

Operator's Manual



IMPORTANT: READ SAFETY RULES AND INSTRUCTIONS CAREFULLY

Warning: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forestcovered, 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.

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

PRINTED IN U.S.A.

FORM NO. 769-00905C (11/2004)

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FINDING MODEL NUMBER

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.



Before you start assembling your new equipment, please locate the model plate on the equipment and copy the information from it in the space provided below. A sample model plate is also given below. 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 and/or help from the Customer Support Department or an authorized service dealer.



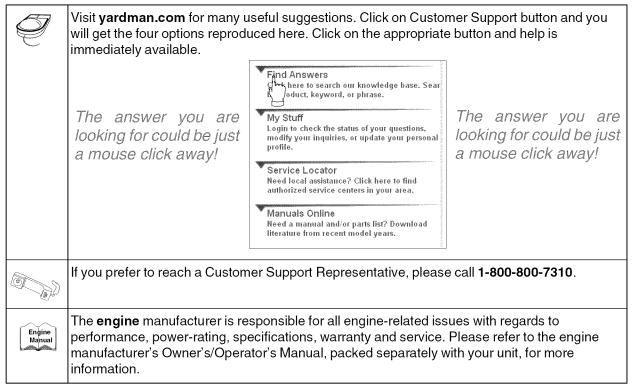
Copy the model number here: _____

Copy the serial number here: ____

CUSTOMER SUPPORT

Please do NOT return the unit to the retailer from where 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:



SECTION 1: IMPORTANT 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.

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.

General Operation

- 1. 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.
- 2. 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 operation instructions and safety rules 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.
- 5. To help avoid blade contact or a thrown object injury, stay in the operator zone behind the handles and keep children, bystanders, helpers and pets at least 75 feet from the mower while it is in operation. Stop machine if anyone enters the 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 the cutting deck. Contact with the blade can amputate hands and feet.
- 9. A missing or damaged discharge cover can cause blade contact or thrown object injuries.
- 10. 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 the 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 in 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.
- 19. 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.
- 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 the 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. Telephone 1-800-800-7310 for the name of your nearest dealer.

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.
- 3. 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.

Children

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

1. Keep children out of the mowing area and under the watchful care of a responsible adult other than the operator.

- 2. Be alert and turn mower off if a child enters the area.
- 3. Before and while moving backwards, look behind and down for small children.
- 4. 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 the operation instructions and safety rules in this manual and should be trained and supervised by a parent.

Service

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. When practical, 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.
- 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 the 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 ½ inch below bottom of filler neck to provide space 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 the engine.
- 13. Never store the machine or fuel container inside where there is 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 Service:

1. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

- 2. 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.
- 5. 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.
- 7. 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 overspeed the engine. The governor controls the maximum safe operating speed of the engine.
- 11. Maintain or replace safety and instruction labels, as necessary.
- 12. Observe proper disposal laws and regulations. Improper disposal of fluids and materials can harm the environment.



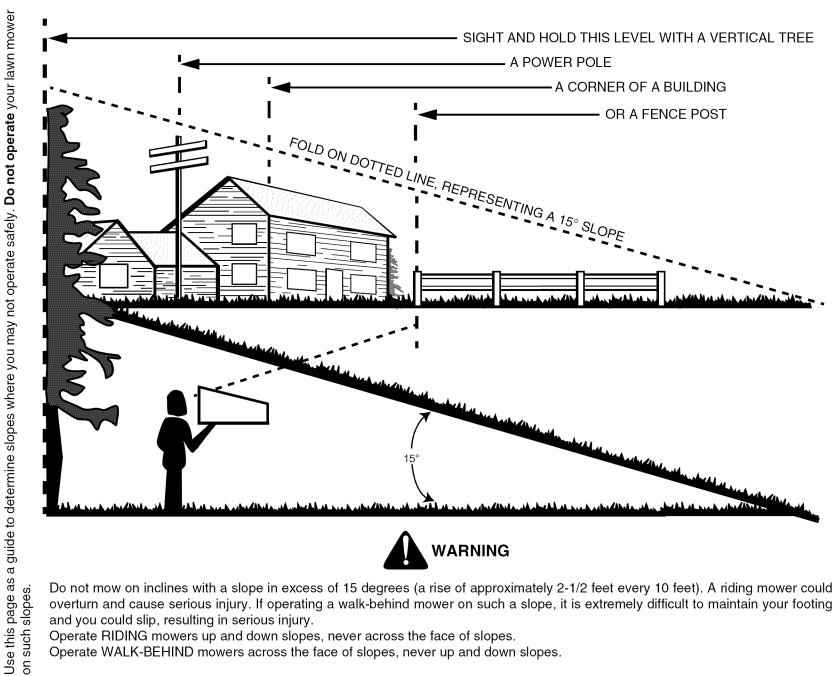
WARNING - YOUR RESPONSIBILITY: Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

NOTE: Not all safety labels shown may apply to your lawn mower.









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 walk-behind 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.

SLOPE GAUGE SECTION 2:

SECTION 3: ASSEMBLING YOUR LAWN MOWER

IMPORTANT: This unit is shipped without gasoline or oil in the engine. Be certain to service engine with gasoline and oil as instructed in the separate engine manual before operating your mower.

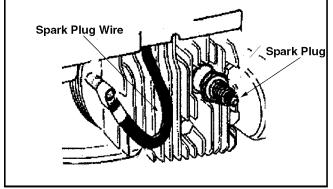
NOTE: Reference to right or left hand side of the mower is observed from the operating position.

Removing Unit From Carton

- Remove staples, break glue on top flaps, or cut tape at carton end and peel along top flap to open carton.
- Remove loose parts if included with unit (i.e., operator's manual, etc.)
- Carefully cut along corners, lay carton down flat, and remove packing material.
- Roll or slide unit out of carton and check carton thoroughly for loose parts.

Disconnecting Spark Plug Wire

Before setting up your lawn mower, disconnect the spark plug wire from the spark plug. See Figure 1.





Setting Up Your Lawn Mower

- Lift up and pull back on the upper handle to raise the handle into the operating position. Make certain the lower handle is seated securely into the handle bracket assemblies. To secure the upper and lower handle, tighten the wing nuts near the top of lower handle (carriage bolts must be seated properly into the handle).
- Tighten the wing nuts at the end of the lower handle to secure the handle to handle bracket assemblies. See Figure 2.

NOTE: Your mower is shipped with the handle in the higher position. If you wish to lower the height of the handle, refer to the Adjustment Section.

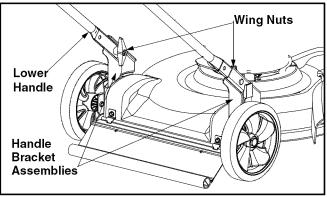


Figure 2

• Fasten the cables to the lower handle with the cable tie found on the lower handle. Pull the cable tie tight and trim off the excess. See Figure 3.



Figure 3

If not already, move rope guide to the first hole above the lower handle on right side. The wing nut loosens and secures the rope guide. See Figure 4.

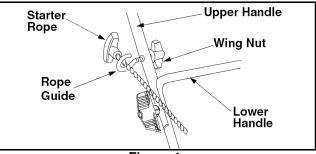


Figure 4

With the spark plug wire disconnected and grounded, hold the blade control handle against the upper handle, and pull the starter rope out of the engine. Release the blade control handle. Slip the starter rope into the rope guide. Tighten the wing nut.

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Removing Chute Retainer

The chute deflector on your mower is held in an upright position by a retainer for shipping purposes only. Remove the retainer by following steps below, before running the mower for the first time.

- Push the chute deflector up and towards the engine. Holding the deflector in this position, remove the retainer. See Figure 5.
- Lower the chute deflector carefully to its operating position keeping your fingers out of the way.

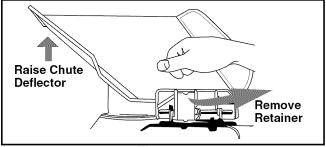


Figure 5

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

Installing Mulching Baffle

If your mower is equipped with the optional mulching baffle, install it on the right side of the deck following these instructions. Make sure to follow the correct sequence as indicated here.

- Lift up and hold the side-discharge chute deflector.
- Insert bottom lip of the mulching baffle **inside** the chute opening. See Figure 6.
- Snap hooks of the mulching baffle over the hinge pin of the chute deflector. See Figure 6. The hooks must snap into place on the hinge pin, locking the mulching baffle firmly onto the mower. For a closeup of the hinge pin location, see inset.
- Release the chute deflector.

NOTE: Install bottom lip inside chute opening (indicated by 1 in the figure below) before placing hooks over the hinge pin (indicated by 2 in the figure below).

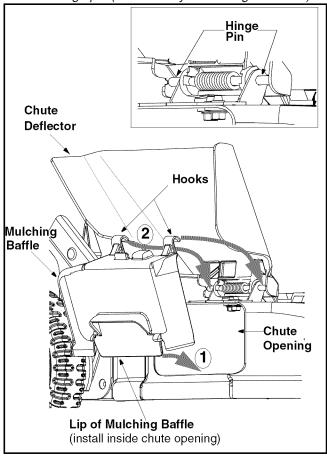


Figure 6

SECTION 4: KNOW YOUR LAWN MOWER

Read this operator's manual and safety rules before operating your lawn mower. Compare the illustration in Figure 7 with your lawn mower to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.



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.

Engine Controls

See the separate engine manual for the location and function of the controls on the engine.

Blade Control Handle

The blade control handle is located on the upper handle of the mower. The blade control handle must be depressed in order to operate the unit. Release blade control handle to stop engine and blade.



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

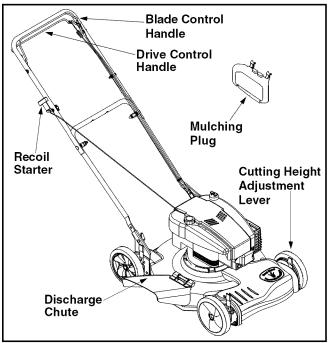


Figure 7

Recoil Starter

The recoil starter is attached to the right lower handle. Stand behind the unit and pull the recoil starter to start the unit. See Figure 7.

Cutting Height Adjustment Levers

These levers are located on each wheel and they are used to adjust the cutting height. All four levers have to be at the same relative position to ensure a uniform cut. See Figure 7.

Drive Control Handle

The drive control handle is located on the upper handle. Squeeze the drive control handle against the upper handle to engage drive system. Release the control handle to disengage the drive system in order to stop, slow down, or backup. See Figure 7.

Stopping Engine

- Release blade control handle to stop the engine and the blade.
- Disconnect spark plug wire and ground against the engine.

SECTION 5: OPERATING YOUR LAWN MOWER

Towards Better Mower Performance

- 1. Pour fresh, clean gasoline into the mower's gas tank until the tank is full. Do not use gasoline that is more than 30 days old.
- 2. Make sure to connect the mower's spark plug wire before trying to start the engine.
- 3. Add engine oil to the oil fill on the mower engine. Check the dipstick and add more if necessary. Remember that the oil level has to touch the fill line.
- 4. Locate the primer decal near the primer bulb on the engine, and read its instruction. Using your thumb, press the primer bulb slowly as many times as the decal advises.

WARNING: Keep hands and feet away from chute area on the cutting deck. The operation of any lawn mower can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields.

NOTE: For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determine which height is best for your lawn. See the Adjustment Section for details.

- 5. Hold control handle down and pull rope firmly to start the engine.
- 6. Set cutting height adjustment lever to middle setting and mow a single pass on your lawn; then adjust to desired height for a closer cut.
- 7. To mulch insert the mulch plug/cover on the mower.
- 8. Before storing the lawn mower for the winter, use stabilizer-treated fuel and run the tank dry.
- 9. Thirty days before start of the new season, check the air filter, spark plug and blade on the lawn mower, and replace if needed.

Gas and Oil Fill-Up

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



WARNING: Never fill fuel tank indoors with engine running or until the engine has been allowed to cool for at least two minutes after running.

Before Starting Your Mower

- Check for proper clutch operation by performing the following procedure before starting the engine.
- With the drive clutch released, push mower forward. It should move freely. Pull mower backward. It should move with only a small amount of resistance.
- If the rear wheels tend to lock up, the clutch may not be releasing completely. Do not start the engine until corrections have been made.
- Check the drive cable for severe bends, kinks, or binding. Also check for grass build-up around the belt.
- If drive clutch control needs adjustment see the Adjustment Section.

Starting Engine

- Attach spark plug wire to spark plug. Make certain the metal cap on the end of the spark plug is fastened securely over the metal tip on the spark plug.
- Prime engine as instructed in the separate engine manual packed with your unit.
- Your lawn mower may be equipped with a constant speed throttle, which is set at full throttle for best performance.
- Stand behind the mower and squeeze the blade control handle against the upper handle.
- Grasp recoil starter handle and pull rope out slowly until engine reaches the start of compression cycle (rope will pull slightly harder at this point). Let the rope rewind slowly. Pull rope with a rapid, continuous, full arm stroke. Keeping a firm grip on the starter handle, let the rope return to the starter slowly.

NOTE: See your engine manual packed with your unit for more detailed instructions.

Stopping Engine

- Release blade control handle to stop the engine and the blade.
- Disconnect spark plug wire and ground against the engine.

Using Your Lawn Mower

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

For best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass, or wet grass may require a narrower cut.

For a healthier lawn, never cut off more than one-third of the total length of the grass. Your lawn should be cut in the fall as long as there is growth. This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of mowing or mulching.



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

Mulching

For effective mulching, do not cut wet grass because it tends to stick to the underside of the deck, preventing proper mulching of grass clippings. New or thick grass may require a narrower cut. The ground speed should be adjusted to the condition of the lawn. If mowing has been delayed and the grass has been allowed to grow in excess of 4", mulching is not recommended. Mow using the side discharge to reduce the grass height to 3 1/4" maximum before mulching.

Making Adjustments



WARNING: Always stop engine, disconnect spark plug, and ground against engine before performing adjustments.

Cutting Height Adjustment

Each wheel has a height adjustment lever which provides cutting height adjustment. When the adjustment lever is moved from one location to another the height of cut will be changed. Simply depress the lever towards wheel and move lever assembly to desired position. See Figure 8.

IMPORTANT: 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 help stop scalping of the grass.

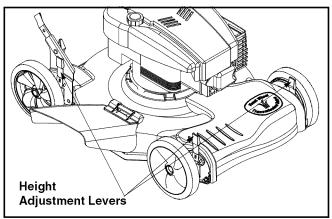


Figure 8

Handle Height Adjustment

Your mower is shipped with the handle in the higher height position. To lower the height proceed as follows:

- Remove the starter rope from the rope guide.
- Disconnect the handle from the handle bracket assemblies by removing the wing nuts. See Figure 9.
- Position each handle bracket assembly stud into the top hole in the lower handle.
- Reconnect the lower handle to the handle brackets using wing nuts removed earlier. Each end of the lower handle must be placed in same relative position.

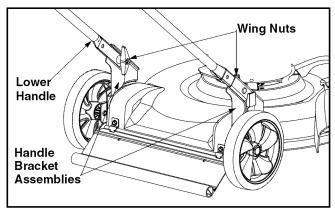


Figure 9

Engine Adjustments

See the separate engine manual packed with your unit for adjustments to the engine.

SECTION 6: MAINTAINING YOUR LAWN MOWER

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	MAINTENANCE SCHEDULE	After Back	Eler Croo	Elen Charles	Elen Soluts	0, 00 000000000000000000000000000000000	Defendence and	No. OF	SERV DAT	
	Lubricate Wheels					\checkmark				
DCT	Lubricate Blade Control					\sim				
PRODUCT	Clean Deck	\swarrow					\swarrow			
	Blade Care		\swarrow				\checkmark			
	Check Oil	\sim								
	Change Oil		\sim				\swarrow			
ENGINE	Replace Air Filter				\sim					
	Clean Engine	\checkmark					\checkmark			
	Check Spark Plug			\swarrow		\sim				
	Check Spark Arrester (if any)			\checkmark						

Customer Responsibilities

General Recommendations

- Always observe safety rules when performing any maintenance.
- Changing of engine governed speed will void engine warranty.
- The warranty on this lawn mower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain the lawn mower as instructed in this manual.
- Some adjustments will have to be made periodically to maintain your unit properly. All adjustments in the Making Adjustments section of this manual should be checked at least once each season.
- Periodically check all fasteners and make sure these are tight.
- Follow the maintenance schedule under Customer Responsibilities to get quality performance from your lawn mower.

Lubrication



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

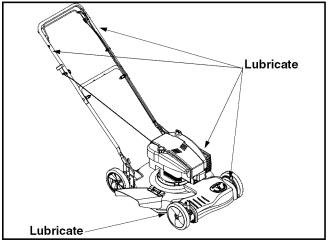
Blade Control Handle and Drive Clutch Control:

Lubricate the pivot points on the blade control handle and the drive clutch control at least once a season with light oil. These handles must operate freely in both directions. See Figure 10.

Wheels: Lubricate the wheels at least once a season with light oil (or motor oil). If the wheels are removed for any reason, lubricate the surface of the axle and inner surface of the wheel with light oil.

Chute Deflector or Mulching Baffle: Lubricate the torsion spring and pivot point periodically with light oil to prevent any rust or binding.

Engine: Follow the separate engine manual packed with you unit for lubrication instructions.





Maintenance

NOTE: When tipping the unit or emptying the fuel tank keep the air cleaner side of engine up. Never tip the mower more than 90 degrees 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.

Engine

Refer to the separate engine manual for all engine maintenance instructions.

- Maintain engine oil as instructed in the separate engine manual packed with your unit.
- Service air cleaner every 25 hours under normal conditions. Poor engine performance and flooding usually indicate that the air cleaner should be serviced. To service the air cleaner, refer to the separate engine manual packed with your unit.

• The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season.

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 grass, dirt, and combustible debris from muffler area.

Deck

The underside of the mower deck should be cleaned after each use to prevent a buildup of grass clippings, leaves, dirt, or other matter. If this debris is allowed to accumulate, it will invite rust and corrosion, and may prevent proper mulching, discharge, or bagging. The deck may be cleaned by tilting the mower and scraping clean with a suitable tool (make certain the spark plug wire is disconnected).

IMPORTANT: We do not recommend the use of a pressure washer or garden hose to clean your unit.

Cutting Blade Removal, Replacement, and Sharpening

- When removing the cutting blade for sharpening or replacement, protect your hands with a pair of heavy gloves or use a heavy rag to hold the blade.
- Remove the bolt and the blade bell support which hold the blade and the blade adapter to the engine crankshaft. See Figure 11.
- Remove the blade and the adapter from the crankshaft.

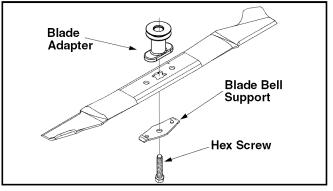


Figure 11



WARNING: Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

When sharpening the blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds. It may cause damage to the mower, and could break causing personal injury. The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly. It is recommended that the blade always be removed from the adapter when testing for balance. Before reinstalling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil.

- Be sure to install the blade with end tips facing up or the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.
- Slide the blade adapter onto the engine crankshaft.
- Place the blade on the adapter. Be certain the blade is aligned and seated on the blade adapter flanges.
- Place blade bell support on blade. Make sure the notches on the blade bell support are aligned with small holes in the blade.
- Replace hex bolt and tighten hex bolt to torque: 450 in. lbs. min., 600 in. lbs. max.

NOTE: To ensure safe operation of your mower, the blade bolt must be checked periodically for correct torque.

Drive Belt Removal And Replacement

- Disconnect the spark plug wire and ground it against the engine.
- Drain the fuel tank or place a piece of plastic beneath the cap to prevent gasoline leakage.
- If unit is tipped for easier access to belt, tip the mower back on its side with the air filter side away from the ground.
- To get easier access to the belt, just securely place the mower on raised blocks.
- Remove the transmission cover by sliding off the two plastic rivets with a screwdriver on each side of cover. See Figure 12.

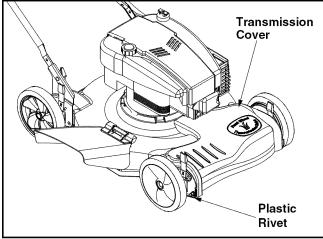


Figure 12

- Using a torque wrench, loosen the screw holding the belt tension spring to the transmission. See Figure 13. Do not remove the screw completely, as you loosen the screw the tension on the belt will be released.
- Push the transmission up a little and slide the belt off the transmission pulley.
- Lift the mower to access the belt from the underside of the mower.

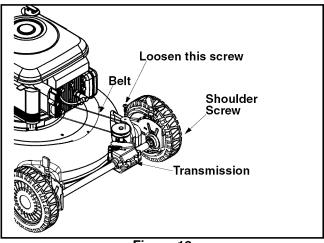
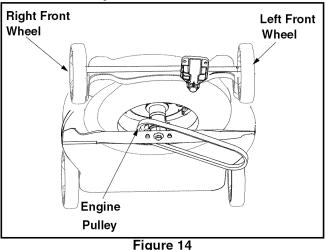


Figure 13

• Slide the belt off the engine pulley and around the blade. See Figure 14.



WARNING: As always, use a thick piece of rag to handle the blade while sliding the belt around it. Make sure the spark plug is disconnected and grounded for this job.

- Replace with the new belt, working around the blade. Make sure the belt is firmly seated on the engine pulley while pulling from the other side and sliding it around the transmission pulley.
- Put the mower down with all four wheels firmly placed on one level.
- Tighten the screw, loosened earlier, to secure the belt tension spring to the transmission, and reassemble the front drive cover.

Off-Season Storage

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

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

NOTE: 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.

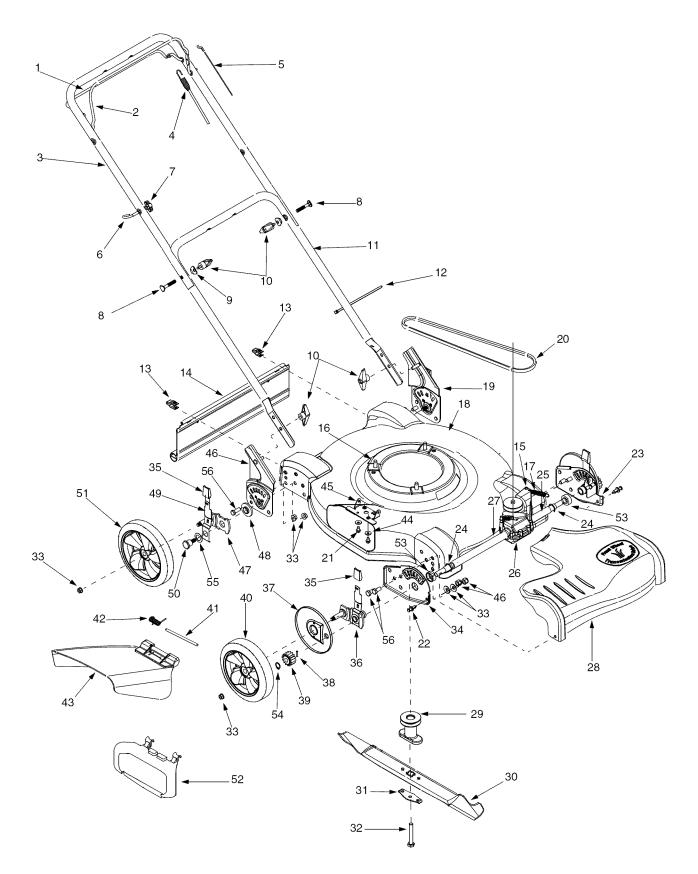
SECTION 7: TROUBLESHOOTING

Problem	Cause	Remedy
Engine fails to start	 Blade control handle disengaged. Spark plug wire disconnected. Fuel tank empty or stale fuel. Blocked fuel line. Faulty spark plug. Engine flooded 	 Engage blade control handle. Connect wire to spark plug. Fill tank with clean, fresh gasoline. Clean fuel line. Clean, adjust gap, or replace. Wait a few minutes to restart, but do not prime.
Engine runs erratic	 Spark plug wire loose. Blocked fuel line or stale fuel. Vent in gas plugged. Water or dirt in fuel system. Dirty air cleaner. Carburetor out of adjustment. 	 Connect and tighten spark plug wire. Clean fuel line; fill tank with clean, fresh gasoline. Clear vent. Drain fuel tank. Refill with fresh fuel. Clean air cleaner. Adjust carburetor.
Engine overheats	 Engine oil level low. Air flow restricted. Carburetor not adjusted properly. 	 Fill crankcase with proper oil. Remove blower housing and clean. Adjust carburetor.
Idles poorly	 Spark plug fouled, faulty or gap too wide. Carburetor improperly adjusted. Dirty air cleaner. 	 Reset gap to.030" or replace spark plug. Adjust carburetor. Clean air cleaner.
Excessive vibration	 Cutting blade loose or unbalanced. Bent cutting blade. 	 Tighten blade and adapter. Balance blade. Replace blade.
Mower will not mulch grass	0	 Do not mow when grass is wet; wait until later to cut. Mow once at a high cutting height, then mow again at desired height or make a narrower cutting path. Sharpen or replace blade.
Uneven cut	 Wheels not positioned correctly. Dull blade. 	 Place all four wheels in same height position. Sharpen or replace blade.
Wheels will not propel	 Belt not installed properly. Debris clogging drive operation. 	 Check belt for proper pulley installation and movement. Clean out debris.

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NOTE: For repairs beyond the minor adjustments listed above, contact your nearest authorized service dealer.

SECTION 8: PARTS LIST FOR MODELS 263 AND 268



Models 263 and 268

Ref. No.	Part No.	Part Description	Ref. No.	Part No.	Part Description
1.	747-1214	Drive Control Handle	29.	748-04016A	Blade Adapter, One Piece
2.	747-1161A	Blade Control Handle	30.	742-0742A	Mulching Blade 22"
3.	749-1092A	Upper Handle	31.	736-0524B	Bell Blade Support
4.	746-04048	Drive Control Cable	32.	710-1044	Hex Cap Screw 3/8-24 x 1.5
5.	746-1132	Blade Control Cable - 40.75"	33.	712-0431	Lock Nut 3/8-16
	746-1113	Blade Control Cable - 37.75"	34.	782-0584	Forward Height Adjustment Plate - RH
	746-1114	Blade Control Cable - 50.56"	35.	720-0426	Adjustment Knob
6.	710-1205	Eye Bolt	36.	687-02141	Spring Lever Assembly - RH (FWD)
7.	720-0279	Wing Nut 1/4-20		687-02140	Spring Lever Assembly - LH (FWD)
8.	710-1174	Carriage Bolt 5/16-18 x 2.0	37.	731-04643	Wheel Dust Cover
9.	736-0451	Shoulder Washer.320 ID x.93 OD	38.	715-0221	Pin
10.	720-0284	Wing Nut 5/16-18	39.	717-1762	Spur Gear 14T - RH
11.	749-04037	Lower Handle		717-1761	Spur Gear 14T - LH
12.	725-0157	Cable Tie	40.	634-04100	Front Wheel Assembly 8 x 1.8
13.	17098	Hinge Clip	41.	747-0710	Hinge Pin
14.	731-04019	Trail Shield	42.	732-1014	Torsion Spring
15.	710-04121	Screw (Included with Item No. 28)	43.	731-1034B	Side Discharge Assembly
16.	710-0654A	Hex Washer Screw 3/8-16 x 1.0	44.	736-0270	Bell Washer.265 ID x.75 OD
17.	732-04049	Spring.47 OD x 2.50	45.	17032A	Deflector Chute Adapter
18.	687-02046	Deck Assembly	46.	682-3064	Handle Bracket Assembly - RH
19.	682-3065	Handle Bracket Assembly - LH	47.	687-02094	Pivot Arm Assembly
20.	754-04003A	V-Belt	48.	741-0751	Height Adjustment Bearing
21.	710-0599	Hex Washer Screw 1/4-20 x.500	49.	732-1026	Spring Lever
22.	728-0199	Rivet	50.	738-1173	Shoulder Screw 3/8-16
23.	782-0585A	Forward Height Adjustment Plate - LH	51.	734-04087	Rear Wheel 8 x 1.8
24.	716-0198	Retainer Ring	52.	631-04045	Snap Mulching Plug
25.	750-04120	Sleeve Spacer.550 ID X 2.22	53.	748-0390	Bearing Spacer
26.	618-04025	Transmission Assembly Complete	54.	716-0865	Snap Ring.500
27.	750-04119	Sleeve Spacer.550 ID x7.42	55.	736-0741	Bell Washer.760 ID x 1.25 OD
28.	731-04636	Transmission Cover	56.	710-00216	Hex Cap Screw 3/8-16 x .75

<u>Notes</u>

<u>Notes</u>

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 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 log on to our Web site at 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 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