



Flow Divider Kit

Groundsmaster® 4500-D or 4700-D Rotary Mower

Model No. 31529

Installation Instructions

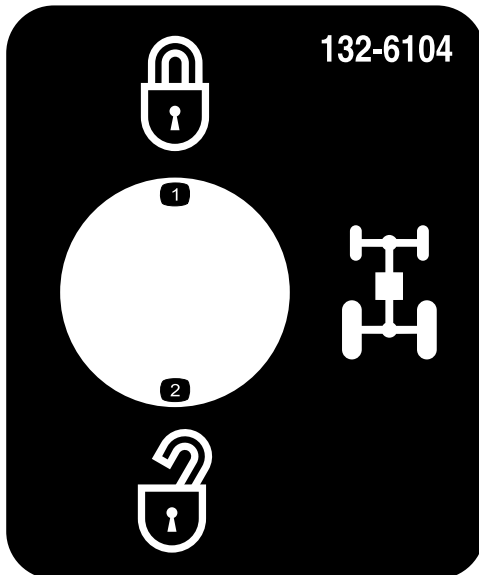
This product complies with all relevant European directives. For details, please see the Declaration of Incorporation (DOI) at the back of this publication.

Safety

Safety and Instructional Decals



Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.

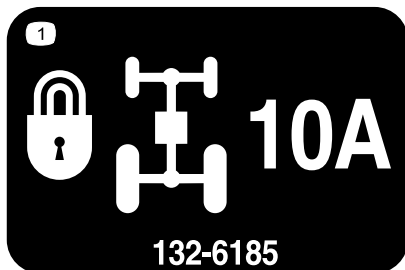


decal132-6104

132-6104

1. 4WD Lock

2. 4WD Unlock



decal132-6185

132-6185

1. 4WD Lock (10 A)



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 the hydraulic lines.
3	Plug Valve Coil (12 V) Coil nut	1 2 2 2	Install the coils on the flow-divider manifold assembly (4WD switch installation only).
4	Flow-divider manifold Pressure hose Manifold tube Traction-motor tube Divider tube Tank hose Bolt Flange nut	1 1 1 1 1 1 2 2	Install the hydraulic components.
5	Fuse (10 A) Fuse decal	1 1	Install the fuse (4WD switch installation only).
6	Toggle switch Switch wire harness 4WD function decal Relay wire harness Relay Self-tapping screw	1 1 1 1 1 1	Install the switch.
7	Solenoid wire harness	1	Install the wire harness to the machine (4WD switch installation only).
8	No parts required	–	Completing the installation.

Important: This kit is only intended for use with Groundsmaster Models 30885, 30887, 30893, 30893TE, 30899, and 30899TE serial numbers 40000000 and up.

Note: The procedures for installing this kit require that you work from under the machine.

1

Preparing the Machine

No Parts Required

Procedure

Note: You can use a hoist for better access under the machine.

Important: Cap or plug any disconnected hydraulic hoses, tubes, or component ports to prevent contaminating the system.

1. Park on a level surface, engage the parking brake, ensure that the traction pedal is in the neutral position.
2. Ensure that the PTO button is in the OFF position.
3. Shut off the engine, remove the key, and allow the machine to cool.

⚠ CAUTION

If you leave the key in the ignition switch, someone could accidentally start the engine and seriously injure you or bystanders.

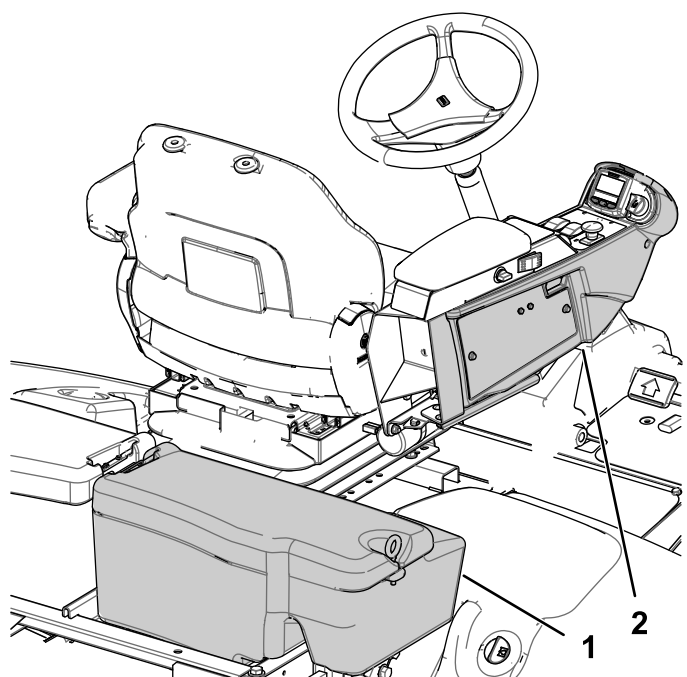
Remove the key from the switch before you do any maintenance.

4. Bleed the pressure from the hydraulic system by turning the hydraulic pump bypass valve; refer to the instructions for pushing or towing the machine in the *Operator's Manual*.
5. If you are not installing the 4WD switch, skip to [2 Removing the Hydraulic Lines \(page 4\)](#). If you are installing the 4WD switch, continue this procedure.
6. Open the right toolbox cover and disconnect the negative cable from the battery post; refer to the *Operator's Manual* for your machine.

⚠ 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.
7. Disconnect the positive battery cable from the battery; refer to the *Operator's Manual* for your machine.
 8. Remove the right console cover as shown in [Figure 1](#).



g204998

Figure 1

1. Right toolbox cover
2. Right console cover

2

Removing the Hydraulic Lines

No Parts Required

Removing the Pressure Hose

1. Align a drain pan below the forward end of the pressure hose (Figure 2).

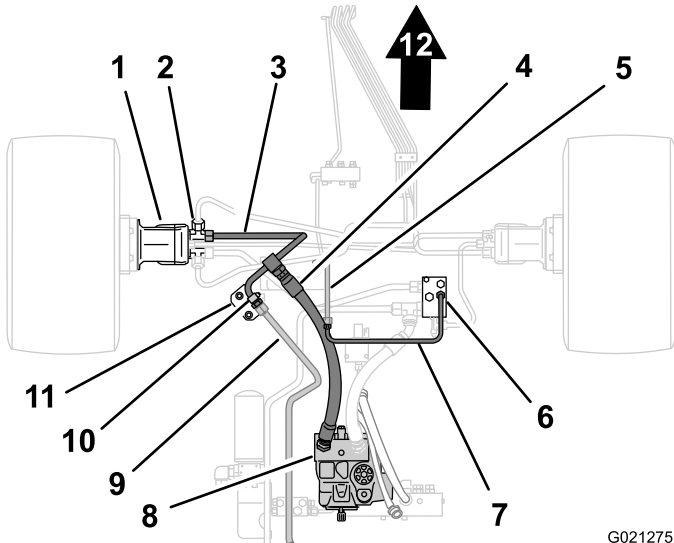


Figure 2

Bottom View Shown

- | | |
|---------------------------|--|
| 1. Traction motor | 7. Cross tube (rear-traction manifold) |
| 2. T-fitting | 8. Hydraulic pump |
| 3. Divider tube | 9. Rear-traction tube |
| 4. Pressure hose | 10. Clamp |
| 5. Hydraulic-filter tube | 11. Tube bracket |
| 6. Rear-traction manifold | 12. Forward |

2. Remove the forward end of the pressure hose from the fitting in the divider tube, and allow the hydraulic fluid to drain from the hose and tube (Figure 2).

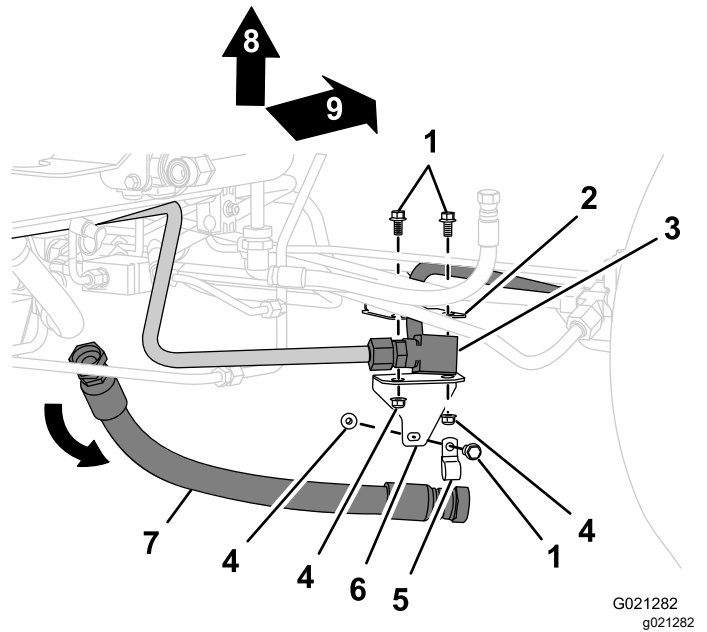


Figure 3

Side View Shown

- | | |
|--------------------|------------------|
| 1. Bolts | 6. Tube bracket |
| 2. Chassis bracket | 7. Pressure hose |
| 3. Divider tube | 8. Up |
| 4. Nut | 9. Forward |
| 5. Clamp | |

3. Remove the rear end of the pressure hose from the fitting in the hydraulic pump, and remove the pressure hose (Figure 2 and Figure 3).
4. Temporarily cap the pump and the divider tube.

Note: Discard the original pressure hose.

Removing the Cross Tube

1. Align the drain pan below the rear-traction manifold.
2. Remove the tube nut for the cross tube from the fitting in the rear-traction manifold (Figure 2).
3. Remove the tube nut for the filter tube from the fitting in the cross tube, and remove the cross tube (Figure 2).

Important: Retain the filter tube for installation in [Installing the Filter Tube and the Divider Tube \(page 9\)](#).

Note: Discard the cross tube.

4. Temporarily cap the fitting in the rear-traction manifold.

Removing the Tube Bracket and Clamp

1. Remove the bolt and the nut that secure the divider tube to the tube bracket, and remove the clamp (Figure 3).
2. Remove the 2 bolts and the 2 nuts that secure the tube bracket to the chassis bracket (Figure 3).

Note: Discard the tube bracket, clamp, and hardware.

Removing the Divider Tube

1. Remove the tube nut for the rear-traction tube from the fitting of the divider tube.
2. Remove the tube nut of the divider tube from the T-fitting in the front-left traction motor, and remove the tube from the machine (Figure 2).

Note: Discard the divider tube.

3. If you are installing the 4WD switch, continue this procedure. If you are not installing the 4WD switch, skip to [4 Installing the Hydraulic Components](#) (page 7).

Removing the Tank Hose

Important: This procedure is necessary if you install the 4WD switch.

1. Align a drain pan below the forward, straight end of the tank hose.
2. Remove the forward end of the tank hose from the fitting in the hydraulic fluid tank, cap the fitting on the tank, and allow the hydraulic fluid to drain from the hose.

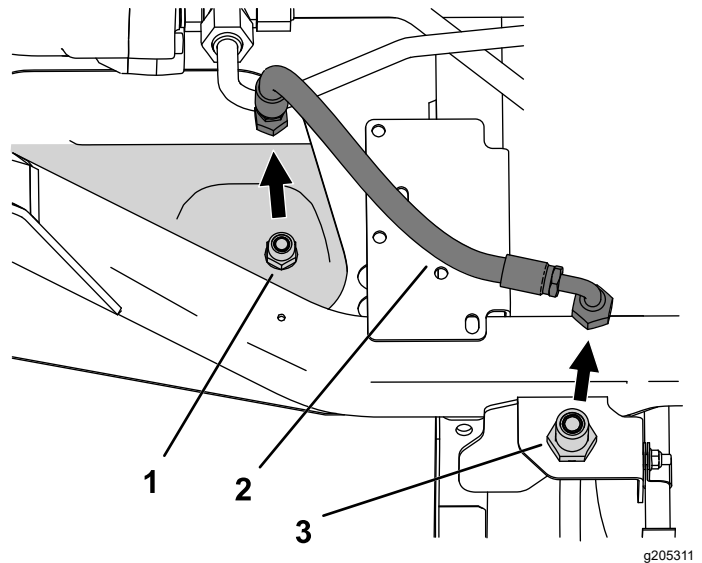


Figure 4
Bottom View

- | | |
|---------------------------|---------------------|
| 1. Hydraulic-tank fitting | 3. Bulkhead fitting |
| 2. Tank hose | |

3. Remove the rear, angled end of the tank hose from the bulkhead fitting and remove the tank hose.
4. Temporarily cap the bulkhead fitting.

Note: Discard the original tank hose.

3

Installing the Coils on the Flow-Divider Manifold Assembly

4WD Switch Only

Parts needed for this procedure:

1	Plug
2	Valve
2	Coil (12 V)
2	Coil nut

Procedure

Important: The manifold comes pre-assembled for use without the switch; this procedure is necessary if you install the 4WD switch.

1. Remove the 2 existing valves from the CV1 and CV2 ports of the manifold.
2. Install the appropriate parts to the flow-divider manifold as shown in [Figure 5](#).

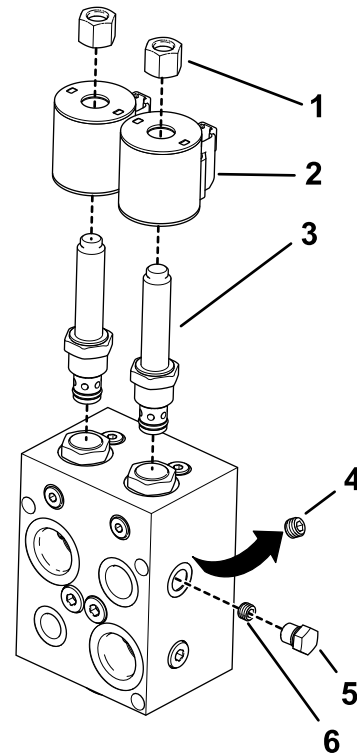


Figure 5

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- | | |
|----------------|-------------------------------|
| 1. Coil nut | 4. Existing orifice (removed) |
| 2. Coil (12 V) | 5. Plug |
| 3. Valve | 6. New orifice |

3. Torque the coil nuts to 6.8 to 9.5 N·m (5 to 7 ft-lb).
4. Torque the valves to 34 N·m (25 ft-lb).
5. Install the plug over the new orifice.

Note: You may discard the removed orifice and valves.

4

Installing the Hydraulic Components

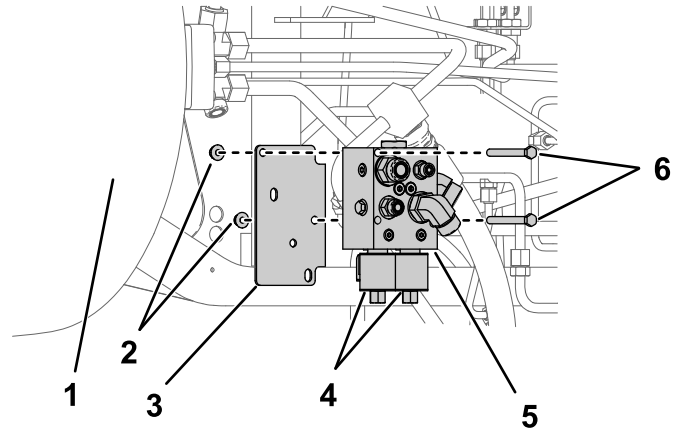
Parts needed for this procedure:

1	Flow-divider manifold
1	Pressure hose
1	Manifold tube
1	Traction-motor tube
1	Divider tube
1	Tank hose
2	Bolt
2	Flange nut

Installing the Flow-Divider Manifold

1. Align the holes in the flow-divider manifold with the holes in the chassis bracket.

Note: Ensure that the 45-degree fitting is pointing down and toward the back of the machine.



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Figure 6
Bottom View Shown

- | | |
|----------------------|---|
| 1. Front, right tire | 4. Coils (for use with 4WD switch only) |
| 2. Flange nuts | 5. Flow-divider manifold |
| 3. Chassis bracket | 6. Bolts |

2. Secure the flow-divider manifold to the chassis bracket with the 2 bolts and 2 flange nuts. Tighten the bolts to 37 to 45 N·m (27 to 33 ft-lb).

Installing the Rear-Traction Tube and the Pressure Hose

1. Align the forward tube nut for the rear-traction tube with the elbow fitting in the flow-divider manifold ([Figure 7](#) and [Figure 8](#)).

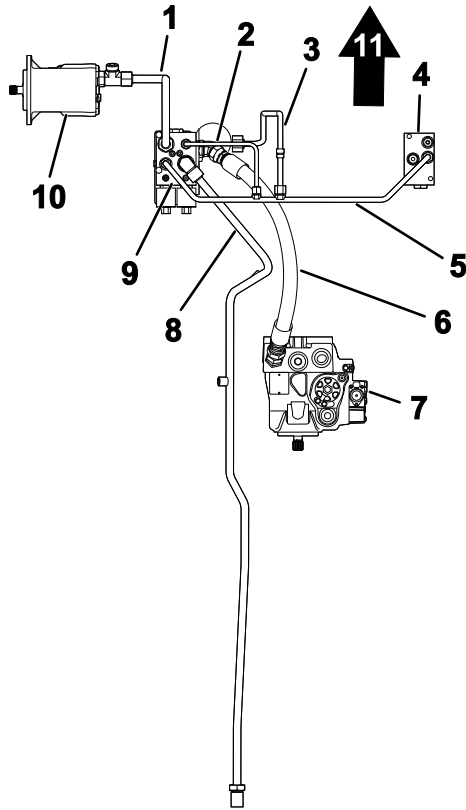


Figure 7

- | | |
|---------------------------|--------------------------|
| 1. Traction-motor tube | 7. Hydraulic pump |
| 2. Divider tube | 8. Rear-traction tube |
| 3. Hydraulic-filter tube | 9. Flow-divider manifold |
| 4. Rear-traction manifold | 10. Traction motor |
| 5. Cross-manifold tube | 11. Forward |
| 6. Pressure hose | |

2. Thread the forward tube nut onto the elbow, and tighten the nut to 51 to 63 N·m (37 to 47 ft-lb).

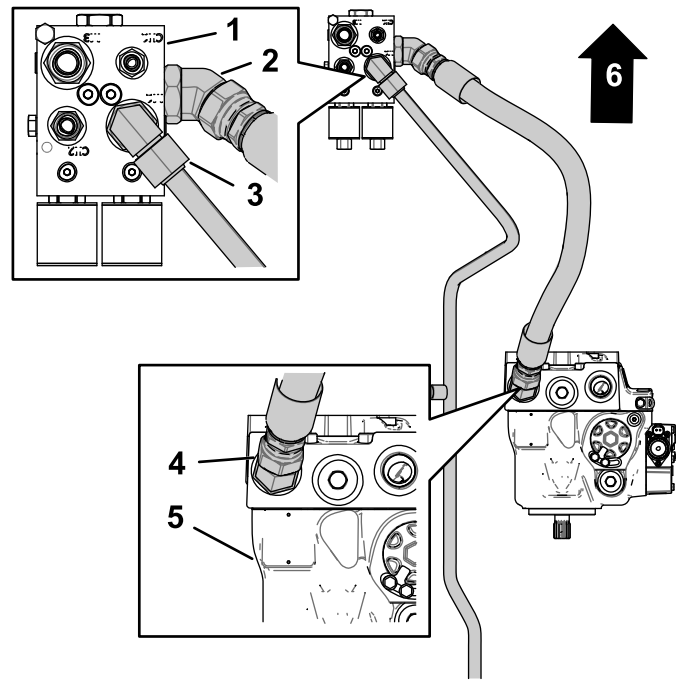


Figure 8

- | | |
|---|---------------------------------|
| 1. Flow-divider manifold | 4. Pressure hose (pump fitting) |
| 2. Pressure hose (divider fitting) | 5. Hydraulic pump |
| 3. Rear-traction tube (forward fitting) | 6. Forward |

3. Remove the temporary cap from the hydraulic pump.
4. Thread one straight end of the pressure hose into the fitting in the hydraulic pump ([Figure 8](#)).
5. Remove the temporary cap from the flow-divider manifold.
6. Thread the other straight end of the pressure hose into the fitting in the side of the flow-divider manifold ([Figure 8](#)).
7. Tighten the hose fittings to 150 to 184 N·m (110 to 136 ft-lb).

Installing the Cross Tube

1. Remove the cap on the fitting of the rear-traction manifold that you previously installed.
2. Align the tube nuts for the cross-manifold tube to the fittings in the rear-traction manifold and the flow-divider manifold ([Figure 9](#)).

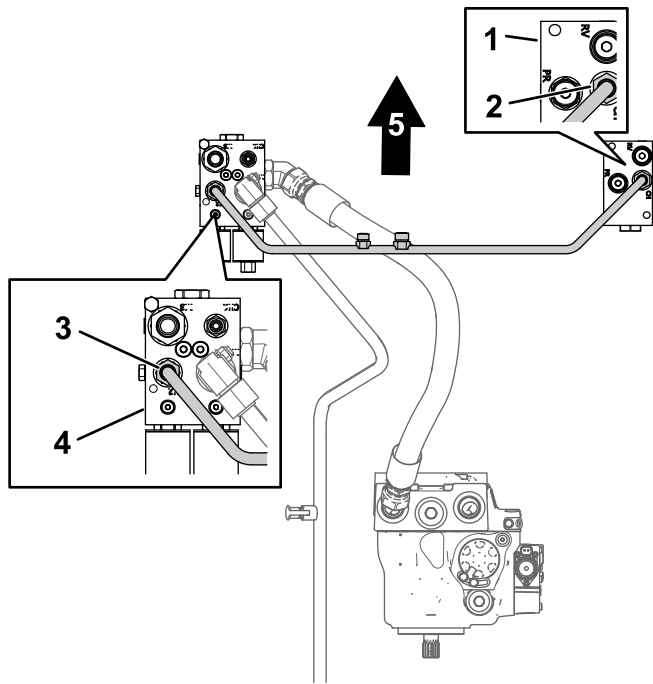


Figure 9

- | | |
|---|--------------------------|
| 1. Rear-traction manifold | 4. Flow-divider manifold |
| 2. Cross-manifold tube (rear-traction manifold fitting) | 5. Forward |
| 3. Cross-manifold tube (divider fitting) | |
-
3. Thread the tube nuts onto the fittings in the flow-divider manifold and the rear-traction manifold, and tighten the nuts to 51 to 63 N·m (37 to 47 ft-lb).

Installing the Filter Tube and the Divider Tube

1. Prepare the hydraulic-filter tube retained from [Removing the Cross Tube \(page 4\)](#). Align the tube nut for the hydraulic-filter tube to the fitting in the cross-manifold tube as shown in [Figure 10](#).

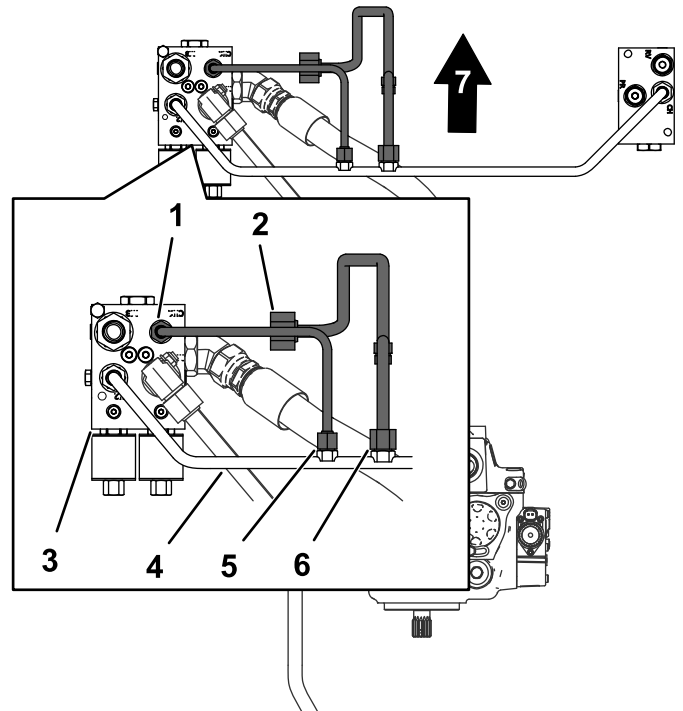


Figure 10

- | | |
|--|--|
| 1. Divider tube (flow-divider fitting) | 5. Divider tube (cross-manifold tube fitting) |
| 2. Hydraulic-filter tube (filter base fitting) | 6. Hydraulic-filter tube (cross-manifold tube fitting) |
| 3. Flow-divider manifold | 7. Forward |
| 4. Cross-manifold tube | |
-
2. Thread the tube nut for the hydraulic-filter tube onto the fitting in the cross-manifold tube, and tighten the nut to 51 to 63 N·m (37 to 47 ft-lb).
 3. Align the tube nuts for the divider tube to the fittings in the cross-manifold tube and the flow-divider manifold ([Figure 10](#)).
 4. Thread the tube nuts for the divider tube onto the fittings in the cross-manifold tube and the flow-divider manifold, and tighten the nuts to 37 to 45 N·m (27 to 33 ft-lb).

Installing the Traction-Motor Tube

1. Align the tube nuts for the traction-motor tube to the fittings in the traction motor and the flow-divider manifold (Figure 11).

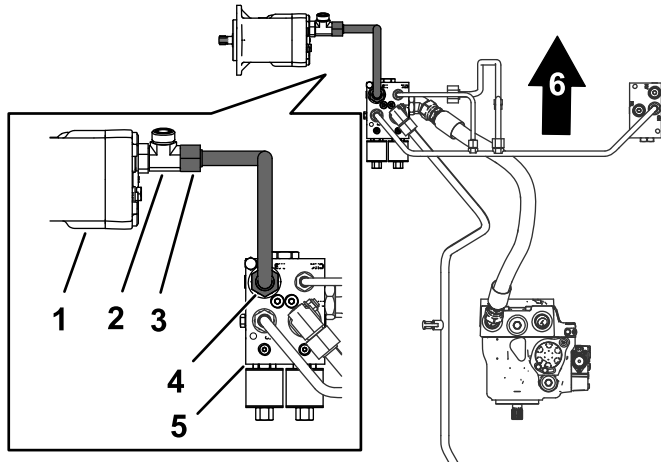


Figure 11

- | | |
|---|---|
| 1. Traction motor | 4. Traction-motor tube (flow-divider fitting) |
| 2. T-fitting | 5. Flow-divider manifold |
| 3. Traction-motor tube (traction-motor fitting) | 6. Forward |

2. Thread the tube nuts for the traction-motor tube onto the fittings in the traction motor and the flow-divider manifold, and tighten the nuts to 116 to 142 N·m (85 to 105 ft-lb).

Installing the Tank Hose

Important: This procedure is necessary if you install the 4WD switch.

1. Remove the temporary cap from the bulkhead fitting and thread the angled end of the tank hose onto the bulkhead fitting.

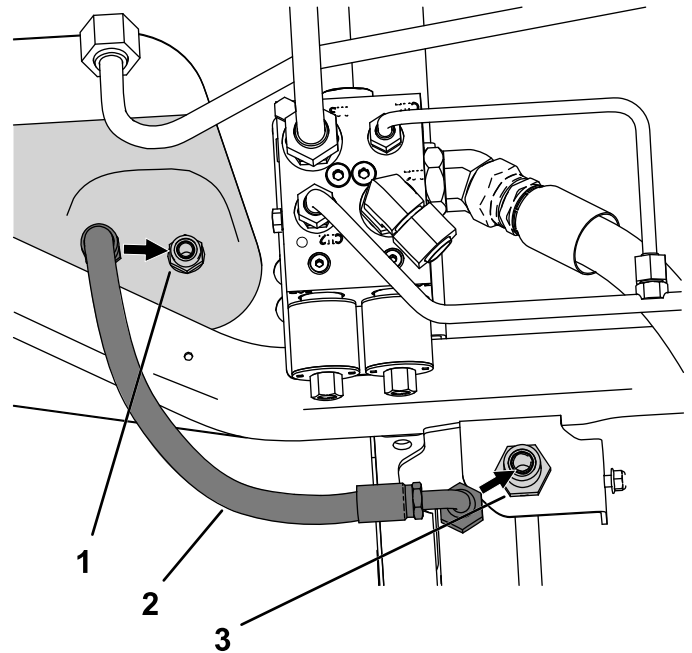


Figure 12
Bottom View

- | | |
|---------------------------|---------------------|
| 1. Hydraulic tank fitting | 3. Bulkhead fitting |
| 2. Tank hose | |

Note: Ensure clearance for the coils by facing the angled end and hose out toward the right side of the machine, perpendicular to the frame.

2. Remove the temporary cap from the fitting on the hydraulic fluid tank, and thread the straight end of the tank hose onto the fitting.
3. Tighten the forward, straight end attached to the tank to 50 to 64 N·m (37 to 47 ft-lb).
4. Tighten the angled end attached to the bulkhead to 81 to 100 N·m (60 to 74 ft-lb).

5

Installing the Fuse

4WD Switch Only

Parts needed for this procedure:

1	Fuse (10 A)
1	Fuse decal

Procedure

Important: This procedure is necessary if you install the 4WD switch.

1. If you have an older machine install the fuse into the C4 slot in the fuse box (Figure 13).

Note: If another fuse is already occupying the C4 slot, or you have a newer model machine, place the fuse in any open auxiliary slot.

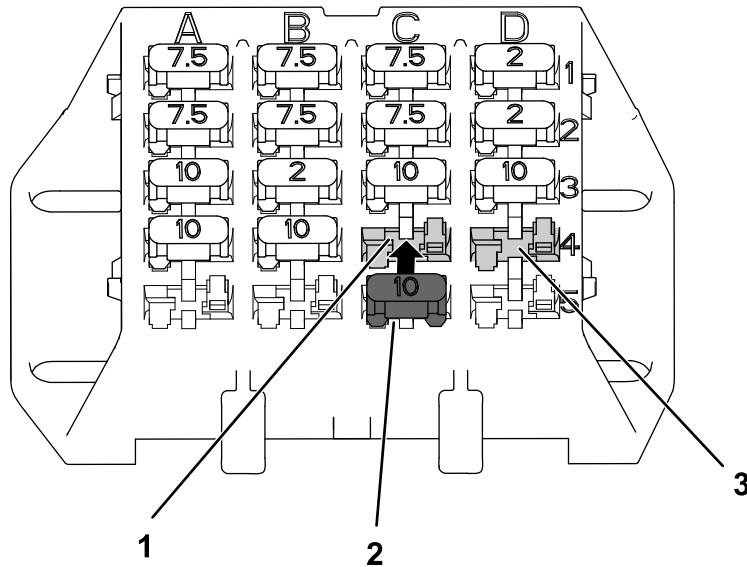


Figure 13

1. C4 Slot
2. Fuse
3. Auxiliary slot

Important: Note which fuse slot corresponds to which auxiliary power wire. If the switch is connected to a wire without a fuse, it will not function.

2. Place the fuse decal in the corresponding panel of the fuse map decal located under the toolbox cover.

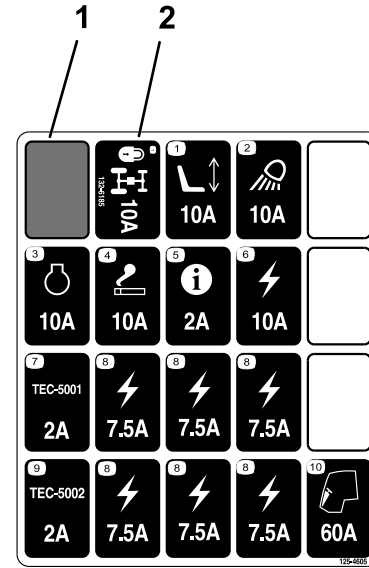


Figure 14

Fuse decal in C4 slot, previous model machines

1. C5 Auxiliary slot
2. C4 Auxiliary slot with decal

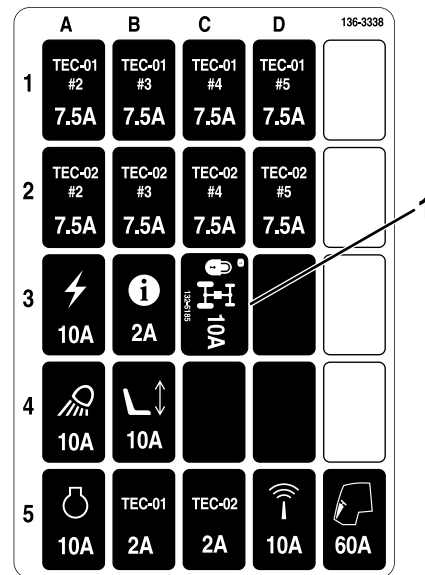


Figure 15

Fuse decal in C3 slot, new model machines

1. C3 Auxiliary slot

6

Installing the Switch

Parts needed for this procedure:

1	Toggle switch
1	Switch wire harness
1	4WD function decal
1	Relay wire harness
1	Relay
1	Self-tapping screw

Procedure

1. Drill a 13 mm (1/2 inch) hole in the center console; refer to [Figure 16](#) for the appropriate orientation.

Important: Use caution to not contact any components or wires underneath the console with the drill bit.

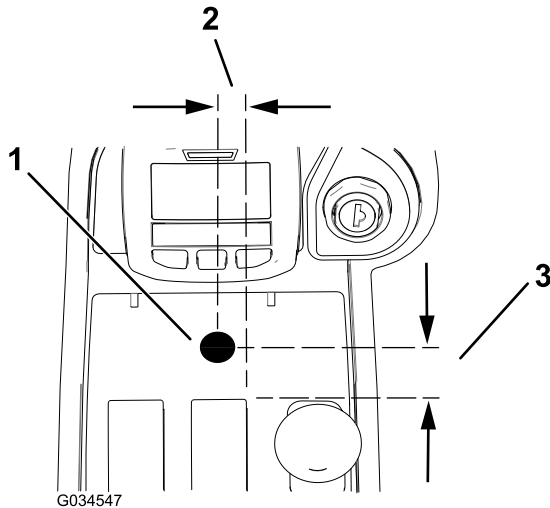


Figure 16

1. 13 mm (1/2 inch) diameter
2. 13 mm (1/2 inch) from the center of hole to the right edge of the high-low speed control switch
3. 25 mm (1 inch)

2. Place the 4WD function decal over the drilled hole ([Figure 17](#)).

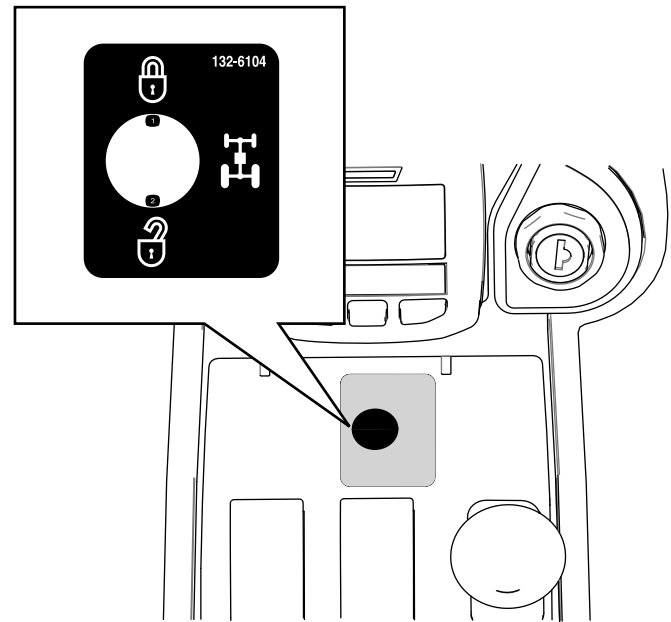


Figure 17

3. Identify the switch terminal locations, wire harness labels, and wire harness colors ([Figure 18](#)).

The switch terminals are identified by the numbers imprinted into the bottom of the switch.

Note: The switch is spring-loaded to the rear of the switch ([Figure 19](#)). The switch is normally open between terminals 1 and 2 ([Figure 18](#)).

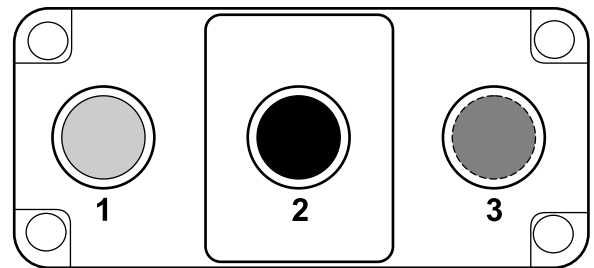


Figure 18

Installed switch orientation

1. Terminal 1—rear
2. Terminal 2—center
3. Terminal 3—front

4. Secure the red wire labeled BYPASS ENGAGE SWITCH 2 on the switch wire harness to the override switch center terminal number 2 (Figure 18 and Figure 19).
5. Secure the gray wire labeled BYPASS ENGAGE SWITCH 1 on the switch wire harness to the override switch rear terminal number 1 (Figure 18 and Figure 19).

Important: Incorrect switch wiring can result in damage to the hydraulic system. Verify that the wiring is installed correctly; refer to [Testing the Four-Wheel Drive \(page 16\)](#).

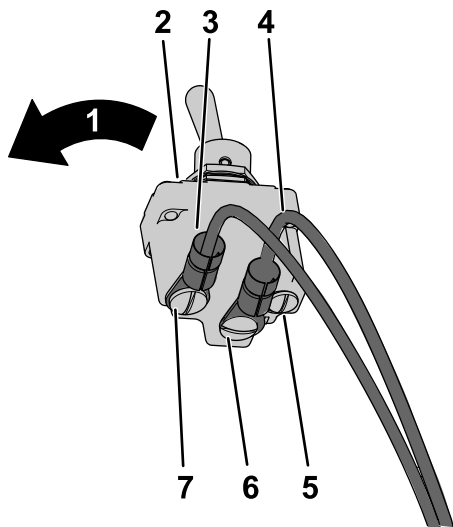
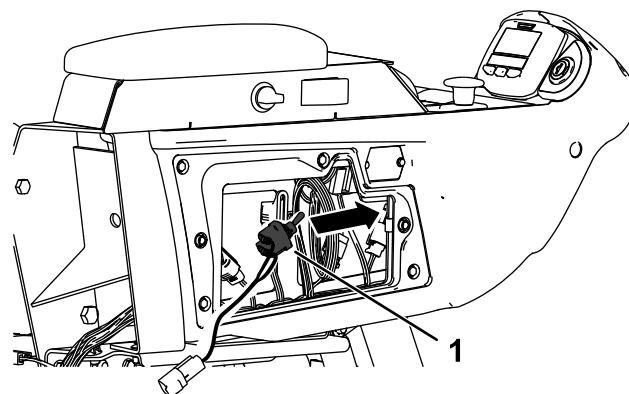


Figure 19

- | | |
|--|---------------------------------|
| 1. Spring-loaded to the rear of the switch | 5. Front terminal of the switch |
| 2. Toggle switch | 6. Center terminal |
| 3. Gray wire | 7. Rear terminal |
| 4. Red wire | |

6. Remove the 2 screws securing the side panel to the console and route the toggle switch with the connected wire harness into the center console (Figure 20).

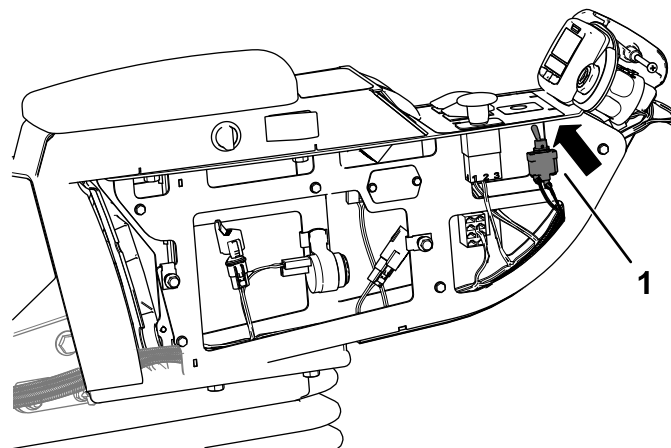


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Figure 20

1. Route the toggle switch to the drilled hole in the center console.

7. Pull the toggle switch and wire harness through the center console up to the drilled hole (Figure 21).



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Figure 21

Some parts not shown for clarity.

1. Install the toggle switch to the drilled hole in the center console.

8. Install the toggle switch into the 13 mm (1/2 inch) hole from the bottom of the console; refer to [Figure 22](#) for the correct hex locknut and washer orientation.

Note: Install the switch spring-loaded toward the rear of the machine.
Discard the tabbed washer included with the toggle switch.

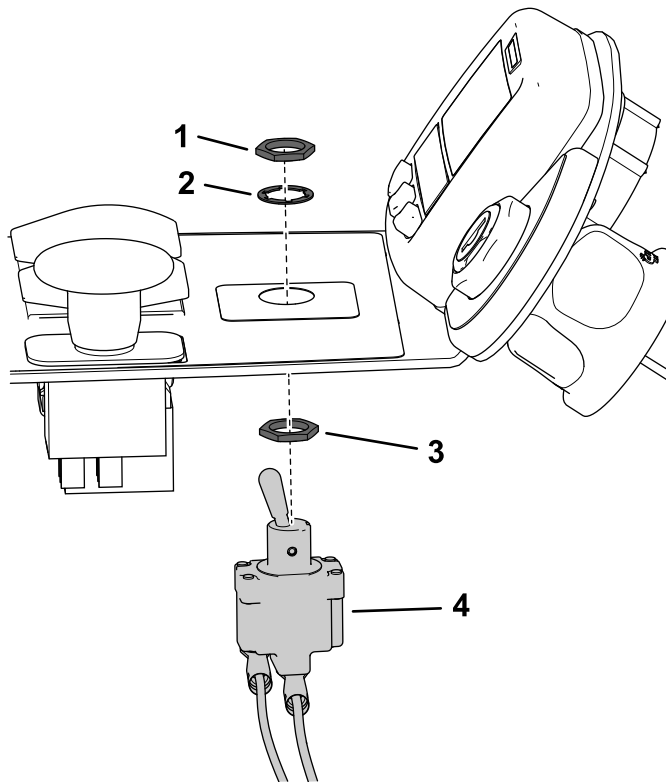


Figure 22

- | | |
|------------------------|------------------|
| 1. Hex locknut | 3. Hex locknut |
| 2. Washer (15/32 inch) | 4. Toggle switch |

9. Connect the toggle switch to the machine wire harness as shown in [Figure 23](#).

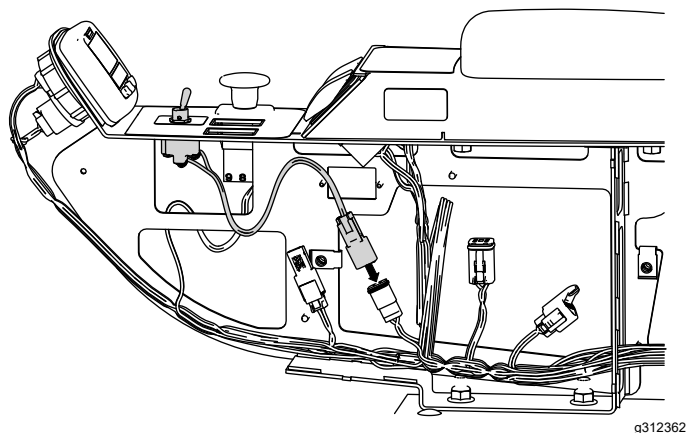


Figure 23

Some parts not shown for clarity.

10. Connect the relay and relay harness to the machine wire harness as shown in [Figure 24](#).

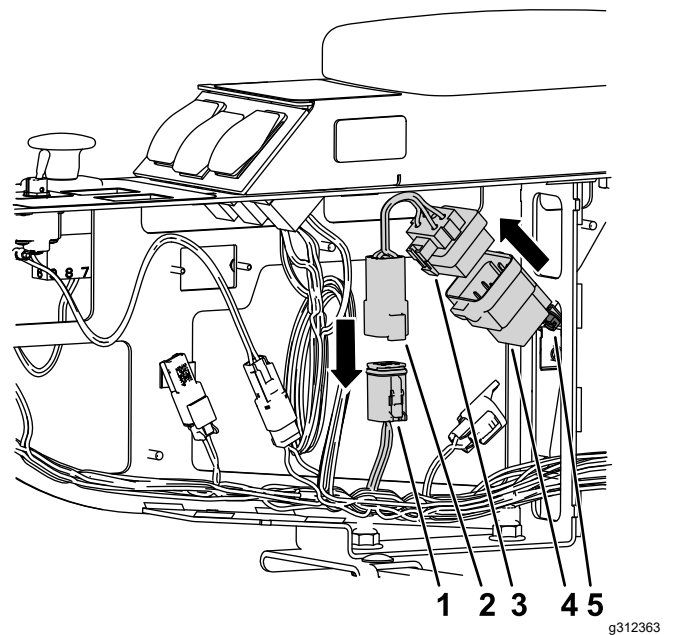


Figure 24

- | | |
|---|---------------------------------------|
| 1. Machine wire harness relay connector | 4. Relay |
| 2. Relay wire harness | 5. Self-tapping screw and relay mount |
| 3. Relay connector | |

11. Connect the relay to the console frame using the provided self-tapping screw.

7

Installing the Solenoid Wire Harness to the Machine

4WD Switch Only

Parts needed for this procedure:

1	Solenoid wire harness
---	-----------------------

Procedure

Important: This procedure is necessary if you install the 4WD switch.

1. Unlatch the seat; refer to the *Operator's Manual* for your machine.
2. Connect the free connector on the solenoid wire harness to the machine wire harness connector beneath the seat (Figure 25).

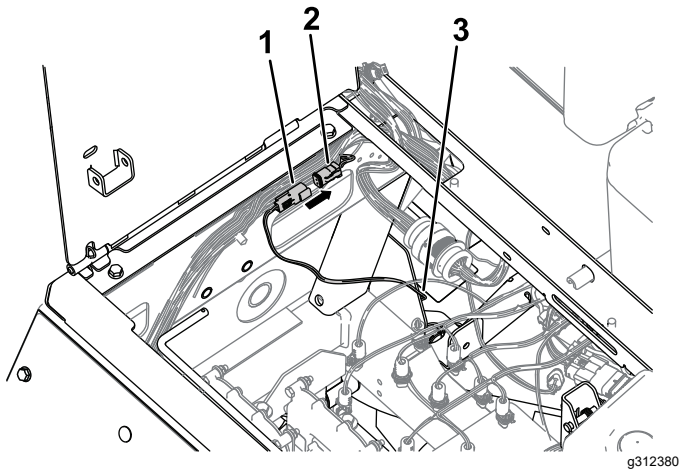


Figure 25

1. Solenoid wire harness connector
2. Machine wire harness connector
3. Route the solenoid connectors under the frame toward the flow-divider manifold.

3. Route the remaining loose harness ends down around the lower frame and connect them to 2 coils on the flow-divider manifold just inside of the right, front tire (Figure 26).

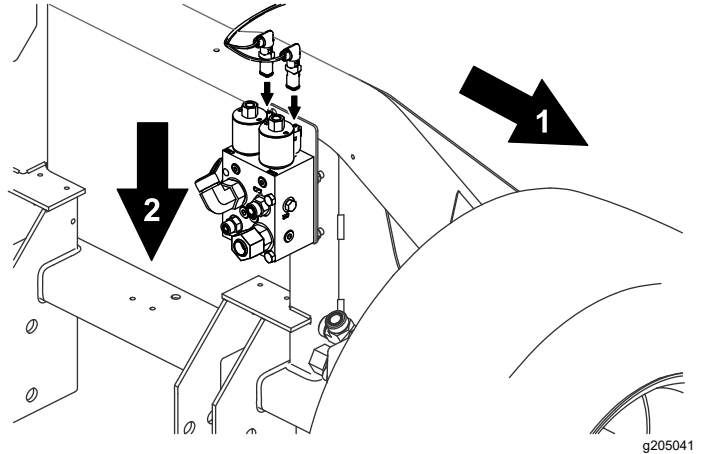


Figure 26
Bottom View

1. Right of machine
2. Front of machine

4. Latch the seat; refer to the *Operator's Manual* for your machine.

8

Completing the Installation

No Parts Required

Completing the Installation (4WD Switch Only)

1. Connect the positive battery cable to the positive post of the battery; refer to the *Operator's Manual* for your machine.

⚠ 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.
2. Connect the negative battery cable to the negative post of the battery; refer to the *Operator's Manual* for your machine.
 3. Close the right toolbox cover and install the right console cover (Figure 1).

Checking for Hydraulic Leaks

⚠ WARNING

Hydraulic fluid escaping under pressure can penetrate skin and cause injury.

- Make sure that all hydraulic fluid hoses and lines are in good condition and all hydraulic connections and fittings are tight before applying pressure to the hydraulic system.
- Keep your body and hands away from pin hole leaks or nozzles that eject high-pressure hydraulic fluid.
- Use cardboard or paper to find hydraulic leaks.
- Safely relieve all pressure in the hydraulic system before performing any work on the hydraulic system.
- Get immediate medical help if fluid is injected into the skin.

1. Check and tighten all fittings and hydraulic connections.
2. Ensure that the hydraulic pump bypass valve is in the operation position; refer to the pushing or towing the machine instructions in the *Operator's Manual*.
3. Check the hydraulic-fluid level and replenish it as required; refer to the *Operator's Manual* for your machine.
4. Start the machine and allow the hydraulic system to pressurize.
5. Shut off the engine and check the hydraulic tubes, hoses, and fittings for leaks.

Note: Repair all leaks before operating the machine.

Important: This completes the installation.

Testing the Four-Wheel Drive

1. Place the key into the switch, turn the key to the ON position, and disengage the parking brake.
2. Drive the machine forward and press the 4WD toggle switch forward.

Note: You should hear the solenoids shift if the kit is installed properly. If you do not, check the wire harness connections and fuse placement.

3. Make a tight turn with the switch pressed forward.

Note: You should feel the 4WD if the kit is installed properly. If you do not, check the wire harness connections and fuse placement.

Operation

Operating Tips

The flow divider kit splits the traction flow between the front and rear wheels. This will require both a front and a rear tire to spin before the machine loses traction.

Use the following information to best operate the machine with the flow divider kit installed:

- The flow divider kit is for use in the low-speed range only. The system does not allow it to operate in the high-speed range.
- If both a front wheel and a rear wheel spin, it may be helpful to use the steering brakes. Apply the brake pedal corresponding to the spinning front wheel in order to transfer torque to the wheel that still has traction.

This flow divider kit evenly splits traction flow between the front and rear wheel motors. This means that both a front and a rear tire will need to spin before the machine loses traction.

Note: When the flow divider is active, the traction system performance is more aggressive, particularly while the machine is turning. Be careful and practice operation in an inconspicuous area to understand traction performance on your machine.

The 2 optional installations have slightly different operational characteristics:

- Automatic Flow Divider Option: The flow divider is ALWAYS active when the machine is driving forward. There are no electronics or switches involved.
- Manually-activated Flow Divider Option: A switch is installed on the operator control panel. When not manually-activated, the traction behavior is identical to a machine without a flow divider. The operator can engage the switch when desired, activating the flow divider, evenly splitting flow between the front and rear traction motors while the machine is driving forward.

Note: The manually-activated option is only functional when the machine is in the LOW speed range.

The high and low speed range switch on the machine must be in the LOW setting, or alternatively in the HI/LO AUTO setting with the deck lowered for the flow divider to activate.

Notes:

Declaration of Incorporation

The Toro Company, 8111 Lyndale Ave. South, Bloomington, MN, USA declares that the following unit(s) conform(s) to the directives listed, when installed in accordance with the accompanying instructions onto certain Toro models as indicated on the relevant Declarations of Conformity.

Model No.	Serial No.	Product Description	Invoice Description	General Description	Directive
31529	—	Flow Divider Kit	4WD FLOW DIVIDER KIT, GM45/4700-F20 UP	Flow Divider Kit	2006/42/EC, 2014/30/EU

Relevant technical documentation has been compiled as required per Part B of Annex VII of 2006/42/EC.

We will undertake to transmit, in response to requests by national authorities, relevant information on this partly completed machinery. The method of transmission shall be electronic transmittal.

This machinery shall not be put into service until incorporated into approved Toro models as indicated on the associated Declaration of Conformity and in accordance with all instructions, whereby it can be declared in conformity with all relevant Directives.

Certified:



Tom Langworthy
Engineering Director
8111 Lyndale Ave. South
Bloomington, MN 55420, USA
October 11, 2022

Authorized Representative:

Marcel Dutrieux
Manager European Product Integrity
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UK Declaration of Incorporation

The Toro Company, 8111 Lyndale Ave. South, Bloomington, MN, USA declares that the following unit(s) conform(s) to the directives listed, when installed in accordance with the accompanying instructions onto certain Toro models as indicated on the relevant Declarations of Conformity.

Model No.	Serial No.	Product Description	Invoice Description	General Description	Regulation
31529	—	Flow Divider Kit	4WD FLOW DIVIDER KIT, GM45/4700-F20 UP	Flow Divider Kit	S.I. 2008 No. 1597 (Machinery Safety), S.I. 2016 No. 1091 (EMC)

Relevant technical documentation has been compiled as required per Schedule 10 of S.I. 2008 No. 1597.

We will undertake to transmit, in response to requests by national authorities, relevant information on this partly completed machinery. The method of transmission shall be electronic transmittal.

This machinery shall not be put into service until incorporated into approved Toro models as indicated on the associated Declaration of Conformity and in accordance with all instructions, whereby it can be declared in conformity with all relevant Directives.

This declaration has been issued under the sole responsibility of the manufacturer.
The object of the declaration is in conformity with relevant UK legislation.



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