

TORO®

MODEL NO. 44232

INSTALLATION  
INSTRUCTIONS

## CUSHMAN® GA™ 60 ADAPTER KIT

## INSTALLATION INSTRUCTIONS

## CUSHMAN® GA-60 ADAPTER KIT

The Cushman GA-60 Adapter kit contains the mounting bracket and wiring necessary to mount the GA-60 controller to the Workman. It will be necessary to have previously installed Hydraulic Control Kit (Model 07415) and the 5th Wheel Hitch Kit (Model 44230) on the Workman in order to use the GA-60 Aerator. In addition, it is recommended that the hand throttle and tachometer options be installed on the Workman to precisely monitor and control ground speed to assure desired hole spacing.

Read and understand the Workman, 5th wheel hitch kit, and Cushman GA-60 Aerator operator's manuals before using this equipment. Allow only properly trained and qualified operators to operate the equipment. All operator's manuals must remain on the equipment within easy access of the operator.

## INSTALL POWER CABLE

1. Disconnect negative (-) battery cable.
2. Connect red lead (+) of power cable to (+) terminal on battery. Replace boot.
3. Connect black lead (-) of power cable to main frame ground. (Optional: Connect black lead (-) of power cable to (-) terminal on battery.)
4. Mount power cable connector to L.H. side on 5th wheel hitch using 1/4" x 1-1/2" bolts.

NOTE: It will be necessary to remove power cable before removing 5th wheel hitch.

5. Reconnect the negative (-) battery cable to the battery.

## MOUNT GA-60 CONTROLLER (Fig. 1 &amp; 2)

1. Mount the GA-60 controller to the mounting bracket using (1) 3/8" x 1-1/2" bolt and flanged lock nut. (See Fig. 1)

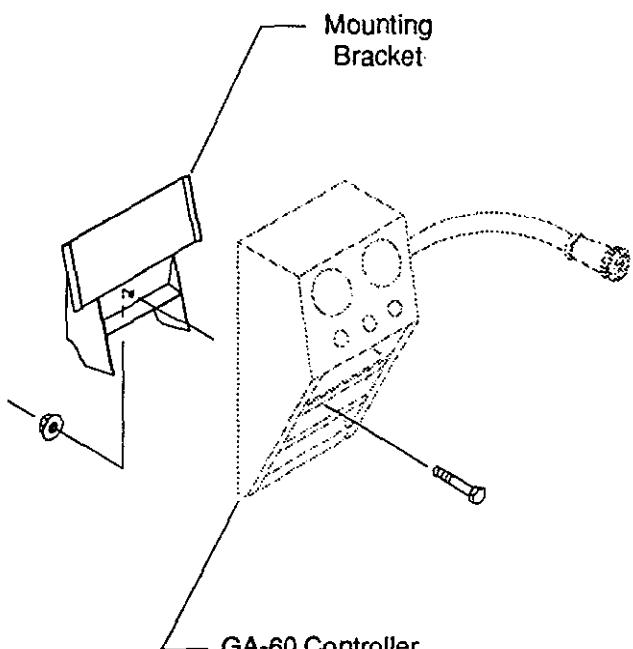


Figure 1

**NOTE:** The long carriage bolt, spring and spacer from the Cushman GA-60 controller bracket are not required for this mounting. Save the knob for Step #3.

"Cushman" is a registered trademark of A Ransomes America Corporation Company.  
"GA 60" is a trademark of Cushman.

## INSTALLATION INSTRUCTIONS (Continued)

2. Mount the controller bracket to the R.H. shoulder restraint through the center hole on the control box bracket using a 3/8" x 1-1/4" carriage bolt. (See Fig. 2)

3. Place the controller to the inside of the shoulder restraint and the clamp to the outside of the shoulder restraint. Assemble with plastic knob already provided with the GA-60 controller. (See Fig. 2)

4. Tighten knob to secure controller to restraint.

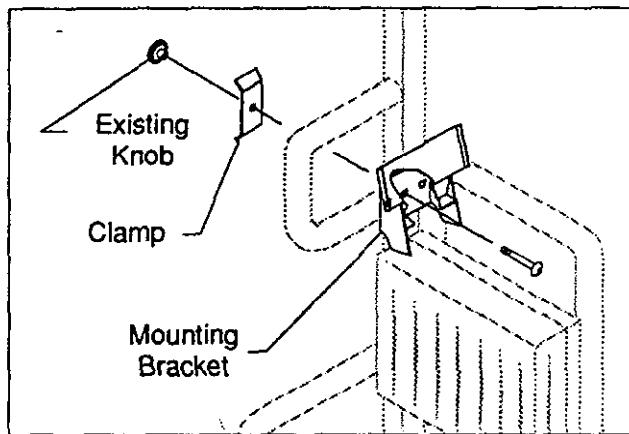


Figure 2

3. Connect (92-4543) splicer harness from brake controller receptacle on L.H. frame of Workman to GA-60 controller. Route and retain harness out of the way. (See Fig. 3)

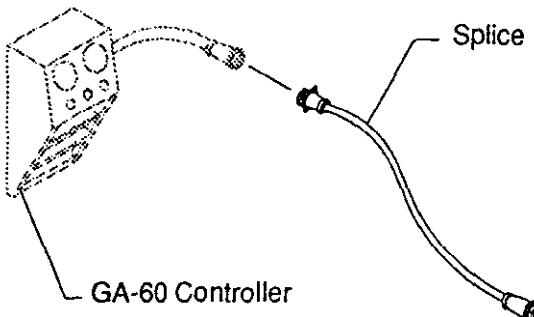


Figure 3

### CAUTION

NEVER connect the splicer (92-4543) harness directly to the GA-60. ALWAYS connect the splicer to the GA-60 Controller.

4. Connect GA-60 power cable to power cable previously installed onto Workman.

5. Route and secure all hoses and wires in a manner that will prevent entanglement with the Workman, yet provide sufficient slack to allow turns in either direction. Exit the wires from the GA-60 near the tongue socket and route through the wire bracket on the 5th wheel hitch. (See Fig. 4)

### CONNECT GA-60 AERATOR TO WORKMAN (Fig. 3 & 4)

1. Connect tongue of GA-60 Aerator to the ball of the Workman 5th wheel hitch following the procedure described in the 5th wheel hitch kit manual.

**NOTE:** Always apply a light coat of grease on the ball of the 5th wheel hitch before attaching the GA-60 Aerator.

2. Connect hydraulic hoses of the GA-60 Aerator to the Workman remote hydraulic quick couplers following the procedure in the 5th wheel hitch kit manual.

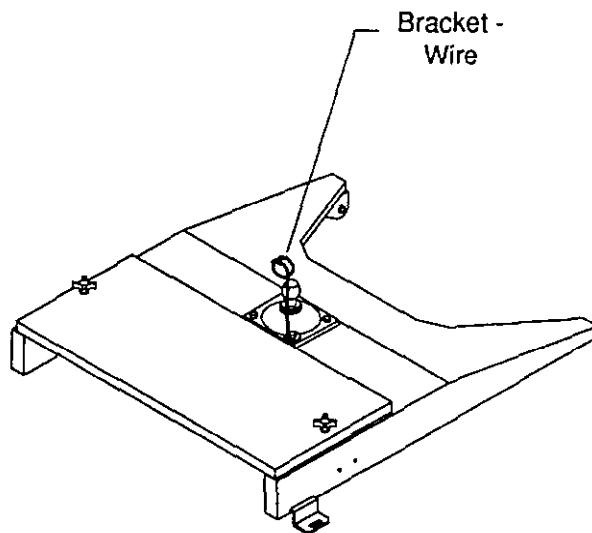


Figure 4

# INSTALLATION INSTRUCTIONS (Continued)

## OPERATING TIPS

1. Familiarize yourself with all the safety, maintenance, and operating instructions described in the Workman, 5th wheel hitch kit and Cushman GA-60 Aerator and follow them. This will help to insure safe and trouble free operation.
2. Check to make sure the electric brakes on the GA-60 Aerator are connected and function before use. **NEVER** operate without properly functioning brakes.
3. The pin must be removed from the uplatch bar of the GA-60 Aerator before lowering the aerator heads. Lock the uplatch bar in place whenever working on the GA-60 to prevent accidental lowering of the aerator heads. Also install the uplatch bar to relieve hydraulic pressure in the hoses when unhooking the GA-60 from the Workman. **NEVER** work on or around GA-60 with either Workman or GA-60 engines running.
4. The engine of the GA-60 can be started and stopped from the GA-60 control panel mounted on the Workman's R.H. shoulder restraint. (Refer to Cushman GA-60 operators manual for starting and operating procedures.) The GA-60 engine speed is automatically increased and the aerator heads are automatically engaged when the aerator heads are lowered via the remote hydraulic control of the Workman.
5. Assure the hydraulic hoses are plugged into the correct quick coupler parts of the Workman. Use the Workman remote hydraulic to raise and lower the GA-60. Moving the remote hydraulic control lever rearward should raise the GA-60 and disengage the aerator heads. Moving the remote hydraulic control lever forward should lower the GA-60 and engage the aerator heads. Never place the remote hydraulic control lever in the "run" detent position.

6. Tow the GA-60 aerator in 1st - Lo @ 1-2 mph to obtain 2-1/2"-5" hole spacing. In 1st-Lo :

1250 rpm = 1 mph = 2.5" (4mm) hole spacing  
1850 rpm = 1.5 mph = 3.75" (45 mm) hole spacing  
2500 rpm = 2 mph = 5" (127 mm) hole spacing

7. Check the grounds area prior to aerating and remove foreign objects which could damage the equipment or present a hazard to the operator. Do not operate over hard surfaces (i.e; driveways, parking lots, sidewalks, etc..) with aerator in lowered position.

8. Use extreme care when backing unit. **NEVER** back unit with GA-60 in DOWN position or damage will occur to tines.

9. **NEVER** run engine in a enclosed space where exhaust fumes and deadly carbon monoxide could collect.

10. **ALWAYS** stop both Workman and GA-60 aerator engines and DO NOT smoke when refueling. Gasoline is extremely flammable and can be highly explosive.

11. Make sure all shields and guards are kept in place.

# The Toro Promise

## A ONE YEAR LIMITED WARRANTY

*The Toro Company promises to repair your TORO Product if defective in materials or workmanship. The following time periods from the date of purchase apply:*

Commercial Products ..... 1 Year

*The costs of parts and labor are included, but the customer pays the transportation costs on walk rotary mowers with cutting widths of less than 25".*

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  
100 Industrial Parkway  
Industrial Airport, Ks. 66031

The above remedy of the 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 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 or limitation of incidental or consequential damages, so the above limitation or 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.