Form No. 3443-276 Rev C

LED Light Kit

Sand Pro® 3040 or 5040 Traction Unit

Model No. 08740

Installation Instructions

Important: **Before installing this light kit on Sand Pro Model 08703 or Model 08705 machines with serial number 408784373 or lower, or on Model 08745 machines within the serial range of 411839064 through 411839074, you must install the Wire Harness Kit 140-0333.**

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	Carriage bolt (5/16 x 1 inch) Front support Lock washer (3/16 inch) Nut (3/16 inch) Rear bracket	2 1 2 2 1	Prepare the light
3	Wire harness	1	Route the wire harness.
4	No parts required	–	Install the dash switch.
5	R-clamp Flange-head capscrew (5/16 x 3/4 inch)	1 2	Assemble the front light to the machine.
6	Cable tie	5	Secure the wire harness.
7	Fuse (10 A)	1	Install the fuse.
8	No parts required	–	Finish the LED light kit installation.

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1

Preparing the Machine

No Parts Required

Parking the Machine

1. Park the machine on a level surface, move the traction pedal to the NEUTRAL position, move the throttle switch to the low-idle position, and lower the attachments; refer to your machine *Operator's Manual*.
2. Engage the parking brake, shut off the engine, remove the key, and wait for all movement to stop before leaving the operator's seat.

Disconnecting the Battery

⚠ WARNING

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

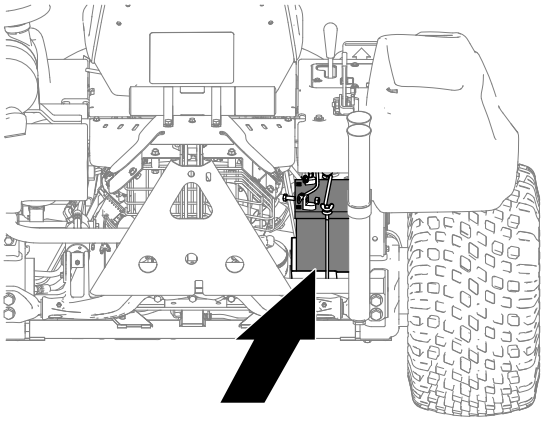
- **Always *disconnect* the negative (black) battery cable before disconnecting the positive (red) cable.**
- **Always *connect* the positive (red) battery cable before connecting the negative (black) cable.**

⚠ WARNING

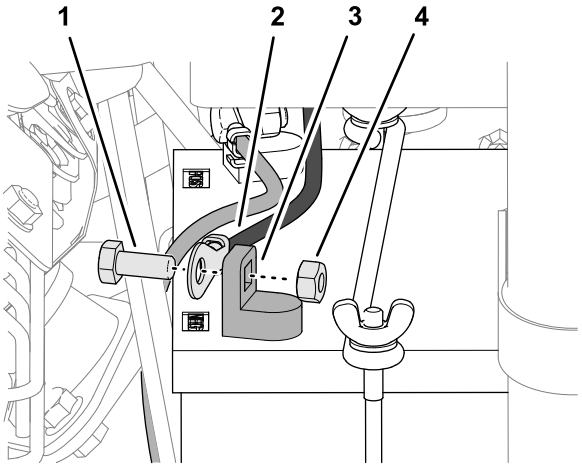
Battery terminals or metal tools could short against metal components, causing sparks. Sparks can cause the battery gasses to explode, resulting in personal injury.

- **When removing or installing the battery, do not allow the battery terminals to touch any metal parts of the machine.**
- **Do not allow metal tools to short between the battery terminals and metal parts of the machine.**

1. At the back of the machine, remove the capscrew and nut that secures the negative battery cable to the battery post (Figure 1).



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Figure 1

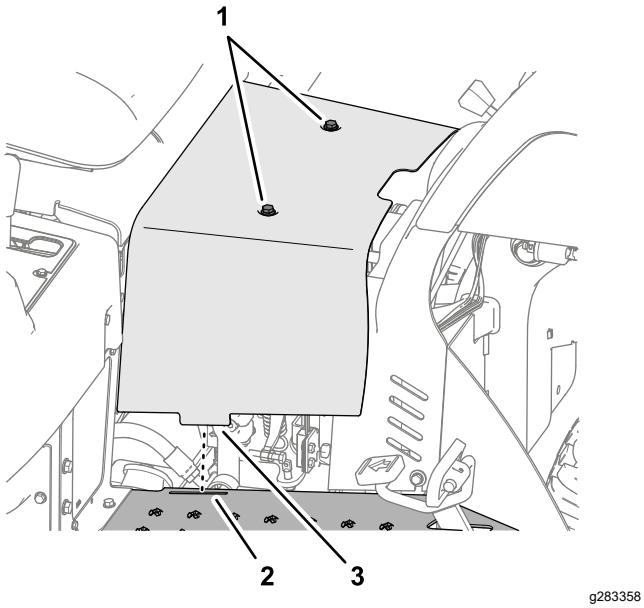
1. Capscrew
2. Negative battery cable
3. Battery post
4. Nut

2. Position the battery cable so that it does not contact the negative battery post.

Removing the Center Shroud

1. Evenly loosen the 2 capscrews that secure the center shroud to the machine (Figure 2).

   Note: The capscrews are captive fasteners, and have a retainer that keeps the screw with the cover.



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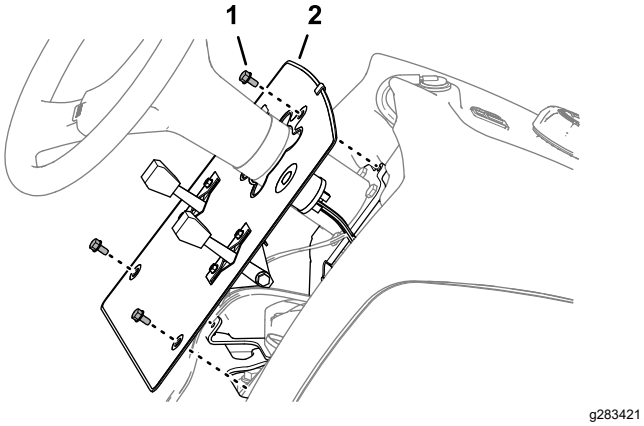
Figure 2

1. Capscrews (captive fasteners)
2. Slot (footrest)
3. Tab (center shroud)

2. Remove the center shroud from the machine (Figure 2).

Disassembling the Dash Panel

1. Remove the 3 flange-head capscrews that secure the dash panel to the frame of the machine (Figure 3).



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Figure 3

1. Flange-head capscrew
2. Dash panel

2. Move the dash panel rearward to provide access to the front side of the panel (Figure 3).

2

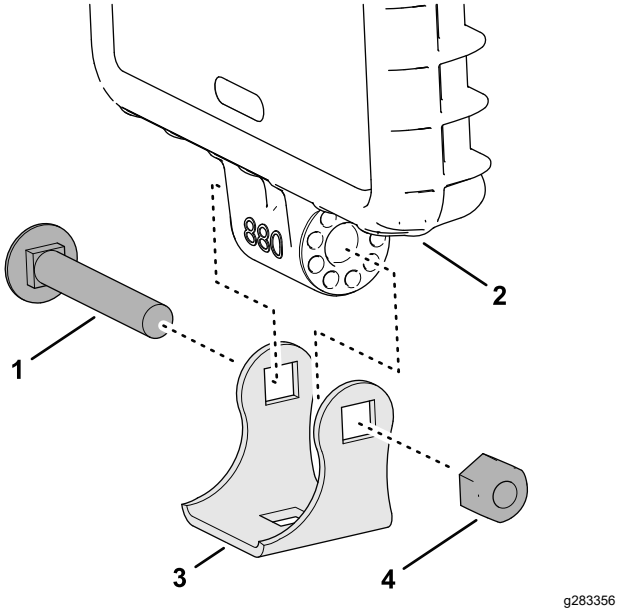
Preparing the Lights

Parts needed for this procedure:

2	Carriage bolt (5/16 x 1 inch)
1	Front support
2	Lock washer (3/16 inch)
2	Nut (3/16 inch)
1	Rear bracket

Assembling the Carriage Bolt to the Light

1. Remove the carriage bolt (3/16 x 2 inches) and nut (3/16 inch) that secures the bracket to the light (Figure 4).

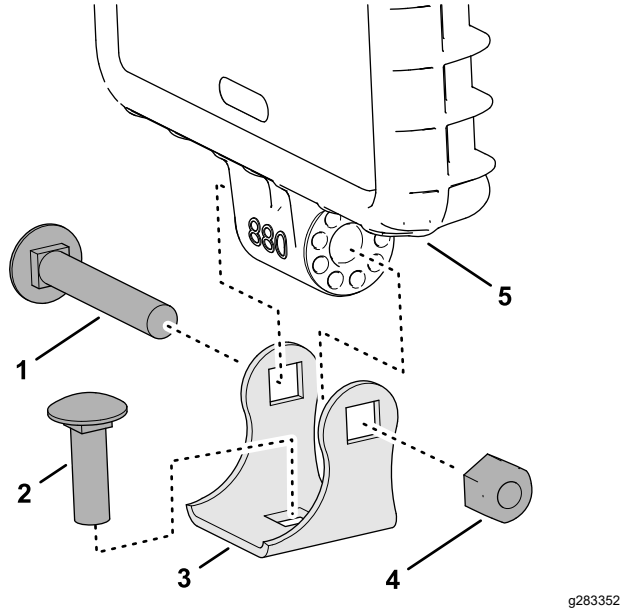


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Figure 4

1. Carriage bolt (3/16 x 2 inches)
2. Light
3. Bracket
4. Nut (3/16 inch)

2. Assemble the carriage bolt (5/16 x 1 inch) into the pivot bracket as shown in Figure 5.



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Figure 5

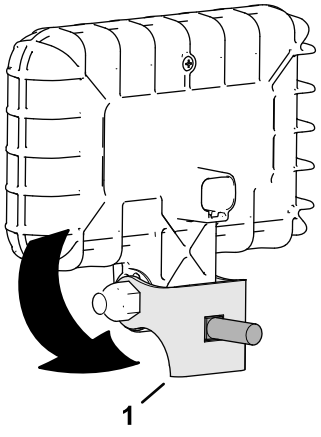
1. Carriage bolt (3/16 x 2 inches)
2. Carriage bolt (5/16 x 1 inch)
3. Pivot bracket
4. Nut (3/16 inch)
5. Light

3. Assemble the bracket and carriage bolt (5/16 x 1 inch) to the light with the carriage bolt (3/16 x 2 inches) and nut (3/16 inch), and tighten the nut by hand (Figure 5).
4. Repeat steps 1 through 3 for the other light.

Assembling the Light to the Front Support

Machines without the Lift Frame Kit

1. Rotate the bracket as shown in Figure 6.

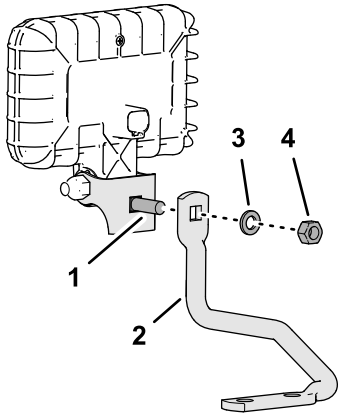


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Figure 6

1. Rotate the bracket toward the back of the light.

2. Assemble the light and carriage bolt to the front support with the lock washer (3/16 inch) and nut (3/16 inch) as shown in Figure 7.



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Figure 7

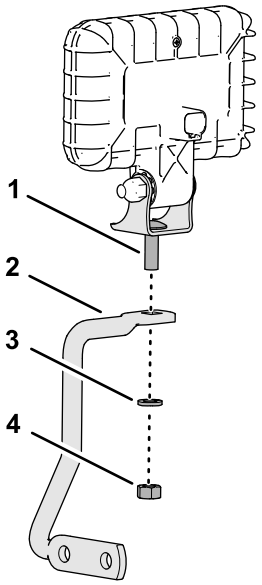
1. Carriage bolt (5/16 x 1 inch)
2. Front support (LED light)
3. Lock washer (3/16 inch)
4. Nut (3/16 inch)

3. Tighten the nut by hand.

Assembling the Light to the Front Support

Machines with the Lift Frame Kit

1. Assemble the light and carriage bolt to the front support with the lock washer (3/16 inch) and nut (3/16 inch) as shown in Figure 8.



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Figure 8

1. Carriage bolt (5/16 x 1 inch)
2. Front support (LED light)
3. Lock washer (3/16 inch)
4. Nut (3/16 inch)

2. Tighten the nut by hand.

Assembling the Light to the Rear Bracket

1. Assemble the light and carriage bolt to the rear bracket with the lock washer (3/16 inch) and nut (3/16 inch) as shown in Figure 9.

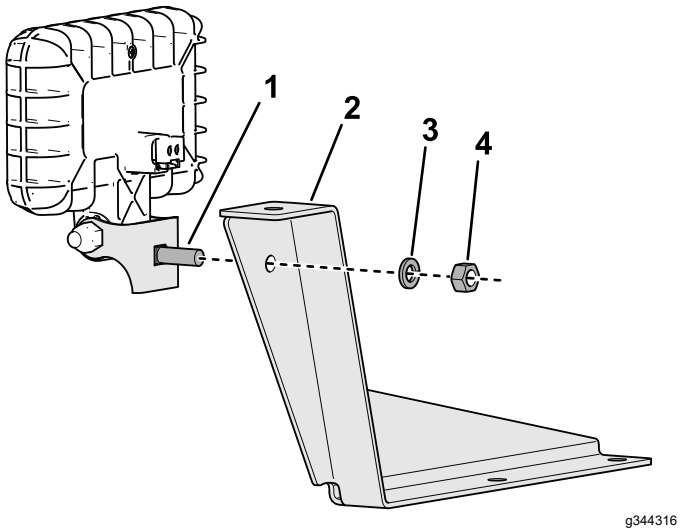


Figure 9

1. Carriage bolt (5/16 x 1 inch)
2. Rear bracket (LED light)
3. Lock washer (3/16 inch)
4. Nut (3/16 inch)

2. Tighten the nut by hand.

3

Routing the Wire Harness

Parts needed for this procedure:

1	Wire harness

Procedure

1. Route the 2-socket connector (labeled FRONT HEAD LIGHT), 8-socket connector, and the 2-pin connector of the LED light kit wire harness along the right frame channel and under the dash shroud (Figure 10 and Figure 11).

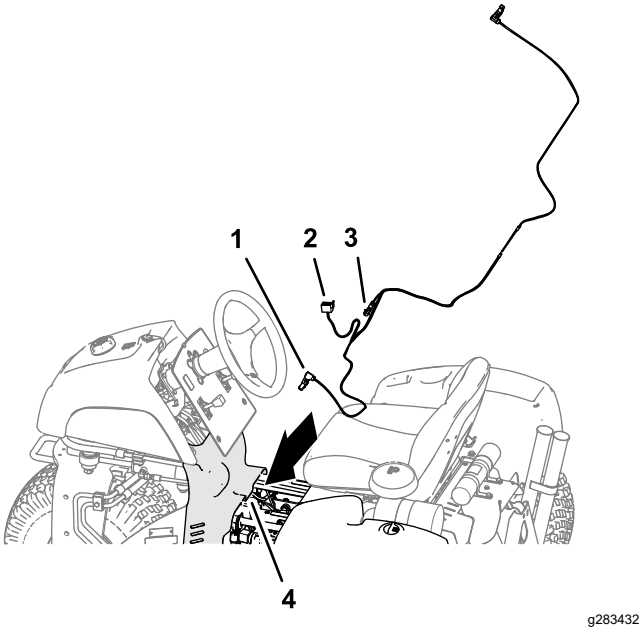


Figure 10

1. 2-socket connector (kit wire harness—labeled FRONT HEAD LIGHT)
2. 8-socket connector (kit wire harness)
3. 2-pin connector (kit wire harness)
4. Dash shroud

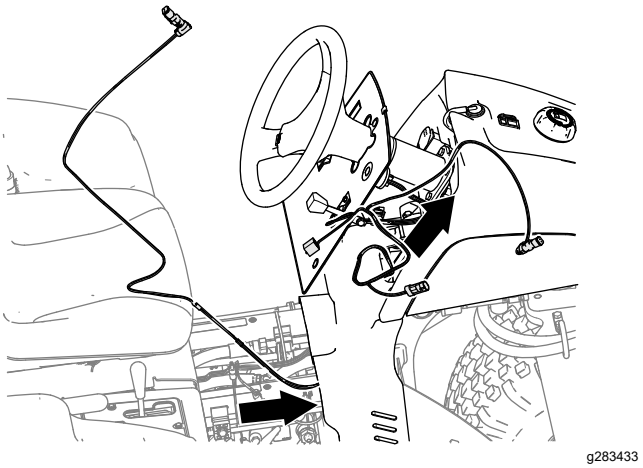
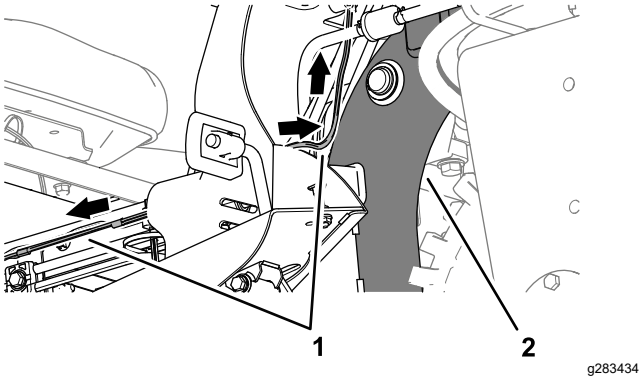


Figure 11

2. Route the kit wire harness up and along the steering-support tube (Figure 12).

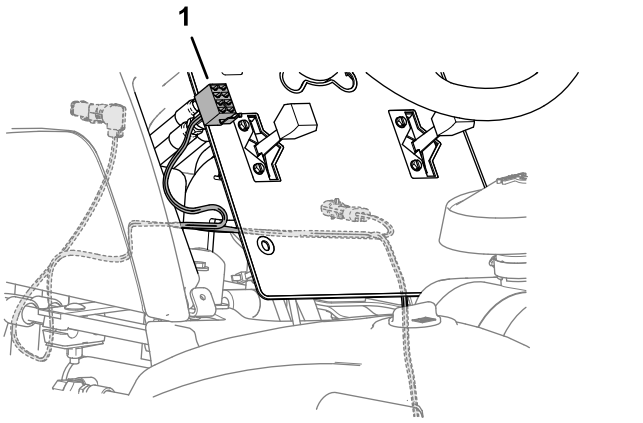


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Figure 12

1. Kit wire harness
2. Steering-support tube

3. Route the 8-socket connector of the wire harness to the left side of the dash panel (Figure 13).

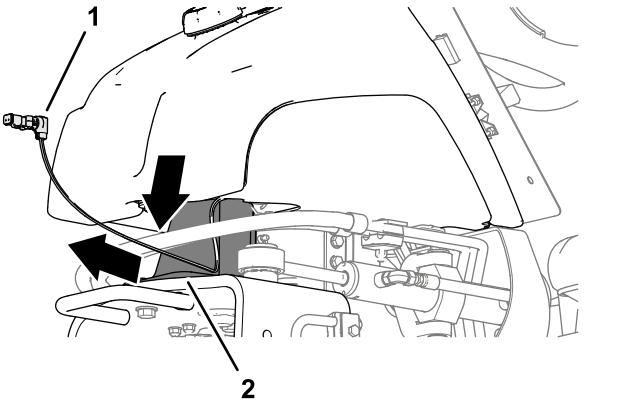


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Figure 13

1. 8-socket connector

4. Route the 2-socket connector of the kit wire harness along the steering pivot and forward of the fuel tank (Figure 14).

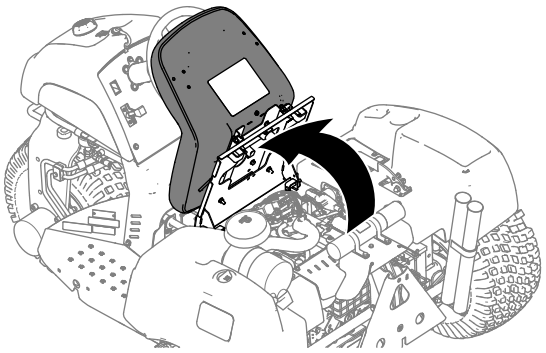


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Figure 14

1. 2-socket connector (kit wire harness)
2. Steering pivot

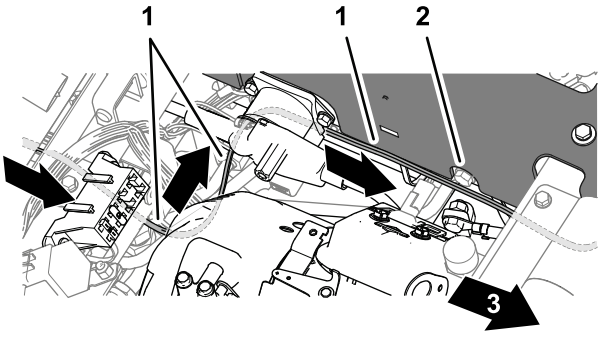
5. Rotate the operator's seat forward (Figure 15).



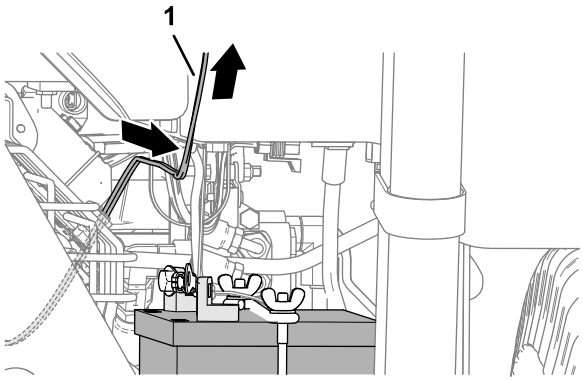
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Figure 15

6. Route the wire harness along the right side of the machine, rearward along support tube for the console (Figure 16).



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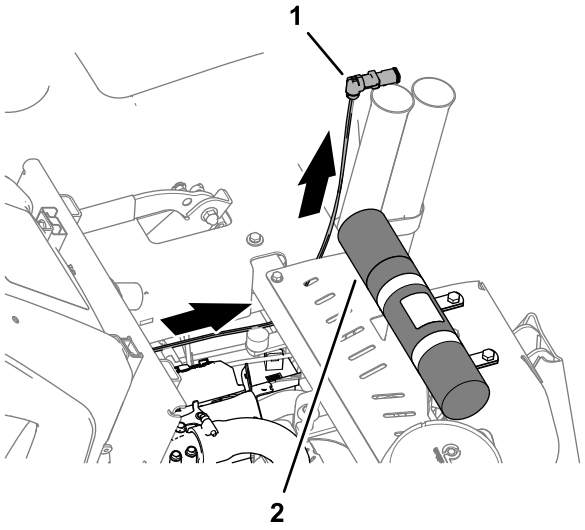


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Figure 16

1. Kit wire harness
2. Console
3. Back of the machine

7. Route the 2-socket connector of the kit wire harness labeled REAR HEAD LIGHT up and to the right of the document tube (Figure 17).



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Figure 17

1. 2-socket connector (kit wire harness—labeled REAR HEAD LIGHT)
2. Document tube

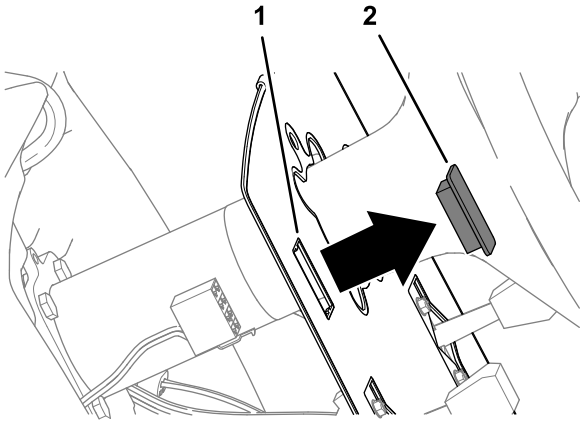
4

Connecting the Dash Components

No Parts Required

Procedure

1. Remove the plug from the dash panel as shown in Figure 18.

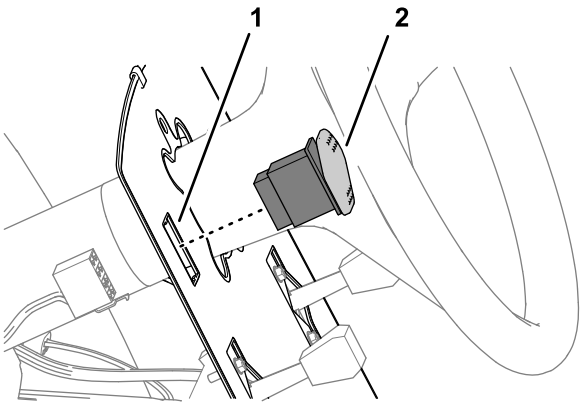


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Figure 18

1. Dash panel
2. Plug

2. Insert the switch into the opening in the dash panel (Figure 19).

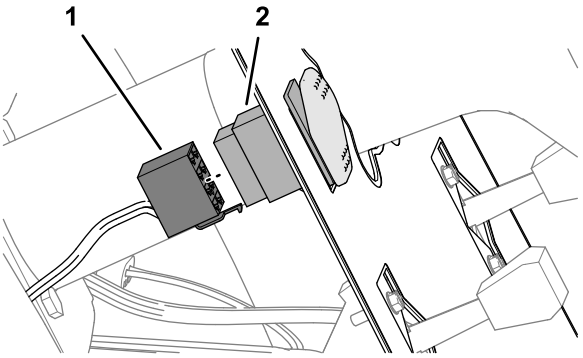


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Figure 19

1. Dash panel opening
2. Switch

3. Plug the 8-socket connector of the kit wire harness onto the connector of the switch (Figure 20).

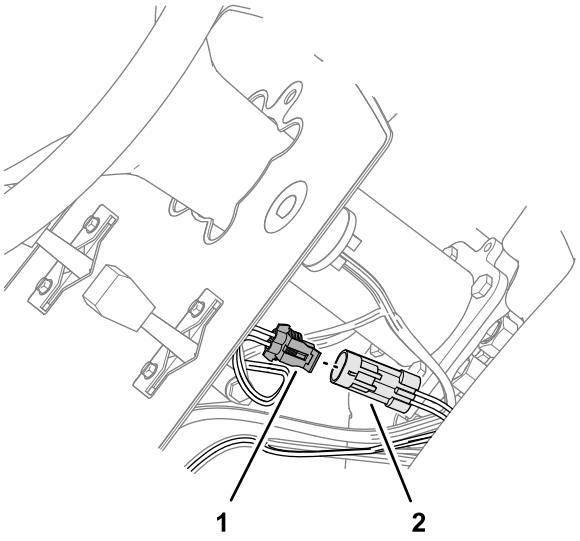


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Figure 20

1. 8-socket connector (kit wire harness)
2. Switch

4. Plug the 2-pin of the kit wire harness into the 2-socket connector of the machine wire harness labeled OPTIONAL LIGHT KIT (Figure 21).



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Figure 21

1. 2-socket connector (machine wire harness—labeled OPTIONAL LIGHT KIT)
2. 2- pin (kit wire harness)

5

Installing the Front LED Lights

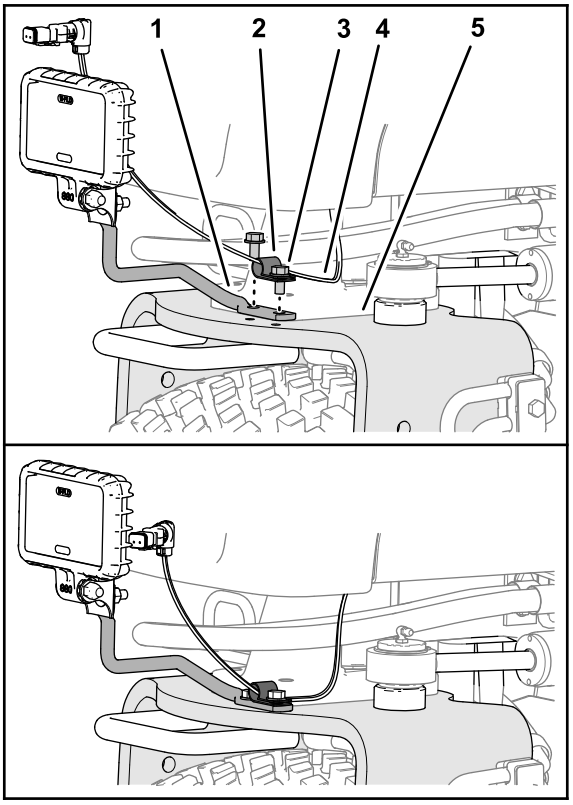
Parts needed for this procedure:

1	R-clamp
2	Flange-head capscrew (5/16 x 3/4 inch)

Assembling the Front Light to the Machine

Machines without the Front Lift Kit

1. Assemble the R-clamp over the wire harness as shown in Figure 22



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Figure 22

1. Front support (LED light)
2. R-clamp
3. Flange-head capscrew (5/16 x 3/4 inch)
4. Kit wire harness
5. Castor fork

2. Align the holes in the front support and the R-clamp with the holes in the castor fork (Figure 22).
3. Assemble the front support and the R-clamp to the castor fork (Figure 22) with 2 flange-head capscrews (5/16 x 3/ inch).
4. Torque the capscrews to 1978 to 2542 N·cm (175 to 225 in-lb).

Assembling the Front Light to the Machine

Machines with the Front Lift Kit

1. Remove the 2 capscrews (3/8 x 2 inches) and 2 locknuts (3/8 inch) that secure the guide brackets for the front lift kit to the caster-fork bracket (Figure 23).

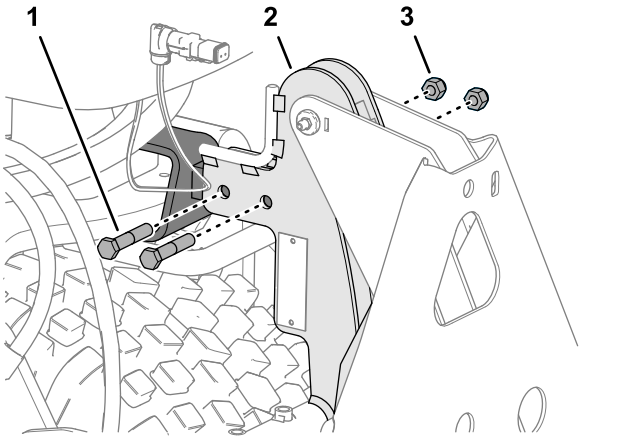


Figure 23

1. Capscrew (3/8 x 2 inches)
2. Guide bracket
3. Locknut (3/8 inch)

2. Assemble the R-clamp over the wire harness as shown in Figure 24.

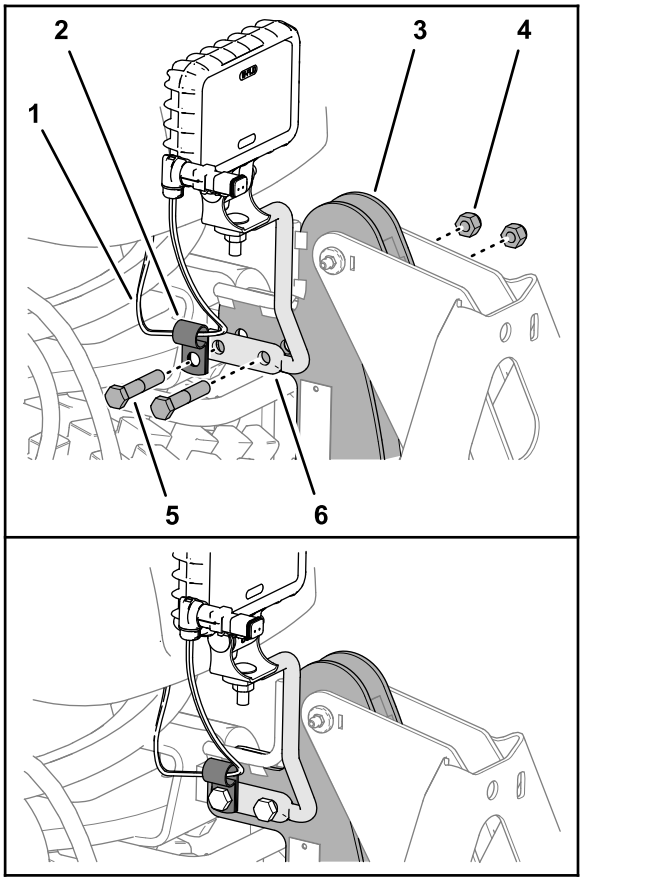


Figure 24

1. Kit wire harness
2. R-clamp
3. Guide bracket
4. Locknut (3/8 inch)
5. Capscrew (3/8 x 2 inches)
6. Front support (LED light)

3. Align the holes in the front support and the R-clamp with the holes in the guide bracket and the caster-fork bracket (Figure 24).
4. Assemble the front support and the R-clamp to the guide bracket (Figure 24) with the 2 capscrews (3/8 x 2 inches) and 2 locknuts (3/8 inch) that you removed in step 1.
5. Torque the capscrews and locknuts to 37 to 45 N·m (27 to 33 ft-lb).
6. Plug the 2-socket connector of the kit wire harness labeled FRONT HEAD LIGHT into the front LED light (Figure 25).

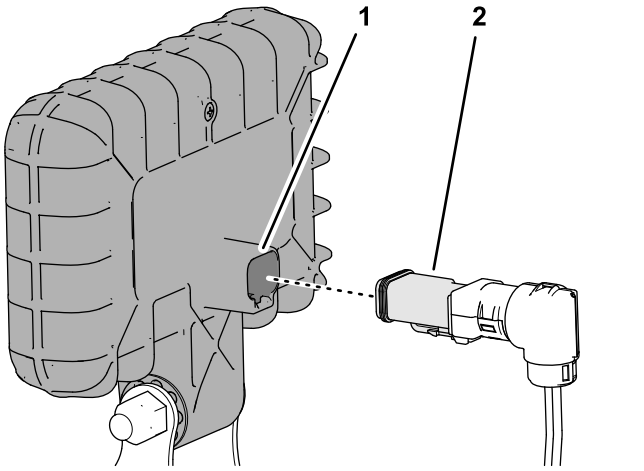


Figure 25

1. 2-pin connector (LED Light)
2. 2-socket connector (kit wire harness—labeled FRONT HEAD LIGHT)

Assembling the Rear Light to the Machine

1. Remove the 2 capscrews (5/16 x 5/8 inch) and 2 flange locknuts (5/16 inch) that secure the document tube R-clamps to the rear cover of the machine (Figure 26).

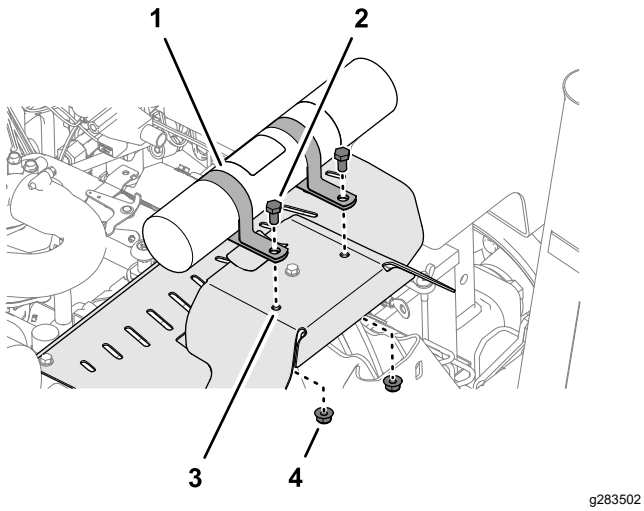
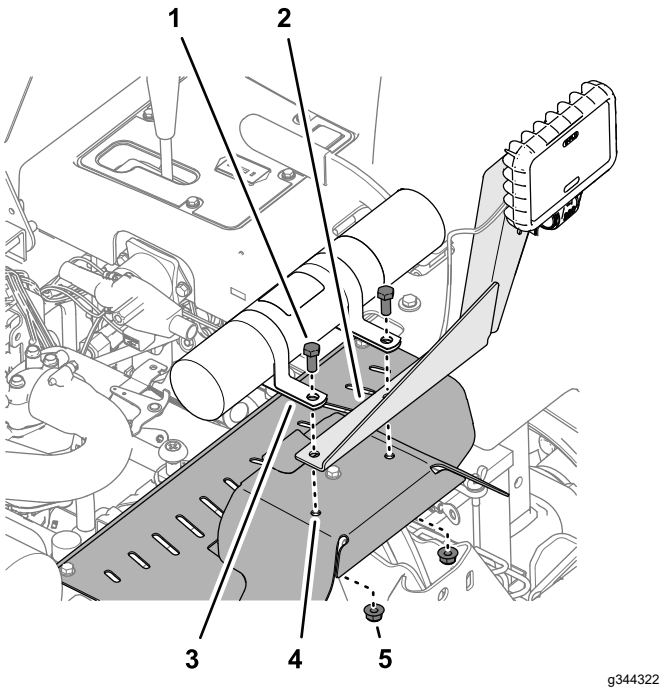


Figure 26

1. R-clamp (document tube)
2. Capscrew (5/16 x 5/8 inch)
3. Rear cover
4. Flange locknut (5/16 inch)

2. Align the holes in the R-clamps and the rear LED bracket with the holes in the rear cover (Figure 27).



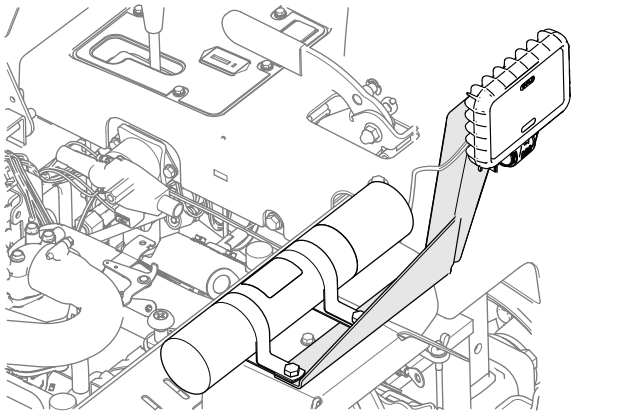


Figure 27

1. Capscrew (5/16 x 5/8 inch)
2. Rear bracket (LED light)
3. R-clamp (document tube)
4. Rear cover
5. Flange locknut (5/16 inch)

3. Assemble the rear light bracket and the R-clamp to the rear cover (Figure 27) with the 2 capscrews (5/16 x 5/8 inch) and 2 locknuts (5/16 inch) that you removed in step 1.
4. Torque the capscrews and locknuts to 1978 to 2542 N·cm (175 to 225 in-lb).
5. Plug the 2-socket connector of the kit wire harness labeled REAR HEAD LIGHT into the front LED light (Figure 28).

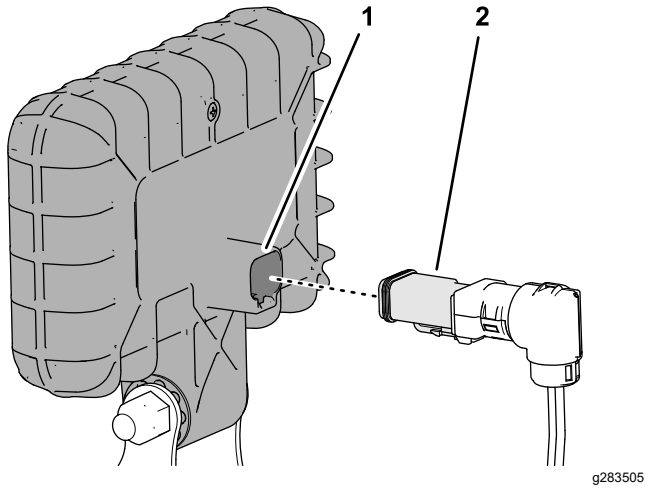


Figure 28

1. 2-pin connector (LED Light)
2. 2-socket connector (kit wire harness—labeled REAR HEAD LIGHT)

6

Securing the Wire Harness

Parts needed for this procedure:

5	Cable tie

Procedure

1. Fully loosen the 4 capscrews that secure the side-control console to the machine (Figure 29).

   Note: Do not remove the control console from the machine.

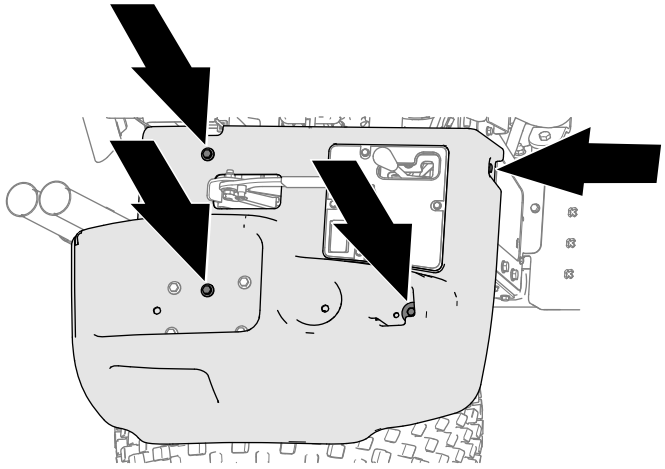
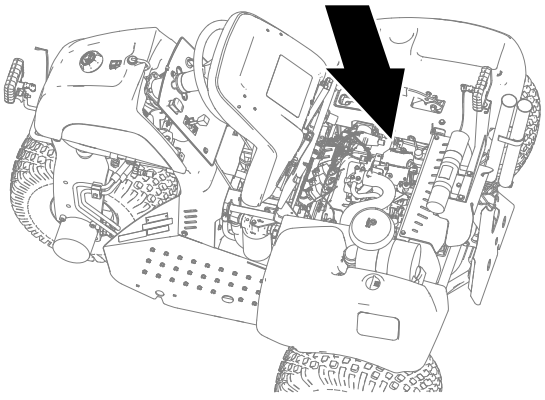


Figure 29

2. Secure the kit wire harness with a cable tie at the rear brace of the frame (Figure 30).



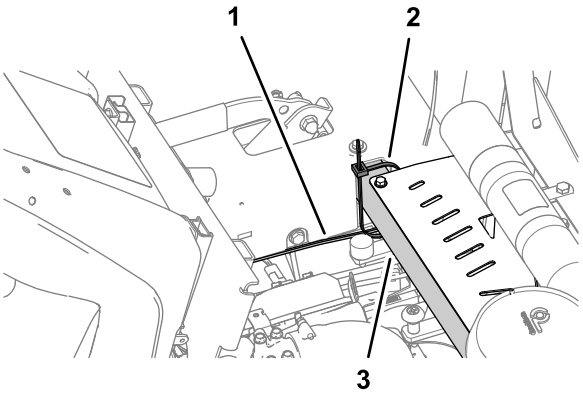


Figure 30

1. Kit wire harness
2. Cable tie
3. Rear brace (frame)

3. Lift the edge of the side-control console and wrap a cable tie around the right support tube (Figure 31).

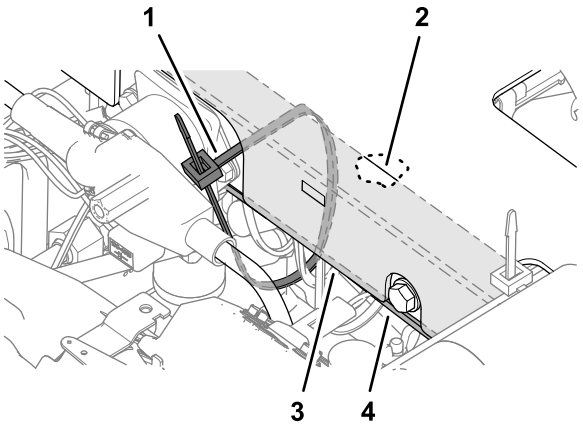
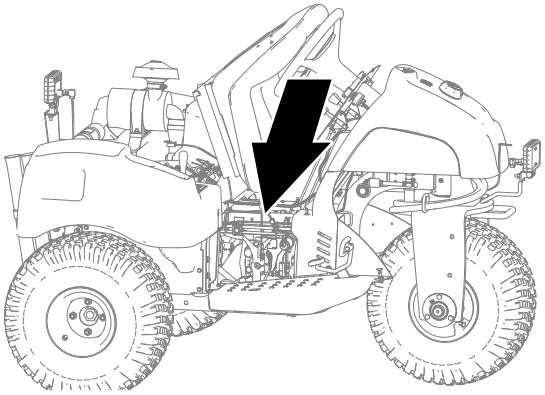


Figure 31

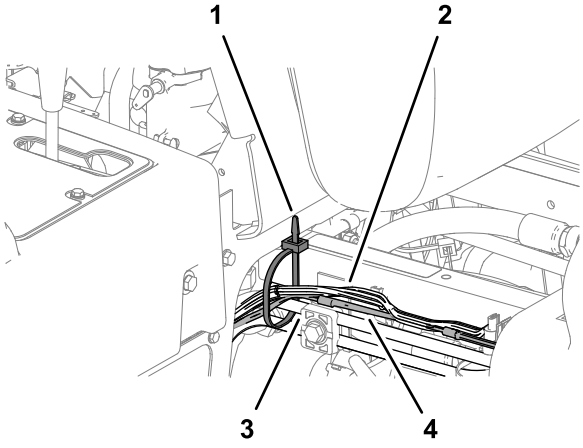
1. Cable tie
2. Right support tube
3. Side-control console
4. Kit wire harness

4. Secure the kit wire harness to the right support tube with the cable tie (Figure 31).

5. Tighten the 4 capscrews that secure the side-control console to the machine (Figure 29).
6. Secure the kit wire harness to the machine wire harness and hydraulic tube as shown in Figure 32.



g283593

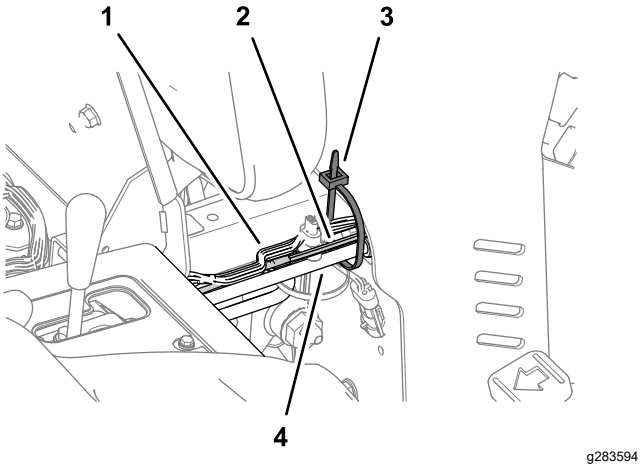


g283595

Figure 32

1. Cable tie
2. Machine wire harness
3. Hydraulic tube
4. Kit wire harness

7. Secure the kit wire harness to the machine wire harness and hydraulic tube as shown in Figure 33.

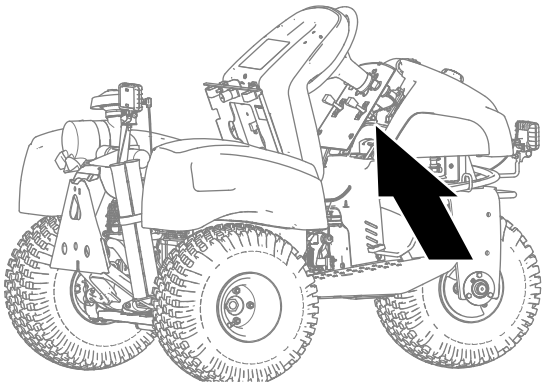


g283594

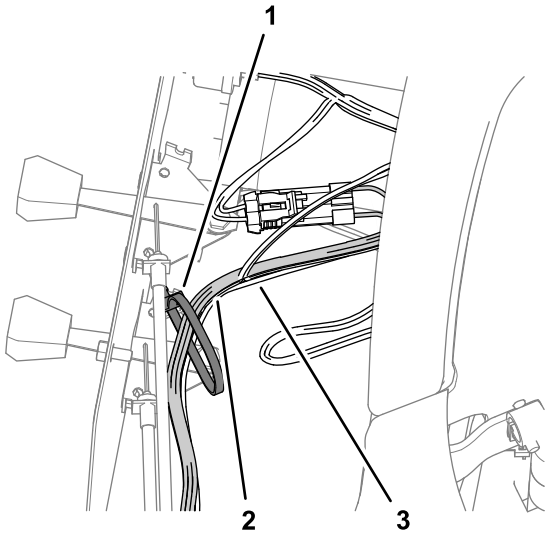
Figure 33

1. Machine wire harness
2. Kit wire harness
3. Cable tie
4. Hydraulic tube

8. Secure the kit wire harness to the machine wire harness as shown in Figure 34.



g283591



g283592

Figure 34

1. Cable tie
2. Kit wire harness
3. Machine wire harness

7

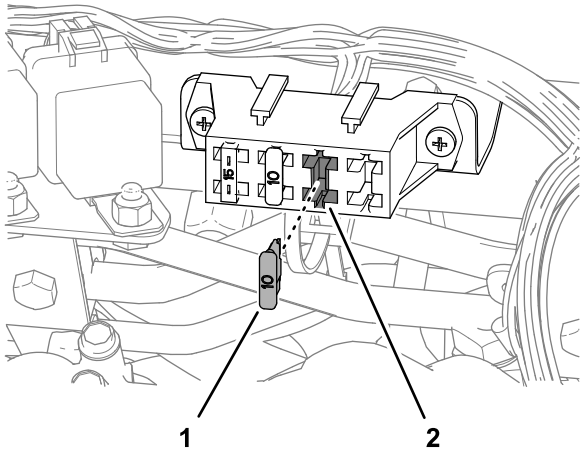
Installing the Fuse

Parts needed for this procedure:

1	Fuse (10 A)

Procedure

Insert the fuse (10 A) into slot 3 of the fuse block (Figure 35).



g283510

Figure 35

1. Fuse (10 A)
2. Slot 3 (fuse block)

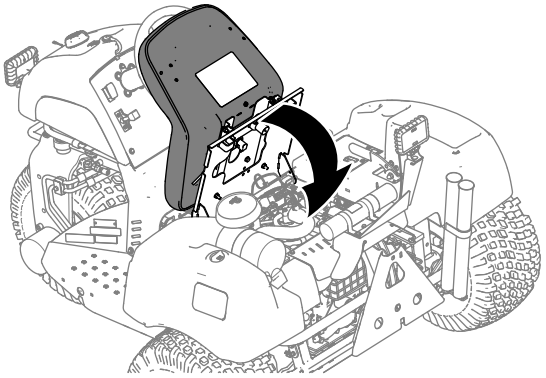
8

Finishing the LED Light Kit Installation

No Parts Required

Procedure

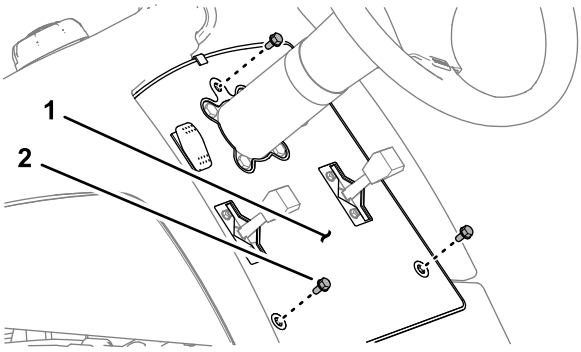
1. Rotate the operator's seat down until it latches (Figure 36).



g283511

Figure 36

2. Align the holes in the dash panel with the holes in the frame bracket (Figure 37).

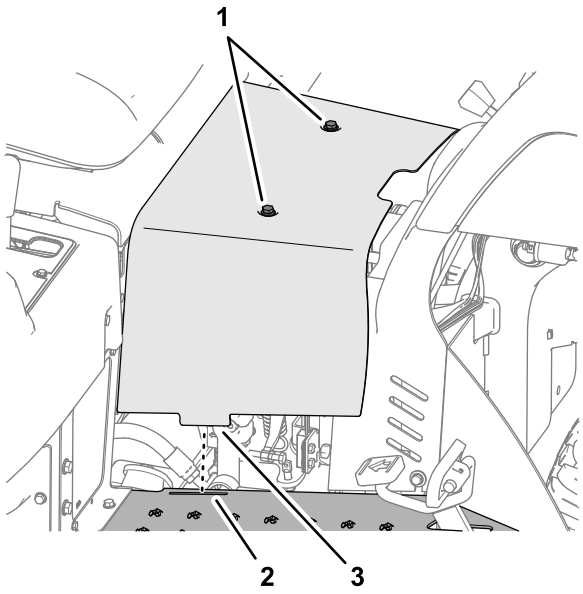


g283512

Figure 37

1. Dash panel
2. Flange-head capscrew

3. Secure the dash panel to the bracket with the 3 flange-head capscrews (Figure 37) that you removed in Disassembling the Dash Panel (page 3).
4. Align the tabs of the center shroud with the slots in the left and right footrests (Figure 38).

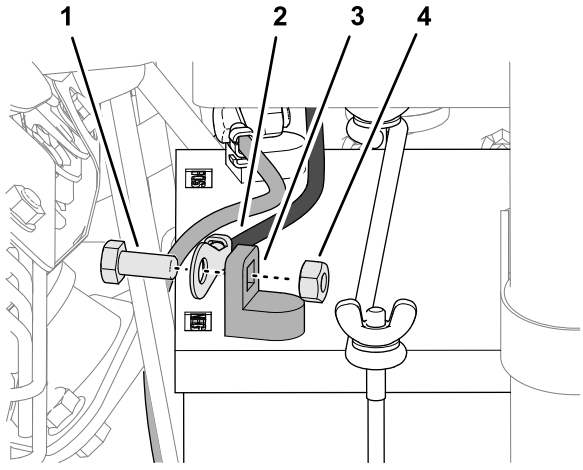


g283358

Figure 38

1. Capscrews (captive fasteners)
2. Slot (footrest)
3. Tab (center shroud)

5. Thread the capscrews of the shroud evenly into the frame of the machine (Figure 38).
6. Connect the negative battery cable to the battery post with the capscrew and nut (Figure 39) that you removed in 1 Preparing the Machine (page 2).



g283343

Figure 39

1. Capscrew
2. Negative battery cable
3. Battery post
4. Nut

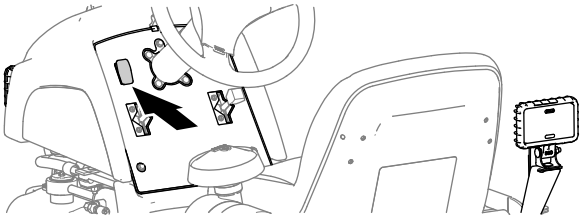
Operation

Operating the Lights

With the ignition key in the run position

1. Start the engine; refer to the *Operator's Manual*.
2. Use the light switch as follows:
   - Push the light switch (Figure 40) up to turn on the lights.

     Both lights illuminate.
   - Push the light switch (Figure 40) down to turn off the lights.



g283600

Figure 40

Notes:



Count on it.