Seat Belt Alarm Kit

Groundsmaster® 4500, 4700, or Reelmaster® 7000 Series Traction Unit with ROPS

Model No. 50262

Installation Instructions

Note: This kit is compatible with traction unit models 30885, 30895, 30887, 30899, 03780, and 03781.

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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Disconnecting the Battery

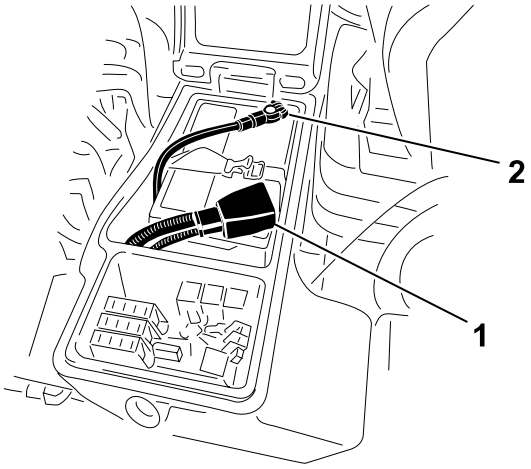
⚠ DANGER ⚠

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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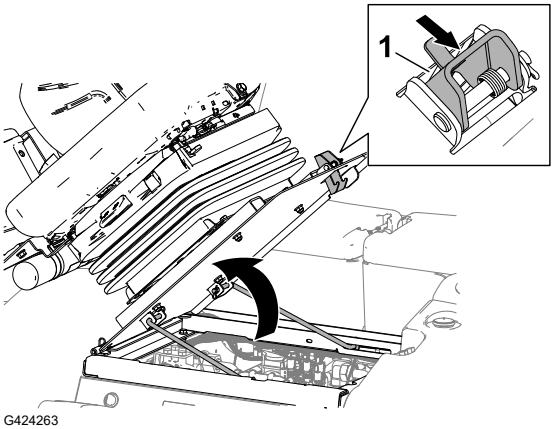
1. Open the battery-compartment cover.
2. Disconnect the negative battery cable ②.
3. Slide the rubber boot off the positive battery-cable clamp, and disconnect the positive battery cable ①.



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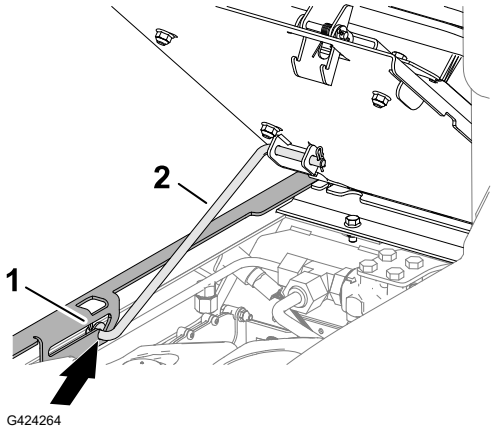
Tilting the Seat

1. Move the seat latch ① outward and carefully rotate the seat up.



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2. Ensure that the forward prop rod (2) seats in the slot detent of the rod-guide plate (1).

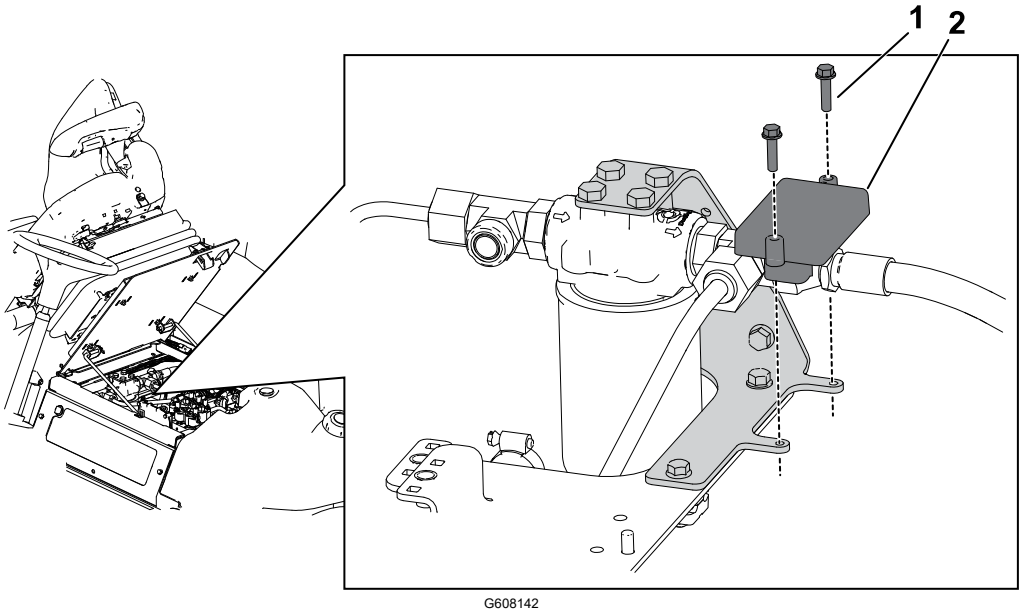


Installing the Inertial Measurement Unit (IMU)

Parts Required

1	IMU
2	Bolt (1/4 x 1 inch)

1. Install the IMU onto the oil filter bracket with 2 bolts (1/4 x 1 inch).



(1) Bolt (1/4 x 1 inch)

(2) IMU

2. Close and latch the seat base.

Replacing the Seat Belt Buckle

Parts Required

1	Seat belt buckle

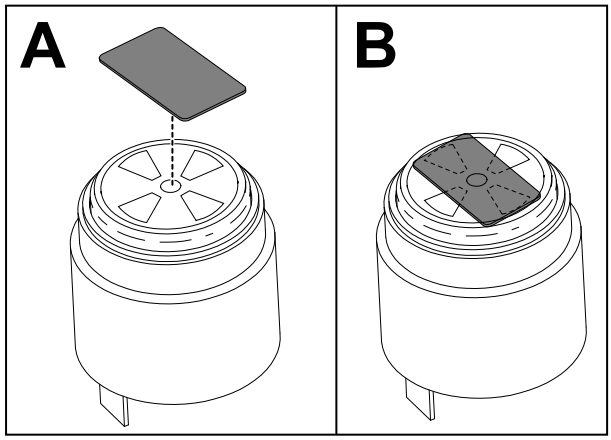
1. Remove the existing seat belt buckle from the seat base by removing the bolt.
2. Install the new seat belt buckle using the previously removed bolt.
3. Torque the bolt to **55 N·m (41 ft-lb).**

Installing the Alarm

Parts Required

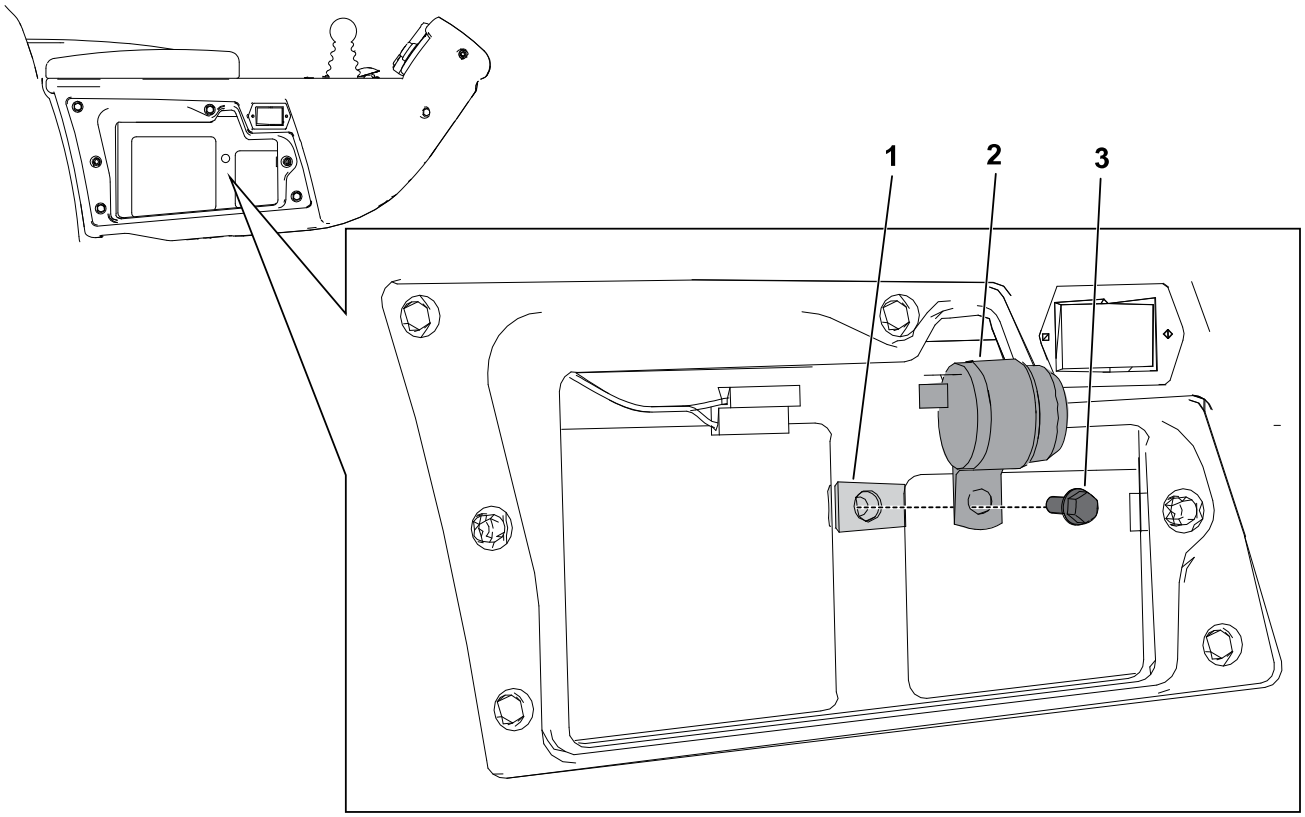
1	Alarm
1	R-clamp
1	Bolt (5/16 x 3/4 inch)
1	Alarm decal

1. Remove the access panel from the control arm.
2. Install the alarm decal on the top of the alarm in the orientation shown.



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3. Secure the alarm to the machine using the R-clamp, U-nut, and bolt (5/16 x 3/4 inch).



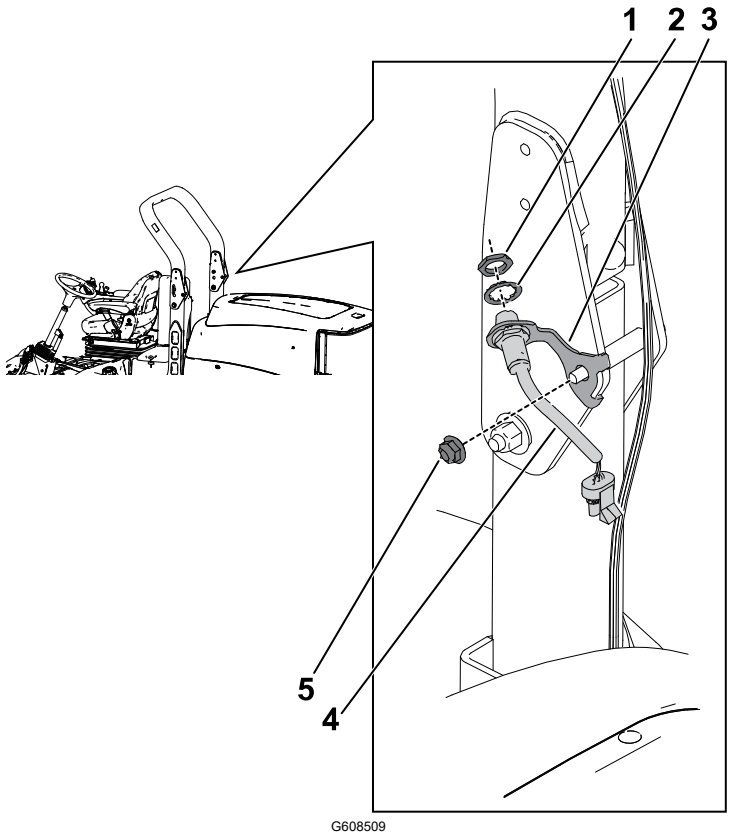
1. U-nut
2. R-clamp installed on alarm
3. Bolt (5/16 x 3/4 inch)

Installing the Proximity Sensor

Parts Required

1	Proximity sensor
1	Proximity sensor bracket
1	Nut

1. Remove and discard the existing nut from the spacer bolt on the right side of the ROPS.
2. Install the proximity sensor bracket onto the ROPS using the nut provided.
3. Remove a hex nut and lock washer from the end of the proximity sensor.
4. Install the proximity sensor onto the bracket as shown and secure it with the lock washer and hex nut.



(1) Hex nut
(2) Lock washer
(3) Proximity sensor bracket
(4) Proximity sensor
(5) Nut

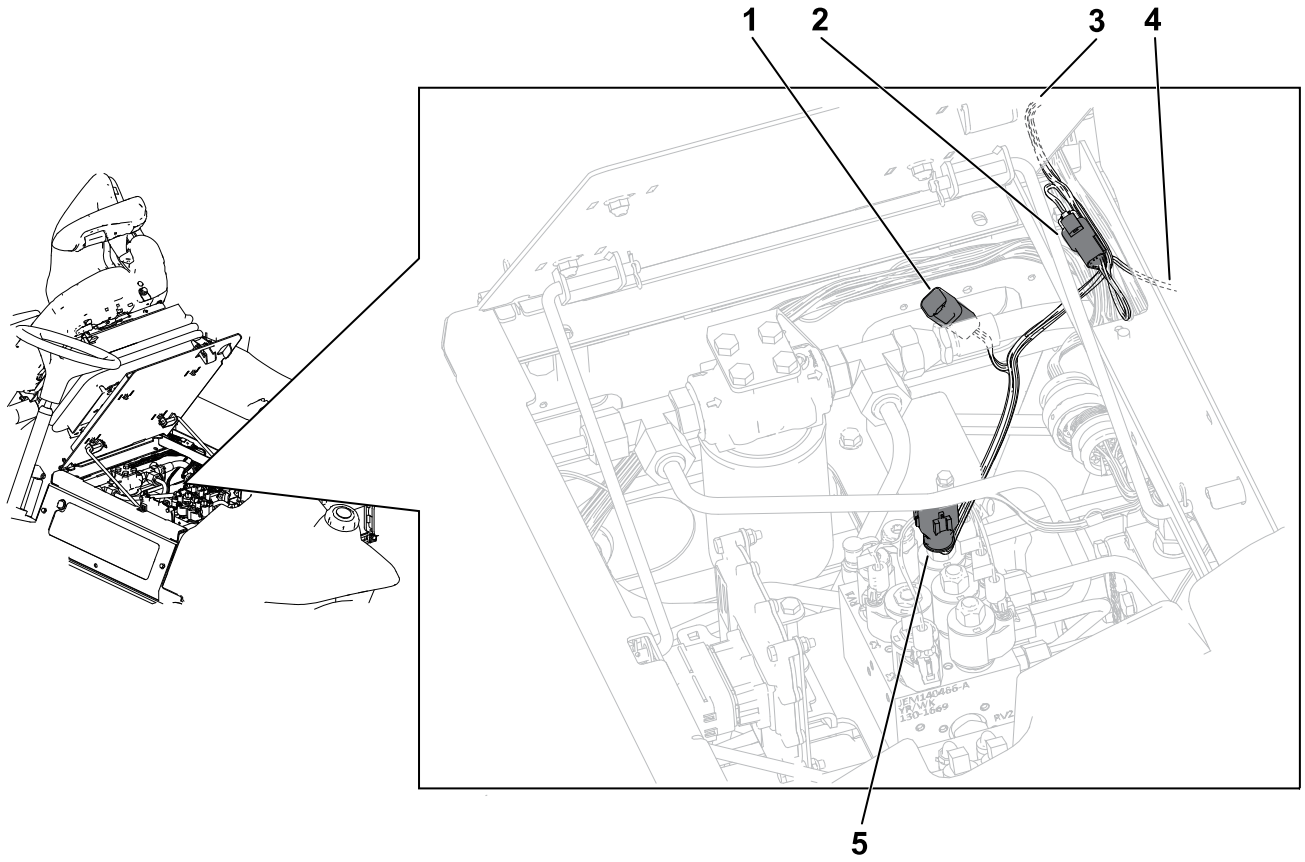
5. Adjust the sensor so that it is 5 mm or less from the ROPS pin.

Routing the Wire Harnesses

Parts Required

1	Seat belt alarm wire harness
1	Proximity sensor wire harness
2	Large cable tie
6	Small cable tie

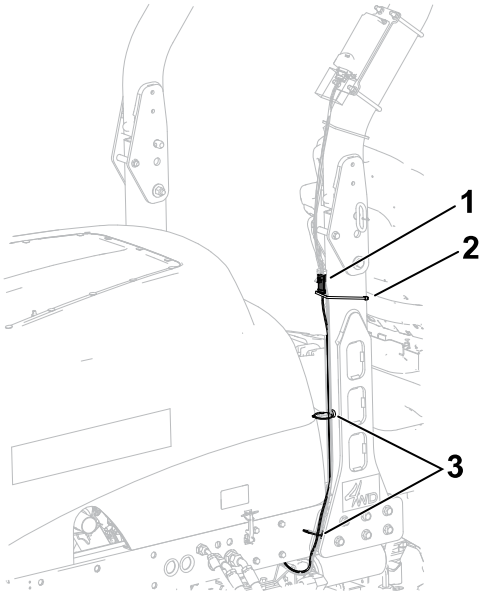
1. Tilt the seat open and support it with the prop rods.
2. Connect the 12-pin connector on the seat belt alarm wire harness to the IMU.
3. Install the 6-pin connector on the seat belt alarm harness into the expansion port on the main wire harness.
4. Route the seat belt alarm harness toward the back of the seat as shown.
5. Plug the 3-pin connector on the seat belt alarm harness into the proximity sensor harness.
6. Route the seat belt alarm harness to the outside of the seat as shown. Route the proximity sensor harness behind the seat as shown.



1. 6-pin connector on seat belt alarm harness; plug into expansion port on main wire harness
2. 3-pin connector on seat belt alarm harness; plug into the connector on the proximity sensor harness
3. Remaining portion of the seat belt alarm harness; route to the outside of the seat
4. Remaining portion of the proximity sensor harness; route behind the seat

(5) 12-pin connector on seat belt alarm harness; plug into the IMU

7. Close and latch the seat base.
8. Route the proximity sensor harness along the telematics harness, up the roll bar.
9. Connect the 2-pin connector on the proximity sensor harness to the proximity sensor.
10. Secure the proximity sensor harness to the ROPS using cable ties as shown.



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(1) 2-pin connector on proximity sensor harness; connect to proximity sensor

(2) Large cable tie

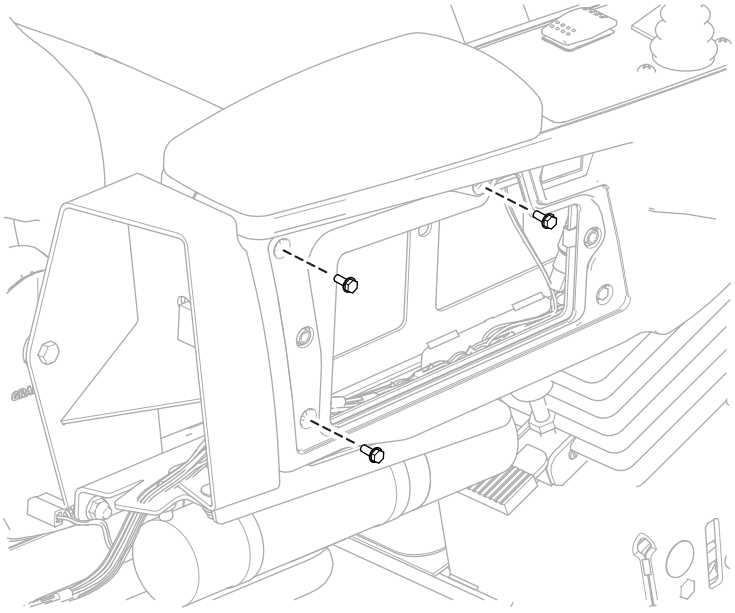
(3) Small cable tie; connect to existing magnetic mount

11. Route the seat belt connector to the buckle, by running it under the buckle spacer, and between the console and the buckle.

IMPORTANT

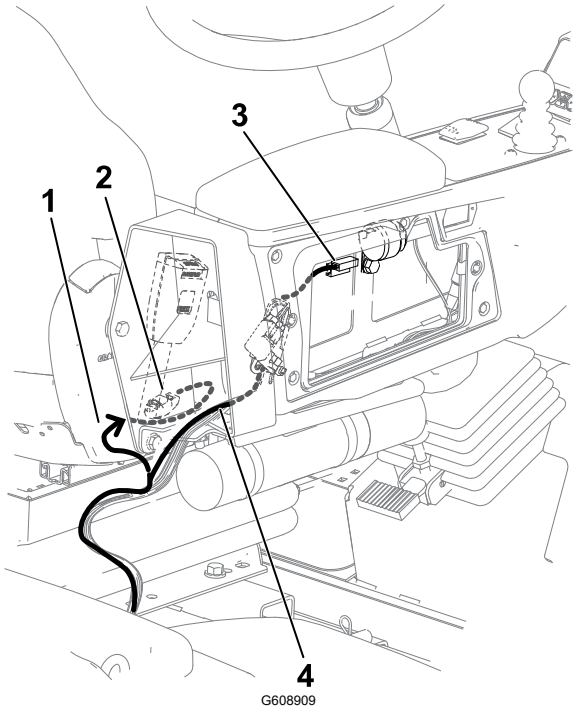
Ensure that the seat belt buckle wire is routed on the outside of the seat belt buckle to avoid pinched wires.

12. Remove 3 bolts on the armrest side panel to loosen the panel and allow space to route the connectors.



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13. Plug the seat belt connector into the seat belt buckle. Plug the alarm connector into the alarm.

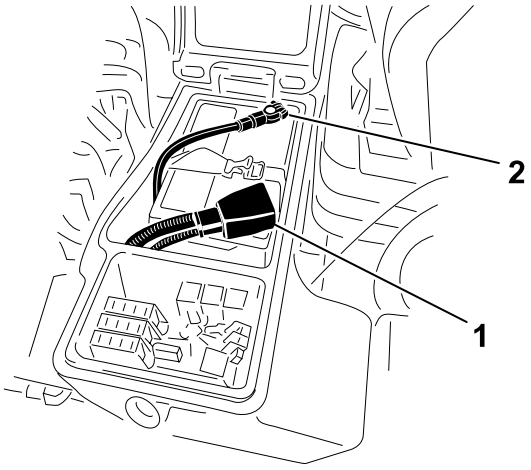


1. Seat belt connector wire; route between the console and the buckle, under the buckle spacer
2. Seat belt connector
3. Alarm connector
4. Alarm portion of seat belt alarm wire harness; route into console along console harness

14. Secure the seat belt alarm wire harness to the console wire harness using the remaining cable ties as needed.

Connecting the Battery

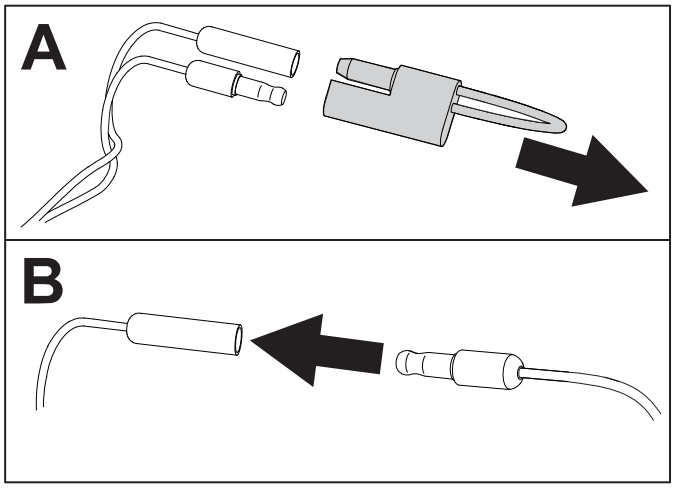
1. Install the positive battery cable (1) (red) to the positive (+) battery post.
2. Install the negative battery cable (2) (black) to the negative (-) battery post.
3. Apply a coat of Grafo 112X (skin-over) grease, Toro Part No. 505-47 to the battery posts and battery-cable clamps.
4. Slide the rubber boot over the positive battery-cable clamp.
5. Close and latch the battery-compartment cover.



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.



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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.