



GeoLink® Upgrade Kit

Multi Pro® 1750 or 5800 Turf Sprayer

Model No. 41691

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	—	Remove existing components.
3	Navigation receiver Receiver mount (Multi Pro 5800) Receiver mount (Multi Pro 1750) Bolts (M5) Washer	1 1 1 4 4	Install the navigation receiver.
4	Harness adapter	1	Install the adapter harness.
5	Antenna mount High gain antenna (sold separately)	1 1	Install the modem antennas to the machine.
6	Display bracket Bolt (5/16 x 3/4 inches) Nut (5/16 inch)	1 4 4	Install the display bracket.
7	Display Ball mount Display arm	1 1 1	Mount the display.
8	Modem data harness—300 cm (118 inches)	1	Route the modem data harness.
9	CL-55 modem	1	Install the CL-55 modem.
10	No parts required	—	Power the GeoLink components.
11	No parts required	—	Complete the software setup.



1

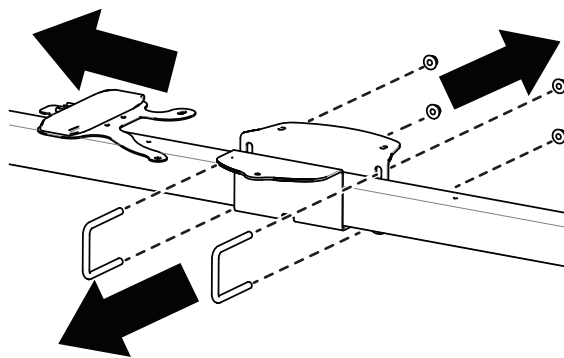
Preparing the Machine

No Parts Required

Procedure

Refer to the *Operator's Manual* for your machine.

1. Park the machine on a level surface and engage the parking brake.
2. Shut off the engine, remove the key, and disconnect the battery; refer to your machine *Operator's Manual*.



g450252

Figure 2
Multi-Pro 5800

2

Removing Existing Components

No Parts Required

Procedure

Remove the navigation receiver, antenna, and brackets from your machine.

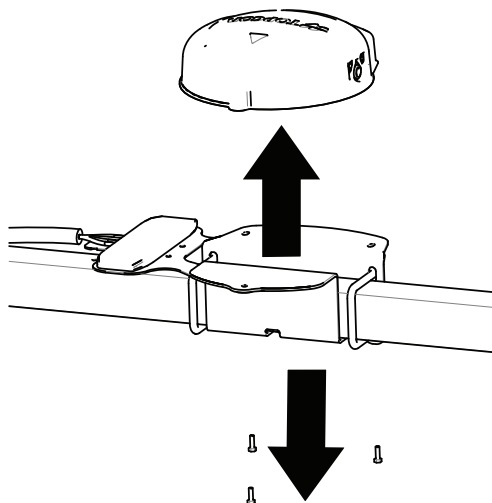
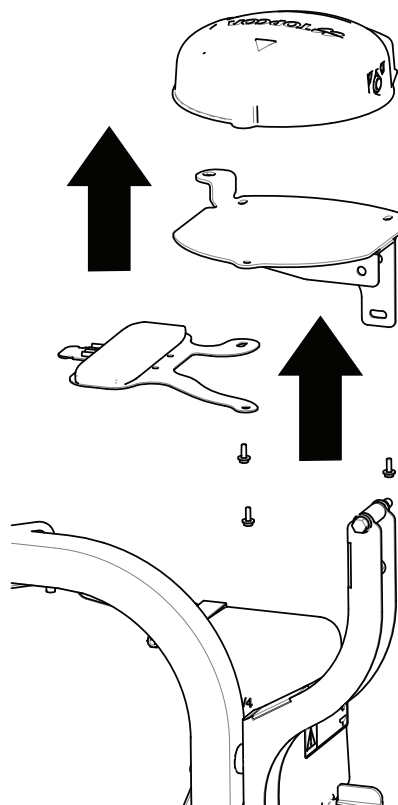


Figure 1
MultiPro 5800

g450253



g450251

Figure 3
MultiPro 1750

3

Installing the Navigation Receiver

Parts needed for this procedure:

1	Navigation receiver
1	Receiver mount (Multi Pro 5800)
1	Receiver mount (Multi Pro 1750)
4	Bolts (M5)
4	Washer

Installing the Navigation Receiver on the Multi Pro 5800 Machine

1. Secure the receiver to the receiver mount using 4 bolts (M5) and 4 washers.

Note: Ensure that both arrows are pointing toward the front of the machine.

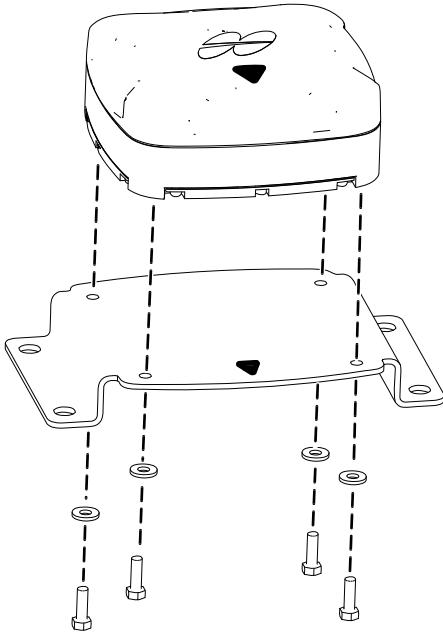
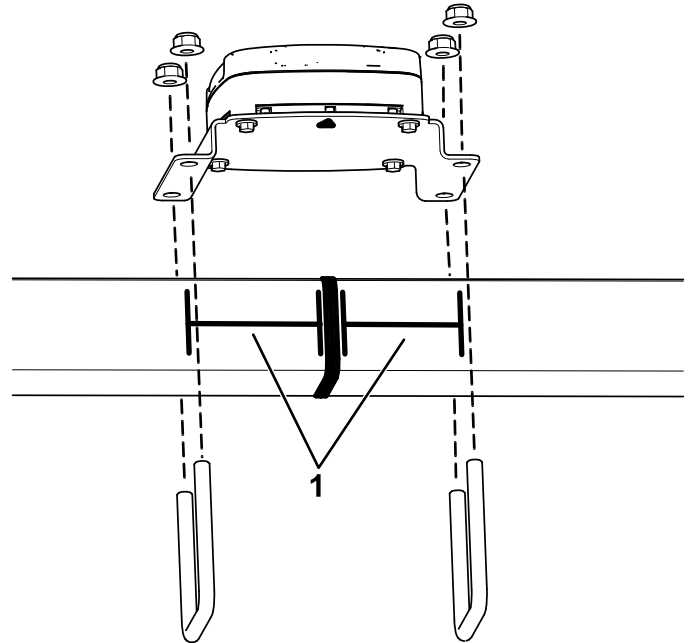


Figure 4

g423319

2. Line up the arrow on the receiver mount with the middle of the roll bar and secure the assembly onto the ROPS using the previously removed 4 U-bolts and locknuts.



g412964

Figure 5

1. Ensure that these are the same measurements.

Installing the Navigation Receiver on the Multi Pro 1750 Machine

Secure the receiver to the receiver mount using 4 bolts (M5) and 4 washers.

Note: Ensure that both arrows are pointing toward the front of the machine.

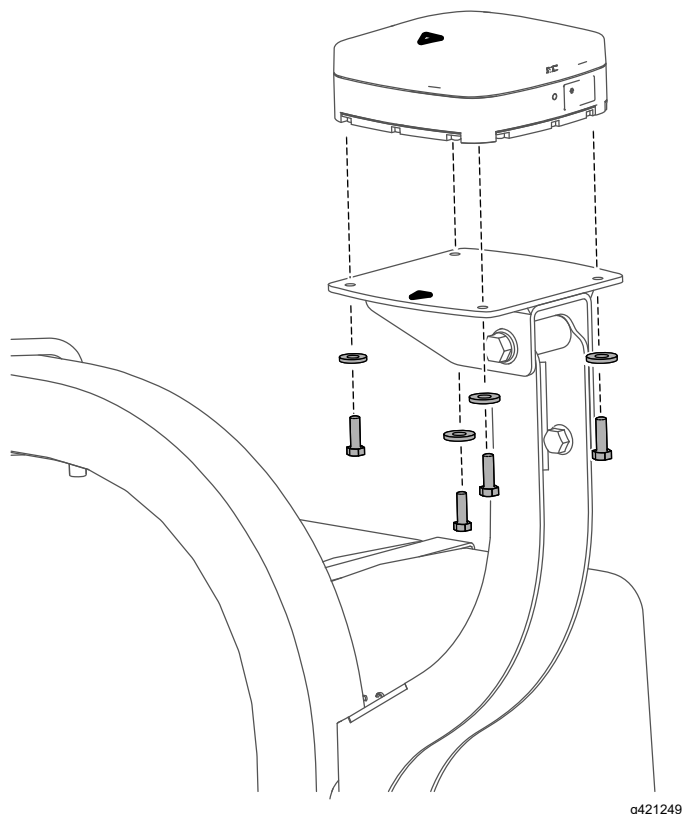


Figure 6

g421249

4

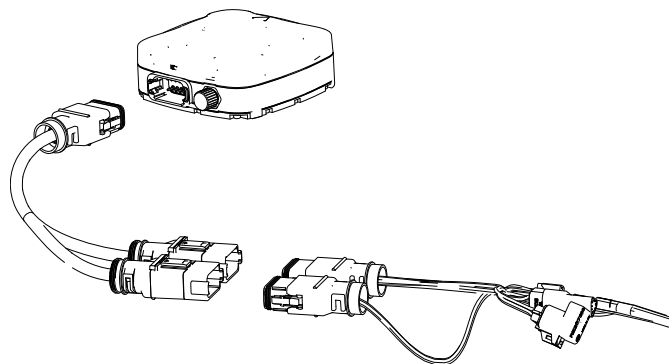
Installing the Harness Adapter

Parts needed for this procedure:

1	Harness adapter
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Procedure

1. Route the 302 cm (119 inches) branch of the navigation-data and electrical harness along the right ROPS tube with the 12-socket connector (**gray**) and 12-socket connector (**black**) up toward the navigation receiver.
2. Connect the 2 connectors at the long face of the 12-socket connector of the data harness labeled **AGI 4 A KEY (GREY)** with the 2 connector slots into the adapter harness.



g420537

Figure 7

3. Plug the adapter harness into the receiver.

5

Installing the Antennas to the Machine

Parts needed for this procedure:

1	Antenna mount
1	High gain antenna (sold separately)

Installing the Modem Antennas

1. Install the modem antenna bracket to the roll bar.

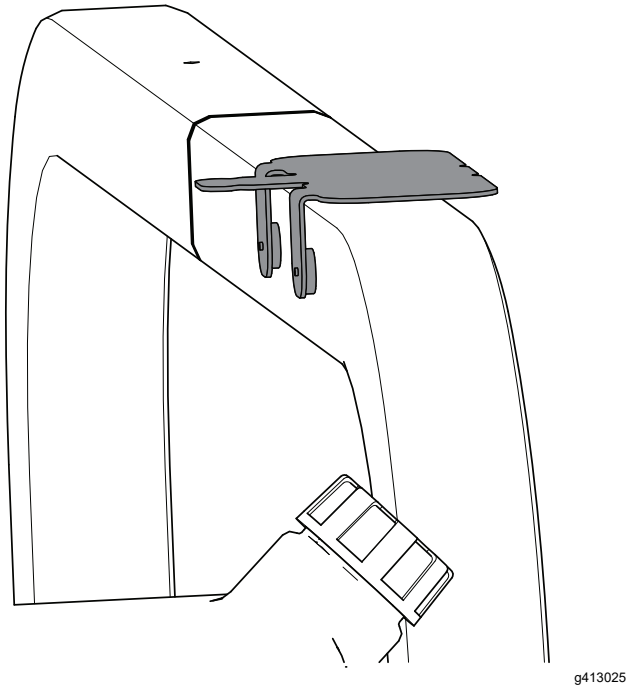


Figure 8
MultiPro 5800

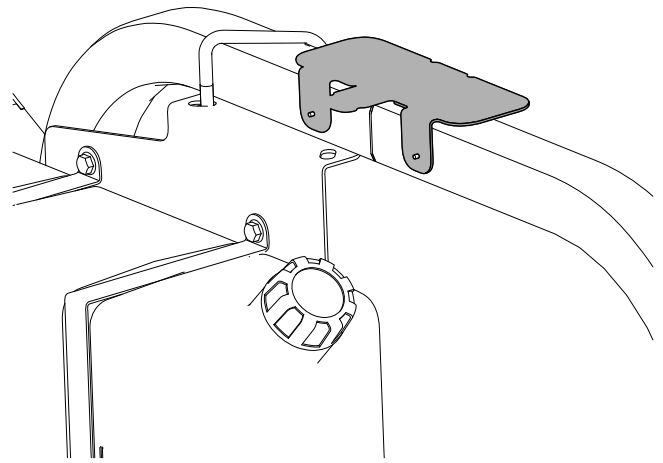


Figure 9
MultiPro 1750

2. Clean any grease or oil from the antenna mount surface.
3. Remove the backing from the double sided adhesive liner and adhere the antenna to the mount.

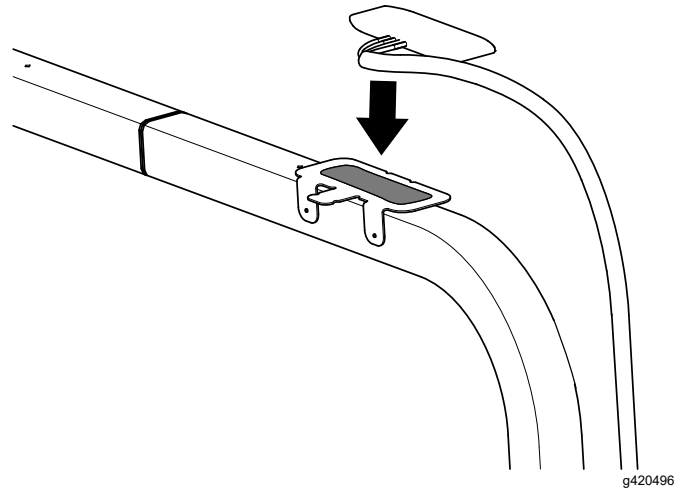


Figure 10
MultiPro 5800

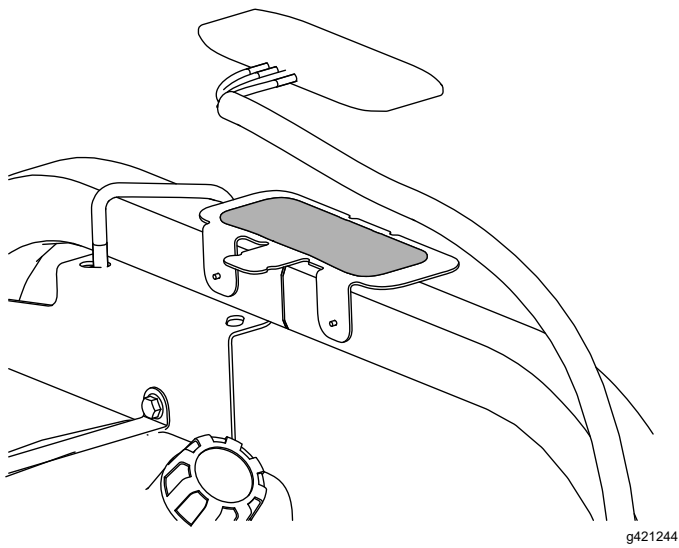


Figure 11
MultiPro 1750

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4. Secure the antenna and wire harness to the mount with 3 cable ties.

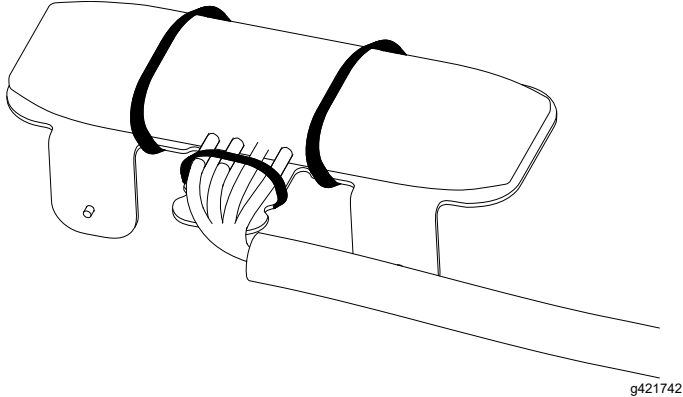


Figure 12

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5. Place the high gain antenna on the roll bar.

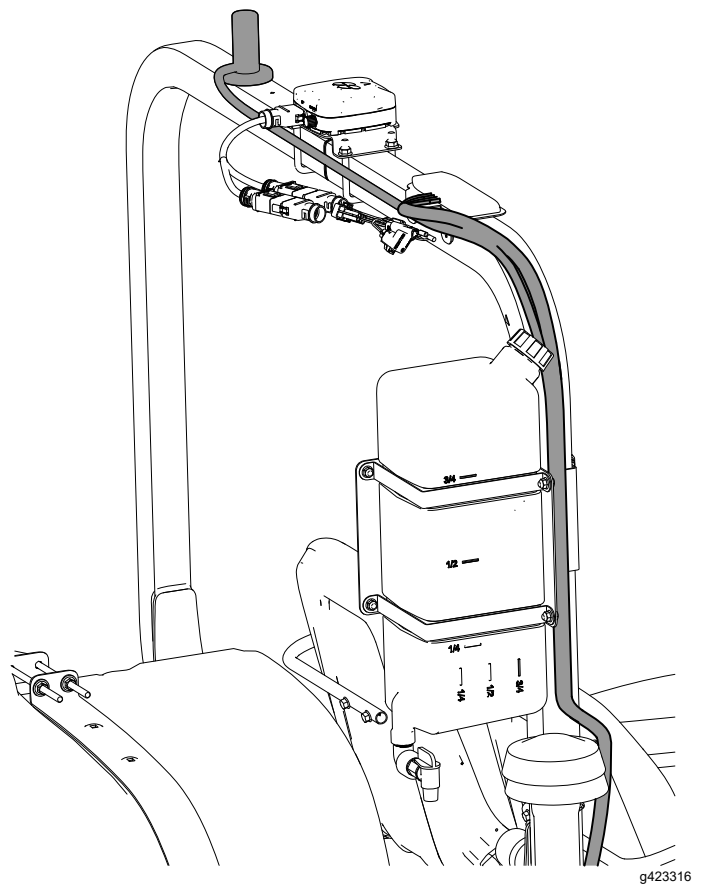


Figure 13
MultiPro 5800

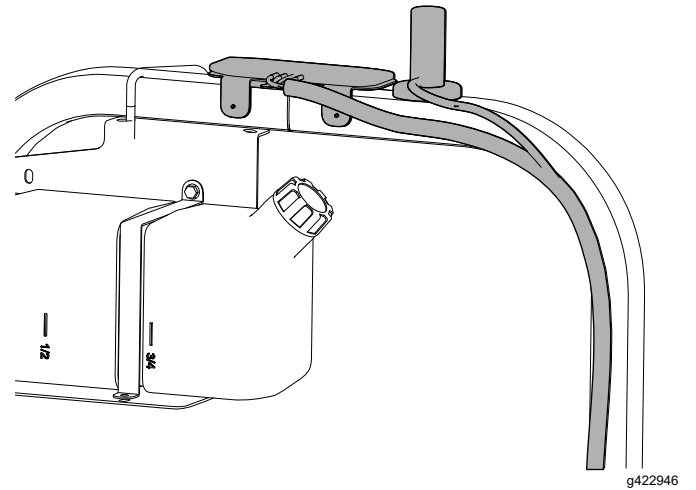


Figure 14
MultiPro 1750

Routing the Modem-Antenna Harnesses (MultiPro 1750)

1. Route the modem-antenna harnesses to the right, along the roll bar.



Figure 15

g422945

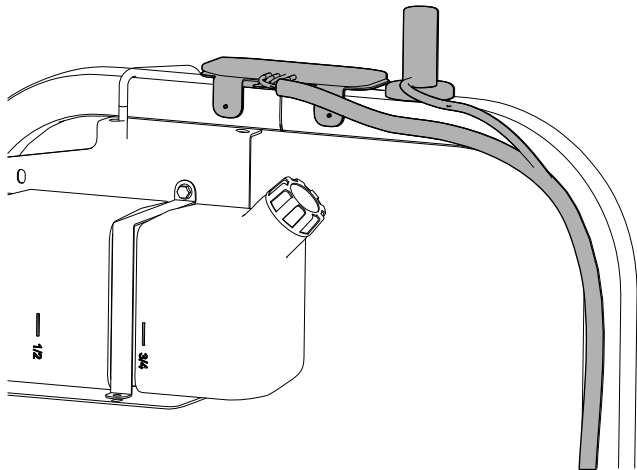


Figure 16

g422946

2. Route the harness down and forward.

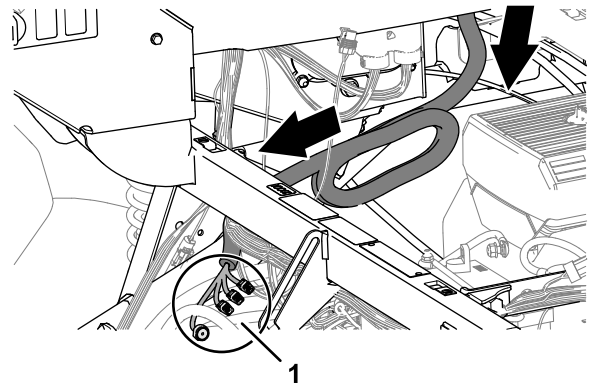


Figure 17

g314602

1. Connectors (modem-antenna harness)

Routing the Modem-Antenna Harnesses (MultiPro 5800)

1. Route the modem-antenna harnesses to the right, along the roll bar.

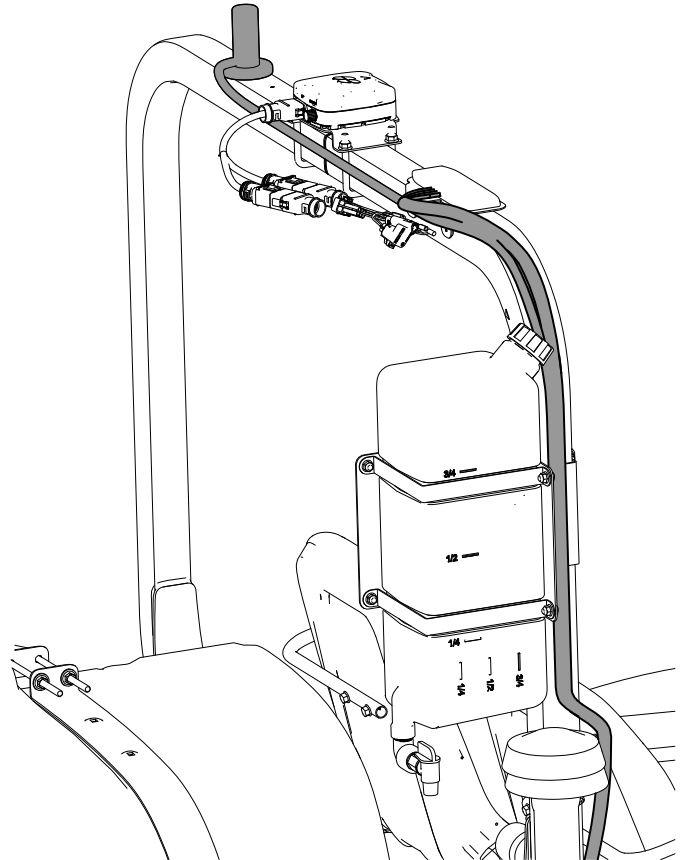


Figure 18

g423316

2. Route the harness down and forward.

6

Installing the Display Bracket (Multi Pro 5800 only)

Parts needed for this procedure:

1	Display bracket
4	Bolt (5/16 x 3/4 inches)
4	Nut (5/16 inch)

- Loosely assemble stiffener plate with the 2 previously removed Phillips panhead screw (1/4 x 1 inch) and flange locknut (1/4 inch).
- Torque the flange-head bolts, Phillips panhead screws, and flange locknut to 1163 to 1435 N·cm (103 to 127 in-lb)

Installing the Ball Pivot Mount Bracket

- Remove the existing display and ball pivot mount.

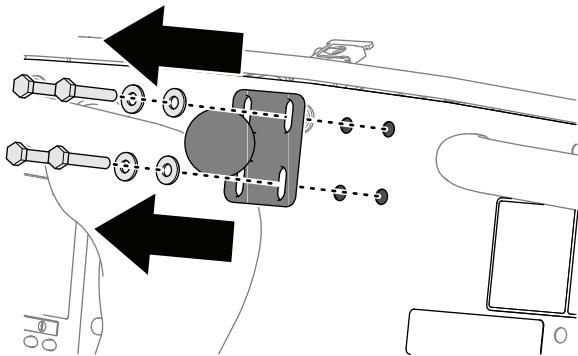


Figure 19

g451259

- Assemble the bracket to the dash with the 4 bolts (5/16 x 3/4 inch) and secure it to the stiffener plate with 4 nuts (5/16 inch).

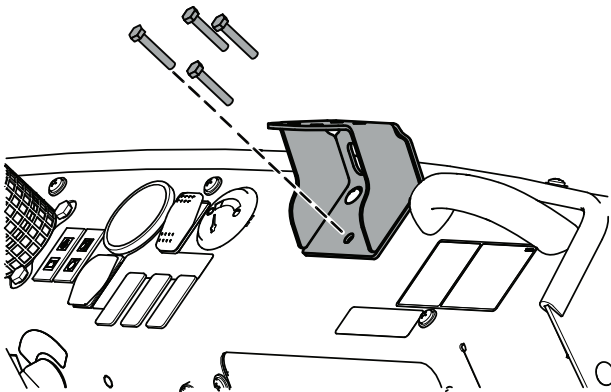


Figure 20

g449955

7

Mounting the Display

Parts needed for this procedure:

1	Display
1	Ball mount
1	Display arm

Procedure

1. Assemble the ball fitting of the display and the ball mount on the machine to the long display arm.

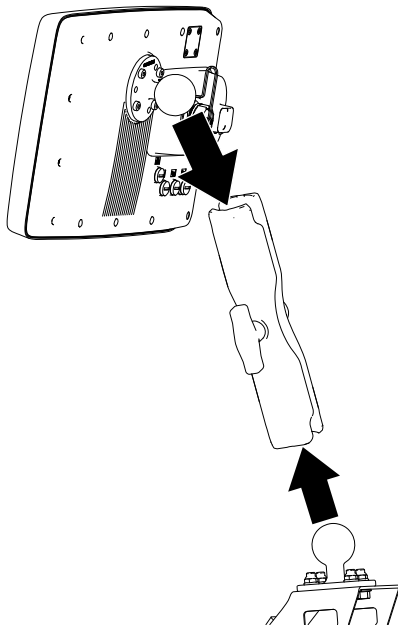


Figure 21

g422949

2. Adjust the display so that it is viewable from the machine operator's position and tighten the display arm knob by hand.

8

Routing the Modem Data Harness

Parts needed for this procedure:

1	Modem data harness—300 cm (118 inches)
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Connecting the Modem Data Harness to the Display

Screw the modem harness connector into the display.

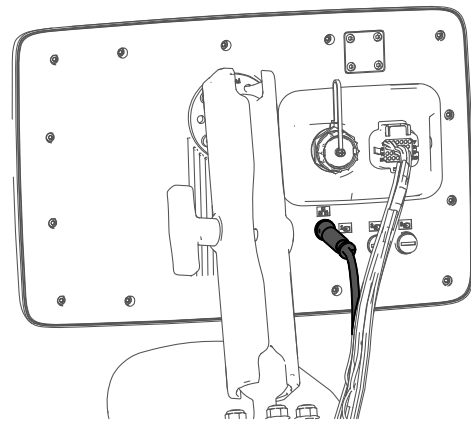


Figure 22

g420566

Routing the Modem Data Cable (Multi Pro 5800)

1. Route the modem data cable through the storage compartment.
2. Route the modem data cable along the wire harness of the machine, and through the grommet in the floor plate.

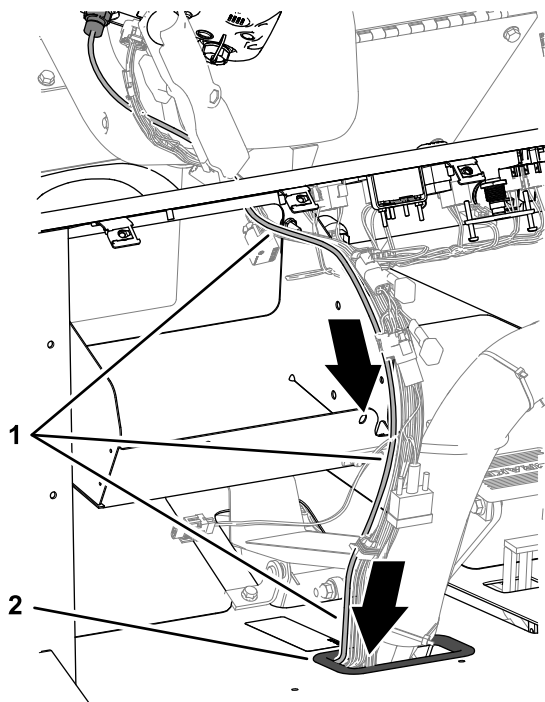


Figure 23

g310208

1. Modem data cable
2. Grommet (floor plate)

3. Secure the modem data cable to the machine wire harnesses with 4 cable ties.
4. At the bottom of the machine, route the modem data cable rearward, along the wire harness of the machine.

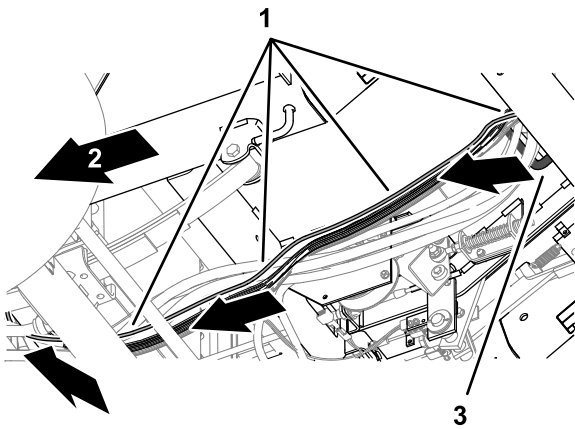


Figure 24

g310209

1. Modem data cable
2. Back of the machine
3. Grommet (floor plate)

5. At the rear side of the radiator, route the modem data cable upward.

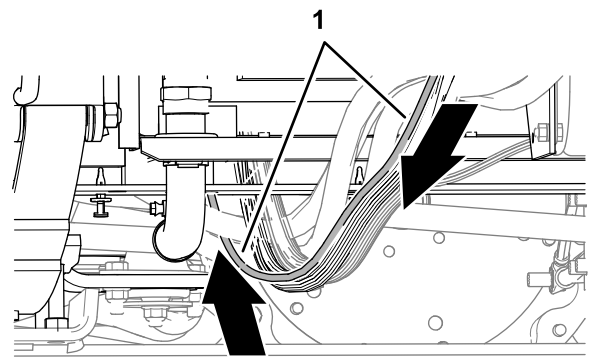
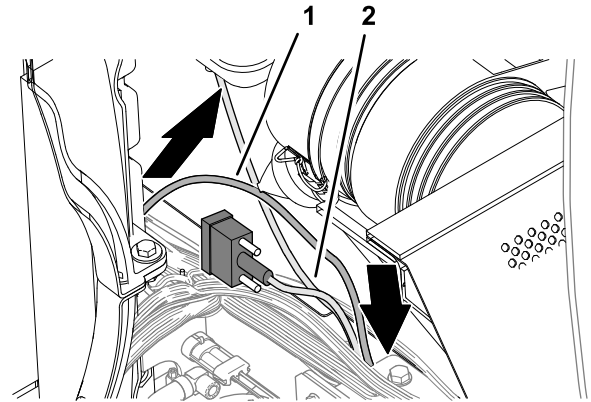


Figure 25

g310210

1. Modem data cable

6. Secure the modem data cable to the machine wire harnesses with 4 cable ties.
7. Route the modem data cable along the modem power harness, out the right side of the machine, and between the fuel tank bracket and the right, front fender.



g310211

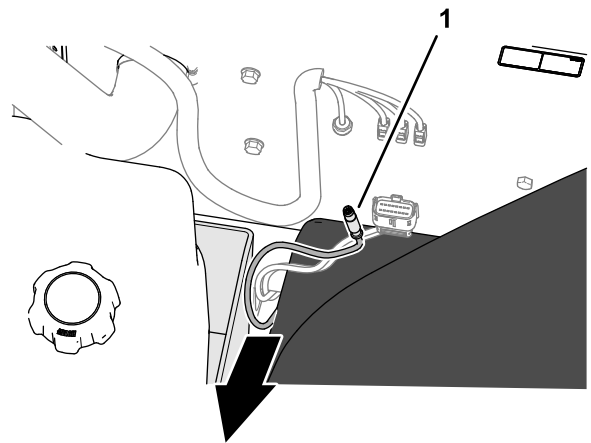


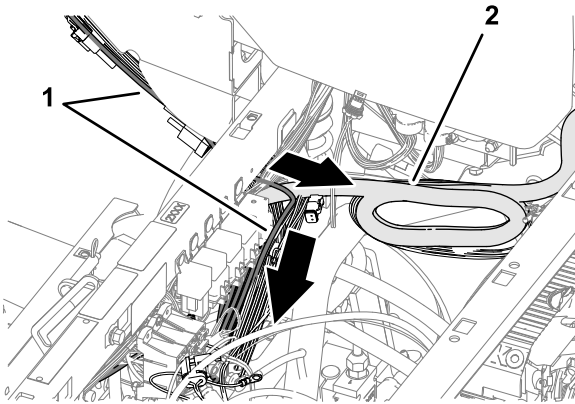
Figure 26

g310212

1. Modem data cable
2. Modem power harness

Routing the Modem Data Cable (Multi Pro 1750)

1. Route the modem data harness along the data harness for the display.
2. Route the modem data harness under the shock-support tube of the machine
3. Route the modem data harness across the back of the relays and down.

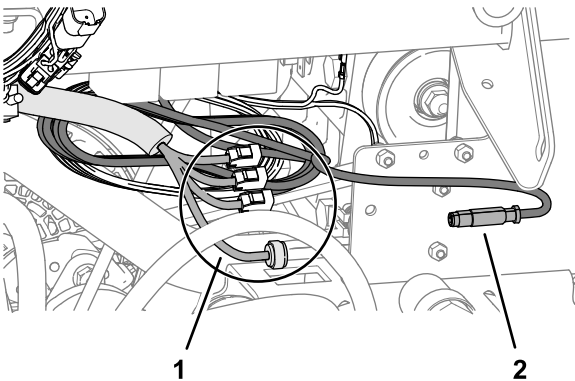


g315307

Figure 27

1. Data harness (control console)
2. Modem data harness

4. Align the 4-pin connector labeled ETHERNET CL-55 of the modem data harness near the 4 connectors for the modem-antenna harness as shown.



g315308

Figure 28

1. Connectors (modem-antenna harness)
2. 4-pin connector (labeled ETHERNET CL-55—modem data harness)

9

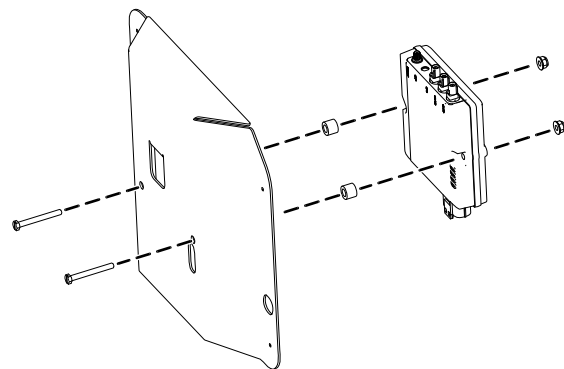
Installing the CL-55 Modem

Parts needed for this procedure:

1	CL-55 modem
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Installing the Modem to the Machine (MultiPro 5800)

1. Secure the modem to the bracket using 2 bolts (#10 x 1-3/4 inch), 2 spacers, and 2 locknuts (#10)



g423318

Figure 29

2. Place the modem bracket to the right seat-box panel over the bolt heads.

Important: Ensure that the wire harnesses are routed within the modem bracket.

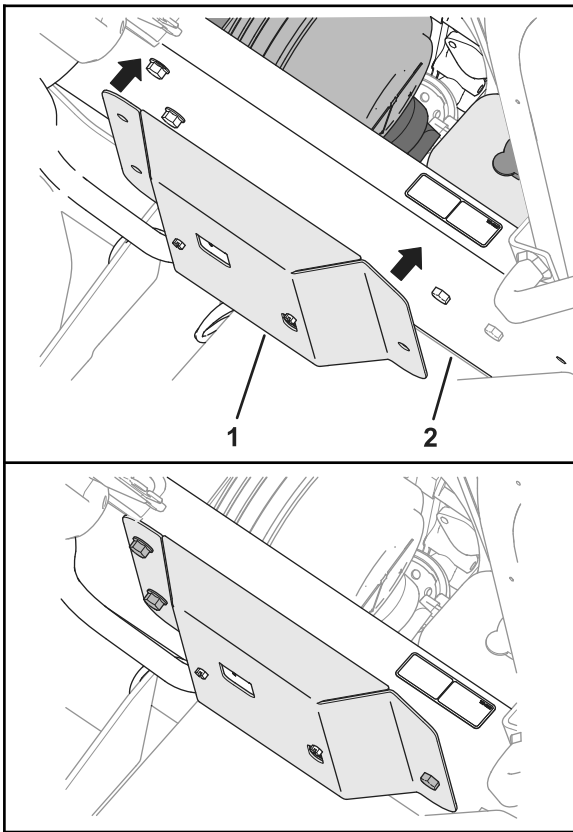


Figure 30

g338608

1. Modem bracket
2. Right seat-box panel

Installing the Modem to the Machine (MultiPro 1750)

1. Remove the push-in fastener that secures the wire harness of the machine to the prop-rod bracket.

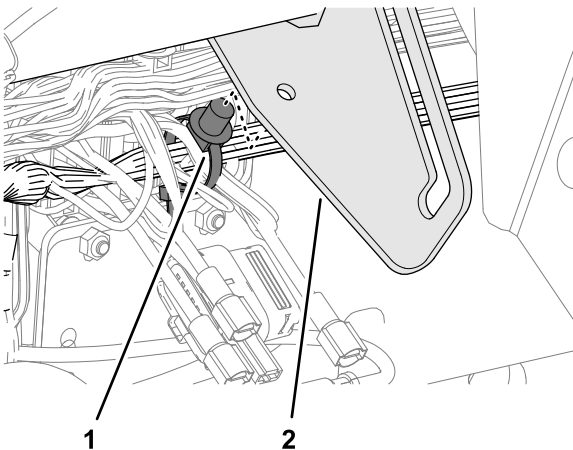


Figure 31

g315555

1. Push-in fastener (machine wire harness)
2. Prop-rod bracket

2. Secure the modem to the bracket using 2 bolts (#10-24 x 1-3/8 inches) and 2 nuts (#10-24).

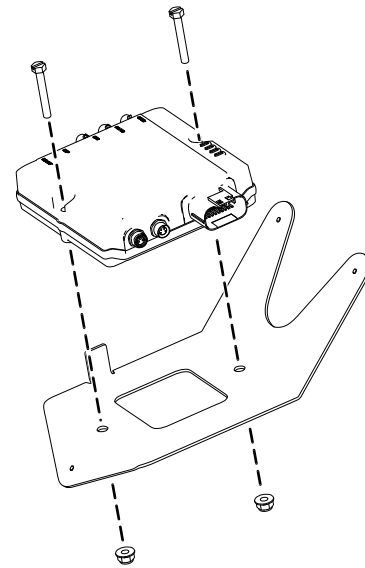


Figure 32

g422629

3. Place the modem bracket under the prop-rod bracket and behind the flange of the machine frame.

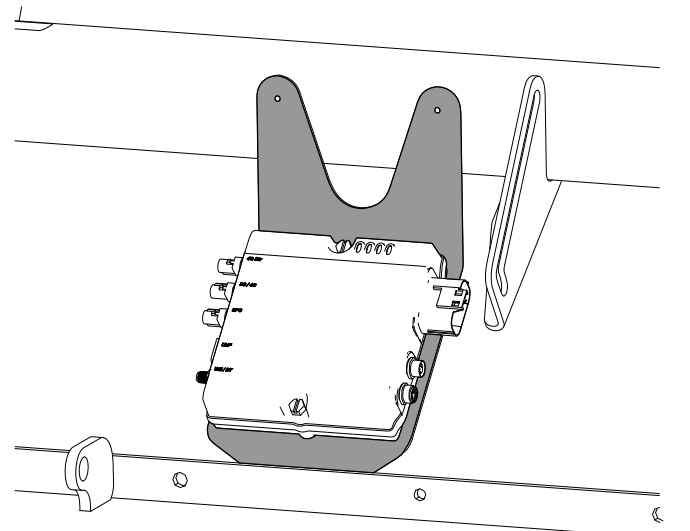
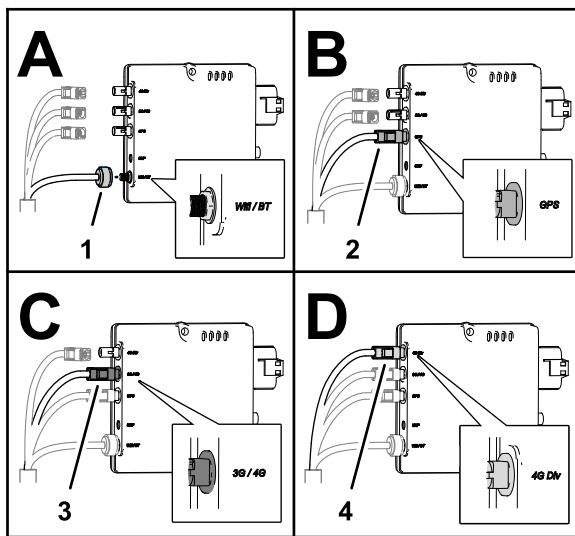


Figure 33

g422628

Connecting the Antenna Harness to the Modem

1. Plug the coaxial connector of the modem-antenna harness labeled WiFi into the coaxial port of the CL-55 modem marked WiFi/BT, and tighten the coaxial connector.

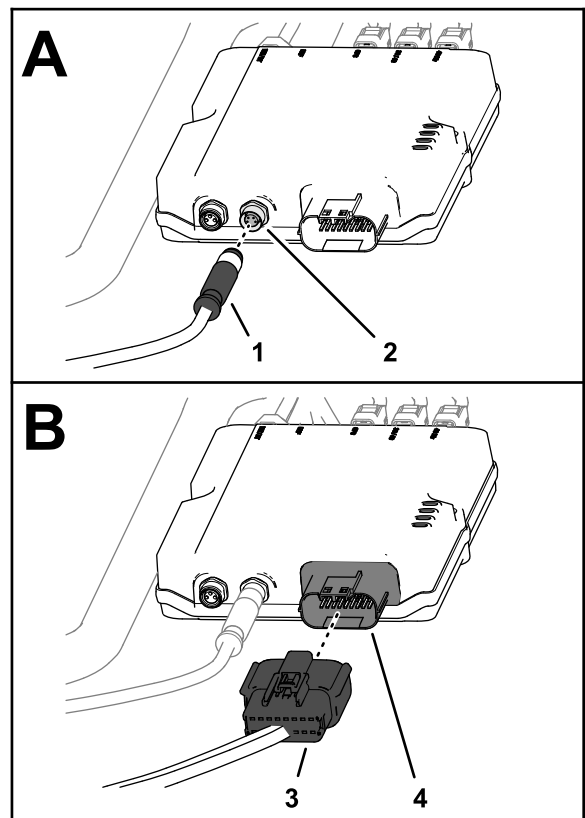


g310538

Figure 34

- | | |
|--|---|
| 1. Coaxial connector (labeled WiFi—modem-antenna harness) | 3. Violet coaxial push-in connector (labeled LTE-1—modem-antenna harness) |
| 2. Blue coaxial push-in connector (labeled GNSS—modem-antenna harness) | 4. Red coaxial push-in connector (labeled LTE-2—modem-antenna harness) |

2. Plug the blue coaxial push-in connector of the modem-antenna harness labeled GNSS into the connector of the CL-55 modem marked GPS, until the connectors latch securely.
3. Plug the violet coaxial push-in connector of the modem-antenna harness labeled LTE-1 into the connector of the CL-55 modem marked 3G / 4G, until the connectors latch securely.
4. Plug the red coaxial push-in connector of the modem-antenna harness labeled LTE-2 into the connector of the CL-55 modem marked 4G DIV, until the connectors latch securely.



g310539

Figure 35

- | | |
|---|---|
| 1. 4-pin connector (labeled ETHERNET CL55—modem data harness) | 3. 18-socket connector (labeled CL55—modem power harness) |
| 2. 4-socket connector (unmarked—CL-55 modem) | 4. 18-pin connector (CL-55 modem) |

2. Plug the 18-socket connector of the modem power harness labeled CL55 into the 18-pin connector of the CL-55 modem.

Connecting the Modem Data and Power Harnesses to the Modem

1. Plug the 4-pin connector of the modem data harness labeled ETHERNET CL55 into the 4-socket connector (unmarked) of the CL-55 modem, and tighten the knurled nut of the 4-pin connector.

10

Powering the GeoLink Components

No Parts Required

Procedure

1. Connect the battery; refer to your machine *Operator's Manual*.
2. Turn the ignition key to the ON position.
3. Verify that the following components indicate that each receives power:
 - Control console—displays graphics and text



Figure 36

g423361

- Satellite receiver—the PWR indicator illuminates

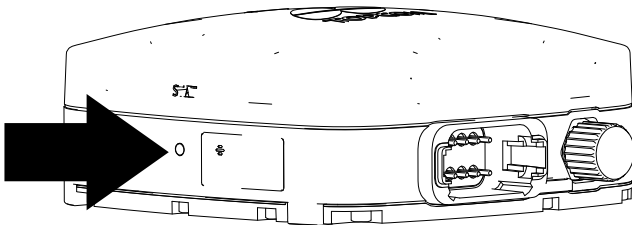


Figure 37

g423320

- Modem—the LED indicators illuminate.

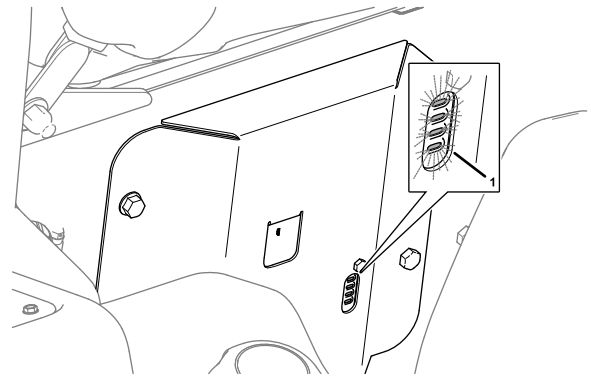


Figure 38

MultiPro 5800

g306264

1. LED Indicators (passenger seat base)

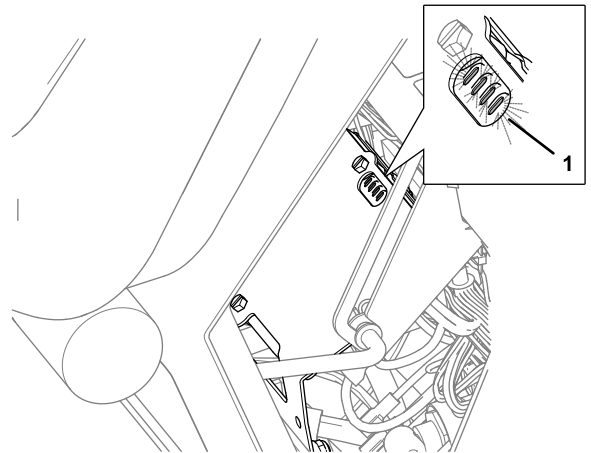


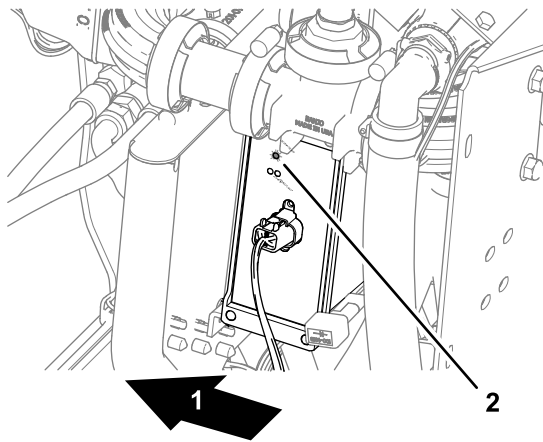
Figure 39

MultiPro 1750

g316148

1. LED Indicators

- Automatic section controller—the STATUS indicator illuminates



g302923

Figure 40

1. Back of the machine
2. STATUS indicator (automatic section controller)

-
4. Turn the ignition key to the OFF position.
 5. Verify that power is shut off at the following components:
 - Control console
 - Satellite receiver
 - Automatic section controller

11

Completing the Software Setup

No Parts Required

Procedure

Refer to the *Software Guide* for version 5.02 and up.



Count on it.