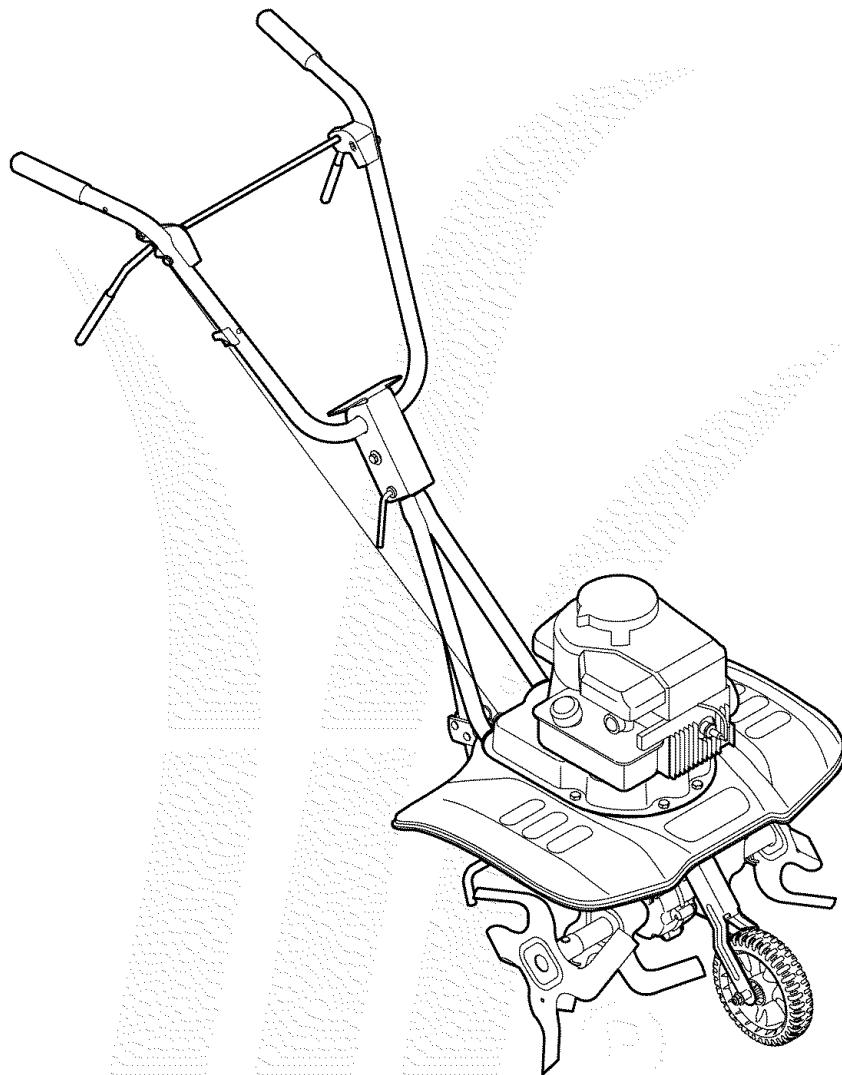


# OPERATOR'S MANUAL



## Front Tine Tiller — Model 250

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### IMPORTANT

**READ SAFETY RULES AND INSTRUCTIONS CAREFULLY BEFORE OPERATION**

**Warning:** This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 361131 Cleveland, Ohio 44136-0019.

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This Operator's Manual is an important part of your new tiller. It will help you assemble, prepare, and maintain the unit for best performance. Please read and understand what it says.

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## Finding and Recording Model Number

BEFORE YOU BEGIN ASSEMBLING YOUR NEW EQUIPMENT, please locate the model plate on the equipment and copy the information to the sample model plate provided to the right. You can locate the model plate by looking at the rear of the tine shield. This information is important for use when visiting the manufacturer's web site, obtaining assistance from the Customer Support Department, or when communicating with an authorized service dealer.



## Customer Support

Please do *NOT* return the unit to the retailer from which it was purchased, without first contacting Customer Support.

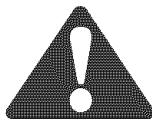
If you have difficulty assembling this product or have any questions regarding the controls, operation, or maintenance of this unit, you can seek help from the experts. Choose from the options below:

- Visit [mtdproducts.com](http://mtdproducts.com). Click on the Service & Support menu option.
- Phone a **Customer Support Representative** at 1-800-800-7310.
- The **engine manufacturer** is responsible for all engine-related issues with regards to performance, power-rating, specifications, warranty and service. Please refer to the engine manufacturer's Owner's/Operator's Manual, packed separately with your unit, for more information.

MTD International	Award Winning Products	Our Company	Service & Support	Contact Us	Privacy Policy
			Service & Support Product Registration		

**MTD** MADE IN U.S.A.

Product Menu



**WARNING:** Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to State of California to cause cancer and birth defects or other reproductive harm.

**DANGER:** This machine was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

## Operation

### Safe Handling Of Gasoline:

1. To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite.
2. Wash your skin and change clothes immediately.
3. Use only an approved gasoline container.
4. Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.
5. Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
6. Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
7. Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
8. Never fuel machine indoors because flammable vapors will accumulate in the area.
9. Never remove gas cap or add fuel while engine is hot or running. Allow engine to cool at least two minutes before refueling.
10. Never over fill fuel tank. Fill tank to no more than  $\frac{1}{2}$  inch below bottom of filler neck to provide for fuel expansion.
11. Replace gasoline cap and tighten securely.
12. If gasoline is spilled, wipe it off the engine and equipment. Move unit to another area. Wait 5 minutes before starting engine.
13. Never store the machine or fuel container near an open flame, spark or pilot light as on a water heater, space heater, furnace, clothes dryer, or other gas appliances.
14. To reduce fire hazard, keep mower free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel soaked debris.
15. Allow a mower to cool at least 5 minutes before storing.

### General Operation

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to disengage them quickly and stop the machine.

3. Never allow children under 14 years old to operate this machine. Children 14 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent.
4. Never allow adults to operate this machine without proper instruction.
5. Keep bystanders, helpers, pets, and children at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
6. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, and other foreign objects which could be tripped over and cause personal injury.
7. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Loose fitting clothes or jewelry can be caught in movable parts. Never operate this machine in bare feet or sandals.
8. Disengage clutch levers and shift (if provided) into neutral (N) before starting the engine.
9. Never leave this machine unattended with the engine running.
10. Never attempt to make any adjustments while engine is running, except where specifically recommended in the operator's manual.
11. To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite. Wash your skin and change clothes immediately.
  - a. Use only an approved gasoline container.
  - b. Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
  - c. Never fuel machine indoors.
  - d. Never remove gas cap or add while the engine is hot or running.
  - e. Allow engine to cool at least two minutes before refueling.
  - f. Never over fill fuel tank. Fill tank to no more than  $\frac{1}{2}$  inch below bottom of filler neck to provide space for fuel expansion.
  - g. Replace gasoline cap and tighten securely.
  - h. If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.

2

## Safe Operation Practices



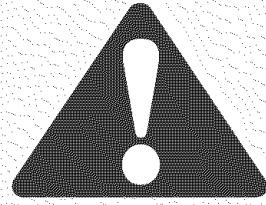
### WARNING

This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol,

**HEED ITS WARNING!**

# 2

## Safe Operation Practices



### WARNING

This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others.

Read and follow all instructions in this manual before attempting to operate this machine.

Failure to comply with these instructions may result in personal injury.

When you see this symbol,

#### HEED ITS WARNING!

- i. Never store the machine or fuel container inside where there is an open flame, spark, or pilot light (e.g. furnace, water heater, space heater, clothes dryer, etc.)
- j. To reduce a fire hazard, keep machine free of grass, leaves, or other debris build-up. Clean up oil fuel spillage and remove any fuel soaked debris.
- k. Allow machine to cool at least 5 minutes before storing.
12. Do not put hands and feet near rotating parts. Contact with the rotating parts can amputate fingers, hands, and feet.
13. Do not operate machine while under the influence of alcohol or drugs.
14. Never operate this machine without good visibility or light. Always be sure of your footing and keep a firm hold on the handles.
15. Be careful when tilling in hard ground. The tines may catch in the ground and propel the tiller forward. If this occurs, let go of the handlebars and do not restrain the machine.
16. Exercise extreme caution when operating on or crossing gravel surfaces. Stay alert for hidden hazards or traffic. Do not carry passengers.
17. Never operate the machine at high transport speeds on hard or slippery surfaces.
18. Exercise caution to avoid slipping or falling.
19. Lock down, behind, and use care when in reverse or pulling machine towards you.
20. Start the engine according to the instructions found in this manual and keep feet well away from the tines at all times.
21. After striking a foreign object, stop the engine, disconnect the spark plug wire and ground against the engine. Thoroughly inspect the machine for any damage. Repair the damage before starting and operating.
22. Disengage all clutch levers and stop engine before you leave the operating position (behind the handles). Wait until the tines come to a complete stop before unclogging the tines, making any adjustments, or inspections.
23. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
24. Muffler and engine become hot and can cause a burn. Do not touch.
25. Use caution when tilling near fences, buildings and underground utilities. Rotating tines can cause property damage or personal injury.
26. Do not overload machine capacity by attempting to till soil to deep at to fast of a rate.
27. If the machine should start making an unusual noise or vibration, stop the engine, disconnect the spark plug wire and ground it against the engine. Inspect thoroughly for damage. Repair any damage before starting and operating.
28. Keep all shields, guards, and safety devices in place and operating properly.
29. Never pick up or carry machine while the engine is running.
30. Use only attachments and accessories approved by the manufacturer. Failure to do so can result in personal injury.
31. If situations occur which are not covered in this manual, use care and good judgment. Phone 1-800-800-7310 for Customer Support and the name of your nearest servicing dealer.

### Service

1. Never tamper with safety devices. Check their proper operation regularly.
2. Check bolts and screws for proper tightness at frequent intervals to keep the machine in safe working condition. Also, visually inspect machine for any damage.
3. Before cleaning, repairing, or inspecting, stop the engine and make certain the tines and all moving parts have stopped. Disconnect the spark plug wire and ground it against the engine to prevent unintended starting.
4. Do not change the engine governor settings or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
5. Maintain or replace safety and instruction labels, as necessary.
6. Follow this manual for safe loading, unloading, transporting, and storage of this machine.
7. Never store the machine or fuel container inside where there is an open flame, spark, or pilot light such as a water heater, furnace, clothes dryer, etc.
8. Always refer to the operator's manual for proper instructions on off-season storage.
9. If the fuel tank needs to be drained, do this outdoors.
10. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.

## Assembly

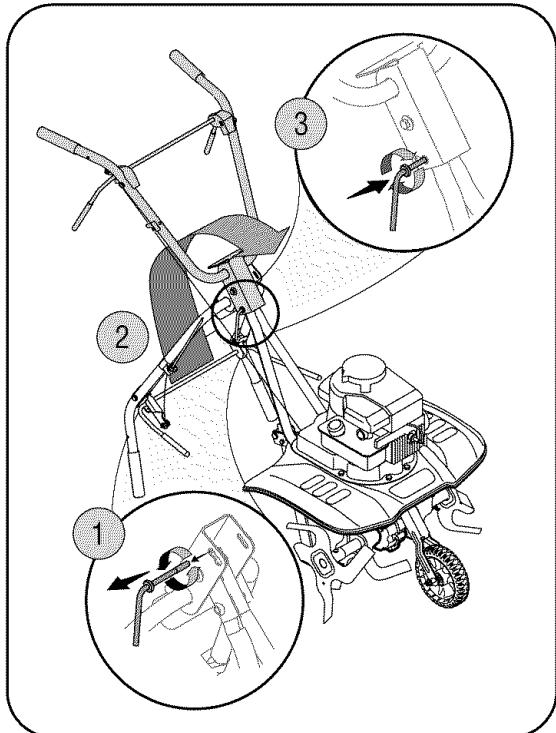


Figure 1 - Assembling the Upper Handle

1. Remove the handle adjustment lever, Step 1 Figure 1.
2. Lift up the upper handle to raise into operation position, Step 2 Figure 1.
3. Reinsert adjustment lever through the front or rear hole (depending on desired setting), and tighten the lever into the lock nut on the retainer bracket.
4. Once the lever has been inserted, the handle can be moved to the desired position and tightened.

# 3

## Setup and Adjustment



**NOTE:** Stand behind the tiller as if you were going to operate it. Your right hand corresponds to the right side of the tiller; your left hand corresponds to the left side of the tiller.

**NOTE:** This operator's manual may cover various models of tillers. The units illustrated may vary slightly from your unit. Follow only those instructions which pertain to your model number.

### IMPORTANT

This unit is shipped without gasoline or oil in the engine. Fill up gasoline and oil as instructed in the accompanying engine manual **BEFORE** operating your machine.

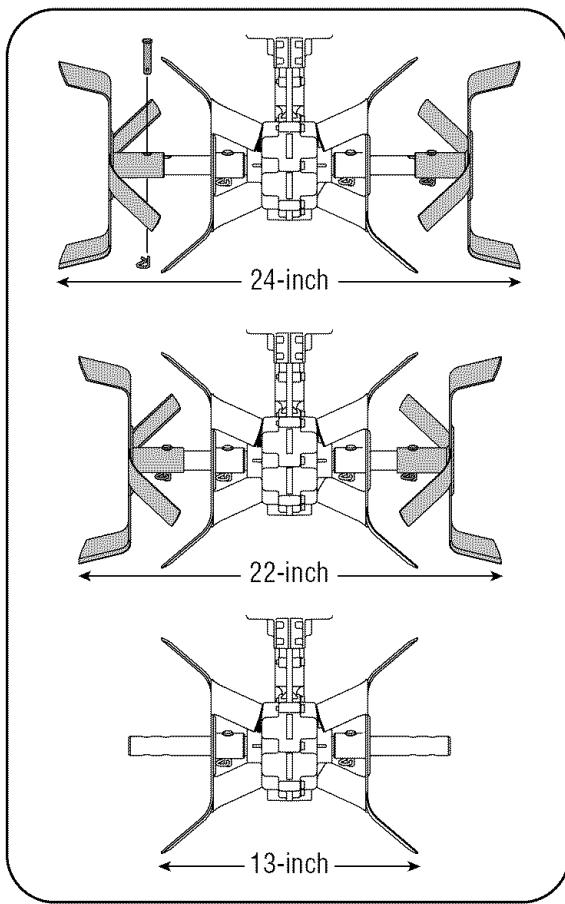


Figure 2 - Tine width adjustment

### Engine Adjustment

Refer to the separate engine manual for engine adjustment instructions.

### Depth Stake Adjustment

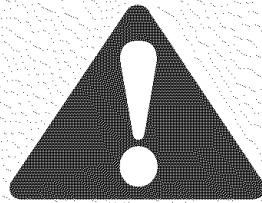
Refer to the Operating section for instructions on adjusting the depth stake.

### Tine Width Adjustment

The tilling width of the unit is 22 inches. Tilling width can increase to 24 inches by removing the clevis and cotter pins, sliding each outer tine out one inch, and securing in this position with the pins. For cultivation, reduce the tine width to 13 inches by removing the outer tines completely, Figure 2.

# 4

## Operating Your Tiller



### WARNING

The tine clutch control mechanism is a safety device. Never attempt to bypass its operations.

Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel the machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes and other sources of ignition.

Keep hands and feet away from the tines. Refer to warning label on the unit.

## Know Your Tiller

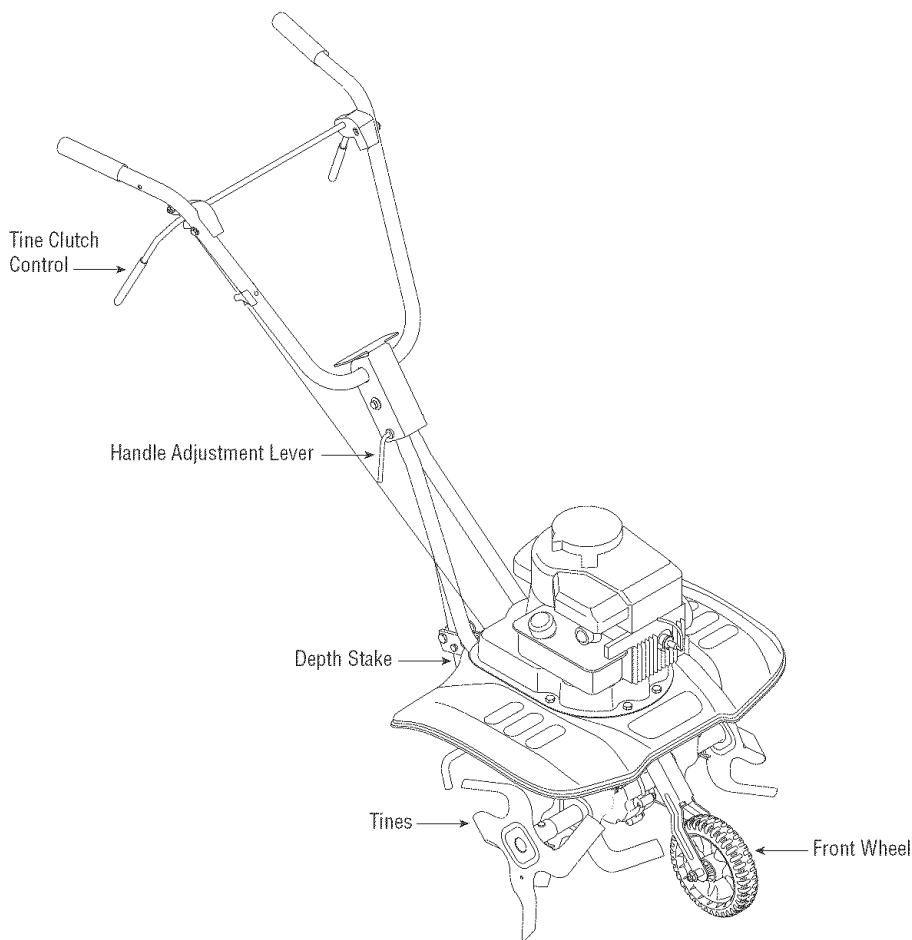


Figure 3 - The major parts of the tiller



**WARNING:** Read, understand, and follow all instructions and warnings posted on the machine and in this manual before operating.

### Tine Clutch Control

The clutch control lever is located on the upper handle, Figure 3. Squeezing the lever against the handle engages the tine drive. Release the lever to stop the tines from turning.

### Depth Stake

The depth stake is located in the rear of the tiller. It controls the tilling depth, Figure 3.

### Handle Adjustment Lever

The handle may be adjusted to the height desired. Loosen the handle adjustment lever a few turns, pivot handle up or down to desired position, then tighten the lever. Figure 3.

### Front Wheel

The front wheel can be raised and lowered for tilling or transport. Refer to the Wheel Position section for instructions.

### Throttle Control

The throttle control lever is located on the engine. It controls the engine's speed and stops the engine.

- With the throttle control pushed completely forward, the carburetor is in START or FAST position. Use maximum engine speed for deep tilling.
- Pull the throttle control back to reduce engine speed to IDLE. Throttle control should be at IDLE for transporting the tiller.
- Pull the throttle completely back to stop the engine.

### Choke Lever

The choke lever is located near the throttle control. It is used to enrich the fuel mixture when starting a cold engine.

### Starter Handle

The starter handle is located on the engine and is used to manually start the engine.

### Engine Controls

See the separate engine manual for additional information and functions of the engine controls.

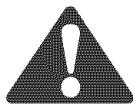


**WARNING:** Read, understand, and follow all instructions and warnings posted on the machine and in this manual before operating.

## Before Starting

### Gas And Oil Fill-Up

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your tiller. Read instructions carefully.



**WARNING:** Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel machine indoors or while the engine is hot or running.

## Starting Engine



**WARNING:** Be sure no one is standing in front of the tiller while the engine is running or being started.

1. Attach spark plug wire to spark plug. Make sure the metal cap on the end of the spark plug is fastened securely over the metal tip on the spark plug.
2. Make sure that the tine clutch control is disengaged.
3. Place the throttle control in the FAST position.
4. Move choke lever to CHOKE position. A warm engine requires little or no choke.
5. Grasp starter handle and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point). Let the rope rewind slowly.
6. Pull rope with a rapid, continuous, full arm stroke. Keep a firm grip on starter handle. Let rope rewind slowly. Do not let starter handle snap back against starter. Repeat until engine starts.
7. When engine starts, move choke lever on engine halfway between CHOKE and RUN. As the engine warms up, move the lever to RUN position.

## Stopping Engine

1. Move throttle control lever to STOP or OFF position.
2. Disconnect spark plug wire from spark plug and ground against the engine.

## Using Your Tiller

Your tiller (also known as a cultivator) is a precision built machine designed for seed bed preparation, cultivating, furrowing and mulching. It is engineered to minimize the hardest work in the vegetable or flower garden, to till the soil for planting and cultivating, and to perform many other useful labor saving tasks in the garden.

## Wheel Position

The tiller is shipped with the wheels adjusted such that the unit sits level. Before tilling, the front wheel must be raised. To do this, pull the wheel bracket assembly forward and lift up, Figure 4. The wheel will move into tilling position. For transporting the tiller, reverse the steps to lower the wheel.

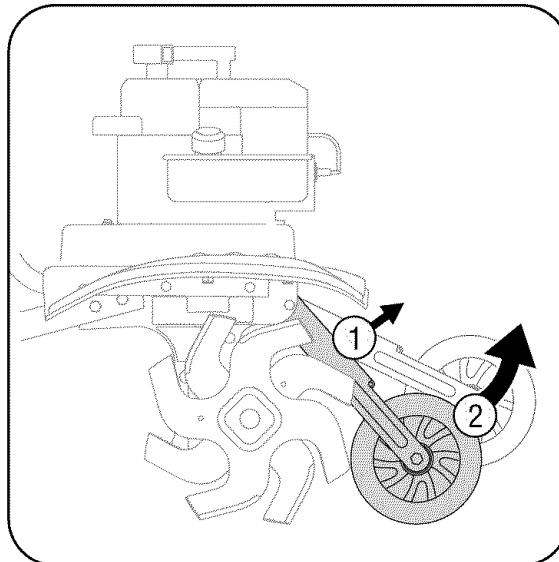


Figure 4 - Wheel Position Adjustment

## Depth Stake Adjustment

The depth stake acts as a brake for the tiller and controls the depth and speed at which the machine will operate. Remove the clevis pin and cotter pin to raise or lower depth stake, Figure 5.

By increasing the depth of the depth stake, the forward speed of the machine is reduced and the working depth is increased. When the depth stake is raised, the working depth of the machine is reduced and the forward speed is increased. The working depth of the machine may be predetermined by setting the depth stake so that the wheels are about four inches from the ground when the tines and depth stake are resting on the ground. This setting will permit a working depth of about four inches. When presetting the working depth, the handles should be adjusted so the hand grips are a little above waist. The tiller will be lower when the tines and depth stake penetrate the ground.

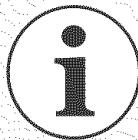
# 4

## Operating Your Tiller



### WARNING

Be sure no one other than the operator is standing near the tiller while starting engine or operating the unit. Never run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains carbon monoxide, an odorless and deadly gas. Keep hands, feet, hair and loose clothing away from any moving parts on engine and tiller.



See your engine manual packaged with your unit for detailed instructions pertaining to starting the engine.

# 4

## Operating Your Tiller

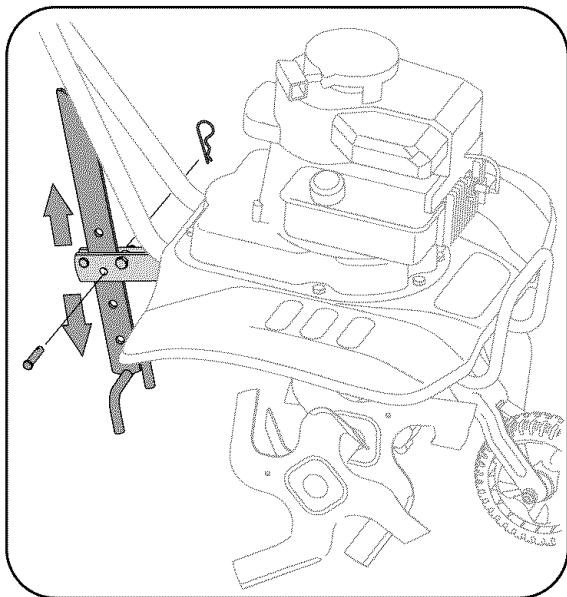


Figure 5 - Depth Stake Adjustment

### Controlling Speed and Tilling Depth

When tilling, leave approximately 8 inches of untilled soil between the first and second tilling paths, then make the third path between the first and second. In some soils, the desired depth is obtained the first time over the garden. In other soils, the desired depth is obtained by going over the garden two or three times. In the latter case, the depth stake should be lowered before each succeeding pass over the garden. Passes should be made across the length and width of the garden alternately. Rocks which are turned up should be removed from the garden area.

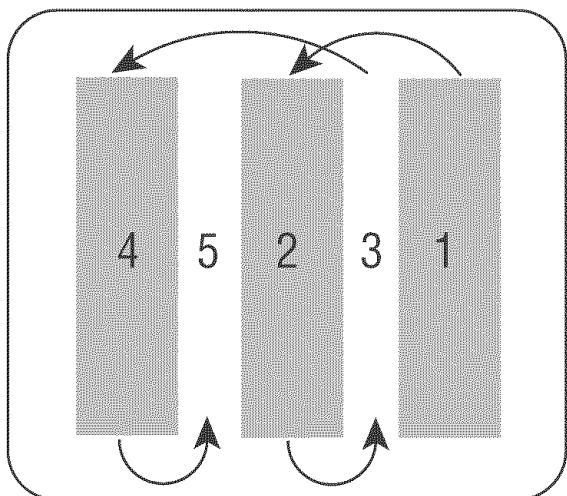


Figure 6 - Recommended tiller paths.

### Handle Pressure

Further control of tilling depth and travel speed can be obtained by variation of pressure on the handles. A downward pressure on the handles will reduce the working depth and increase the forward speed. An upward pressure on the handles will increase the working depth and reduce the forward speed.

The type of soil and working conditions will determine the actual setting of the depth stake and the handle pressure required.

### Transporting the Tiller

To transport the tiller, lower the front wheel, Figure 4, and move the depth stake into the highest position, Figure 7. With the throttle control in SLOW position, the unit will walk freely on the lawn.

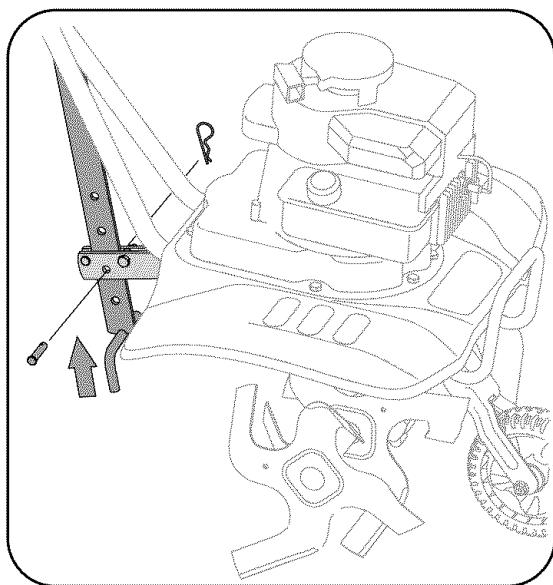


Figure 7 - Raise the depth stake for transport.

### Cultivating

For cultivating, a two to three inch depth is desirable. Setting the depth stake so that the wheels are about two inches above the ground while the tiller is resting on the tines and depth stake will allow the machine to work at cultivating depth. The throttle should be set to control forward movement to a slow walking speed. With the outer tines installed, the working width of the machine is 22 or 24 inches.

For cultivation, this may be reduced to 13 inches by removing the outer tines, refer to the Adjustment Section. When laying out plant rows, be sure to allow enough width to permit cultivation between the rows. In growing corn or similar crops, check-row planting will permit cross cultivation and practically eliminate hand hoeing, Figure 8.

# 4

## Operating Your Tiller

The tiller has many uses other than tilling and cultivating a garden. One of these is the preparation of lawn area for seeding. The tiller will prepare a deep seed bed which will be free of hard untilled spots, allowing a better stand of grass to grow. The tiller is very useful for loosening hard soil for excavation with a shovel; No tedious handwork will be necessary. Your tiller may be used for mixing compost in the pile or for mixing it with the soil in your garden. This should be done after the soil has been broken to the full working depth. The compost should be worked in to a depth of six to seven inches. This may be done by working the length of the garden and then by making separate passes across its width. The addition of decayed organic matter will substantially increase the fertility of your garden. For proper decaying action, fertilizer should be applied and worked in with the mulch materials. Breaking up leaves and straw and mixing it with several inches of soil allows proper aeration of the plant root system and retards the growth of weeds.

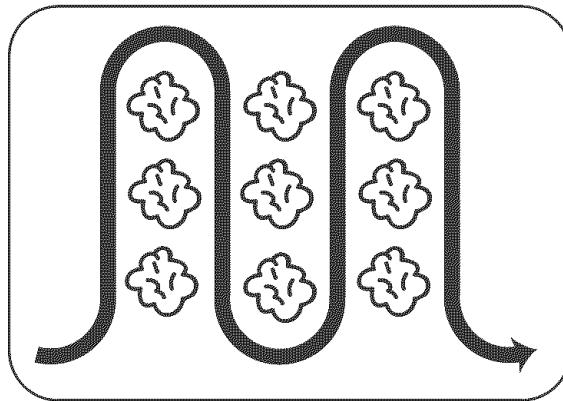
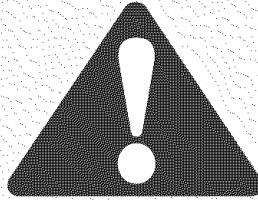


Figure 8 - Allow enough width between rows.

# 5

## Maintaining Your Tiller



### WARNING

Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or doing any kind of maintenance on your machine.



**IMPORTANT:** Never use a pressure washer to clean your tiller. Water can penetrate tight areas of the tiller and its chain case causing serious damage to the unit.

**IMPORTANT:** Never run your engine without the air cleaner completely assembled.



**WARNING:** Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or performing any maintenance on your machine.

### Engine

Refer to the separate engine manual for engine maintenance instructions.

- Maintain engine oil as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.
- Service air cleaner every ten hours under normal conditions. Clean every hour under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced. To service the air cleaner, refer to the separate engine manual packed with your unit.



**IMPORTANT:** Never run your engine without air cleaner completely assembled.

- The spark plug should be cleaned and the gap reset every 25 hours of engine operation. Spark plug replacement is recommended at the start of each tiller season; check engine manual for correct plug type and gap specification.
- Clean the engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation which is essential to engine performance and life. Be certain to remove all dirt and combustible debris from muffler area.

### Lubrication

#### Transmission

The transmission is pre-lubricated and sealed at the factory. It requires no checking. See an authorized service dealer for any service issues.

#### Tine Shafts

Remove tine assemblies and lubricate the tine shafts at least once a season.

#### Wheel Shafts

Remove wheel assemblies and lubricate the axle shafts at least once a season.

### Cleaning Tine Area

Clean the underside of the tine shield after each use. The dirt washes off the tines easier if rinsed off immediately instead of after it dries. Always towel dry the tiller afterwards and apply a light coat of oil or silicone to prevent rusting or water damage.



**IMPORTANT:** Never use a "pressure washer" to clean your tiller. Water can penetrate tight areas of the tiller and its chain case and cause serious damage to the unit.

### Replacing the Belt

Your tiller has been engineered with a belt made of special material for longer life and better performance. It should not be replaced with an off-the-shelf belt. See the retailer from which you purchased your tiller, an authorized MTD Service Dealer, or call 1-800-800-7310 for information regarding price and availability.

- Remove the frame and engine by removing the six screws and lock nuts holding the engine and frame to the shield, Figure 9.

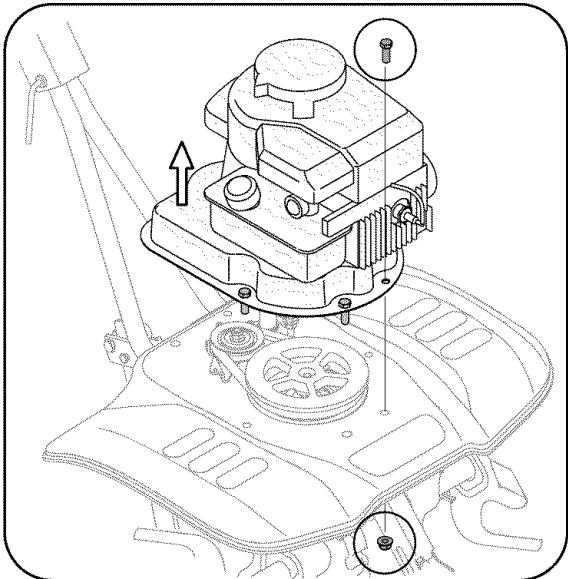


Figure 9 - Remove engine and frame to gain access to the belt.

- Remove the shoulder screw, carriage screw, and nuts from the idler bracket assembly, Step 1 Figure 10.
- Unloop the belt from the pulleys, Step 2 Figure 10.
- Reassemble the new belt and reattach idler pulley to secure in place.
- Reattach frame and engine using the hardware removed earlier.

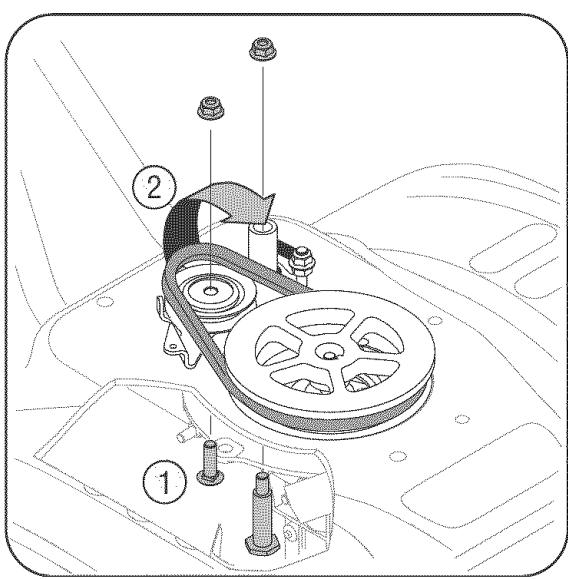


Figure 10 - Replacing the belt.

# 6

## Trouble Shooting



*For repairs beyond the minor adjustments listed here, contact an authorized service dealer.*

Problem	Cause	Remedy
Engine fails to start	<ol style="list-style-type: none"> <li>Spark plug wire disconnected.</li> <li>Fuel tank empty or stale fuel.</li> <li>Throttle control lever not in correct starting position (if equipped)</li> <li>Choke not in ON position.</li> <li>Blocked fuel line.</li> <li>Faulty spark plug.</li> <li>Engine flooding.</li> </ol>	<ol style="list-style-type: none"> <li>Connect wire to spark plug.</li> <li>Fill tank with clean, fresh gasoline.</li> <li>Move throttle lever to start position.</li> <li>Move lever to ON position.</li> <li>Clean fuel line.</li> <li>Clean, adjust gap, or replace.</li> <li>Wait a few minutes to restart, but do not prime (if equipped)</li> </ol>
Engine runs erratic	<ol style="list-style-type: none"> <li>Spark plug wire loose.</li> <li>Unit running on CHOKE.</li> <li>Blocked fuel line or stale fuel.</li> <li>Vent plugged.</li> <li>Water or dirt in fuel system.</li> <li>Dirty air cleaner.</li> <li>Carburetor out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>Connect and tighten spark plug wire.</li> <li>Move choke lever to OFF.</li> <li>Clean fuel line; fill tank with clean, fresh gasoline.</li> <li>Clear vent.</li> <li>Drain fuel tank. Refill with fresh fuel.</li> <li>Clean following engine manual.</li> <li>Refer to engine manual.</li> </ol>
Engine overheats	<ol style="list-style-type: none"> <li>Engine oil level low.</li> <li>Dirty air filter.</li> <li>Air flow restricted.</li> <li>Carburetor not adjusted properly.</li> </ol>	<ol style="list-style-type: none"> <li>Fill crankcase with proper oil.</li> <li>Clean air cleaner.</li> <li>Remove blower housing and clean.</li> <li>Refer to engine manual.</li> </ol>
Tines do no engage	<ol style="list-style-type: none"> <li>Foreign object lodged in tines.</li> <li>Tine clevis pin(s) missing.</li> <li>Belt worn and/or stretched.</li> <li>Pulley and idler not in correct adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>Stop tiller completely, check and discard foreign object.</li> <li>Replace tine clevis pin(s).</li> <li>Replace belt.</li> <li>Take unit to authorized service dealer.</li> </ol>

# 7

## Off Season Storage and Safety Labels



**NOTE:** When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment and especially any springs, bearings, and cables.

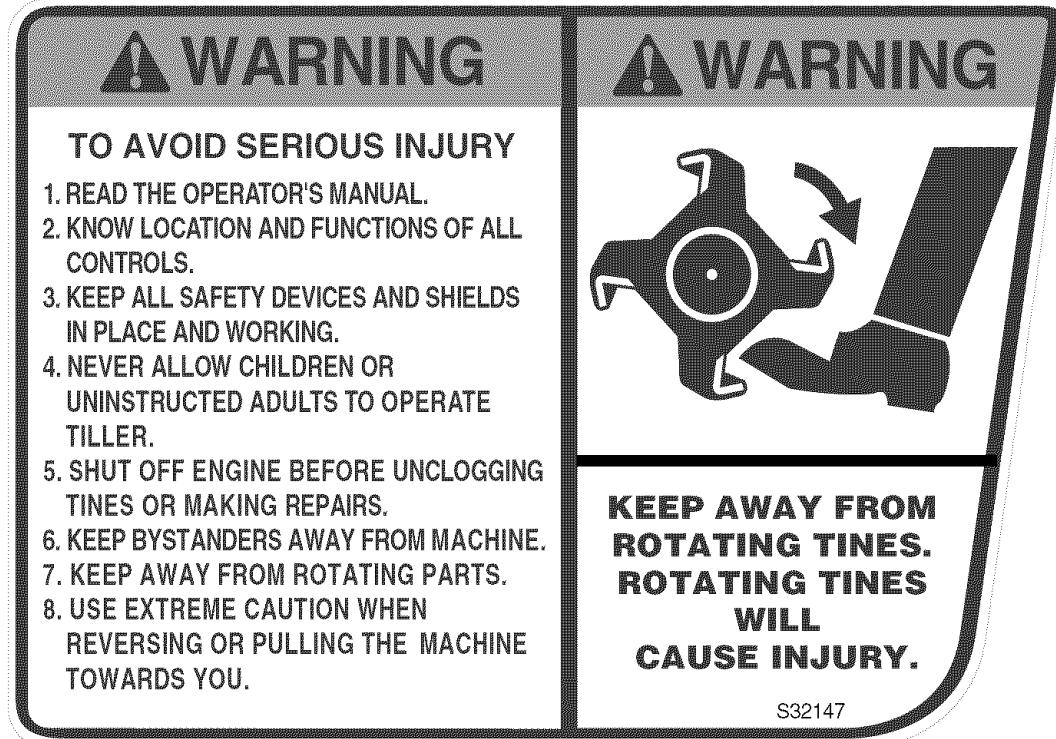
### Off-Season Storage

If the tiller will not be used for a period longer than 30 days, the following steps should be taken to prepare the tiller for storage.

- Clean the exterior of engine and the entire tiller thoroughly. Lubricate the tiller as described in the lubrication instructions.
- We do not recommend the use of pressure washers to clean your unit. They may cause damage to spindles, pulleys, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.

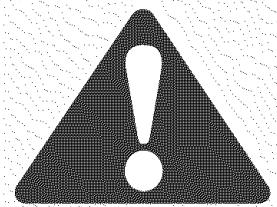
- Refer to the engine manual for correct engine storage instructions.
- Wipe tines with oiled rag to prevent rust.
- Store tiller in a clean, dry area. Do not store next to corrosive materials, such as fertilizer.
- When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment and especially any springs, bearings, and cables.

## Safety Labels Found On Your Tiller



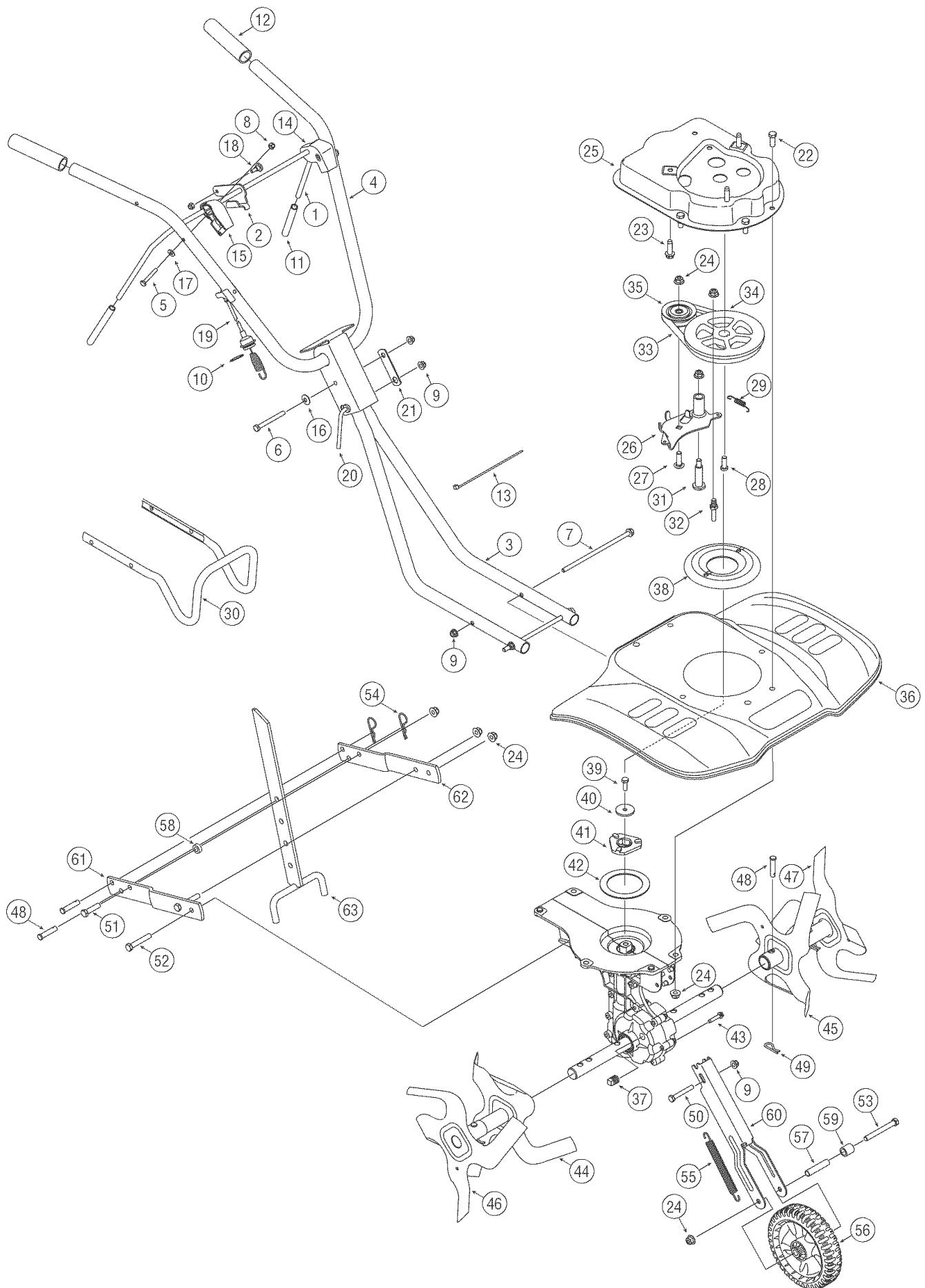
7

## Off Season Storage and Safety Labels



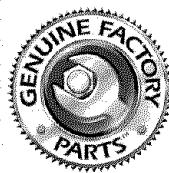
### WARNING

DO NOT remove safety (or any) labels from tiller for any reason.



# 8

## Parts List



To order replacement parts, call  
1-800-800-7310  
or visit  
[www.mtdproducts.com](http://www.mtdproducts.com)

### IMPORTANT

For a proper working machine, use Factory Approved Parts.

**V-BELTS** are specially designed to engage and disengage safely. A substitute (non OEM) V-Belt can be dangerous by not disengaging completely.

1	747-04349	Clutch Bail
2	786-04258	Clutch Crank
3	649-04029	Handle Assembly: Lower
4	649-04030	Handle Assembly: Upper
5	710-0136	Hex Screw: 1/4-20:1.75:GR5:STD
6	710-0189	Hex Screw: 5/16-18:3.00:GR5:STD
7	710-04398	Flange Screw: 5/16-18:7.500:GR5
8	712-0324	Hex Lock Nut: 1/4-20:GR8:NYL
9	712-04063	Flange Lock Nut: 5/16-18:GRF: NYL
10	716-0102	Snap Ring: 1.0 dia. shaft
11	720-0269	Handle Grip
12	720-0274	Grip: 1.0 ID x 5.0 LG
13	725-0157	Cable Tie
14	731-05095	Bail Holder LH
15	731-05096	Bail Holder RH
16	736-0242	Bell Washer: .340 x .872 x .060
17	736-0463	Flat Washer: .25 x .630 x .0515
18	738-1023	Shoulder Screw: .375 x .280:1/4-20
19	746-04180	Forward Clutch Cable
20	786-0340	Handle Adjustment Lever
21	786-0341	Retainer Bracket
22	710-0514	Hex Screw: 3/8-16:1.00:GR5:STD
23	710-1315	TT Screw: 3/8-16:1.250
24	712-04065	Flange Lock Nut: 3/8-16:GRF:NYL
25	786-04222	Frame
26	686-04054	Idler Assembly Forward
27	710-04396	Carriage Screw: 3/8-16:1.25:GR5
28	710-04453	Socket Screw: 3/8-24:1.0
29	732-0418	Extension Spring
30	749-04185†	Front Bumper
31	738-04131	Shoulder Screw: .56 x 1.87:3/8-16

† If equipped

32	738-04139	Stud: .33 x 1.5:3/8-16
33	754-04061	Belt
34	756-04145	Flywheel Pulley
35	756-04163	Idler Pulley
36	786-04256	Tine Shield 24 inch
37	GW-9727	Pipe Plug: 3/8 NPT
38	756-04155	Pulley
39	710-04453	Socket Screw: 3/8-24:1.0
40	736-04184	Bell Washer: .382 x 1.500 x .109
41	748-04079	Pulley Adapter: .9875 dia. w/dd
42	736-04175	Flat Washer: 4.03 x 2.88 x .09
43	710-0809	TT Screw: 1/4-20:1.250
44	642-0002	Inner Tine Assembly RH
45	642-0003	Inner Tine Assembly LH
46	642-0004	Outer Tine Assembly RH
47	642-0005	Outer Tine Assembly LH
48	711-0415	Clevis Pin
49	714-0149B	Internal Cotter Pin
50	710-0395	Hex Screw: 5/16-18:2.25:GR5:STD
51	710-0520	Hex Screw: 3/8-16:1.50:GR5:STD
52	710-3011	Hex Screw: 3/8-16:2.25:GR5:STD
53	710-3130	Hex Screw: 3/8-16:3.25:GR8:STD
54	714-3020	Internal Cotter Pin
55	732-0384	Extension Spring
56	734-1988	Wheel 7 x 1.8
57	749-04204	Tube Sleeve
58	750-04380	Spacer: .383 x .750 x .285
59	750-04432	Spacer: .525 x .775 x .835
60	786-04232	Front Wheel Bracket
61	786-04238	Tail Bracket RH
62	786-04239	Tail Bracket LH
63	786-04257	Wheel Bracket

# MANUFACTURER'S LIMITED WARRANTY FOR



The limited warranty set forth below is given by MTD LLC with respect to new merchandise purchased and used in the United States, its possessions and territories.

"MTD" warrants this product against defects in material and workmanship for a period of two (2) years commencing on the date of original purchase and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship. This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by MTD for use with the product(s) covered by this manual will void your warranty as to any resulting damage.

Normal wear parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days from the date of purchase. Normal wear parts include, but are not limited to items such as: batteries, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, shave plates, auger spiral rubber and tires.

**HOW TO OBTAIN SERVICE:** Warranty service is available, WITH PROOF OF PURCHASE, through your local authorized service dealer. To locate the dealer in your area, check your Yellow Pages, or contact MTD LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, or call 1-800-800-7310 or 1-330-220-4683 or log on to our Web site at [www.mtdproducts.com](http://www.mtdproducts.com).

This limited warranty does **not** provide coverage in the following cases:

- a. The engine or component parts thereof. These items may carry a separate manufacturer's warranty. Refer to applicable manufacturer's warranty for terms and conditions.
  - b. Log splitter pumps, valves, and cylinders have a separate one year warranty.
  - c. Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.
  - d. Service completed by someone other than an authorized service dealer.
  - e. MTD does not extend any warranty for products sold or exported outside of the United States, its possessions and territories, except those sold through MTD's authorized channels of export distribution.
  - f. Replacement parts that are not genuine MTD parts.
  - g. Transportation charges and service calls.
- No implied warranty, including any implied warranty of merchantability or fitness for a particular purpose, applies after the applicable period of express written warranty above as to the parts as identified. No other express warranty, whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind MTD. During the period of the warranty, the exclusive remedy is repair or replacement of the product as set forth above.
- The provisions as set forth in this warranty provide the sole and exclusive remedy arising from the sale. MTD shall not be liable for incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.
- Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty.** You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product. This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.
- HOW STATE LAW RELATES TO THIS WARRANTY:** This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
- IMPORTANT:** Owner must present Original Proof of Purchase to obtain warranty coverage.