YARD-MAN
by MTD
OPERATOR'S MANUAL

21" Self-Propelled Mulching Mower
Model No.
12A-559K401

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 forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 368022 Cleveland, Ohio 44136-9722.

MTD PRODUCTS INC. P.O. BOX 368022 CLEVELAND, OHIO 44136-9722

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<table>
<thead>
<tr>
<th>Content</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safe Operation Practices</td>
<td>3</td>
</tr>
<tr>
<td>Slope Gauge</td>
<td>5</td>
</tr>
<tr>
<td>Finding Model Number</td>
<td>6</td>
</tr>
<tr>
<td>Unpacking</td>
<td>6</td>
</tr>
<tr>
<td>Setting Up Mower</td>
<td>7</td>
</tr>
<tr>
<td>Controls</td>
<td>10</td>
</tr>
<tr>
<td>Operation</td>
<td>11</td>
</tr>
<tr>
<td>Maintenance</td>
<td>13</td>
</tr>
<tr>
<td>Service &amp; Adjustments</td>
<td>14</td>
</tr>
<tr>
<td>Off-Season Storage</td>
<td>18</td>
</tr>
<tr>
<td>Trouble-Shooting Guide</td>
<td>19</td>
</tr>
<tr>
<td>Repair Parts</td>
<td>20</td>
</tr>
<tr>
<td>Warranty</td>
<td>24</td>
</tr>
</tbody>
</table>
SECTION 1: IMPORTANT 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 your lawn mower. Failure to comply with these instructions may result in personal injury. When you see this symbol—heed its warning.

DANGER: Your lawn mower 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. If the operator violates any of these rules, he/she may cause serious injury to himself/herself or others.

1. GENERAL OPERATION

- Read this owner’s guide 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.
- Your rotary mower 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.
- Never allow children under 14 years old to operate a power mower. Children 14 years old and over should only operate mower under close parental supervision. Only responsible individuals who are familiar with these rules of safe operation should be allowed to use your mower.
- Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower to help prevent blade contact or thrown object injury. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
- 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 picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area. Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the like. To help avoid a thrown object’s injury, keep children, bystanders and helpers at least 75 feet from the mower while it is in operation.
- Always wear safety glasses or safety goggles during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.
- 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. Do not wear loose fitting clothes or jewelry. They can be caught in moving parts. Never operate a unit in bare feet, sandals, or sneakers.
- Do not put hands or feet near or under rotating parts. Keep clear of discharge opening at all times as the rotating blade can cause injury.
- Many injuries occur as a result of the mower being pulled over the foot during a fall. Do not hang on to the mower if you are falling; release the handle immediately.
- Never pull the mower toward you while you are walking. If you must back the mower away from a wall or obstruction first look down and behind, and then follow these steps:
  - Step back from the mower to fully extend your arms.
  - Be sure you are well balanced with sure footing.
  - Pull the mower back slowly, no more than half way toward you.
  - Repeat these steps as needed.
- Do not operate the mower while under the influence of alcohol or drugs.
- 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.
- Never operate the mower in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. Mow only in daylight or in good artificial light.
- 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 grasscatcher 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 guards, grasscatcher, plates or other safety protective devices in place.
- Muffler and engine become hot and can cause a burn. Do not touch.
- Only use accessories approved for this machine by the manufacturer. Read, understand, and follow all instructions provided with the approved accessory.
- If situations occur which are not covered in this manual, use care and good judgment. Contact your dealer for assistance.

2. SLOPE OPERATION

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 as shown on the slope gauge, do not operate this...
DO:

• Mow across the face of slopes; never up and down. Exercise extreme caution when changing direction on slopes.
• Watch for holes, ruts, hidden objects, or bumps. 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 in less than 3 seconds.

DO NOT:

• Mow near drop-offs, ditches or embankments. The operator could lose footing or balance.
• Mow slopes greater than 15 degrees as shown on the slope gauge.
• Mow on wet grass. Reduced footing could cause slipping.

3. 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. Never assume that children will remain where you last saw them.

• Keep children out of the mowing area and under the 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.
• Never allow children under age 14 to operate the mower.
• Use extreme care when approaching blind corners, shrubs, trees, or other objects that may obscure your vision of a child or hazard.

4. SERVICE

• Use extreme care in handling gasoline and other fuels. They are extremely flammable and the vapors are explosive.
• Use only an approved gasoline container.
• Never remove gas cap or add fuel while the engine is running. Allow engine to cool at least two minutes before refueling.
• Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
• Extinguish all cigarettes, cigars, pipes and other sources of ignition.
• Never refuel machine indoors because flammable vapors will accumulate in the area.
• Never store the machine or fuel container inside where there is an open flame or spark such as a gas water heater, space heater, or furnace.
• Never run an engine inside a closed area.
• To reduce fire hazard, keep mower free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage. Allow mower to cool at least 5 minutes before storing.
• Before cleaning, repairing, or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
• Check the blade and engine mounting bolts at frequent intervals for proper tightness. Also, visually inspect blade for damage (e.g., bent, cracked). Replace with blade which meets original equipment specifications.
• Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.

• Never tamper with safety devices. Check their proper operation regularly.
• After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before starting and operating the mower.
• Never attempt to make a wheel or cutting height adjustment while the engine is running.
• grass catcher components are subject to wear, damage and deterioration, which could cause objects to be thrown. For safety protection, frequently check components and replace with manufacturer’s recommended parts, when necessary.
• Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
• Do not change the engine governor setting or overspeed the engine. Excessive engine speeds are dangerous.

WARNING: The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

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.
• Following are representations of the safety labels on your lawn mower. Maintain safety while operating the mower.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE
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.

WARNING
SECTION 3: FINDING MODEL NUMBER

This owner’s guide is an important part of your new Yard-Man lawn mower. It will help you to assemble, prepare and maintain your mower. Please read and understand what it says. Before you start assembling the mower for its first use, please locate its model plate and copy the information on to this owner’s guide. The information on the model plate is very important if you need help from your nearest service center or the Yard-Man customer support department.

- Every mower has a model plate. You can locate it by standing behind the unit in the operating position and looking down at the cutting deck.
- The model plate will look like Figure 1.

![Figure 1](image)

SECTION 4: UNPACKING

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., owner’s manual, etc.). See Figure 2.

![Figure 2](image)

- Cut along dotted lines and lay carton down flat. Remove packing material.
- Roll or slide unit out of carton. Check carton thoroughly for loose parts. See Figure 2.

NOTE: Make sure not to crimp the cables while removing the loose parts or the entire unit from the carton.

NOTE: Reference to right or left hand side of the mower and/or front or behind the mower is observed from the operating position.
SECTION 5: SETTING UP MOWER

Tools Required

- Pair of Pliers
- Funnel
- Set of adjustable wrenches

Disconnecting Spark Plug

- Before setting up your lawn mower, disconnect the spark plug wire from the spark plug, and ground it against the engine. See Figure 3.
- If the engine is equipped with the optional rubber boot, attach the boot to a bolt on the engine to ground.

![Diagram of Spark Plug Wire, Rubber Boot, and Engine]

Assembling Handle

- Remove grass bag from the unit and set it out of the way. See Figure 4 (step 1).

![Diagram of Mower Handle]

- Raise the lower handle in the direction shown in Figure 4 (step 2) till it snaps into place.
- Raise the upper handle in the direction shown in Figure 4 (step 3). Tighten the wing nuts which are already on the handle. See Figure 5A.
Note: Make sure to route the cables inside the lower handle. Also do not crimp the cables while lifting the handle up.

- For shipping purposes, the hairpin clip is placed in the outer hole of the weld pin on the lower handle. Remove the hairpin clip from the outer hole of the weld pin.
- Using a pair of pliers, insert the hairpin clip into the inner hole in the weld pin. Repeat on other side. See Figure 5B.
- Attach the cables to the lower handle with the two cable ties already on the lower handle. Pull tight the cable ties and cut off the extra. See Figure 5C below.

\[ \text{FIGURE 5} \]

Attaching Starter Rope
The rope guide is already attached to the right side of the upper handle of your mower. See Figure 6.
- 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.
- Slip the rope through the rope guide as shown below. Tighten the wing nut holding the rope guide to the upper handle.

\[ \text{FIGURE 6} \]
Attaching Grasscatcher

- Lift the rear discharge door and remove the rear mulching baffle from the mower. See Figure 7.

![Rear Mulching Baffle](image)

**FIGURE 7**

**NOTE:** Make sure that the cables are routed to the outside of the handle and out of the way when attaching the grasscatcher.

- Place the hooks of the grasscatcher into the slots in the handle bracket assemblies on both sides. See Figure 7. Release the rear discharge door.
- To remove the grasscatcher, lift the rear discharge door on the mower. Lift the grasscatcher up, out of the slots in the handle bracket assemblies. Reinstall the rear mulching baffle and release the rear discharge door.

![FIGURE 8](image)

**NOTE:** For instructions on how to bag the grass clippings, please refer to page 12 of this manual.

**WARNING:** Never operate the mower unless the hooks on the grasscatcher are seated in the slots on the handle bracket assemblies, and the rear discharge door rests firmly against the top of the grasscatcher.
SECTION 6: CONTROLS

Read this owner's manual and safety rules before operating your lawn mower. Compare the illustrations in Figure 9 with your lawn mower to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

The operation of any lawn mower can result in foreign objects being thrown into the operator's eyes thus causing severe eye damage. **Always wear safety glasses** while operating the mower, or while performing any adjustments or repairs on it.

![Diagram of lawn mower controls](image)

**Blade Control Handle**

**Drive Clutch Control**

**Upper Handle**

**Recoil Starter**

**Lower Handle**

**Throttle Lever**

**Gas Fill Plug**

**Primer**

**Cutting Height Adjustment Lever**

**Grasscatcher**

**Oil Fill Plug**

**FIGURE 9**

**Recoil Starter**

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

**Primer**

The primer is used to pump gas into the carburetor. Use it to start a cold engine, but do not use it to restart a warm engine after short shutdown. Refer to engine manual for illustration.

**Blade Control Handle**

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

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 the blade control handle to stop the engine and the blade.

**Throttle Control**

The throttle control is located on the side of the upper handle and is used to regulate engine speed. It cannot be used to stop the engine.

**Drive Clutch Control**

The drive clutch control lever is located on the upper handle and is used to engage the drive. Squeeze the lever against the upper handle to engage the drive; release the drive clutch control to slow down the mower when negotiating an obstacle, making a turn, or stopping the mower.
SECTION 7: OPERATION

Gas And Oil Fill-Up

Oil:

- Only use high quality detergent oil rated with API service classification SF, SG or SH. Use SAE30 oil; do not use 10W40 oil.
- Fill oil sump and check the oil level following steps below.
  a. Position the mower on level ground and clean area around oil fill plug.
  b. Remove oil fill plug and dipstick. Wipe dipstick clean, insert it into oil fill hole and tighten securely.
  c. Remove dipstick and check oil level. If the oil is not up to FULL mark on the dipstick, pour recommended oil through the oil fill and check the level again.
- Install oil fill plug and dipstick, tighten securely.

NOTE: Although multi-viscosity oils (5W30, 10W30, etc.) improve starting in cold weather, these multiviscosity oils will result in increased oil consumption when used above 32°F. Check the oil level more frequently to avoid possible engine damage from running low on oil.

Gasoline

WARNING: Never fill fuel tank indoors, or when engine is running or hot. Do not smoke when filling up the fuel tank.

- Clean area around fuel cap. Remove cap. Use a funnel to prevent spillage.
- Pour approximately 1.5 quarts of fresh, regular grade, unleaded gasoline slowly to the fuel tank.

IMPORTANT: Never mix engine oil with gasoline.

- Fill tank to 1/2” below the bottom of the filler neck. Wipe any fuel spillage. Do not fill fuel tank completely. Provide space for fuel expansion.

Before Starting Mower

- Attach spark plug wire to spark plug. Make certain the metal cap on the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip on the spark plug.
- Before each use, check drive clutch adjustment. You will have to adjust the drive clutch control if any of the following happens: (refer to page 17 for instructions on adjustment.)
  a. The mower does not propel itself with the drive clutch engaged.
  b. The mower’s drive wheels hesitate with the drive clutch engaged.

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.

When starting the unit for the first time, face the mower against a solid object such as a wall, fence, etc. Start the unit and if it shows any signs of motion while the drive clutch control is still disengaged, shut the engine off immediately.

- Make sure that the drive clutch control is adjusted so the drive belt is as loose as possible.
- Move throttle control lever all the way forward.
- Push primer three times. Wait about two seconds between each push. In cold weather around 55° F or below, prime five times. Do not prime to restart a warm engine after a short shutdown.
- Standing behind the mower, depress the blade control handle and hold it against the upper handle.
• Grasp 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 rewind slowly.
• After the engine starts, move throttle control to desired engine speed.

Stopping Engine
• Move throttle control lever to SLOW position.
• Release blade control handle to stop the engine and the blade.
• Disconnect spark plug wire and move away from spark plug to prevent accidental starting.

Using Your Lawn Mower
• Do not operate the mower without the mulching cover or the discharge chute properly installed and tightly secured.
• Be sure that the 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.
• 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. Blade speed should be adjusted to the condition of the lawn.
• The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.
• For a healthy lawn, always cut off one-third or less of the total length of the grass. Lawn should be trimmed in fall as long as there is growth.
• This mower is designed to run at full throttle to give you the best cut and do the most effective job of bagging the cut grass.

WARNING: If you strike a foreign object, stop the engine. Remove spark plug wire from spark plug, thoroughly inspect the mower for any damage. 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.

Bagging Grass Clippings
You can use the grasscatcher bag to collect clippings while you are operating the mower. Attach the grasscatcher following instructions on page 9 of this manual. The grass clippings will automatically collect in the bag as you run the mower. Operate the mower till the grass bag is full, or the job is completed whichever is earlier. Stop the engine completely by releasing the control handle. Make sure that the unit has come to a complete stop. To empty the grass bag proceed as follows:
• Lift discharge door and pull grass bag away from the mower. See Figure 10A.
• Lift the bag up and away from the mower and dispose of the grass clippings. See Figure 10B.

![Figure 10A](image-url)  ![Figure 10B](image-url)
Adjusting Cutting Height
Refer to height adjustments section of this manual on page 16 for instruction on how to adjust the cutting height and the handle height.

- For best results in mowing, keep the cutting height position high until it is determined which height is best for your lawn.

SECTION 8: MAINTENANCE

WARNING: Always stop the engine and disconnect the spark plug wire before performing any maintenance work or adjustments on your lawn mower.

Cleaning Mower
The underside of the mower deck should be cleaned after each use to prevent any build-up of grass clippings, leaves, dirt, or other debris. If this debris is allowed to accumulate, it will result in rust and corrosion.

- Disconnect spark plug wire.
- Drain the gasoline from the lawn mower, or place a piece of plastic under the gas cap.
- Tip the mower so that it rests on the housing. Keep the side with the air cleaner facing up. Hold the mower firmly.
- Scrape and clean the underside of the deck with a suitable tool.
- Put the mower back on its wheels on the ground. If you had put plastic under the gas cap, make sure to remove it now.

WARNING: 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 Maintenance
- A list of key maintenance jobs required for good performance by the mower is given below. Follow the accompanying engine manual for detailed list and instructions.
- Change engine oil after the first two operating hours and every 25 operating hours thereafter. Check the oil level before starting the engine every time.
- Service foam filter in the air cleaner every 25 hours of use and replace the paper filter component every 100 hours. You may have to service the air filter more frequently if you are operating the mower under extremely dusty conditions.
- Clean the engine periodically. Remove dirt and debris with a cloth or brush. We do not recommend using a garden hose to clean mower unless the muffler, air filter and the carburetor are covered to keep water out. Water in engine can shorten engine life.
- Clean the spark plug and reset the gap to .030" at least once a season or every 50 hours of operation. Spark plug replacement is recommended at the start of each season. Refer to the engine manual for correct spark plug type.
- Inspect muffler periodically, and replace if necessary. Damaged mufflers or spark arresters can create a fire hazard. Make sure to avoid muffler and surrounding areas while the mower engine is hot because temperature of these areas of the engine may exceed 150°F.

Lubrication
For complete lubrication chart, see Figure 12.

Wheels
- Lubricate the wheels and bearings, if so equipped, at least once a season with light oil or engine oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil.
Chute Deflector & Rear Discharge Door

- Lubricate the torsion spring and the pivot point on each end of the chute deflector and the rear discharge door using a light oil. This will prevent rusting and ensure that the deflector, which is a safety device, can always work properly.

Engine

- Follow the engine manual instructions and recommended schedule for lubricating engine components.

Transmission

- The transmission is pre-lubricated and sealed at the factory and does not require lubrication on a regular basis as part of maintenance. It does not require checking either. However, if you disassemble the transmission for any reason, fill with 2 ounces of Alvania grease (part # 737-0168) while reassembling.

Pivot Points

- Lubricate the pivot points on the blade control handle, brake cable and the cutting height adjustment lever at least once a season with light oil. The blade control handle must operate freely in both directions. The cutting height adjustment lever should be able to move easily.

FIGURE 11

SECTION 9: SERVICE & ADJUSTMENTS

Blade Care

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

WARNING: When removing the cutting blade for sharpening or replacement, protect hands by using heavy gloves or a rag to grasp the cutting blade.

- Disconnect spark plug wire from spark plug.
- Turn mower on its side making sure that the air filter and the carburetor are up.
To Remove Blade

- Remove the bolt and bell washer which hold the blade-pulley assembly to the engine crankshaft. See Figure 12A. Remove the assembly from the crankshaft.
- Remove the two bolts and lock nuts from the blade assembly.
- Remove the blade from the blade adapter and pulley.

To Replace Blade:

- Before reinstalling the blade-pulley assembly to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil or engine oil.
- Also lubricate the bolt holes, bolt and the inner surface of the nuts.
- Install the blade adapter on the pulley with the "star" away from the pulley. See Figure 12.

![Diagram of Blade Assembly](image)

- Place the new blade on the blade adapter with the side marked bottom (or with part number) facing away from the adapter.
- Secure the blade to the assembly with two hex bolts and lock nuts. Tighten the hex bolts to the recommended torque. Refer to 'Blade Mounting Torque' section on this page.
- Install the blade assembly on the crankshaft. Secure with the hex bolt and bell washer (cupped side of washer to blade) and tighten to the recommended torque. Refer to 'Blade Mounting Torque' section on this page.

**IMPORTANT:** The bolt, used to secure the blade to the engine, is specially heat-treated. **Do not substitute.** To order replacement bolt, refer to the Parts List section of this manual.

**WARNING:** To ensure safe operation of your unit, all nuts and bolts must be checked periodically for correct tightness.

To Sharpen Blade:

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while operator is on the mower.
- Follow the original angle of grind as a guide. Make sure that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade.

**NOTE:** An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury. Test the blade by balancing it on a round shaft screwdriver or a blade balancer.
- If the blade is not balanced, remove metal from the heavy side until it balances evenly.

**Blade Mounting Torque:**

- Blade adapter bolts: 120 in.lbs. minimum, 150 in.lbs. maximum.
- Center bolt: 450 in.lbs. minimum, 600 in.lbs. maximum.
Replacing Drive Belt

- Remove the two shoulder screws from on top of the deck which secures the belt guard to the mower deck. See Figure 13.
- Remove the belt guard from the unit by lightly pressing inward on the sides of the belt guard. This will release the tabs that secure the belt guard to the height adjuster brackets.
- Remove the idler from the idler bracket using 7/16" wrench and socket. See Figure 13.
- Remove the belt from the transmission pulley as shown in Figure 13.

NOTE: The wheels have been moved forward in this picture for the sake of clarity. Do not remove the wheels away from the mower housing while doing the job.

• Lift the front of the deck and remove the belt from the engine pulley and around the blade. See Figure 14.
• Reassemble in reverse order with new belt (part # 754-0465). NOTE: Begin idler reassembly by inserting bolt up through the idler bracket hole. Adjust the drive clutch following instructions on page 17.

FIGURE 13

FIGURE 14
Adjusting Drive Clutch
- The drive clutch adjustment wheel is located on the drive clutch control handle housing and is used to tighten or loosen the drive belt. See . You will have to adjust the drive clutch control if any of the following happens.
  a. The mower does not propel itself with the drive clutch engaged.
  b. The mower’s drive wheels hesitate with the drive clutch engaged.
- To resolve the above problems, rotate the adjustment wheel with your fingers: clockwise to tighten the cable, and counter-clockwise to loosen the cable. See .

Adjusting Handle Height
Your mower is shipped with the handle in the higher height position. To lower the handle height, proceed as follows.
- Remove the starter rope from the rope guide.
- Remove the upper handle by removing the hand knobs and carriage bolts. Lay the upper handle out of the way, being careful not to bend or kink the cables.
- Remove the hairpin clips from the weld pins on the handle brackets. Refer to Figure 5. Press out on the legs of the lower handle. Remove lower handle from the mower.
- Turn the lower handle around so the notch on the bottom of the lower handle is facing forward as shown in Figure 16A. Reassemble, placing the bottom holes in the handle over the weld pins in the handle mounting bracket.
- Reassemble the upper handle to the lower handle.
- Place the hairpin clips in the inner holes of the weld pins and attach the starter rope as instructed in the Assembly section.

Adjusting Cutting Height
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.
An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has nine height positions. Height of cut will be changed when the thumb lever is moved from one hole to another.

- Simply depress the lever towards the wheel and move the lever assembly to desired position. See Figure 16B.
- For rough or uneven lawns, move the height adjustment handles to higher cutting height position.

**Adjusting Throttle Control**

If the throttle control is out of adjustment or has been replaced, adjust as follows.

- Remove the screw shown in Figure 17. Remove the cable clamp from the cable.
- Push the throttle control lever on the handle all the way forward as far as it will go, then back it off one "click." Make certain the throttle control lever remains in this position.
- Push the control lever on the engine as far toward the rear of the engine as it will go. Secure the cable in this position with the cable clamp and screw.

**Adjusting Carburetor**

If the engine is running rough, minor adjustments to the carburetor may be required to compensate for differences in fuel, temperature, altitude and load. **NOTE:** A dirty air cleaner may cause an engine to run rough too. So make sure that the air cleaner is clean and attached to the carburetor before deciding to adjust the carburetor.

To adjust the carburetor, please follow the recommendations and instructions on carburetor adjustment in the engine manual.

**WARNING:** If any adjustments are made to the engine (e.g. carburetor) while the engine is running, keep clear of all moving parts. Be careful of heated surfaces like the muffler.

**SECTION 10: OFF-SEASON STORAGE**

Prepare your lawn mower for storage at the end of the season or if the unit will not be used for 30 days or more. Store the mower in a clean, dry area.

**Mower**

- Clean underside of the mower following instructions in the Maintenance section of this manual.
- Inspect and replace/sharpen blade, if required. Refer to the Maintenance section of this manual for blade care instructions.
- Lubricate mower following the lubrication chart in on page 13.
- You can fold your mower's handle for convenient storage: Remove the starter rope from the rope guide; loosen the two hand knobs on the sides of the handle, and let the upper handle fold down to the rear. Move the hairpin clips to the outer hole in the weld pins on the handle mounting brackets. Spread the sides of the lower handle, and push it forward and down. **NOTE:** When folding the handle for storage or transportation, be careful not to bend or kink the cables.

**Engine**

- Follow recommendations in the accompanying engine manual for off-season storage of the engine.
- Change oil if it has not been changed in the last three months. For instructions on how to change oil, refer to the engine manual.
- Clean engine and remove any grass clippings, dirt, or chaff from the exterior of the engine.
- Remove any dirt or debris from cooling fins, air intake screen, levers, and linkage.

**Other**
- Do not store gasoline from one season to another.
- Replace your gasoline can if it starts to rust. Rust and/or dirt in the gasoline will cause problems. Store unit in a clean, dry area. Do not store next to corrosive materials, such as fertilizer.

**NOTE:** If storing in an unventilated or metal storage shed, be certain to rustproof the equipment by coating with a light oil or silicone.

### SECTION 11: TROUBLE-SHOOTING GUIDE

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
</table>
| Engine fails to start | 1. Blade control handle disengaged  
2. Spark plug wire disconnected  
3. Throttle control lever not in starting position  
4. Fuel tank empty, or stale fuel  
5. Blocked fuel line  
6. Faulty spark plug  
7. Engine flooded | 1. Engage blade control handle  
2. Connect wire to spark plug  
3. Move throttle lever to correct position  
4. Fill up tank with fresh gasoline  
5. Clean fuel line  
6. Clean, adjust gap, or replace  
7. Crank engine with throttle in FAST |
| Engine runs erratic | 1. Spark plug wire loose  
2. Blocked fuel line or stale fuel  
3. Vent in gas cap plugged  
4. Water or dirt in fuel system  
5. Dirty air cleaner | 1. Connect and tighten spark plug wire.  
2. Clean fuel line, fill tank with clean, fresh gasoline.  
3. Clear vent.  
5. Clean air cleaner. Refer to engine manual. |
| Engine overheats | 1. Engine oil level low  
2. Air flow restricted | 1. Fill crankcase with proper oil.  
2. Clean lawn mower engine. |
| Occasional skip (hesitates) at high speed | 1. Spark plug gap too close | 1. Adjust gap to 0.030 inches. |
| Idles poorly | 1. Spark plug fouled, faulty, or gap too wide  
2. Dirty air cleaner | 1. Reset gap to 0.030 inches or replace spark plug.  
2. Clean air cleaner. |
| Excessive vibration | 1. Cutting blade loose or unbalanced  
2. Bent cutting blade  
2. Replace blade.  
3. Contact your nearest service center |
| Mower will not mulch grass | 1. Engine speed too low  
2. Wet grass  
3. Excessively high grass  
4. Dull blade | 1. Move throttle lever to FAST position.  
2. Wait until later to cut.  
3. Mow once at a high cutting height, then mow again at desired height.  
4. Sharpen or replace blade. |
| Uneven cut | 1. Wheels not in same height position  
2. Dull blade | 1. Reposition all wheels at same height.  
2. Sharpen or replace blade. |

For repairs beyond the minor adjustments listed above, please contact your nearest service center or call 1 (800) 800-7310.
<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Code</th>
<th>Description</th>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>1.</td>
<td>731-1057</td>
<td></td>
<td>Upper Drive Cover</td>
<td>39.</td>
<td>756-1146</td>
<td></td>
<td>Drive Pulley</td>
</tr>
<tr>
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<td>731-0620</td>
<td></td>
<td>Drive Lever</td>
<td>40.</td>
<td>748-0411</td>
<td></td>
<td>Blade Adapter</td>
</tr>
<tr>
<td>3.</td>
<td>731-1058</td>
<td></td>
<td>Lower Drive Cover</td>
<td>41.</td>
<td>742-0741</td>
<td></td>
<td>Mulching Blade: 21&quot;</td>
</tr>
<tr>
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<td>731-1059</td>
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<td>Mounting Cap</td>
<td>42.</td>
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<tr>
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<td>710-0606</td>
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</tr>
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<td>749-0907A</td>
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</tr>
<tr>
<td>8.</td>
<td>749-0439B</td>
<td></td>
<td>Upper Handle: Deluxe Style</td>
<td>52.</td>
<td>712-0798</td>
<td></td>
<td>Hex Nut 3/8-16</td>
</tr>
<tr>
<td>9.</td>
<td>746-0875</td>
<td></td>
<td>Throttle Housing</td>
<td>53.</td>
<td>736-0356</td>
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</tr>
<tr>
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<td>Curved Washer .663 x .980 x .014</td>
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<tr>
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<td>710-0605</td>
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<td>Oval C-Sunk Screw 1/4-20 x 1.81</td>
<td>56.</td>
<td>682-3056</td>
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<tr>
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<tr>
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<tr>
<td>17.</td>
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<td>Carriage Bolt 5/16-18 x 2.0</td>
<td>61.</td>
<td>732-0866</td>
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</tr>
<tr>
<td>18.</td>
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<td>62.</td>
<td>738-0507B</td>
<td></td>
<td>Foam Grip</td>
</tr>
<tr>
<td>19.</td>
<td>726-0240</td>
<td></td>
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<td>63.</td>
<td>736-0105</td>
<td></td>
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</tr>
<tr>
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<td>714-0104</td>
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<td>734-1860</td>
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<tr>
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<tr>
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</tr>
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<td>67.</td>
<td>731-1235</td>
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<td>Rear Baffle</td>
</tr>
<tr>
<td>27.</td>
<td>782-0080</td>
<td></td>
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<td>68.</td>
<td>747-0995</td>
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<td>Pivot Rod</td>
</tr>
<tr>
<td>28.</td>
<td>782-5004</td>
<td></td>
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<td>732-0809</td>
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<td>Torsion Spring</td>
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<tr>
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<td></td>
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<tr>
<td>34.</td>
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<td>36.</td>
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<td></td>
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<td>Bearing Retainer</td>
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<td>Bearing Support</td>
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<td>5.</td>
<td>712-0396</td>
<td>Lock Nut 1/4-28</td>
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<td>Wave Washer 1.5 x 1.0 x .029</td>
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<td>Height Adj. Plate RH</td>
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<td>782-7598</td>
<td>Belt Keeper</td>
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<td>Height Adj. Plate LH</td>
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<td></td>
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<td>8.</td>
<td>741-0124</td>
<td>Ball Bearing</td>
<td></td>
<td>Pivot Plate Assembly</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>9.</td>
<td>721-0457</td>
<td>Oil Seal</td>
<td></td>
<td>Front Lever RH</td>
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<td>Flange Spacer</td>
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<td>682-0028</td>
<td>Idler Bracket Assembly</td>
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<td>Knob</td>
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<td>710-0299</td>
<td>Hex Cap Screw 1/4-28 x 1.00 Gr. 5</td>
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<td>Snap Ring 1.0 dia.</td>
<td></td>
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</tr>
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<td>15.</td>
<td>736-0570</td>
<td>Flat Washer .865 x 1.145 x .030</td>
<td></td>
<td>Wheel Dust Cap</td>
<td></td>
<td></td>
<td></td>
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<td>16.</td>
<td>741-0699</td>
<td>Needle Bearing .438 x .625 x .500</td>
<td></td>
<td>Gear 14T RH FWD</td>
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</tr>
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<td>17.</td>
<td>721-0325</td>
<td>Plug 1/4 x .437</td>
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<td>Gear 14T LH FWD</td>
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<td></td>
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<td>618-0300</td>
<td>Housing Assembly: Upper</td>
<td></td>
<td>Wheel: 8x2 Yellow, Link Trd.</td>
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<td>721-0329</td>
<td>Oil Seal .500 x .687 x .009</td>
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<td>741-0673</td>
<td>Flange Bearing</td>
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<td>Hubcap: Yellow</td>
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<td>21.</td>
<td>611-0105</td>
<td>Output Shaft</td>
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<td></td>
<td></td>
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<td>736-0520</td>
<td>Flat Washer .504 x .700 x .030</td>
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<td>717-1492</td>
<td>Pinion Shaft 10T</td>
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<td>Cable Idler Bracket</td>
<td></td>
<td></td>
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<td>736-0314</td>
<td>Thrust Washer .375 x .70 x .030</td>
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<td>Dowel Pin</td>
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<td>618-0299</td>
<td>Lower Housing</td>
<td></td>
<td>Cotter Pin .08 x 1.42</td>
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<td></td>
<td></td>
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<td>741-0672</td>
<td>Flange Bearing .378 x .531 x .370</td>
<td></td>
<td>Screw</td>
<td></td>
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<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>28.</td>
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MANUFACTURER’S LIMITED WARRANTY FOR:

YARD-MAN™

For TWO YEARS from the date of retail purchase within the United States of America, its possessions and territories, MTD PRODUCTS INC will, at its option, repair or replace, for the original purchaser, free of charge, any part or parts found to be defective in material or workmanship. This warranty covers units which have been operated and maintained in accordance with the operating instructions furnished with the unit, and which have not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance or alteration.

Normal wear parts or components thereof are subject to separate terms as noted below in the "No Fault Ninety Day Consumer Warranty" clause.

All normal wear part failures will be covered on this product for a period of 90 days regardless of cause. After 90 days, but within the two year period, normal wear parts failures will be covered ONLY IF caused by defects in material or workmanship of OTHER component parts. Normal wear parts are defined as batteries*, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, shave plates 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, please check the yellow pages or contact the Customer Service Department of MTD PRODUCTS INC, P. O. Box 368022, Cleveland, Ohio 44136-9722. Phone 1 (800) 800-7310. The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by the Customer Service Department of MTD PRODUCTS INC.

Transportation charges: Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser.

Units exported out of the United States: MTD PRODUCTS INC does not extend any warranty for products sold or exported outside of the United States of America, its possessions and territories, except those sold through MTD PRODUCTS INC’s authorized channels of export distribution.

Other Warranties:
1. The engine or component parts thereof carry separate warranties from their manufacturers. Please refer to the applicable manufacturer’s warranty on these items.
2. *Batteries are covered by a 90-day replacement warranty.
3. Log splitter pumps, valves and cylinders or component parts thereof are covered by a one year warranty.
4. All other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose, are hereby expressly disclaimed in their entirety.
5. The provisions as set forth in this warranty provide the sole and exclusive remedy of MTD PRODUCTS INC’s obligations arising from the sales of its products. MTD PRODUCTS INC will not be liable for incidental or consequential loss or damage.

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. Certain disclaimers are not allowed in some states and therefore they may not apply to you under all circumstances.

NOTE: This warranty does not cover routine maintenance items such as lubricants, filters, blade sharpening and tune-ups, or adjustments such as brake adjustments, clutch adjustments or deck adjustments. Nor does this warranty cover normal deterioration of the exterior finish due to use or exposure.