FORM NO. 3310-854

TORO

MODEL: 27-7090

INSTALLATION AND SERVICE INSTRUCTIONS

REMOTE AIR CLEANER KIT

FOR GROUNDSMASTER 72

INSTALLATION INSTRUCTIONS

DESCRIPTION	QTY.	USE
Mounting Band	2	Mount Air Cleaner and Regulator, Front Page.
Cap Screw (5/16-18 x 3/4)	4	
Lock Washer	4	
Nut (5/16-18)	4	
Machine Screw (10-24 x 1-1/4)	2	
Spacer	2	
Air Cleaner	1	
Hose	1	Install Air Cleaner Hose, Page 2.
Hose Clamp	2	
Air Inlet Cap	1	

DRILL HOLES THROUGH SIDE PANEL

Tools Required: 3/8-Inch Open End Wrench, 1/2-Inch Open End Wrench, 3/8-Inch Socket and 11/32 Drill

1. Remove negative cable from negative battery post to deactivate the electrical system.

2. Remove two hex head machine screws and flange nuts holding regulator against inside surface of right rear side-panel. Discard both machine screws because longer screws will be installed later.

3. Drill four, 11/32 inch holes through right rear side-panel. Correct location of the holes is essential (Fig. 1).

IMPORTANT: Be careful when drilling holes through side-panel to prevent accidental contact with other parts.

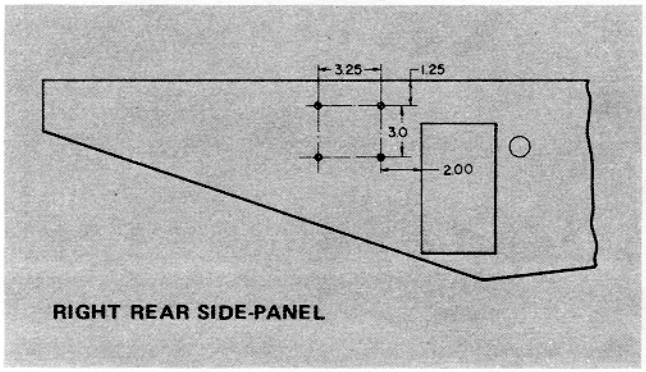


Figure 1

MOUNT AIR CLEANER AND REGULATOR

Tools Required: 1/2-Inch Socket, 3/8-Inch Socket, 1/2-Inch Open End Wrench, 7/16-Inch Open End Wrench, 3/8-Inch Open End Wrench and Screwdriver

1. Secure both mounting bands against side-panel with four cap screws, lock washers and nuts (Fig. 2). Assure head of cap screw is on inside of the side-panel and screws at side of mounting bands face toward front of machine.

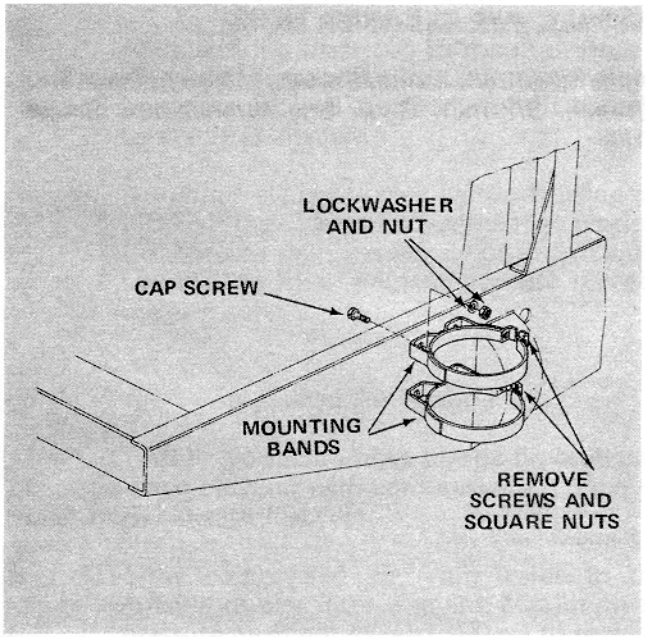


Figure 2

COPYRIGHT JULY 1976 BY
The Toro Company
MINNEAPOLIS, MINN. 55420—U.S.A.

2. Remove two round head machine screws and square nuts from mounting bands (Fig. 2). Slide air cleaner assembly between mounting bands (Fig. 3). Reinstall two round head machine screws and square nuts, but do not tighten them (Fig. 3).

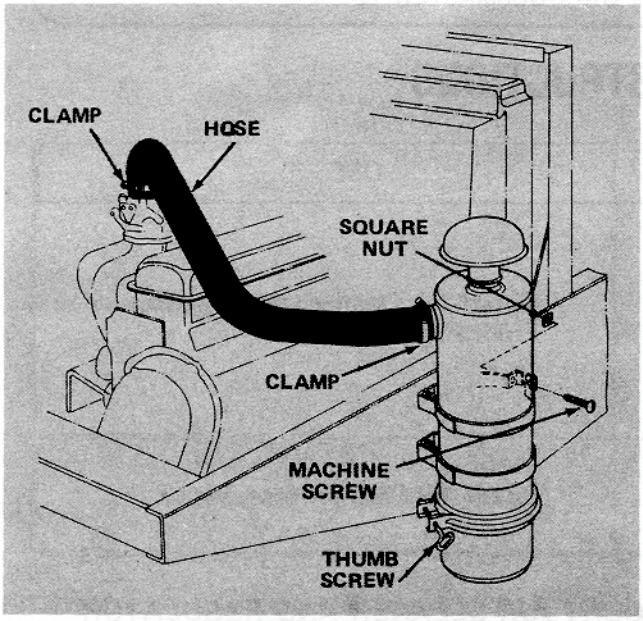


Figure 3

3. Loosen thumb screw (Fig. 3) at bottom of air cleaner until retaining ring rotates.

4. Slide new machine screws through side-panel and install spacer on each screw. Slide regulator onto machine screws and secure it in place with two flange nuts.

INSTALL AIR CLEANER HOSE

Tools Required: 11mm Socket, 1/2-Inch Open End Wrench, 3/8-Inch Open End Wrench and Screwdriver

1. Remove wing nut and lift original equipment air cleaner cover and filter off backing plate. Also remove the metric cap screw and lock washer holding backing plate on top of carburetor. Cover intake of carburetor to guard against entry of dirt.

Note: Air cleaner assembly, which are the parts removed in this step, will not be used again.

2. Slide both hose clamps onto hose (Fig. 3). Push ends of hose fully onto air cleaner and carburetor flanges, and retain hose in place with hose clamps (Fig. 3). Tighten hose clamp screws securely so a good seal is formed between inside of hose and mounting flanges.

3. Tighten the two round head machine screws and square nuts retaining air cleaner between mounting bands (Fig. 3).

4. Rotate thumb screw behind air cleaner; then tighten thumb screw securely (Fig. 3).

5. Push air inlet cap onto top of air cleaner (Fig. 3).

6. Install cable onto negative battery post.

CHECK THROTTLE AND HOOD CLEARANCE

1. Operate throttle control and other parts in the throttle linkage and assure there is clearance between hose and throttle linkage parts.

2. Carefully close the hood and assure there is clearance between hood and hose.

3. With hood open, start the engine. Check for air leak at end of hose on carburetor and air cleaner. Tighten hose clamp screw if leak is evident.

AIR CLEANER MAINTENANCE

GENERAL MAINTENANCE PRACTICES

Inspect air cleaner and hose periodically to maintain maximum engine protection and to assure maximum service life.

1. Assure hose between air cleaner and carburetor is clamped securely in place. Replace the hose if it is cracked or punctured.

2. Check air cleaner body for dents and other damage which could possibly cause an air leak. Replace a damaged air cleaner body.

3. Assure dust cup is sealing around bottom of air cleaner body.

4. Mounting screws and nuts holding air cleaner in place must be tight.

5. Inlet cap must be free of obstructions.

SERVICING DUST CUP AND BAFFLE

Inspect the dust cup and rubber baffle once a week; however, daily inspection is required when operating conditions are extremely dusty and dirty. Never allow dust to build up closer than one inch from the rubber baffle.

1. Loosen thumb screw until dust cup and baffle can be removed (Fig. 3). Separate dust cup and baffle (Fig. 4).

2. Dump dust out of the dust cup. After cleaning cup and baffle, assemble and reinstall both parts.

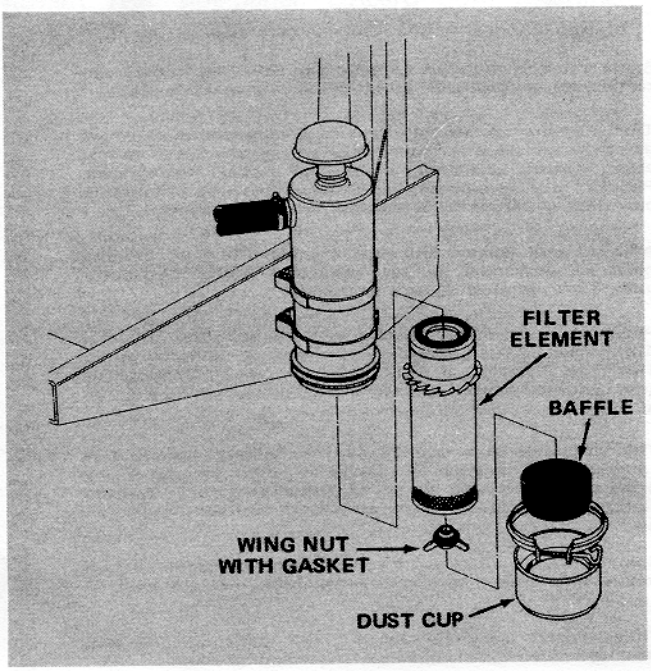


Figure 4

SERVICING AIR CLEANER FILTER

Lack of power, excessive exhaust smoke—as if engine was being choked—and excessive oil consumption indicate air cleaner element needs cleaning. Replace element after six cleanings or annually, whichever occurs first.

1. Remove and service dust cup: refer to Servicing Dust Cup and Baffle, page 3.

2. Remove wing nut w/gasket and slide filter element out of air cleaner body (Fig. 4).

3. Clean the element by washing it in a solution of filter cleaner (part no. 27-7220, available from Toro) and water, or blow dirt out of filter by using compressed air.

Note: Compressed air is recommended when element must be used immediately after servicing because a washed element must be dried before it is used. By comparison, washing the element cleans better than blowing dirt out with compressed air. Remember though, filter must be washed when exhaust soot is lodged in the filter pores.

Washing Method

IMPORTANT: Do not remove plastic fin assembly because washing removes dust from beneath fins.

A. Prepare a solution of filter cleaner and water and soak filter element about 15 minutes. Refer to directions on filter cleaner carton for complete information.

B. After soaking filter for 15 minutes, rinse it with clear water. Maximum water pressure must not exceed 40 psi to prevent damage to the filter element.

C. Dry filter element using warm, flowing air (160° F max.) or allow element to air-dry. Do not use compressed air or a light bulb to dry the filter element because damage could result.

Compressed Air Method

IMPORTANT: Do not remove plastic fin assembly because back-blowing with compressed air removes dust from beneath fins.

A. Blow compressed air from inside to the outside of dry filter element. Maximum air pressure must not exceed 100 psi to prevent damage to the filter element.

AIR CLEANER MAINTENANCE

B. Keep air hose nozzle at least one inch from pleated paper, and move nozzle up and down while rotating the filter element. Inspect element when dust and dirt are removed: refer to Inspecting Filter Element, back page.

4. Wipe inside of air cleaner body with a damp cloth to remove excess dust. Slide filter into air cleaner body and secure it in place with wing nut and gasket.

5. Reinstall dust cup and baffle. Move thumb screw behind air cleaner body and tighten it securely.

INSPECTING FILTER ELEMENT

1. Place bright light inside filter.

2. Rotate filter slowly while checking for cleanliness, ruptures, holes and tears. Replace defective filter element.

3. Check fin assembly, gasket and screen for damage. Replace filter if damage is evident.

Keep Your TORO All Toro Genuine TORO PARTS & ACCESSORIES ***Insist on Genuine Toro Parts***

The Toro Promise

A One Year Limited Warranty on Turf Products Other Than Walk Rotary Mowers

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

Turf Products	1 Year
Hevi-Duty Walk Rotary Mowers	90 Days

The costs of parts and labor are included, but the customer pays the transportation costs on walk rotary mowers.

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

1. Contact your Authorized TORO Distributor (the Yellow Pages of your telephone directory is a good reference source).
2. The TORO Distributor will advise you on the arrangements that can be made to inspect and repair your product.
3. The TORO Distributor will inspect the product and advise you whether the product is defective and, if so, make all repairs necessary to correct the defect without 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 Turf Products Service Department
8111 Lyndale Avenue South
Minneapolis, Minnesota 55420

The above remedy of product defects through repair by an Authorized TORO Distributor 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 limitation on how long 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 Distributor using Toro approved replacement parts.

Repairs or attempted repairs by anyone other than an Authorized TORO Distributor 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.

Compliance with Radio Interference Regulations Certified.
Certifie Conforme au Reglement sur le Brouillage Radioelectrique.

Litho in U.S.A.