



MODEL NO. 41572

OPERATOR'S
INSTRUCTIONS

FOAM MARKER KIT

for MULTI PRO® 5500, 1200, 1250 & 300T TURF SPRAYER

To assure maximum safety, optimum performance, and to gain knowledge of the product, it is essential that you or any other operator of this equipment read and understand the contents of this manual before the vehicle engine is ever started. Pay particular attention to the **SAFETY INSTRUCTIONS** highlighted by the triangular safety alert symbol.



The safety alert symbol means **CAUTION**, **WARNING**, or **DANGER** — personal safety instruction. Failure to comply with the instruction may result in personal injury.

SAFETY INSTRUCTIONS

Keep this Operator's Manual in the plastic tube behind the operator seat.

It is very important that all persons operating this equipment have easy access to these instructions at all times.

Carefully read and follow the Installation Instructions that are provided with this equipment and the Safety Instructions in the MULTI PRO® Operator's Manual.



RECOGNIZE SAFETY INFORMATION This safety-alert symbol is used to call attention to a **dangerous** situation, which could result in serious injury or death to the operator or a bystander. Safety, mechanical and some general information in this manual are emphasized. **DANGER**, **WARNING** and **CAUTION** identify safety messages. Whenever the triangular safety symbol appears, it is followed by a safety message that must be read and understood. For more details concerning safety, read the Safety Instructions that follow. **IMPORTANT** identifies special mechanical information and **NOTE** identifies general information worthy of special attention.

These instructions are provided as a guide for the safe operation and maintenance of this equipment. However, the operator's personal safety, as well as those persons in the work area, will depend on the careful actions and good judgement of the operator. **To reduce the potential for injury or death, comply with the following safety instructions.**

BEFORE OPERATING:

1. Operate this accessory only after reading and understanding the contents of this manual. A replacement manual is available by sending complete model and serial number to: Hahn Equipment Co., A subsidiary of The Toro Company, 1625 N. Garvin, Evansville, IN 47711-4596.

2. Learn how to operate the Foam Marker and how to use the controls properly. Do NOT let anyone operate this equipment without first receiving thorough instructions.

3. Keep all shields, safety devices, and decals in place. If a shield, safety device, or decal is malfunctioning, illegible or damaged, repair or replace it before operating the machine.

4. Chemicals can injure persons, animals, plants, soils or other property. To eliminate environmental damage and personal injury:

A. Select the proper chemical for the job.

B. Follow the manufacturer's instructions on chemical container labels. Apply and handle chemicals as recommended.

C. Handle and apply chemicals with care. Wear goggles and other necessary protective equipment. Handle chemicals in well ventilated areas. Never smoke while handling chemicals.

D. Properly dispose of chemical container and unused chemicals.

SAFETY INSTRUCTIONS AND DECALS

WHILE OPERATING:

5. Make certain everyone is clear of the machine before starting the engine.
6. If equipment begins to vibrate abnormally, stop **immediately**. Shut off the vehicle engine and disengage all power. Repair all damage before commencing operation.
7. **Before** servicing or making any adjustments to the Foam Marker:
 - A. Stop the vehicle and set the parking brake.
 - B. Shut off the vehicle's engine and remove key from ignition.
 - C. Disengage all power and wait until all moving parts have stopped.



Part No. 94-7287; Located on the Bottom
Left Corner of the Compressor Cover

8. Keep all nuts, bolts and other fasteners tightened securely. Replace any shields removed during servicing or adjustments.
9. Safety and instruction decals are installed on this equipment. If any become damaged or illegible, replace them. Decal part numbers are listed in the parts catalog. Order replacements from your Authorized Toro Distributor.
10. To be sure of optimum performance and safety, always purchase genuine TORO replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous. Altering this equipment in any manner may affect the machine's operation, performance, durability or its use may result in injury or death. Such use could void the product warranty of The TORO Company.



Part No. 94-7275; Located on the Top
Center of the Compressor Cover

CONTROLS

RIGHT BOOM SWITCH: Activates the compressor, generating a flow of foam to the Right Boom Section.

LEFT BOOM SWITCH: Activates the compressor, generating a flow of foam to the Left Boom Section.

NOTE: Foam can be dropped simultaneously from both Boom sections.

SIGHT GAUGE: Hose located on side of Tank. Indicates level of solution in Tank.

FOAM DENSITY ADJUSTMENT VALVE: Controls the consistency of the foam solution. DECREASING, lowers the amount of water, creating markers which will "hold shape". INCREASING, will create a more watery marker. **Note:** A slightly watery marker consistency may be helpful on a windy day.

PRESSURE RELIEF VALVE: When in upright position, relieves pressure in Foam Solution Tank.

OPERATION

FILLING AND ADJUSTING:

1. Ensure the Right and Left Boom Switches located on the console are in the OFF position.

CAUTION

The contents of the Foam Marker Tank are under pressure. Loosening fittings under this condition could result in personal injury.

- To relieve pressure from tank, flip the Pressure Relief Valve UP (as shown on page 2, decal # 94-7275)

2. Flip the Pressure Relief Valve to the upright position. (Fig. 1)

3. Pull up on the "Lid Clamp", turn the Lid 90°, and remove from the tank.

4. Pour water through opening in top of tank. Add proper amount of foam concentrate as recommended by the manufacturer. **DO NOT EXCEED 2-1/2 GAL. (9.46 LITERS) OF SOLUTION IN TANK!**

NOTE: Extreme PH levels (hardness/softness) of water will affect the amount of foam concentrate needed.

5. Reinstall the Lid of the Solution Tank. Make sure the Lid is positioned properly for a tight seal, and push down the Lid Clamp.

6. Close the Pressure Relief Valve.

7. For first time operation, open the Foam Density Adjustment Valve 1/8 to 1/4 turn. (Fig. 2)

8. Start marking system and make a test pattern on the ground. When first starting the marker system it can take 1 to 2 minutes to fill the line before foam will flow from the boom(s).

NOTE: Foam left in the line for more than 2 hours may become watery. Before next application, allow the system to run for 1 to 2 minutes to clear the lines of excess water.

NOTE: The Mixer Tee (Fig. 3) can flood if the solution to air mixture is too rich, producing watery foam.

If foam is too dry, it will flow in unsteady high pressure surges.

If a flooding condition exists:

- A. Close the Foam Density Adjustment Valve completely. Operate for 2 minutes.

- B. Slowly reopen valve 1/8 to 1/4 turn.

C. Wait 1 minute, then check the consistency of the foam. Adjustments may be required to achieve desired foam marker consistency. Refer to **FOAM DENSITY ADJUSTMENT VALVE pg. 2**

9. When foam drops are at desired consistency, spray by aligning Boom extention to foam marked trail(s).

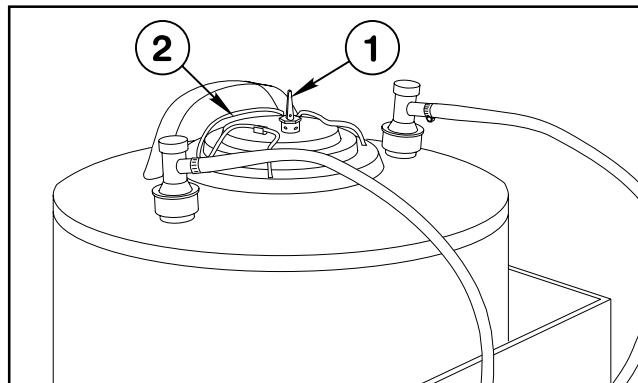


Figure 1

1. Pressure Relief Valve

2. Lid Clamp

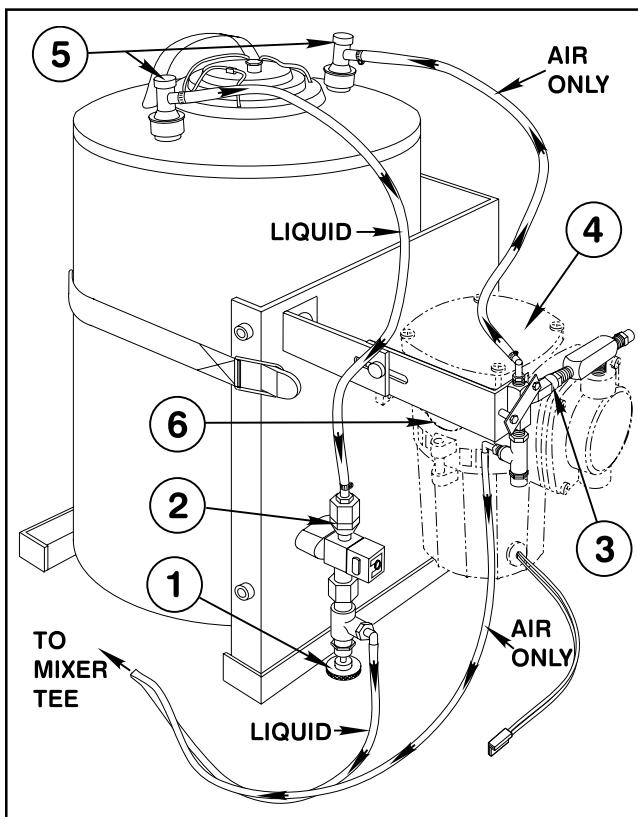


Figure 2

1. Foam Density Adj. Valve

2. Strainer

3. Check Valve

4. Compressor

5. Couplers

6. Air Filter

MAINTENANCE

EVERY 100 HOURS (Fig. 2):

1. Inspect the hose between the Foam Tank and Compressor for water accumulation. No water should be found in this hose. (If a problem exists, remove the brass Check Valve in the Tee on top of the Compressor. Inspect, clean, or replace as needed.)
2. Remove and clean the Strainer at top of Solenoid Valve next to the Compressor.
4. Check Compressor Air Filter for cleanliness.
5. Make sure the bottom of the compressor is free and clear of debris.

EVERY 250 HOURS (Fig. 2)

1. Replace compressor air filter.
2. Check inside of Tank for accumulation of debris, and rinse if needed.

EVERY 500 HOURS (Fig. 3):

1. Replace the Plastic Check Valve at the "Y" near the Mixer Tee Assembly located at the rear of the vehicle, on the Center Boom. (FIG. 3)

For Service Parts, refer to the Set-up and Parts Manual supplied with the Foam Marker Kit.

STORAGE (Fig. 2):

Before storing the Multi Pro® Turf Sprayer:

1. Remove the Couplers on the top of the Tank.
2. Loosen and unhook the Foam Marker Tank Strap.
3. Remove Tank from bracket, remove Tank Lid, and empty contents of Tank.
4. Rinse and flush inside of Tank.
5. Return Lid to Tank, reattach couplers, and strap Tank into place.
6. Run system until all foam and water is emptied from the line.

NOTE: Operate one Boom Section at a time for maximum efficiency.

7. Refer to the Multi Pro® Turf Sprayer Operator's Manual for additional pre-storage requirements for the vehicle.

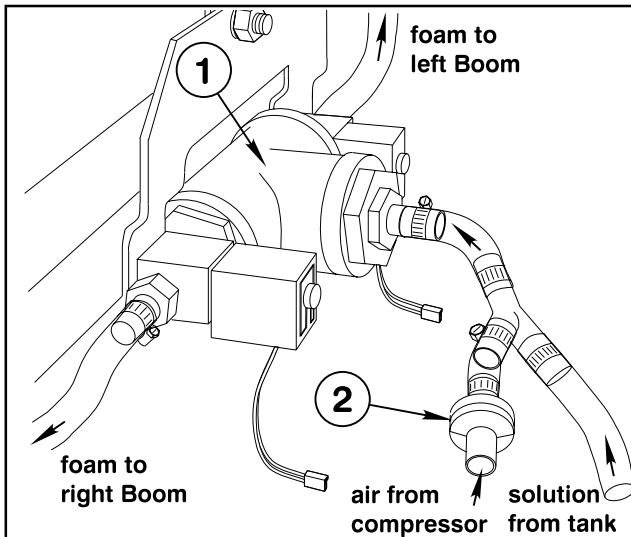


Figure 3

1. Mixer Tee

2. Check Valve

CAUTION

The contents in the Foam Marker Lines may retain pressure. Loosening lines or fittings under this condition could result in personal injury.

- Before performing maintenance procedures to the Foam Marker make sure pressure is released from all components.
- To relieve pressure from tank, flip the Pressure Relief Valve UP (as shown on page 2, decal # 94-7275)
- To relieve pressure from lines, disconnect the power supply to the compressor, and then turn the boom switches on.

NOTES:

NOTES:



The Toro General Commercial Products 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 1996 or newer Toro Commercial Product ("Product") purchased after January 1, 1997, to be free from defects in materials or workmanship for two years or 1500 operational hours*, whichever occurs first. Where a warrantable condition exists, we will repair the Product at no cost to you including diagnosis, labor, parts, and transportation. This warranty begins on the date the Product is delivered to the original retail purchaser.

* Product equipped with 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.

Toro Commercial Products Service Department
Toro Warranty Company
8111 Lyndale Avenue South
Bloomington, MN 55420-1196
612-888-8801
800-982-2740
E-mail: commercial.service@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 express warranty does not cover:

- Product failures which result from the use of non-Toro replacement parts, or from installation and use of add-on, modified, or unapproved accessories.
- Product failures which result from failure to perform required maintenance and/or adjustments.
- 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 consumer, or used up, during normal Product operation include, but are not limited to, blades, reels, bedknives, tines, spark plugs, castor wheels, tires, filters, belts, etc.

- Failures caused by outside influence, items considered to be outside influence include, but are not limited to, weather storage practices, contamination, use of unapproved coolants, lubricants, additives, or chemicals, etc.

- Normal "wear and tear" items. 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 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 factory remanufactured parts rather than new parts for some warranty repairs.

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 printed in your operator's manual 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. If all other remedies fail, you may contact us at Toro Warranty Company.