Form No. 3384-337 Rev B

# Foam Marker Finishing Kit

## 2015 and After Multi Pro® 5800 Turf Sprayer

**Model No. 130-8292**

**Installation Instructions**

**⚠ WARNING**

**CALIFORNIA**
**Proposition 65 Warning**

**This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.**

**Use of this product may cause exposure to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.**

# Installation

## Loose Parts

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

| Procedure | Description | Qty. | Use |
|---|---|---|---|
| 1 | No parts required | – | Prepare to install the kit. |
| 2 | Foam marker (sold separately)<br>Support bracket<br>Bolt (1/4 x 7/8 inch)<br>Flanged locknut (1/4 inch)<br>Washer (1/4 inch) | 1<br>1<br>4<br>4<br>4 | Assemble the foam marker. |
| 3 | Flanged locknut (5/16 inch)<br>Carriage bolt (5/16 x 1-1/4 inch) | 4<br>4 | Install the finishing kit bracket. |
| 4 | Wiring harness<br>Cable tie | 1<br>6 | Route the wiring harness. |
| 5 | Relay<br>Flange-head bolt (#10-24 x 1/2 inch)<br>Fuse (15 amp) | 1<br>1<br>1 | Connect the wiring. |
| 6 | Flange-head bolts (6 x 12 mm)<br>Mounting bracket (foam-control switch)<br>3-position paddle switch (foam-control switch)<br>2-position rocker switch (compressor On/Off switch) | 4<br>1<br>1<br>1 | Install the switches. |
| 7 | No parts required | – | Finish the installation of the kit. |

**Note:** The Foam Marker Kit is required to install this product. Contact your Authorized Toro Dealer for more information.

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**Bloomington, MN 55420**

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CE

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*3384-337* B

# 1

# Preparing to Install the Kit

**No Parts Required**

## Procedure

**⚠ WARNING**

**Incorrect battery cable routing could damage the sprayer and cables causing sparks. Sparks can cause the battery gasses to explode, resulting in personal injury.**

- **Always disconnect the negative (black) battery cable before disconnecting the positive (red) cable.**
- **Always reconnect the positive (red) battery cable before reconnecting the negative (black) cable.**

**⚠ WARNING**

**Battery terminals or metal tools could short against metal sprayer components causing sparks. Sparks can cause the battery gasses to explode, resulting in personal injury.**

- **When removing or installing the battery, do not allow the battery terminals to touch any metal parts of the sprayer.**
- **Do not allow metal tools to short between the battery terminals and metal parts of the sprayer.**
- **Always keep the battery strap in place to protect and secure the battery.**

1. Move the machine to a level surface, fully press in the brake pedal, and set the parking-brake pedal; refer to the *Operator's Manual*.
2. Rotate the key switch to the Off position, and remove the key; refer to the *Operator's Manual*.
3. Remove the battery cover and disconnect the negative (black—ground) cable from the battery post (Figure 1 and Figure 2).

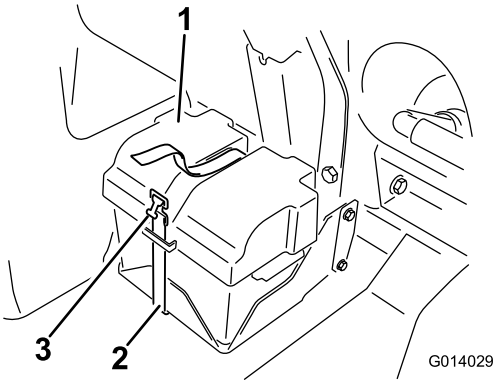



**Figure 1**

1. Battery cover
2. Strap
3. Buckle

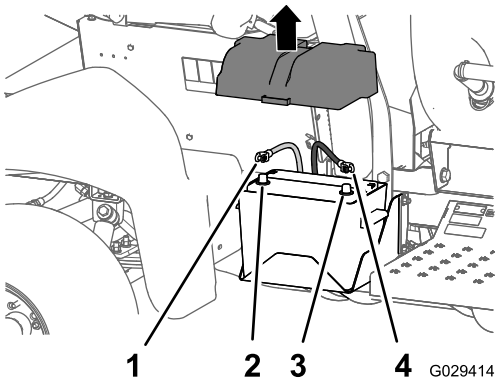



**Figure 2**

1. Positive battery cable
2. Positive battery post
3. Negative battery post
4. Negative battery cable

4. Disconnect the positive (red) cable from the battery post (Figure 2).
5. Tilt both seats forward and secure them by moving the prop rods into the detents at the end of the slots at the center-console base.

# 2

# Assembling the Foam Marker

### Parts needed for this procedure:

| | |
|---|---|
| 1 | Foam marker (sold separately) |
| 1 | Support bracket |
| 4 | Bolt (1/4 x 7/8 inch) |
| 4 | Flanged locknut (1/4 inch) |
| 4 | Washer (1/4 inch) |

## Procedure

**Note:** The foam marker is sold separately.

1. Align the foam marker tank and compressor to the mounting bracket as shown in Figure 3.

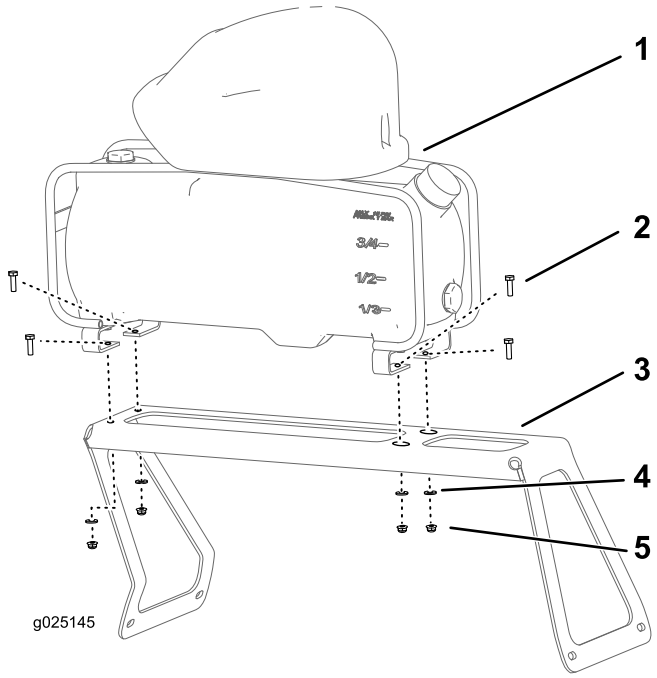



**Figure 3**

1. Foam-marker tank and compressor (sold separately)
2. Bolts (1/4 x 7/8 inch)
3. Support bracket
4. Washers (1/4 inch)
5. Flanged locknuts (1/4 inch)

2. Secure the tank and compressor to the bracket (Figure 3) using the 4 bolts (1/4 x 7/8 inch), 4 washers (1/4 inch), and 4 flanged locknuts (1/4 inch).

# 3

# Installing the Foam Marker and Support Bracket

### Parts needed for this procedure:

| | |
|---|---|
| 4 | Flanged locknut (5/16 inch) |
| 4 | Carriage bolt (5/16 x 1-1/4 inch) |

## Procedure

1. Remove the 2 carriage bolts and 2 flanged locknuts that secure the right, rear fender to the forward-fender bracket (Figure 4)

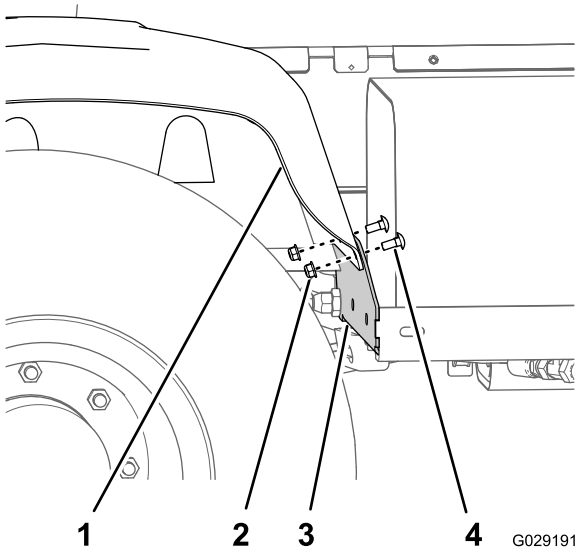



**Figure 4**

1. Right, rear fender
2. Flanged locknut
3. Forward-fender bracket
4. Carriage bolt

2. Remove the 2 carriage bolts and 2 flanged locknuts that secure the splash guard to the rear-fender mount and right, rear fender (Figure 5).

**Note:** Discard the old carriage bolts and nuts.

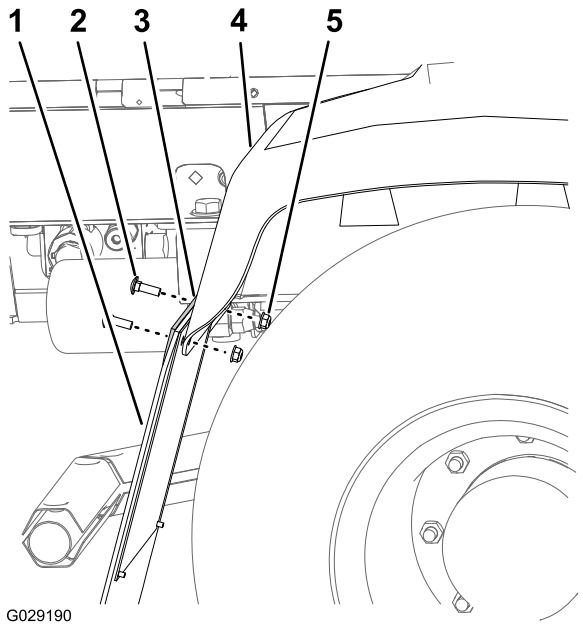



**Figure 5**

1. Splash guard
2. Carriage bolt
3. Rear-fender mount
4. Right, rear fender
5. Flanged locknut

3. Align the holes in the front leg of the support bracket with the holes in the fender bracket and fender (Figure 6).

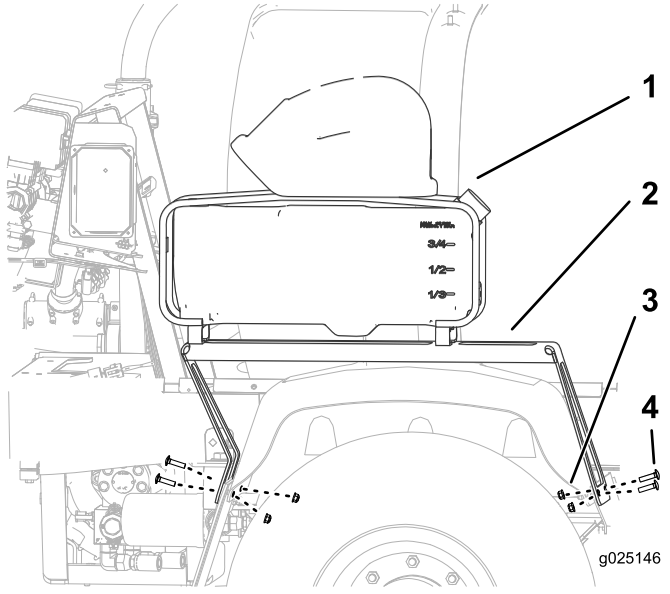



**Figure 6**

1. Foam-marker tank
2. Bracket
3. Flanged locknut (5/16 inch)
4. Carriage bolt (5/16 x 1-1/4 inch)

4. Secure the support bracket to the fender bracket and fender with 2 carriage bolts (5/16 x 1-1/4 inch) and 2 flanged locknuts (5/16 inch) as shown in Figure 6.

5. Align the holes in the rear leg of the support bracket with the holes in the splash guard, fender bracket, and fender (Figure 6).

6. Secure the support bracket to the splash guard, fender bracket, and fender with 2 carriage bolts (5/16 x 1-1/4 inch) and 2 flanged locknuts (5/16 inch) as shown in Figure 6.

# 4

# Routing the Wiring Harness

**Parts needed for this procedure:**

| | |
|---|---|
| 1 | Wiring harness |
| 6 | Cable tie |

## Routing the Compressor Branch of the Wiring Harness

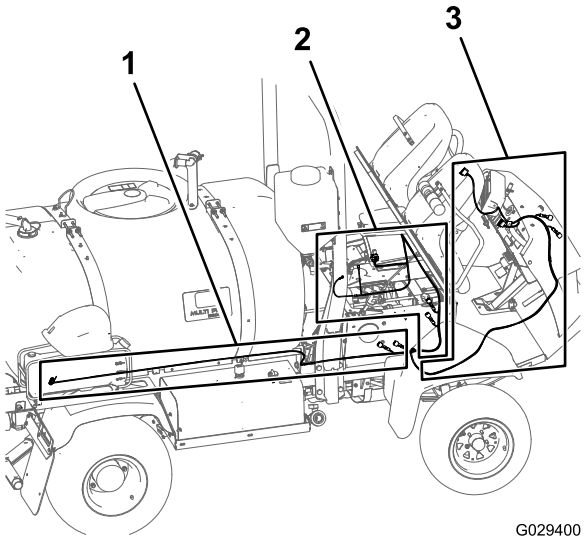



**Figure 7**

1. 236 cm (93 inch) branch of the wiring harness for the finishing kit—compressor branch
2. 197 cm (77-1/2 inch) branch of the wiring harness for the finishing kit—engine-compartment branch
3. 240 cm (94-1/2 inch) branch of the wiring harness for the finishing kit—dash-panel branch

1. Locate the 236 cm (93 inch)—compressor branch of the wiring harness with a 4-socket connector and route the wiring branch rearward along the sprayer tank as shown in Figure 7 and Figure 8.

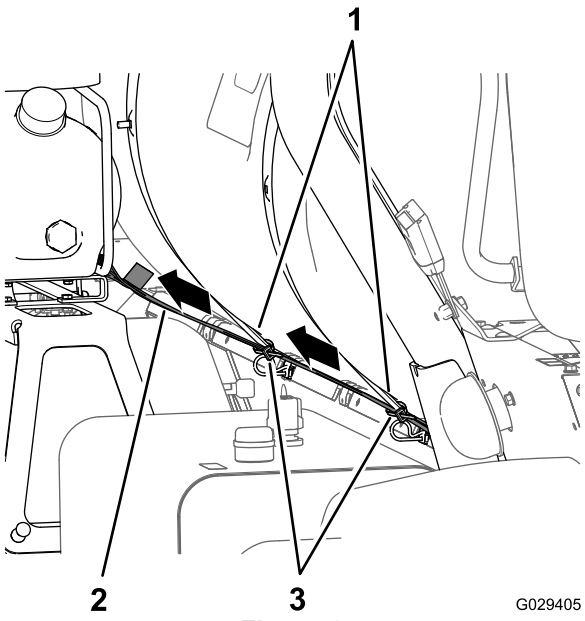



**Figure 8**

1. 236 cm (93 inch)—compressor branch
2. Sprayer-tank straps
3. Cable ties

2. Route the 4-socket connector of the harness to the 4-pin connector of the compressor and connect the 2 connectors.

   **Note:** The compressor is located above the foam-marker tank.

## Routing the Engine-Compartment Branch of the Wiring Harness

1. Route the wiring harness for the finishing kit forward between the ROPS bar and the lower corner of the sprayer tank, along the wiring harness of the machine, and below the air cleaner for the engine (Figure 9 and Figure 10).

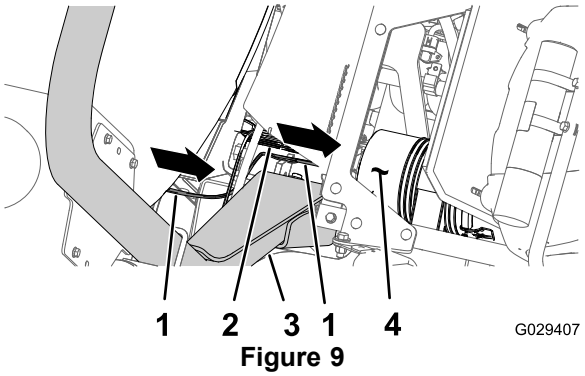



**Figure 9**

1. 236 cm (93 inch)—compressor branch
2. Wiring harness for the machine
3. ROPS
4. Air cleaner (engine)

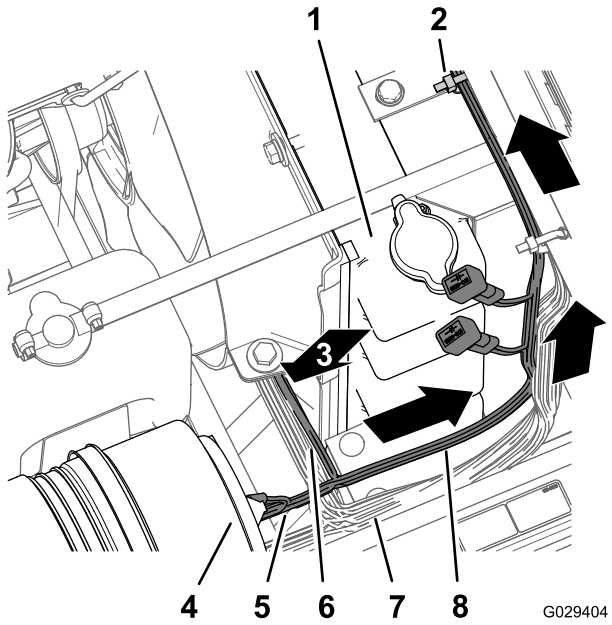



**Figure 10**

1. Radiator
2. Cable tie
3. 240 cm (94-1/2 inch)—dash-panel branch (routed down)
4. Air filter (engine)
5. 236 cm (93 inch)—compressor branch
6. 240 cm (94-1/2 inch)—dash-panel branch
7. Wiring harness for the machine
8. 197 cm (77-1/2 inch)—engine-compartment branch

2. Route the 197 cm (77-1/2 inch)—engine-compartment branch of the wiring harness (with the ring terminal, socket terminal, and 5-socket connector) up along the right side of the radiator, across the top of the radiator, under the base of the center console (Figure 10).
3. Route the 197 cm (77-1/2 inch)—engine-compartment branch of the wiring harness down along the left side of the radiator and across the bottom of the electrical panel (Figure 11).

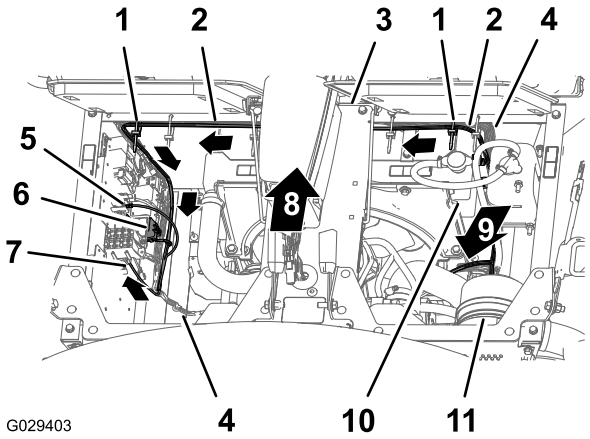



**Figure 11**

1. Cable ties
2. 197 cm (77-1/2 inch)—engine-compartment branch
3. Base of the center console
4. Wiring harness for the machine
5. Ring terminal (wiring harness for the finishing kit)
6. 5-socket connect (wiring harness for the finishing kit)
7. Blade connector (wiring harness for the finishing kit)
8. Front of the machine
9. 240 cm (94-1/2 inch)—dash-panel branch (routed down)
10. Radiator
11. Air filter

4. Secure the wiring harness for the finishing kit to the wiring harness for the machine with 2 cable ties as shown in Figure 11.

## Routing the Dash-Panel Branch of the Wiring Harness

1. Route the 240 cm (94-1/2 inch)—dash-panel branch of the wiring harness along the wiring harness and steering hoses of the machine (below the radiator), through the R-clamp at the bottom of the radiator support, through the R-clamp at the ground-speed-control coil (Figure 12 and Figure 13).

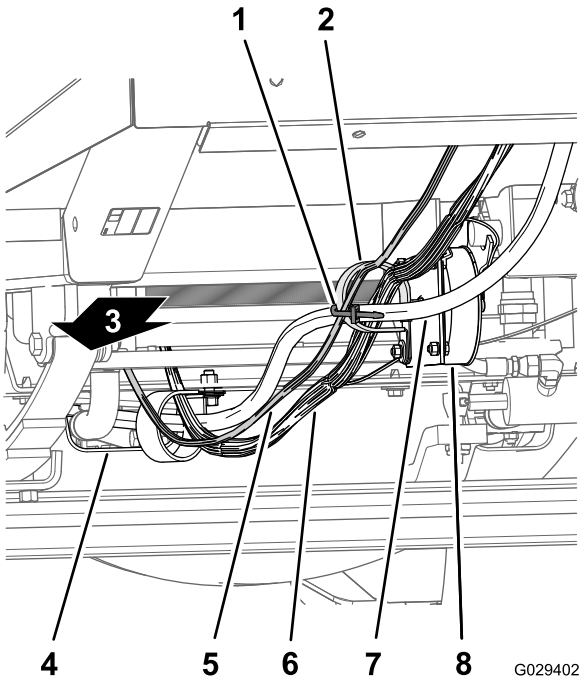



**Figure 12**

1. Cable tie
2. R-clamps
3. Back of the machine
4. Engine-heat shield
5. 240 cm (94-1/2 inch)—dash-panel branch
6. Wiring harness for the machine
7. Steering hose
8. Ground-speed-control coil

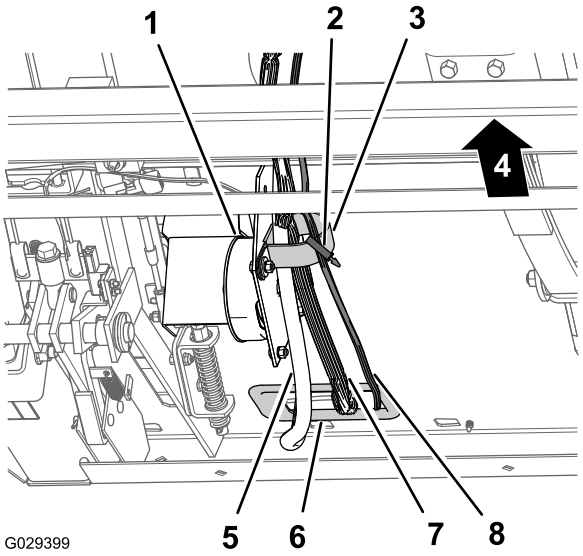



**Figure 13**

1. Ground-speed-control coil
2. Cable tie
3. R-clamp
4. Steering hose
5. Grommet (forward bulkhead)
6. Wiring harness for the machine
7. 240 cm (94-1/2 inch)—dash-panel branch

2. Route the 240 cm (94-1/2 inch)—dash-panel branch of the wiring harness to the R-clamp at the ground-speed-control coil (Figure 12 and Figure 13).
3. Route the 240 cm (94-1/2 inch)—dash-panel branch of the wiring harness through the grommet at the opening in the forward bulkhead and inboard of the cable and hose hook (Figure 14).

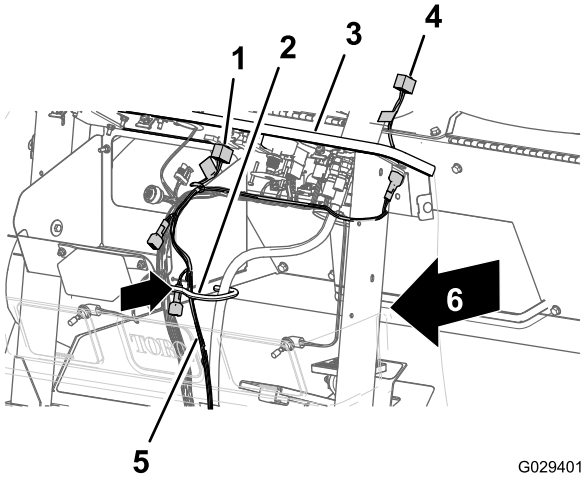



**Figure 14**

1. 8-socket connector (compressor switch)
2. Cable and hose hook
3. Dash panel
4. 8-socket connector (wiring harness for the finishing kit)
5. 240 cm (94-1/2 inch)—dash-panel branch
6. 8-socket connector (foam-control switch)

4. Route the 8-socket connector at the end of the 240 cm (94-1/2 inch)—dash-panel branch across the dash panel and to the left of the steering column (Figure 15).

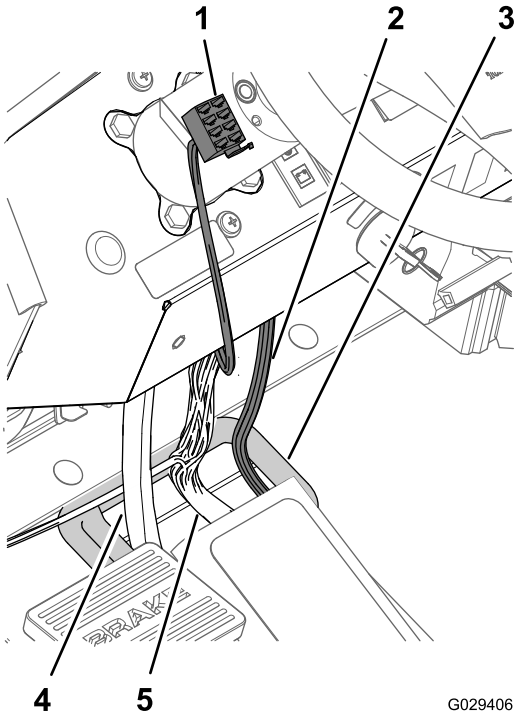



**Figure 15**

1. 8-socket connector (wiring harness for the finishing kit)
2. 240 cm (94-1/2 inch)—dash-panel branch
3. Grommet (forward bulkhead)
4. Steering hose
5. Wiring harness for the machine

5. Adjacent to the cable and hose hook, secure the 240 cm (94-1/2 inch)—dash-panel branch to the wiring harness for the machine with a cable tie (Figure 16).

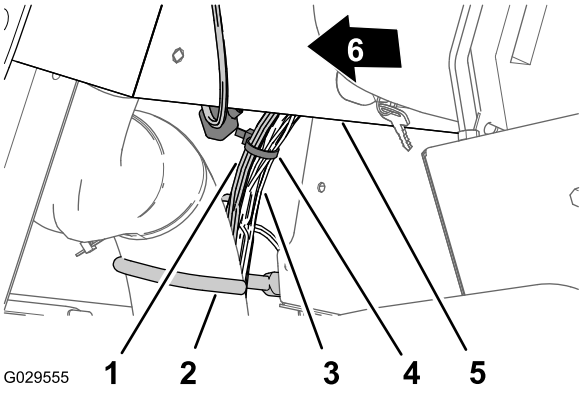



**Figure 16**

1. 240 cm (94-1/2 inch)—dash-panel branch
2. Cable and hose hook
3. Wiring harness for the machine
4. Cable tie
5. Dash panel
6. Front of the machine

# 5

# Connecting the Wiring

**Parts needed for this procedure:**

| | |
|---|---|
| 1 | Relay |
| 1 | Flange-head bolt (#10-24 x 1/2 inch) |
| 1 | Fuse (15 amp) |

## Connecting the Compressor Wiring

1. At the end of the 236 cm (93 inch) branch of the wiring harness, align the 4-socket connector of the wiring harness for the finishing kit with the 4-pin connector of the wiring harness from the compressor (Figure 17).

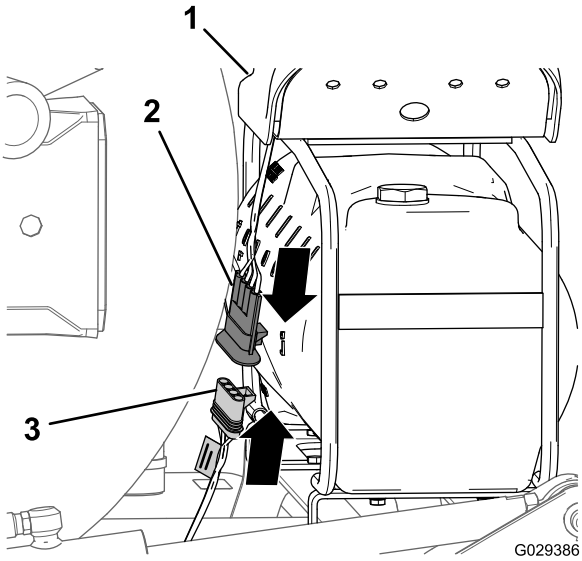



**Figure 17**

1. Compressor
2. 4-pin connector (wiring harness for the compressor)
3. 4-socket connector (wiring harness for the finishing kit)

2. Insert the 4-pin connector into the 4-socket connector (Figure 17).

   **Note:** Press the connectors together until the latch snaps securely.

## Installing the Relay

1. At the 197 cm (77-1/2 inch)—engine-compartment branch of the wiring harness, align the relay with the 5-socket connect of the wiring harness for the finishing kit (Figure 18).

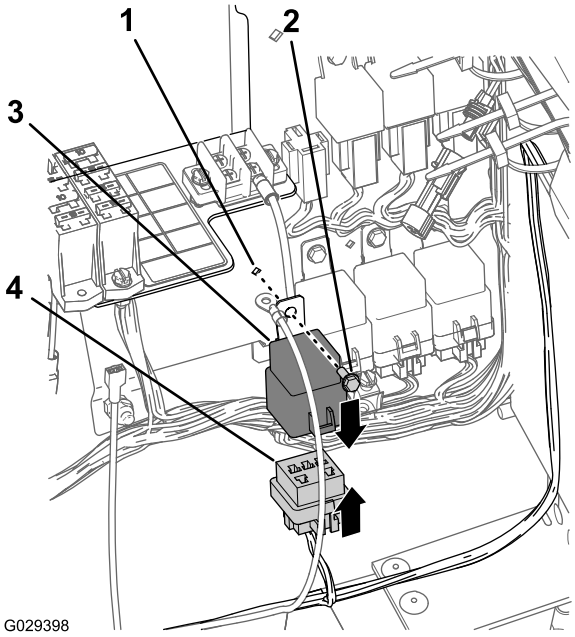



**Figure 18**

1. Hole (wiring panel)
2. Flange-head bolt (#10-24 x 1/2 inch)
3. Relay
4. 5-socket connect (wiring harness for the finishing kit)

2. Insert the pins of the relay into the sockets of the connector (Figure 18).

   **Note:** Press the relay and connector together until the latch snaps securely

3. Align the hole in the mounting tab of the relay with the hole in the wiring panel (Figure 18).
4. Secure the relay to the panel (Figure 18) with the flange-head bolt (#10-24 x 1/2 inch).

## Connecting the Ground Wire Connectors

1. Remove a screw from the ground-terminal block (Figure 19).

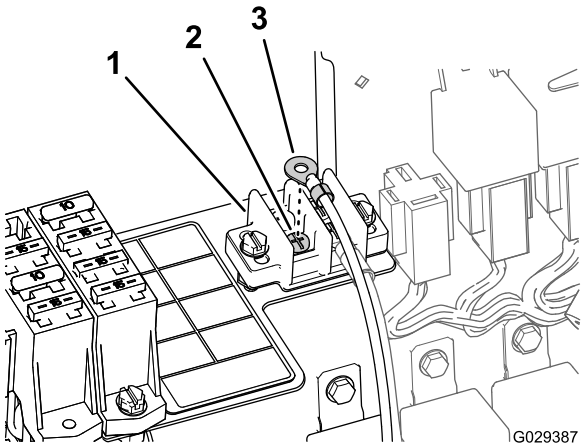



**Figure 19**

1. Ground-terminal block
2. Screw
3. Ring terminal (ground)

2. Secure the ring terminal of the wiring harness for the finishing kit to the ground-terminal block with the screw that you removed in step 1 (Figure 19).

## Connecting the Load Wire Connectors (Machine-Fuse Block)

**Note:** If you do not have a bladed-attachment connector at the fuse block for the machine available, you will need to install an auxiliary-fuse block.

1. For a machine with the bladed-attachment connector at the fuse block for the machine, connect the blade connector of the wiring harness for the finishing kit to the socket connector of the fuse block for the machine (Figure 20).

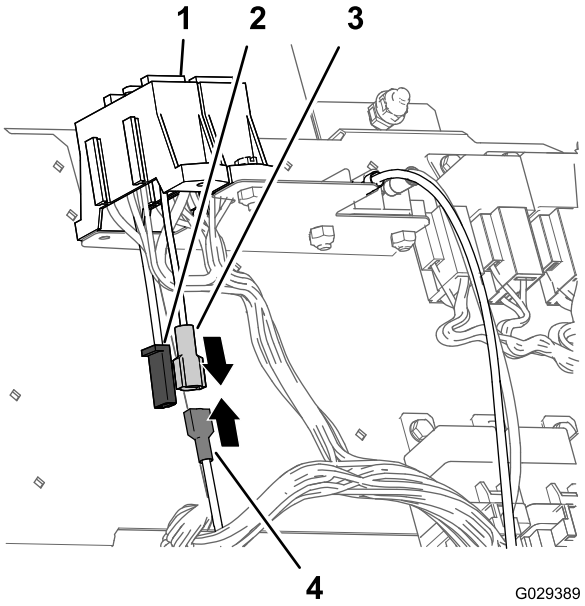



**Figure 20**

1. Fuse Block (machine)
2. 2-pin connector (auxiliary-feed wires)
3. Blade connector (wiring harness for the finishing kit)
4. Socket connector (fuse block for the machine)

2. Press the connectors together until the latch snaps securely.

## Connecting the Load Wire Connectors (Optional Auxiliary-Fuse Block)

1. Connect the blade connector of the wiring harness for the finishing kit to the socket connector of the auxiliary-fuse block (Figure 21).

   **Note:** Press the connectors together until the latch snaps securely.

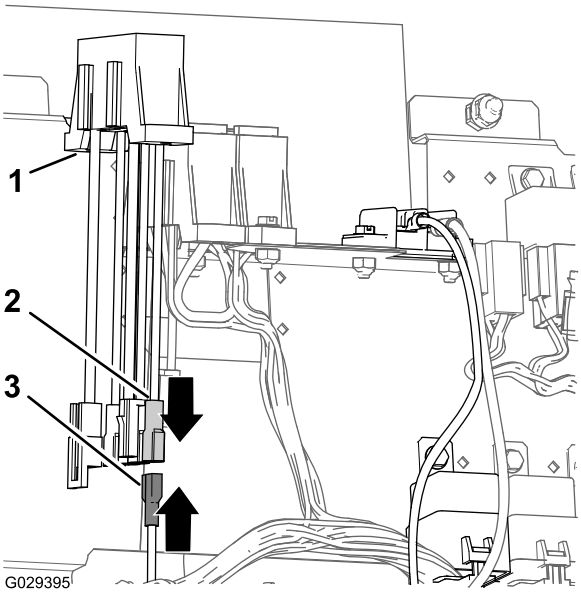



**Figure 21**

1. Auxiliary fuse block
2. Socket connector (auxiliary-fuse block)
3. Blade connector (wiring harness for the finishing kit)

2. Connect the 2-pin connector for the auxiliary-feed wires of the fuse block for the machine to the 2-socket connector for the feed wires of the auxiliary-fuse block (Figure 22).

   **Note:** Press the connectors together until the latch snaps securely.

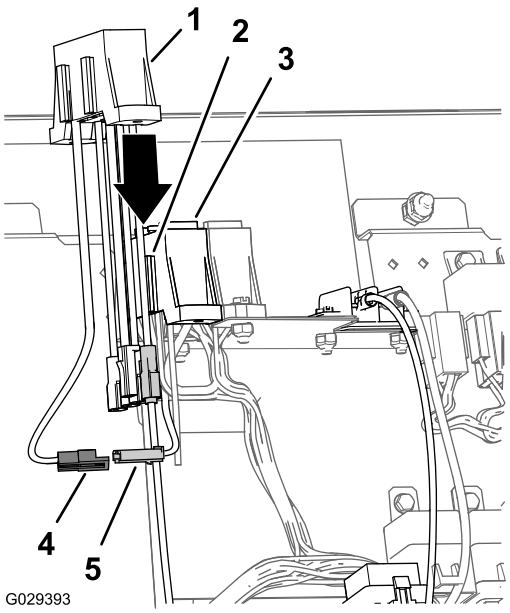



**Figure 22**

1. Auxiliary fuse block
2. Mounting flange (fuse block for the machine)
3. Fuse block (machine)
4. 2-socket connector (feed wires of the auxiliary-fuse block)
5. 2-pin connector (auxiliary-feed wires, fuse block for the machine)

3. Align the slots in the auxiliary-fuse block with the mounting flanges of the fuse block for the machine (Figure 22).
4. Assemble the fuse blocks together.

## Installing the Fuse

- For a machine with the bladed-attachment connector at the fuse block for the machine, install the 15-amp fuse into the fuse block (Figure 23).

  **Note:** Ensure that the fuse is fully seated into the socket of the fuse block

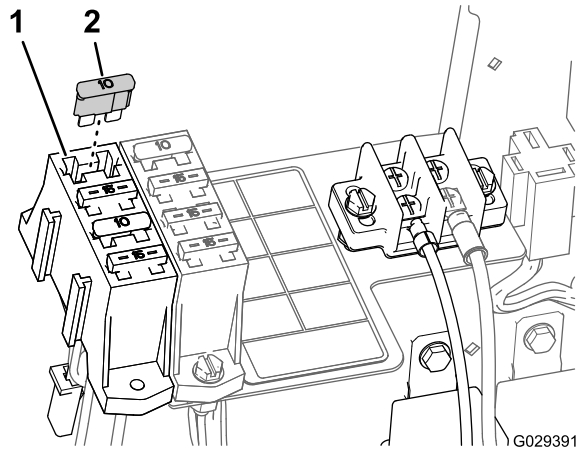



**Figure 23**

1. Fuse block for the machine 2. 15-amp fuse

- For a machine with a bladed-attachment connector at the optional auxiliary-fuse block, perform the following:

  1. Locate the fuse socket that is aligned with the wire of the blade connector that you used in step 1 of Connecting the Load Wire Connectors (Optional Auxiliary-Fuse Block) (page 10).
  2. Install the 15-amp fuse into the socket that you located in the auxiliary-fuse block (Figure 24).

     **Note:** Ensure that the fuse is fully seated into the socket of the fuse block.

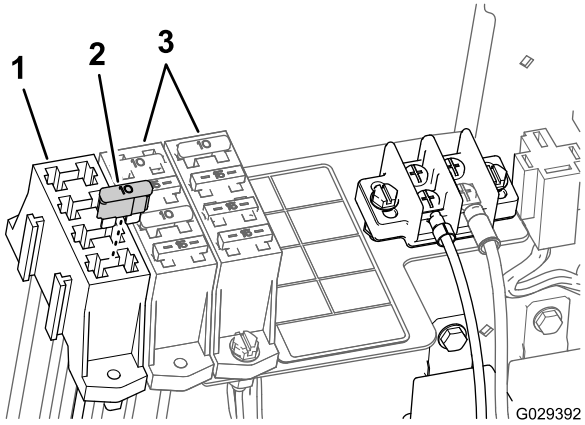



**Figure 24**

1. Auxiliary-fuse block
2. 15-amp fuse
3. Fuse blocks for the machine

# 6

# Installing the Switches

**Parts needed for this procedure:**

| | |
|---|---|
| 4 | Flange-head bolts (6 x 12 mm) |
| 1 | Mounting bracket (FOAM-CONTROL switch) |
| 1 | 3-position paddle switch (FOAM-CONTROL switch) |
| 1 | 2-position rocker switch (COMPRESSOR ON/OFF switch) |

## Installing the Foam-Control Switch

1. Align the slots in the mounting bracket for the FOAM-CONTROL switch with the 4 threaded inserts in the steering column (Figure 25).

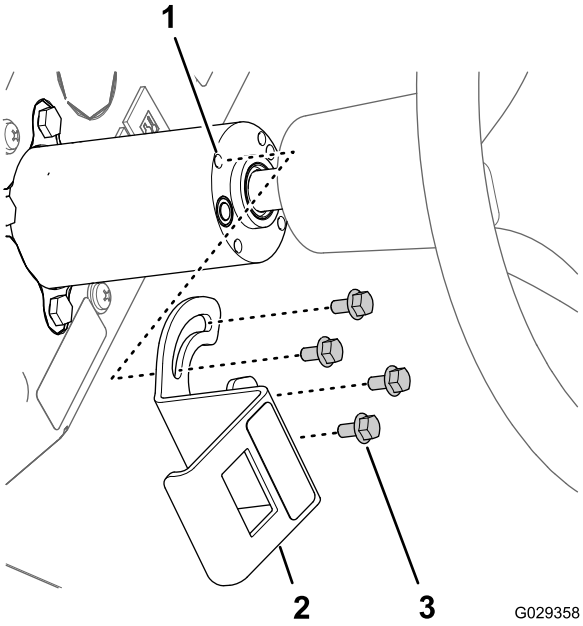



**Figure 25**

1. Threaded inserts (steering column)
2. Mounting bracket (FOAM-CONTROL switch)
3. Flange-head bolts (6 x 12 mm)

2. Assemble the bracket to the column with the 4 flange-head bolts (6 x 12 mm) and torque the bolts to 972 to 1198 N-cm (86 to 106 in-lb).
3. Align the 8-socket connector through the opening in the bracket and connect the connector to the pins (Figure 25) at the back of the 3-position paddle switch (FOAM-CONTROL switch).

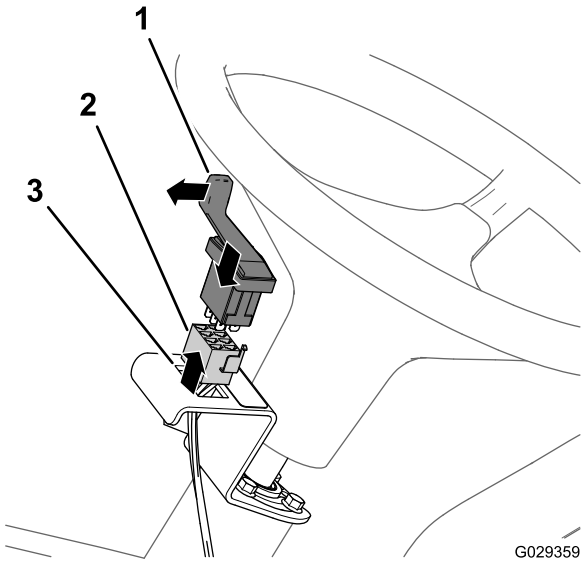



**Figure 26**

1. 3-position paddle switch (FOAM-CONTROL switch)
2. 8-socket connector
3. Opening (mounting bracket for the FOAM-CONTROL switch)

4. Assemble the switch into the bracket and press in the switch until it snaps securely into the opening (Figure 26).

   **Note:** Ensure that the paddle for the 3-position paddle switch (FOAM-CONTROL switch) is aligned outward.

## Installing the Compressor Switch

1. Remove the 5th plug to the right in the dash panel of the machine (Figure 27).

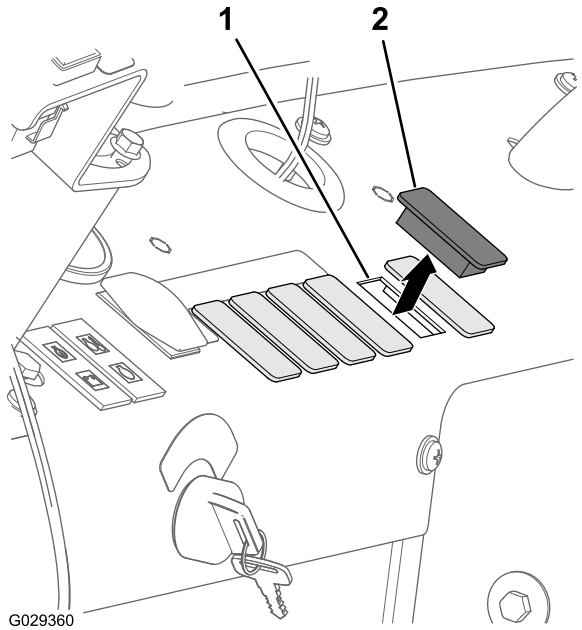



**Figure 27**

1. Dash opening (5th plug to the right)
2. Plug

2. Align the 8-socket connector through the opening in the dash panel and connect the connector (Figure 28) to the pins at the back of the 2-position rocker switch (COMPRESSOR ON/OFF switch).

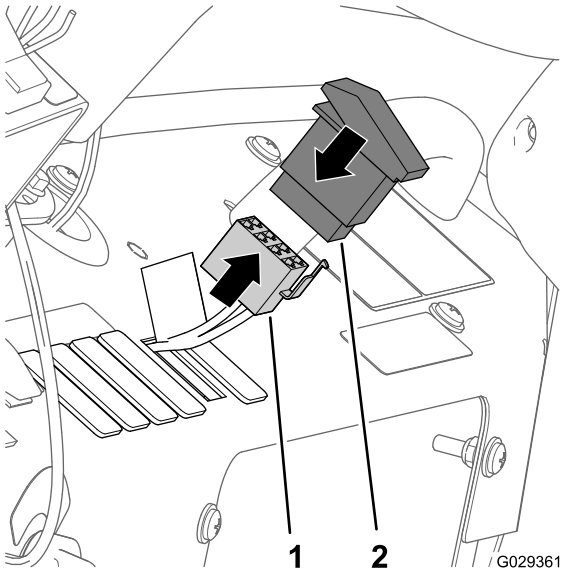



**Figure 28**

1. 8-socket connector
2. 2-position rocker switch (COMPRESSOR ON/OFF switch)

3. Assemble the switch into the dash panel and press in the switch until the it snaps securely into the opening (Figure 27 and Figure 28).

# 7

# Finishing the Installation of the Kit

**No Parts Required**

## Procedure

1. Move the prop rod for the seats into the slots and tilt the seats down.
2. Connect the positive (red) cable to the positive (+) battery post and the negative (black) cable to the negative (–) battery post using the bolts and nuts. Slide the insulator boot over both battery posts (Figure 2).
3. Install the battery cover and secure it with the strap (Figure 1) that you removed in 1 Preparing to Install the Kit (page 2).

# Operation

## Using the Controls

- COMPRESSOR ON/OFF switch—Use this switch to run the compressor for the foam marker system.
- FOAM-CONTROL switch—Use this switch to control which boom from which foam flows.
  - Move the paddle **down** to apply foam from the left-boom section.
  - Move the paddle to the **center** position apply foam from the left- and right-boom sections.
  - Move the paddle **up** to apply foam from the right-boom section.
- Indicator markings—The indicator markings are located at the side of the tank and indicate the solution level in the tank.
- FOAM-REGULATOR valve—This valve controls the consistency of the foam solution. Adjusting the valve controls the amount of soap solution delivered to the foam nozzles. Increasing the flow results in larger, more frequent foam drops; decreasing the flow results in smaller, less frequent foam drops (Figure 29).

  **Note:** A watery marker consistency may be helpful on windy days.
- PRESSURE RELIEF valve—Pull the red tab on the tank cap outward to relieve pressure in the tank (Figure 29).

  **Note:** During compressor operation, the pressure-relief valve continuously opens/closes to maintain tank pressure; it is normal to see foam-marker solution and bubbles around the pressure-relief valve. Clean the pressure-relief valve periodically to maintain proper function of the valve.

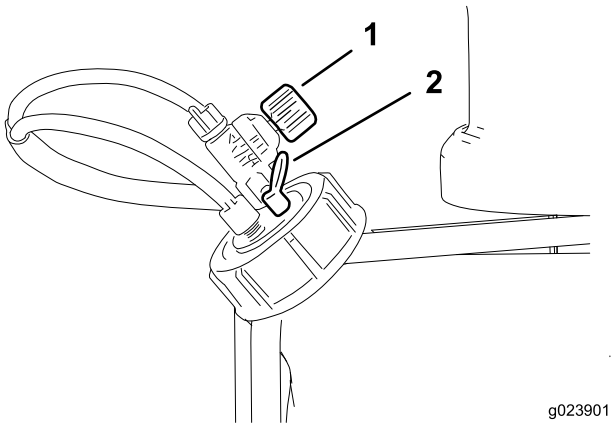



**Figure 29**

1. Foam regulator adjustment valve
2. Pressure-relief valve

# Notes:

# Notes:




**Count on it.**