



MODEL NO. 41224 - 30001 & UP

OPERATOR'S
MANUAL

FOAM MARKER KIT for the WORKMAN® SPRAY SYSTEM

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 this 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 Workman Operator's Manual.



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 machine only after reading and understanding the contents of this manual. A replacement manual is available by sending complete model and serial number to: The Toro Company, 8111 Lyndale Ave. South, Minneapolis, Minnesota 55420.
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. Follow manufacturer's instructions on chemical container labels. Apply and handle chemicals as recommended.
 - B. Handle and apply chemicals with care. Wear goggles and other necessary protective equipment. Handle chemicals in well ventilated areas. Never smoke while handling chemicals.
 - C. Properly dispose of chemical container and unused chemicals.

SAFETY INSTRUCTIONS

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.

MAINTENANCE:

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.

8. Keep all nuts, bolts and other fasteners tightened securely. Replace any shields removed during servicing or adjustments.

9. 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.

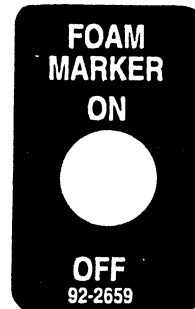


SAFETY AND INSTRUCTION DECALS

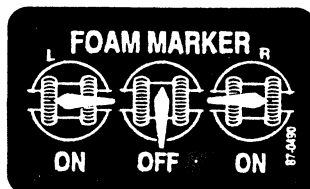
The following safety and instruction decals are installed on this equipment. If any become damaged or illegible, replace them. Decal part numbers are listed below and in the parts catalog. Order replacements from your Authorized Toro Distributor.



(Part No. 92-2665)
Under dash below
Fuse Block



(Part No. 92-2659)
On Switch Bracket
at dash



(Part No. 87-0490)
Top of Foam Tank

CONTROLS and OPERATION

ON/OFF SWITCH (FIG. 1): Activates the compressor which generates the flow of foam to the boom sections.

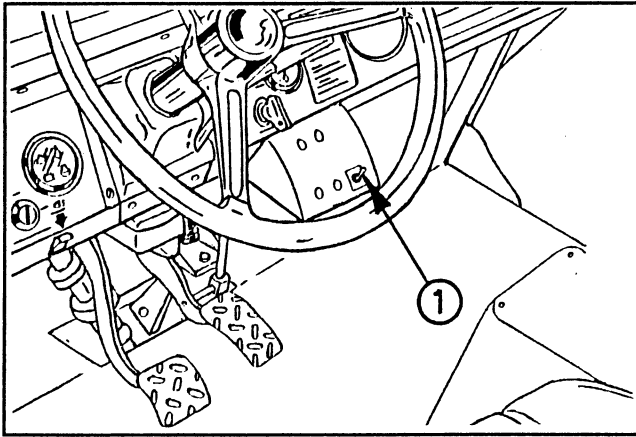


FIG. 1

On/Off Switch

BYPASS BALL VALVE (FIG. 2): Controls the frequency and amount of foam being discharged.

FOAM CONTROL LEVER (FIG. 2): Controls the flow of foam to either the right or left boom. In the center position, the flow of foam to the booms is stopped.

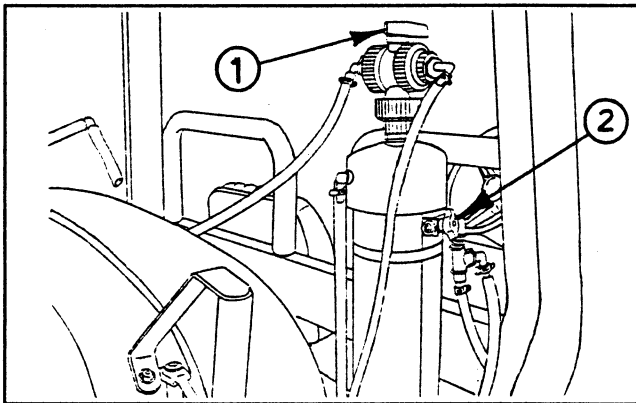


FIG. 2

1. Foam Control Lever

2. Bypass Ball Valve

OPERATION:

1. Ensure that the On/Off Switch is in the **OFF** position.



CAUTION

The contents of the foam marker tank is under pressure. Loosening fittings under this condition could result in contents spraying into eyes. To relieve pressure from the tank, switch the On/Off switch to **OFF** and, direct the foam to the right or left boom using the Foam Control Lever.

2. Loosen union and remove the foam control valve and hoses from top of the solution tank.

3. Pour approximately 1 gallon of water through opening in top of foam tank. Add foam concentrate as recommended on container label.

NOTE: On windy days, slightly wetter foam will prevent it from blowing away.

4. Reinstall the foam control valve and hoses on top of solution tank. Tighten the connection securely.

5. Start marking system and make a test pattern on the ground. If the foam is too dry, it will flow in unsteady high pressure surges. If the foam is too wet, it will flow in a watery consistency.

6. To change the frequency of the foam drops, adjust the bypass valve to control the pressure forcing the foam out the boom.

IMPORTANT: Do not operate compressor for prolonged periods with the Foam Control Lever in the **OFF** or **CENTER** position.

MAINTENANCE:

EVERY 100 HOURS:

1. Inspect the hose between the foam tank and compressor for water accumulation. No water should be found in this hose.

2. If water is found in the hose, remove the plastic check valve from the bottom of the tank tee and clean with clear water and a soft brush to remove any blockage or replace if necessary.

3. Inspect and clean if necessary, the brass strainer and check valve located in the 1/4" tee on the foam marker compressor.

EVERY 500 HOURS:

1. Replace the plastic check valve in the tee assembly located at the bottom of the foam marker tank.

2. Replace the brass strainer and check valve located in the 1/4" tee on the foam marker compressor.

The Toro Promise

A One Year Limited Warranty

The Toro Company promises to repair your model 41224 Foam Marker for the Workman vehicle if defective in materials or workmanship. The following time periods from the date of purchase apply (special warranty terms, on certain components, may be offered through The Toro Company by the component manufacturers):

Commercial Products 1 Year

The cost of parts, labor and transportation are included.

If you feel your TORO Product is defective and wish to rely on The Toro Promise, the following procedure is recommended:

1. Contact your Authorized TORO Distributor or Commercial Dealer (the Yellow Pages of your telephone directory is a good reference source).
2. The TORO Distributor or Commercial Dealer will advise you on the arrangements that can be made to inspect and repair your product.
3. The TORO Distributor or Commercial Dealer will inspect the product and advise you whether the product is defective and, if so, make all repairs necessary to correct the defect without an extra charge to you.

If for any reason you are dissatisfied with the distributor's analysis of the defect or the service performed, you may contact us.

Write:

TORO Commercial Products Service Department
8111 Lyndale Avenue South
Bloomington, MN 55420-1196

The above remedy of product defects through repair by an Authorized TORO Distributor or Commercial Dealer is the purchaser's sole remedy for any defect.

THERE IS NO OTHER EXPRESS WARRANTY. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This Warranty applies only to parts or components which are defective and does not cover repairs necessary due to normal wear, misuse, accidents, or lack of proper maintenance. Regular, routine maintenance of the unit to keep it in proper operating condition is the responsibility of the owner.

All warranty repairs reimbursable under The Toro Promise must be performed by an Authorized Toro Commercial Dealer or Distributor using Toro approved replacement parts.

Repairs or attempted repairs by anyone other than an Authorized TORO Distributor or Commercial Dealer are not reimbursable under the TORO Promise. In addition, these unauthorized repair attempts may result in additional malfunctions, the correction of which is not covered by warranty.

THE TORO COMPANY IS NOT LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PRODUCT INCLUDING ANY COST OR EXPENSE OF PROVIDING SUBSTITUTE EQUIPMENT OR SERVICE DURING PERIODS OF MALFUNCTION OR NON-USE.

Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion 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.

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 The Toro Company.