

Chemical Pre-Mix Kit 2015 and After Multi-Pro 5800 Turf Sprayer

Model No. 41622—Serial No. 315000001 and Up

Installation Instructions

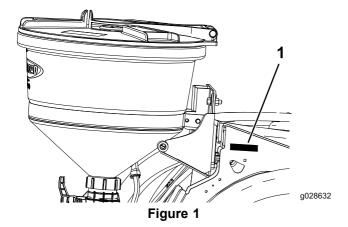
This kit is designed to aid in the mixing of chemicals in preparation for turf spray applications on well-maintained lawns in parks, golf courses, sports fields, and on commercial grounds. It is a dedicated attachment for a turf spray application vehicle and is intended to be used by professional, hired operators in commercial applications.

This product complies with all relevant European directives; for details, please see the separate product specific Declaration of Conformity (DOC) sheet.

Read this manual carefully to learn how to operate and maintain your product properly. The information in this manual can help you and others avoid injury and product damage. Although Toro designs and produces safe products, you are responsible for operating the product properly and safely.

You may contact Toro directly at www.Toro.com for product safety and operation training materials, accessory information, help finding a dealer, or to register your product.

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 illustrates the location of the model and serial numbers on the product.



1. Model and serial number plate

Model No		_
Serial No		

A WARNING

CALIFORNIA Proposition 65 Warning

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

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

Safety

This manual identifies potential hazards and has safety messages identified by the safety alert symbol (Figure 2), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



1. Safety alert symbol

This manual uses 2 words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

A WARNING

Chemical substances used in the spray system may be hazardous and toxic to you, bystanders, animals, plants, soils, or other property.

- Carefully read and follow the chemical warning labels and Material Safety Data Sheets (MSDS) for all chemicals used, and protect yourself according to the chemical manufacturer's recommendations. For example, use appropriate Personal Protective Equipment (PPE), including face and eye protection, gloves, or other equipment to guard against personal contact with the chemical.
- Keep in mind that there may be more than 1 chemical used, and information on each chemical should be assessed.
- Refuse to operate or work on the sprayer if this information is not available!
- Before working on a spray system, make sure that the system has been triple rinsed and neutralized according to the recommendations of the chemical manufacturer(s).
- Verify that there is an adequate supply of clean water and soap nearby, and immediately wash off any chemicals that contact you.

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 lost.



1. Crushing hazard, hand—read the instructions before servicing or performing maintenance.



1. Lock

2. Unlock

Installation

Loose Parts

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

Procedure	Description	Qty.	Use
	Eductor valve assembly	1	
	Flange nut (1/4 inch)	2	
	Fitting (1 inch)	1	
	Retainer pins	1	
1	Eductor valve bracket (The bracket may already be installed from a previous kit installation)	1	Install the eductor valve and hoses.
	Relief hose (10 3/4 inches)	1	
	Supply hose (18 1/2 inches)	1	
	Bypass hose (12 inches)	1	
	Support frame assembly	1	
	Locknut (3/8 inch)	1	
	Back plate assembly	1	
	Cradle arm, right	1	
	Cradle arm, left	1	
	Bushing	2	
2	Pivot pin	2	Assemble the frame.
_	Jam nut (3/8 inch)	2	
	Handle	2	
	Bolt (3/8 x 1-1/4 inches)	2	
	Set screw	2	
	Hair pin	2	
	Flat washer	2	
3	Spring	2	Install the latching components.
	Eductor	1	
	Handle	1	
	Flange-head bolt	2	
	Spring clamp	1	
	Bolt (#10-24 x 1/2 inch)	2	
	Locknut (#10-24)	2	
_	Bolt (3/8 x 1 inch)	4	
4	Locknut (3/8 inch)	4	Install the eductor.
_	Flange-head nut	2	
	Hex-head bolt	3	
	Latch post	1	
	Latch handle	1	
	T-valve	1	
	Gasket	1	
	Worm-screw clamp	1	

Procedure	Description	Qty.	Use	
	Bulkhead	1		
	O-ring	1		
	Locking ring	1		
	Retaining fork	2		
_	Forward hose assembly	1	Install the forward hose.	
5	Gasket	1	install the forward nose.	
	Worm-screw clamp	1		
	R-clamp	1		
	Carriage bolt (5/16 x 1 inch)	1		
	Lock nut (5/16 inch)	1		
	Supply hose	1		
6	Gasket	1		
	Worm-screw clamp	1	Install the augusty have	
	Hose clamp	1	Install the supply hose.	
	Hose adapter	1		
	Retainer pin	1		

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



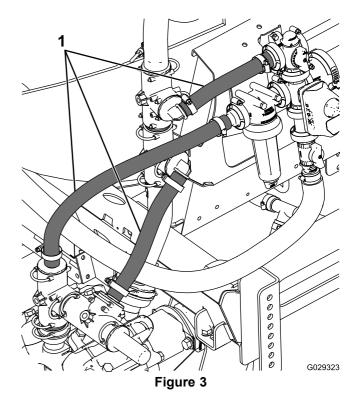
Installing the Eductor Valve and Hoses

Parts needed for this procedure:

1	Eductor valve assembly
2	Flange nut (1/4 inch)
1	Fitting (1 inch)
1	Retainer pins
1	Eductor valve bracket (The bracket may already be installed from a previous kit installation)
1	Relief hose (10 3/4 inches)
1	Supply hose (18 1/2 inches)
1	Bypass hose (12 inches)

Procedure

- 1. Move to the rear of the machine and locate the boom valve assembly on the boom valve mount bracket.
- 2. Remove and discard the 3 hoses shown in Figure 3 but keep the retainer pins.



- 1. Remove and discard
- 3. Secure the eductor valve bracket to the boom valve assembly using the bolts and nuts that secure the pressure filter to the boom valve bracket; refer to Box A of Figure 4.

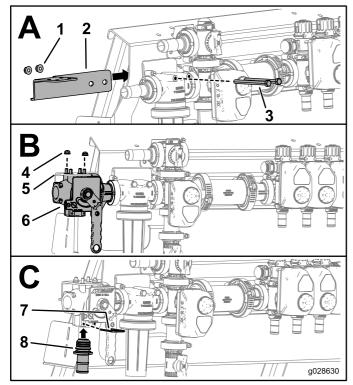
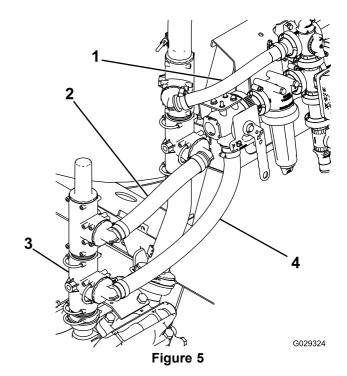


Figure 4

- 1. Nuts (existing)
- 2. Eductor valve bracket
- 3. Bolts (existing)
- 4. Flange nuts (1/4 inch)
- 5. Eductor valve bracket
- 6. Eductor valve assembly
- 7. Retainer pin
- 8. Fitting (1 inch)
- 4. Install the eductor valve as shown in Box B of Figure 4.
- 5. Install the 1-inch fitting into the eductor valve and secure it with a new retainer pin; refer to box C of Figure 4.
- 6. Rotate the hose tee near the eductor valve 45° and install the new bypass hose (Figure 5).



- 1. Bypass hose
- 2. Relief hose
- 3. Pump tee
- 4. Supply hose
- 7. Remove the horizontal hose tee from the side of the pump tee and attach it to the top of the pump tee (Figure 5).
- 8. Connect the supply hose to the side of the pump tee and the bottom of the eductor valve (Figure 5).
- 9. Connect one end of the relief hose to the upper pump tee and the other to the lower tee near the eductor (Figure 5).

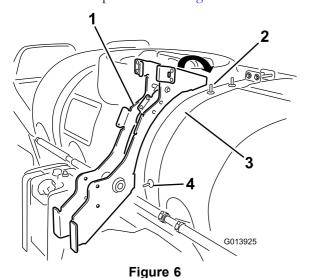
Assembling the Frame

Parts needed for this procedure:

1 Support frame assembly 1 Locknut (3/8 inch) 1 Back plate assembly 1 Cradle arm, right
1 Back plate assembly
1 Cradle arm, right
. 3
1 Cradle arm, left
2 Bushing
2 Pivot pin
2 Jam nut (3/8 inch)
2 Handle
2 Bolt (3/8 x 1-1/4 inches)
2 Set screw
2 Hair pin
2 Flat washer

Procedure

- 1. Remove the locknuts securing the wire lid stop to the strap. Remove the wire lid stop. Retain all parts.
- 2. Locate the main support frame in loose parts.
- 3. Install the frame over the tank strap aligning the lower hole in the frame with the exposed bolt in the side of the tank strap and the upper hole with the upper bolt in the tank strap as shown in Figure 6.

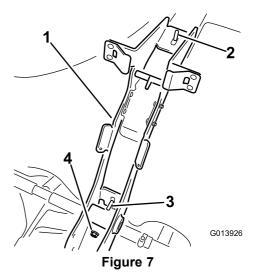


- Main support frame
 - ort frame
- 2. Exposed bolt, top

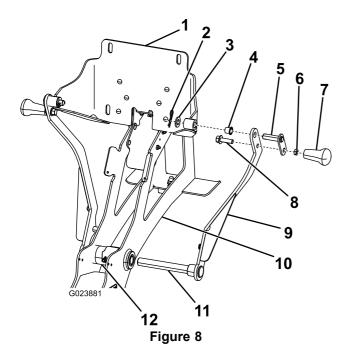
assembly

- 3. Tank strap, rear
- 4. Exposed bolt, side

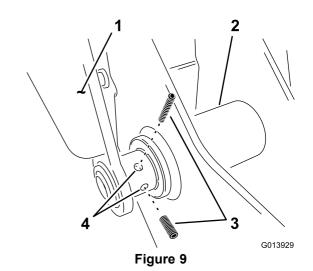
4. Install a lock nut over the lower exposed bolt passing through the frame to secure it to the tank strap (Figure 7).



- Main support frame assembly
- 2. Exposed bolt, top
- 3. Exposed bolt, side
- 4. Lock nut (3/8 inch)
- 5. Install the wire tank lid stop removed previously over the protruding threads of the carriage bolts in the upper portion of the tank strap. The bow should face forward to catch the main tank lid when opened.
- 6. Secure the lid stop and the upper portion of the eductor frame to the tank assembly with two lock nut removed previously. Torque the fasteners to 19-24 N-m (14-18 ft-lb).
- 7. Assemble the eductor cradle to the frame:



- 1. Back plate assembly
- 2. Hair pin
- 3. Flat washer
- 4. Bushing
- 5. Pivot pin
- 6. Jam nut (3/8 inch)
- 7. Handle
- 8. Bolt (3/8 x 1-1/4 inches)
- 9. Right cradle arm
- 10. Main support frame assembly
- 11. Cradle arm axle
- 12. Pivot housing
- A. Start by installing the right cradle arm to the frame. The right cradle arm is denoted by have the long axle.
- B. Insert the axle through the hinge shaft.
- C. Loosely mate the left arm to the exposed axle on the other side of the frame.
- D. Install a bushing into the outside hinge holes of the back plate assembly.
- E. Move the back plate assembly into position between the upper holes in each arm.
- F. Install a pivot pin through the upper hole in the arm and the hinge hole with the bushing in the back plate assembly.
- G. Install the handles to the lower holes in the arms. Secure with a bolt (3/8 x 1-1/4 inches) and jam nut (3/8 inch).
- H. Repeat for the opposing arm.
- I. Install a set screw to the left arm at the lower hinge point (Figure 9). Do not tighten at this time to allow for adjustment of the cradle system.



- 1. Cradle arm, left
- 2. Pivot housing
- 3. Set screw
- 4. Holes in the cradle arm

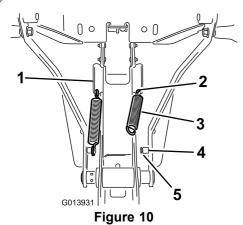
Installing the Latching Components

Parts needed for this procedure:

2 Spring

Installing the Springs

1. Install the spring in the hole in the lower end of the angled tab on the side of the frame assembly (Figure 10).



1. Angled tab

Post

- 2. Hole in tab
- 5. Groove

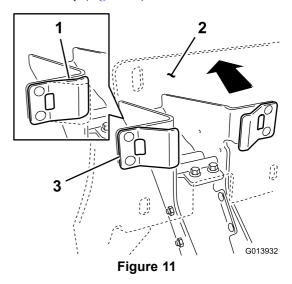
- 3. Spring
- 2. Hook one end of the spring into the hole and the other end onto the spring post (Figure 10).
- 3. Make sure that the spring end is seated properly in the groove in the post (Figure 10).
- 4. Repeat steps 1 through 3 for the other side.
- 5. Tighten the 2 set screws in the left arm.

Adjusting the Tongue Position

Move the cradle assembly into the upper Transport position to adjust the tongue.

- 1. Lift up on the handles to raise the assembly while slightly tipping it toward the tank.
- 2. Guide the tongue under the crossbar with the welded tab in the upper portion of the frame assembly.
- 3. Let the assembly pivot down, toward the tank.
- 4. Making sure that the plastic stops are in contact with the spring tabs, apply enough pressure against the back

plate assembly of the cradle to compress the spring tabs midway (Figure 11).



- 1. Spring tab under pressure 3. Spring tab
- 2. Back plate
- 5. While maintaining the pressure on the back plate, slide the tongue toward you until the lip of the tongue plate contacts the crossbar (Figure 12).

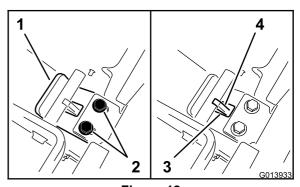


Figure 12

- 1. Tongue-plate lip
- . Fasteners
- 3. Slot in plate
- 4. Welded tab
- 6. Tighten the fasteners in the tongue to secure its position, then release pressure on the back plate.

Note: Check to see if there is any play in the cradle. It should be held snug to the frame assembly. You can repeat this procedure once the eductor is installed to adjust the locked position.



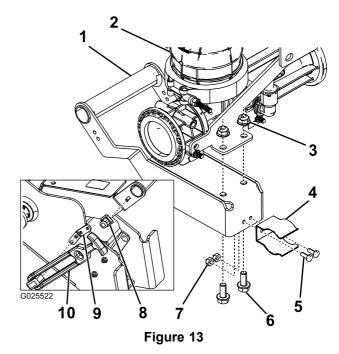
Installing the Eductor

Parts needed for this procedure:

1	Eductor
1	Handle
2	Flange-head bolt
1	Spring clamp
2	Bolt (#10-24 x 1/2 inch)
2	Locknut (#10-24)
4	Bolt (3/8 x 1 inch)
4	Locknut (3/8 inch)
2	Flange-head nut
3	Hex-head bolt
1	Latch post
1	Latch handle
1	T-valve
1	Gasket
1	Worm-screw clamp

Procedure

1. Attach the latch post to the eductor handle using a hex-head bolt (Figure 13).



- 1. Handle
- 2. Eductor
- 3. Flange-head nut
- 4. Spring clamp
- 5. Bolt (#10-24 x 1/2 inch)
- 6. Flange-head bolt
- 7. Locknut (#10-24)
- 8. Latch post
- 9. Extension bracket
- 10. Latch handle
- 2. Attach the extension bracket to the main support frame using 2 hex-head bolts (Figure 13).
- 3. Connect the latch handle to the extension bracket (Figure 13).
- 4. Attach the handle to the eductor using 2 flange-head bolts and flange-head nuts (Figure 13).
- 5. Lower the cradle into the down position.
- 6. Align the holes in the eductor assembly mount plate with the slotted holes in the back plate of the cradle assembly (Figure 14).

Note: The fasteners need to be loose enough so that they can travel in the slot when the eductor is initially raised up into the transport position. This allows for further adjustment.

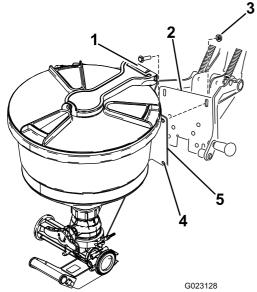


Figure 14

- 1. Bolt (3/8 x 1 inch)
- 2. Back plate
- 3. Locknut (3/8 inch)
- 4. Eductor assembly mount hole
- 5. Eductor assembly mount
- 7. Install 4 bolts (3/8 x 1 inch) and locknuts (3/8 inch) to mount the eductor.

Note: Do not tighten the bolts at this time.

- 8. To carefully raise the eductor in the cradle assembly up to the transport position, do the following:
 - A. Lift the lower handle to raise the eductor while slightly tipping it toward the tank.
 - B. Guide the tongue under the crossbar with the welded tab in the upper portion of the frame assembly.
 - C. Then pivot the assembly toward the tank, taking care to line up the spring clamp with the large pivot housing in the lower portion of the frame.
 - D. Push until the clamp snaps over the pivot housing as shown in Figure 15.

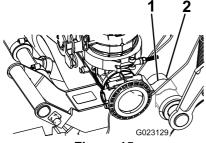


Figure 15

- 1. Spring clamp
- 2. Pivot housing
- 9. Check the eductor height on the cradle back plate and adjust it as necessary.

10. Tighten the fasteners securing the eductor to the cradle.

Note: Torque the fasteners to 36-45 N-m (27-33 ft-lb).

- 11. Tighten the 2 set screws on the left pivot arm.
- 12. Check the overall position of the eductor assembly on the tank strap.

Note: The eductor should be upright, in the transport position. Loosen the lower locknut on the frame assembly securing it to the tank. Do not remove the locknut. Adjust the position as necessary and tighten the locknut. Make sure that the strap is secure to the tank.

13. Connect the T-valve to the eductor assembly using a gasket and a worm-screw clamp (Figure 16).

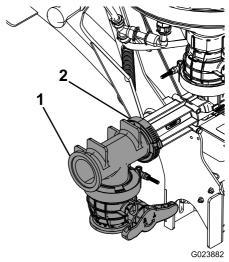


Figure 16

1. T-valve

2. Gasket and worm-screw clamp



Installing the Forward Hose

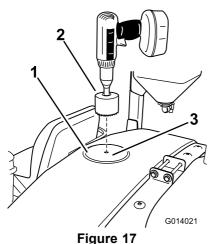
Parts needed for this procedure:

1	Bulkhead
1	O-ring
1	Locking ring
2	Retaining fork
1	Forward hose assembly
1	Gasket
1	Worm-screw clamp
1	R-clamp
1	Carriage bolt (5/16 x 1 inch)
1	Lock nut (5/16 inch)

Drilling the Tank

1. Locate the forward location on the top of the tank as shown in Figure 17.

Note: Locate the drill mark in the center of the molded circle.



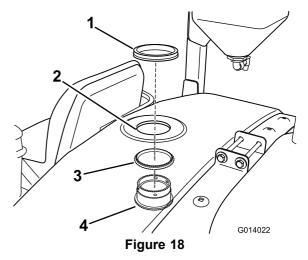
- 1. Molded circle
- Drill point, center of the molded circle
- 2. Drill with hole saw
- 2. Use a 9 cm (3-5/8 inch) hole saw to drill a hole at the drill mark (Figure 17).

Note: You will need to increase the diameter slightly to accommodate the bulkhead.

3. After drilling the hole, remove any rough edges in the cut, and remove any debris that entered the main tank during the cutting process.

Installing the Bulkhead

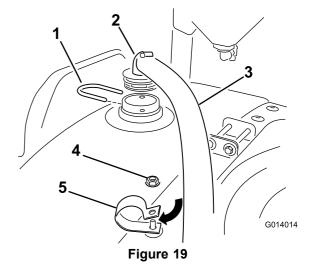
- 1. Open the main tank lid and remove the filter screen.
- 2. Install the bulkhead and the O-ring up from inside the tank through the previously cut opening (Figure 18).



- 1. Locking ring
- 3. O-ring
- 2. Hole, cut previously
- 4. Bulkhead
- 3. Secure the bulkhead to the tank with the locking ring.

Installing the Hose

- 1. Install an R-clamp over the exposed threads of the front strap's side bolt.
- 2. Install the hose end with the 90° fitting to the previously installed bulkhead using a retaining fork (Figure 19).



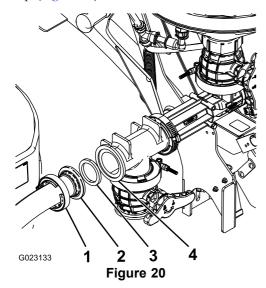
- Retaining fork
- 4. Lock nut
- 2. Eductor hose assembly
- R-clamp and locknut (5/16 inch)

- 3. Hose
- 3. Feed the open end of the hose down and through the R-clamp to the eductor.

4. Install a lock nut over the bolt in the R-clamp and finger tighten at this time (Figure 19).

Note: This will allow for later adjustment.

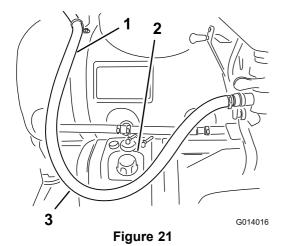
5. Attach the other end of the hose to the forward-facing opening of the eductor using a gasket and worm-screw clamp (Figure 20).



- 1. Worm-screw clamp
- 3. O-ring

2. Hose

- 4. Eductor
- 6. Raise and lower the eductor to ensure that the hose does not catch on anything.



- 1. Eductor hose
- 3. Slack in the hose

2. Tank



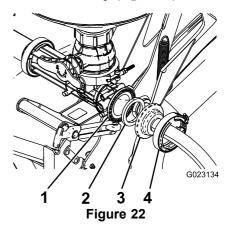
Installing the Supply Hose

Parts needed for this procedure:

1	Supply hose
1	Gasket
1	Worm-screw clamp
1	Hose clamp
1	Hose adapter
1	Retainer pin

Procedure

1. Secure the end of the supply hose without a bulkhead to the rear opening on the eductor valve using a gasket and worm-screw clamp (Figure 22).



- 1. Eductor
- 2. O-ring

- 3. Hose
- 4. Worm-screw clamp
- 2. Route the open end of the supply hose rearward past the pump and turn back toward the valve assembly under the relief valve.
- 3. Staying under the agitation hose but above the left side mount for the center boom, route the hose upward to the eductor valve assembly.
- 4. Slide a loosened hose clamp over the open end of the hose (Figure 23).

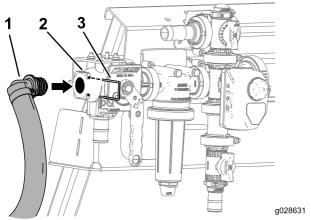


Figure 23

- 1. Supply hose
- 3. Retainer pin
- 2. Eductor valve assembly
- 5. Install the open end of the hose into the eductor valve and secure the hose using a retainer pin (Figure 23).
- 6. Slide the hose clamp over the fitting barb, and tighten the clamp to secure the fitting to the hose.



Finishing the Installation

Parts needed for this procedure:

1 Suction lance and hose (optional)

Procedure

Note: The suction lance and hose are optional accessories. Contact your Authorized Toro Distributor for more information.

Retain the suction lance and hose for later use. Read and retain the remaining documentation on using the Chemical Pre-Mix Kit.

Operation

A CAUTION

Chemicals are hazardous and can cause personal injury.

- Read the directions on the chemical labels before handling the chemicals and follow all manufacturer recommendations and precautions.
- Keep chemicals away from your skin. Should contact occur, wash the affected area thoroughly with soap and clean water.
- Wear goggles and any other protective equipment recommended by the chemical manufacturer.

Controls

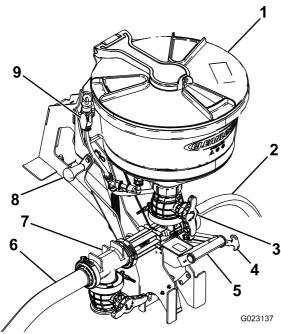


Figure 24

- 1. Lid
- Supply hose
- 3. Main valve
- Transport strap
- 5. Lower handle
- 6. Tank hose
- T-valve
- 8. Upper handle
- 9. Flush valve

Lid

Rotate the lid counter clockwise to open it. Close the lid completely before turning it clockwise to lock it. You must close the lid and lock it before it is raised to the Transport position.

Handles and Transport Strap

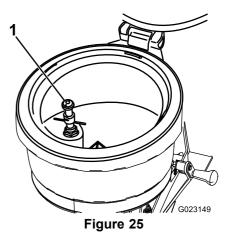
Use the upper and lower handles to raise and lower the eductor and to lock it into the Transport position.

Main Valve

Use the main valve to introduce chemicals from the eductor into the hose leading to the main tank.

Bottle Rinse

The bottle rinse is located inside the eductor tank. Once the eductor switch is on, the bottle rinse has pressure and is supplied by the contents of the main tank. To use the bottle rinse, invert the chemical container over the spout and use the rim of the container to depress the rinse. Press down to actuate the spout and rinse the interior of the chemical container.



1. Bottle rinse

Flush Valve

The flush valve can rinse the inside of the eductor tank. Once the eductor switch is on, the flush valve will have pressure and is supplied by the contents of the main tank. To open the valve, turn the handle 90° counterclockwise. This will in introduce water to the tank. Turn the handle 90° clockwise to close the valve.

Raising and Lowering the Eductor

Lowering the Eductor

- 1. Unlatch the rubber transport strap.
- 2. Place a hand on the lower handle and the other hand on the upper handle.
- 3. Lift the eductor away from the vehicle until the spring clamp disengages.
- 4. Guide the eductor as it lowers to the operating position.

Raising the Eductor

- 1. Lift the lower handle to raise the eductor while slightly tipping it toward the tank.
- 2. Guide the tongue under the crossbar with the welded tab in the upper portion of the frame assembly.
- 3. Pivot the assembly toward the tank, taking care to line up the spring clamp with the large pivot housing in the lower portion of the frame.
- 4. Push until the clamp snaps over the pivot housing.
- 5. Secure the handle with the transport strap.

Protecting the Turf when Operating a Stationary Machine

Important: Under some conditions, heat from the engine, radiator, and muffler can potentially damage the grass when operating the sprayer in a stationary mode. Stationary modes include tank agitation, hand spraying, or using a walking boom.

Take the following precautions:

- Avoid stationary spraying when conditions are very hot and/or dry, as turf can be more stressed during these periods.
- Avoid parking the machine on the turf while stationary spraying. Park the machine on a cart path whenever possible.
- Minimize the amount of time that the machine is left running over any particular area of turf. Both time and temperature affect how much the grass may be damaged.
- Set the engine speed as low as possible to achieve the desired pressure and flow. This will minimize the heat generated and the air velocity from the cooling fan.
- Allow heat to escape upward from the engine compartment by raising the engine guard/seat assemblies during stationary operation rather than being forced out under the vehicle. Refer to your *Operator's Manual* for more information on raising the seat assemblies.

Note: Use a heat-shield blanket underneath the vehicle during stationary operation for additional heat protection. Contact your Authorized Toro Distributor to obtain a Toro heat-shield blanket kit for turf sprayers.

Using the Eductor

The following procedure assumes the following operational states exist for the standard tank agitation: The sprayer is started and running, the pump is engaged and set to the desired pressure, and the throttle is in the mid-range position.

Starting the Eductor

Note: Close the eductor hopper valve and hopper rinse ball valve(s) before starting the eductor.

- 1. Lower the eductor.
- 2. Open the lid to check for foreign objects which may hinder performance or contaminate the system.
- 3. Close and lock the lid by turning the cover clockwise.
- 4. Turn the eductor valve to open the eductor circuit.
- 5. Open the hopper valve (red handle) located on the bottom of the hopper.
- Unlock and open the lid slowly by turning the cover counterclockwise.

Loading Liquid or Powdered Chemical into the Hopper

1. Pour the required amount of chemical into the hopper.

Note: Avoid splashing liquids or powdered chemicals outside of the hopper.

- 2. Rinse the empty chemical containers if applicable.
- 3. Place the container opening over the container rinse valve and press down.

Note: This will activate the rinse valve and rinse the container.

- 4. Close and lock the lid by turning the cover clockwise.
- 5. Open the rinse ball valve and turn it on for 20 seconds to rinse the hopper.

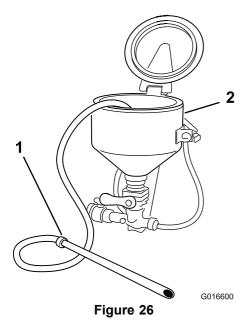
Note: Close the ball valve and return the locking band to the locked position.

- 6. Open the lid and inspect for chemical residue.
- 7. Repeat step 4 as necessary.
- 8. Close the hopper valve.

Loading Chemicals with the Optional Suction Lance

Note: Lance suction depends upon eductor pressure and flow. For best results, use pressure up to 10 bar (150 psi) maximum.

1. Insert the suction lance body into the eductor until the O-ring seals on the hopper drain.



- 1. Suction lance
- 2. Eductor
- 2. Use the free end of the lance to pierce the bag or container to vacuum powdered or liquid chemical.
- 3. Place the lance end into a clean container of water to rinse the lance assembly.
- 4. Remove the lance body from eductor and drain any remaining fluid into the hopper.
- 5. Close the hopper valve (red handle).

Shutting down the Eductor

1. Close all the valves.

Note: Close the hopper valve first.

- 2. Remove all chemical residue.
- 3. Close and lock the hopper lid by turning the cover clockwise.
- 4. Return the agitation valve to the fully open position.
- 5. Close the eductor valve.
- 6. Return the eductor to the transport position, and lock it with the transport strap.

Troubleshooting

Problem	Possible Cause	Corrective Action
The eduction rate is low.	There is a lack of flow and pressure to the eductor system.	Increase the pump speed. Turn the agitation throttling toward the closed position.
	2. The outlet/Inlet hose is obstructed.	Disassemble and remove any obstructions.
	Fittings with elbows or other flow-restrictions are in the eductor outlet.	Use only sweeping turns with flexible hoses.
There is no rinsing or flushing action.	The bottle rinse nozzle is plugged or clogged.	Disassemble the rotary portion of the nozzle from the lower valve assembly and back flush until the nozzle ports are clear of debris.
	2. The flush tee is plugged or clogged.	Disassemble the flush tee and clean until the nozzle ports are clear of debris.
There are leaks at the fittings.	The fittings are damaged.	Check for cracks in the fitting. Replace the fitting if necessary.
	2. The thread sealant is worn.	Disassemble and seal the joint with joint seal compound if a leak occurs on the threads.

Notes:

International Distributor List

Distributor:	Country:	Phone Number:	Distributor:	Country:	Phone Number:
Agrolanc Kft	Hungary	36 27 539 640	Maquiver S.A.	Colombia	57 1 236 4079
Balama Prima Engineering Equip.	Hong Kong	852 2155 2163	Maruyama Mfg. Co. Inc.	Japan	81 3 3252 2285
B-Ray Corporation	Korea	82 32 551 2076	Mountfield a.s.	Czech Republic	420 255 704 220
Casco Sales Company	Puerto Rico	787 788 8383	Mountfield a.s.	Slovakia	420 255 704 220
Ceres S.A.	Costa Rica	506 239 1138	Munditol S.A.	Argentina	54 11 4 821 9999
CSSC Turf Equipment (pvt) Ltd.	Sri Lanka	94 11 2746100	Norma Garden	Russia	7 495 411 61 20
Cyril Johnston & Co.	Northern Ireland	44 2890 813 121	Oslinger Turf Equipment SA	Ecuador	593 4 239 6970
Cyril Johnston & Co.	Republic of Ireland	44 2890 813 121	Oy Hako Ground and Garden Ab	Finland	358 987 00733
Equiver	Mexico	52 55 539 95444	Parkland Products Ltd.	New Zealand	64 3 34 93760
Femco S.A.	Guatemala	502 442 3277	Perfetto	Poland	48 61 8 208 416
ForGarder OU	Estonia	372 384 6060	Pratoverde SRL.	Italy	39 049 9128 128
G.Y.K. Company Ltd.	Japan	81 726 325 861	Prochaska & Cie	Austria	43 1 278 5100
Geomechaniki of Athens	Greece	30 10 935 0054	RT Cohen 2004 Ltd.	Israel	972 986 17979
Golf international Turizm	Turkey	90 216 336 5993	Riversa	Spain	34 9 52 83 7500
Guandong Golden Star	China	86 20 876 51338	Lely Turfcare	Denmark	45 66 109 200
Hako Ground and Garden	Sweden	46 35 10 0000	Solvert S.A.S.	France	33 1 30 81 77 00
Hako Ground and Garden	Norway	47 22 90 7760	Spypros Stavrinides Limited	Cyprus	357 22 434131
Hayter Limited (U.K.)	United Kingdom	44 1279 723 444	Surge Systems India Limited	India	91 1 292299901
Hydroturf Int. Co Dubai	United Arab Emirates	97 14 347 9479	T-Markt Logistics Ltd.	Hungary	36 26 525 500
Hydroturf Egypt LLC	Egypt	202 519 4308	Toro Australia	Australia	61 3 9580 7355
Irrimac	Portugal	351 21 238 8260	Toro Europe NV	Belgium	32 14 562 960
Irrigation Products Int'l Pvt Ltd.	India	0091 44 2449 4387	Valtech	Morocco	212 5 3766 3636
Jean Heybroek b.v.	Netherlands	31 30 639 4611	Victus Emak	Poland	48 61 823 8369

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.

TORO_®

Toro General Commercial Product 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.

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