

TORO[®]

MODEL NO. 30728

SET-UP & OPERATOR'S
MANUAL**ELECTRIC SWIVEL OPTION**
FOR ROTARY HYDRAULIC BROOM (30743)

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. 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.



FOREWORD

You have purchased a product from the industry leader in maintenance excellence. Its future performance and dependability are of prime importance. TORO is also concerned about future use of the product and of safety to the user. Therefore, this manual must be read by you and those involved with the ELECTRIC SWIVEL OPTION to assure that safety, proper set-up, operation and maintenance procedures are followed at all times. The major sections of the manual are:



SAFETY INSTRUCTIONS

Keep this manual in the plastic tube behind the operator seat of the Tractor.

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

Carefully read and follow the "SAFETY" "SET-UP" and "OPERATING" Instructions.



The safety alert symbol means CAUTION, WARNING OR DANGER - "personal safety instruction". Read and understand the instruction because it has to do with safety. Failure to comply with the instruction may result in personal injury.

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 in this manual.

IMPORTANT identifies special mechanical information and NOTE identifies general information worthy of special attention. These instructions are provided as a guide for the safe set-up, operation and maintenance of this equipment. However, the operator's personal safety, as well as the 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. Read and understand the contents of this manual before operating the machine. Become familiar with all controls and know how to stop quickly. A replacement manual is available by sending complete model and serial number to:

The Toro Company
8111 Lyndale Avenue South
Minneapolis, Minnesota 55420-1196

2. Learn how to operate the machine and how to use it properly. DO NOT let anyone operate this equipment without first receiving thorough instructions.

3. Keep all bystanders away from the operating area.

4. Keep all shields and safety devices in place. If a shield, safety device or decal is illegible or damaged, repair or replace it before operation is commenced. Also tighten any loose nuts, bolts and screws to assure machine is in safe operating condition.

SET-UP INSTRUCTIONS

GENERAL

Refer to illustrated parts list for details of parts used in assembling and installing the ELECTRIC SWIVEL OPTION.

NOTE: "Right", "Left", "Front" and "Rear" are referenced while sitting in the Vehicle operator's seat.

ACTUATOR

1. Pivot Broom head until the actuator can be attached to the Broom head frame.
2. Secure motor end (motor facing right) of actuator to Broom head frame with the cap screw and locknut. Attach the shaft end of the actuator to the tank / frame mount with the cap screw, bushing and locknut.

BROOM CONTROL BOX AND WIRING

1. Attach Broom control box to the steering column with clamp, gaskets, washers and nuts about 6 inches below steering wheel.
2. Route the actuator wire through the steering column and connect to actuator.
3. Remove the Tractor instrument panel cover.
4. Route the power wires through the steering column and frame to the instrument panel and attach the negative wire (black) to the common ground terminal and the positive wire (red) to the rear terminal of the fuel gauge. Reinstall cover.

OPERATING INSTRUCTIONS



WARNING

DEBRIS HAS CONSIDERABLE FORCE AND COULD CAUSE INJURY.

- Stay away from sweeping area when machine is operating.
- Keep bystanders away from sweeping area when machine is running.

OPERATION

Toggle control box Broom Angle switch left or right until desired position is reached and release switch.

MAINTENANCE

IMPORTANT: Shear bolt at shaft end of actuator must only be replaced with a 1/4" UNC x 2 "Allthread Grade 2 bolt (100-5858).

The Toro Commercial Products Two Year Limited Warranty

The Toro Company warrants your 1996 or newer Toro Commercial ("Product") purchased after January 1, 1997, to be free from defects in materials or workmanship for the period of time listed below*. Where a warrantable condition exists, Toro 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.

Owner Responsibilities:

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

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
8111 Lyndale Avenue South
Minneapolis, MN 55420-1196
Telephone: (612) 888-8801
Facsimile: (612) 887-8258
E-Mail: Commercial.Service@Toro.Com

Maintenance Parts:

Parts scheduled for replacement as required maintenance ("Maintenance Parts"), are warranted for the period of time up to the scheduled replacement time for that part.

Items/Conditions Not Covered:

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. The items / conditions listed below are not covered by this warranty:

- Product failures which result from the use of non-Toro replacement parts, or from installation and use of add-on, modified, or unapproved accessories are not covered.
- Product failures which results from failure to perform required maintenance and/or adjustments are not covered
- Product failures which results from operating the Product in an abusive, negligent or reckless manner are not covered

- This warranty does not apply to 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, blades, reels, bedknives, tines, spark plugs, castor wheels, tires, filters, belts, etc.
- This warranty does not apply to 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.
- This warranty does not apply to 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.

Other Legal Disclaimers:

The above remedy of product defects through repair by an authorized distributor or dealer is the purchaser's sole remedy for any defect. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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 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.

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 Product 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.

Note to California residents: 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), or the California Air Resource Board (CARB). The hour limitations set forth above do not apply to the Emissions Control System Warranty. Refer to the California Emission Control Warranty Statement printed in your Owner's Manual or contained in the engine manufacturer's documentation for details.