# **OPERATOR'S MANUAL**



22" Rotary Mower — Model 26M

# 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, brushcovered 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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MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

FORM NO. 769-02298B 10/12/2006 This Operator's Manual is an important part of your new lawn mower. It will help you assemble, prepare and maintain the unit for best performance. Please read and understand what it says.

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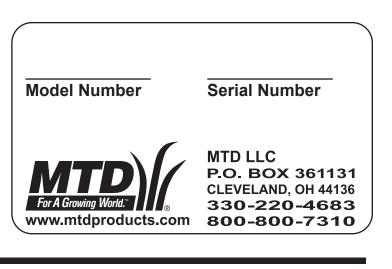
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MTD LLC reserves the right to change product specifications, designs, and equipment without notice and without incurring obligation.

# **Finding and Recording Model Number**

BEFORE YOU BEGIN TO ASSEMBLE 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 standing at the operating position and looking down at the rear of the deck. This information will be necessary to use the manufacturer's web site, to obtain assistance from the Customer Support Department, or when contacting an authorized service dealer.



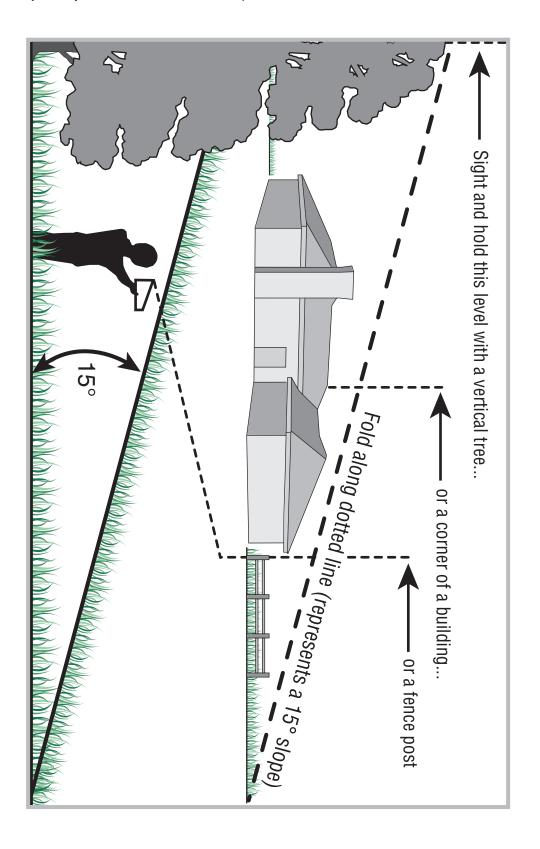
# **Customer Support**

# 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 www.mtdproducts.com
- Call a Customer Support Representative at **1-800-800-7310**.

Use this page as a guide to determine slopes where you may not operate safely. Do not operate your lawn mower on such slopes.





# WARNING

Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2-1/2 feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walkbehind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

**Operate RIDING** mowers up and down slopes, never across the face of slopes.

Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.



# Safe Operation Practices



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!**

Your Responsibility Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.



**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.

# Children

Tragic accidents can occur if operator is not alert to presence of children. Children are often attracted to mower and mowing activity. They do not understand the dangers. Never assume that children will remain where you last saw them.

- Keep children out of the mowing area and under watchful care of a responsible adult other than the operator.
- Be alert and turn mower off if a child enters the area.
   Before and while moving backwards, look behind and down
- for small children.
- Use extreme care when approaching blind corners, doorways, shrubs, trees, or other objects that may obscure your vision of a child who may run into the mower.
- 5. Keep children away from hot or running engines. They can suffer burns from a hot muffler.
- Never allow children under 14 years old to operate a power mower. Children 14 years old and over should read and understand operation instructions and safety rules in this manual and should be trained and supervised by a parent.

# **General Operation**

- Read this operator's manual carefully in its entirety before attempting to assemble this machine. Read, understand, and follow all instructions on the machine and in the manual(s) before operation. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- This machine is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times. Your unit has been designed to perform one job: to mow grass. Do not use it for any other purpose.
- 3. Never allow children under 14 years old to operate this machine. Children 14 years old and over should read and understand the instructions in this manual and should be trained and supervised by a parent. Only responsible individuals who are familiar with these rules of safe operation should be allowed to use this machine.
- 4. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones, toys and other foreign objects, which could be tripped over or picked up and thrown by the blade. Thrown objects can cause serious personal injury. Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the like. Also, avoid discharging material against a wall or obstruction, which may cause discharged material to ricochet back toward the operator.
- To help avoid blade contact or a thrown object injury, stay in operator zone behind handles and keep children, bystanders, helpers and pets at least 75 feet from mower while it is in operation. Stop machine if anyone enters area.

- 6. Always wear safety glasses or safety goggles during operation and while performing an adjustment or repair to protect your eyes. Thrown objects which ricochet can cause serious injury to the eyes.
- 7. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Shirts and pants that cover the arms and legs and steel-toed shoes are recommended. Never operate this machine in bare feet, sandals, slippery or light-weight (e.g. canvas) shoes.
- 8. Do not put hands or feet near rotating parts or under cutting deck. Contact with blade can amputate hands and feet.
- 9. A missing or damaged discharge cover can cause blade contact or thrown object injuries.
- Many injuries occur as a result of the mower being pulled over the foot during a fall caused by slipping or tripping. Do not hold on to the mower if you are falling; release the handle immediately.
- 11. Never pull the mower back toward you while you are walking. If you must back the mower away from a wall or obstruction first look down and behind to avoid tripping and then follow these steps:
  - a. Step back from mower to fully extend your arms.
  - b. Be sure you are well balanced with sure footing.
  - c. Pull the mower back slowly, no more than half way toward you.
  - d. Repeat these steps as needed.
- 12. Do not operate the mower while under the influence of alcohol or drugs.
- 13. Do not engage the self-propelled mechanism on units so equipped while starting engine.
- 14. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions and automatically return to the disengaged position when released.
- 15. Never operate the mower in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. If you feel you are losing your footing, release the blade control handle immediately and the blade will stop rotating within three seconds.
- 16. Mow only in daylight or good artificial light. Walk, never run.
- 17. Stop the blade when crossing gravel drives, walks or roads.
- If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.

 Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute.

The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.

- 20. Never operate mower without proper trail shield, discharge cover, grass catcher, blade control handle or other safety protective devices in place and working. Never operate mower with damaged safety devices. Failure to do so can result in personal injury.
- 21. Muffler and engine become hot and can cause a burn. Do not touch.
- 22. Only use parts and accessories made for this machine by manufacturer. Failure to do so can result in personal injury.
- 23. If situations occur which are not covered in this manual, use care and good judgment. Contact your dealer for assistance.

# **Slope Operation**

Slopes are a major factor related to slip and fall accidents, which can result in severe injury. Operation on slopes requires extra caution. If you feel uneasy on a slope, do not mow it. For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15 degrees, do not mow it.

### Do:

- 1. Mow across the face of slopes; never up and down. Exercise extreme caution when changing direction on slopes.
- 2. Watch for holes, ruts, rocks, hidden objects, or bumps which can cause you to slip or trip. Tall grass can hide obstacles.
- Always be sure of your footing. A slip and fall can cause serious personal injury. If you feel you are losing your balance, release the blade control handle immediately, and the blade will stop rotating within 3 seconds.

### Do Not:

- 1. Do not mow near drop-offs, ditches or embankments, you could lose your footing or balance.
- 2. Do not mow slopes greater than 15 degrees as shown on the slope gauge.
- 3. Do not mow on wet grass. Unstable footing could cause slipping.

# Service

### Safe Handling Of Gasoline:

- 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.
- 2. Use only an approved gasoline container.
- 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.
- 4. 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.
- 5. 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.

- 6. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- 7. Never fuel machine indoor because flammable vapors will accumulate in the area.
- Never remove gas cap or add fuel while engine is hot or running. Allow engine to cool at least two minutes before refueling.
- Never over fill fuel tank. Fill tank to no more than ½ inch below bottom of filler neck to provide for fuel expansion.
- 10. Replace gasoline cap and tighten securely.
- If gasoline is spilled, wipe it off the engine and equipment. Move unit to another area. Wait 5 minutes before starting engine.
- 12. 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.
- 13. 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.
- 14. Allow a mower to cool at least 5 minutes before storing.

### General Service:

- 1. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
- Before cleaning, repairing, or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire and ground against the engine to prevent unintended starting.
- 3. Check the blade and engine mounting bolts at frequent intervals for proper tightness. Also, visually inspect blade for damage (e.g., bent, cracked, worn) Replace blade with the original equipment manufacture's (O.E.M.) blade only, listed in this manual. "Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!"
- 4. Mower blades are sharp and can cut. Wrap the blade or wear gloves, and use extra caution when servicing them.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- 6. Never tamper with safety devices. Check their proper operation regularly.
- After striking a foreign object, stop the engine, disconnect the spark plug wire and ground against the engine. Thoroughly inspect the mower for any damage. Repair the damage before starting and operating the mower.
- 8. Never attempt to make a wheel or cutting height adjustment while the engine is running.
- 9. Grass catcher components, discharge cover, and trail shield are subject to wear and damage which could expose moving parts or allow objects to be thrown. For safety protection, frequently check components and replace immediately with original equipment manufacturer's (O.E.M.) parts only, listed in this manual. "Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!"
- 10. Do not change the engine governor setting or over-rev the engine. The governor controls the maximum safe operating speed of the engine.
- 11. Maintain or replace safety labels, as necessary.
- Observe proper disposal laws and regulations. Improper disposal of fluids and materials can harm the environment.



# 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 IT'S WARNING!** 

# Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.



# Setup and Adjustment



The chute retainer must be removed and discarded before operating the mower.



NOTE: Your mower is shipped with the handle in the higher height position.

NOTE: Each end of the lower handle must be placed in the same relative position.

NOTE: This Operator's Manual covers several models. Lawn Mower features vary by model. Not all features discussed (or engines pictured) in this manual are applicable to all Lawn Mower models.

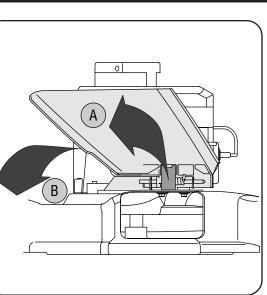


Figure 3-1

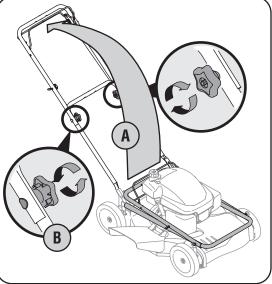
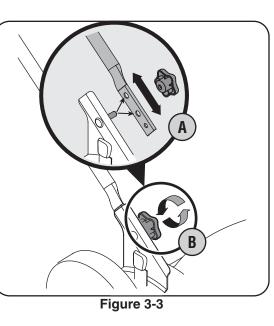


Figure 3-2

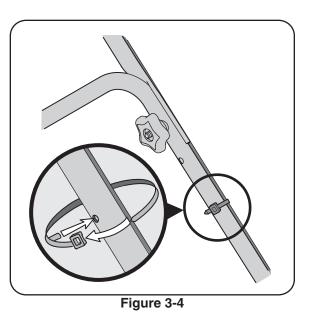


- For shipping purposes, the chute deflector on your mower is held in an upright position by a retainer. Remove the retainer as follows:
  - a. Push chute deflector up towards engine. Holding deflector in this position, remove the retainer and discard. See Figure 3-1.
  - b. Lower the chute deflector carefully keeping your fingers out of the way.

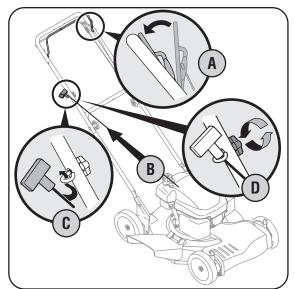


# WARNING: The chute retainer must be removed and discarded before operating the mower.

- 2. Perform the following sequence for handle setup:
  - a. Lift the upper handle up from folded position A and pull it to extended position B following the arrow in Figure 3-2. The handle should click into this position.
  - b. Make sure the carriage bolt is seated properly in the handle. Tighten wing nuts securing upper handle to the lower handle
- 3. If satisfied with height of handle, tighten wing nuts at the ends of the lower handle shown in Figure 3-3. For convenience of operating, you may adjust the handle height by removing the wing nuts and removing the lower handle.
  - a. Position each handle bracket stud into the top hole in the lower handle. See Figure 3-3 inset.
  - b. Tighten the wing nuts.
- 4. Insert post on cable ties into holes provided on the lower handle. Pull cable tie tight and trim excess. See Figure 3-4.



- 5. Rope guide Setup as follows in Figure 3-5:
  - a. Hold the blade control against the upper handle.
  - b. Slowly pull starter rope out of engine.
  - c. Slip starter rope into the rope guide.
  - d. Tighten rope guide wing nut.
- 6. Each wheel has a height adjustment lever to change the cutting height of the mower.
  - a. Depress height adjustment lever towards wheel.
  - b. Slide lever to desired position for a change in cutting height. See Figure 3-6.
  - c. Release lever towards deck.
- 7. Install mulching baffle on the right side of the mower following the steps below:
  - a. Lift up and hold the side-discharge chute deflector and insert bottom lip of the mulching baffle inside the chute opening See Figure 3-7.
  - Snap hooks of the mulching baffle over the hinge pin of the chute deflector. The hooks must snap into place on the hinge pin, locking the mulching baffle firmly onto mower. Release chute deflector.





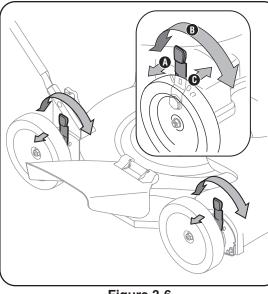
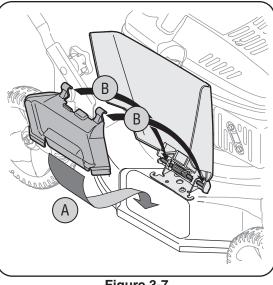


Figure 3-6







# Setup and Adjustment



# CUTTING HEIGHT

All wheels must be placed in the same relative position. For rough or uneven lawns, move the height adjustment lever to a higher position. This will stop scalping of grass.

# MULCHING BAFFLE

For proper assembly, install bottom lip inside chute opening before placing hooks over the hinge pin.

# IMPORTANT

This unit is shipped without gasoline or oil in the engine. Fill up gasoline and oil as instructed in the engine operation section **BEFORE** operating your mower.

# **Know Your Lawn Mower**

# Operating Your Lawn Mower

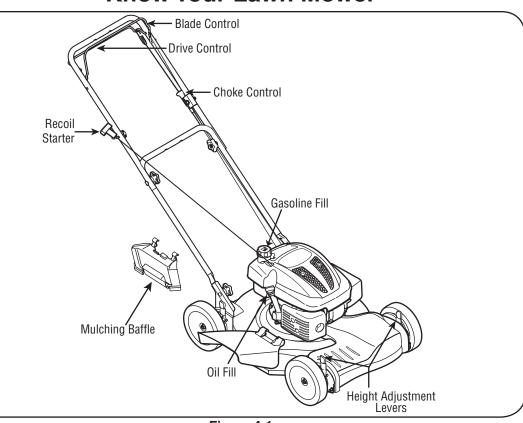


WARNING

The blade 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 chute area on cutting deck. Refer to warning label on the unit.



### Figure 4-1

Now that you have set up your lawn mower for operation, get aquainted with its controls and features. These are described below and illustrated on this page. This knowledge will allow you to use your new equipment to its fullest potential.

### **Blade Control**

The blade control is attached to the upper handle of the mower. Depress and squeeze it against the upper handle to operate the unit. Release it to stop engine and blade.



WARNING: This blade control mechanism is a safety device. Never attempt to bypass its operations.

### **Drive Control**

The drive control is located on the underside of the upper handle and is used to engage the drive. Squeeze it against the upper handle to engage the drive; release it to slow down or stop mower from propelling. See Figure 4-1.

### **Mulching Baffle**

Instead of collecting the grass clippings in the grass catcher, your mower has the option of recirculating the clippings back to the lawn. Remove grass catcher (if applicable), and operate with the mulching baffle only for this purpose.

# **Cutting Height Adjustment Levers**

One adjustment lever is located on each wheel and is used to adjust the cutting height. All four levers have to be at the same relative position to ensure a uniform cut.

# **Recoil Starter**

The recoil starter is attached to the right upper handle. Stand behind the unit and pull the recoil starter rope to start the unit.

# **Choke Control**

The choke control is located on the left side of the handle and when activated, closes the choke plate on the carburetor and aids in starting the engine.

# Gas and Oil Fill-Up

- 1. Add oil provided before starting unit for the first time out of the box. Follow engine operation section for this. See Figure 4-1 above for location of the oil fill.
- 2. Service the engine with gasoline as instructed in the engine operation section. See Figure 4-1 above for location of gas fill.



WARNING: 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.

WARNING: The operation of any lawn mower can result in foreign objects being thrown into the eyes, which can damage your eyes severely. Always wear safety glasses while operating the mower, or while performing any adjustments or repairs on it.

# **Starting Engine**



WARNING: Be sure no one other than the operator is standing near the lawn mower while starting engine or operating mower. 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 lawn mower.



WARNING: Always keep hands and feet clear of equipment moving parts. Do not use a pressurized starting fluid. Vapors are flammable.

1. Pull out the choke knob located on the left side of the upper handle. See Figure 4-2.

**NOTE**: Use of the choke is not necessary if the engine is warm or the air temperature is high.

- 2. Standing behind the mower, depress the blade control and hold it against the upper handle.
- 3. Pull the starter grip lightly until resistance is felt, then pull rapidly to overcome compression, prevent kickback and start engine. Repeat if necessary. See Figure 4-2.

**IMPORTANT**: Do not allow the starter grip to snap back against the rope guide. Return it gently to prevent damage to the starter.

4. When engine warms up, push in the choke knob. See Figure 4-2.

# **Stopping Engine**

1. Release blade control to stop the engine and blade.

# **Using Your Lawn Mower**



WARNING: Never operate your mower without either the rear door or the entire grass catcher assembly firmly secured.

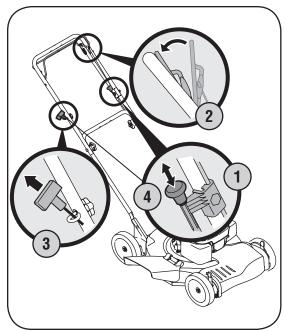


Figure 4-2

Be sure lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidently thrown by the mower in any direction and cause serious personal injury to the operator and others.



WARNING: If you strike a foreign object, stop the engine. Remove spark plug boot from the spark plug, thoroughly inspect mower for any damage, and repair damage before restarting and operating. Extensive vibration of mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

- 1. Once the engine is running, squeeze the drive control against the upper handle to propel mower.
- 2. For best results, do not cut wet grass.
- 3. For a healthier lawn, never cut off more than onethird of the total length of the grass.

# Using as Mulcher

For mulching grass, remove the grass catcher (if apllicable) and install mulching baffle following instructions in Set Up and Adjustment.

- 1. For effective mulching, do not cut wet grass.
- 2. New or thick grass may require a narrower cut. Adjust ground speed according to condition of lawn.
- If the grass has been allowed to grow in excess of 4 inches, mulching is not recommended. Use the grass catcher to bag clippings instead.



Operating Your Lawn Mower



WARNING

The operation of any lawn mower can result in foreign objects being thrown into the eyes, which can damage your eyes severely. Always wear safety glasses while operating the mower, or while performing any adjustments or repairs on it.

Be sure no one other than the operator is standing near the lawn mower while starting engine or operating mower. 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 lawn mower.



# Maintaining Your Lawn Mower



# WARNING

Always stop engine, disconnect spark plug, and ground against engine before performing any type of maintenance on your machine.



We do not recommend the use of a pressure washer or garden hose to clean your unit. These may cause damage to electric components, spindles, pulleys, bearings, or the engine. The use of water will result in shortened life and reduce serviceability.

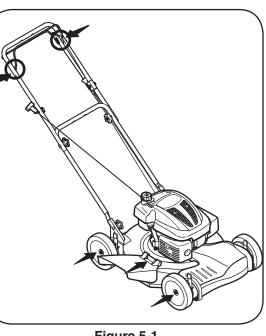


Figure 5-1

# General Recommendations

- 1. Always observe safety rules when performing any maintenance.
- The warranty on this lawn mower does not cover items that have been subjected to operator abuse or negligence. To receive full value from warranty, operator must maintain the lawn mower as instructed here.
- 3. Changing of engine-governed speed will void engine warranty.
- 4. All adjustments should be checked at least once each season.
- 5. Periodically check all fasteners and make sure these are tight.



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

# Lubrication

- 1. Lubricate pivot points on the blade control and drive control at least once a season with light oil. These controls must operate freely in both directions. See Figure 5-1.
- Lubricate the wheels at least once a season with light oil (or motor oil). If wheels are removed for any reason, lubricate surface of the pivot arm and inner surface of the wheel with light oil. See Figure 5-1.
- 3. Lubricate the torsion spring and pivot point on each end of the side mulching plug/ chute deflector periodically with light oil to prevent rust. See Figure 5-1.
- 4. The transmission is pre-lubricated and sealed at the factory and does not require lubrication.
- 5. Follow the engine maintenance section for lubrication schedule and instruction for engine lubrication.

# Deck Care

- 1. Disconnect spark plug boot. Drain gasoline from lawn mower, or place a piece of plastic under the gas cap.
- 2. Tip mower so that it rests on the housing. Keep the side with the air cleaner facing up. Hold mower firmly.



WARNING: Never tip the mower more than 90 degrees in any directions and do not leave the mower tipped for any length of time. Oil can drain into the upper part of the engine causing a starting problem.

- 3. Scrape and clean the underside of the deck with a suitable tool. Do not spray with water.
- 4. Put the mower back on its wheels on the ground. If you had put plastic under the gas cap earlier, make sure to remove it now.

# **Engine Care**

- 1. Maintain oil level as instructed in the engine maintenance section.
- 2. Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Refer to the engine maintenance section.
- 3. Clean spark plug and reset the gap once a season. Check the engine maintenance section for correct plug type and gap specifications.
- 4. Clean engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation. Remove all grass, dirt and combustible debris from muffler area.

# **Blade Care**



WARNING: When removing cutting blade for sharpening or replacement, protect your hands with a pair of heavy gloves or use a heavy rag to hold blade.

- 1. Disconnect spark plug boot from spark plug. Turn mower on its side making sure that the air filter and the carburetor are up.
- 2. Remove bolt, bell washer, blade, and blade adapter from the engine crankshaft. See Figure 5-2.
- 3. The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen the blade while it is still on the mower. When sharpening blade, follow original angle of grind. Grind cutting edges equally to keep blade balanced.
- 4. Remove blade from the adapter for testing balance. Balance the blade on a round shaft screwdriver to check. Remove metal from the heavy side until it balances evenly.



### WARNING: An unbalanced blade will cause excessive vibration when rotating at high speeds. It may cause damage to mower, and could break causing personal injury.

- 5. Lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Slide the blade adapter onto the engine crankshaft. Place the blade on the adapter such that the side of the blade marked "Bottom" (or with part number) faces the ground when the mower is in the operating position. Make sure that blade is aligned and seated on blade adapter flanges.
- 6. Place bell washer on the blade. Replace hex bolt and tighten hex bolt to torque: 450 in. lbs. min., 600 in. lbs. max.

To ensure safe operation of your mower, periodically check the blade bolt for correct torque.

# **Belt Care**

- 1. Remove the front drive cover by sliding off the two plastic rivets on each side of the cover with a screwdriver. See Figure 5-3.
- 2. Disconnect belt tension spring from transmission. See Figure 5-3.
- 3. Push transmission up a little and slide belt off the transmission pulley. Lift mower to access belt from underside of mower. Slide belt off of engine pulley and around the blade. See Figure 5-4.
- 4. Replace with new belt, working around blade. Make sure belt is firmly seated on engine pulley while pulling from the other side and sliding it around the transmission pulley. Secure belt tension spring to the transmission. Reassemble front drive cover.

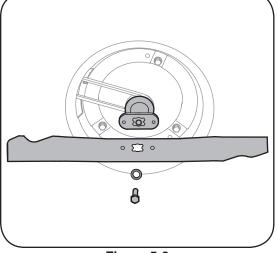


Figure 5-2

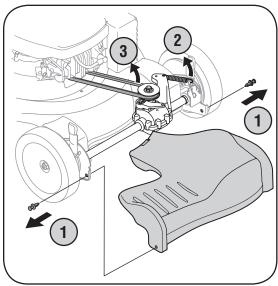
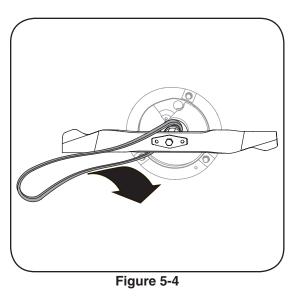


Figure 5-3



5

Maintaining Your Lawn Mower



WARNING

When removing the cutting blade for sharpening or replacement or when sliding the belt around it, protect your hands with a pair of heavy gloves or use a heavy rag to hold the blade.

An unbalanced blade will cause excessive vibration when rotating at high speeds. It may cause damage to mower, and could break causing personal injury.

|  | Problem  | Cause   | Remedy  |
|--|--|---|---|
| Trouble<br>Shooting                                    | Engine fails to start                                  | <ol> <li>Blade control disengaged.</li> <li>Spark plug boot disconnected.</li> <li>Fuel tank empty or stale fuel.</li> <li>CHOKE not activated.</li> <li>Faulty spark plug.</li> <li>Blocked fuel line.</li> <li>Engine flooded.</li> </ol> | <ol> <li>Engage blade control.</li> <li>Connect wire to spark plug.</li> <li>Fill tank with clean, fresh gasoline.</li> <li>Choke engine as instructed in<br/>"Operating Your Lawn Mower".</li> <li>Clean, adjust gap, or replace.</li> <li>Clean fuel line.</li> <li>Wait a few minutes to restart.</li> </ol> |
| For repairs beyond the minor adjust-ments listed here, | Engine runs erratic                                    | <ol> <li>Spark plug boot loose.</li> <li>Blocked fuel line or stale fuel.</li> <li>Vent in gas cap plugged.</li> <li>Water or dirt in fuel system.</li> <li>Dirty air cleaner.</li> <li>Unit running with CHOKE applied.</li> </ol>         | <ol> <li>Connect and tighten spark<br/>plug boot.</li> <li>Clean fuel line; fill tank with clean,<br/>fresh gasoline.</li> <li>Clear vent.</li> <li>Drain fuel tank. Refill with<br/>fresh fuel.</li> <li>Refer to engine maintenance<br/>section.</li> <li>Push CHOKE knob in.</li> </ol>                      |
| contact an authorized service dealer.                  | Engine overheats<br>Occasional skips<br>(hesitates) at | <ol> <li>Engine oil level low.</li> <li>Air flow restricted.</li> <li>Spark plug gap too close.</li> </ol>  | <ol> <li>Fill crankcase with proper oil.</li> <li>Remove blower housing<br/>and clean.</li> <li>Adjust gap to .030".</li> </ol>   |
|  | high speed<br>Idles poorly                             | <ol> <li>Spark plug fouled, faulty or gap<br/>too wide.</li> <li>Dirty air cleaner.</li> </ol>  | <ol> <li>Reset gap to .030" or replace<br/>spark plug.</li> <li>Refer to engine maintenance<br/>section.</li> </ol>   |
|  | Excessive<br>Vibration                                 | <ol> <li>Cutting blade loose or unbalanced.</li> <li>Bent cutting blade.</li> </ol>   | <ol> <li>Tighten blade and adapter.<br/>Balance blade.</li> <li>See an authorized service dealer.</li> </ol>  |
|  | Mower will not<br>mulch grass (If<br>Equipped)         | <ol> <li>Wet grass.</li> <li>Excessively high grass.</li> <li>Dull blade.</li> </ol>  | <ol> <li>Do not mow when grass is wet;<br/>wait until later to cut.</li> <li>Mow once at a high cutting height,<br/>then mow again at desired height<br/>or make a narrower cutting path.</li> <li>Sharpen or replace blade.</li> </ol>   |
|  | Uneven cut   | <ol> <li>Wheels not positioned correctly.</li> <li>Dull blade.</li> </ol>   | <ol> <li>Place all four wheels in same<br/>height position.</li> <li>Sharpen or replace blade.</li> </ol>   |
|  | Mower will not<br>self propel                          | <ol> <li>Belt not installed properly.</li> <li>Debris clogging drive operation.</li> <li>Damaged or worn belt.</li> </ol>   | <ol> <li>Check belt for proper pulley instal-<br/>lation and movement.</li> <li>Stop engine, disconnect spark plug<br/>boot and clean out debris.</li> <li>Inspect and replace belt.</li> </ol>   |

# **Off-Season Storage**

The following steps should be taken to prepare your lawn mower for storage.

- 1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
- 2. We do not recommend the use of a pressure washer or garden hose to clean your unit.
- 3. Refer to engine maintenance section for correct engine storage instructions.
- 4. Coat mower's cutting blade with chassis grease to prevent rusting.
- 5. Store mower in a dry, clean area. Do not store next to corrosive materials, such as fertilizer.

When storing any type of power equipment in a poorly ventilated or metal storage shed, care should be taken to rust-proof the equipment. Using a light oil or silicone, coat the equipment, especially cables and all moving parts of your lawn mower before storage.









| A WARNING          |   |  |  |  |
|--------------------|---|--|--|--|
|                    | Read and follow Operating Instructions before running engine.                       |  |  |  |
| for the particular | Gasoline is flammable. Allow engine to cool at least<br>2 minutes before refueling. |  |  |  |
|                    | Engines emit carbon monoxide. DO NOT run in enclosed area.                          |  |  |  |



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



**NOTE**: Safety labels vary by model. Not all labels shown on this page are applicable to all Lawn Mower models.



# Engine Safe Operation Practices



Gasoline and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death. If gasoline is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Starting engine creates sparking. Sparking can ignite nearby flammable gases. Explosion and fire could result.

Unintentional sparking can result in fire or electric shock. Unintentional start-up can result in entanglement, traumatic amputation, or laceration.



**WARNING:** Gasoline and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death. If gasoline is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Gasoline and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death. If gasoline is spilled on yourself or your clothes, wash your skin and change clothes immediately.

- When adding fuel, turn engine OFF and let engine cool at least 2 minutes before removing gas cap.
- Fill fuel tank outdoors or in well ventilated area.
- Use only an approved gasoline container.
- 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.
- If possible, 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.
- 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.
- Do not overfill fuel tank. Fill tank to approximately 2 cm below lowest portion of neck to allow for fuel expansion.
- Keep gasoline away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Never fuel equipment indoors because flammable vapors will accumulate in the area.
- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Check fuel line, tank, cap, and fittings frequently for cracks or leaks. Replace if necessary.
- When starting engine, make sure spark plug, muffler, fuel cap and air cleaner are in place.
- Do not crank engine with spark plug removed.
- If fuel spills, wait until it evaporates before starting engine.

- When operating equipment, do not tip engine or equipment at angle which causes gasoline to spill.
- Do not choke carburetor to stop engine.
- When transporting equipment, transport with fuel tank EMPTY.
- When storing gasoline or equipment with fuel in tank, store away from furnaces, stoves, water heaters or other appliances that have pilot light or other ignition source because they can ignite gasoline vapors.



# Starting engine creates sparking. Sparking can ignite nearby flammable gases. Explosion and fire could result.

- If there is a natural or LP gas leakage in area, do not start engine.
- Do not use pressurized starting fluids because vapors are flammable.



# Engines give off carbon monoxide, an odorless, colorless, poisonous gas. Breathing carbon monoxide can cause nausea, fainting, or death.

- Start and run engine outdoors.
- Do not start or run engine in enclosed area, even if doors or windows are open.



# Unintentional sparking can result in fire or electric shock. Unintentional start-up can result in entanglement, traumatic amputation, or laceration.

- Before peforming adjustments or repairs, disconnect spark plug wire and keep it away from spark plug.
- When testing for spark, use approved spark plug tester.
- Do not check for spark with spark plug removed.

Running engine produces heat. Engine parts, especially muffler, become extremely hot. Severe thermal burns can occur on contact. Combustible debris, such as leaves, grass, brush, etc., can catch fire.

- Allow muffler, engine cylinder, and fins to cool before touching.
- Keep children away from hot or running engines. They can suffer burns from a hot muffler.
- Remove accumulated combustibles from muffler and cylinder area.



Rotating engine parts can contact or entangle hands, feet, hair, clothing, or accessories. Traumatic amputation or severe laceration can result.

- Operate equipment with guards in place.
- Keep hands and feet away from rotating parts.

- Tie up long hair and remove jewelry.
- Do not wear loose-fitting clothing, dangling drawstrings or items that could become caught.



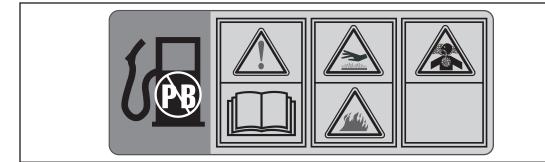
Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go. Broken bones, fractures, bruises or sprains could result.

- When starting engine, pull cord slowly until resistance is felt, then pull rapidly.
- Remove all external equipment/engine loads before starting engine.
- Direct coupled equipment components such as, but not limited to blades, impellers, pulleys, sprockets, etc., must be securely attached.

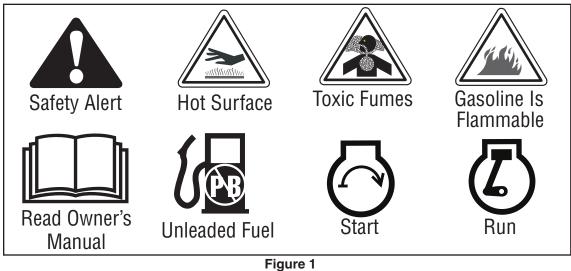
# Safety Label Location

This label warns you of potential hazards that can cause serious injury. Read it carefully. See Figure 1 for explanation of symbols.

If the label comes off or becomes hard to read, contact the dealer for replacement.



# **International Symbols and Meanings**





# Engine Safe Operation Practices



# WARNING

Running engine produces heat. Engine parts, especially muffler, become extremely hot. Severe thermal burns can occur on contact. Combustible debris, such as leaves, grass, brush, etc., can catch fire.

Rotating engine parts can contact or entangle hands, feet, hair, clothing, or accessories. Traumatic amputation or severe laceration can result.

Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go. Broken bones, fractures, bruises or sprains could result.

# Operating Your Engine

i

**IMPORTANT**: This engine is shipped without gasoline or oil in the engine. Running the engine with insufficient oil can cause serious engine damage and void the engine warranty.

# **IMPORTANT**: Using nondetergent oil or 2stroke engine oil could shorten the engine's service life.

Be sure to check the engine on a level surface with the engine stopped.

# Fuel Cap Starter Oil Fill Cap Oil Drain Muffler \* 1P65 Engine Shown

Figure 9-1: The major components of the engine. The shroud on your engine may differ.

Read this section before starting your lawn mower engine. Compare the illustrations in Figure 9-1 with your lawn mower engine to familiarize yourself with the location of various controls and adjustments.

# **Pre-Operation Check**

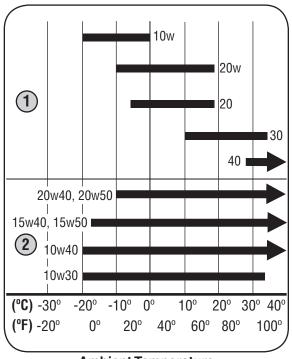
### **Oil Recommendations**

**IMPORTANT**: This engine is shipped without gasoline or oil in the engine. Running the engine with insufficient oil can cause serious engine damage and void the engine warranty.

• Before starting engine, fill with oil. Do not over-fill. Oil capacity is about 20 oz.

Use a 4-stroke, or an equivalent high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirements for service classification SG, SF. Motor oils classified SG, SF will show this designation on the container.

SAE 10W-30 is recommended for general, all temperature use. If single viscosity oil is used, select the appropriate viscosity for the average temperature in your area from the chart to the right.



- Ambient Temperature
- 1. Single Viscosity
- 2. Multi Viscosity

IMPORTANT: Using nondetergent oil or 2-stroke engine oil could shorten the engine's service life.

# Check Oil Level

**IMPORTANT**: Be sure to check the engine on a level surface with the engine stopped.

- 1. Remove the oil filler cap and wipe the dipstick clean. See Figure 9-2.
- 2. Insert the dipstick into the oil filler neck, but do not screw it in.
- 3. If the level is low, slowly add oil to the upper limit on the dipstick.
- 4. Tighten dipstick firmly before starting engine.

**IMPORTANT**: Do not overfill. Overfilling with oil may cause smoking, hard starting, spark plug fouling, or oil saturation of air cleaner.

### **Fuel Recommendations**

Use automotive gasoline (Unleaded or lowleaded to minimize combustion chamber deposits). Never use an oil/gasoline mixture or dirty gasoline. Avoid getting dirt, dust, or water in the fuel tank.



WARNING: Gasoline is extremely flammable and is explosive under certain conditions.

Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.

Do not overfill the fuel tank (there should be no fuel in the filler neck). After refueling, make sure the tank cap is closed properly and securely.

Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.

Avoid repeated or prolonged contact with skin or breathing of vapor.

### **Check Fuel Level**

- 1. Clean around fuel fill before removing cap to fuel.
- 2. Fill tank to approximately one inch below lowest portion of neck to allow for fuel expansion. Be careful not to overfill.

**IMPORTANT**: Before refueling, allow engine to cool two minutes.

# **Starting The Engine**



WARNING: Always keep hands and feet clear of equipment moving parts. Do not use a pressurized starting fluid. Vapors are flammable.

1. Pull out the choke knob located on the left side of the upper handle. See Figure 9-3.

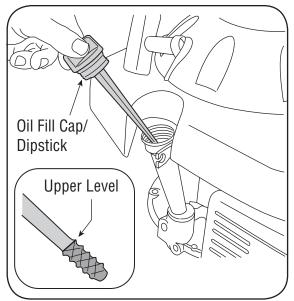


Figure 9-2: Checking the oil level.

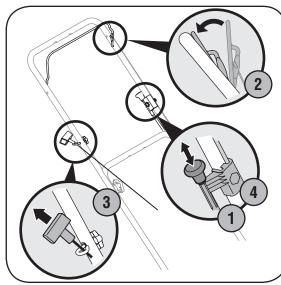


Figure 9-3: Starting the mower. (Your mower may differ from that shown)

**NOTE**: Use of the choke may not be necessary if the engine is warm or the air temperature is high.

- 2. Standing behind the mower, depress the blade control and hold it against the upper handle.
- 3. Pull the starter grip lightly until resistance is felt, then pull rapidly to overcome compression, prevent kickback and start engine. Repeat if necessary.

**IMPORTANT**: Do not allow the starter grip to snap back against the rope guide. Return it gently to prevent damage to the starter.

4. When engine warms up, push in the choke knob.

# **Stopping The Engine**

1. Release the blade control.



Operating Your Engine



# WARNING

Always keep hands and feet clear of equipment moving parts. Do not use a pressurized starting fluid. Vapors are flammable.



**IMPORTANT**: Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.







# WARNING

Shut off the engine before performing any type of maintenance. To prevent accidental start-up, disconnect the spark plug boot.

Before tipping engine or equipment to drain oil, drain fuel from tank by running engine until fuel tank is empty.



**IMPORTANT**: Be sure to check engine on a level surface with the engine stopped. Drain the oil while the engine is still warm to assure rapid and complete draining.



WARNING: Shut off the engine before performing any maintenance. To prevent accidental start-up, disconnect the spark plug boot.

**IMPORTANT**: If engine must be tipped to transport equipment or to inspect or remove grass, keep spark plug side of engine up. Transporting or tipping engine spark plug down may cause smoking, hard starting, spark plug fouling, or oil saturation of air cleaner. Periodic inspection and adjustment of the engine is essential if high level performance is to be maintained. Regular maintenance will also ensure a long service life. The required service intervals and the kind of maintenance to be performed are described in the table below. Follow the hourly or calendar intervals, whichever occur first. More frequent service is required when operating in adverse conditions.

# Maintenance Schedule

| Tasks                   | First 5 hours | Each use or<br>every 5 hours | Every season<br>or 25 hours   | Every season<br>or 50 hours | Every season<br>or 100 hours | Service Dates |
|-------------------------|---------------|------------------------------|-------------------------------|-----------------------------|------------------------------|---------------|
| Check Engine<br>Oil     |               | $\checkmark$                 |                               |                             |                              |               |
| Change Engine<br>Oil    | $\checkmark$  |                              | $\checkmark^{\dagger\dagger}$ | $\checkmark$                |                              |               |
| Check Air<br>Cleaner    |               | $\checkmark$                 |                               |                             |                              |               |
| Service Air<br>Cleaner  |               |                              | $\checkmark^{\dagger}$        |                             |                              |               |
| Check Spark<br>Plug     |               |                              | $\checkmark$                  |                             |                              |               |
| Service Spark<br>Plug   |               |                              |                               |                             | $\checkmark$                 |               |
| Clean Finger<br>Guard   |               | $\checkmark$                 |                               |                             |                              |               |
| Clean Around<br>Muffler |               | $\checkmark$                 |                               |                             |                              |               |

† Service more frequently when used in dusty areas.

tt lf operating under heavy load or high ambient temperature.

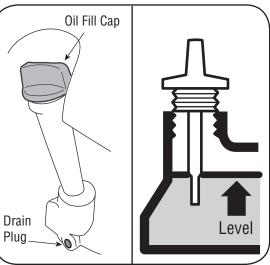


Figure 10-1: Changing the oil.

# **Oil Service**

- Check oil level regularly.
- Be sure correct oil level is maintained. Check every five hours or daily before starting engine. See oil checking procedure in the Operation section.

# Oil Change

**IMPORTANT**: Be sure to check engine on a level surface with the engine stopped. Drain the oil while the engine is still warm to assure rapid and complete draining.

 Remove oil fill cap and drain oil by either removing drain plug or turning mower on its side (air cleaner side up) and allowing oil to drain into a suitable container. See Figure 10-1.



WARNING: Before tipping engine or equipment to drain oil, drain fuel from tank by running engine until fuel tank is empty.

- 2. Reinstall the drain plug (if removed), and tighten it securely.
- 3. Refill with the recommended oil (see Operation section) and check the oil level. See Figure 10-1.
- 4. Reinstall the oil fill cap securely.

**IMPORTANT**: Used motor oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

**NOTE**: Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local service station for reclamation. Do not throw it in the trash or pour it on the ground.

# **Air Cleaner Service**

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the engine in extremely dusty areas.



WARNING: Never use gasoline or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.

**IMPORTANT**: Never run the engine without the air cleaner. Rapid engine wear will result.

- Remove the wing bolt and the air cleaner cover. Remove the elements and separate them. See Figure 10-2. Carefully check both elements for holes or tears and replace if damaged.
- Foam element: Wash the element in a solution of household detergent and warm water, then rinse thoroughly, or wash in nonflammable or high flash point solvent. Allow the element to dry thoroughly. Soak the element in clean engine oil and squeeze out the excess oil. The engine will smoke during initial start-up if too much oil is left in the foam.
- 3. **Paper element**: Tap the element lightly several times on a hard surface to remove excess dirt, or blow compressed air through the filter from the inside out. Never try to brush the dirt off; brushing will force dirt into the fibers. Replace the paper element if it is excessively dirty.

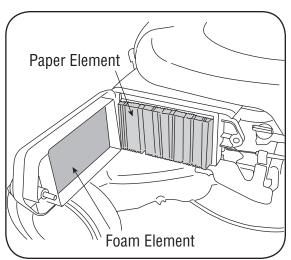


Figure 10-2: Servicing the air cleaner.

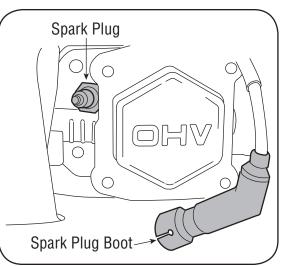


Figure 10-3: The spark plug and boot.

# **Spark Plug Service**



WARNING: DO NOT check for spark with spark plug removed. DO NOT crank engine with spark plug removed.

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

1. Remove the spark plug boot and use a spark plug wrench to remove the plug. See Figure 10-3.



WARNING: If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.

2. Visually inspect the spark plug. Discard the spark plug if there is apparent wear, or if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.



Maintaining Your Engine



# WARNING

Never use gasoline or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.

DO NOT check for spark with spark plug removed. DO NOT crank engine with spark plug removed.

If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.

# Maintaining Your Engine



Accumulation of debris around muffler could cause a fire. Inspect and clean before every use.



**IMPORTANT:** Do not spray engine with water to clean because water could contaminate fuel. Using a garden hose or pressure washing equipment can also force water into the air cleaner or muffler opening. Water in the air cleaner will soak the paper element. and water that passes through the element or muffler can enter the cylinder, causing damage.

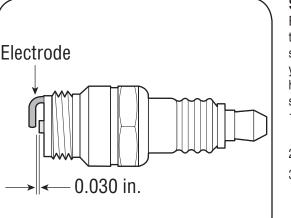


Figure 10-4: Measure the plug gap with a feeler gauge.

- 3. Measure the plug gap with a feeler gauge. Correct as necessary by bending side electrode. See Figure 10-4. The gap should be set to 0.030 in.
- 4. Check that the spark plug washer is in good condition and thread the spark plug in by hand to prevent cross-threading.
- 5. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

**NOTE**: When installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. When reinstalling a used spark plug, tighten 1/8-1/4 turn after the spark plug seats to compress the washer.

**IMPORTANT**: The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and may damage the engine.

# **Clean Engine**

If the engine has been running, allow it to cool for at least half an hour before cleaning. Periodically remove grass and dirt build-up from engine. Clean finger guard and around muffler. Clean with a brush or compressed air.

**IMPORTANT**: Do not spray engine with water to clean because water could contaminate fuel. Using a garden hose or pressure washing equipment can also force water into the air cleaner or muffler opening. Water in the air cleaner will soak the paper element, and water that passes through the element or muffler can enter the cylinder, causing damage.



WARNING: Accumulation of debris around muffler could cause a fire. Inspect and clean before every use.

# Storage

Engines stored over 30 days need to be drained of fuel to prevent deterioration and gum from forming in fuel system or on essential carburetor parts. If the gasoline in your engine deteriorates during storage, you may need to have the carburetor, and other fuel system components, serviced or replaced.

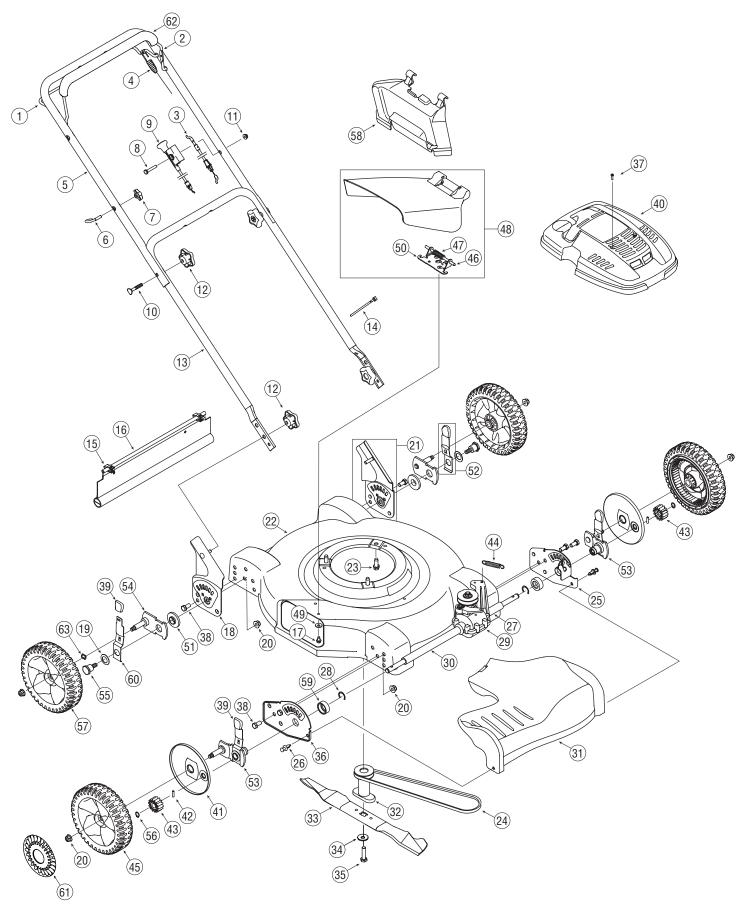
- 1. Remove all fuel from tank by running engine until it stops from lack of fuel.
- 2. Change oil. See Oil Change section.
- 3. Remove spark plug and pour about 1/2 an ounce of engine oil into cylinder. Replace spark plug and crank slowly to distribute oil.
- Clean grass and debris from around engine, under finger guard, and under, around and behind muffler. Touch up any damaged paint, and coat other areas that may rust with a light film of oil.
- 5. Store in a clean, dry and well ventilated area away from any appliance that operates with a flame or pilot light, such as a furnace, water heater, or clothes dryer. Also avoid any area with a spark producing electric motor, or where power tools are operated.
- 6. If possible, also avoid storage areas with high humidity, because that promotes rust and corrosion.
- 7. Keep the engine level in storage. Tilting can cause fuel or oil leakage.

# **Removing From Storage**

- 1. Check your engine as described in the Pre-Operation Check section of this manual.
- 2. If the fuel was drained during storage preparation, fill the tank with fresh gasoline. If you keep a container of gasoline for refueling, make certain it contains only fresh fuel. Gasoline oxidizes and deteriorates over time, causing hard starting.
- 3. If the cylinder was coated with oil during storage preparation, the engine will smoke briefly at startup. This is normal.

# NOTES

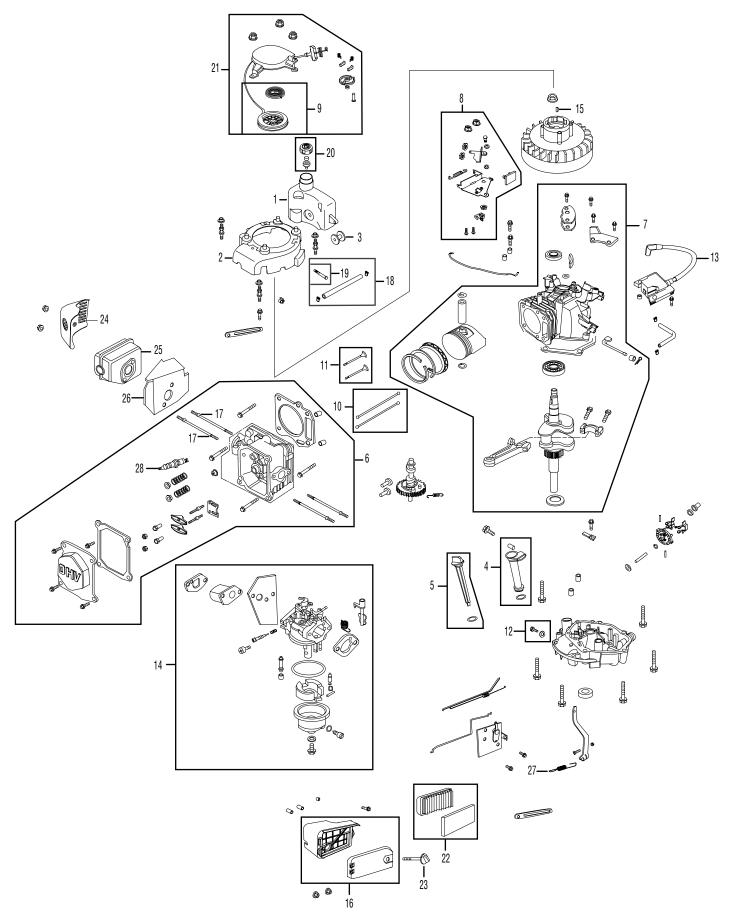
# Model 26M



| Ref.<br>No. | Part No.   | Description                       | Ref.<br>No. | Part No.   | Description                      |   |
|-------------|------------|-----------------------------------|-------------|------------|----------------------------------|---|
| 1.          | 747-1214   | Drive Control                     | 35.         | 710-1044   | Hex Cap Screw, 3/8-24 x 1.5      |   |
| 2.          | 747-1161A  | Blade Control                     | 36.         | 782-0584   | Forward Hght. Adj. Plate - RH    |   |
| 3.          | 746-04300  | Blade Control Cable               | 37.         | 710-04577  | Machine Screw, M4X.7             |   |
| 4.          | 746-04304  | Drive Control Cable               | 38.         | 710-0216   | Hex Cap Screw, 3/8-16 x.75       | Parts Lis                               |
| 5.          | 749-1092A  | Upper Handle                      | 39.         | 720-0426   | Adjustment Knob                  |   |
| 6.          | 710-1205   | Eye Bolt                          | 40.         | 731-05401  | Engine Shroud (Yellow)           |   |
| 7.          | 720-0279   | Wing Nut, 1/4-20                  |             | 731-05400  | Engine Shroud (Black)            |   |
| 8.          | 710-0606   | Hex Screw, 1/4-20 x 1.50          | 41.         | 731-04643  | Wheel Dust Cover                 |   |
| 9.          | 746-04295A | Choke Cable                       | 42.         | 715-0221   | Pin                              |   |
| 10.         | 710-1174   | Carriage Bolt, 5/16-18 x 2.0      | 43.         | 717-1762   | Spur Gear 14T - RH               | <b>GENUI</b> A                          |
| 11.         | 712-04064  | Flange Lock Nut, 1/4-20           |             | 717-1761   | Spur Gear 14T - LH               | FACTORY PA                              |
| 12.         | 720-04072  | Star Knob                         | 44.         | 732-04049  | Ext. Spring, .47 OD x 2.50       |   |
| 13.         | 749-04037  | Lower Handle                      | 45.         | 634-04100  | Front Wheel, 8 x 1.8             | <b>T</b>                                |
| 14.         | 725-0157   | Cable Tie                         |             | 734-2042   | Front Wheel, 8 x 2.125           | To order replacem                       |
| 15.         | 17098      | Hinge Clip                        | 46.         | 747-0710   | Hinge Pin                        | parts, contact                          |
| 16.         | 731-04019  | Trail Shield                      | 47.         | 732-1014   | Torsion Spring                   | 1-800-800-7310                          |
| 17.         | 710-0599   | Hex Screw, 1/4-20 x.500           | 48.         | 731-1034B  | Side Discharge Assembly          | or visit                                |
| 18.         | 682-3064   | Handle Bracket Assy - RH          | 49.         | 736-0270   | Bell Washer, .265 ID x.75 OD     | www.mtdproducts.                        |
| 19.         | 736-0741   | Bell Washer, .760 x 1.25 x.041    | 50.         | 17032A     | Deflector Chute Adapter          |   |
| 20.         | 712-04065  | Lock Nut, 3/8-16                  | 51.         | 741-0751   | Height Adjustment Bearing        |   |
| 21.         | 682-3065   | Handle Bracket Assembly - LH      | 52.         | 687-02051  | Rear Hgt. Adj. Lever Assembly    |   |
| 22.         | 687-02046  | 22" Deck Assembly                 | 53.         | 687-02140  | Front Lever Assembly - LH        |   |
| 23.         | 710-0654A  | Hex Washer Scr., 3/8-16 x 1.0     |             | 687-02141  | Front Lever Assembly - RH        |   |
| 24.         | 754-04100  | V-Belt, 3L x 32.90                | 54.         | 687-02094  | Rear Pivot Arm Assembly          |   |
| 25.         | 782-0585A  | Forward Height Adj. Plate - LH    | 55.         | 738-1173   | Shoulder Screw, 3/8-16           |   |
| 26.         | 728-0199   | Rivet                             | 56.         | 716-0865   | Snap Ring.500                    |   |
| 27.         | 750-04407  | Sleeve Spacer, .550 ID x 2.22     | 57.         | 734-04087  | Rear Wheel, 8 x 1.8              | For a proper working machine, use Facto |
| 28.         | 716-0198   | Retainer Ring                     |             | 734-2004A  | Rear Wheel, 8 x 2.125            | Approved Parts.                         |
| 29.         | 618-04375A | Transmission Assy. Comp.          | 58.         | 631-04045  | Mulching Baffle                  | V-BELTS are specia                      |
| 30.         | 750-04406A | Sleeve Spacer, .550 ID x 8.51     | 59.         | 748-0390   | Bearing Support Spacer           | designed to engage                      |
| 31.         | 731-04636  | Transmission Cover (Yellow)       | 60.         | 732-1026   | Spring Lever                     | and disengage safe                      |
|             | 731-0073   | Transmission Cover                | 61.         | 731-0981A† | Hub Cap                          | A substitute (non O                     |
| 32.         | 748-04016A | Blade Adapter                     | 62.         | 731-2626†  | Deluxe Bail Cover                | V-Belt can be dange                     |
| 33.         | 742-0742A  | 22" Mulching Blade                | 63.         | 736-0504†  | Washer, Wave, .510 x .750 x .017 | ous by not disengag                     |
| 34.         | 736-0452   | Washer, Bell, .396 x 1.140 x .095 |             |            |                                  | completely.                             |

† If Equipped

# Engine 1P65



| Ref. | Part No.   | Description                                 |  |  |
|------|------------|---|--|--|
| 1.   | 951-10337  | Fuel Tank                                   |  |  |
| 2.   | 951-10336  | Flywheel Shroud                             |  |  |
| 3.   | 951-10335  | Rubber Fuel Tank Mounting Washer            |  |  |
| 4.   | 951-10334  | Oil Filler Tube Assembly                    |  |  |
| 5.   | 951-10333  | Dipstick Assembly                           |  |  |
| 6.   | 951-10406  | Cylinder Head Complete                      |  |  |
| 7.   | 951-10407  | Short Block Assembly                        |  |  |
| 8.   | 951-10320  | Stop Switch and Brake Assembly              |  |  |
| 9.   | 951-10319  | Recoil Spring and Pulley Assembly           |  |  |
| 10.  | 951-10314  | Push Rod Kit                                |  |  |
| 11.  | 951-10313  | Valve Kit                                   |  |  |
| 12.  | 951-10370  | Oil Drain Plug and Washer Assembly          |  |  |
| 13.  | 951-10367  | Ignition Coil                               |  |  |
| 14.  | 951-10309  | Carburetor Assembly                         |  |  |
| 15.  | 951-10307  | Flywheel Key                                |  |  |
| 16.  | 951-10405  | Air Cleaner Housing Assembly Complete       |  |  |
| 17.  | 951-10304  | Muffler Stud Assembly                       |  |  |
| 18.  | 951-10363  | Fuel Line Kit – Inc. hoses, clamps & filter |  |  |
| 19.  | 951-10358  | Fuel Filter                                 |  |  |
| 20.  | 951-10300  | Fuel Cap Assembly                           |  |  |
| 21.  | 951-10299  | Recoil Starter Assembly                     |  |  |
| 22.  | 951-10298  | Air Cleaner Kit                             |  |  |
| 23.  | 951-10297  | Air Cleaner Thumb Screw                     |  |  |
| 24.  | 951-10404  | Muffler Guard                               |  |  |
| 25.  | 951-10403  | Muffler                                     |  |  |
| 26.  | 951-10402  | Muffler Gasket /Heat Shield                 |  |  |
| 27.  | 951-10293  | Governor Return Spring                      |  |  |
| 28.  | 951-10292  | Spark Plug                                  |  |  |
| _    | 952Z1P65FU | Engine – Complete                           |  |  |
| _    | 951-10325  | Carburetor Kit – Major                      |  |  |
| _    | 951-10322  | Carburetor Kit – Minor                      |  |  |
|      | 951-10409  | Gasket Kit – Complete                       |  |  |
|      | 951-10410  | Gasket Kit – External                       |  |  |
| -    | 951-10351  | Spark Arrestor                              |  |  |



11

**Illustrated** 

**Parts List** 

To order replacement parts, contact 1-800-800-7310 or visit www.mtdproducts.com.

NOTE: Illustrated parts without a numeric call-out are not servicable components.

### MTD LLC (MTD), The United States Environment Protection Agency (U. S. EPA)

### Emission Control System Warranty Statement

### (Owner's Defect Warranty Rights and Obligations)

The U. S. EPA and MTD are pleased to explain the emissions control system warranty on your model year 2005 and later small off-road engine. New small off-road engines must be designed, built and equipped to meet the stringent anti-smog standards. MTD must warranty the emission control system on your engine for the period of time listed below, provided there has been no abuse, neglect or improper maintenance of your small off-road engine.

Your emission control system may include parts such as the carburetor, air cleaner, ignition system, exhaust system, and other associated emission-related components.

Where a warrantable condition exists, MTD will repair your small off-road engine at no cost to your including diagnosis, parts and labor.

### MANUFACTURER'S WARRANTY COVERAGE:

This emissions control system is warranted for two years. If any emission-related part on your engine is defective, the part will be repaired or replaced by MTD.

### **OWNER'S WARRANTY RESPONSIBILITIES:**

As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. MTD recommends that you retain all your receipts covering maintenances on your small off-road engine, but MTD can not deny warranty solely for the lack of receipts or for your failure to ensure the performance to all scheduled maintenance.

As the small off-road engine owner, you should however be aware that MTD may deny your warranty coverage if your small off-road engine or part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine to an Authorized MTD Service Dealer as soon as a problem exists. The warranted repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact a MTD Service Representative at 1-800-800-7310 and address is MTD LLC, P.O. Box 361131, Cleveland OH, 44136-0019.

### DEFECTS WARRANTY REQUIREMENTS FOR 1995 AND LATER SMALL OFF-ROAD ENGINES:

This section applies to 1995 and later small off-road engines. The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser.

### (a) General Emissions Warranty Coverage

MTD must warrant to the ultimate purchaser and each subsequent purchaser that the engine is:

(1) Designed, built, and equipped so as to conform with all applicable regulations adopted by the Air Resources Board pursuant to its authority in Chapters 1 and 2, Part 5, Division 26 of the Health and Safety Code; and

(2) Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to the part as described in the engine manufacturer's application for certification for a period of two years.

### (b) The warranty on emissions-related parts will be interpreted as follows:

(1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions required by Subsection (c) must be warranted for the warranty period defined in Subsection (a)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by MTD according to Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for the remaining warranty period.

(2) Any warranted part that is scheduled only for regular inspection in the written instructions required by Subsection (c) must be warranted for the warranty period defined in Subsection (a)(2). A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for the remaining warranty period.

(3) Any warranted part that which is scheduled for replacement as required maintenance in the written instructions required by Subsection (c) must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by MTD according to Subsection (4) below. Any such part repaired or replaced under warranty must be warranted for the remainder of the period prior to the first scheduled replacement point for the part.

(4) Repair or replacement of any warranted part under the warranty provisions of this article must be performed at no charge to the owner at a warranty station.

(5) Notwithstanding the provisions of Subsection (4) above, warranty services or repairs must be provided at all MTD distribution centers that are franchised to service the subject engines.

(6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.

(7) The engine manufacturer is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.

(8) Throughout the engine's warranty period defined in Subsection (a)(2), MTD will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

(9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of MTD.

(10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts shall be grounds for disallowing a warranty claim made in accordance with this article. The engine manufacturer shall not be liable under this article to warrant failures of warranted parts caused by the use of non-exempted add-on or modified part.

(c) MTD will include a copy of the following emission warranty parts list with each new engine, using those portions of the list applicable to the engine.

### (1) Fuel Metering System

- Cold start enrichment system (soft choke)
- Carburetor and internal parts
- Fuel Pump
- (2) Air Induction System
  - Air cleaner
  - Intake manifold
- (3) Ignition System
  - Spark plug(s)
  - Magneto Ignition System
- (4) Exhaust System
- (5) Miscellaneous Items Used in Above System
  - Vacuum, temperature , position, time sensitive valves and switches
  - Connectors and assemblies

# MANUFACTURER'S LIMITED WARRANTY FOR



d.

e.

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 belts, blades, blade adapters, grass bags, wheels, engine oil, air filters, and spark plugs.

**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 log on to our Web site at www.mtdproducts.com.

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

- a. Log splitter pumps, valves, and cylinders have a separate one year warranty.
- Boutine 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.
- c. Service completed by someone other than an authorized service dealer.

- 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.
- Replacement parts that are not genuine MTD parts.
- f. Transportation charges and service calls.

No implied warranty, including any implied warranty of merchantability of 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.

MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019; Phone: 1-800-800-7310