Form No. 3423-326 Rev B

Power Harness Kit

Groundsmaster® 5900 Series Rotary Mower

Model No. 138-3002

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 the machine.
2	No parts required	–	Disconnect the battery.
3	No parts required	–	Remove the side panel.
4	Solenoid Bolt (1/4 x 3/4 inch) Flange locknut Fuse-holder Jumper strap Fuse (100 A) Flange nut (8 mm) Flange nut (5/16 inch) Red insulator	1 2 2 1 1 1 2 2 1	Install the fuse holder and solenoid.
5	No parts required	–	Connect the solenoid and fuse holder.
6	No parts required	–	Connect the battery.
7	No parts required	–	Install the side panel and close the hood.

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CE

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3423-326 B

1

Preparing the Machine

No Parts Required

Procedure

⚠ 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.
2. Engage the parking brake.
3. Lower the cutting units.
4. Shut off the engine and remove the key.

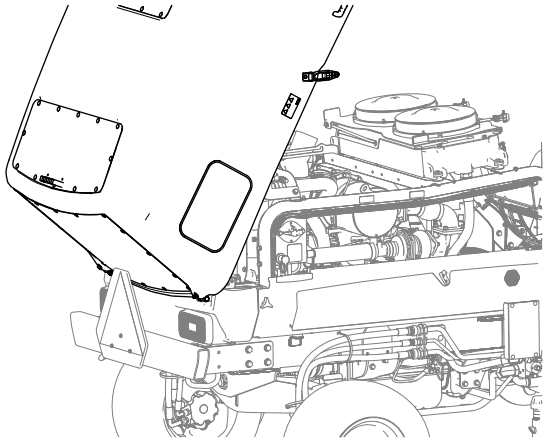
2

Disconnecting the Battery

No Parts Required

Procedure

1. Open the hood (Figure 1).



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Figure 1

2. Rotate the battery disconnect switch to the OFF position, refer to the *Operator's Manual* for your machine.

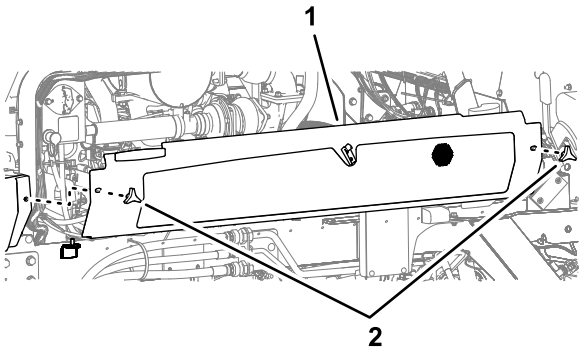
3

Removing the Side Panel

No Parts Required

Procedure

1. Loose the 2 knobs that secure the right side panel to the machine (Figure 2).



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Figure 2

1. Side panel
2. Knobs

2. Remove the side panel from the machine (Figure 2).

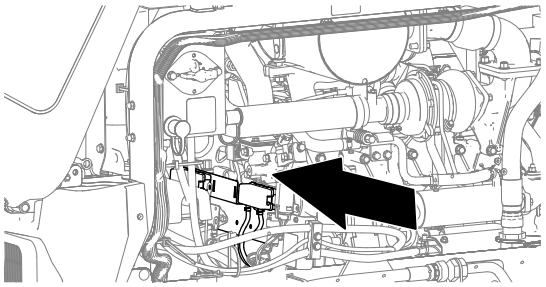
4

Installing the Fuse Holder and Solenoid

Parts needed for this procedure:

1	Solenoid
2	Bolt (1/4 x 3/4 inch)
2	Flange locknut
1	Fuse-holder
1	Jumper strap
1	Fuse (100 A)
2	Flange nut (8 mm)
2	Flange nut (5/16 inch)
1	Red insulator

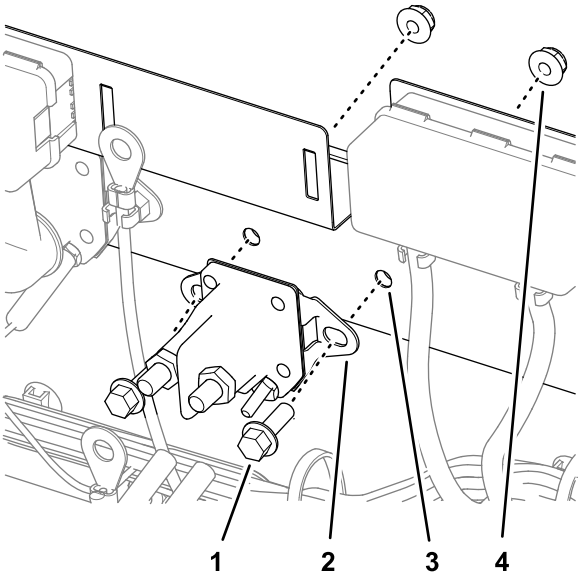
Procedure



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Figure 3

1. Align the holes in the solenoid with the holes in the electrical bracket (Figure 4).

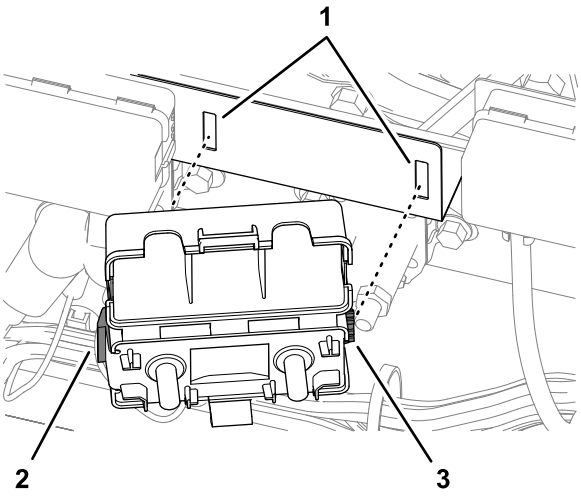


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Figure 4

1. Bolt (1/4 x 3/4 inch)
2. Solenoid
3. Electrical bracket
4. Flange locknut (1/4 inch)

2. Secure the solenoid to the bracket (Figure 4) with the 2 bolts (1/4 x 3/4 inch) and 2 flange locknuts (1/4 inch).
3. Insert the L-tab (right) of the fuse-holder into the right slot in the electrical bracket (Figure 5).



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Figure 5

1. Slot (electrical bracket)
2. Locking clip (fuse-holder)
3. L-tab (fuse-holder)

4. Insert the locking clip (left) of the fuse-holder into the left slot in the electrical bracket until the fuse holder snaps securely into the bracket (Figure 5).

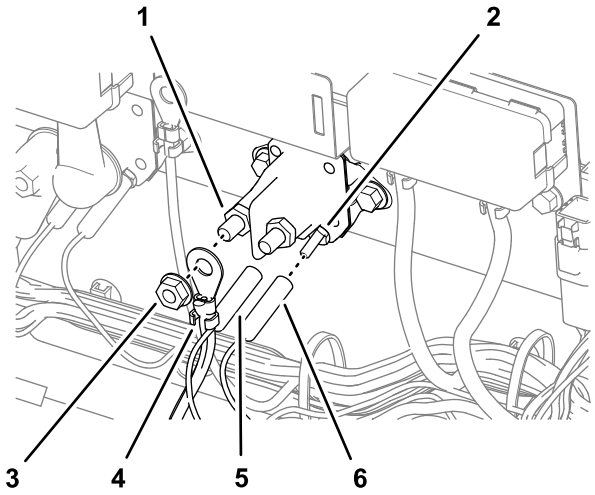
5

Connecting the Solenoid and Fuse Holder

No Parts Required

Connecting the Solenoid and Fuse Block

1. Install the pink-wire connector labeled COIL + [CAB CONTACTOR] to the left post at the bottom of the solenoid (Figure 6).

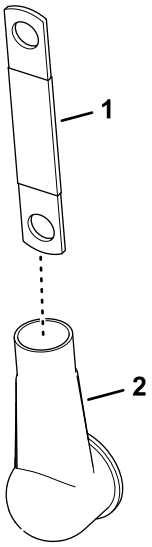


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Figure 6

1. Solenoid (left post)
2. Bottom right post (solenoid)
3. Nut (5/16 inch)
4. Ring terminal (2 red wires)
5. Pink-wire connector—COIL + [CAB CONTACTOR]
6. Black-wire connector—COIL - [CAB CONTACTOR]

2. Install the black-wire connector labeled COIL - [CAB CONTACTOR] to the right post at the bottom of the solenoid (Figure 6).
3. Assemble the ring terminal with the 2 red wires of the machine wire harness onto the left post of the solenoid and secure the terminal to the post (Figure 6) with a nut (5/16 inch).
4. Assemble the red insulator onto the jumper strap (Figure 7).

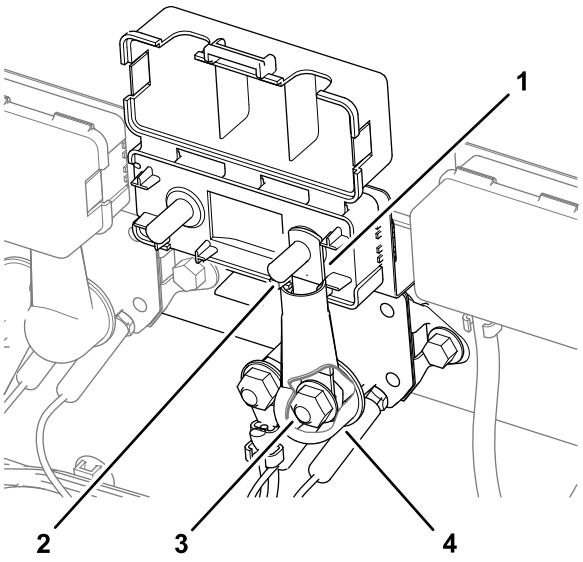


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Figure 7

1. Jumper strap
2. Insulator

5. Assemble the jumper strap and insulator onto the right post of the fuse-holder and right post of the solenoid (Figure 8).



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Figure 8

1. Jumper strap
2. Right post (fuse-holder)
3. Flange nut (8 mm)
4. Insulator

6. Loosely secure the strap to the right post of the solenoid (Figure 8) with a nut (5/16 inch).

Connecting the Fuse and Wiring

1. Assemble the fuse (100 A) onto the left and right posts of the fuse-holder (Figure 9).

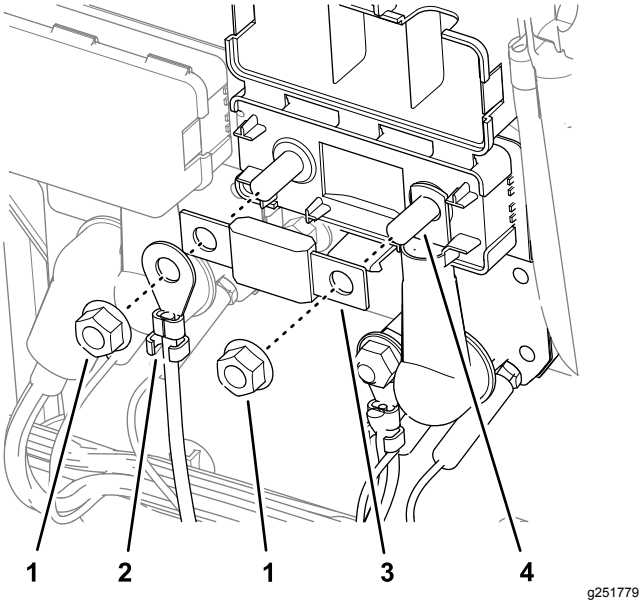


Figure 9

1. Flange nuts (8 mm)
2. Ring terminal (yellow wire)
3. Fuse (100 A)
4. Right post (fuse-holder)

2. Assemble the ring terminal for the yellow wire of the machine wire harness onto the left post of the fuse-holder (Figure 9).
3. Assemble the 2 flange nuts (8 mm) onto the left and tight posts of the fuse-holder and tighten the nuts by hand (Figure 9).
4. Tighten the nut (5/16 inch) that secure the strap to the right post of the solenoid by hand
5. Close the cover of the fuse-holder until the cover snaps closed securely (Figure 10).

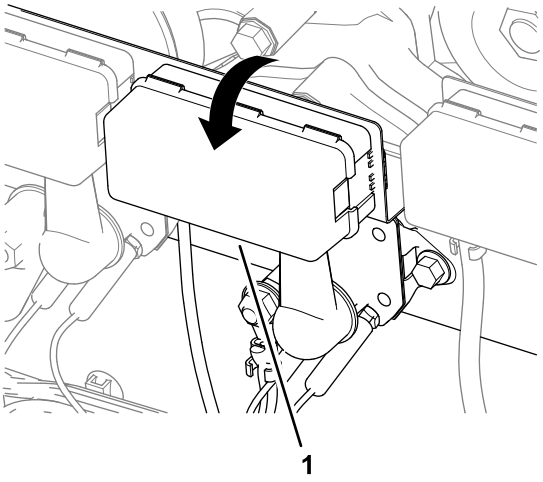


Figure 10

1. Cover (fuse-holder)

6

Connecting the Battery

No Parts Required

Procedure

Rotate the battery disconnect switch to the ON position; refer to the *Operator's Manual* for your machine.

7

Installing the Side Panel and Closing the Hood

No Parts Required

Procedure

1. Align the holes in side panel with the holes in the panel support of the machine; refer to Figure 2 in 3 Removing the Side Panel (page 2).
2. Secure the side panel to the machine with the 2 knobs that you removed in 3 Removing the Side Panel (page 2).
3. Close the hood and secure it.

Notes:

Notes:



Count on it.