Form No. 3420-828 Rev A

Hydraulic Switch Kit

Sand Pro® 5040 Traction Unit

Model No. 08783—Serial No. 400000000 and Up

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.

⚠ WARNING

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

- **Seek immediate medical attention if fluid is injected into skin. Injected fluid must be surgically removed within a few hours by a doctor.**
- **Ensure 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.**

This kit requires the Front Lift Frame (Model No. 08712) to be installed on the machine.

Important: **To maximize the safety, performance, and proper operation of this machine, carefully read and fully understand the contents of this *Operator's Manual*. Failing to follow these operating instructions or to receive proper training may result in injury. For more information on safe operating practices, including safety tips and training materials, go to www.Toro.com.**

Whenever you need service, genuine Toro parts, or additional information, contact an Authorized Service Dealer or Toro Customer Service and have the model and serial numbers of your product ready. Figure 1 identifies the location of the model and serial numbers on the product. Write the numbers in the space provided.

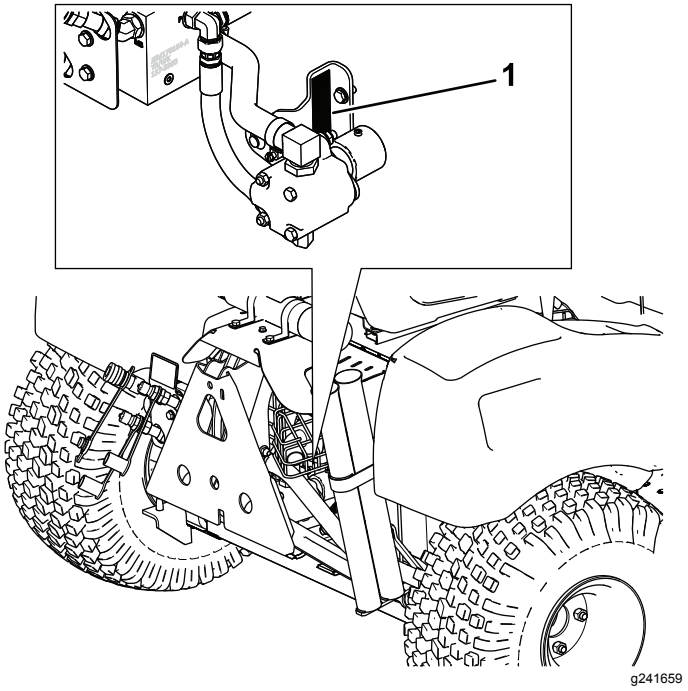


Figure 1

1. Location of the model and serial numbers

Model No. _____

Serial No. _____

Note: Determine the left and right sides of the machine from the normal operating position.

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Register at www.Toro.com.

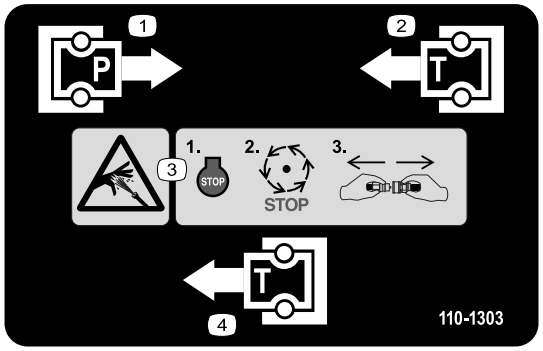
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3420-828 A

Safety

Safety and Instructional Decals

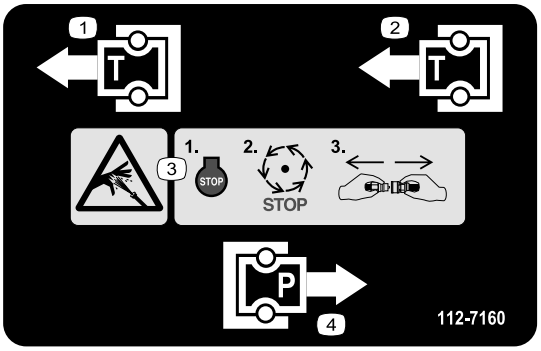
Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.



decal110-1303

110-1303

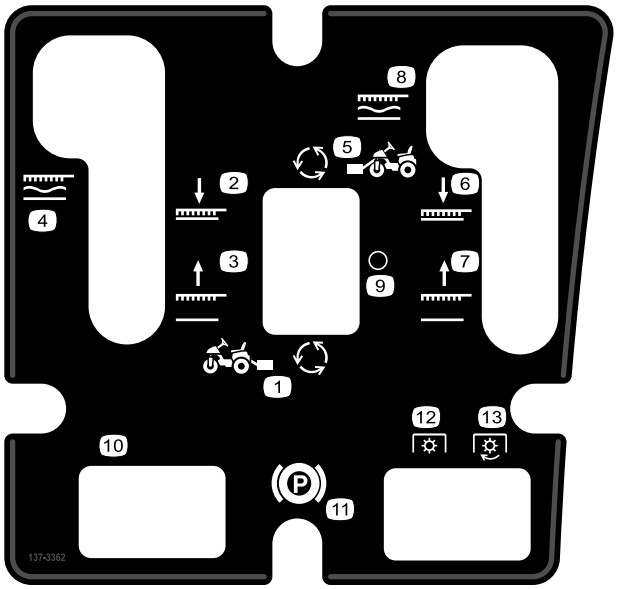
1. Pressure
2. Tank
3. High pressure fluid, injection into body hazard—shut off the engine, stop the attachment, and disconnect the quick-connect ports.
4. Tank



decal112-7160

112-7160

1. Tank
2. Tank
3. High pressure fluid, injection into body hazard—shut off the engine, stop the attachment, and disconnect the quick-connect ports.
4. Pressure



decal137-3362

137-3362

1. Rear attachment—on
2. Rear attachment lower position
3. Rear attachment raise position
4. Rear attachment, locked in float position
5. Front attachment—on
6. Front attachment lower position
7. Front attachment raise position
8. Front attachment, locked in float position
9. Off
10. Hour meter
11. Parking brake
12. PTO—disengaged (down)
13. PTO—engaged (up)

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 air cleaner.
3	No parts required	–	Remove the hydraulic reservoir, left rear wheel assembly, shrouds, and seat.
4	No parts required	–	Remove the rear hitch tube and the lift system.
5	Small 90-degree tee with barb	1	Install the fittings to the hydraulic tank.
	Large 90-degree elbow (threaded both ends)	1	
	Strainer	1	
	Valve-block return hose	1	
6	Hydraulic pump	1	Install the hydraulic pump.
	90-degree fitting (male ends)	1	
	Hub assembly	1	
	Square key (1/4 x 1 inch)	1	
	Setscrew (5/16 x 3/4 inch)	4	
	Pump bracket	1	
	Bolt (with thread-locking compound) (5/16 x 3/4 inch)	2	
	Washer (3/8 inch)	2	
	Large 90-degree elbow (with hose barbed end)	1	
7	U-fitting (hard line)	1	Install the front hydraulic fittings.
	90-degree elbow	1	
	Tee fitting	1	
	Cap	2	
	Plug	1	
	Female fitting	1	
	Large retaining ring	1	
	Small retaining ring	1	
	Small O-ring	2	
	Large O-ring	2	
	Straight fitting	2	
	Male fitting	2	
8	Front supply hose	1	Install the hydraulic hoses.
	Front return hose	1	
	Pump supply tube (hard line)	1	
	Valve-block return hose	1	
	Pump supply hose	1	

Procedure	Description	Qty.	Use
9	Valve block Frame bracket Screw (5/16 x 3/4 inch) Tube bracket Valve-block plate Bolt (5/16 x 2 inch) Washer (5/16 inch) Female coupler Male coupler Plug Cap Tube bracket Valve-block supply hose	1 1 2 1 1 2 2 1 2 1 2 1 1	Install the valve block.
10	No parts required	–	Tighten all connections.
11	Control panel Harness Switch PTO switch Fuse Relay bracket Relay Flange-head bolt (5/16 x 3/4 inch) Bolt (1/4 x 5/8 inch) Locknut (1/4 inch)	1 1 1 1 1 1 1 2 1 1	Install the switch and harness.
12	Dipstick Hydraulic fluid—25.5 L (6-3/4 US gallons)	1 –	Install the hydraulic fluid and check for leaks.

1

Preparing the Machine

No Parts Required

Procedure

1. Park the machine on a level surface.
2. Lower the attachments.
3. Engage the parking brake.
4. Shut off the engine and remove the key.
5. Thoroughly clean the machine. Remove all debris to ensure that the mounting brackets will fit properly and that no dirt or debris gets into the hydraulic system.

2

Removing the Air Cleaner

No Parts Required

Procedure

1. Thoroughly clean the area around the air cleaner.
2. Loosen the radiator clamp around the hose and lower the clamp onto the hose.
3. Remove the inside bolt holding the air cleaner in place.
4. Remove the air-cleaner cover and filter (Figure 2).

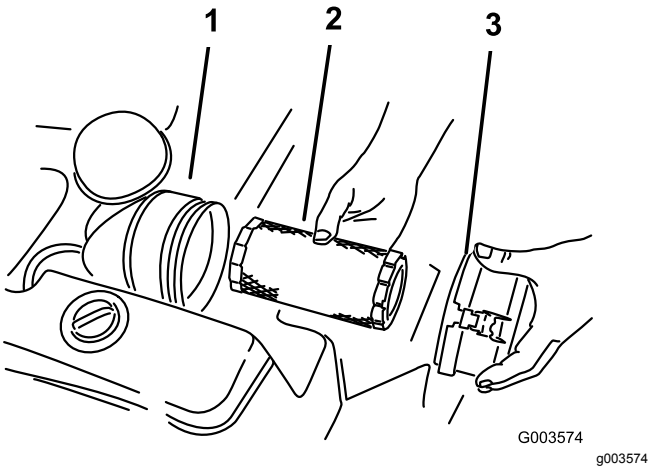


Figure 2

1. Air-cleaner canister
2. Air filter
3. Canister cover

5. Remove the hose from the air-cleaner canister.
6. Spread the air-cleaner strap open and pull it over the end of the canister where the filter was taken out (Figure 3).

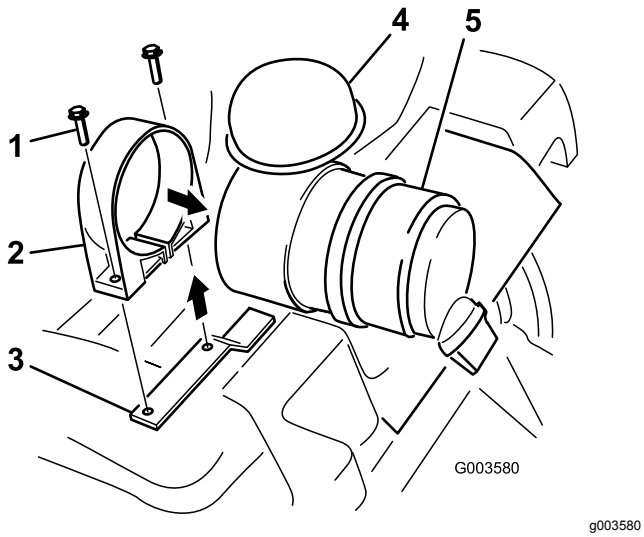


Figure 3

1. Bolt
2. Air-cleaner strap
3. Machine frame
4. Cap
5. Air-cleaner canister

7. Cover the hose or insert a rag into it so that no dirt or debris gets into it while installing this kit.
8. Remove the opposite bolt holding the air-cleaner strap to the machine frame.

3

Removing the Hydraulic Reservoir, Left Rear Wheel Assembly, Shrouds, and Seat

No Parts Required

Procedure

1. Drain the hydraulic tank. Refer to the machine *Operator's Manual*.
2. Raise the rear of the machine off the ground and block up the rear of the machine. Refer to the machine *Operator's Manual* under Raising the Machine.

⚠ WARNING

Mechanical or hydraulic jacks may fail to support the machine and cause serious injury.

Use jack stands when supporting the machine.

3. Remove the left rear tire.
4. Remove and retain the 4 flange-head screws securing the left wheel shroud to the frame (Figure 4). Remove and retain the shroud.

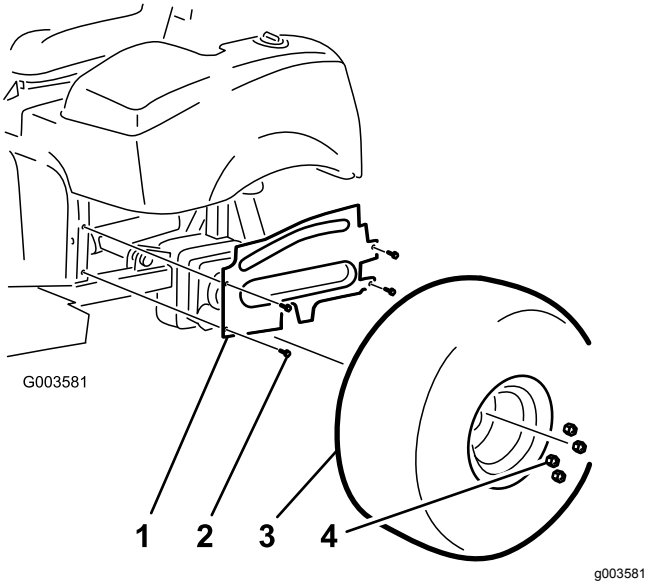


Figure 4

1. Left wheel shroud
2. Flange-head screw (4)
3. Tire
4. Nut (4)

5. Remove and retain the 2 flange-head screws securing the left front screen to the frame. Remove and retain the screen.

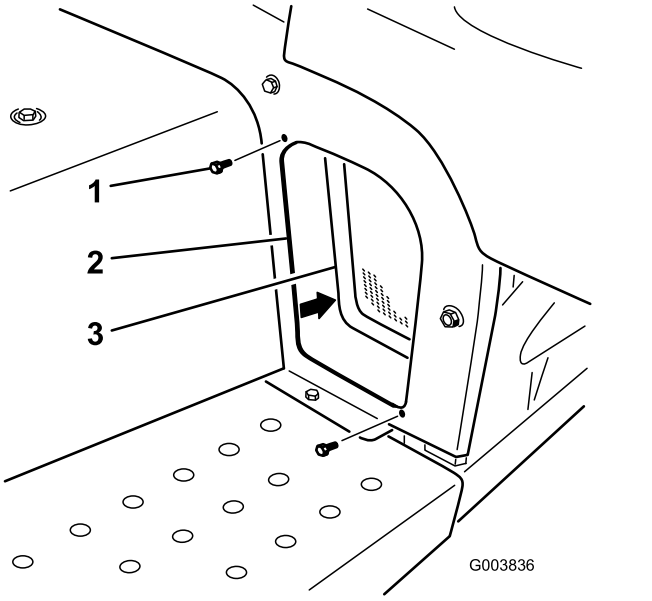


Figure 5

1. Flange-head screw (2)
2. Frame
3. Left front screen

6. Remove and retain the 3 bolts securing the rear hitch shield to the frame.

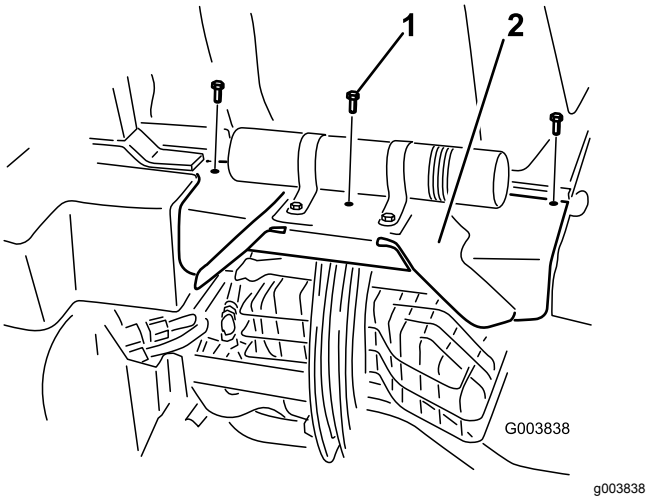


Figure 6

1. Bolt (3)
2. Rear hitch shield

7. Loosen the 2 screws securing the center shroud to the machine (Figure 7). Remove and retain the shroud.

   Note: The screws are secured to the shroud

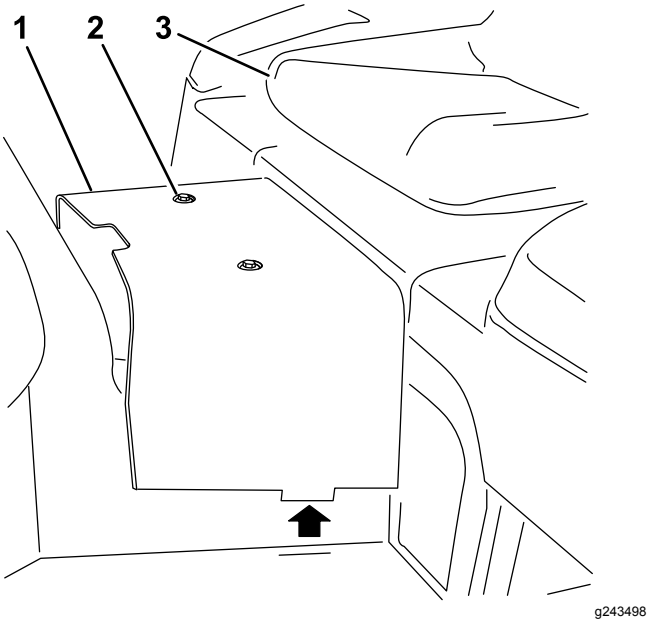


Figure 7

1. Center shroud
2. Screw (2)
3. Seat

8. Remove the console shroud and the seat (Figure 8).

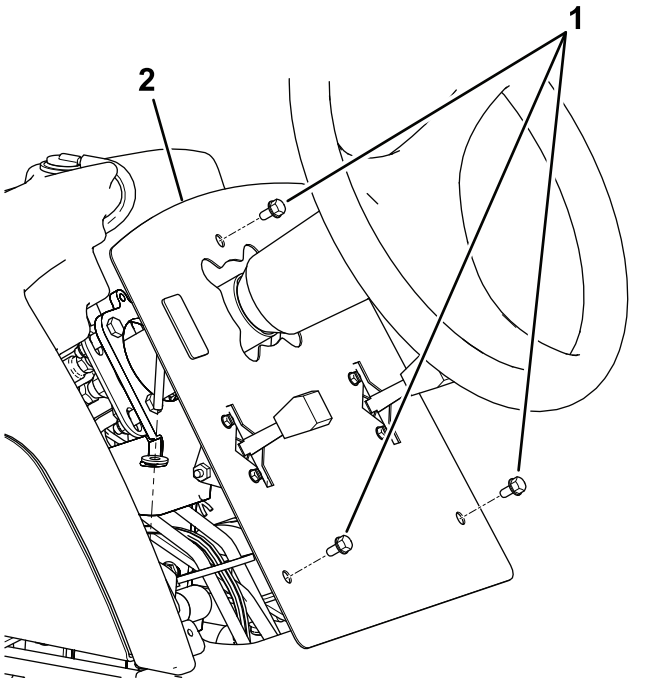


Figure 8

1. Flange-head screws
2. Console

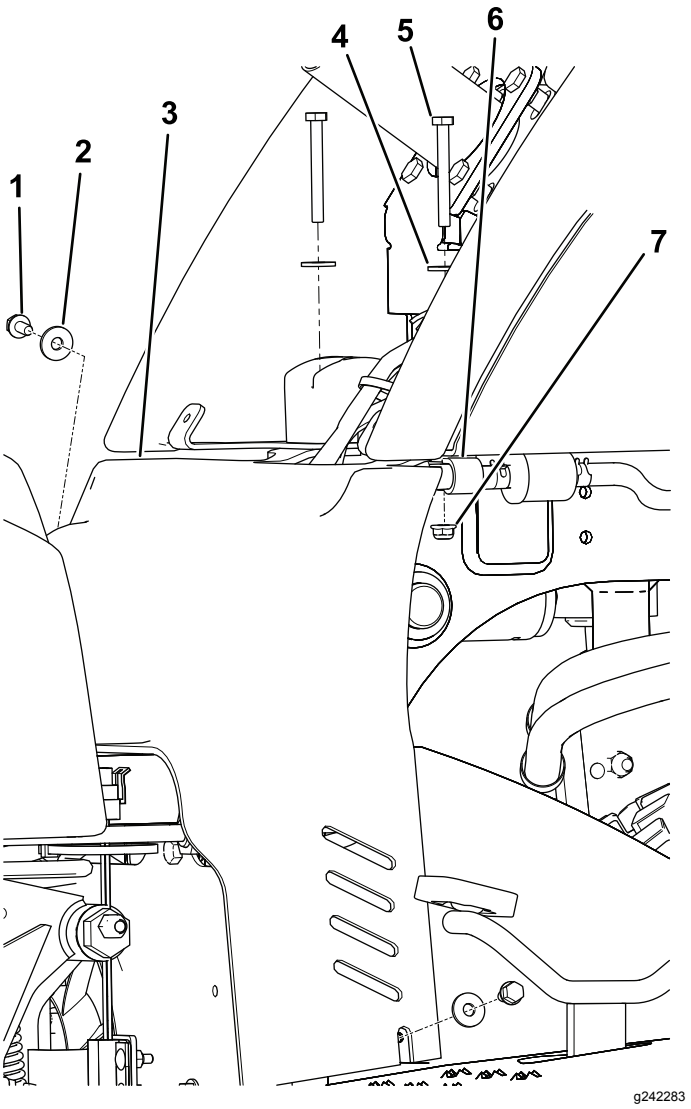


Figure 9

1. Flange-head screw (2)
2. Washer (2)
3. Shroud
4. Washer (2)
5. Bolt (2)
6. P-clamp
7. Flange nut (2)

9. Disconnect the seat-switch wire from the seat switch, and remove the pins securing the seat base to the frame of the machine.

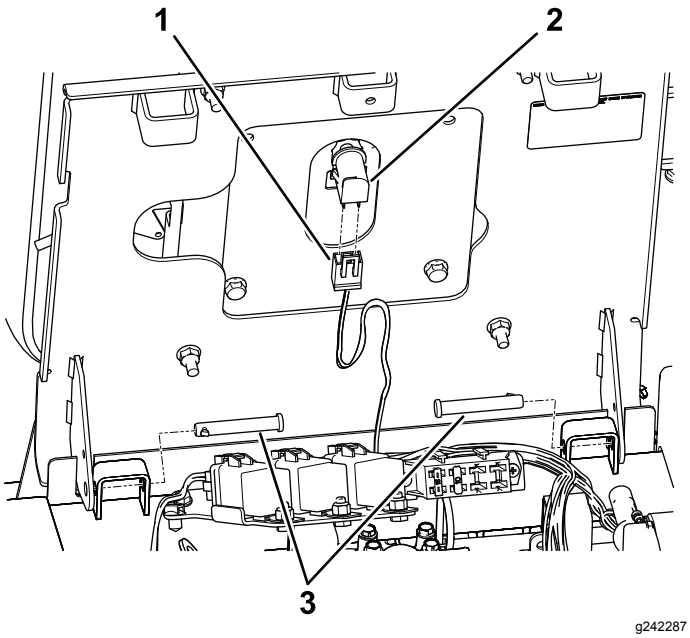


Figure 10

1. Seat-switch wire
2. Seat switch
3. Pins

10. Disconnect the hydraulic lines going to the tank.
11. Remove the top hydraulic tank bracket from the machine frame and loosen the 2 brackets on the side of the frame (Figure 11). Remove and retain the tank and the hardware.

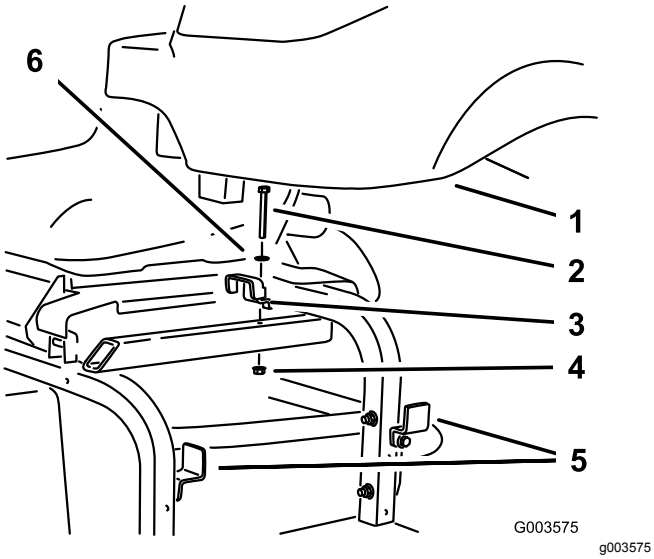


Figure 11

1. Hydraulic tank
2. Bolt
3. Top bracket
4. Nut
5. Side bracket
6. Washer

4

Removing the Rear Hitch Tube and the Lift System

No Parts Required

Procedure

Remove the rear hitch assembly as shown in Figure 12.

Retain the hitch assembly and all the hardware for later installation.

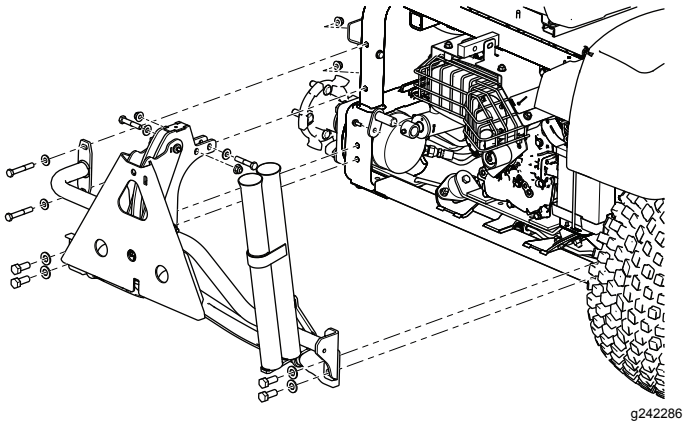


Figure 12

5

Installing the Fittings to the Hydraulic Tank

Parts needed for this procedure:

1	Small 90-degree tee with barb
1	Large 90-degree elbow (threaded both ends)
1	Strainer
1	Valve-block return hose

Procedure

Note: Make sure that all O-rings are lubricated and properly positioned on all fittings before installation.

Note: Install the fittings at the angles shown in the figures. Use a backup wrench on all tank fittings.

1. Remove the 2 hydraulic tank plugs from the side of the tank.
2. Install the strainer into the hydraulic tank where the large plug was removed.
3. Install the large 90-degree elbow into the strainer.
4. Install the small 90-degree tee with barb where the small plug was removed (Figure 13).

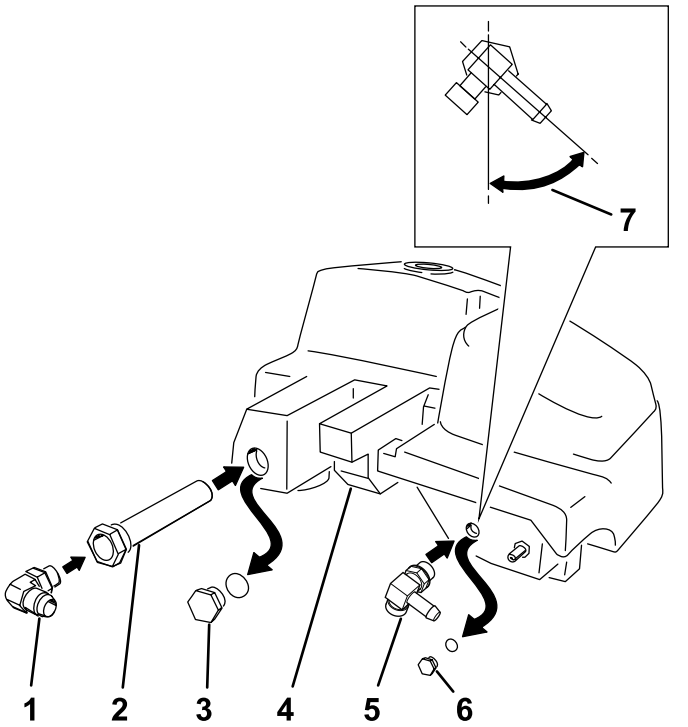


Figure 13

1. Large 90-degree elbow (install at angle shown)
2. Strainer
3. Remove the large plug.
4. Hydraulic tank
5. Small 90-degree tee (install at angle shown)
6. Remove the small plug.
7. 45 degrees

5. Connect the valve-block return hose to the tee fitting installed on the hydraulic tank.

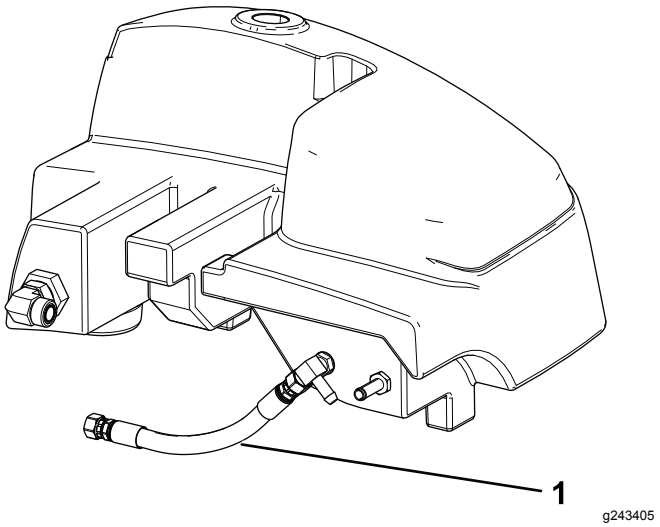


Figure 14

1. Valve-block return hose

6

Installing the Hydraulic Pump

Parts needed for this procedure:

1	Hydraulic pump
1	90-degree fitting (male ends)
1	Hub assembly
1	Square key (1/4 x 1 inch)
4	Setscrew (5/16 x 3/4 inch)
1	Pump bracket
2	Bolt (with thread-locking compound) (5/16 x 3/4 inch)
2	Washer (3/8 inch)
1	Large 90-degree elbow (with hose barbed end)

Procedure

1. Install the torque arm to the hydraulic pump (Figure 15).

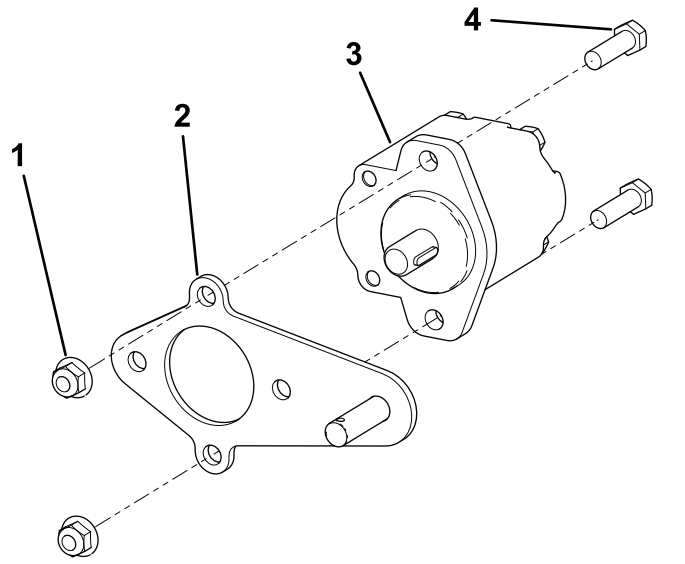


Figure 15

1. Flange nut (2)
2. Torque arm
3. Pump
4. Bolt (2)

2. Install the square 90-degree elbow to the top of the hydraulic pump.
3. Install the 90-degree elbow to the bottom of the hydraulic pump (Figure 16).

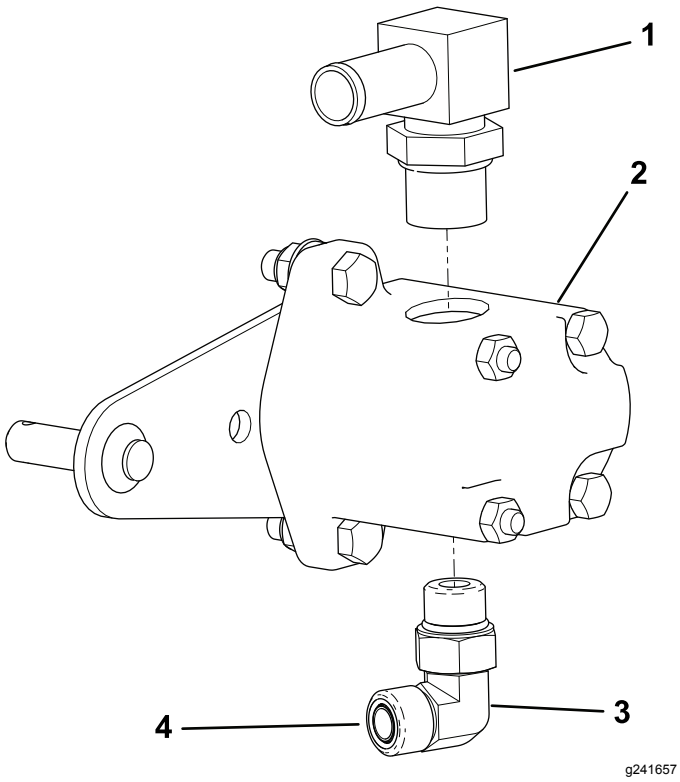


Figure 16

1. Square 90-degree elbow (with hose barbed end)
2. Hydraulic pump
3. 90-degree elbow
4. Female end

4. Remove the existing cover over the engine PTO (power takeoff); refer to Figure 17.

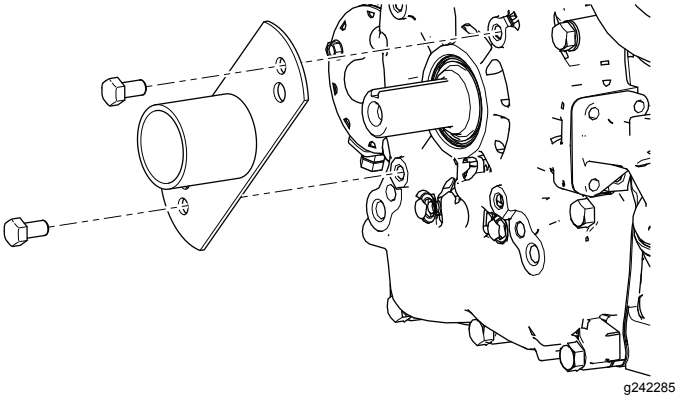


Figure 17

5. Install the pump bracket to the engine with 2 bolts (5/16 x 3/4 inch) and 2 washers (3/8 inch). Refer to Figure 18 for the correct position to install the pump bracket.

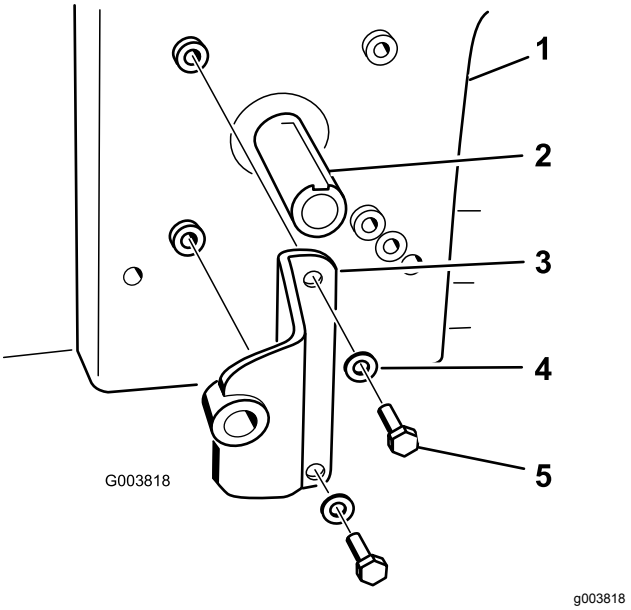


Figure 18

1. Engine
2. Engine PTO shaft
3. Pump bracket
4. Washer (3/8 inch)
5. Bolt (5/16 x 3/4 inch)

6. Apply anti-seize compound to the engine PTO (power takeoff) shaft and the hydraulic motor shaft.
7. Install the square key (1/4 x 1 inch) into the slot in the engine PTO shaft (Figure 19).
8. Align the hub assembly with the square key and install it onto the engine PTO (power takeoff) shaft (Figure 19).

   Note: Make sure that the hub assembly is totally bottomed out on the shaft.

9. Apply removable thread-locking compound to the 2 setscrews (5/16 x 3/4 inch) and install them into the hub assembly to secure it to the PTO shaft (Figure 19).

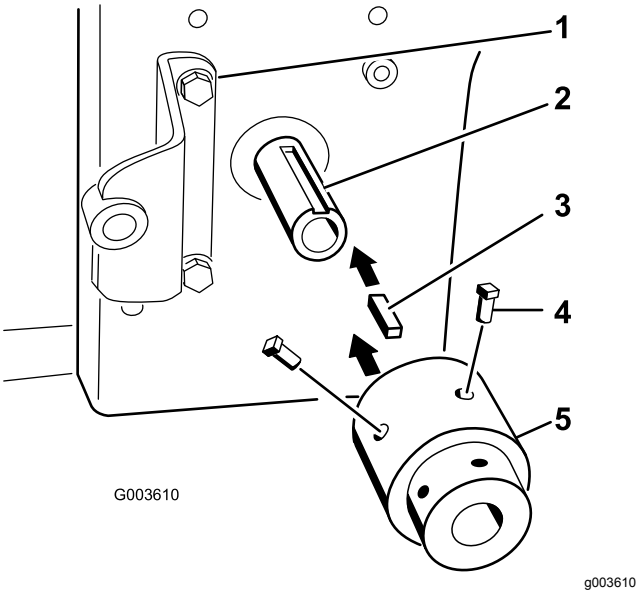


Figure 19

1. Pump bracket
2. Engine PTO shaft
3. Square key (1/4 x 1 inch)
4. Setscrew (5/16 x 3/4 inch)
5. Hub assembly

10. Install the pump plate stud into the pump bracket while installing the hydraulic pump shaft into the hub assembly.

    Note: The hydraulic pump shaft will touch the end of the engine PTO shaft (Figure 20).

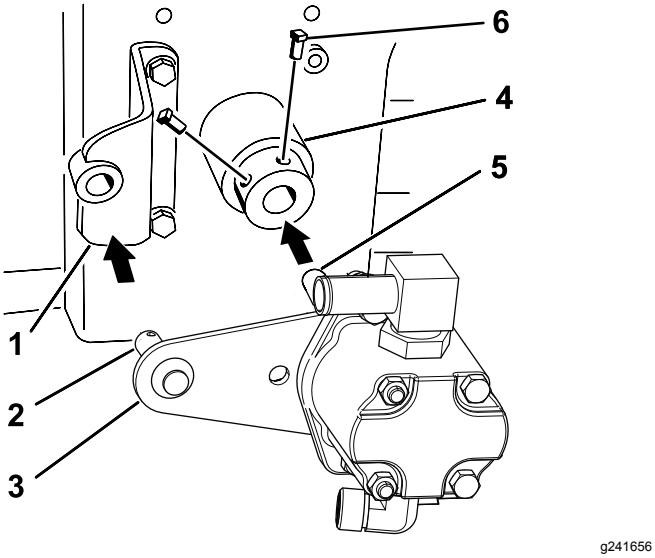


Figure 20

1. Pump bracket
2. Pump plate stud
3. Pump plate
4. Hub assembly
5. Hydraulic pump shaft
6. Setscrew (5/16 x 3/4 inch)

11. Verify that there is a gap between the pump plate and the hub assembly. If there is no gap, then the hub assembly is not installed correctly and needs to be seated correctly (Figure 21).

    Important: **The hub assembly needs to be totally seated on the shaft.**

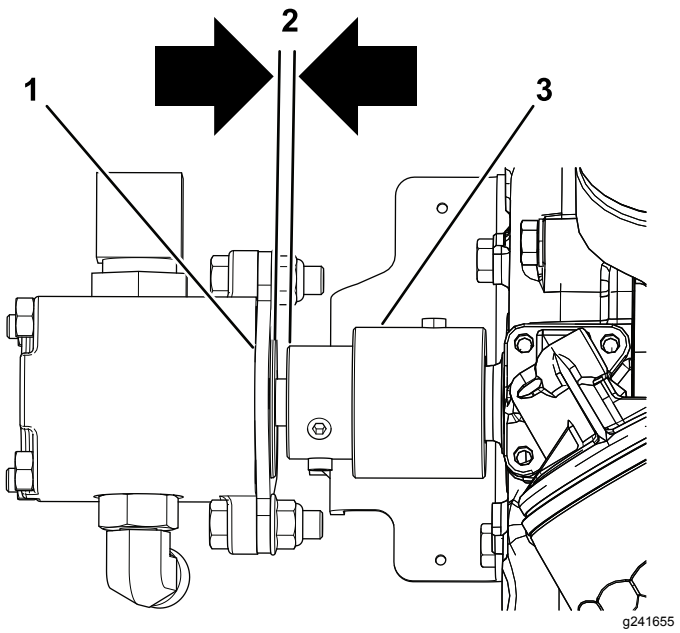


Figure 21

1. Pump plate
2. 1.0 to 3.1 mm (0.040 to 0.122 inch) gap between hub assembly and pump plate
3. Hub assembly

12. Apply removable thread-locking compound to the 2 setscrews (5/16 x 3/4 inch) and install them into the hub assembly to secure the hydraulic pump shaft (Figure 20).

7

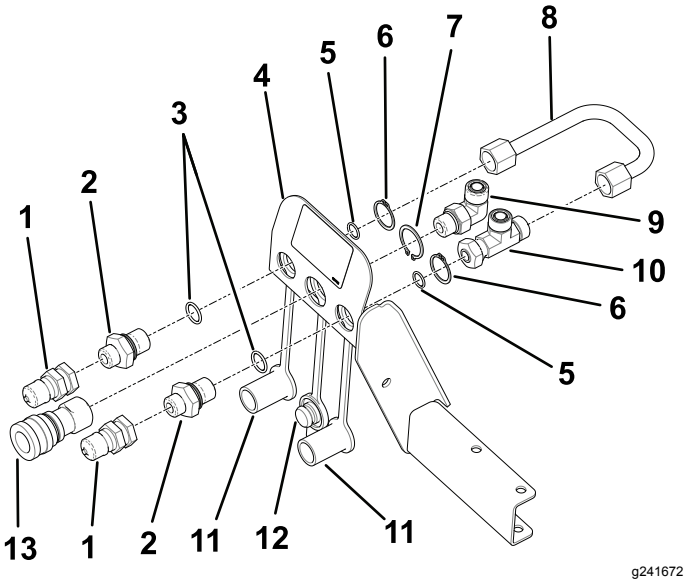
Installing the Front Hydraulic Fittings

Parts needed for this procedure:

1	U-fitting (hard line)
1	90-degree elbow
1	Tee fitting
2	Cap
1	Plug
1	Female fitting
1	Large retaining ring
1	Small retaining ring
2	Small O-ring
2	Large O-ring
2	Straight fitting
2	Male fitting

Procedure

1. Install the fittings to the bracket (Figure 22).

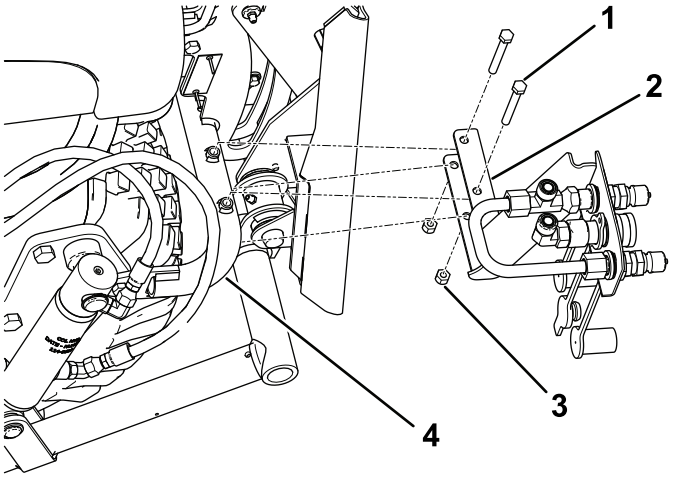


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Figure 22

1. Male fitting
2. Straight fitting
3. Large O-ring (2)
4. Bracket
5. Small O-ring (2)
6. Small retaining ring
7. Large retaining ring
8. U-fitting (hard line)
9. 90-degree elbow
10. Tee fitting
11. Cap
12. Plug
13. Female fitting

2. Install the bracket to the front lift frame.



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Figure 23

1. Bolt (2)
2. Bracket
3. Nut (2)
4. Front lift frame

8

Installing the Front Hydraulic Hoses

Parts needed for this procedure:

1	Front supply hose
1	Front return hose
1	Pump supply tube (hard line)
1	Valve-block return hose
1	Pump supply hose

Procedure

Use Figure 24 and Figure 25 for identifying the correct hydraulic lines and hoses.

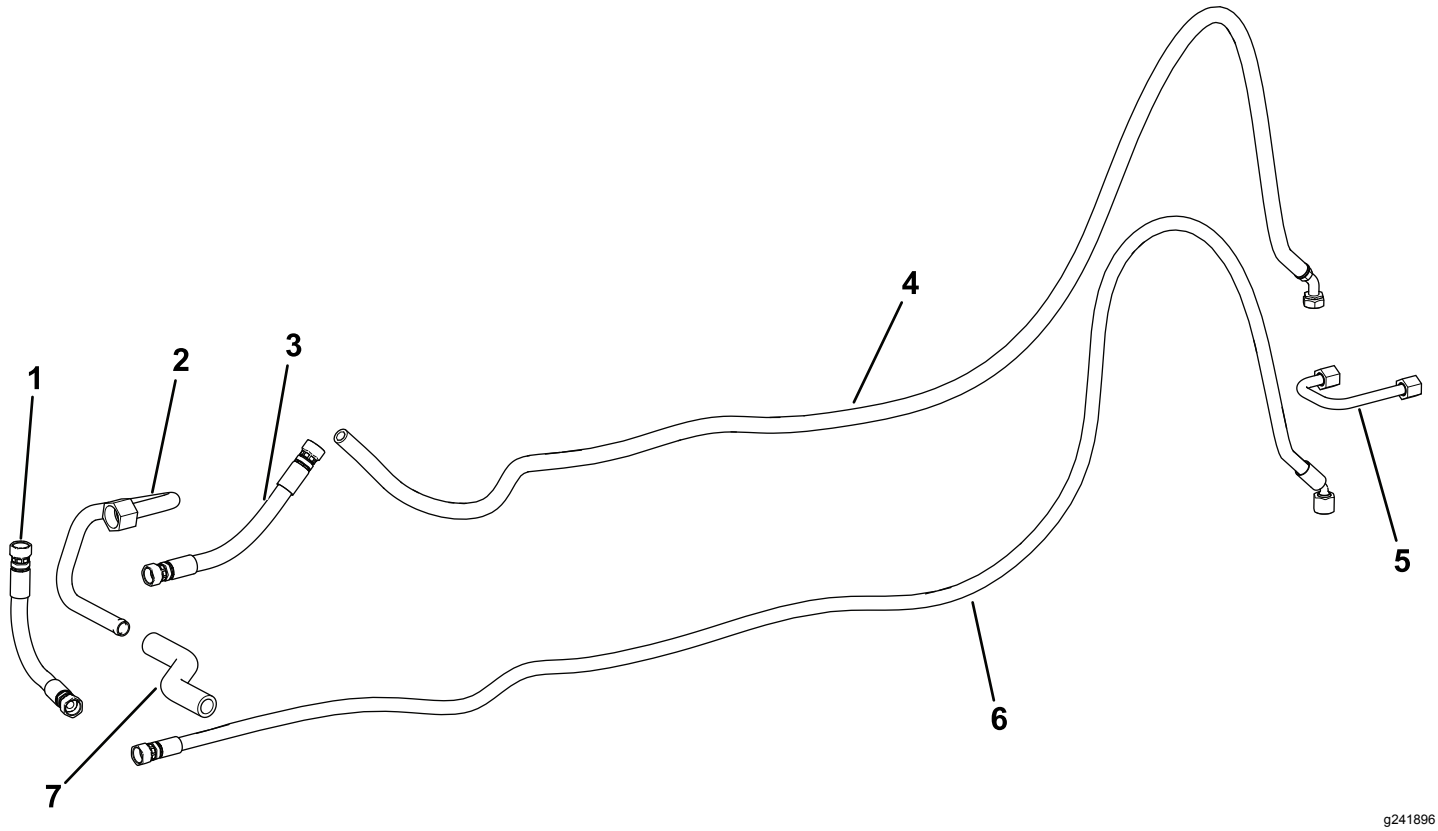
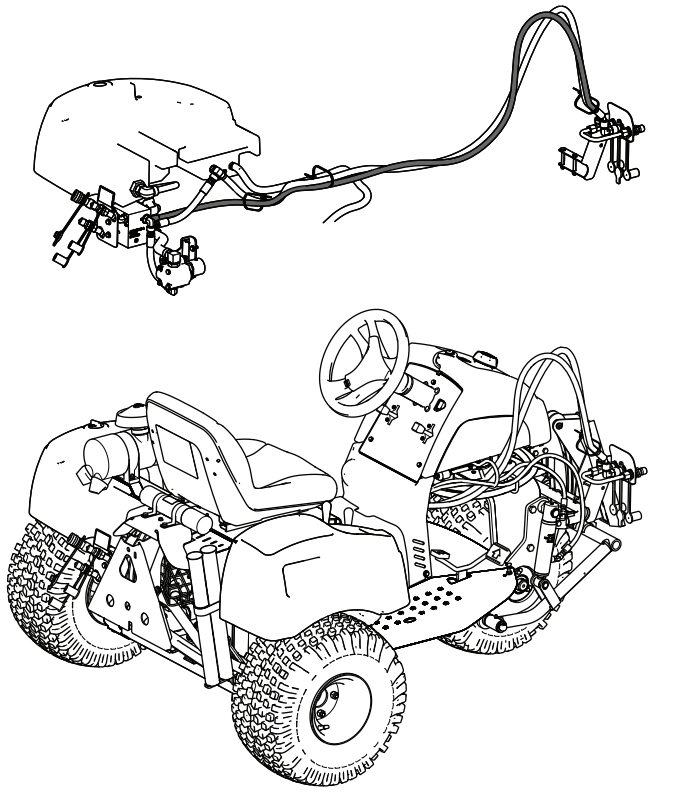


Figure 24

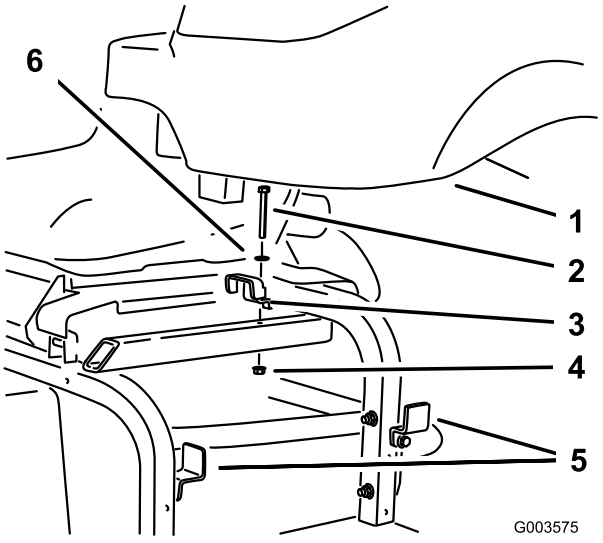
1. Valve-block supply hose
2. Pump supply tube (hard line)
3. Valve-block return hose
4. Front return hose
5. U-fitting (hard line)
6. Front supply hose
7. Pump supply hose



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Figure 25

1. Install the existing hose back onto front right corner of the hydraulic tank.
2. Install the hydraulic tank to the frame and secure it with the 3 brackets previously removed and loosened (Figure 26).

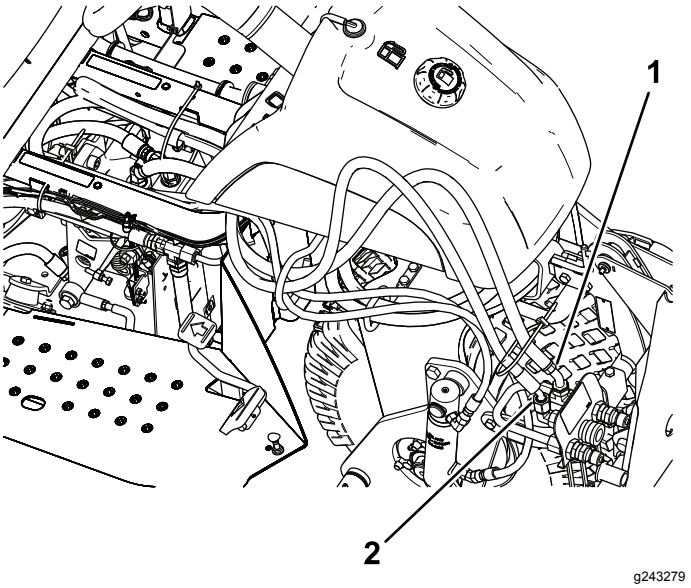


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Figure 26

1. Hydraulic tank
2. Bolt
3. Top bracket
4. Nut
5. Side bracket
6. Washer

3. Install the front supply hose to the elbow fitting in the middle of the bracket (Figure 27).

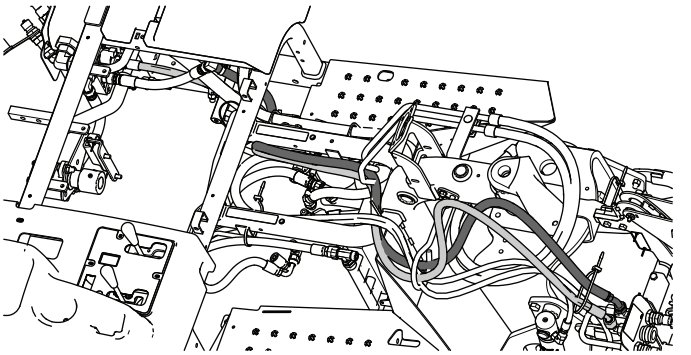


g243279

Figure 27

1. Front return hose
2. Front supply hose

4. Install the front return hose to the tee fitting on the left side of the bracket (Figure 27).
5. Route the front hoses as shown in Figure 28.



g243529

Figure 28

1. Front return hose
2. Front supply hose

6. Remove and discard the nut and bolt securing the tank bracket to the machine frame. Retain the tank bracket (Figure 29).

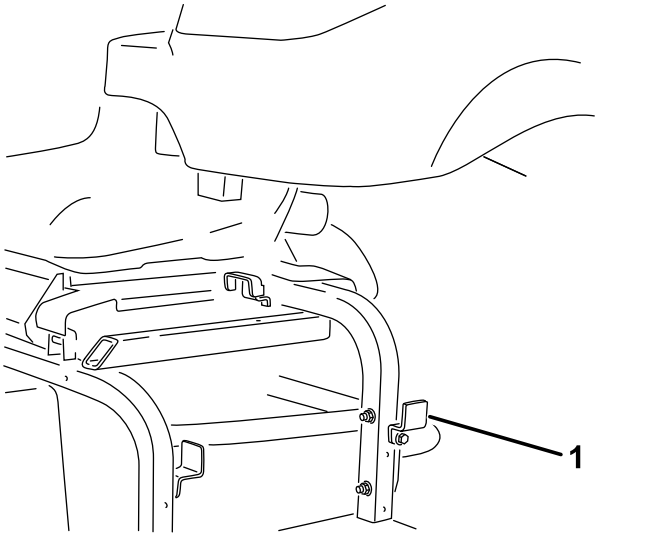


Figure 29

1. Tank bracket

7. Position the pump supply tube (hard line) and the pump supply hose onto the machine as shown in Figure 30.

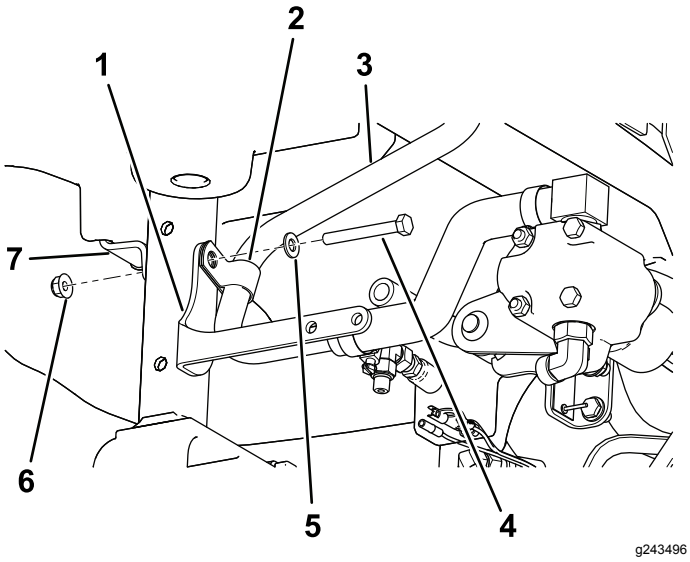


Figure 30

1. Frame bracket
2. P-clamp
3. Pump supply tube
4. Bolt (5/16 x 2-1/2 inch))
5. Washer (5/16)
6. Flange nut (5/16)
7. Tank bracket (existing)

8. Loosely install the P-clamp, the pump supply tube, the tank bracket, and the frame bracket to the machine frame with a bolt, washer, and nut as shown in Figure 30.
9. Loosely install the pump supply tube (hard line) to the large 90-degree elbow installed to the strainer in the hydraulic tank (Figure 31).

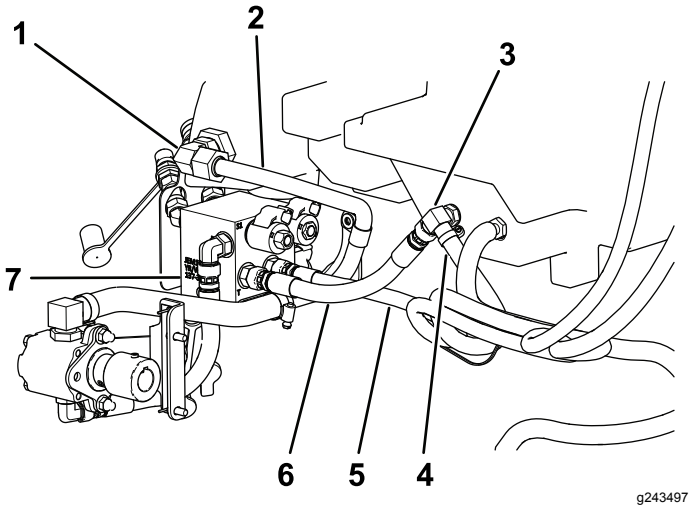


Figure 31

1. Large 90-degree elbow
2. Pump supply tube
3. Tee fitting
4. Front return hose
5. Front supply hose
6. Valve-block return hose
7. Valve block

9

Installing the Valve Block

Parts needed for this procedure:

1	Valve block
1	Frame bracket
2	Screw (5/16 x 3/4 inch)
1	Tube bracket
1	Valve-block plate
2	Bolt (5/16 x 2 inch)
2	Washer (5/16 inch)
1	Female coupler
2	Male coupler
1	Plug
2	Cap
1	Tube bracket
1	Valve-block supply hose

Procedure

1. Connect the loose end of the front supply hose to the fitting installed in port M1 of the valve block (Figure 31).

2. Connect the loose end of the front return hose to the barbed end of the tee fitting installed on the hydraulic-fluid tank.
3. Connect the loose end of the valve-block return hose to the fitting installed in port T of the valve block.
4. Loosely install the valve block to the frame bracket with 2 screws (Figure 32).

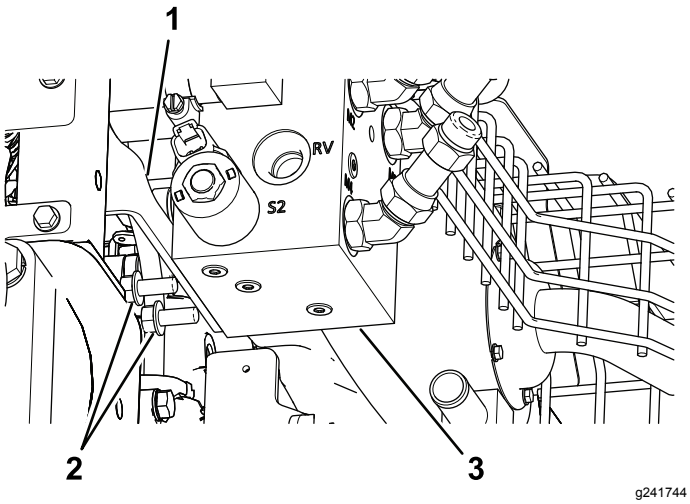


Figure 32

1. Frame bracket
2. Screws (5/16 x 3/4 inch)
3. Valve block

5. Install the rear hitch frame with the original hardware (Figure 33).

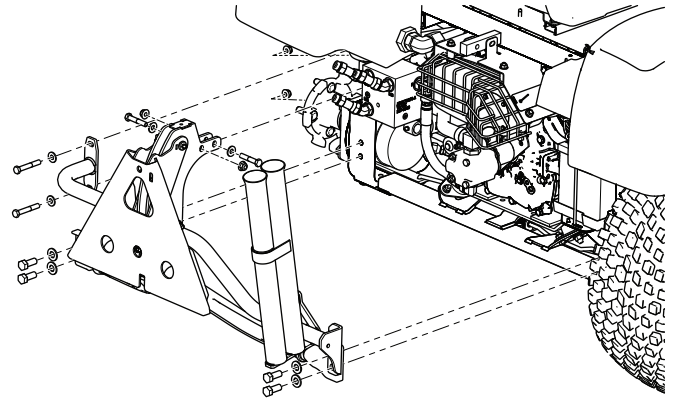


Figure 33

6. Align the valve-block plate and the tube bracket to the tube of the rear hitch frame and secure them to the hitch frame and the valve block with 2 screws (Figure 34).

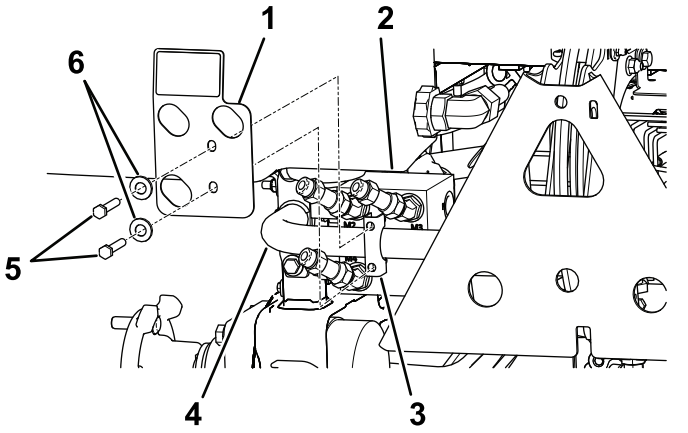


Figure 34

1. Valve-block plate
2. Valve block
3. Tube bracket
4. Rear hitch frame
5. Bolts (5/16 x 2 inch)
6. Washers (5/16 inch)

7. Install the couplers onto the ends of the hydraulic fittings (Figure 35).

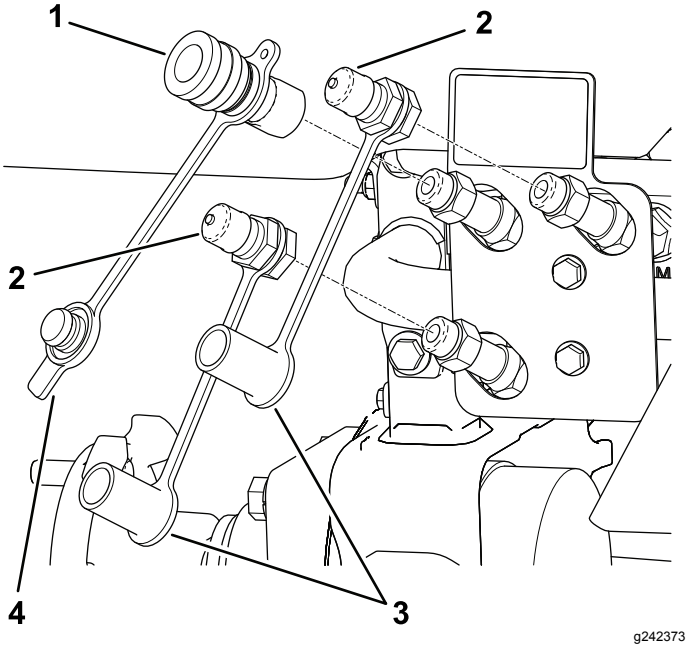


Figure 35

1. Female coupler
2. Male coupler
3. Caps
4. Plug

8. Install the plug onto the female coupler and a cap onto each male coupler.
9. Install the valve-block supply hose to the fitting on the bottom of the pump (Figure 36).

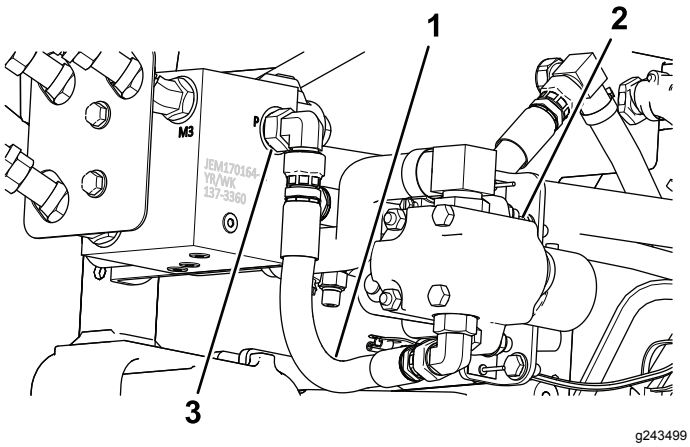


Figure 36

1. Valve-block supply hose
2. Pump
3. Port P

10. Install the other end of the valve-block supply hose to port P on the valve block (Figure 36).
11. Tighten all the fasteners.

10

Tightening All Connections

No Parts Required

Procedure

Important: **Make sure that the hoses and hydraulic lines are routed away from and to do not rub against any sharp, hot, or moving components.**

Ensure that the valve block does not contact the hydraulic tank or any hoses

When all hydraulic lines and hoses are installed, tighten all of the connections.

Note: Use a backup wrench on all fittings.

11

Installing the Switch, the Relay, and the Harness

Parts needed for this procedure:

1	Control panel
1	Harness
1	Switch
1	PTO switch
1	Fuse
1	Relay bracket
1	Relay
2	Flange-head bolt (5/16 x 3/4 inch)
1	Bolt (1/4 x 5/8 inch)
1	Locknut (1/4 inch)

Procedure

1. Disconnect the battery; refer to the traction unit *Operator's Manual*.
2. Remove the control panel from the machine (Figure 37).

   Retain the cap screws and washers for later installation.

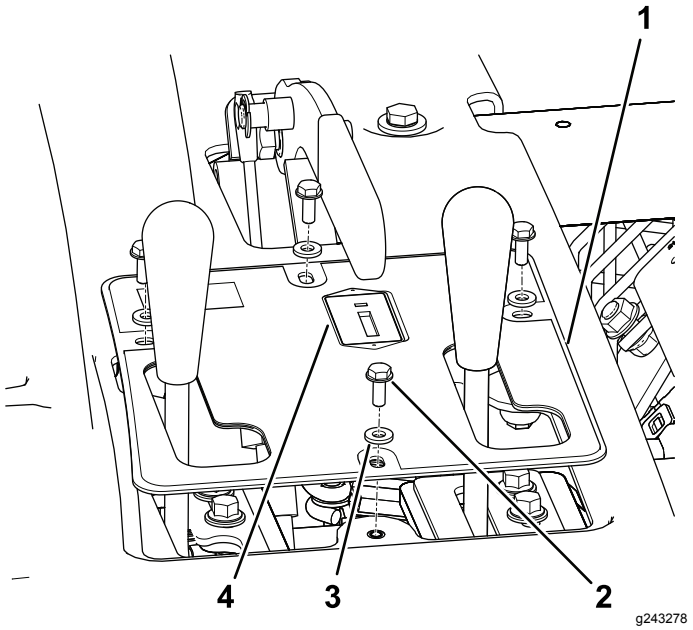


Figure 37

1. Existing control panel
2. Cap screw (4)
3. Washer (4)
4. Hour meter

3. Remove the hour meter from the existing control panel.
4. Install the hour meter, the PTO switch, and the attachment switch to the new panel (Figure 40).
5. Route the harness from the switch, along the seat hinge as shown in Figure 38.

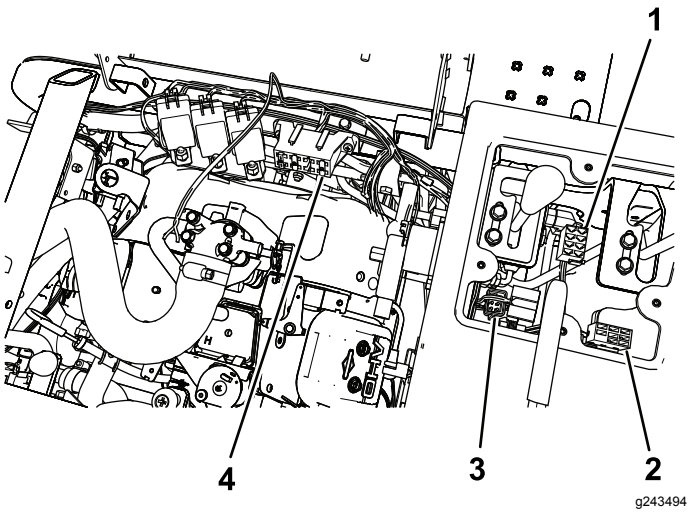


Figure 38

1. Switch connector
2. PTO connector
3. Main harness connector
4. Fuse block

6. Remove the jumper wire from the main harness under the control panel (Figure 39).

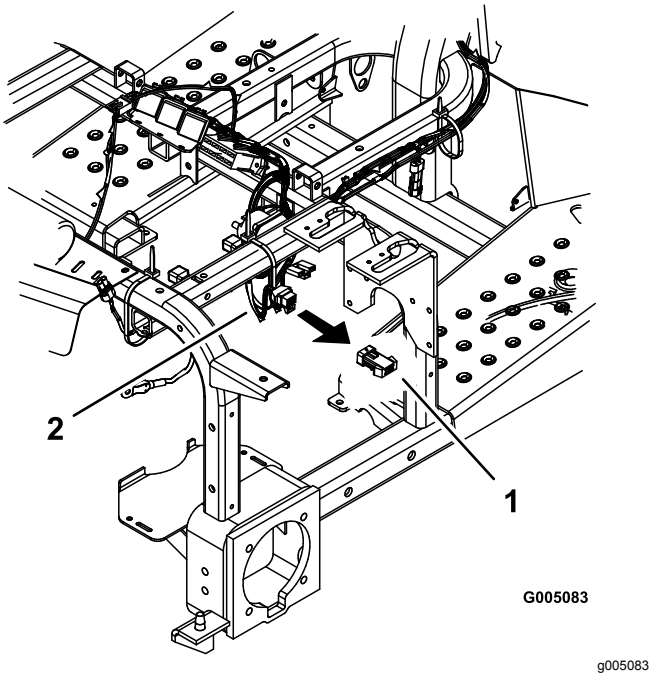


Figure 39

1. Jumper wire
2. Main harness connector

7. Install the harness to the switch in the control panel (Figure 40).
8. Install the main harness connector to the main harness (Figure 40).
9. Plug the connectors on the kit harness to the corresponding connectors; plug the main connector into the main machine harness, the PTO connector into the PTO switch, the switch connector into the selector switch.

   Plug the existing hour-meter connector into the hour meter.

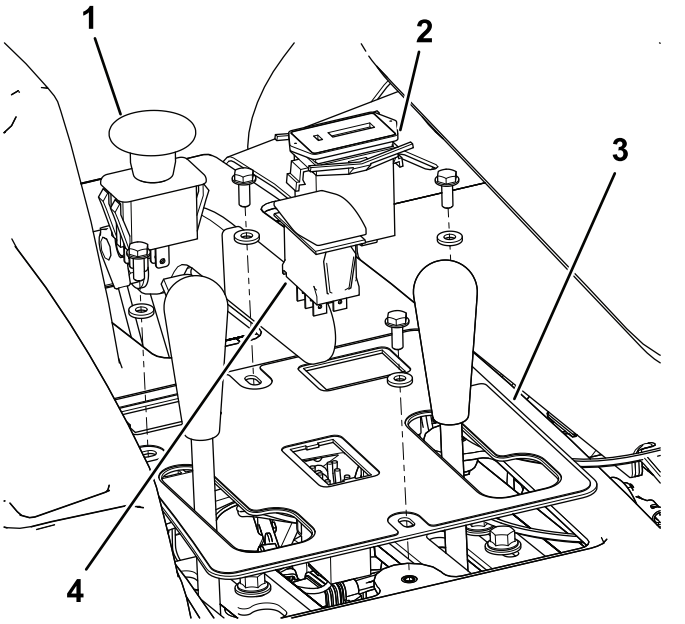


Figure 40

1. PTO switch
2. Hour meter
3. Control panel
4. Attachment switch

10. Install the control panel to the machine. Use the original cap screws and washers.
11. Install the fuse into the right slot in the fuse block (Figure 38).
12. Install the relay bracket to the machine frame (Figure 41).

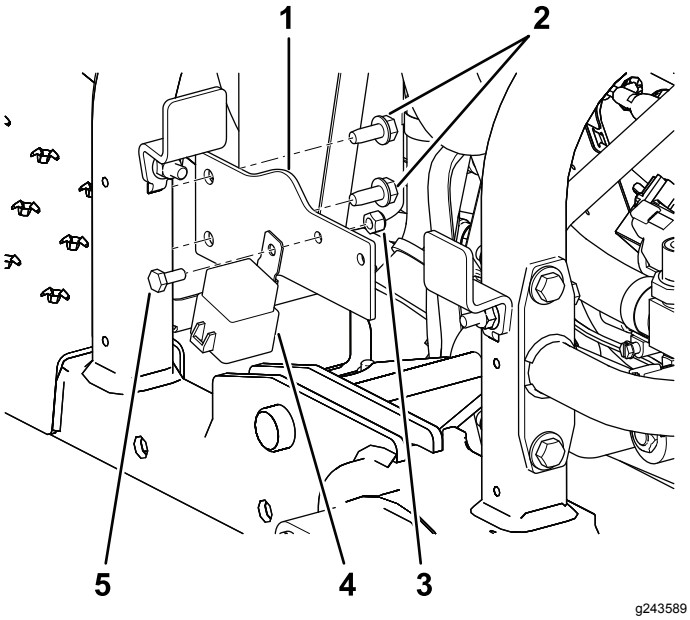


Figure 41

1. Relay bracket
2. Flange-head bolts (5/16 x 3/4 inch)
3. Locknut (1/4 inch)
4. Relay
5. Bolt (1/4 x 5/8 inch)

13. Install the relay to the relay bracket (Figure 41).
14. Connect the square connector to the relay (Figure 42).

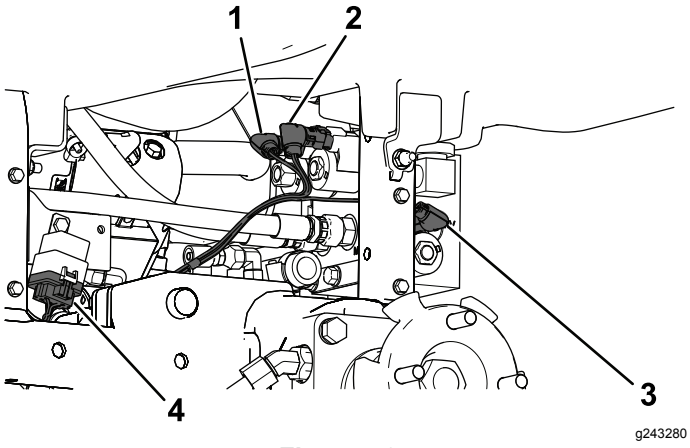


Figure 42

1. Return to tank (connect to S1 on the block)
2. Rear attachment (connect to S3 on the block)
3. Front attachment (connect to S2 on the block)
4. Square connector

15. Connect the 3 small connectors to the 3 valves (Figure 42).
16. Connect the battery; refer to the traction unit *Operator's Manual*

12

Installing the Hydraulic Fluid and Checking for Leaks

Parts needed for this procedure:

1	Dipstick
–	Hydraulic fluid—25.5 L (6-3/4 US gallons)

Procedure

The hydraulic system capacity is now 25.5 L (6-3/4 US gallons).

Refer to the *Operator's Manual* for the correct fluid to use.

1. Remove the old dipstick from the hydraulic tank and discard it.
2. Slowly pour approximately 80% of the specified fluid into the tank.
3. Insert the new dipstick and check the level of the hydraulic fluid (Figure 43).
4. Slowly add the additional fluid to bring it to the **Full** mark.

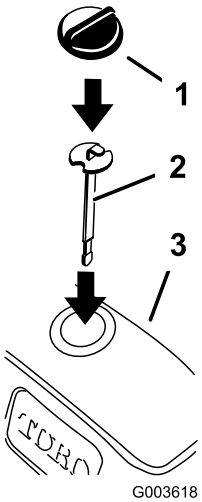


Figure 43

1. Hydraulic-tank cap
2. Dipstick
3. Hydraulic tank

5. Start the machine and let it run for 5 minutes.
6. Check for any leaks in the system with a piece of cardboard.

7. Install the console shroud and the seat (Figure 8).

   Important: **Install the P-clamp to ensure that the fuel hose is secure (Figure 9).**

8. Install the console.
9. Install the left front screen to the frame.
10. Install the front shroud to the frame with 4 flange-head screws.
11. Install the 4 flange-head screws securing the left wheel shroud to the frame (Figure 44).
12. Install the left rear tire (Figure 44).

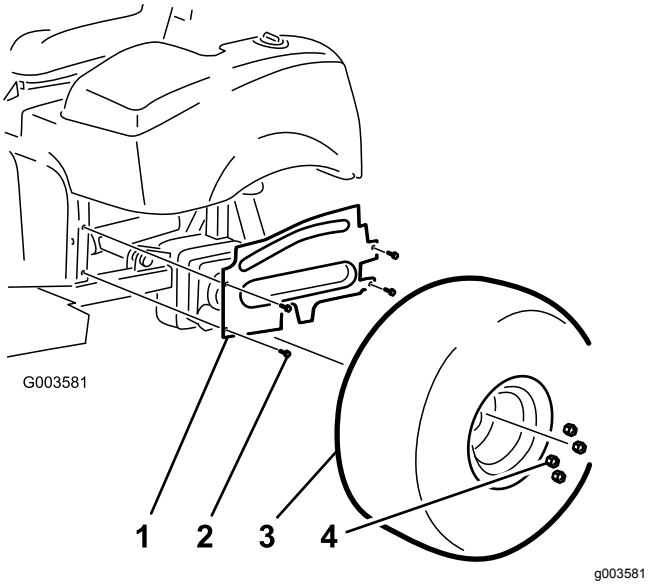
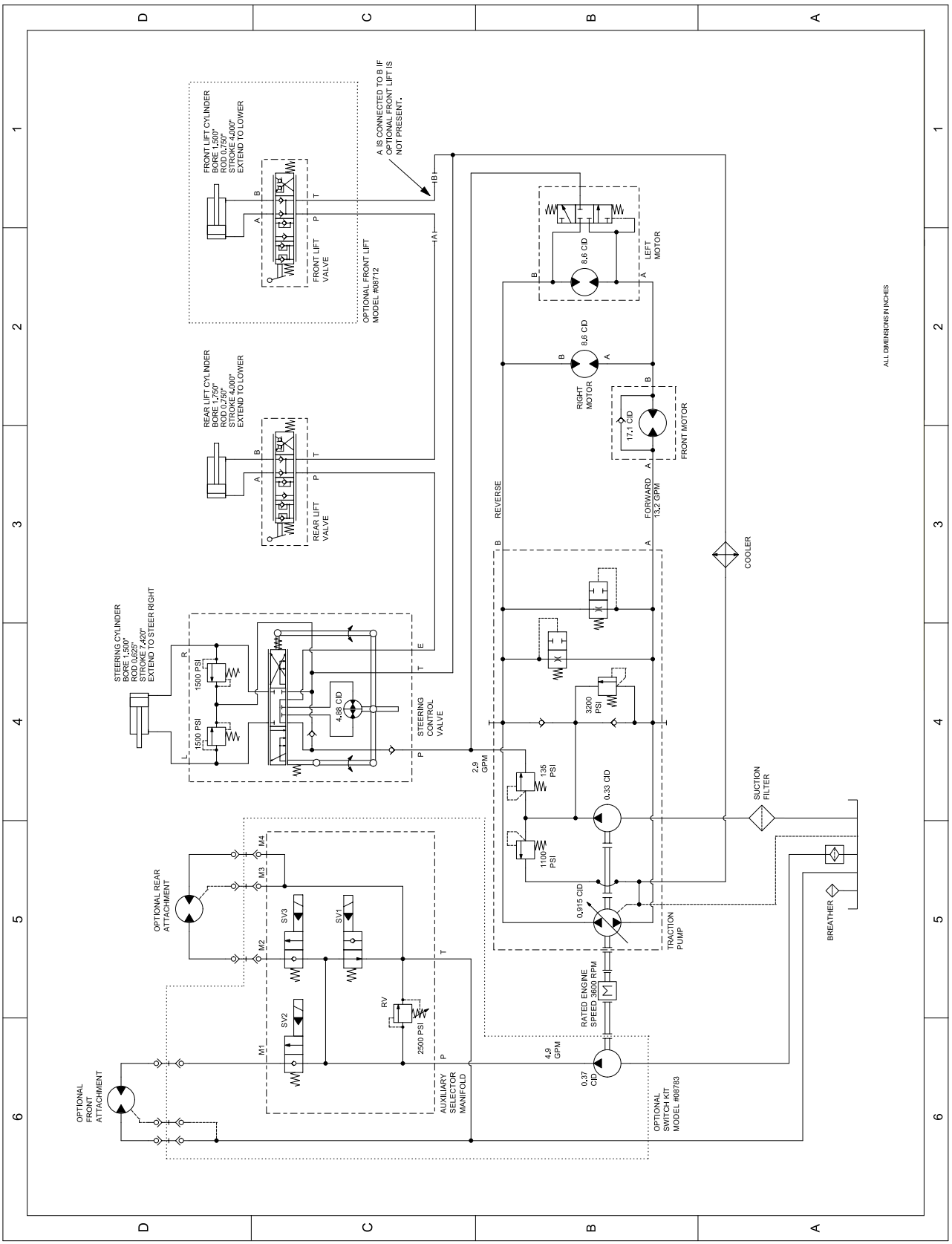


Figure 44

1. Left wheel shroud
2. Flange-head screws
3. Left tire
4. Nut

13. Lower the machine onto the ground.
14. Install the rear hitch shield (Figure 6).
15. Install the air-cleaner assembly (Figure 2 and Figure 3).

Schematics



g241136

Hydraulic schematic 137-3385 (Rev. A)

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
08783	400000000 and Up	Hydraulic Switch Kit	HYDRAULIC SWITCH KIT, SANDPRO 5040 08705	Hydraulic kit	2006/42/EC

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:



John Heckel
Sr. Engineering Manager
8111 Lyndale Ave. South
Bloomington, MN 55420, USA
January 8, 2018

Authorized Representative:

Marcel Dutrieux
Manager European Product Integrity
Toro Europe NV
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2260 Oevel
Belgium

Tel. +32 16 386 659

European Privacy Notice

The Information Toro Collects
Toro Warranty Company (Toro) respects your privacy. In order to process your warranty claim and contact you in the event of a product recall, we ask you to share certain personal information with us, either directly or through your local Toro company or dealer.

The Toro warranty system is hosted on servers located within the United States where privacy law may not provide the same protection as applies in your country.

BY SHARING YOUR PERSONAL INFORMATION WITH US, YOU ARE CONSENTING TO THE PROCESSING OF YOUR PERSONAL INFORMATION AS DESCRIBED IN THIS PRIVACY NOTICE.

The Way Toro Uses Information
Toro may use your personal information to process warranty claims, to contact you in the event of a product recall and for any other purpose which we tell you about. Toro may share your information with Toro's affiliates, dealers or other business partners in connection with any of these activities. We will not sell your personal information to any other company. We reserve the right to disclose personal information in order to comply with applicable laws and with requests by the appropriate authorities, to operate our systems properly or for our own protection or that of other users.

Retention of your Personal Information
We will keep your personal information as long as we need it for the purposes for which it was originally collected or for other legitimate purposes (such as regulatory compliance), or as required by applicable law.

Toro's Commitment to Security of Your Personal Information
We take reasonable precautions in order to protect the security of your personal information. We also take steps to maintain the accuracy and current status of personal information.

Access and Correction of your Personal Information
If you would like to review or correct your personal information, please contact us by email at legal@toro.com.

Australian Consumer Law

Australian customers will find details relating to the Australian Consumer Law either inside the box or at your local Toro Dealer.

The Toro Warranty

A Two-Year Limited Warranty

Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly warrant your Toro Commercial product ("Product") to be free from defects in materials or workmanship for two years or 1500 operational hours*, whichever occurs first. This warranty is applicable to all products with the exception of Aerators (refer to separate warranty statements for these products). Where a warrantable condition exists, we will repair the Product at no cost to you including diagnostics, labor, parts, and transportation. This warranty begins on the date the Product is delivered to the original retail purchaser.
* Product equipped with an hour meter.

Instructions for Obtaining Warranty Service

You are responsible for notifying the Commercial Products Distributor or Authorized Commercial Products Dealer from whom you purchased the Product as soon as you believe a warrantable condition exists. If you need help locating a Commercial Products Distributor or Authorized Dealer, or if you have questions regarding your warranty rights or responsibilities, you may contact us at:

Toro Commercial Products Service Department
Toro Warranty Company
8111 Lyndale Avenue South
Bloomington, MN 55420-1196

952–888–8801 or 800–952–2740
E-mail: commercial.warranty@toro.com

Owner Responsibilities

As the Product owner, you are responsible for required maintenance and adjustments stated in your *Operator's Manual*. Failure to perform required maintenance and adjustments can be grounds for disallowing a warranty claim.

Items and Conditions Not Covered

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. This warranty does not cover the following:

- Product failures which result from the use of non-Toro replacement parts, or from installation and use of add-on, or modified non-Toro branded accessories and products. A separate warranty may be provided by the manufacturer of these items.
- Product failures which result from failure to perform recommended maintenance and/or adjustments. Failure to properly maintain your Toro product per the Recommended Maintenance listed in the *Operator's Manual* can result in claims for warranty being denied.
- Product failures which result from operating the Product in an abusive, negligent, or reckless manner.
- Parts subject to consumption through use unless found to be defective. Examples of parts which are consumed, or used up, during normal Product operation include, but are not limited to, brake pads and linings, clutch linings, blades, reels, rollers and bearings (sealed or greasable), bed knives, spark plugs, castor wheels and bearings, tires, filters, belts, and certain sprayer components such as diaphragms, nozzles, and check valves, etc.
- Failures caused by outside influence. Conditions considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved fuels, coolants, lubricants, additives, fertilizers, water, or chemicals, etc.
- Failure or performance issues due to the use of fuels (e.g. gasoline, diesel, or biodiesel) that do not conform to their respective industry standards.
- Normal noise, vibration, wear and tear, and deterioration.
- Normal "wear and tear" includes, but is not limited to, damage to seats due to wear or abrasion, worn painted surfaces, scratched decals or windows, etc.

Parts

Parts scheduled for replacement as required maintenance are warranted for the period of time up to the scheduled replacement time for that part. Parts replaced under this warranty are covered for the duration of the original product warranty and become the property of Toro. Toro will make the final decision whether to repair any existing part or assembly or replace it. Toro may use remanufactured parts for warranty repairs.

Deep Cycle and Lithium-Ion Battery Warranty:

Deep cycle and Lithium-Ion batteries have a specified total number of kilowatt-hours they can deliver during their lifetime. Operating, recharging, and maintenance techniques can extend or reduce total battery life. As the batteries in this product are consumed, the amount of useful work between charging intervals will slowly decrease until the battery is completely worn out. Replacement of worn out batteries, due to normal consumption, is the responsibility of the product owner. Battery replacement may be required during the normal product warranty period at owner's expense. Note: (Lithium-Ion battery only): A Lithium-Ion battery has a part only prorated warranty beginning year 3 through year 5 based on the time in service and kilowatt hours used. Refer to the *Operator's Manual* for additional information.

Maintenance is at Owner's Expense

Engine tune-up, lubrication, cleaning and polishing, replacement of filters, coolant, and completing recommended maintenance are some of the normal services Toro products require that are at the owner's expense.

General Conditions

Repair by an Authorized Toro Distributor or Dealer is your sole remedy under this warranty.

Neither The Toro Company nor Toro Warranty Company is liable for indirect, incidental or consequential damages in connection with the use of the Toro Products covered by this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty. Except for the Emissions warranty referenced below, if applicable, there is no other express warranty. All implied warranties of merchantability and fitness for use are limited to the duration of this express warranty.

Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Note regarding engine warranty:

The Emissions Control System on your Product may be covered by a separate warranty meeting requirements established by the U.S. Environmental Protection Agency (EPA) and/or the California Air Resources Board (CARB). The hour limitations set forth above do not apply to the Emissions Control System Warranty. Refer to the Engine Emission Control Warranty Statement supplied with your product or contained in the engine manufacturer's documentation for details

Countries Other than the United States or Canada

Customers who have purchased Toro products exported from the United States or Canada should contact their Toro Distributor (Dealer) to obtain guarantee policies for your country, province, or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact the Toro importer.

374-0253 Rev D