Seat Belt Alarm Kit

Groundsmaster® 3200 or 3300 Series Traction Unit with ROPS

Model No. 50212

Installation Instructions

This kit is compatible with traction unit models 31800, 31802, 31900A, 31901A, 31902A, 31903A, 31907A, and 31909A.

Safety

Safety and Instructional Decals

Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.

Decal Part: 164-7051



s_decal164-7051

1 Alarm

Installation

Preparing the Machine

⚠ CAUTION ⚠

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

Remove the key from the ignition switch before you do any maintenance.

1. Park the machine on a level surface, disengage the PTO, lower the cutting units, and engage the parking brake.
2. Shut off the engine, remove the key, wait for all moving parts to stop, and allow the engine to cool.

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Bloomington, MN 55044

Register at
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Disconnecting the Battery

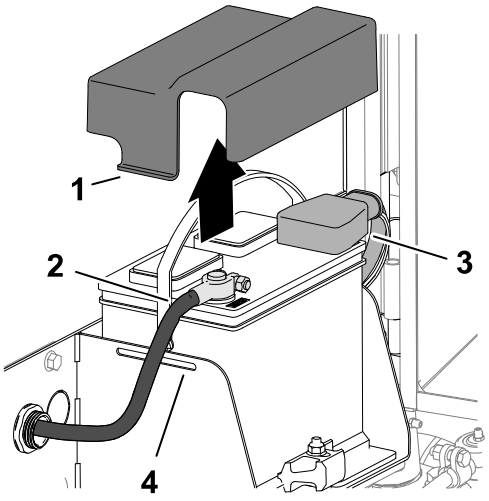
⚠ DANGER ⚠

Battery electrolyte contains sulfuric acid, which is fatal if consumed and causes severe burns.

- ***Do not drink electrolyte and avoid contact with skin, eyes, or clothing.***
- ***Wear safety glasses and rubber gloves.***
- ***Fill the battery where clean water is always available for flushing the skin.***

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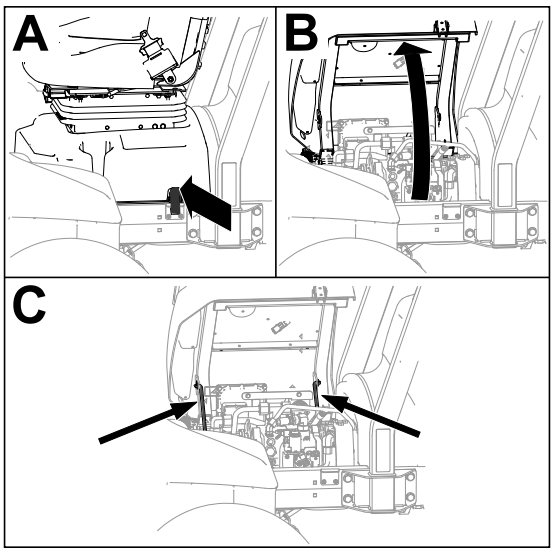
1. Depending on the machine model, open either the screen or the hood to access the battery.
2. Remove the cover (1) from the battery tray (4) by pressing the sides of the battery cover.
3. Disconnect the negative battery cable (2).
4. Slide the insulator cover (3) off the positive battery-cable clamp, and disconnect the positive battery cable.
5. Close and latch the screen/hood.



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Tilting the Seat

1. Unlatch the seat base (A).
2. Tilt the seat and base open (B).
3. Support it with the prop rods (C).



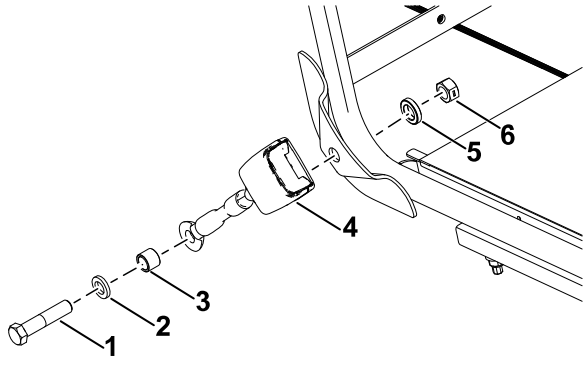
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Replacing the Seat Belt Buckle

Parts Required

1	Seat belt buckle (part no. 161-8972)

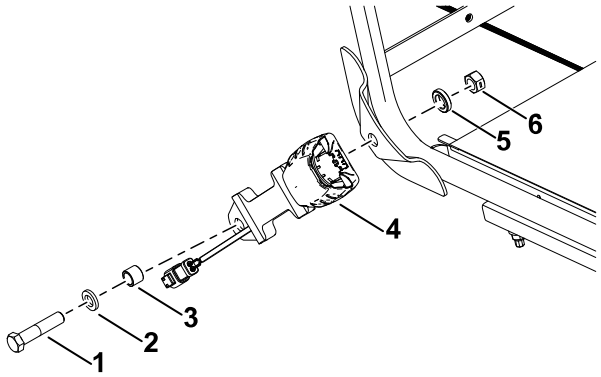
1. Remove the existing seat belt buckle from the seat base.



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(1) Bolt
(2) Lock washer
(3) Large spacer
(4) Seat belt buckle
(5) Small spacer
(6) Nut

2. Install the new seat belt buckle and secure using the previously removed hardware.



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(1) Bolt
(2) Lock washer
(3) Large spacer
(4) Seat belt buckle
(5) Small spacer
(6) Nut

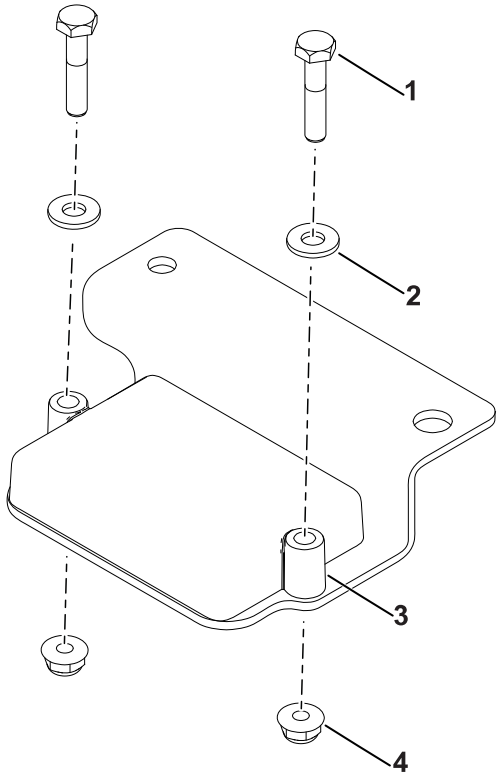
3. Torque the bolt to **55 N·m (41 ft-lb)**.

Installing the Inertial Measurement Unit (IMU)

Parts Required

1	IMU
2	Bolt (1/4 x 1-1/4 inches)
2	Washer
2	Nut (1/4 inches)

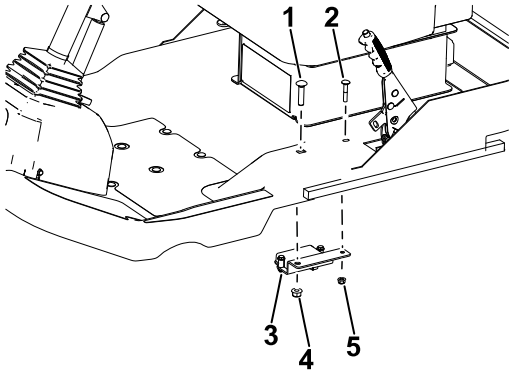
1. Install the IMU to the existing bracket using 2 nuts, 2 washers, and 2 bolts (1/4 x 1-1/4 inches).



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(1) Bolt
(2) Washer
(3) IMU
(4) Nut

2. Remove the side panel cover and parking brake cover (for diesel machines).
3. Secure the bracket to the machine using the previously removed hardware.



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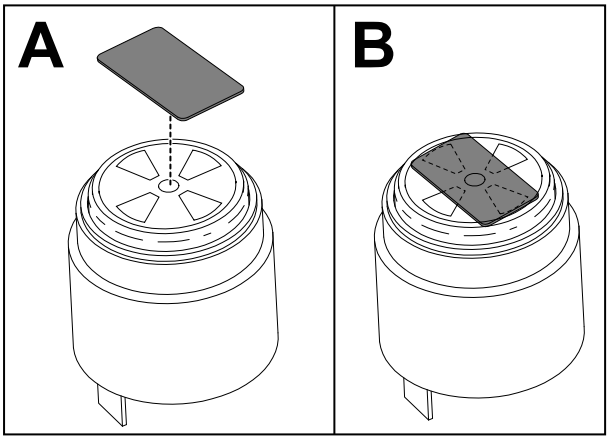
1. Bolt (7/16 x 2 inches)
2. Bolt (5/16 x 1-3/4 inches)
3. Bracket
4. Nut (7/16 inches)
5. Nut (5/16 inches)

Installing the Alarm

Parts Required

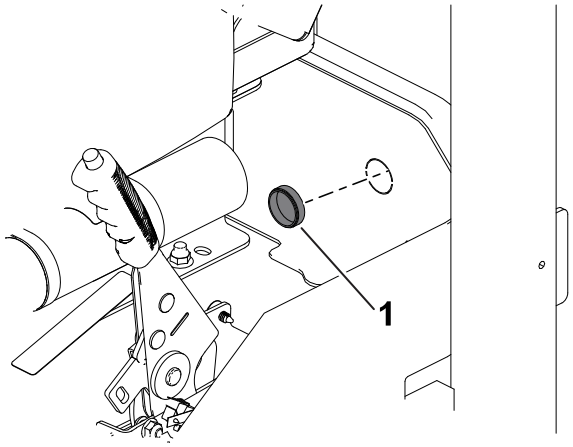
1	Alarm
1	Alarm decal
1	Plastic nut

1. Install the alarm decal on the top of the alarm in the orientation shown.



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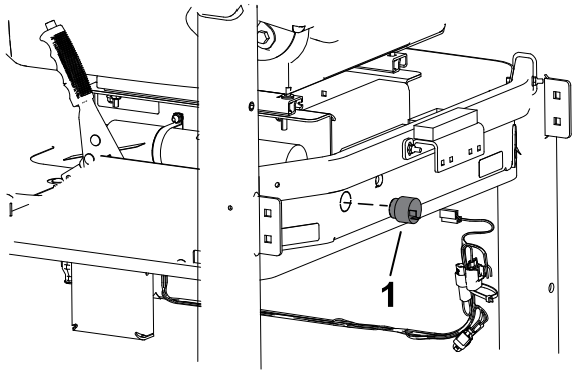
2. Insert the plastic nut from inside the machine.



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(1) Plastic nut

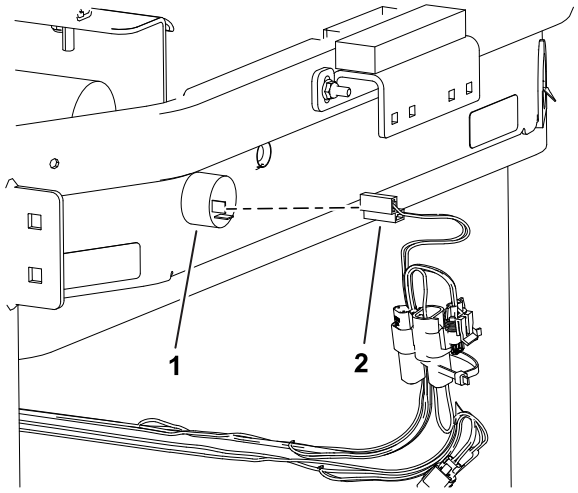
3. Thread the alarm into the plastic nut from the back of the machine.



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1 Alarm

4. Connect the 2-pin connector on the wire harness to the alarm.



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1 Alarm

2 2–pin connector

5. Reinstall the parking brake cover.

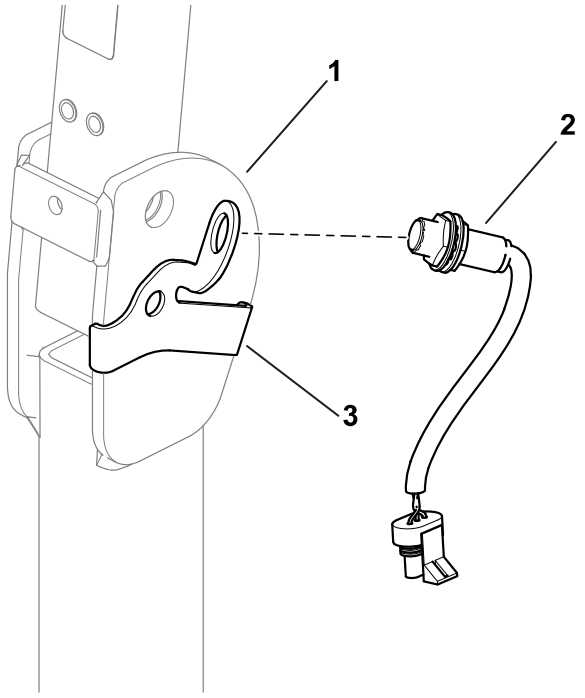
Installing the Proximity Sensor

Parts Required

1	Proximity sensor
1	Sensor mounting bracket
1	Bolt (1/2 x 3-1/2 inches)
1	Nut (1/2 inch)

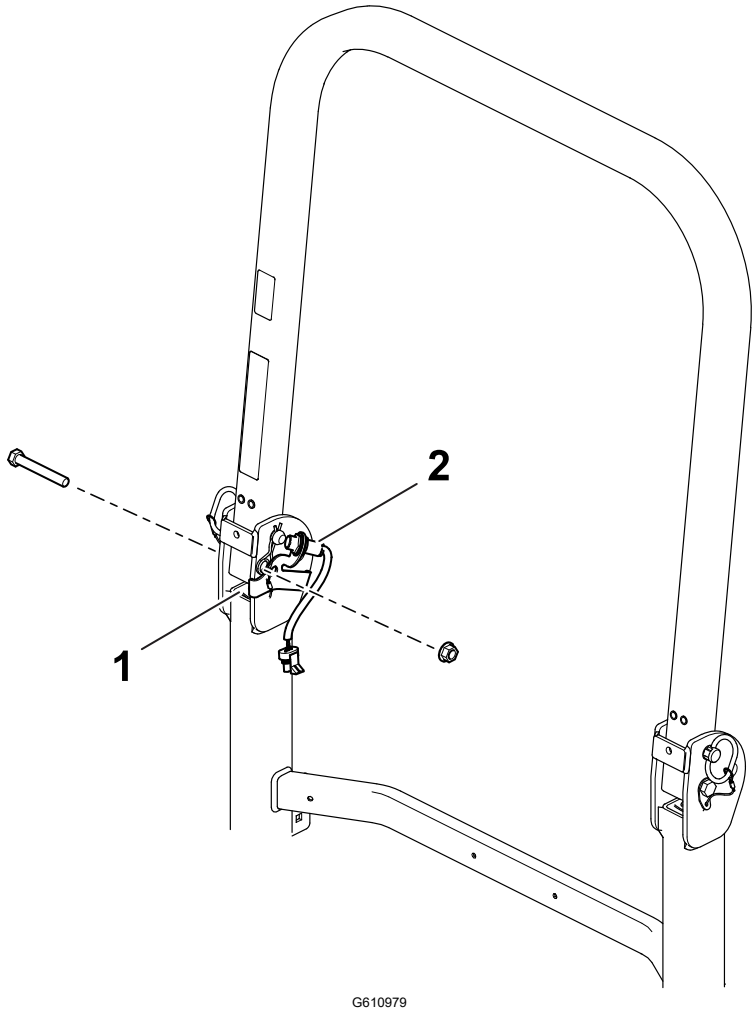
Note: ROPS must be fully upright during installation.

1. Install the proximity sensor to the sensor mounting bracket as shown.



(1) ROPS
(2) Proximity Sensor
(3) Sensor Mounting Bracket

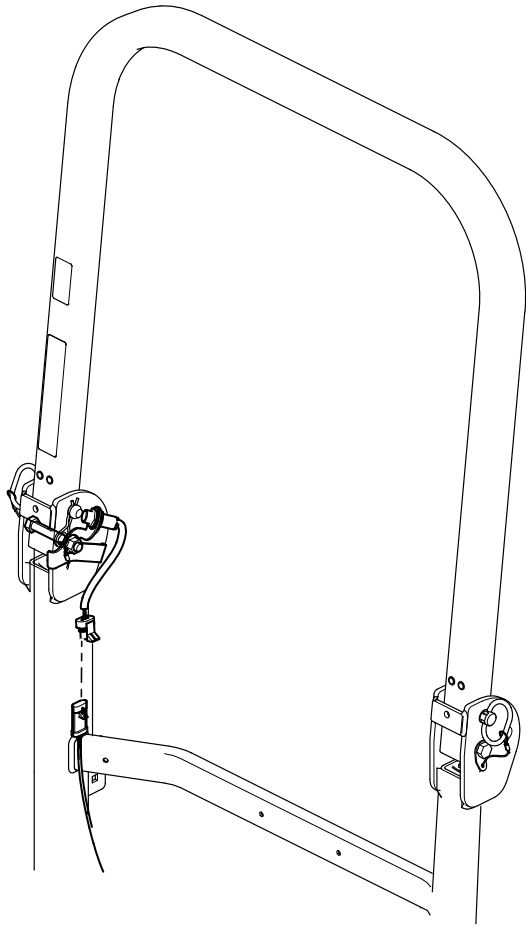
2. Install the proximity sensor and sensor mounting bracket to the ROPS with 1 bolt (1/2 x 3-1/2 inches) and 1 nut (1/2 inch).



1 Sensor mounting bracket

2 Proximity sensor

3. Adjust the sensor so that it is 5 mm or less from the ROPS pin.
4. Install the ROPS wire harness connector on the sensor.



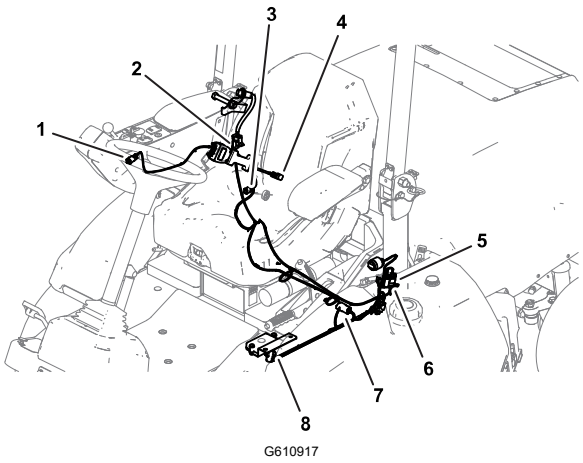
5. Ensure that the wire harness is not in contact with moving parts, pinch points, or heat sources.
6. Discard the old bolt and nut.

Routing the Wire Harness

Parts Required

1	Wire harness
2	Cable tie

1. Route the kit wire harness along the machine wire harness.



(1) Wire harness connector
(2) Wire harness connector
(3) ROPS wire harness connector
(4) Seat belt buckle wire harness connector
(5) Wire harness connector (expansion port)
(6) Audio alarm wire harness connector
(7) Wire harness connector
(8) IMU wire harness connector

2. Confirm that all connections are secured to the kit wire harness:

   Connect the 3-pin connector on the harness (3) to the ROPS connector .

   Connect the harness (4) to the seat belt buckle.

   Connect the 3-pin connector on the harness (5) to the expansion port on the main wire harness.

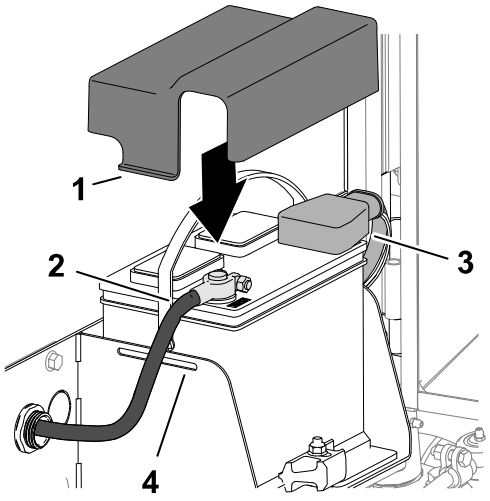
   Connect the 12-pin connector on the harness to the IMU (8).

   Connect remaining wire harness connections (1)(2)(7) as needed.

3. Secure the kit wire harness under the rear of the seat with 2 cable ties to the wire harness.
4. Ensure that the wire harness is not in contact with moving parts, pinch points, or heat sources.

Connecting the Battery

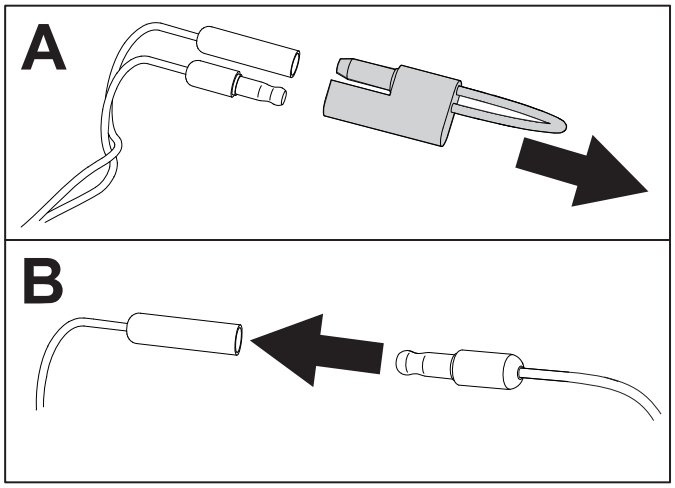
1. Install the positive battery cable (red) [3] to the positive (+) battery post.
2. Install the negative battery cable (black) [2] to the negative (-) battery post.
3. Apply a coat of Grafo 112X (skin-over) grease, Toro Part No. 505-47 to the battery posts and battery-cable clamps.
4. Slide the rubber boot over the positive battery-cable clamp.
5. Assemble the cover over the battery, inserting the tabs [1] of the cover into the slots [4] in the battery tray.
6. Close and latch the screen/hood.



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Calibrating the Kit

1. Move the machine to level ground and ensure that the vehicle is not moved during calibration.
2. Locate the calibration jumper on the alarm harness located near the IMU.
3. Remove the calibration jumper from the 2 bullet terminals and connect the 2 terminals together.



G610386

4. Turn on the machine and allow at least 30 seconds for automatic calibration. Once complete, the InfoCenter will display a calibration confirmation.

   Note: Ensure that the vehicle is not moved during calibration.
5. Turn off the machine, disconnect the terminals, and install the calibration jumper onto the 2 bullet terminals.

Testing the Alarm Function

1. Unlatch the seat belt.
2. Briefly drive the machine in an open area.
3. Verify that the audible alarm is active.
4. Verify that the visual alarm icon  appears on the InfoCenter.

Notes:

Notes:


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