



LED Beacon Kit

Groundsmaster® 3200 or 3300 Series Traction Unit

Model No. 31996

Installation Instructions

Installation

Loose Parts

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

Procedure	Description	Qty.	Use
1	No parts required	–	Prepare for installation.
2	Beacon wire harness Beacon mount Beacon socket Beacon light Bolt (5/16 x 1 inch) Nut (5/16 inch)— for machines without a cab Light switch	1 1 1 1 2 1 1	Install the beacon.

1

Preparing for Installation

No Parts Required

Procedure

Important: This kit requires the installation of a Road Light Kit, an Accessory Control Kit, or a ROPS Work Light kit before the Beacon Kit can be installed. Contact your authorized Toro distributor for more information.

Note: Retain all removed parts for later installation unless otherwise noted.

1. Park the machine on a level surface, lower the attachment, shut off the engine, engage the parking brake, and remove the key.
2. Disconnect the negative (-) battery cable from the battery; refer to the electrical system maintenance section of the traction unit *Operator's Manual*.



2

Installing the Beacon

Parts needed for this procedure:

1	Beacon wire harness
1	Beacon mount
1	Beacon socket
1	Beacon light
2	Bolt (5/16 x 1 inch)
1	Nut (5/16 inch)— for machines without a cab
1	Light switch

For Machines with a Cab

1. Remove the cab roof as shown in [Figure 1](#).

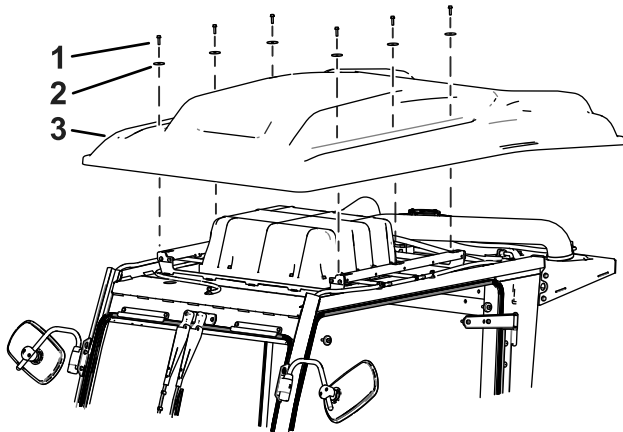
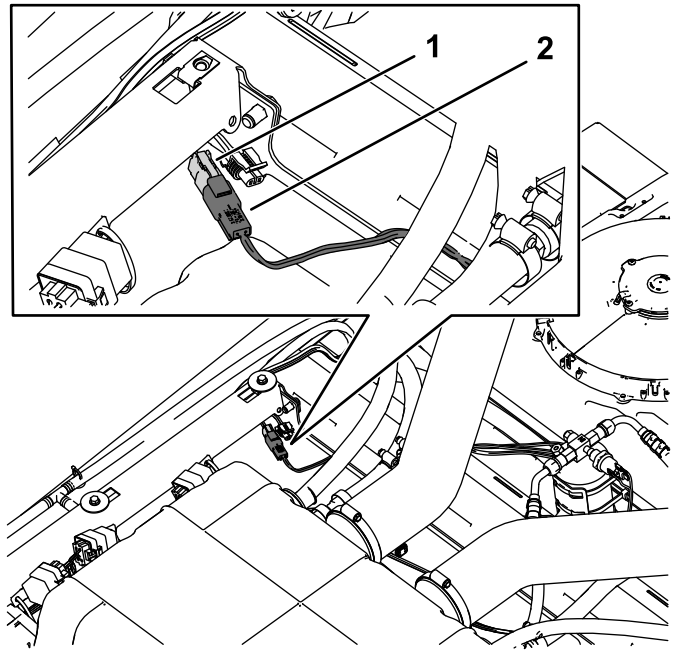


Figure 1

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1. Bolt
2. Washer
3. Cab roof

2. On top of the cab, locate the loose 2-pin socket on the cab wire harness and connect the beacon harness power connector ([Figure 2](#)).

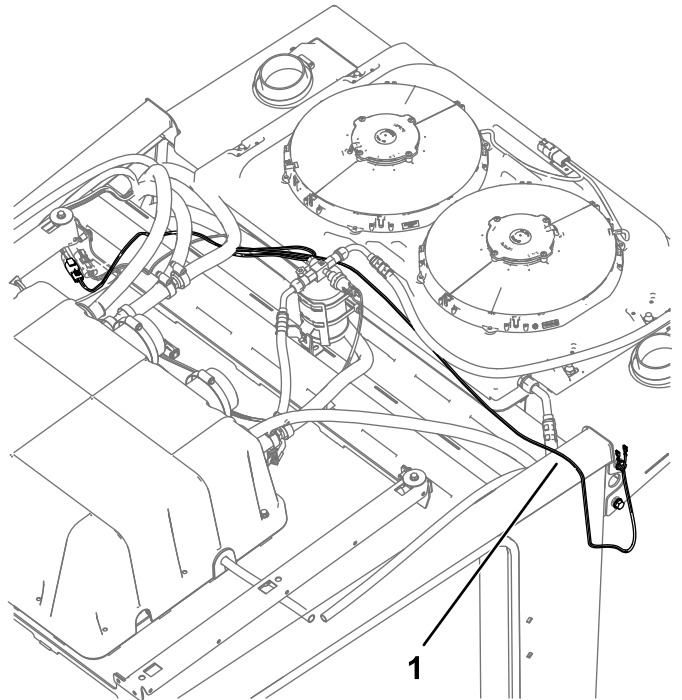


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Figure 2

1. 2-pin socket
2. Beacon harness power connector

3. Route the beacon harness and connectors as shown in [Figure 3](#).



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Figure 3

1. Beacon harness routing

- Remove the 2 screws behind the left door of the cab as shown in [Figure 4](#).

Note: You may discard these screws.

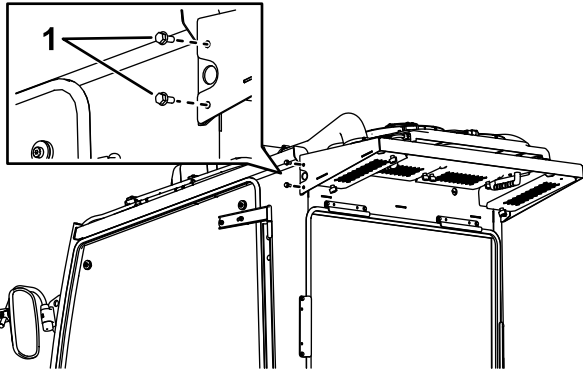


Figure 4

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- Remove these screws.

- Install the beacon bracket to the cab ([Figure 6](#)).
- Pull the beacon harness up through the bottom of the hole in the beacon mount.
- Connect the loose beacon harness connectors to the spades in the beacon socket connector ([Figure 5](#)).

Note: The beacon connector can be threaded out of the beacon socket for connection ([Figure 6](#)).

- Connect the red wire to the center beacon spade.
- Connect the black wire to the outer beacon spade.

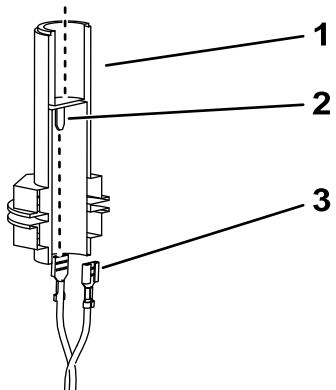


Figure 5

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- | | |
|---------------------|------------------------------|
| 1. Beacon socket | 3. Beacon harness connectors |
| 2. Beacon spade (2) | |

- Assemble the beacon to the bracket as shown in [Figure 6](#).

Note: Ensure that the assembly is secure by tightening the wing nut on the beacon and the jam nuts on the socket once assembled.

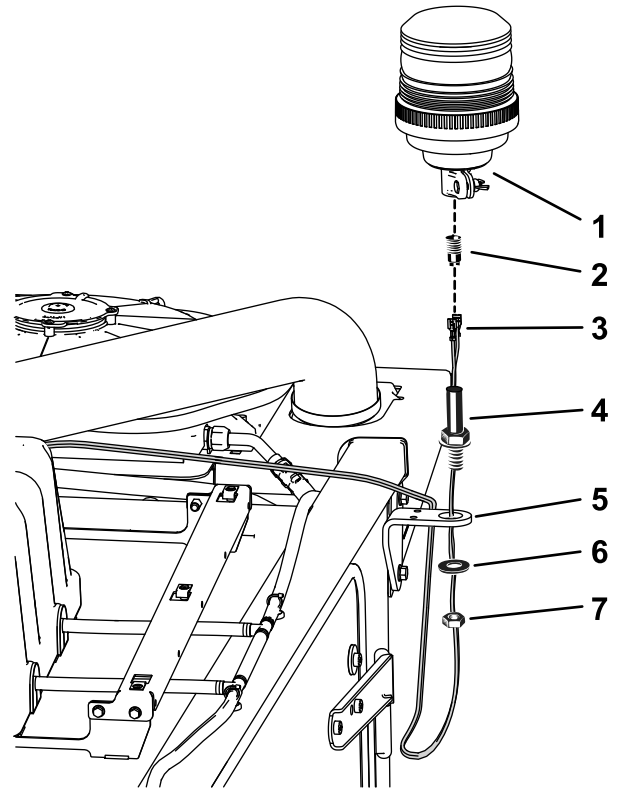


Figure 6

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- | | |
|----------------------------|-------------------------|
| 1. Beacon light | 5. Beacon mount bracket |
| 2. Beacon connector | 6. Washer |
| 3. Wire harness connectors | 7. Jam nut |
| 4. Beacon socket | |

- Remove the 4 hex-socket head screws securing the control cover and remove it ([Figure 7](#)).

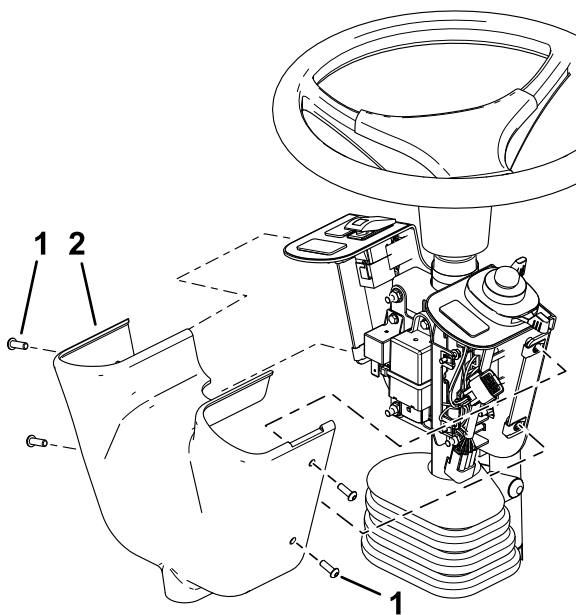


Figure 7

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1. Control cover
2. Hex-socket head screw

10. Remove the hole plug and install the beacon switch with the raised end facing up (Figure 8).
11. Connect the beacon connector to the switch (Figure 8).

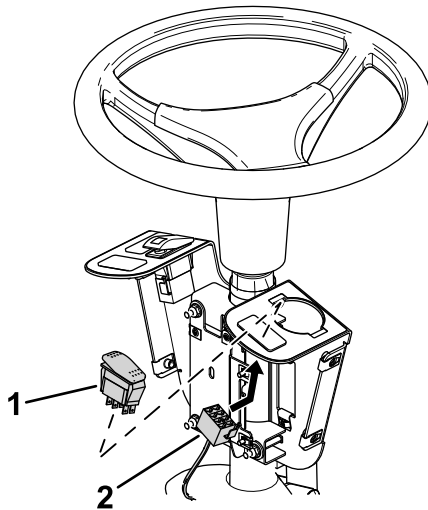


Figure 8

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1. Beacon switch
2. Beacon connector

12. Install the control cover as shown in Figure 7.
13. Install the cab roof as shown in 1 Preparing for Installation (page 1).
14. Connect the battery; refer to the electrical system maintenance section of the traction unit *Operator's Manual*.

For Machines with a ROPS

1. Remove the rear nuts and bolts from the work light bracket as shown in Figure 9.

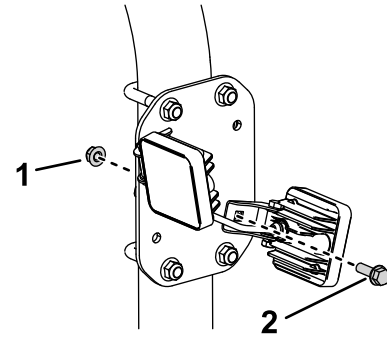


Figure 9

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1. Nut
2. Bolt

2. Assemble the beacon to the bracket and install the beacon assembly as shown in Figure 10.

Note: Ensure that the assembly is secure by tightening the wing nut on the beacon and the jam nuts on the socket once assembled.

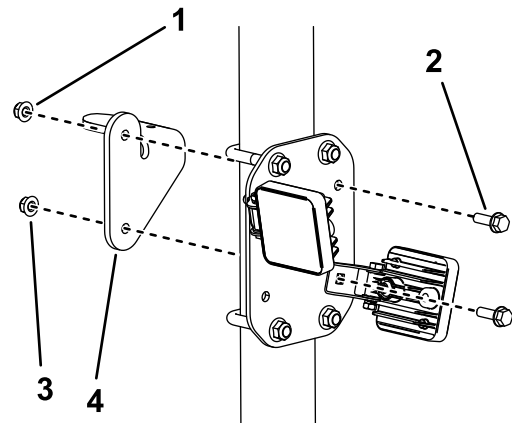


Figure 10

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1. Beacon assembly
2. Use the kit bolts and nut here.
3. Use the existing nut here.
4. Beacon bracket here.

3. Pull the beacon harness up through the bottom of the hole in the beacon mount.

- Connect the loose work light harness connectors to the spades in the beacon socket (Figure 11).

Note: The beacon connector can be threaded out of the beacon socket for connection (Figure 12).

- Connect the red wire to the center beacon spade.
- Connect the black wire to the outer beacon spade.

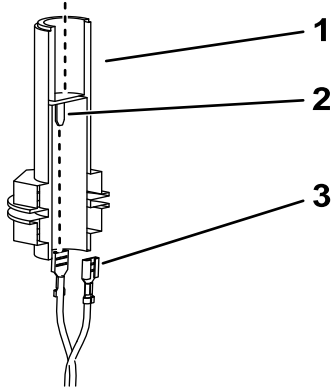


Figure 11

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- | | |
|---------------------|----------------------------------|
| 1. Beacon socket | 3. Work light harness connectors |
| 2. Beacon spade (2) | |

- Assemble the beacon to the bracket as shown in Figure 12.

Note: Ensure that the assembly is secure by tightening the wing nut on the beacon and the jam nuts on the socket once assembled.

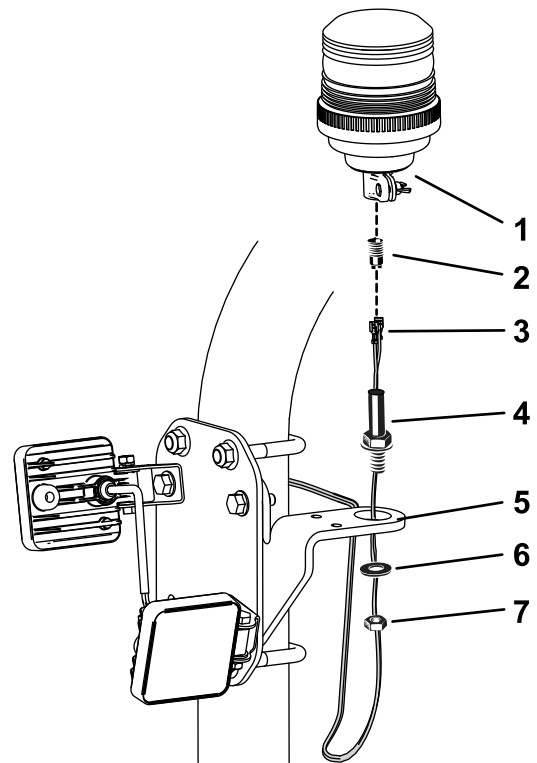


Figure 12

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- | | |
|----------------------------|-------------------------|
| 1. Beacon light | 5. Beacon mount bracket |
| 2. Beacon connector | 6. Washer |
| 3. Wire harness connectors | 7. Jam nut |
| 4. Beacon socket | |

- Connect the beacon switch to the work light switch assembly as shown in Figure 13.

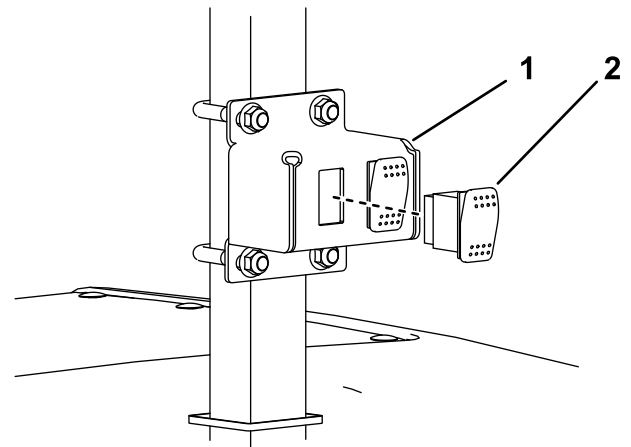


Figure 13

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- | | |
|--------------------------------|------------------|
| 1. Work light switch assembly. | 2. Beacon switch |
|--------------------------------|------------------|

- Connect the battery; refer to the electrical system maintenance section of the traction unit *Operator's Manual*.

Operation

Controls

Beacon Switch

Press the beacon switch to the ON position to activate the beacon.

Notes:



Count on it.