

**COMPLETE SAFETY, ASSEMBLY, OPERATION,
MAINTENANCE, AND PARTS ORDERING INFORMATION**

**THE
GARDEN WAY
SPEEDY HOE™ TILLER/CULTIVATOR**



OWNER/OPERATOR MANUAL

March 1988 Edition

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WARNING

Under California Law, you are not permitted to operate an internal combustion engine using hydrocarbon fuels on any forest covered, brush covered, or grass covered land, or land covered with grain, hay, or other flammable agricultural crop, without an engine spark arrestor in continuous effective working order. The engine on your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator, like most garden equipment, is an internal combustion engine that burns gasoline, a hydrocarbon fuel; therefore it must be equipped with a spark arrestor muffler in proper working order. The spark arrestor must be attached to the engine exhaust system in such a manner that flames or heat from the system will not ignite flammable material. Failure of the operator to comply with this regulation is a misdemeanor under California Law.

Dear Owner:

Congratulations on purchasing your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator. You'll find it to be a very helpful addition to your current gardening tools. It makes a fine companion machine to the rear-tine tiller. You can easily carry your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator to the garden and begin spot cultivating.

Your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator is a rugged, easily operated, dependable gardening tool. If properly cared for, it can give you years of gardening enjoyment.

We have prepared this Manual to make sure that you know how to safely operate and maintain your machine. Please read this Manual all the way through before you assemble and operate your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator. Before you even start the engine, make sure that you know both the function of all controls and the procedure for quickly stopping the machine.

If another person uses your GARDEN WAY™ Tiller/Cultivator, give him this Manual to read. Before using the machine, make sure that the operator knows how to safely operate and shut it off.

Of course, if you should ever have a question, need more information, or need to order parts, call or write to us. Our telephone numbers and addresses are listed on the back cover of this Manual.

Sincerely,

Dean Leith, Jr.

Dean Leith, Jr.
Sales Manager,
Garden Way, Inc.

Please record your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator serial number and date of delivery in the spaces below. If you should ever need parts or information about your machine, please include the serial number when you call or write to us.

DATE OF DELIVERY _____

SERIAL NUMBER _____

The serial number decal is located on the left hand side of the hood. Refer to Photo 1 for its location.

SAFETY

Please read this Section very thoroughly and always follow these safety practices whenever you operate, repair, or store your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator.

If you lend your machine to some one else, be sure that he has read, understands, and follows the safety instructions and operating procedures in this Manual.



This symbol, used throughout this Manual and on decals on your machine means "ATTENTION! BECOME ALERT A SAFETY MESSAGE FOLLOWS".

Always read and obey the instructions that follow this symbol. Failure to obey these instructions may cause personal injury or property damage.

TRAINING

1. Carefully read the Owner/Operator Manual and any other service instructions that you receive. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator and disengage the controls quickly.

2. Never allow children to operate the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator. Never allow adults to operate the machine without proper instructions.

3. Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

1. Thoroughly inspect the area to be tilled or cultivated and remove all foreign objects.

2. Do not operate the machine without wearing adequate outer garments. Avoid loose garments which could get caught in any moving parts. Wear footwear which will improve footing on slippery surfaces and which will resist penetration.

3. Handle fuel with care, it is highly flammable.

(a). Use an approved fuel container.

(b). Never add fuel to a running engine or to a hot engine.

(c). Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.

(d). Replace gasoline cap securely and clean up spilled fuel before restarting.

4. Before starting engine, be sure that the throttle lever is released so that the centrifugal clutch is not engaged.

5. Never attempt to make any adjustments while the engine is running (except when recommended).

OPERATION

1. **Never transport this machine when the engine is running. Shut the engine off before transporting the machine.**

2. Do not put hands or feet near or under rotating parts.

3. Shut off engine before crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

4. After striking a foreign object, stop the engine. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting. Thoroughly inspect the machine for any damage and repair the damage before restarting and operating.

5. Exercise caution to avoid slipping or falling.

6. If the machine should start to vibrate abnormally, stop the engine, disconnect the spark plug wire, and check immediately for the cause. Vibration is generally a warning of trouble.

7. Stop the engine whenever you leave the operating position. Also disconnect the spark plug wire before unclogging the tines and when making any repairs, adjustments, and inspections.

8. Take all possible precautions when leaving the machine unattended. Stop the engine.

9. Before cleaning, repairing, or inspecting, shut off the engine, make certain all moving parts have stopped, and disconnect the spark plug wire.

10. NEVER run engine indoors. Exhaust fumes contain Carbon Monoxide which is an ODORLESS and DEADLY POISONOUS GAS.

11. Never operate the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator without the proper guards, plates, or other safety protective devices in place.

12. Keep children and pets away.

13. Do not overload the machine's capacity by attempting to till too deep at too fast a rate.

14. Never operate the GARDEN WAY SPEEDY HOE™ at high transport speeds on slippery surfaces. Look behind and use care when backing.

15. Never allow bystanders near the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator.

16. Never operate this machine without good visibility or light.

17. Do not till or cultivate near underground electrical cables, telephone lines, pipes, or hoses. If in doubt about their location, contact your telephone or utility company to locate underground services.

18. Be aware that the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator could unexpectedly bounce upward, or jump forward if the tines should strike extremely hard-packed soil, frozen ground, or buried obstacles such as large stones, roots or stumps.

19. Do not operate the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator on slopes that are too steep for safety.

20. Use only attachments and accessories that are approved by Garden Way Manufacturing Company.

21. Never operate this machine when you are under the influence of alcohol, drugs, or medication.

22. Do not touch engine parts which may be hot from operation. Allow parts to cool before inspecting, cleaning, or repairing this machine.

23. The operation of any powered machine can result in foreign objects being thrown by high speed rotating parts. Always wear safety glasses or other eye protection when operating this machine.

MAINTENANCE AND STORAGE

1. Keep the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator in safe working condition.

2. Check all fasteners at frequent intervals for proper tightness to be sure that the equipment is in safe working order.

3. Never store this machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water and space heaters, clothes dryers, etc. Allow the engine to cool before storing in any enclosure.

4. Always refer to this Owner/Operator Manual and the Engine Owner's Manual for important details if the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator is to be stored for an extended period.

5. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease and oil.

Photo 1 shows the location of the various safety and operating decals. If any of these decals ever becomes faded, damaged, or loose, please refer to the Parts Ordering Information and the Exploded View of the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator (in this Manual) to order replacements.

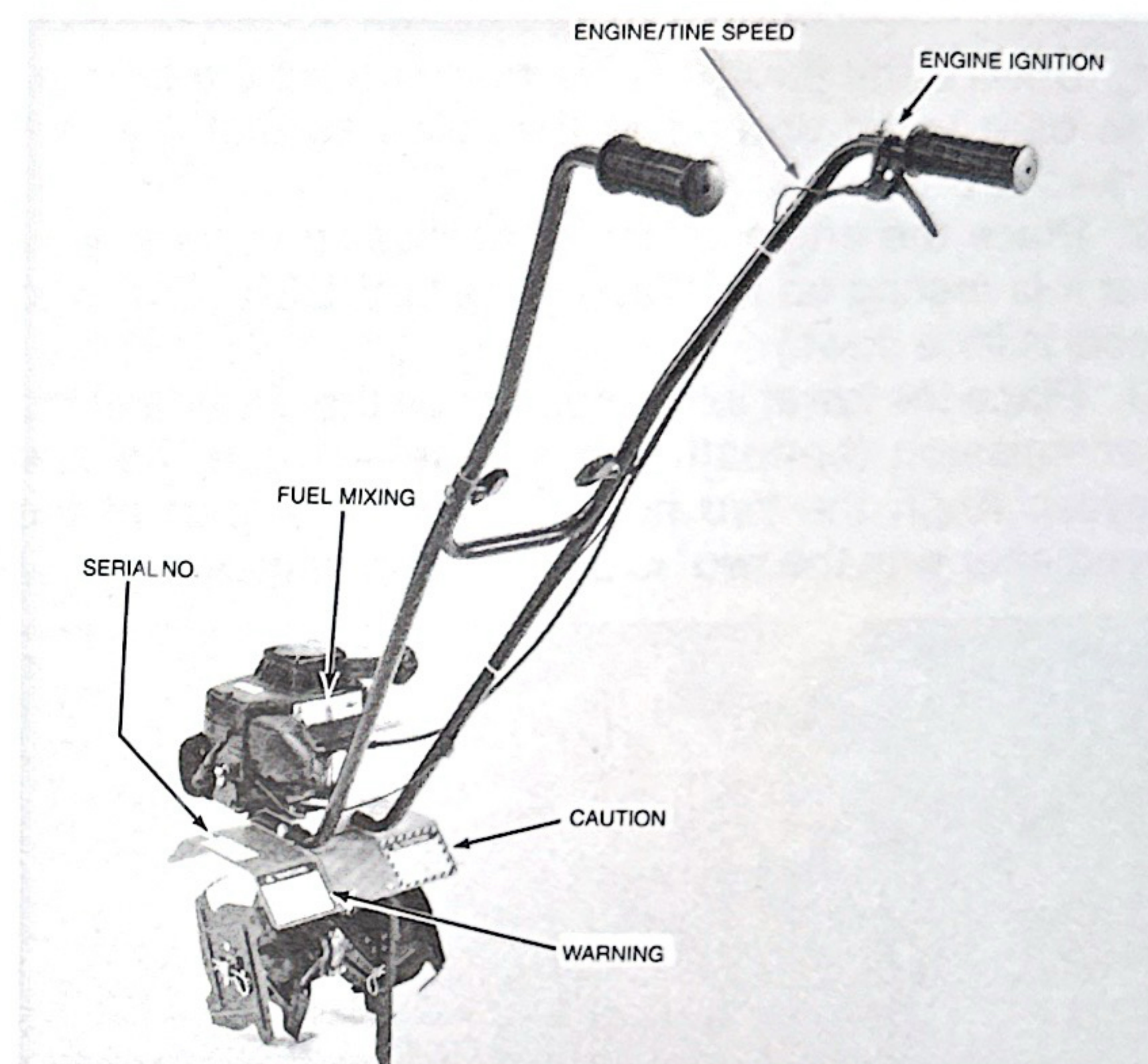


Photo 1: Decals

EASY ASSEMBLY

After unpacking your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator, lay the parts out as shown in Photo 2. Compare the contents of the shipping carton with the items shown in Photo 2. If any items are damaged or missing, call our Technical Service Department for replacements or for advice on filing a claim.

1. The engine/tines/transmission assembly.
2. The lower left handlebar.
3. The lower right handlebar.
4. The upper handlebar.
5. The oil/fuel mixing cup.
6. The hardware bag, which contains:
 - a. Two curved head carriage bolts (short).
 - b. Six formed (curved) washers.
 - c. Two handlebar knobs.
 - d. Two hex head screws (long).
 - e. Two locknuts.
 - f. One throttle lever mounting screw.
 - g. One flat nut.
 - h. One rectangular rubber throttle lever mounting spacer.
 - i. Two tie straps.
 - j. Two tine spacers (used when outer tines are removed for narrow tilling).
 - k. One engine switch ON/OFF wire.
 - l. One engine switch.

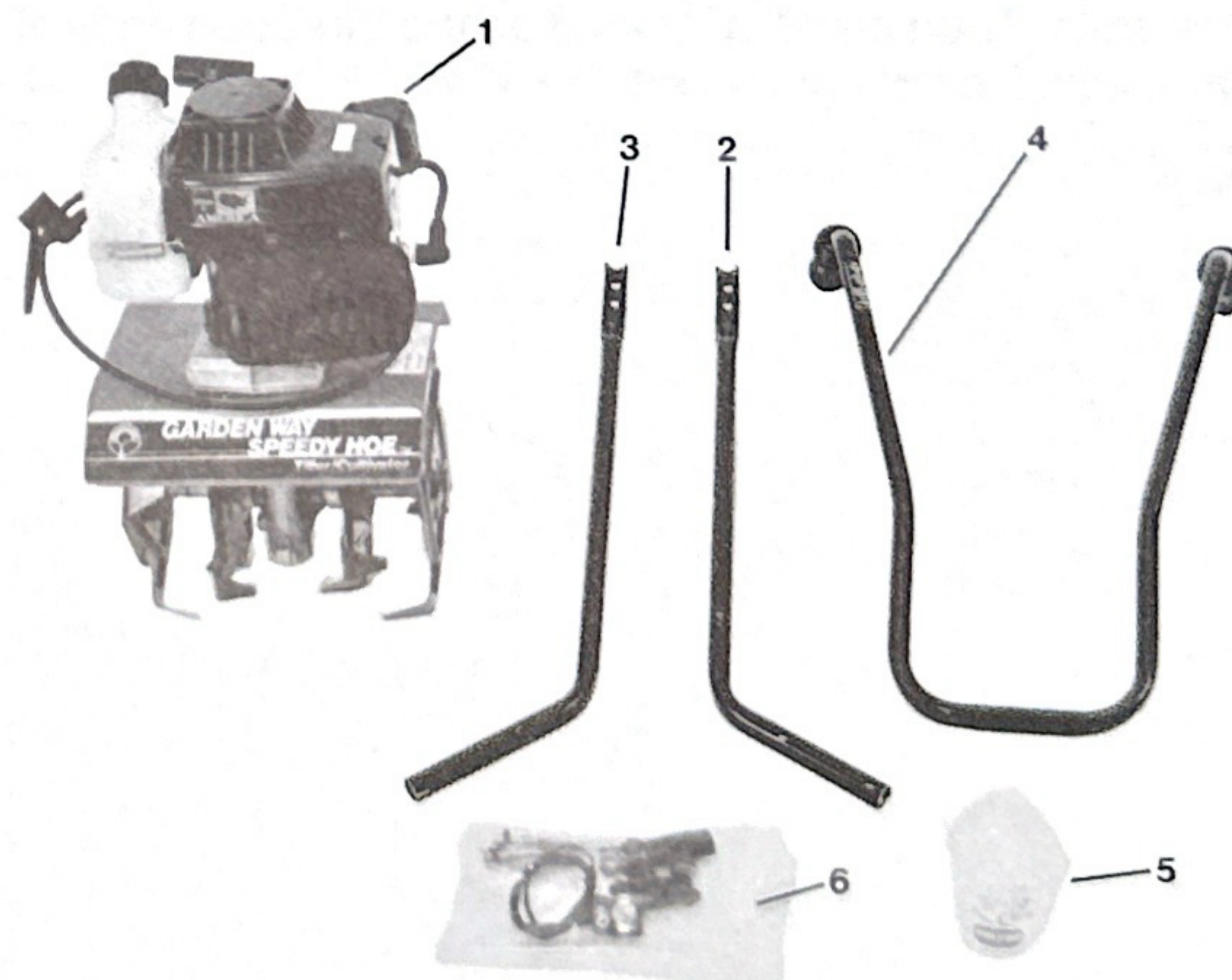


Photo 2: The Contents of the Shipping Carton

You'll need the following tools to assemble your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator:

- 2 7/16 wrenches (a 7/16 socket, extension, and ratchet can be substituted for one of the 7/16" wrenches)
- 1 Medium Phillips head screwdriver

1. Unwind the throttle cable from around the engine. Use care when unwinding the cable so that it is not kinked or bent.

2. Place the engine/tines/transmission assembly so that it is resting on its "face" (the GARDEN WAY logo decal is face down).

3. Place the lower left handlebar on the left side of the transmission (beneath the engine—above the tine cover). Align the two holes in the lower part of the handlebar with the two holes in the transmission.

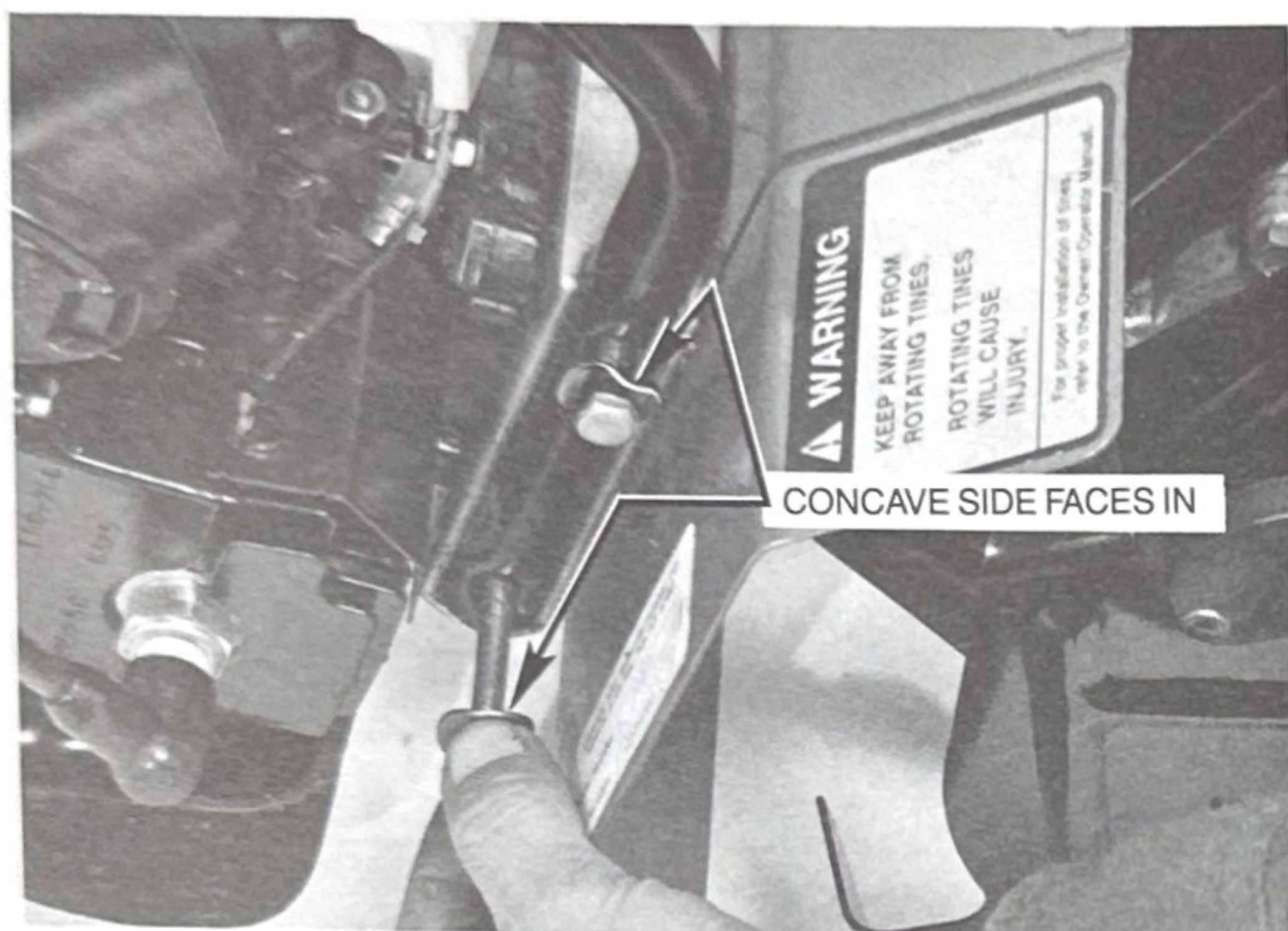


Photo 3: Positioning Lower Left Handlebar

4. Insert the two (long) hex head bolts and curved washers through the lower left handlebar, through the transmission, and out the right side of the transmission.

5. Place the lower right handlebar over the threaded ends of the bolts that protrude from the right side of the transmission.

6. Place a curved washer over the threaded ends of the bolts. Then install a locknut on the threaded ends of the bolts. Do not tighten yet.

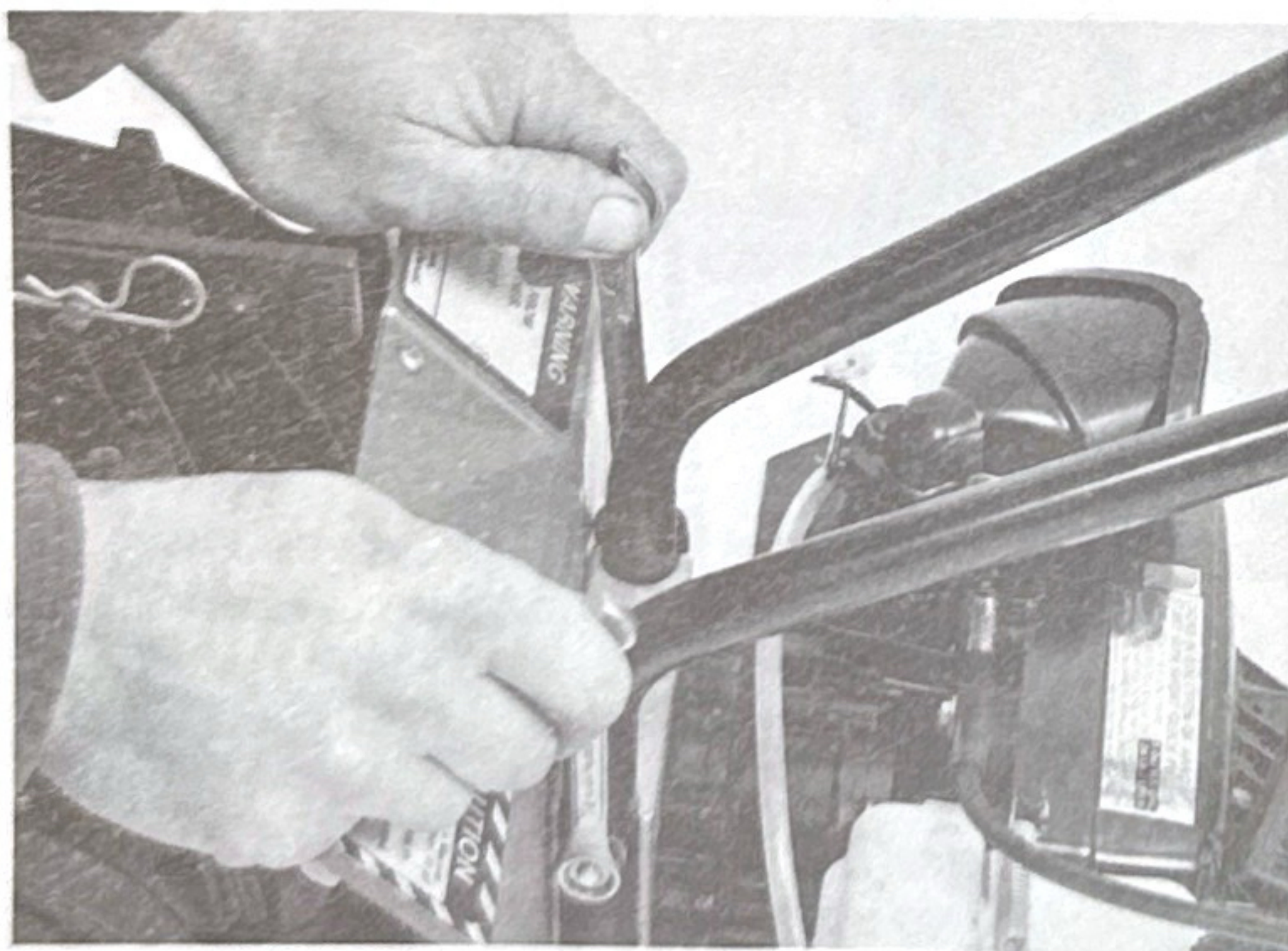


Photo 4: Securing the Lower Handlebars in Place

7. Place the upper handlebars between the upper ends of the two lower handlebars. From the outside, slide one of the (short) curved head carriage bolts through the left handlebar.

8. Place a formed (curved) washer over the threaded end of this bolt. Install a handlebar knob on the threaded end of this carriage bolt.

9. Repeat steps 7 and 8 for the remaining side.

10. Evenly tighten the bolts that secure the LOWER handlebars to the engine. Just snug the nuts down until they are tight; do not over-tighten them.



Photo 5: Attaching Upper Handlebars to Lower Handlebars

11. Tighten both handlebar knobs now.

12. Slip the throttle lever mounting screw down through the hole in the Engine On/Off Switch bracket. Then insert the threaded end of the screw down into the hole that is in front of the right handlebar grip. Note that the switch and bracket are to the inside of the right handlebar.

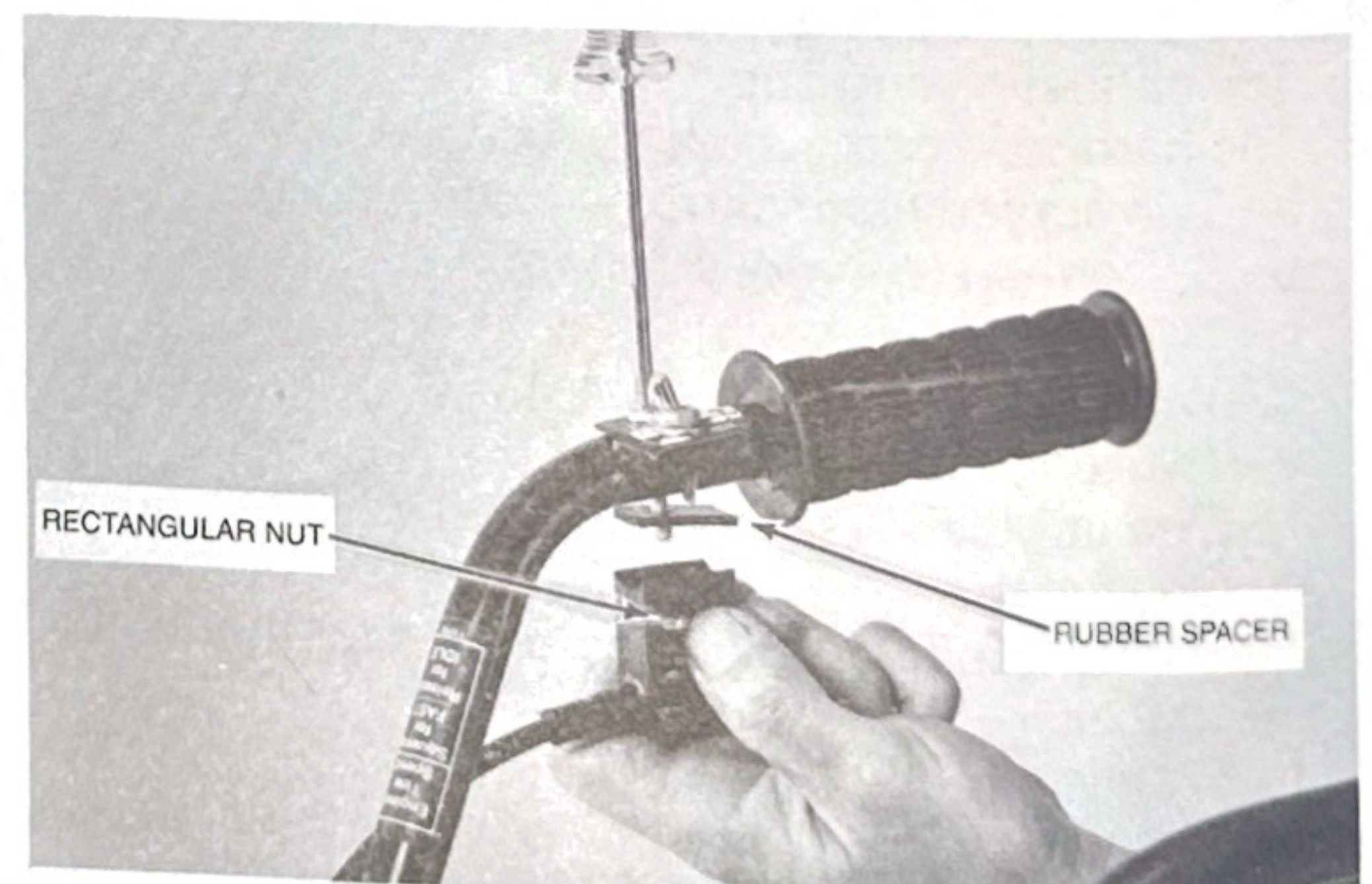


Photo 6: Installing the Engine On/Off Switch and Throttle Lever Assembly

13. Place the rectangular rubber throttle lever spacer over the threaded end of the screw (turn this spacer so that its "long" end points to the rear).

14. Turn the rectangular nut so that the projections on one side **face up**. Insert the rectangular nut into the slot in the throttle lever.

15. Use two fingers to prevent the rectangular nut from falling out and position the Engine Throttle Lever assembly on the threaded end of the screw.

16. Hold the Throttle Lever Assembly in place. Use your free hand to start the screw into the rectangular nut. You may have to move the nut back and forth slightly until it aligns with the screw. After you've started the screw, use a Phillips head screwdriver to firmly tighten it.

17. Install the wire to the push-on terminal of the Engine On/Off Switch and to the engine ground wire.



Photo 7: Attaching the On/Off Wire to the Switch



Photo 8: Attaching the On/Off Wire to the Engine

18. Secure the throttle cable and the Engine On/Off Switch wire to both the lower and the upper handlebars with the plastic ties. The serrated side of the ties should be on the inside when you loop the tie around the handlebar, wire, and throttle cable. Tighten the tie by pulling on its loose end. Then snip any excess tie off.



Photo 9: Installing Ties

OPERATION

Your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator is now fully assembled and ready to be serviced with its fuel/oil mixture.

THE FUEL OIL MIXTURE

Since your GARDEN WAY SPEEDY HOE™ has a Tecumseh two cycle ("two stroke") engine, you **MUST** mix a quality two cycle oil with its gasoline. If you do not do this, the engine will seize up from a lack of lubrication. (This is similar to allowing your car's engine to run out of oil.)

WARNING

Gasoline is highly flammable.
Keep gasoline away from any possible ignition sources.

Do not smoke while mixing the fuel/oil or when filling the gasoline tank.

Failure to follow these precautions could result in the fuel igniting, resulting in personal injury or property damage.

⚠ CAUTION

Never mix fuel/oil directly in the machine's gas tank.

Use the proper fuel/oil mix.

Read the fuel/oil mixing instructions in this Manual and on the engine. Disregard any conflicting instructions on pre-mixed fuel/oil containers.

Always use the proper oil.

The fuel/oil mix ratio for the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator is 24:1. (use 24 parts of fuel to 1 part of the proper oil).

Use unleaded gasoline (regular grade is an acceptable substitute) but do not use high test gasoline.

Mix this gasoline with either:

SAE 30 or SAE 40 weight two-cycle oil.

OR

SAE 30 or SAE 40 weight outboard motor oil.

Do not use a multi-viscosity two cycle engine oil. Do not use regular engine oil. These types of oil may not lubricate the engine properly and may foul the spark plug.

NOTE

Use only clean oil and fuel. Store in an approved, clean container only.

Use a clean funnel to fill the tank.

To make the correct mixture of fuel and oil, use the chart below to find the quantities you need to mix together.

To mix: first fill a clean container with one-quarter of the amount of fuel you will be mixing. Then add ALL of the oil required for the entire amount of fuel you're mixing. Mix this thoroughly. Then add the remaining 3/4 of the amount of fuel.

FUEL MIX CHART Mixture 24:1 (4%)					
U.S.		IMPERIAL		S.I. (METRIC)	
Gas	Oil to Be Added	Gas	Oil to Be Added	Petrol	Oil to Be Added
1 Gal.	5 oz.	1 Gal.	6 oz.	4 Liters	.167 L
2 Gal.	11 oz.	2 Gal.	13 oz.	8 Liters	.333 L
5 Gal.	27 oz.	5 Gal.	32 oz.	20 Liters	.833 L

NOTE

The line marked 24:1 on the oil measuring cup that you received with your unit is the correct amount of two-cycle oil you'd mix with ONE GALLON of gasoline to get the correct fuel/oil ratio.

To fill the fuel tank on the engine: first wait until the engine cools. Then insert a clean funnel into the fuel tank. Slowly pour the fuel/oil mixture into the fuel tank, being careful not to over-fill the fuel tank. (Fill the fuel tank to within 1/2 inch of the top to allow room for expansion.)

STARTING AND STOPPING

⚠ WARNING

NEVER operate the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator inside a closed area. The exhaust fumes contain Carbon Monoxide, an ODORLESS and DEADLY POISONOUS gas.

ALWAYS operate the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator outdoors.

Failure to follow these instructions can result in personal injury.

⚠ WARNING

Do not touch the throttle control lever while starting the engine.

The tines may propel the machine forward if the engine speed is advanced from idle.

Failure to follow these instructions can result in personal injury or property damage.

Starting a Cold Engine

1. Make sure that the spark plug wire is attached to the spark plug.
2. Turn the ignition switch (on the right handlebar) ON. Check that the ignition wire is connected.
3. Move the choke lever to its FULL CHOKE position.



Photo 10: Moving the Choke Lever

4. Support the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator with your left hand on its right handlebar so that it doesn't fall over.

5. Rapidly pull the engine starter rope out. Do not allow the engine starter rope to snap back. Slowly let the engine starter rope be pulled back into the recoil housing.

6. When the engine starts to run, move the choke lever slowly to its CHOKE OFF position.



Photo 11: Starting the Engine

Starting a Warm Engine

⚠ WARNING

The muffler and surrounding areas become very hot during engine operation.

Avoid contact with this area. Failure to follow these instructions could result in personal injury.

1. Move the Choke Lever to its OFF position.
2. Rapidly pull the engine starter rope out. Do not allow the engine starter rope to snap back. Allow the recoil mechanism to pull the engine starter rope back into the recoil housing.
3. If engine fails to start, refer to "Starting a Cold Engine".

Stopping

NOTE

If the ignition switch wire becomes disconnected, you will have to stop the engine by moving the Choke Lever to its FULL CHOKE position.

Do not continue to use the Choke Lever to stop the engine, as continued use may damage the engine. Repair the ignition switch and/or the wire before using your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator again.

To stop the engine, move the ignition switch to its OFF position.

CULTIVATING

1. Move the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator to the area that you will be cultivating.

⚠ CAUTION

NEVER transport the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator when the engine is running.

ALWAYS shut the engine off before transporting.

Failure to follow these instructions could result in personal injury or property damage.

2. Check to make sure that the Ignition Switch is in its ON position. Check to make sure that the ignition switch wire is connected to the push-on terminals on the switch and on the engine.

3. Start the engine. Tilt the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator back onto its drag stake until the tines are off the ground. Squeeze the throttle lever and then release it. The engine should return to its idle speed. The tines should stop rotating or they may rotate slowly. If they do rotate slowly, lower the tines onto some fairly soft soil. The tines should now stop any rotation. If the tines continue to rotate (with the engine still at idle speed) either the idle speed is too high or the centrifugal clutch is malfunctioning. Adjust the idle speed by following the instructions in the Maintenance Section of this Manual.

4. Tilt the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator back so that its tines are clear of the ground. Squeeze the Throttle Lever.

5. Lower the tines until they begin digging. When the tines contact the ground, the cultivator may tend to "walk" forward. Firmly hold the handlebars to prevent the cultivator from moving forward too fast and to allow the rotating tines to dig into the earth.

6. If you need to make any adjustments to the tilling depth:

- a. Turn the engine OFF. Disconnect the spark plug wire.
- b. Remove the hairpin cotter and the clevis pin from the depth stake bracket.
- c. Move the depth stake up for deeper cultivating, or down for shallower cultivating.
- d. Reinsert the clevis pin through the aligned holes (in the depth stake and in the depth stake bracket), and secure it in place with the hairpin cotter.
- e. For quicker cultivating, you can turn the depth stake around so that the angle on the bottom of the depth stake faces forward. This lessens the braking action of the depth stake.

CULTIVATING TIPS

Avoid cultivating in soil that is either too dusty or too wet. Neither of these soil conditions lends itself to proper cultivation.

If the cultivator tends to stay in one spot and just dig a hole instead of moving forward, move the handlebars from side to side to start the machine moving forward again.

When cultivating to get rid of unwanted plants, it is best to use a shallower setting to prevent bringing any weed seeds to the surface.

If you need to cultivate between very closely spaced plants, you can remove the outer tines as instructed in this Section. This will give you a cultivating width of approximately 6 inches.

After you've finished cultivating, check the tines for any tangling. Stop the engine, and disconnect the spark plug wire before untangling the tines. Be sure to reinstall the tines in the same position from which you removed them. If you reinstall the tines incorrectly, they will not work as well and will make the cultivator jump.

To till deeply, hold the cultivator in one spot and allow it to dig as deep as you want.

The drag stake can be removed completely to allow the cultivator to dig deeper.

If a rock should get stuck between the tines and the hood, you can remove the drag stake and use it to pry the rock loose. You can also use a block of wood and a hammer to remove the rock. The tines only turn in one direction (clockwise as viewed from the right side), do not attempt to force them to turn the opposite way.

MAINTENANCE ENGINE LUBRICATION

The engine on your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator is a two-cycle ("two-stroke") engine. Engine lubrication is provided by mixing the proper type and amount of two-cycle oil with the gasoline. Refer to "The Fuel/Oil Mixture" for correct proportions and mixing instructions.

Attempting to run the engine on just gasoline alone (without the correct amount and type of two-cycle oil mixed with it) will cause the engine to overheat and seize up from lack of lubrication.

TRANSMISSION LUBRICATION

After the initial five hours of operation, and every twenty-five hours afterwards, the transmission should be lubricated with grease.

Replacement grease should be a high quality automotive petroleum based grease usually available at most hardware or automotive parts stores.

To lubricate the transmission:

1. Lay the machine on the left side so that the tine shaft is vertical.
2. Remove both right side tines. See "Removal and Installation of Tines", this Section, for instructions.
3. Clean any dirt or debris away from the transmission so that none will enter the transmission.
4. Use a 3/16" allen wrench to remove the air vent screw and the fill plug from the right side of the transmission housing. See Photo 12.

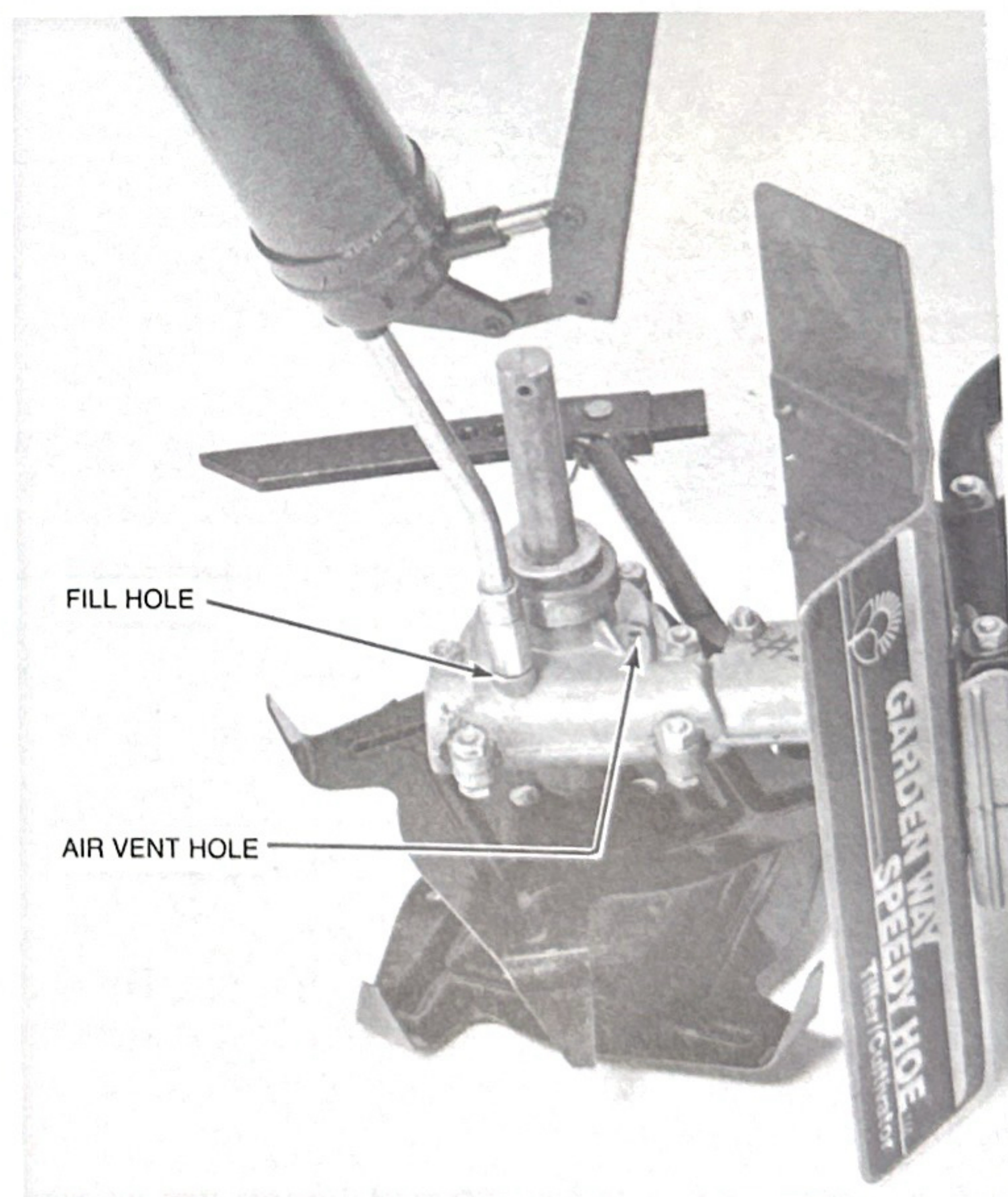


Photo 12: Lubricating the Transmission

5. Place the nozzle of a grease gun onto the rim of the fill hole. Push the nozzle of the grease gun against the opening to seal the nozzle of the gun against the rim of the fill hole.

6. Apply grease into the transmission until grease begins to come from the air vent hole.

7. Reinstall the fill hole plug and the air vent screw. Tighten them securely.

8. Reinstall the right side tines. See "Removal and Installation of Tines", this Section, for reinstallation instructions. Before reinstalling the tines, use a fine sandpaper to clean any rust off the tine shaft. Then coat the tine shaft with a few drops of oil or anti-seize compound to make future tine removal easier.

ENGINE AIR FILTER

After using your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator for 25 hours (more frequently in dirty or dusty areas), the engine air cleaner filter will need to be cleaned and re-oiled.

Use the following instructions:

1. Remove the air cleaner by pulling outward on the cover. Remove the filter and screens. Clean the body of the air filter with a clean rag.
2. Wash the element in a detergent and water solution. Squeeze it dry—do not twist it.
3. Rinse the filter in clean water thoroughly.
4. Clean inside of air cleaner body and cover.

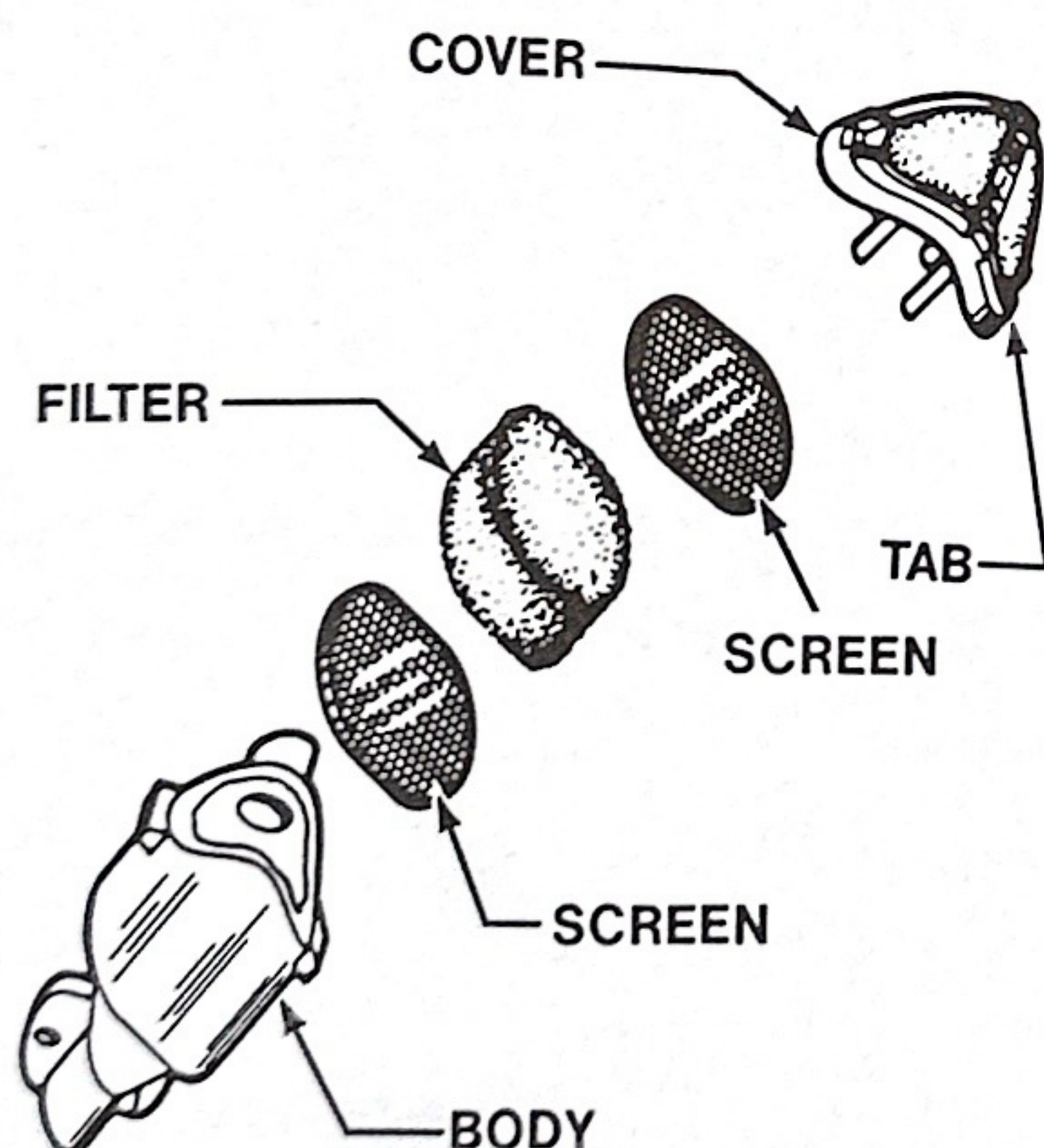


Figure 13. The Engine Air Filter Assembly

6. Re-oil the filter by applying a generous amount of engine oil to the filter. Squeeze the filter vigorously to evenly distribute the oil and to remove any excess oil.

7. Reassemble the filter assembly as shown in Figure 13. Inspect the different parts carefully for signs of deterioration or damage.

CARBURETOR ADJUSTMENT

Your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator is designed to run at full speed when you are tilling or cultivating with it. When you release the throttle lever, the engine should return to its idle speed.

NOTE

The tines may slowly rotate when you have them out of the soil and the engine is idling.

The tines should stop rotating (when engine is idling) when you lower the tines into soft soil.

If the tines continue to rotate (when engine is idling) in soft soil the idle speed may be set too high or the centrifugal clutch may be malfunctioning.

To adjust the carburetor (idle speed):

1. Start the cultivator and allow it to idle for five minutes.
2. Tilt the cultivator back on its drag stake so that the tines aren't contacting the ground.
3. Use a screwdriver to turn the low speed adjustment screw until the tines just begin to rotate. Then slowly turn the low speed adjustment screw the opposite way until the tines stop turning.



Photo 14: The Carburetor and Its Adjusting Screws

The high speed adjustment is pre-set at the factory. It should not be changed except by an authorized Tecumseh Service Dealer. Changing the engine governed speed will void the engine warranty.

The idle speed mixture is pre-set at the factory. Please refer to the Tecumseh Engine Owner's Manual that you received with your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator for adjustment instructions.

TINE REMOVAL AND INSTALLATION

CAUTION

As the tines wear, they may become sharp. Always wear heavy gloves when removing, handling, or reinstalling tines to prevent personal injury.

NOTE

The four tines are not interchangeable. They must be reinstalled in the same position from which you removed them in order for the cultivator to function properly.

If you are replacing tines due to wear, you should replace the entire four as a set, rather than replacing a single, worn tine.

To be sure of reinstalling the tines in the correct order, mark the tines as follows: (Do this the very first time that you remove the tines to be sure of marking them correctly.) Disconnect the spark plug wire. Use a sharp nail or awl to scratch the tine location on the tine (Outer L/H, Inner L/H, Outer R/H, and Inner R/H).

1. To remove the tines:

A. Pull the hairpin cotter out of the hole in the out-board end of the tine shaft. It is easier to first turn the hairpin cotter 90° (so that it "stands" away from the outer tine) and then slip it off, over the tip of the axle, than it is to directly attempt to pull the hairpin cotter out of the hole in the tine shaft.

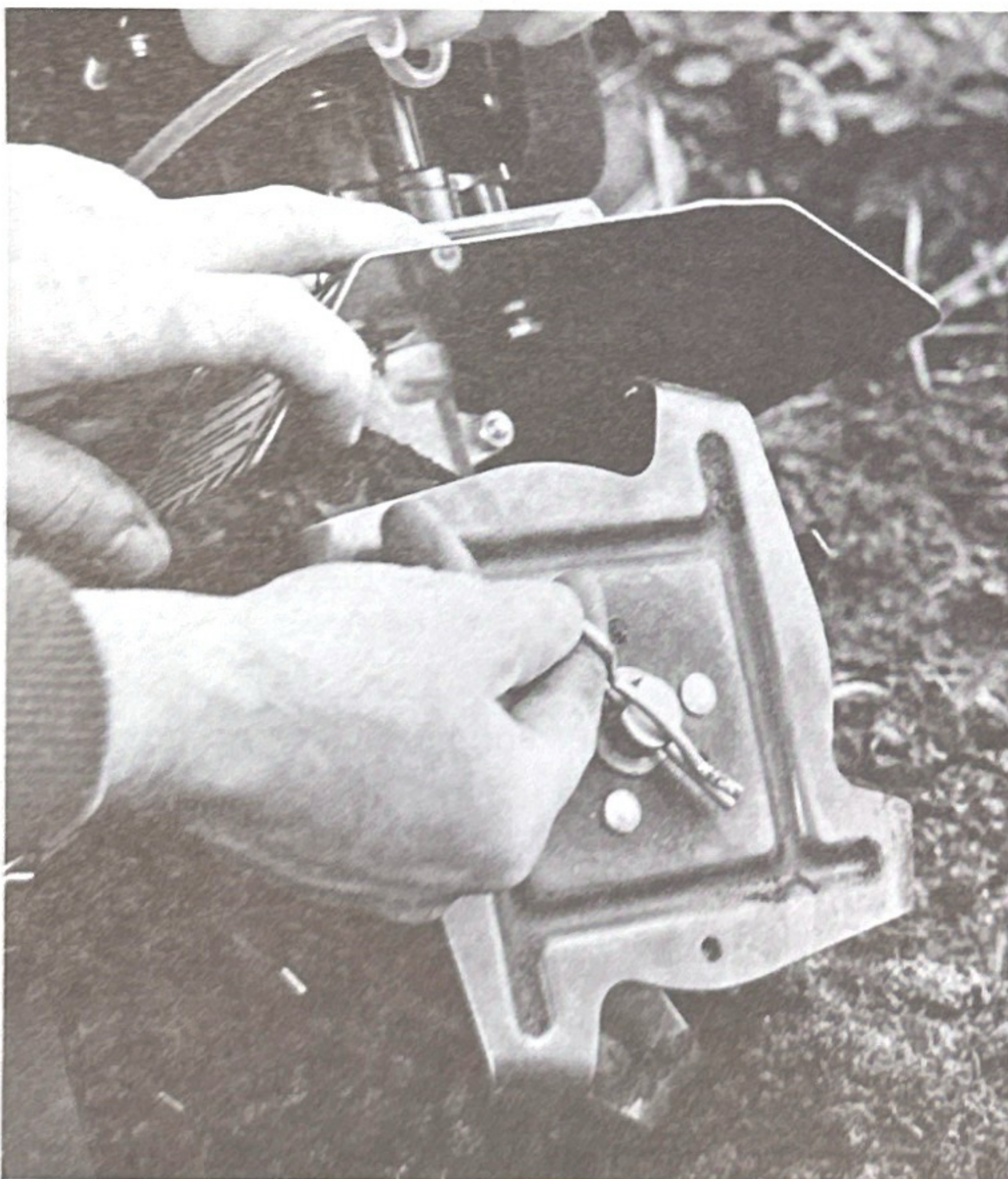


Photo 15: Removing the Hairpin Cotter

B. Slide the two tines off the tine shaft.

NOTE

If you don't plan to reinstall the tines right away, reinsert the hairpin cotter in the hole in the tine shaft to prevent the dust cover and felt washer from accidentally sliding off the tine shaft.

C. Repeat steps A and B for the other side.

2. To reinstall the tines:

NOTE

When reinstalling the tines, refer to Photo 16 for the correct location of each tine.

A. Double check to make sure that the dust cover and felt washer (underneath the dust cover) are in place. They should be on the tine shaft, against the side of the transmission. The set screws on the dust covers should be tight and not allow the dust covers to move. See Photo 18.

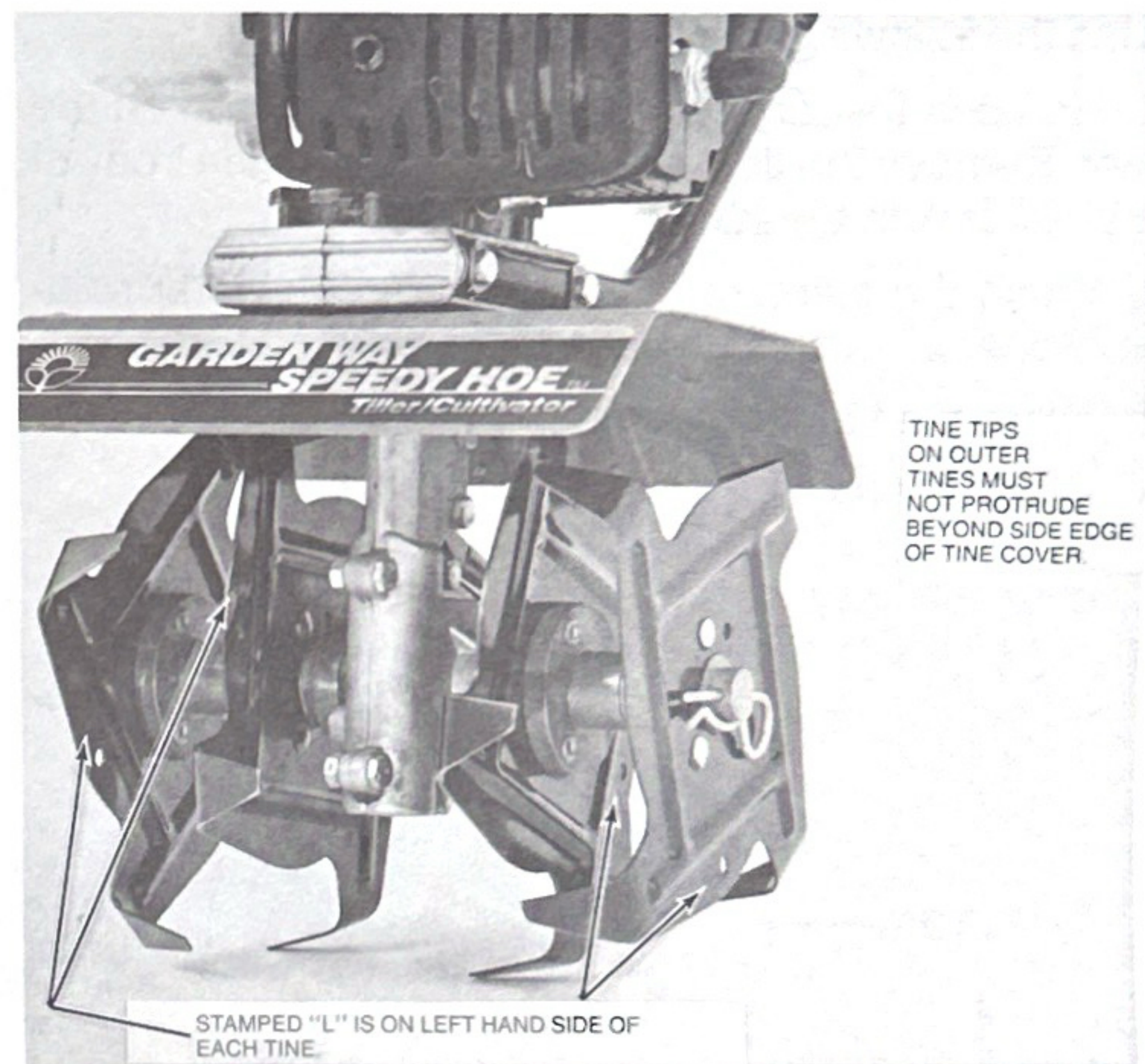


Photo 16: The Correct Position of the Tines

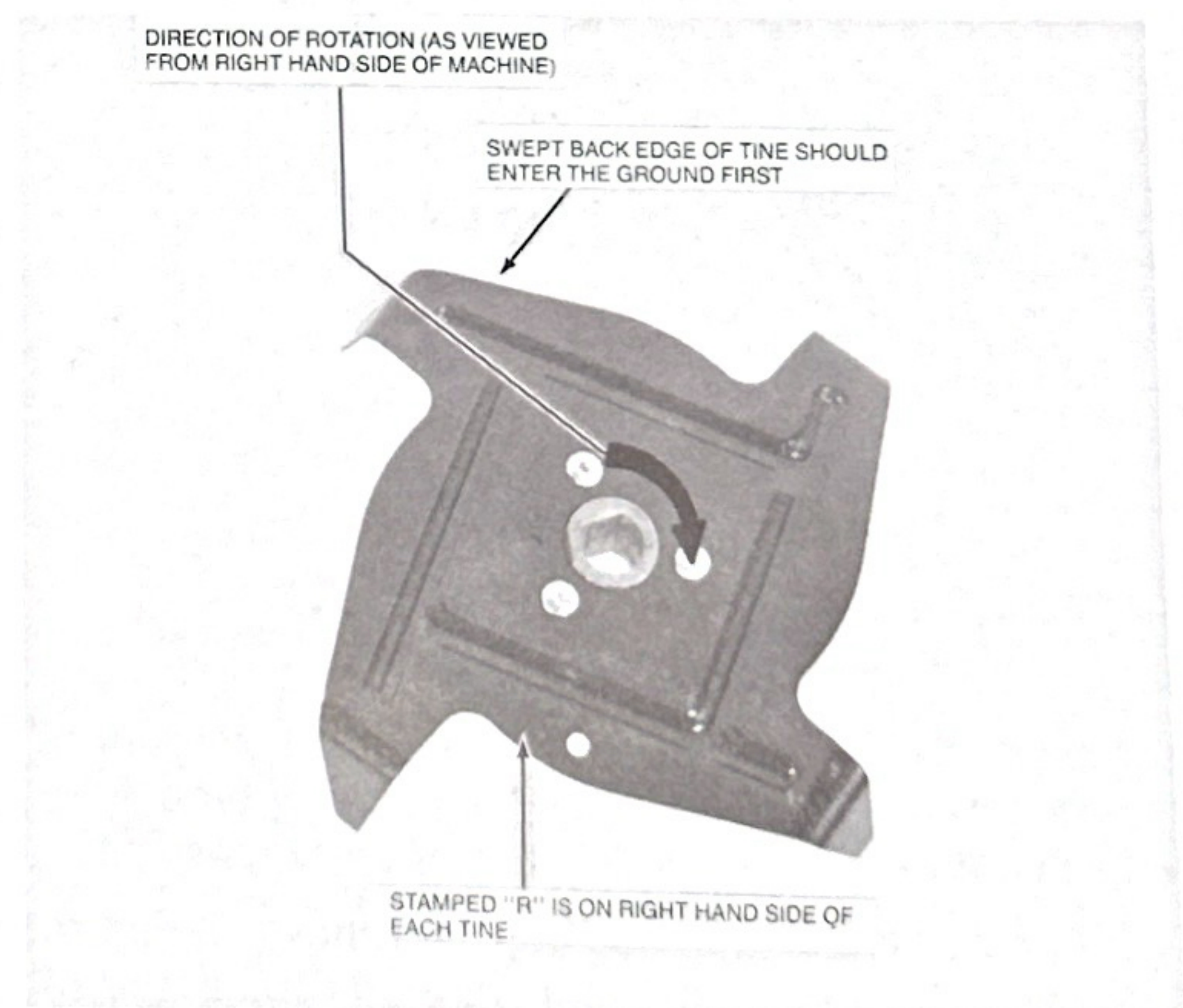


Photo 17: Side View of the Tine

B. Slide the inner tine over the tine shaft.



Photo 18: Installing Inner Tine

C. Slide the outer tine over the tine shaft.

D. Secure the tines to the tine shaft by inserting the hairpin cotter in the outer hole in the tine shaft. It is easier to install the hairpin cotter by inserting it through the hole in the tine shaft 90° from its installed position and then turning it so that it lies flat, against the outer tine.

E. Repeat steps A, B, C, and D for the other side.

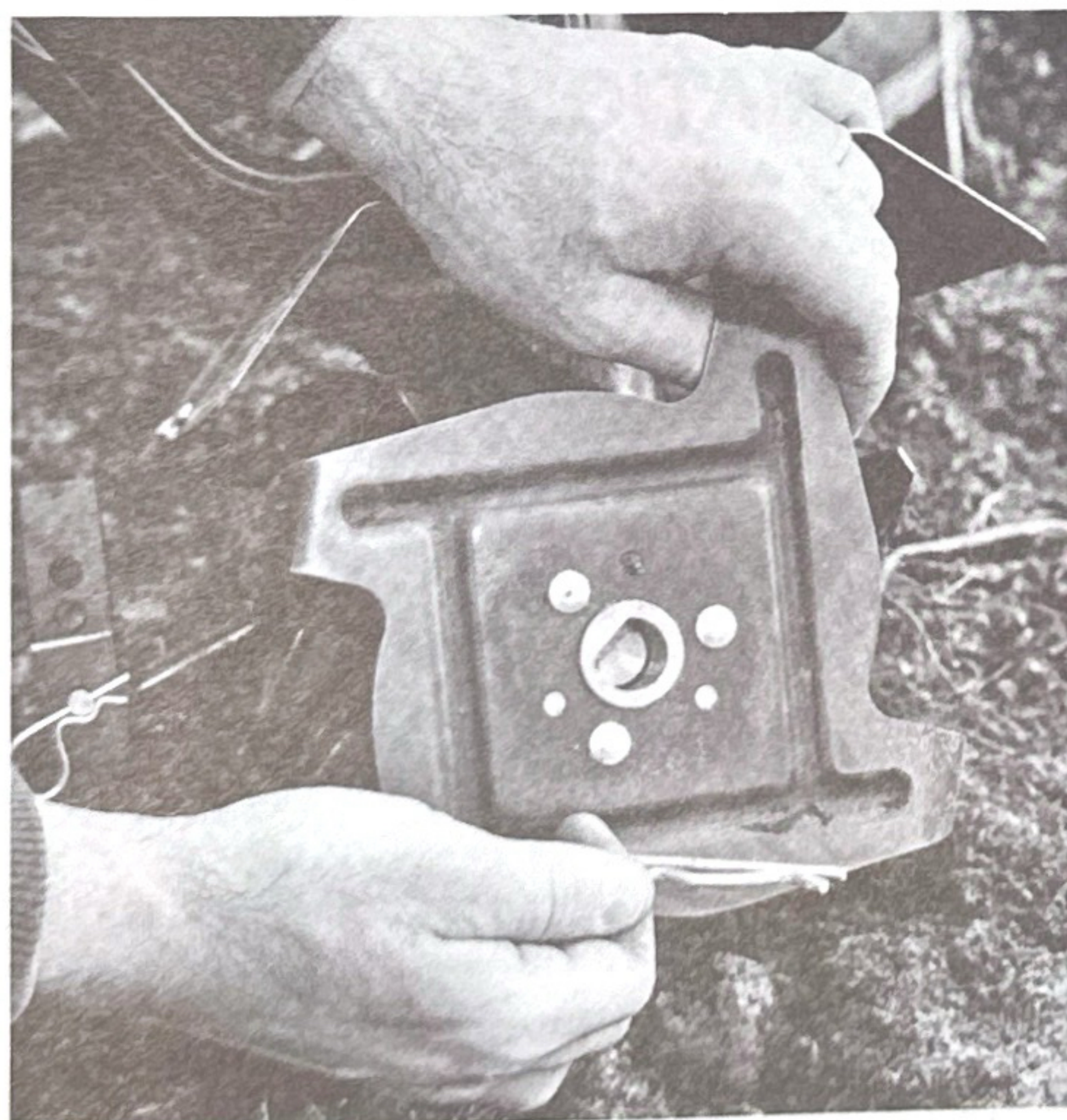


Photo 19: Installing Outer Tine

NARROW CULTIVATING

The two outer tines can be removed to give you a narrower cultivating width of approximately 6 inches.

To do this, simply remove the outer tines (see previous instructions). Then place a tine spacer (included with your machine) over the tine shaft. Secure the spacer in place with the hair pin cotter inserted through the outer hole.

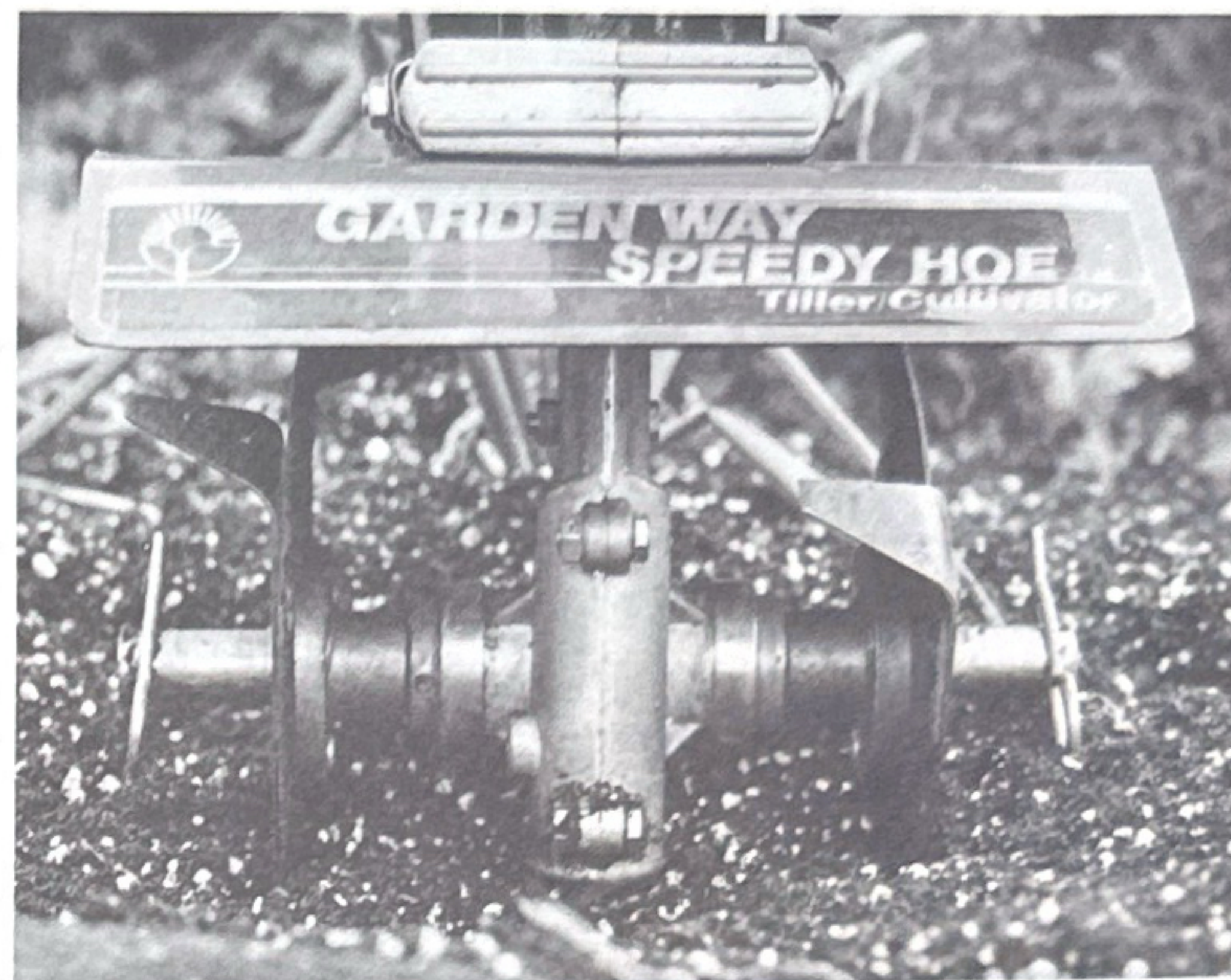


Photo 20: The Tines Set Up for Narrow Cultivating

STORAGE

⚠ WARNING

NEVER store the GARDEN WAY SPEEDY HOE™ Tiller Cultivator with gasoline in its tank.

Never place the GARDEN WAY SPEEDY HOE™ Tiller/Cultivator, when it has gasoline in its tank, near any source of sparks or open flame (such as hot water heaters, space heaters, clothes dryers, etc.)

Failure to follow these directions may lead to property damage or personal injury.

To prepare your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator for extended storage:

1. Drain all the old oil/fuel mixture from the gas tank.
2. Start the engine and run it until it runs out of fuel.
3. Allow the engine to cool, then clean any debris from the cooling fins, engine, and linkage.
4. Remove the spark plug. Pour a few drops of two-cycle engine oil into the spark plug hole. Pull the recoil starter rope handle four or five times. This will distribute oil over the cylinder walls.
5. Reinstall the spark plug.
6. Cover the engine and store the machine in a dry place.

MAINTENANCE CHECKLIST

	Before each use	Frequently	Every 25 hours of use	Every 75 hours of use	After Season
Check engine switch wire for security.	X				
Make sure that air cleaner assembly is secured.	X				
Check all nuts and bolts for tightness.		X			
Clean cooling system by removing all debris from cylinder fins and carburetor levers.		X			
Lubricate the transmission.*			X		X
Remove, clean, re-oil and reinstall air filter.			X		
Have authorized Tecumseh Service Dealer clean engine exhaust ports.				X	
Clean debris from entire unit.					X
Lubricate tine shafts.					X

* After initial 5 hours of use.

PARTS ORDERING INFORMATION

If you should ever need any replacement parts for your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator, please use the exploded view to determine which parts you need.

When calling for parts, call toll-free from:

All states except Alaska
1-800-833-6990

Alaska
(Collect) 0-518-235-6010

Canada (Garden Way Canada)
Local (416 Area Code) 624-8423

From Ontario & Quebec 1-800-387-3351

From Western Canada & the Maritime Provinces
1-800-387-3316

If you would rather write, our mailing address is:

In the U.S.A.

Garden Way Manufacturing Co.
102nd Street & 9th Avenue
Troy, New York 12180

In Canada

Garden Way Canada, Inc.
1515 Matheson Blvd., Unit B11
Mississauga, Ontario L4W 2P5

Our Hours Are (Eastern Standard Time)

In the U.S.A.

Monday through Friday: 8 a.m. to 7 p.m.
Saturday: 9 a.m. to 4 p.m.

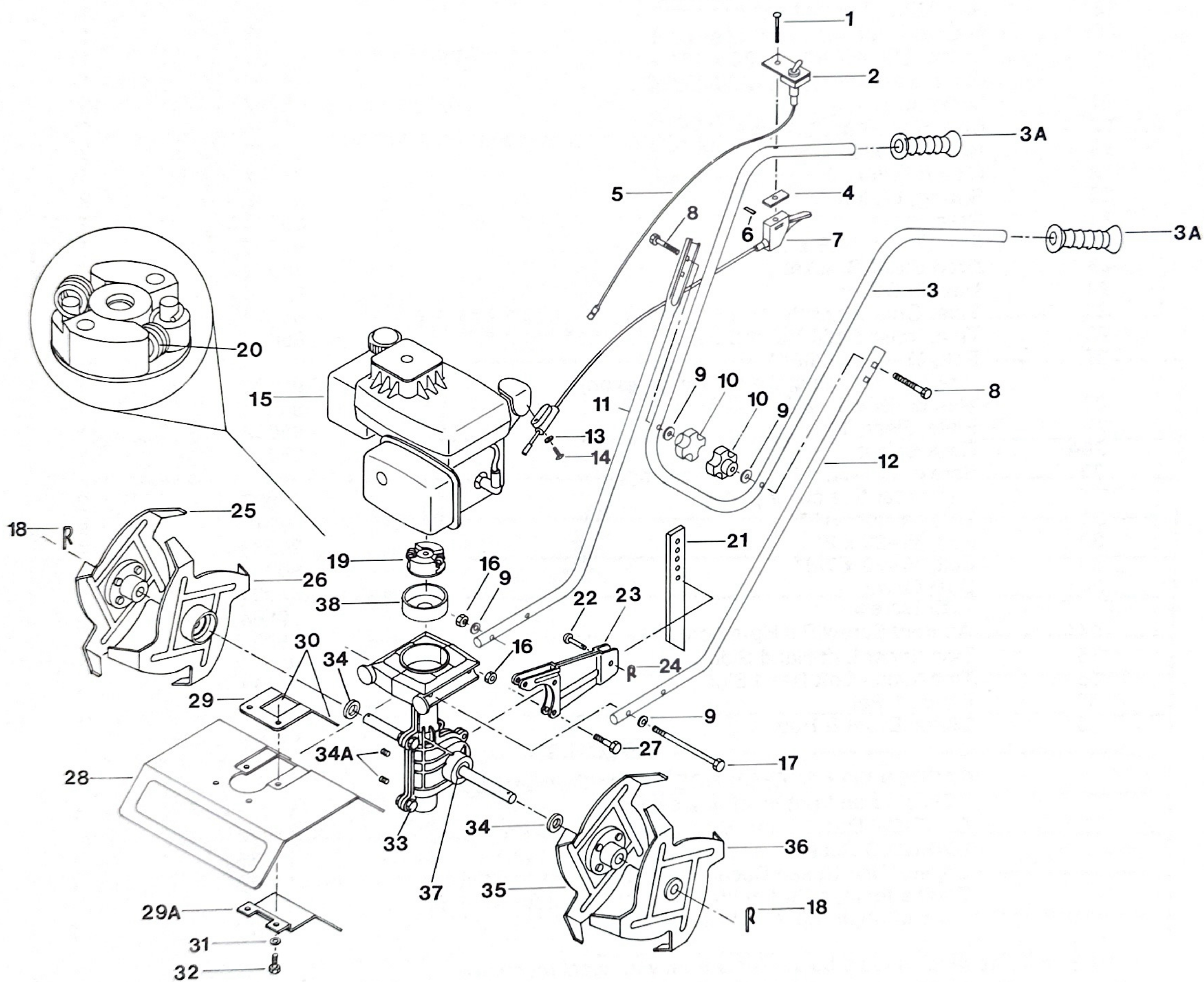
In Canada

Monday through Friday: 8 a.m. to 5 p.m.

When ordering parts, please have the following information close at hand, or include it in your letter:

1. The Part Number of the part you need.
2. The Part Description
3. The Quantity needed
4. The Serial Number of your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator.

EXPLODED VIEW OF THE GARDEN WAY SPEEDY HOE™ TILLER CULTIVATOR



Ref. No.	Description	Part No.	Quantity
1	Screw, 10-24 x 1 3/8, Panhead*	9570	1
2	Switch, Engine Ignition, W/Plate	96506	1
	Bracket, Switch	85002	1
3	Handlebars, Upper, with Grips and Decals	85055	1
3A	Grip, Handlebar	97030	2
4	Spacer, Rectangular Rubber	85051	1
5	Wire, Engine Ignition On/Off	96500	1
6	Nut, Rectangular	92007	1
7	Lever and Cable Assembly, Throttle	85047	1
8	Bolt, Carriage, 5/16-18 x 1 5/8*	90032	2
9	Curved Washer	85052	6
10	Knob, Handlebar	97031	2
11	Handlebar, Lower Right	85022	1
12	Handlebar, Lower Left	85021	1
13	Washer, Flat #8*	94008	1
14	Screw, Hex Head, #8-32 x 1"*	90034	1
15	Engine, Tecumseh TC-200-2026C		1
16	Locknut, 1/4-20*	03207	10
17	Bolt, Hex Head, 1/4-20 x 4 1/2*	90036	2
18	Hairpin Cotter	97027	2
19	Clutch Rotor	85027	1
20	Spring, Clutch	97032	2
21	Drag Stake	85003	1
22	Pin, Clevis, 5/16 x 7/8	97025	1
23	Drag Stake Bracket	85001	1
24	Hairpin Cotter	97026	1
25	Tine, Outer Right Hand Side	85013	1
26	Tine, Inner Right Hand Side	85012	1
27	Bolt, 1/4-20 x 1 1/8"*		
	(attaches drag stake to Transmission)	90031	3
28	Tine cover w/Decals	85056	1
29	Plate, Rear, Tine Cover	85009	1
29A	Rock Shield	85008	1
30	Screw, #10-32 x 1/2", Self Tapping, (for rear tine cover plate)*	90035	2
31	Lockwasher, 1/4"*	9910	4
32	Bolt, 1/4-20 x 2"	90033	4
33	Bolt, 1/4-20 x 7/8"	90030	5
34	Dust Cover	85004	2
	Setscrew	9564	2
34A	Air Vent Screw/Fill Hole Screw	85031	2
35	Tine, Inner Left Hand Side	85010	1
36	Tine, Outer Left Hand Side	85011	1
37	Washer, Felt	94007	2
38	Clutch Drum & Hub	85054	1
DECALS			
	GARDEN WAY SPEEDY HOE™ Tiller/Cultivator Logo (located on front lip of tine cover)	11073	1
	CAUTION Decal (located on rear of tine cover)	11074	1
	WARNING Decal (located on rear of tine cover)	11075	1
	Engine/Tine Speed Decal (located on right handlebar)	11076	1
	Engine Ignition Switch Identification Decal (located on top of upper right handlebar)	11077	1

* Denotes items which should be available from your local hardware store, as well as being available from Garden Way.

Kits and Accessories

Tine Spacers (replaces outer tines when narrow cultivating)	85049	2
Cup, Oil Measuring	85048	1
Tine Replacement Kit (Contains Ref. No.'s 25, 26, 35, 36, [two] 18, and [two] 37)	85059	1
Transmission Assembly	85029	1
Tie Strap, 6", Nylon	97029	2
Tine Spacer Kit	85058	1

SPECIFICATIONS

Maximum Height: 51"

Height (without handlebars): 17¼"

Width (at handlebar grips): 16¼"

Tilling Width: Approx. 9"

Tilling Width (With outer tines removed): Approx. 6"

Tines: Stamped steel, heat-treated; non-interchangeable

Controls: Engine Steel/Tine Speed Lever (on right hand handlebar)

Engine Ignition Switch (on right hand handlebar)

Engine Choke Lever (underneath carburetor)

Depth Stake (at rear of tine hood)

Starting System: Manual rope starter; automatic rewind

Fuel Tank Capacity: 1 pint

Engine Model: Tecumseh TC-200-2026C

Engine Type: 2 cycle (2 stroke); air cooled

Engine Displacement: 32.8cc (2 cu. in.) 1.6 HP

Maximum Engine RPM: 5200

Carburetor: Walbro All Position Diaphragm

Fuel Mix: 24:1 unleaded (or regular) gasoline and a good brand of 30 or 40 weight two cycle air cooled engine oil. See page 6 in this Manual for specific instructions.

Engine Lubrication: Two cycle engine oil that is mixed with the gasoline. See “Fuel Mix” (above) and Page 6 in the Manual for additional information.

Spark Plug: Champion CJ8Y; Champion RCJ8Y for Canadian Units

Spark Plug Gap: .030 inch

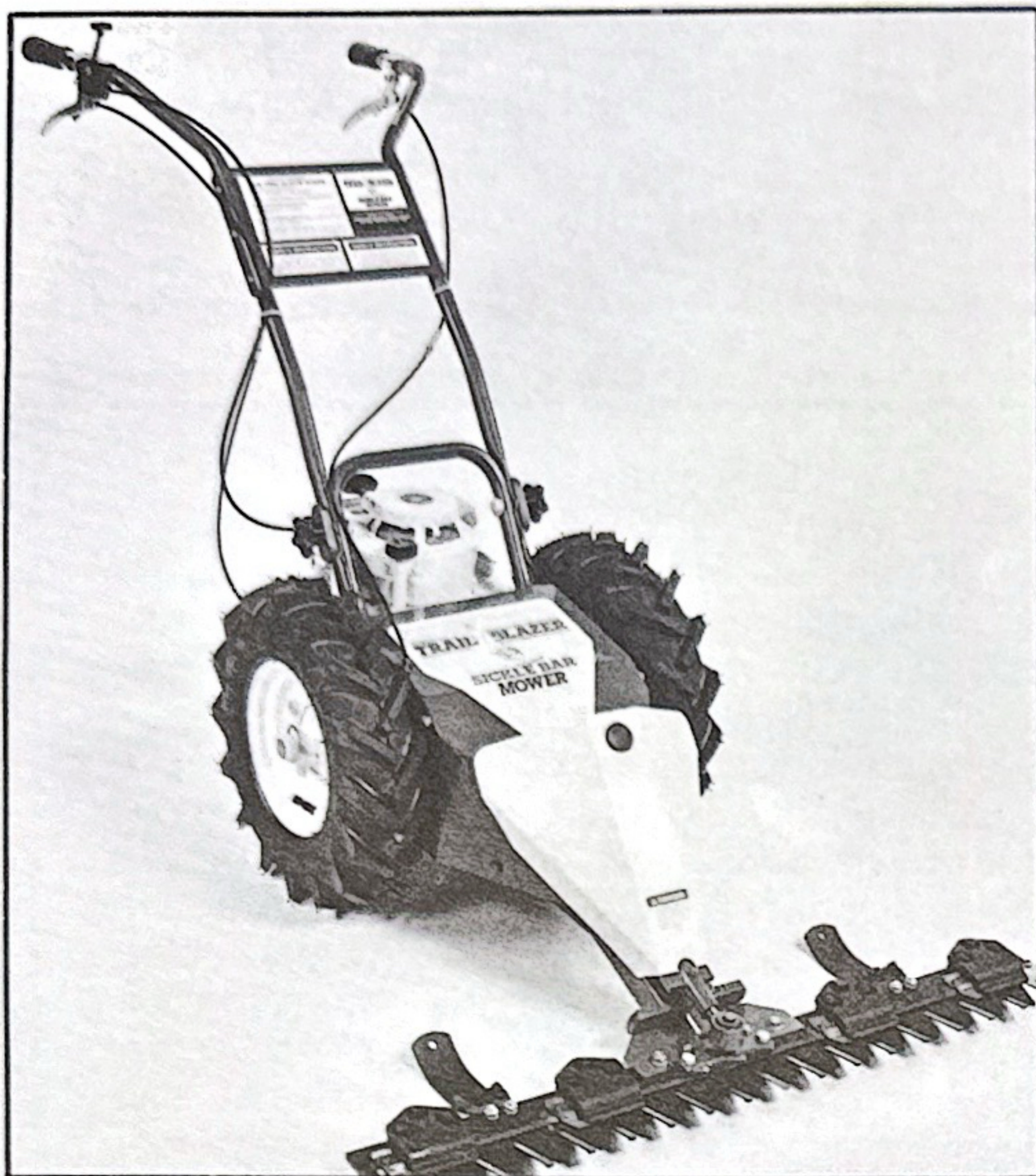
MAINTENANCE RECORD

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MAINTENANCE RECORD (CONT'D.)

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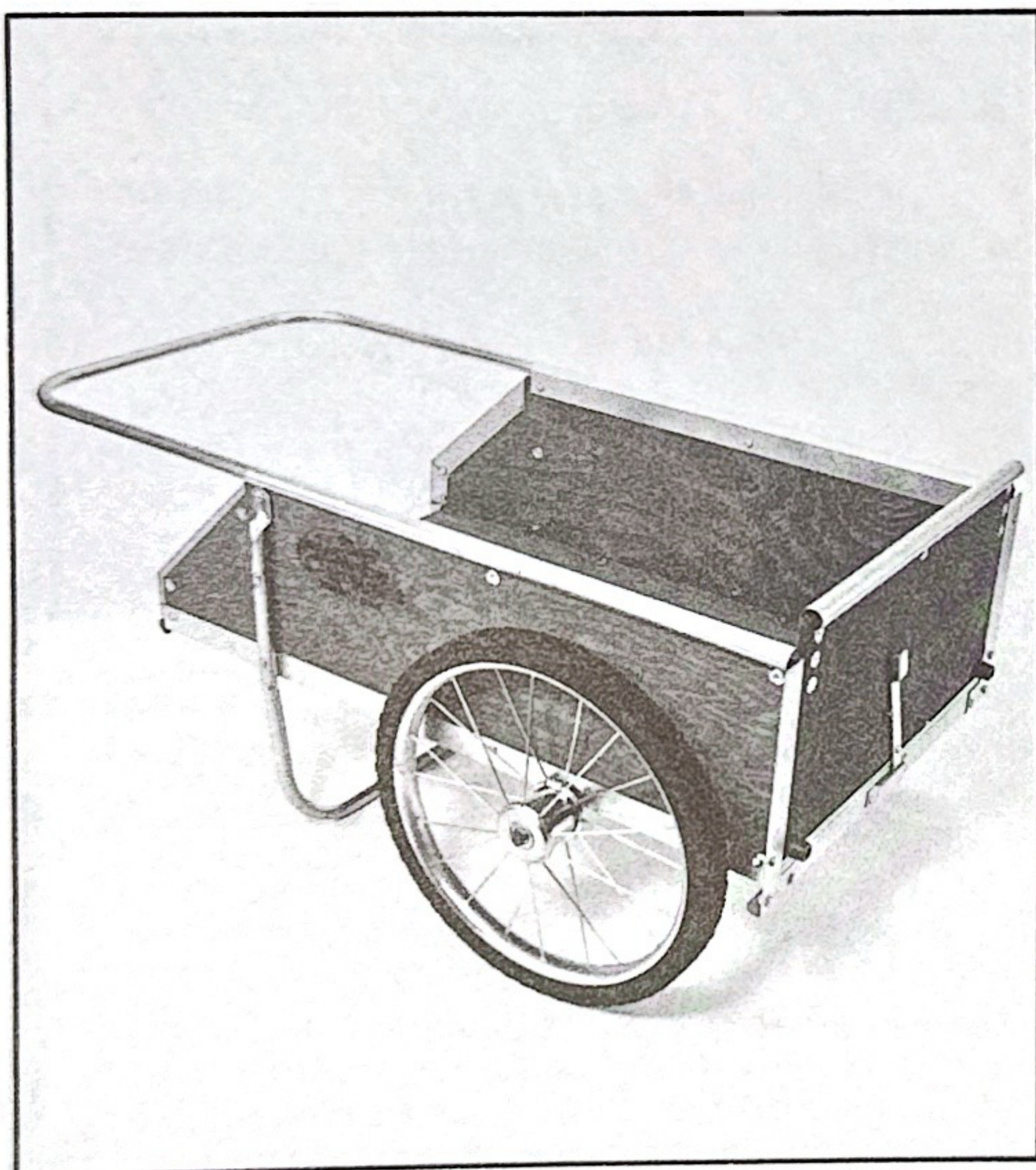
**HAVE YOU SEEN THESE OTHER
FINE GARDEN WAY PRODUCTS?**



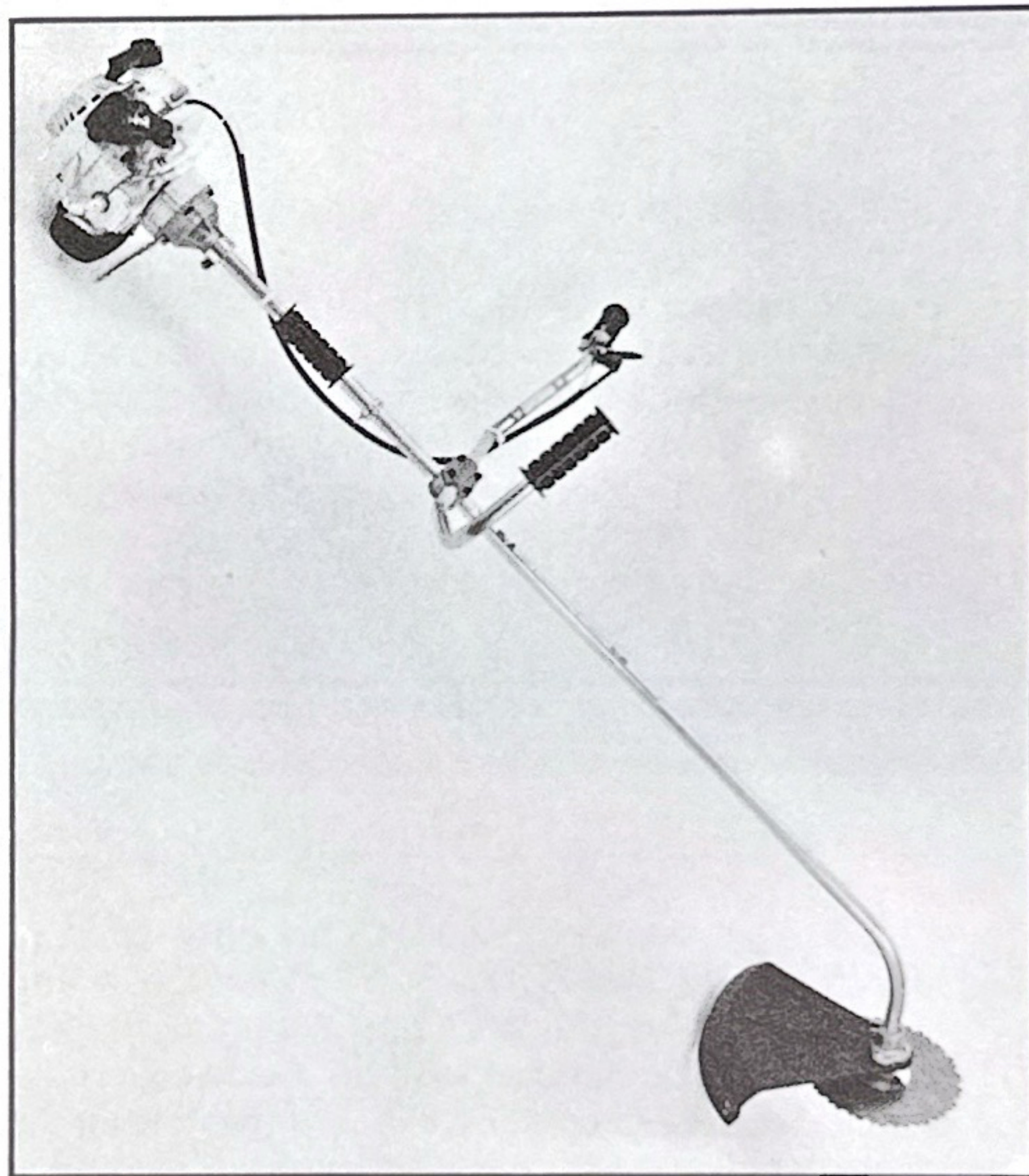
TRAILBLAZER SICKLEBAR MOWER



TUFF-CUT HIGH WHEEL MOWER



THE GARDEN WAY CART



THE BRUSHCUTTER

If you would like more information on these products, call or write to us. Our addresses and TOLL-FREE phone numbers are on the back of this Manual.

OUR 4 WEEK "NO-RISK" TRIAL OFFER

Use your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator for 4 weeks as often as you like, and then decide for yourself. If for any reason you are not satisfied with the product within 4 weeks from the time you receive it, notify us and return it. We will refund the original purchase price you paid for the product plus return shipping.

THREE YEAR LIMITED WARRANTY

Your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator has been carefully inspected and tested at the factory. Garden Way, or any authorized Garden Way Dealer, will repair or replace at no cost to the original purchaser for labor or materials, for a period of (3) three years from the original date of purchase, any parts which shall be determined to be defective by Garden Way upon examination. The warranty for commercial use is (90) ninety days. The engine is warranted separately by the engine manufacturer for (1) one year (call or write for details).

In the event of a defect during the warranty period, the original purchaser is to contact Garden Way, 102nd Street & 9th Avenue, Troy, New York 12180, or any authorized dealer, for the proper warranty procedures. Garden Way reserves the right to have the customer return any defective part before repair or replacement. Garden Way will pay any shipping back to the customer of all warranty replacement items (other transportation costs are the customer's responsibility). This warranty presumes reasonable care of the product and doesn't cover misuse, neglect, or accident.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

LIFETIME LIMITED WARRANTY ON TINES

We guarantee the tines against breakage for the life of your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator. Garden Way or any authorized Garden Way Dealer, will replace any tine that breaks under normal usage during the life of that machine.

If a tine ever breaks, simply notify Garden Way, 102nd Street & 9th Avenue, Troy, New York 12180, or any authorized dealer, for the proper replacement procedures. Garden Way reserves the right to have the customer return any defective tines before replacement. Garden Way will pay any shipping costs back to the customer of all warranty replacement tines (other transportation costs are the customer's responsibility).

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

OUR LIFETIME "CUSTOMER CARE" POLICY

Your satisfaction is our #1 priority—so if you **ever** have any problems or concerns about your GARDEN WAY SPEEDY HOE™ Tiller/Cultivator, for the life of that machine, **please call us** and let us make it right for you! We'll go out of our way to make sure you're happy with your purchase, and with us.

Whether you need service help, advice to help you garden more successfully, or tips on the best way to use your new machine, we're never farther away than your telephone, and we're always glad to hear from you.

GARDEN WAY MANUFACTURING COMPANY
102nd Street and 9th Avenue, Troy, New York 12180
Phone Toll-Free: (800) 833-6990
From Alaska, Call Collect (518) 235-6010

GARDEN WAY CANADA
1515 Matheson Blvd., Unit B11
Mississauga, Ontario L4W 2P5
Local (416 area code) 624-8423
From Ontario & Quebec: (800) 387-3351
From western Canada & the Maritime Provinces: (800) 387-3316