Form No. 3423-154 Rev A

Power Harness Kit

Groundsmaster® 3280-D 4-Wheel Drive Traction Unit

Model No. 138-2998

Installation Instructions

Installation

1

Preparing the Machine

No Parts Required

Procedure

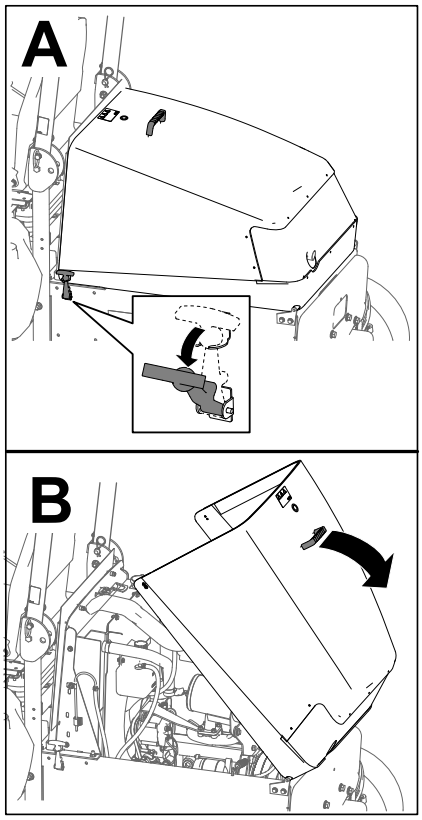
1. Park the machine on a level surface.
2. Engage the parking brake.
3. Lower the cutting units.
4. Shut off the engine and remove the key.

2

Accessing the Machine

No Parts Required

Opening the Hood



g198446

Figure 1

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CE

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3423-154 A

3

Removing the Battery Cables

No Parts Required

Procedure

⚠ WARNING

Battery terminals or metal tools could short against metal components, causing sparks.

- **When removing or installing 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.**
- **Always keep the battery strap in place to protect and secure the battery.**

⚠ WARNING

Electrical sparks can cause the battery gasses to explode, resulting in personal injury.

Incorrect battery cable routing could damage the machine and cables, causing sparks.

- **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. Remove the negative battery cable from the battery post (Figure 2).

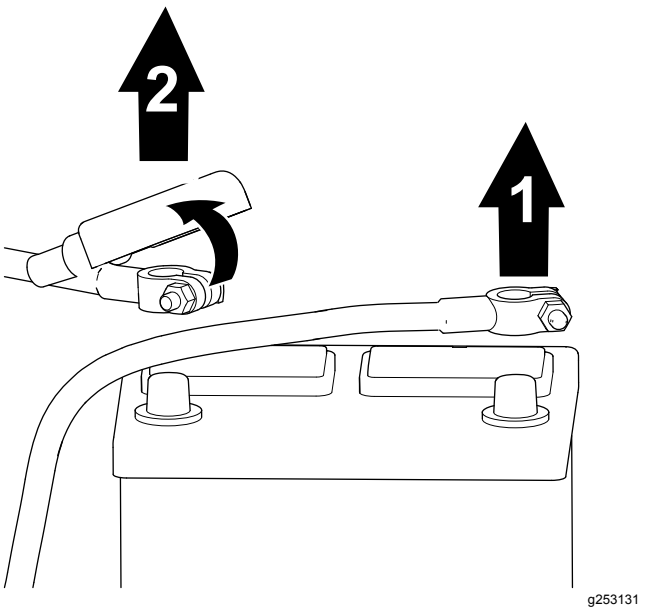


Figure 2

1. Negative battery cable
2. Positive battery cable

2. Lift the insulator and remove the positive battery cable from the battery post (Figure 2).

4

Routing the Wire Harness

No Parts Required

Installing the Wire Harness

Important: **Whenever working with the electrical system, always disconnect the battery cables, black (-) cable first, to prevent possible wiring damage from short-outs.**

1. Route the wire harness on the right side of the machine frame (Figure 3).

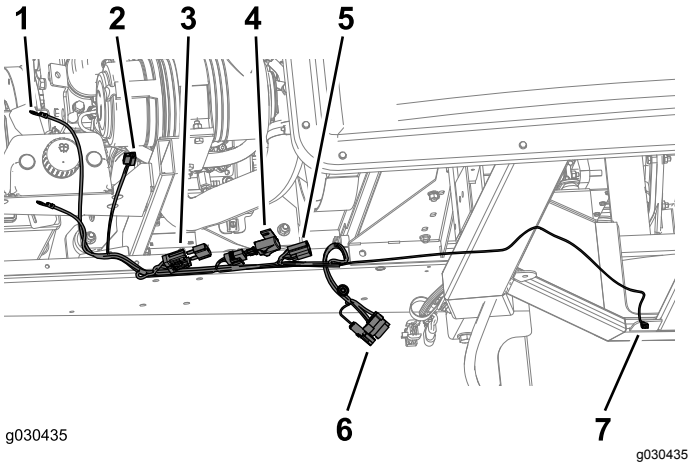


Figure 3

1. Battery terminals
2. Washer connector
3. Fuse (60 A)
4. Fuse (10 A)
5. Relay connector
6. Cab connectors
7. Cab power connector

2. Remove the nut that secures the positive-battery clamp to the positive-battery terminal.
3. Attach the positive battery terminal from the wire harness to the bolt used to secure the battery clamp.
4. Secure the clamp with the nut you removed previously.
5. Repeat the previous steps for the negative battery terminal on the wire harness.

Connecting the Washer Bottle

1. Connect the plug into the washer bottle (Figure 4).

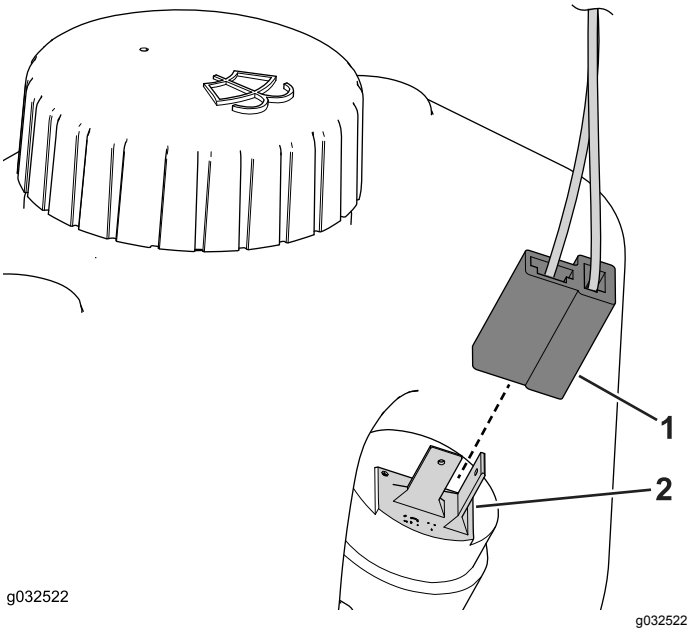


Figure 4

1. Washer connector
2. Washer-bottle connection

2. Use the cable ties to secure the wire harness to the frame.

   Note: Do not secure the wire harness to hot or moving parts.

Connecting the Battery

1. Route the 10-gauge red and black wires along the ROPS tube on the left side of the frame and toward the battery (Figure 5).
2. Loosen and remove the negative-post clamp and then the positive-post clamp from the battery (Figure 5).

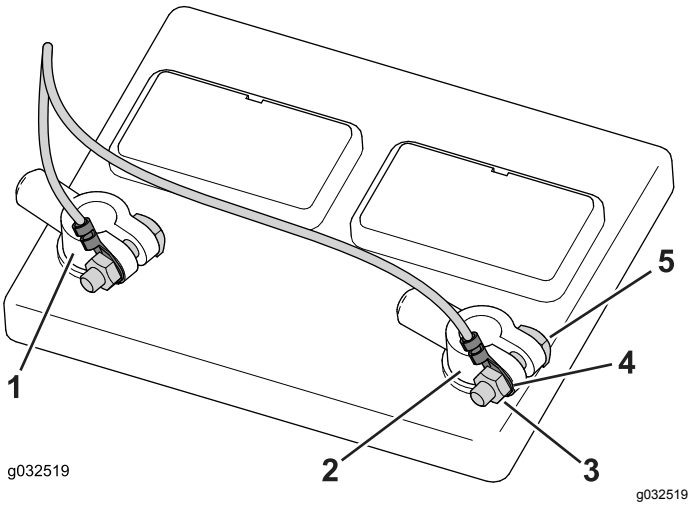


Figure 5

1. Positive-post clamp
2. Negative-post clamp
3. Nut
4. Ring connector
5. Bolt

3. Remove the nuts from the post bolts (Figure 5).
4. Install the positive-terminal connector (red wire) over the positive-post bolt and loosely install the nut (Figure 5).
5. Install the negative-terminal connector (black wire) over the negative-post bolt and loosely install the nut (Figure 5).
6. Install the positive-post clamp to the positive-battery post and then the negative-post clamp to the negative-battery post (Figure 5).
7. Use the cable ties to secure the wire harness to the frame.

   Note: Do not secure the wire harness to hot or moving parts.

Connecting to the Cab Harness

1. Route the harness along the right side of the frame.
2. Connect the harness to the cab harness (Figure 6).

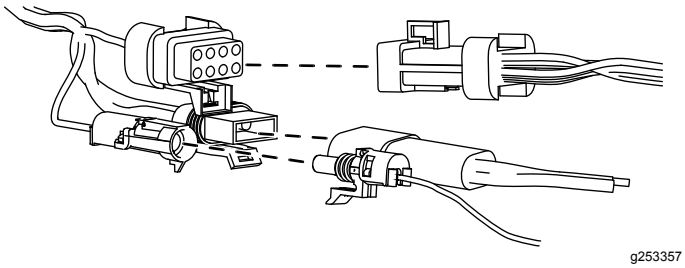


Figure 6