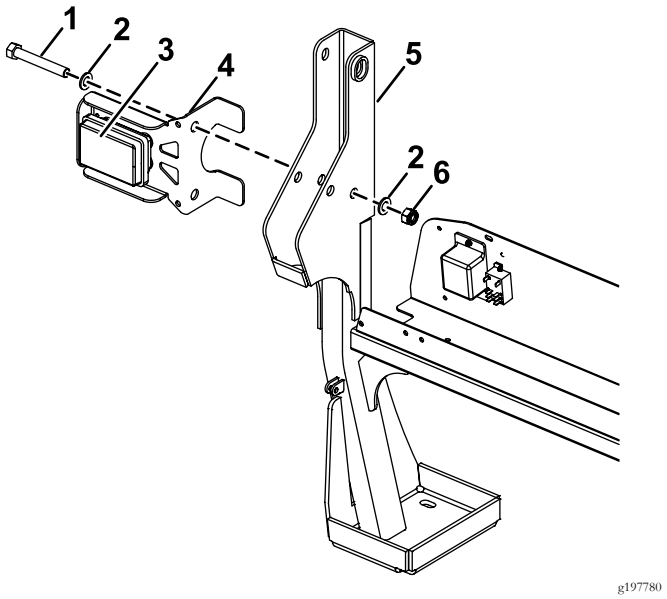


Figure 2

Machine with serial numbers 316999999 and lower

1. Bolt (M16 x 110 mm)
2. Existing washers
3. Orange indicator side up
4. Left rear light bracket
5. Roll bar
6. Nut (M16)

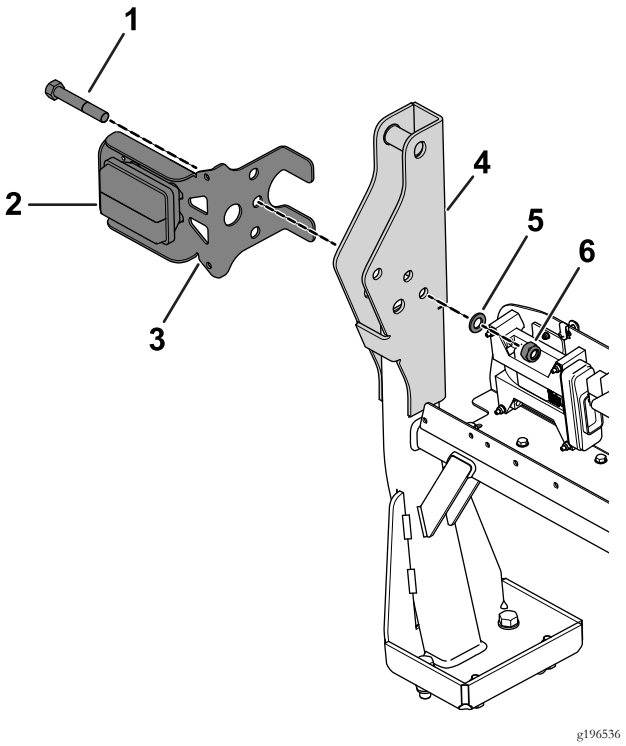


Figure 3

Machine with serial numbers 400000000 to 999999999

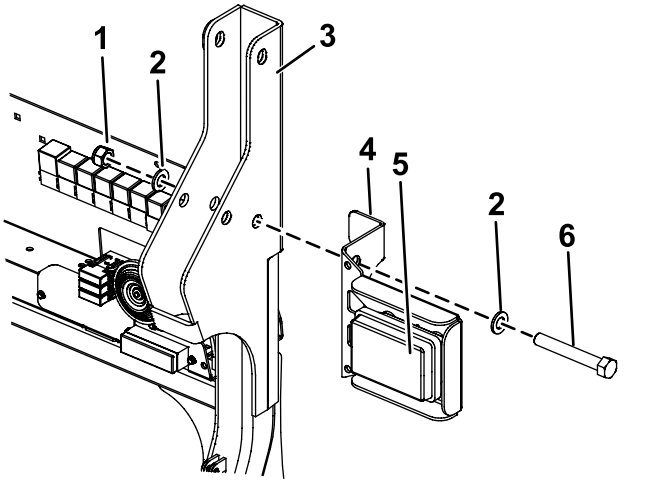
1. Bolt (M16 x 110 mm)
2. Orange indicator side up
3. Left rear light bracket
4. Roll bar
5. Existing washer
6. Nut (M16)

7. Install the new nut (M16) onto the bolt and torque it to 15 N·m (11 ft-lb).

   Note: Do not overtighten it as this will make the roll bar difficult to fold.

8. Remove the roll bar pivot bolt on the right side of the mower.

9. Align the indicated hole in the right rear light bracket with the hole in the roll bar and insert the new bolt (M16 x 110 mm), using the existing washers (Figure 4 or Figure 5).

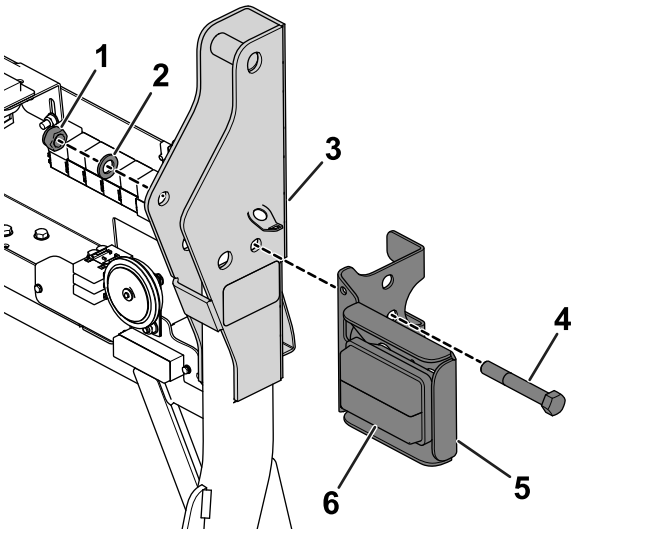


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Figure 4

Machine with serial numbers 316999999 and lower

1. Nut (M16)
2. Existing washers
3. Roll bar
4. Right rear light bracket
5. Orange indicator side up
6. Bolt (M16 x 110 mm)



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Figure 5

Machine with serial numbers 400000000 to 999999999

1. Nut (M16)
2. Existing washer
3. Roll bar
4. Bolt (M16 x 110 mm)
5. Right rear light bracket
6. Orange indicator side up

10. Install the new nut (M16) onto the bolt and torque it to 15 N·m (11 ft-lb).

    Note: Do not overtighten the nut, as this makes the roll bar difficult to fold.

    Note: If there is already a beacon kit fitted to the right or left side, use the existing bolt and the new nyloc nuts (M16) provided with this kit.

11. Feed all electrical cables down the front of the roll bar frame and onto the electrical mount panel.

12. Connect the cables to the main wiring harness of the machine which is located on the electrical bulkhead (Figure 6), as follows:

    A. Connect the 4-pin, left, rear, light-assembly, wiring connector to the corresponding 4-pin electrical connector on the left side of the main wiring harness.

    B. Connect the 4-pin, right, rear, light-assembly, wiring connector to the corresponding 4-pin electrical connector on the right side of the main wiring harness.

    Note: The 2-pin electrical connectors on the left and right rear-light assembly is required for the number-plate light. Only 1 of the 2-pin electrical connectors is used.

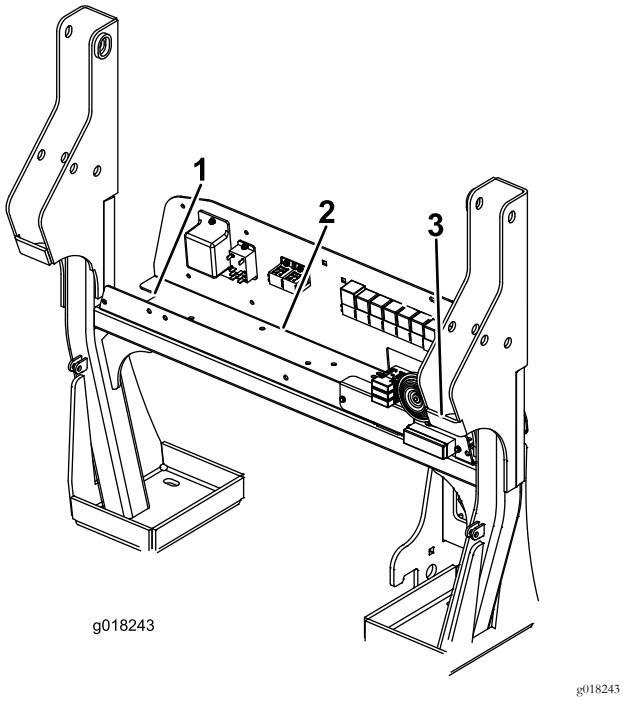


Figure 6

1. 4-pin, left, rear, light-assembly connector on the main wiring harness
2. 3-pin, electrical-pressure-switch, cable connector on the main wiring harness
3. 4-pin, left, rear, light-assembly connector on the main wiring harness

13. Install 2 fuses (15 A) into the fuse block. Use the first and third receptacles from the left end of the fuse block (Figure 7).

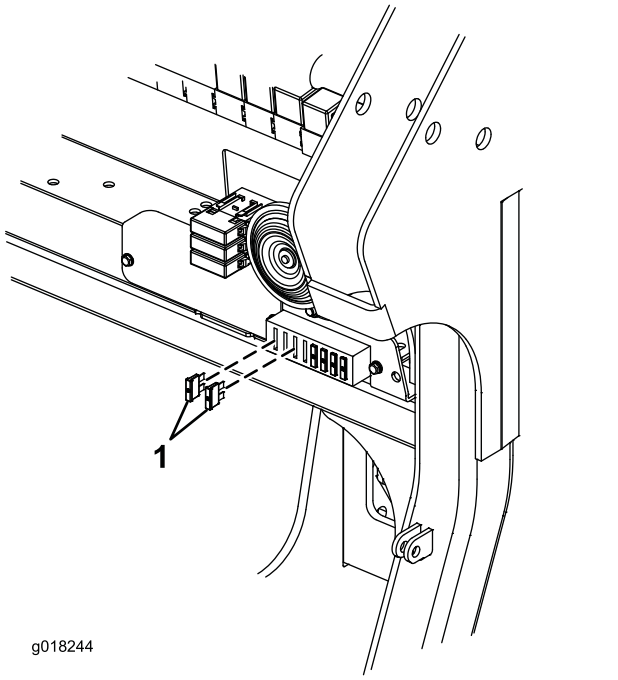


Figure 7

1. Fuse—15 amp (2)

3

Installing the Pressure Switch

Parts needed for this procedure:

1	Dowty seal (1/4 inch)
1	Pressure switch adapter
1	Pressure switch
1	Pressure switch cable

Procedure

The pressure switch controls the brake lights. The switch is screwed into the main transmission line.

1. Locate the 3 hose connections on the right side of the transmission pump. The lower front connection to the pump has a tee fitting with a blanking cap.
2. Remove this blanking cap from the tee fitting.
3. Screw the pressure switch adapter into the tee fitting using a dowty seal (1/4 inch) as shown in Figure 8.

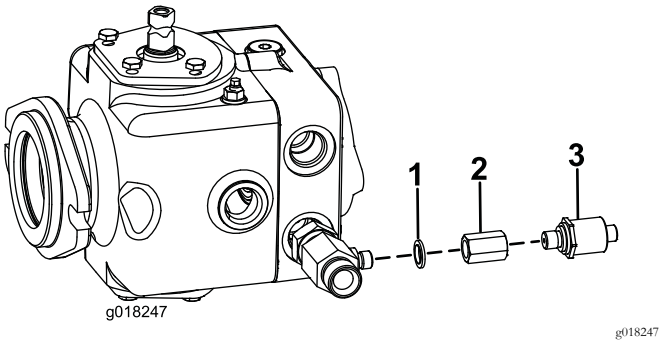


Figure 8

1. Dowty seal (1/4 inch)
2. Pressure-switch adapter
3. Pressure switch

4. Screw the pressure switch into this adapter (Figure 8). Torque the switch to 34 N·m (25 ft-lb).
5. Working on the electrical bulkhead, plug the 3-pin connector of the electrical pressure switch cable to the corresponding connector located on the main wiring harness of the machine (Figure 6 and Figure 9).

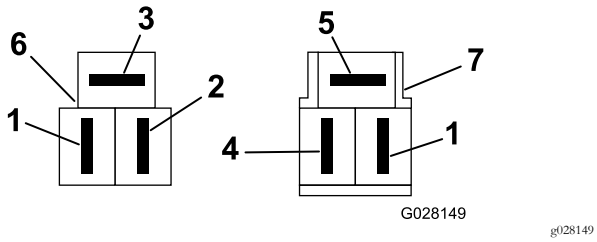


Figure 9

Connectors as viewed from the cable entry side

1. Green/Yellow
2. Yellow
3. Black
4. Brown
5. Blue
6. Pressure switch connector (main wiring harness)
7. Pressure switch cable connector

6. Run the electrical pressure switch cable from the electrical bulkhead, down the right roll bar post, and forward along the chassis rail to the pressure switch.
7. Plug the connector into the pressure switch and secure it.

4

Installing the Number Plate Bracket

Parts needed for this procedure:

1	Number plate bracket
1	2-way tab housing connector
1	Flasher relay
1	Standard shorter relay

Procedure

The number plate with light attaches to the bulkhead.

1. In the center of the plastic bulkhead cover, approximately 40 mm (1-1/2 inches) from the front, drill an 8 mm diameter hole (Figure 10).

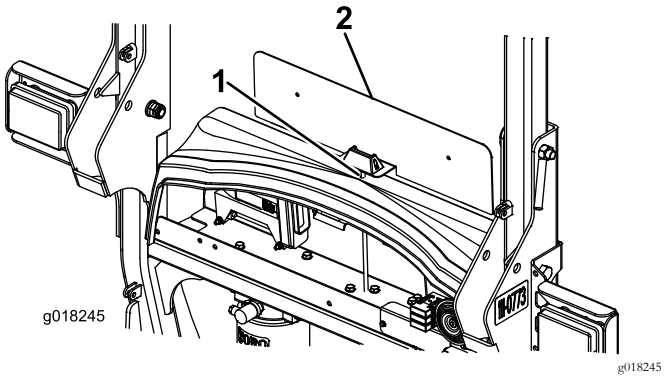


Figure 10

1. Drill a hole (8 mm) here.
2. Number plate bracket

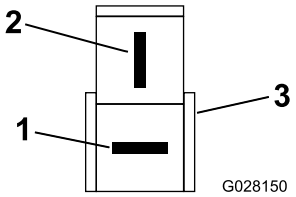
⚠ WARNING

Using a drill without proper eye protection may allow debris to enter the eye, causing injury.

When drilling or carrying out other operation, always wear eye protection.

2. Feed the number plate cable through the hole (8 mm) in the plastic bulkhead cover. Install the number plate bracket and the bulkhead with the bulkhead fasteners previously removed.

3. Push the 2-way tab housing connector onto the terminals of the number plate cable (Figure 11).

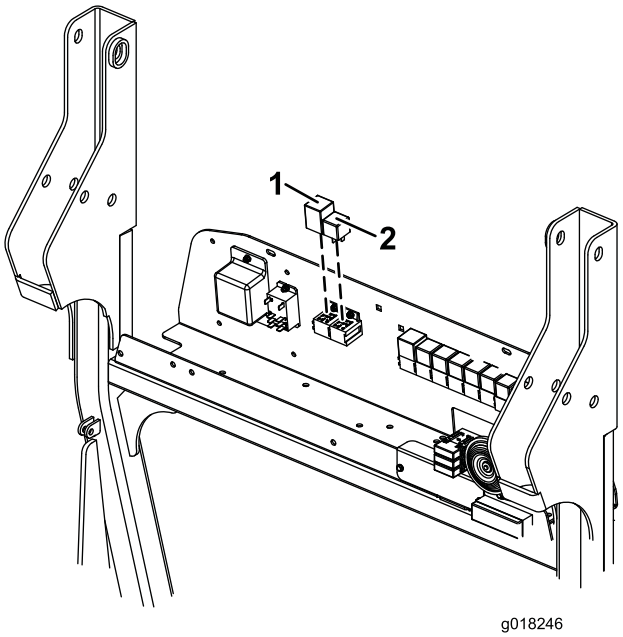


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Figure 11

1. Red wire
2. Black wire
3. 2-way tab housing connector

4. Connect the number-plate-light wiring to either the left or right rear-light-assembly-wiring, 2-pin electrical connector.
5. Plug the flasher relay into the left vacant-relay socket and the standard shorter relay into the right vacant-relay socket (Figure 12).



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Figure 12

1. Flasher relay
2. Standard shorter relay

5

Installing the Front Lights

Parts needed for this procedure:

1	Center headlight mount
1	Right headlight mount
1	Left headlight mount
8	Bolt (M6 x 20 mm)
8	Locknut (M6)
4	Bolt (M10 x 25 mm)
4	Locknut (M10)
8	Washer (3/8 inch)
2	Mounting bracket
2	4-way tab housing connector

Procedure

The front light assemblies attach to the center headlight mount, which attaches to the machine using two mounting brackets (Figure 13):

1. Install the 2 mounting brackets to the front of the machine using 2 bolts (M10 x 25 mm), 4 washers (3/8 inch), and 2 locknuts (M10) as shown in Figure 13.
2. Install the center headlight mount to the mounting brackets using 2 bolts (M10 x 25 mm), 4 washers (3/8 inch), and 2 locknuts (M10) as shown in Figure 13.
3. Apply anti-seize grease to fully coat the inside wall of the tube ends and all the surfaces of the springs and tube-end profiles (Figure 13).
4. While holding the right headlight mount, thread the wiring cable down through the end tubes and out from the headlight mount cutout (Figure 13).
5. Secure the right headlight mount to the center headlight mount using the 4 bolts (M6 x 20 mm) and 4 locknuts (M6) as shown in Figure 13.

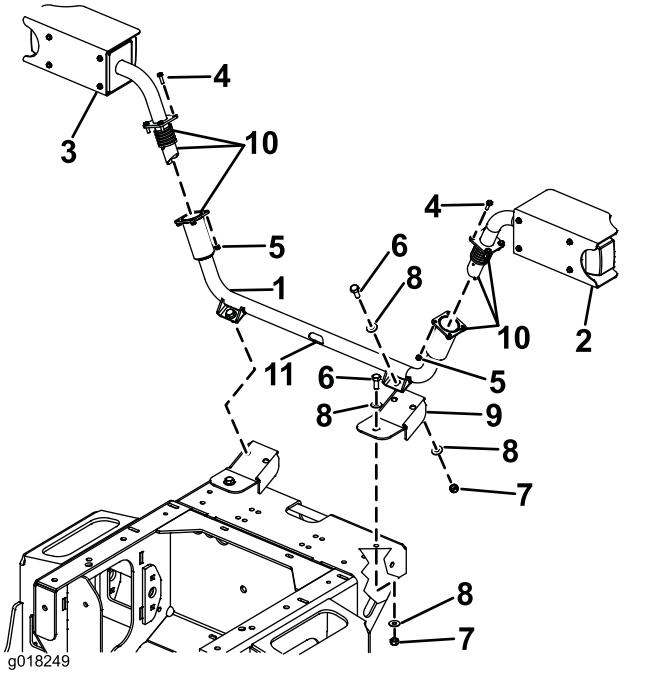


Figure 13

1. Center headlight mount
2. Right headlight mount
3. Left headlight mount
4. Screw (M6 x 20 mm)
5. Nyloc nut (M6)
6. Screw (M10 x 25 mm)
7. Nyloc nut (M10)
8. Washer (3/8 inch)
9. Mounting bracket
10. Apply anti-seize here
11. Headlight mount cutout

6. Install the 4 way tab-housing connector onto the wiring cable by pushing the pins into the back of the connector. (Figure 14). Identify and mark this connector as "R" to help with cable identification when making the connections to the machine main wiring harness.

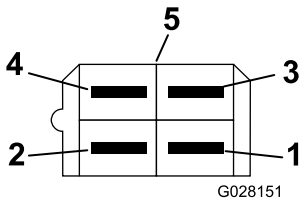


Figure 14

Connector as viewed from the cable entry side

1. Blue
2. Green
3. Red/White
4. Black
5. 4-way tab housing connector

7. Repeat steps 4 through 6, marking the connector with an "L" in step 6.
8. Pass the cables down through the cutout for the towing point and though the holes in the front chassis to the cutting unit manifold located under the operator's platform.
9. Locate the two 4-pin connectors on the main wiring harness located near to the cutter manifold.
10. Connect the connector on the machine wiring harness with the green/white wire to the identified left light assembly connector. (Figure 15).

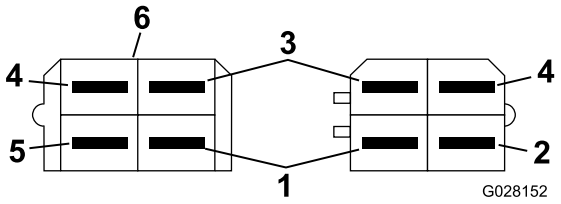


Figure 15

1. Blue
2. Green/white
3. Red/white
4. Black
5. Green
6. 4-way tab-housing connector

11. Connect the connector on the machine wiring harness with the green/red wire to the identified right light assembly connector (Figure 16).

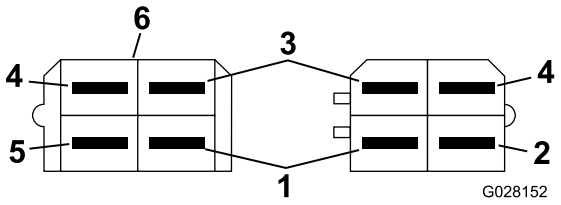


Figure 16

1. Blue
2. Green/red
3. Red/white
4. Black
5. Green
6. 4-way tab-housing connector

6

Installing the Control Panel Switches

Parts needed for this procedure:

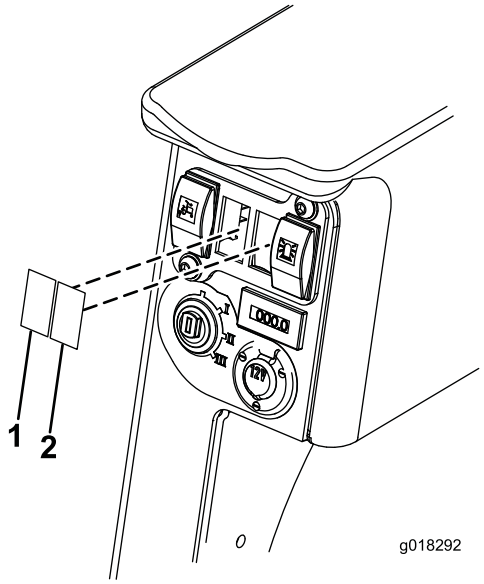
1	Instrument panel connector lead
1	Hazard warning switch
1	Lights switch
1	Indicator switch
1	Horn button
1	Horn decal
24	Cable tie

Procedure

1. Remove the 6 screws securing the control panel to the control pod.
2. Carefully lift off the panel.

   Note: Ensure that the connectors to the existing switches are not disturbed.
3. Install the instrument panel connector lead into the control arm.
4. Feed the connector lead instrument panel up through the opening in the bottom of the control pod so that the end with the 3 connectors are inside the control pod, and the end with the single large connector is fed down the control arm.
5. Remove the switch blank panels Figure 17.

   Note: The panels are located just above the key switch on the rear face of the control pod.



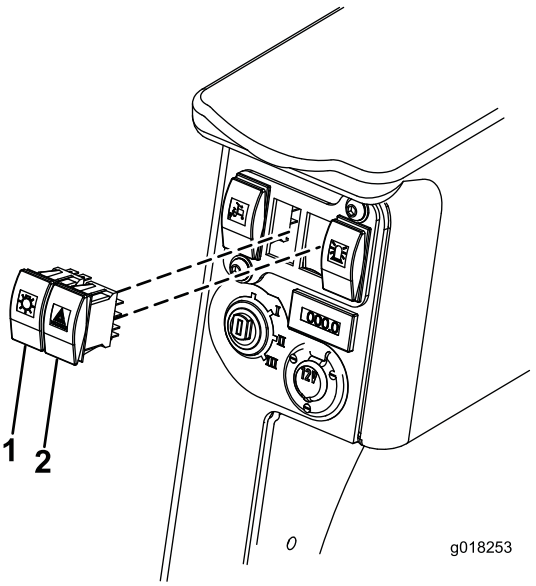
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Figure 17

1. Switch blank—light switch
2. Switch blank—hazard switch

6. Pass the hazard and light switch connectors through the switch hole.

   Note: The hazard and light connectors are on the shorter leads; the hazard connector is red and the light connector is black. The indicator connector is black and on the longer lead.
7. Connect the light and hazard switches to the correct connector and push the switch into the hole (Figure 18).



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Figure 18

1. Light switch
2. Hazard switch

8. On the control panel, remove the round plug (horn button) and the rectangular plug (indicator switch) shown in Figure 19.

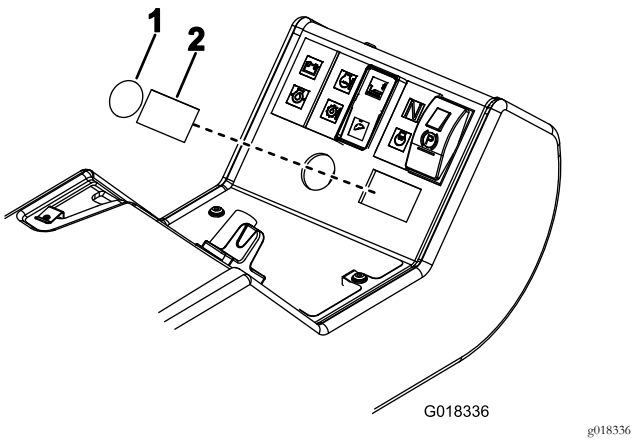


Figure 19

1. Round plug—horn button
2. Rectangular plug—indicator switch

9. Install the horn decal; line it up with the edges of the round and rectangular holes (Figure 20).

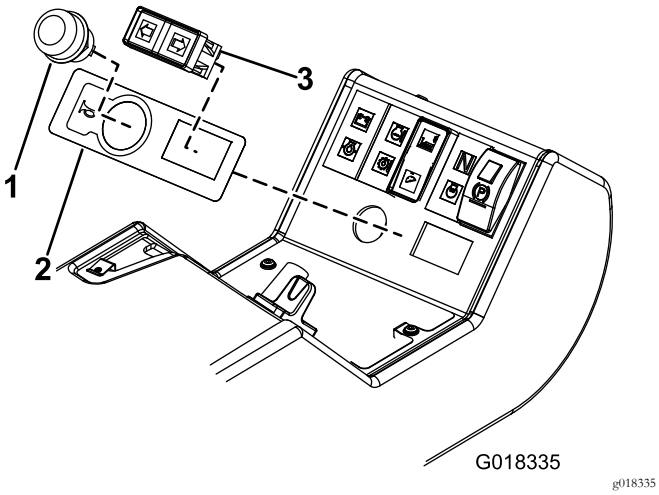


Figure 20

1. Horn button
2. Horn decal
3. Direction indicator switch

10. Install the horn button and the direction indicator switch onto the control panel (Figure 20). Install the direction indicator switch with the green/red wires to the left and the green/white wires to the right, as shown in Figure 21.

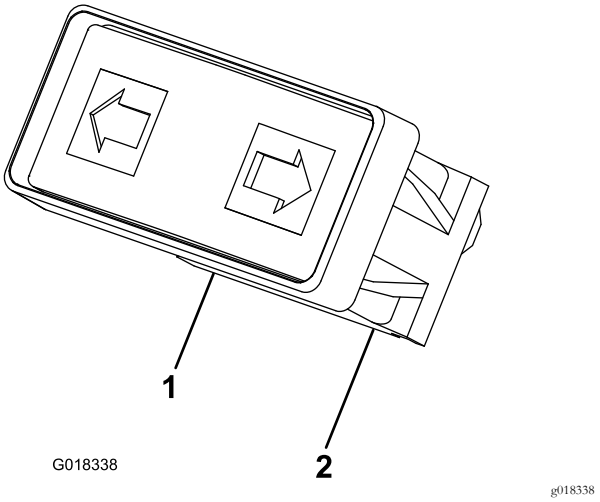


Figure 21

1. Green/Red
2. Green/White

11. Connect the direction indicator switch to the connector lead instrument panel.

    Note: The indicator connector is black and on the longer lead.

12. Connect the pink wire and the black/purple wire to the horn button.

    Note: The pink wire and the black/purple wire are located in the control panel.

13. Working under the operator platform, connect the connector lead instrument panel to the multi-pin connector on the machine's main electrical-wiring harness.

    Note: The multi-pin connector is located in the chassis rail to the right of the transmission pump.

14. Attach cable ties to all cables for the front lights, rear lights, and the pressure switch.

    Important: Ensure that the cable ties properly secure the cables. The ties will prevent the cables from becoming trapped or chafed.

15. Connect the negative battery cable.
16. Test the switches on the control panel to ensure that they are operating correctly.
17. Refit the control panel to ensure that no connectors have become detached and that no cables are nipped.
18. Lower and latch the engine cover and operator's platform.

7

Installing the Reflectors

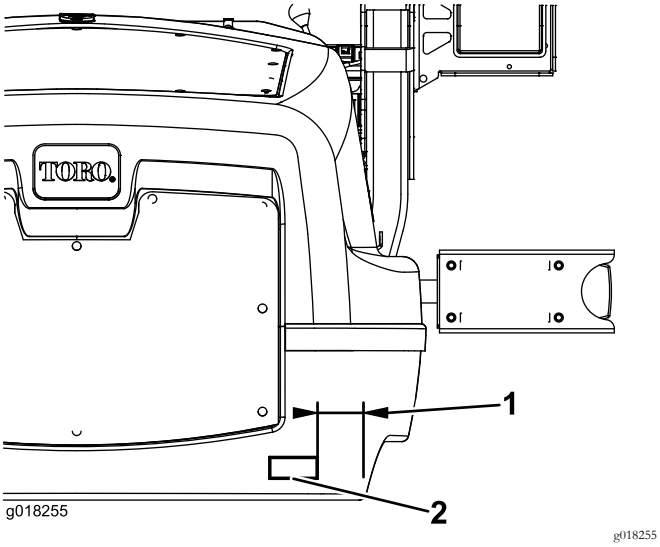
Parts needed for this procedure:

2	Reflector

Procedure

Affix a reflector to each side of the engine cover. Ensure that the outside edge of each reflector is adhered 100 mm (4 inches) from each edge of the engine cover (Figure 22).

Note: Ensure that the surface is clean before mounting the reflectors.



g018255

Figure 22

1. 100 mm (4 inches)
2. Reflector

8

Installing the Serial Label

Parts needed for this procedure:

1	Serial label

Procedure

Affix the serial label adjacent to the machine serial label.

Note: Ensure that the surface is clean before mounting the serial label.

Operation

Specifications

Voltage: 12 V

Adjusting the Headlights

Using the top screws shown in Figure 23, adjust the headlights per local standards.

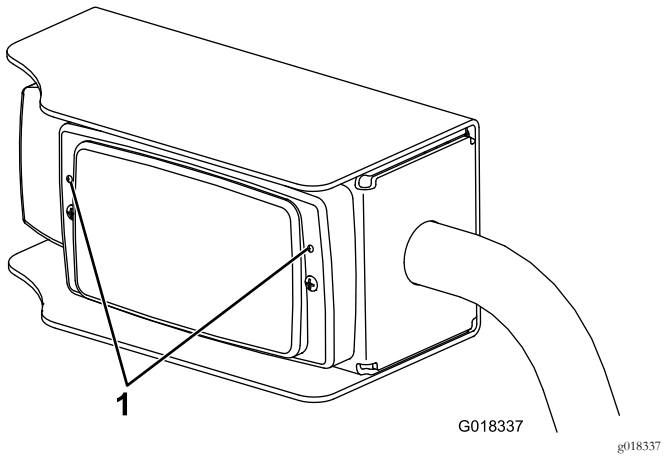


Figure 23

1. Headlight adjusting screws

Operating the Lights

Lights Symbols

The lights controls are marked with the symbols shown in Figure 24.

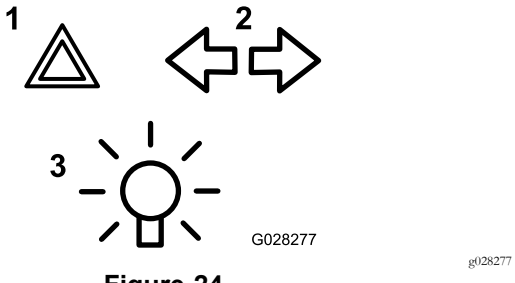


Figure 24

1. Hazard warning
2. Direction indicators
3. Lights—On/Off

Position Marker Lights (Front and Rear)

When you press the top of the switch, the switch illuminates and the red (rear) and white (front) marker lights come on.

Headlights

Rotate the ignition switch to position I to illuminate the headlights.

Hazard Lights

When you press the top of the hazard light switch, all 4 indicator lamps flash. The ignition switch does not need to be on for these to operate.

Direction Indicators

With the ignition switch at position I, press the relevant side of the direction indicator switch. The 2 indicator lamps on that side of the machine will flash.

Brake Lights

The brake lights automatically turn on when the machine is decelerating (when the control pedal is returning to neutral, when travelling in a forward direction only).

Maintenance

General Maintenance

Important: Replace all worn or damaged parts with genuine Toro parts.

1. Check that all lights are working on a regular basis.
2. Ensure that the headlights are adjusted correctly.
3. Clean the lights daily.

   Important: Do not use solvent-based products, as they may damage the light.

Replacing a Bulb

1. Remove the lens cover.
2. Replace the bulb.
3. Replace the lens cover.
4. Adjust the lights; refer to Adjusting the Headlights (page 12).

Notes:

Declaration of Incorporation

The Toro Company, 8111 Lyndale Ave. South, Bloomington, MN, USA declares that the following unit(s) conform(s) to the directives listed, when installed in accordance with the accompanying instructions onto certain Toro models as indicated on the relevant Declarations of Conformity.

Model No.	Serial No.	Product Description	Invoice Description	General Description	Directive
02917	400000000 and Up	Road Lights with Brake Lights Kit	KIT - ROAD LIGHTS W/BRAKE LIGHTS GM3400	Road and Brake Lights	2004/108/EC

Relevant technical documentation has been compiled as required per Part B of Annex VII of 2006/42/EC.

We will undertake to transmit, in response to requests by national authorities, relevant information on this partly completed machinery. The method of transmission shall be electronic transmittal.

This machinery shall not be put into service until incorporated into approved Toro models as indicated on the associated Declaration of Conformity and in accordance with all instructions, whereby it can be declared in conformity with all relevant Directives.

Certified:



David Klis
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International Distributor List

Distributor:	Country:	Phone Number:	Distributor:	Country:	Phone Number:
Agrolanc Kft	Hungary	36 27 539 640	Maquiver S.A.	Colombia	57 1 236 4079
Balama Prima Engineering Equip.	Hong Kong	852 2155 2163	Maruyama Mfg. Co. Inc.	Japan	81 3 3252 2285
B-Ray Corporation	Korea	82 32 551 2076	Mountfield a.s.	Czech Republic	420 255 704 220
Casco Sales Company	Puerto Rico	787 788 8383	Mountfield a.s.	Slovakia	420 255 704 220
Ceres S.A.	Costa Rica	506 239 1138	Munditol S.A.	Argentina	54 11 4 821 9999
CSSC Turf Equipment (pvt) Ltd.	Sri Lanka	94 11 2746100	Norma Garden	Russia	7 495 411 61 20
Cyril Johnston & Co.	Northern Ireland	44 2890 813 121	Oslinger Turf Equipment SA	Ecuador	593 4 239 6970
Cyril Johnston & Co.	Republic of Ireland	44 2890 813 121	Oy Hako Ground and Garden Ab	Finland	358 987 00733
Equiver	Mexico	52 55 539 95444	Parkland Products Ltd.	New Zealand	64 3 34 93760
Femco S.A.	Guatemala	502 442 3277	Perfetto	Poland	48 61 8 208 416
ForGarder OU	Estonia	372 384 6060	Pratoverde SRL.	Italy	39 049 9128 128
G.Y.K. Company Ltd.	Japan	81 726 325 861	Prochaska & Cie	Austria	43 1 278 5100
Geomechaniki of Athens	Greece	30 10 935 0054	RT Cohen 2004 Ltd.	Israel	972 986 17979
Golf international Turizm	Turkey	90 216 336 5993	Riversa	Spain	34 9 52 83 7500
Guandong Golden Star	China	86 20 876 51338	Lely Turfcare	Denmark	45 66 109 200
Hako Ground and Garden	Sweden	46 35 10 0000	Solvert S.A.S.	France	33 1 30 81 77 00
Hako Ground and Garden	Norway	47 22 90 7760	Spypros Stavrinides Limited	Cyprus	357 22 434131
Hayter Limited (U.K.)	United Kingdom	44 1279 723 444	Surge Systems India Limited	India	91 1 292299901
Hydroturf Int. Co Dubai	United Arab Emirates	97 14 347 9479	T-Markt Logistics Ltd.	Hungary	36 26 525 500
Hydroturf Egypt LLC	Egypt	202 519 4308	Toro Australia	Australia	61 3 9580 7355
Irrimac	Portugal	351 21 238 8260	Toro Europe NV	Belgium	32 14 562 960
Irrigation Products Int'l Pvt Ltd.	India	0091 44 2449 4387	Valtech	Morocco	212 5 3766 3636
Jean Heybroek b.v.	Netherlands	31 30 639 4611	Victus Emak	Poland	48 61 823 8369

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.

BY SHARING YOUR PERSONAL INFORMATION WITH US, YOU ARE CONSENTING TO THE PROCESSING OF YOUR PERSONAL INFORMATION AS DESCRIBED IN THIS PRIVACY NOTICE.

The Way Toro Uses Information
Toro may use your personal information to process warranty claims, to contact you in the event of a product recall and for any other purpose which we tell you about. Toro may share your information with Toro's affiliates, dealers or other business partners in connection with any of these activities. We will not sell your personal information to any other company. We reserve the right to disclose personal information in order to comply with applicable laws and with requests by the appropriate authorities, to operate our systems properly or for our own protection or that of other users.

Retention of your Personal Information
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.

Toro's Commitment to Security of Your Personal Information
We take reasonable precautions in order to protect the security of your personal information. We also take steps to maintain the accuracy and current status of personal information.

Access and Correction of your Personal Information
If you would like to review or correct your personal information, please contact us by email at legal@toro.com.

Australian Consumer Law

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

Toro General Commercial Product Warranty

A Two-Year 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:

Toro Commercial Products Service Department
Toro Warranty Company
8111 Lyndale Avenue South
Bloomington, MN 55420-1196

952–888–8801 or 800–952–2740
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, brake pads and linings, clutch linings, blades, reels, rollers and bearings (sealed or greasable), bed knives, spark plugs, castor wheels and bearings, tires, filters, belts, and certain sprayer components such as diaphragms, nozzles, and check valves, etc.
- Failures caused by outside influence. Conditions considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved fuels, coolants, lubricants, additives, fertilizers, water, or chemicals, etc.
- Failure or performance issues due to the use of fuels (e.g. gasoline, diesel, or biodiesel) that do not conform to their respective industry standards.
- 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.

Deep Cycle and Lithium-Ion Battery Warranty:

Deep cycle and Lithium-Ion 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. Note: (Lithium-Ion battery only): A Lithium-Ion battery has a part only prorated warranty beginning year 3 through year 5 based on the time in service and kilowatt hours used. Refer to the *Operator's Manual* for additional information.

Maintenance is at Owner's Expense

Engine tune-up, lubrication, cleaning and polishing, replacement of 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.

Note regarding engine warranty:

The Emissions Control System on your Product may be covered by a separate warranty meeting requirements established by the U.S. Environmental Protection Agency (EPA) and/or the California Air Resources Board (CARB). The hour limitations set forth above do not apply to the Emissions Control System Warranty. Refer to the Engine Emission Control Warranty Statement supplied with your product or contained in the engine manufacturer's documentation for details

Countries Other than the United States or Canada

Customers who have purchased Toro products exported from 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.

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