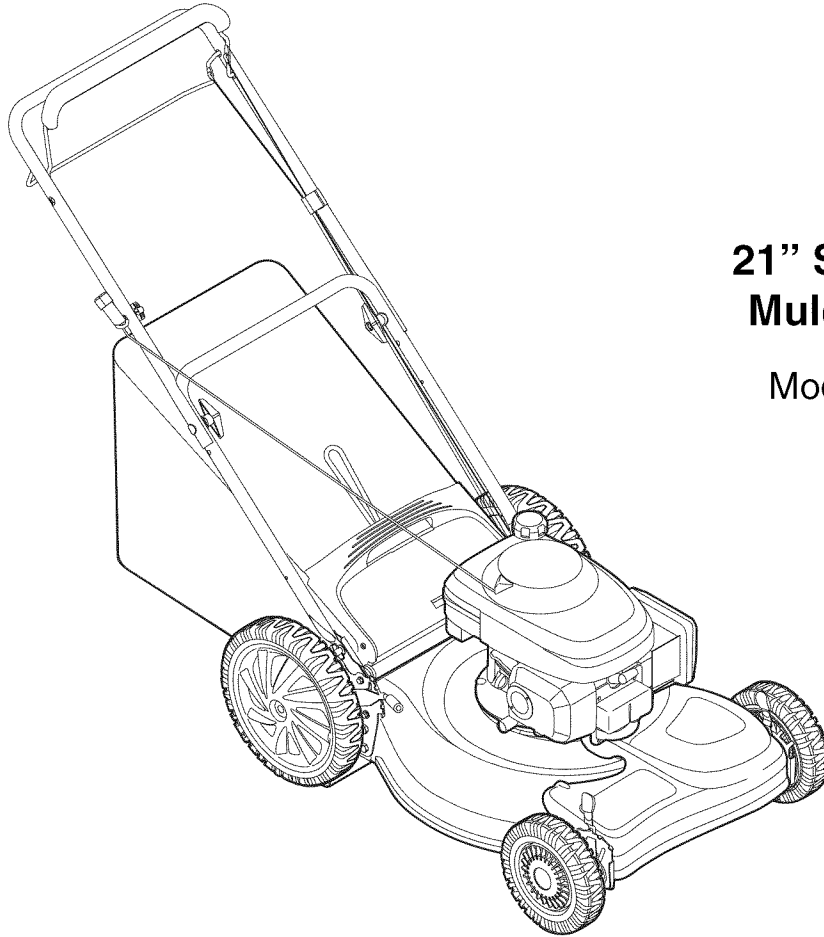




Operator's Manual



21" Self Propelled Mulching Mower

Model Series 556

IMPORTANT: Read safety rules and instructions carefully before operating equipment.

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

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

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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:

	<p>Visit yardman.com for many useful suggestions. Click on Customer Support button and you will get the four options reproduced here. Click on the appropriate button and help is immediately available.</p> <div style="text-align: center; margin: 20px 0;"> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;"> <p><i>The answer you are looking for could be just a mouse click away!</i></p> </div> <div style="width: 45%; text-align: center;"> <p><i>The answer you are looking for could be just a mouse click away!</i></p> </div> </div>
	<p>If you prefer to reach a Customer Support Representative, please call 1-800-800-7310.</p>
	<p>The engine manufacturer is responsible for all engine-related issues with regards to performance, power-rating, specifications, warranty and service. Please refer to the engine manufacturer's Owner's/Operator's Manual, packed separately with your unit, for more information.</p>

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.

WARNING: 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 safe operation rules should use this machine.
4. Thoroughly inspect the area where 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 bystanders, helpers, children and pets at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
6. Always wear safety glasses to protect your eyes during equipment operation and while performing an adjustment or repair. 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.
5. Do not operate the mower while under the influence of alcohol or drugs.
6. Do not engage the self-propelled mechanism on units so equipped while starting engine.
7. 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.
8. 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.

9. Mow in daylight or good artificial light; walk, not run.
10. Stop the blade when crossing gravel drives, walkways or roads.
11. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
12. 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.
13. 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.
14. Muffler and engine become hot and can cause a burn. Do not touch.
15. Only use parts and accessories made by the original equipment manufacturer (O.E.M). Failure to do so can result in personal injury.
16. 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. Before operating this unit on a slope or hilly area, use the slope gauge on page 6 to measure slopes. 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 caution when changing direction.
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.
6. 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. If possible, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
6. Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
7. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
8. Never fuel machine indoors because flammable vapors will accumulate in the area.

9. Never remove gas cap or add fuel while 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 manufacturer'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.

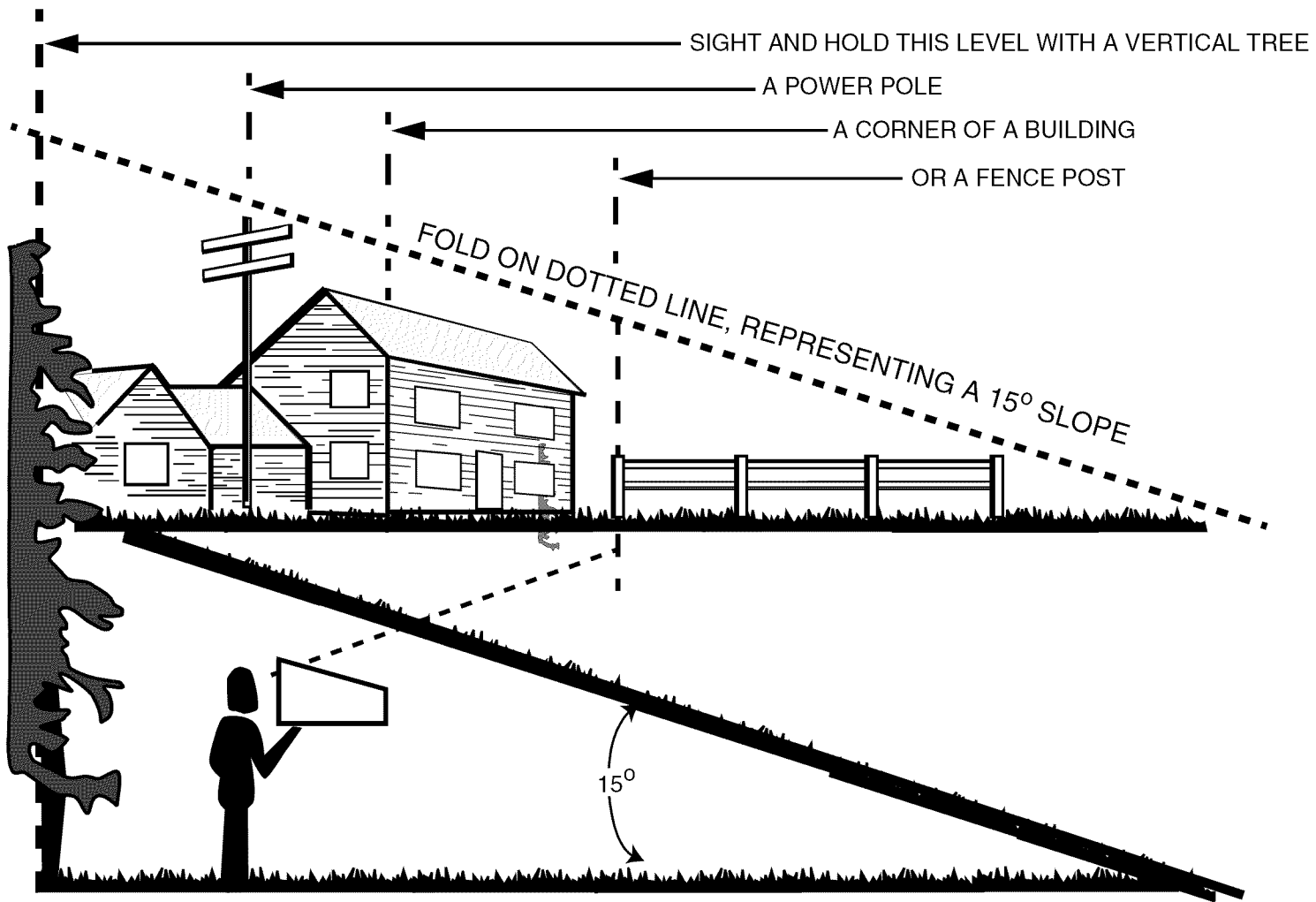
Your Responsibility

- 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.



SECTION 2: SLOPE GAUGE

Use this page as a guide to determine slopes where you may not operate safely.



WARNING

Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2-1/2 feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a 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.

SECTION 3: ASSEMBLING YOUR LAWN MOWER

Removing Unit From Carton

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

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

NOTE: The indentation in your mowing deck is intentional and not a defect. It allows the manufacturer different configurations than the one you currently have. See Figure 1.

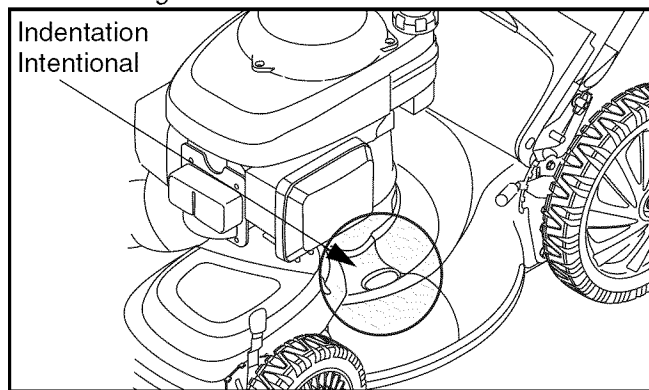


Figure 1

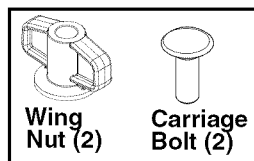
Tools Required

- Pair of Pliers
- Funnel

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

Hardware Pack

Please identify each piece of the hardware pack as shown in figure here.



Assembling Handle

- Remove grass bag from the unit and set it out of the way. See Figure 2 (step 1).

- Remove any packing material which may be between the upper and lower handles for shipping purposes.

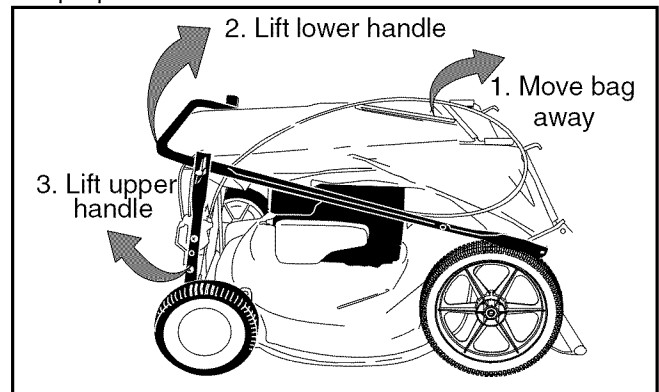


Figure 2

- Raise the lower handle in the direction shown in Figure 2 (step 2) till it snaps into place.
- Raise the upper handle in the direction shown in Figure 2 (step 3). Tighten the wing nuts which are already on the handle. See Figure 3.

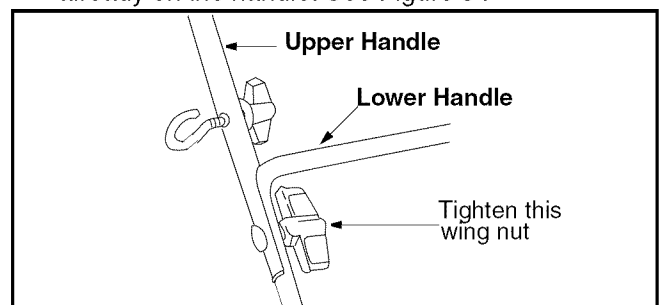


Figure 3

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. See Figure 4.
- Using a pair of pliers, insert the hairpin clip into the inner hole on the weld pin. Repeat on other side. See Figure 4.

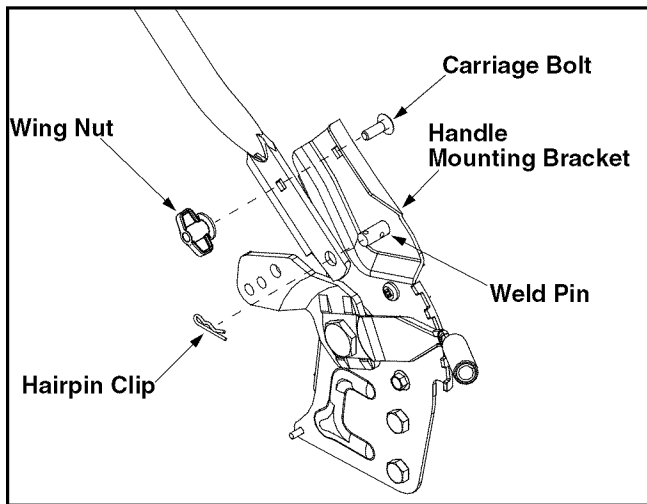


Figure 4

- Insert the carriage bolt, included in the hardware pack, in the upper hole on the handle mounting bracket (carriage bolt must go to the inside of handle). Secure with one plastic wing nut, also included in the hardware pack. Repeat on the other side with remaining items from the hardware pack.
- Attach cables to the lower handle with the two cable ties already on the lower handle. Insert pegs on cable ties into the holes on the lower handle. Pull cable ties tight and cut off the extra.

Attaching Starter Rope

The rope guide is already attached to the right side of the upper handle of your mower. See Figure 5 .

- With spark plug wire disconnected and grounded, hold the blade control 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.

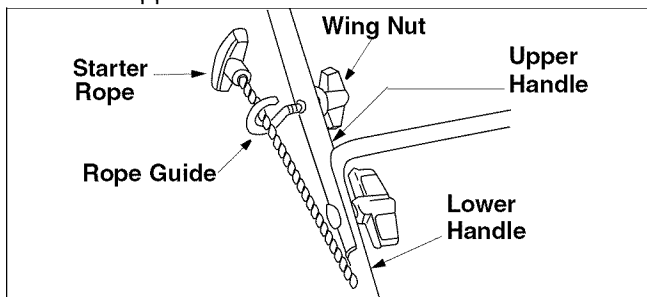


Figure 5

Assembling Grass Catcher

NOTE: If the grass catcher came pre-assembled, proceed to the next section. If not, follow the steps below to assemble it before attaching to the mower.

- Insert frame into grass bag with the black plastic side on the bottom of bag. See Figure 6.

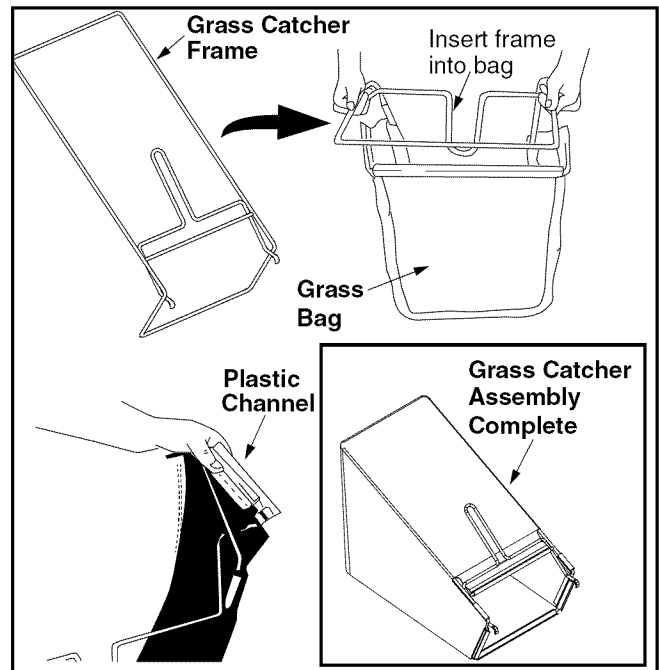


Figure 6

- Slip the openings in the side of the plastic channel on bag over the hooks on the grass catcher frame. Secure bag to the frame by working the six plastic channels on bag over frame. All of the plastic channels except the center top of the bag attach from the outside of bag. The center top of the bag attaches from inside the bag. See Figure 6.



WARNING: When using the mower to bag grass clippings, make sure the hooks on the grass catcher are firmly seated on the chute pivot rod, and the rear discharge door rests firmly against the top of the grass catcher.

Attaching Grass Catcher

- Lift the rear discharge door and place the grass catcher on the pivot rod. Let go of discharge door so that it rests on the grass catcher. See Figure 7.

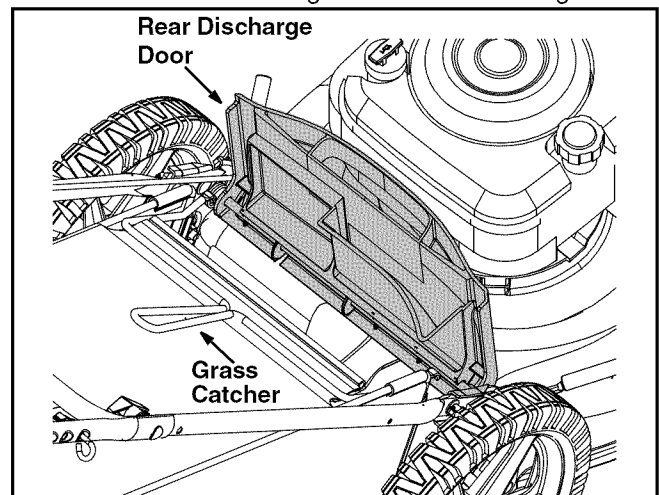


Figure 7

SECTION 4: KNOW YOUR LAWN MOWER

Read this owner's manual and safety rules before operating your lawn mower. Compare the illustrations in Figure 8 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 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.

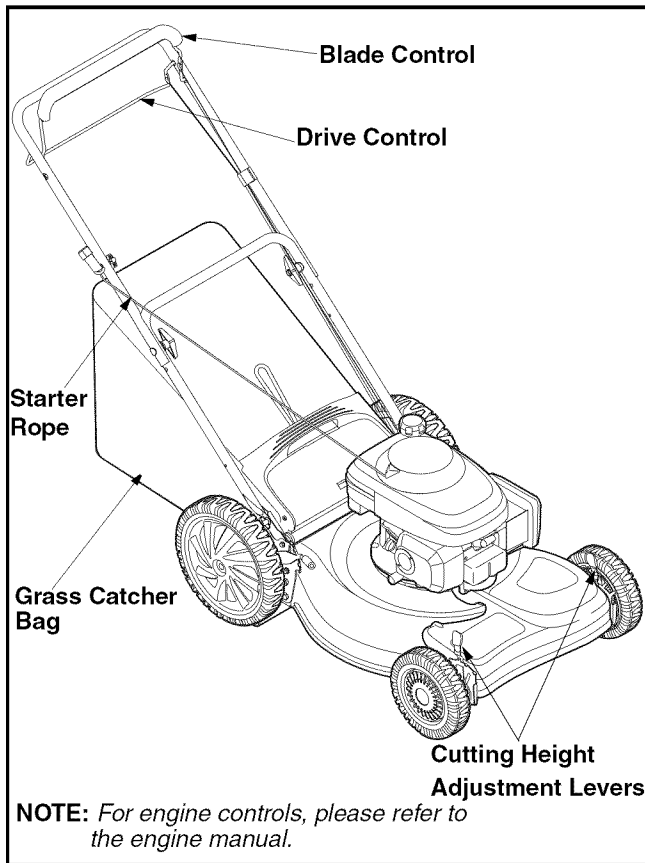


Figure 8

Starter Rope

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

Blade Control

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



WARNING: The blade control is a safety device. Never attempt to bypass its operations or alter it in any way.

Drive Control

The drive control is located on the upper handle and is used to engage the drive. Squeeze the drive control against the upper handle to engage the drive; release it to slow down or stop the mower from propelling.

Cutting Height Adjustment Lever

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 uniform cut.

SECTION 5: OPERATING YOUR LAWN MOWER



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

Gas & Oil Fill-Up

- Check oil level and add oil if necessary. Follow relevant instructions in the engine manual for this.
- Service the engine with gasoline as instructed in the engine manual.



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

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.

Throttle Speed

Your lawn mower engine is equipped with a constant speed throttle, which is set at full throttle for best performance.

Starting Engine



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

WARNING: Never run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

WARNING: Keep hands, feet, hair and loose clothing away from any moving parts on engine and lawn mower.

- Make sure the fuel valve lever found on the left side of the engine is in the ON position. See Figure 9.

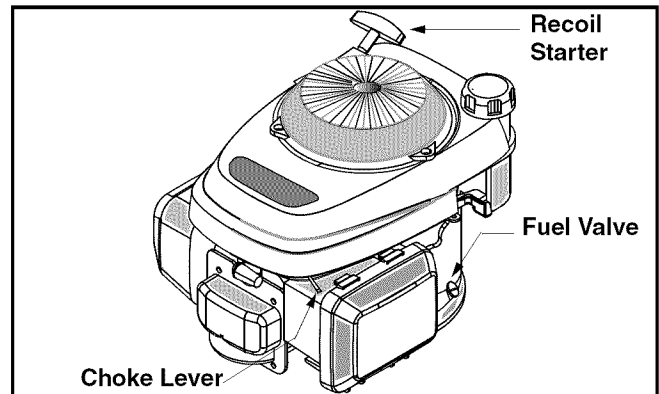


Figure 9

- Move the choke lever all the way backward into the choke position. Once the engine is warm, the lever will automatically revert to the RUN position. Refer
- Standing behind the mower, depress the blade control 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.

To Stop Engine

- Release the blade control to stop engine and blade.
- Disconnect spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

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

Using Your Lawn Mower

- You can use your mower as a mulcher or a rear bagger.
- 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 accidentally 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.
- 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.

Adjusting Cutting Height

Refer to height adjustments section of this manual on page 13 for instruction on how to adjust the cutting



WARNING: If the mower strikes a foreign object, stop the engine. Remove spark plug wire from the spark plug and thoroughly inspect for any damage. Repair the damage promptly before restarting and operating the mower.

height and the handle height.

For best results in mowing, keep the cutting height position high until you can determine a suitable height.

Bagging Grass Clippings

You can use the grass catcher bag to collect clippings while you are operating the mower.

- Attach grass catcher following instructions on page 8. Grass clippings will automatically collect in the bag as you run the mower. Operate the mower till the grass bag is full.
- Stop engine completely by releasing the blade control handle. Make sure that the unit has come to a complete stop.
- Lift discharge door and pull grass bag up and away from the mower to dispose of the grass clippings.

SECTION 6: MAINTAINING YOUR LAWN MOWER



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.

NOTE: *We do not recommend the use of pressure washers or garden hose to clean your unit. These may cause damage to pulleys, bearings, or the engine. The use of water will result in shortened life and reduce serviceability.*

- 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. Do not spray with water.
- 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 in any directions and do not leave the mower tipped for any length of time. Oil can drain into the upper part of the engine causing a starting problem.

Engine Care

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 regularly, as instructed in the engine manual. Check oil level before starting engine every time.
- Service air cleaner regularly. You may have to service this 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.
- Clean the spark plug and reset the gap to .030" at least once a 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.



WARNING: Avoid muffler and surrounding areas while the mower engine is hot because temperature of these areas of the engine may exceed 150° F.

Lubrication

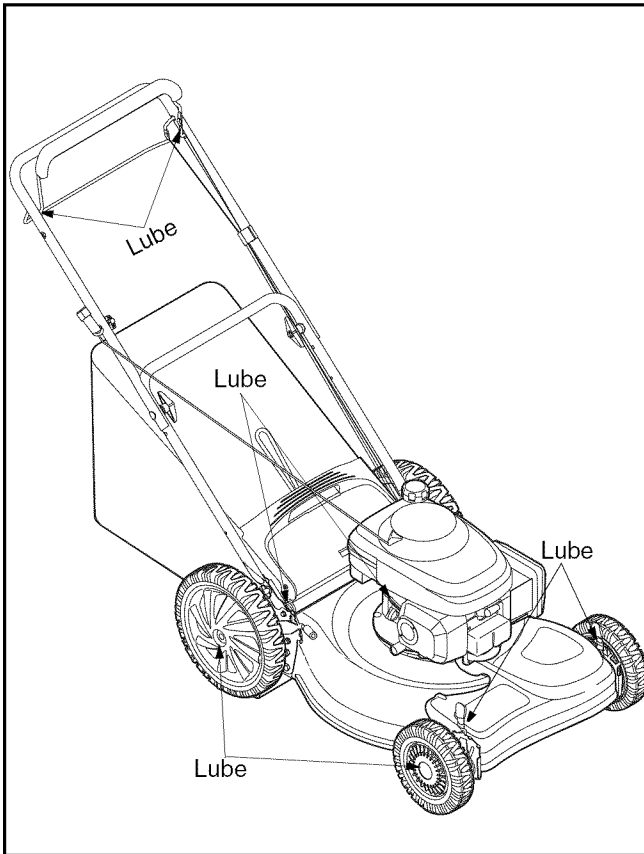


Figure 10: Lubrication Chart

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 pivot arm axle and the inner surface of the wheel with light oil.

Rear Discharge Door

- Lubricate the torsion spring and the pivot point on each end of the rear discharge door using a light oil.

Transmission

- The transmission is pre-lubricated and sealed at the factory and does not require lubrication on a regular basis as part of maintenance.

Blade Control

- Lubricate the pivot points on the blade control and the brake cable at least once a season with light oil. The blade control must operate freely in both directions.

Engine

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

Blade Care

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



WARNING: When removing the cutting blade for sharpening or replacement, protect hands by using heavy gloves or a thick 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 hex bolt which holds the blade adapter-pulley assembly to the engine crankshaft. See Figure 11. Remove the pulley assembly and the bell support from the crankshaft.
- Remove blade from the blade adapter and pulley.

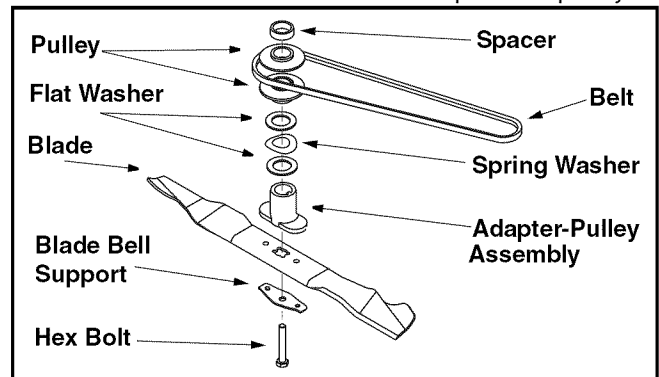


Figure 11

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.
- Also lubricate the bolt hole and the hex bolt.
- Insert the hex bolt, earlier removed, through the center holes on the blade bell support and the blade adapter-pulley assembly respectively.
- Install the blade assembly on the crankshaft. Tighten the hex bolt to the recommended torque.

Blade Mounting Torque:

Center bolt: 450 in.lbs. minimum, 600 in.lbs. maximum.

To Sharpen Blade:

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen the blade while it is still on the mower.
- 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.

SECTION 7: SERVICE & ADJUSTMENTS

Replacing Drive Belt

- Remove two shoulder screws securing the front drive cover to the mower deck. See Figure 12.

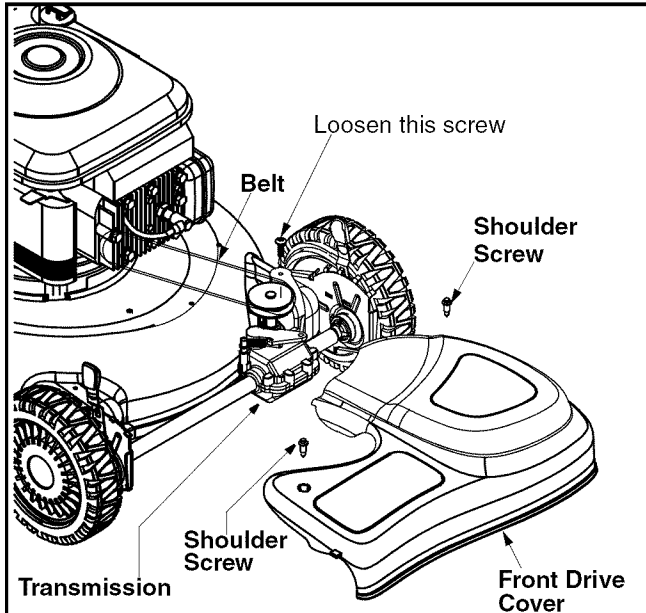


Figure 12

- Press inward on the sides of the front drive cover and release the tabs that secure the front drive cover to the height adjuster brackets. Remove drive cover from the mower.
- Using a torx wrench, loosen the screw holding the belt tension spring to the transmission. See Figure 12. Do not remove the screw completely. As you loosen the screw, tension on the belt will release.
- 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.



WARNING: Use a thick piece of rag to handle the blade while sliding the belt in the next step. Make sure the engine does not start at all while doing this job.

- Slide the belt off the engine pulley and around the blade. See Figure 13.
- 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.

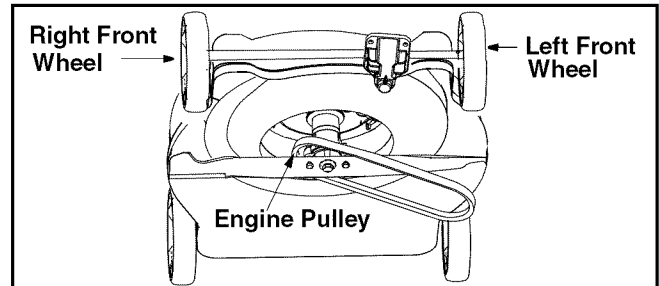


Figure 13

Replacing Rear Flap

- To remove rear flap, cut off the flat end of the wire rod which secures it to the deck. See Figure 14.
- Attach the new flap and new rod to deck, bending the ends of the new rod over to secure to deck.

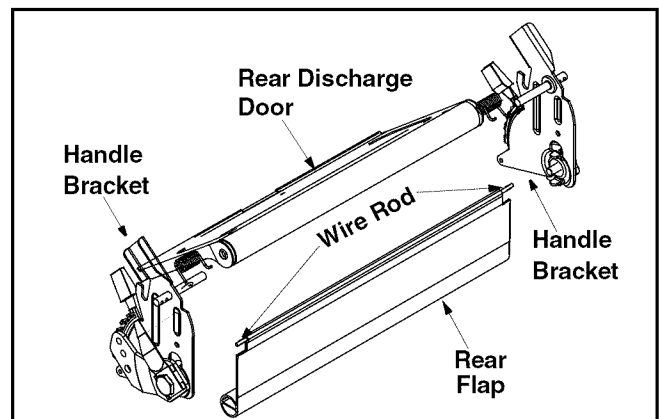


Figure 14

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 provides cutting height adjustment. Each adjusting plate has nine height positions. Height of cut will be changed when you move the thumb lever from one position to another.

- Simply depress the lever towards the wheel and move the lever assembly to desired position. See Figure 15.
- For rough or uneven lawns, move the height adjustment handles to higher cutting height position.

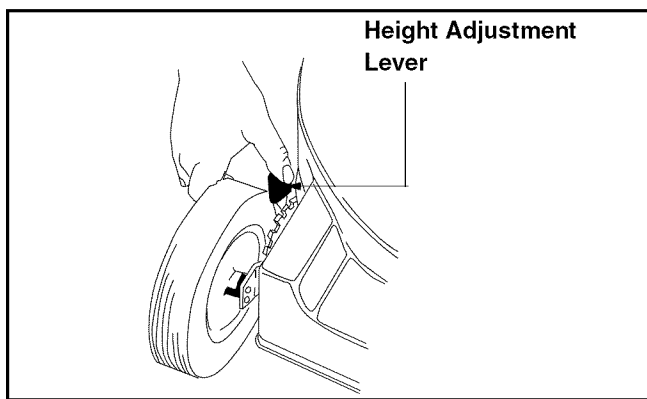


Figure 15

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: *Dirty air cleaner may cause an engine to run rough. Before adjusting carburetor, check air cleaner.*

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 8: 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 Maintain Your Lawn Mower section of this manual.
- Lubricate mower as instructed on page 12.
- 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.
- Inspect and replace/sharpen blade, if required.

Engine

- Follow recommendations in the 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.

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.

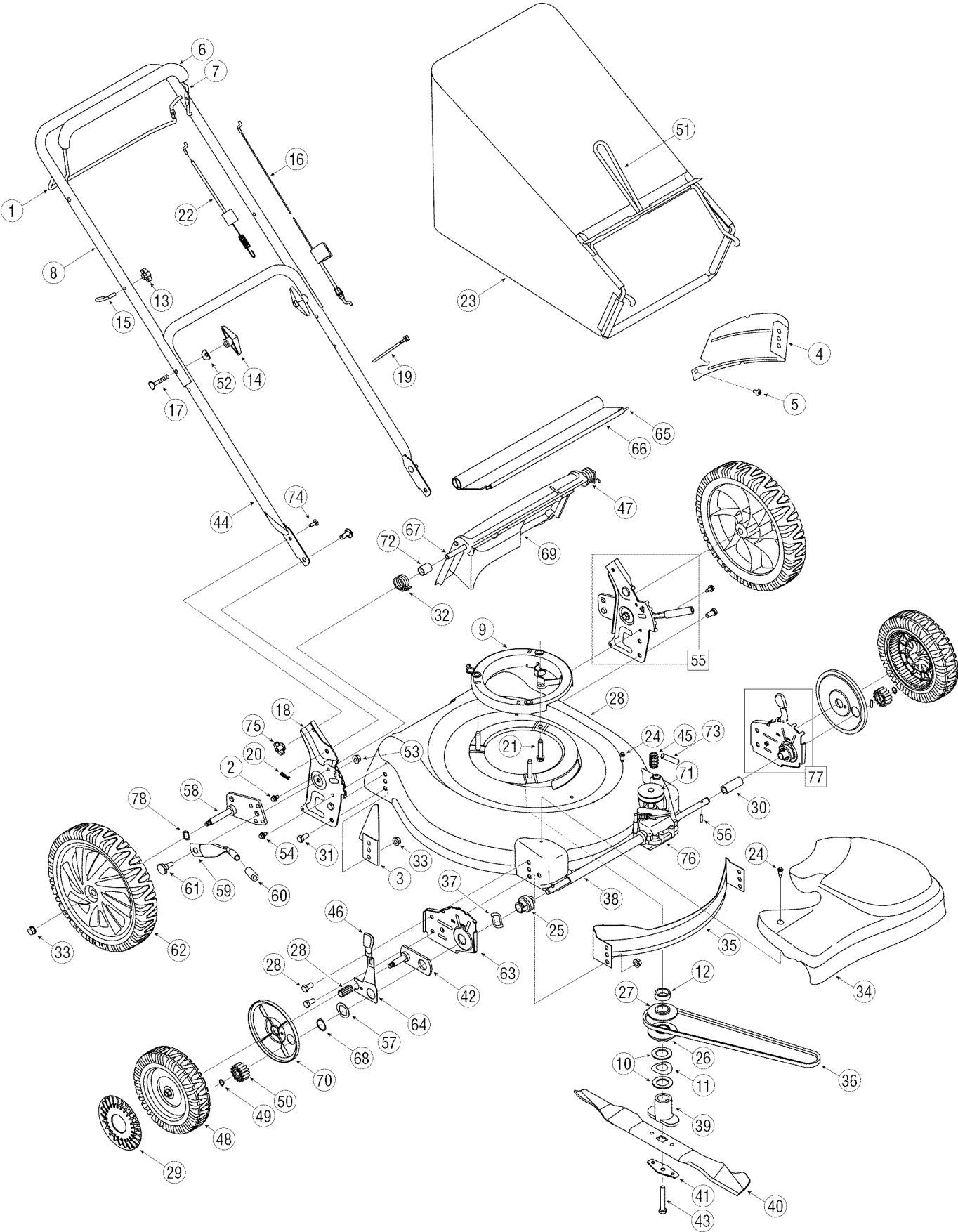
NOTE: *If storing in an unventilated or metal storage shed, be certain to rustproof the equipment by coating with a light oil or silicone.*

SECTION 9: TROUBLE-SHOOTING

Problem	Possible Cause	Corrective Action
Engine fails to start	<ol style="list-style-type: none"> 1. Blade control disengaged 2. Spark plug wire disconnected 3. Fuel tank empty, or stale fuel 4. Blocked fuel line 5. Faulty spark plug 6. Engine flooded 	<ol style="list-style-type: none"> 1. Engage blade control. 2. Connect wire to spark plug. 3. Fill up tank with fresh gasoline. 4. Clean fuel line. 5. Clean, adjust gap, or replace. 6. Wait a few minutes to restart. Do not prime.
Engine runs erratic	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Connect and tighten spark plug wire. 2. Clean fuel line, fill tank with fresh gasoline. 3. Clear vent. 4. Drain fuel tank. Refill with fresh fuel. 5. Clean air cleaner. Refer to engine manual.
Engine overheats	<ol style="list-style-type: none"> 1. Engine oil level low 2. Air flow restricted 	<ol style="list-style-type: none"> 1. Fill crankcase with proper oil. 2. Clean lawn mower engine.
Occasional skip (hesitates) at high speed	<ol style="list-style-type: none"> 1. Spark plug gap too close 	<ol style="list-style-type: none"> 1. Adjust gap to .030 inches.
Idles poorly	<ol style="list-style-type: none"> 1. Spark plug faulty, or gap too wide 2. Dirty air cleaner 	<ol style="list-style-type: none"> 1. Reset gap to .030 inches or replace spark plug. 2. Clean air cleaner.
Excessive vibration	<ol style="list-style-type: none"> 1. Blade loose or unbalanced 2. Bent cutting blade 3. Bent engine crankshaft 	<ol style="list-style-type: none"> 1. Tighten blade and adapter, balance blade. 2. Replace blade. 3. Contact the nearest service center
Mower will not mulch grass	<ol style="list-style-type: none"> 1. Wet grass 2. Excessively high grass 3. Dull blade 	<ol style="list-style-type: none"> 1. Wait until grass is dry to cut. 2. Mow once at a high cutting height, then mow again at desired height. 3. Sharpen or replace blade.
Uneven cut	<ol style="list-style-type: none"> 1. Wheels not at same height 2. Dull blade 	<ol style="list-style-type: none"> 1. Reposition all wheels at same height. 2. Sharpen or replace blade.
Mower will not self propel	<ol style="list-style-type: none"> 1. Belt not installed properly. 2. Debris clogging drive operation. 3. Damaged or worn belt. 	<ol style="list-style-type: none"> 1. Check belt for proper pulley installation and movement. 2. Stop engine, disconnect spark plug wire and clean out debris. 3. Inspect and replace belt.

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

SECTION 10: PARTS LIST MODEL 556



Model Series 556

Ref. No	Part No.	Description	Ref. No	Part No.	Description
1.	747-1214	Drive Control	43.	710-1257	Hex Screw 3/8-24 x 2.50
2.	710-0599	TT Screw 1/4-20 x 0.5	44.	749-0928A	Lower Handle
3.	782-5004B	Rear RH Baffle 21" Rd.	45.	732-1043	Belt Tension Spring
4.	782-5003A	Rear LH Baffle 21" Rd.	46.	720-0426	Adjustment Knob
5.	710-1017	Hex Washer Head Tap Screw	47.	732-04089A	Torsion Spring - LH
6.	731-2626	Deluxe Bail Cover	48.	734-2042	Front Wheel, 8 x 2.125 Gear Zag Blk
7.	747-1161A	Blade Control	49.	716-0865	Snap Ring
8.	749-1092A	Upper Handle	50.	717-1762	Gear 14T RH FWD
9.	631-0075B	Engine Assembly Spacer		717-1761	Gear 14T LH FWD
10.	736-0250	Flat Washer 1.00 x 1.75 x .107	51.	747-04080	Grass Bag Frame
11.	736-04173	Spring Washer 1.005 x 1.825 .048	52.	736-0451	Saddle Washer
12.	750-04438	Sleeve Spacer 25mm x1.375 x.440	53.	712-3005	Hex Flange Lock Nut 3/8-16
13.	720-0279	Handle Knob	54.	710-1652	TT Scr. w/Washer 1/4-20 x.625
14.	720-0284	Handle Knob	55.	687-02057	Handle Bracket Assembly - LH
15.	710-1205	Eye Bolt		687-02056	Handle Bracket Assembly - RH
16.	746-1113	Control Cable - 37.75"	56.	715-0221	Dowel Pin
17.	710-1174	Carriage Bolt 5/16-18 x 2.0	57.	736-0474	Washer
18.	687-02033	Handle Bracket - RH	58.	687-02039	Pivot Arm Assembly - RH
	687-02031	Handle Bracket - LH		687-02040	Pivot Arm Assembly - LH
19.	726-0240	Cable Tie	59.	732-0866	Rear Spring Lever
20.	714-0104	Cotter Pin	60.	720-0312	Foam Grip
21.	710-1008	Self-Tapping Sems Screw	61.	738-0507B	Shoulder Scr.500 Dia. x.434
22.	746-04112A	Drive Cable - 50.50"	62.	734-04093	Rear Wheel, 12 x 2.125
23.	664-04027	Grassbag Assembly	63.	782-0512B	Height Adjuster Plate - RH
24.	710-1650	Shoulder Screw # 12 -24		782-0511A	Height Adjuster Plate - LH
25.	682-0015	Front Bearing Assembly	64.	732-0706	Front Lever - RH
26.	756-04160	Half Key Pulley 25mm x 2.62 O.D.		732-0707	Front Lever - LH
27.	756-04161	Half Upper Pulley 25mm x 2.62 O.D.	65.	732-0700	Wire
28.	787-01248	21" Deck SS SP	66.	731-04998	Rear Trailing Shield
29.	731-0981A	Hub Cap	67.	747-0996	Pivot Rod
30.	750-1166	Slev. Spacer 2.1" Lg.	68.	716-0102	Snap Ring
31.	710-0216	Hex Screw 3/8-16 x.75	69.	731-04134A	Rear Discharge Door
32.	732-04090A	Torsion Spring - RH	70.	782-7551A	Wheel Dust Cap
33.	712-04065	Flange Lock Nut 3/8-16	71.	756-04017	Input Pulley
34.	731-05013A	Transmission Cover (Black)	72.	750-04162	Spacer.375 x.50 x 1.02" Lg.
35.	782-5002B	Front Baffle	73.	715-04011	Roll Pin
36.	754-0637A	V-Belt	74.	710-0703	Carriage Bolt 1/4-20
37.	736-0447	Wave Washer	75.	712-0397	Wing Nut
38.	750-04178	Sleeve Spacer 9.04" Lg.	76.	618-0657	Transmission Assembly
39.	748-04082	Blade Adapter w/ Pulley	77.	682-0512A	Height Adjustment Assembly - RH
40.	742-0741	21" Mulching Blade		682-0511A	Height Adjustment Assembly - LH
41.	736-0524B	Blade Bell Support	78.	736-0182	Spacer Washer .500 x 1.00 x .022
42.	687-02044	Pivot Plate Assembly			

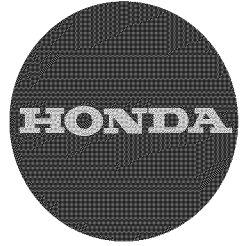
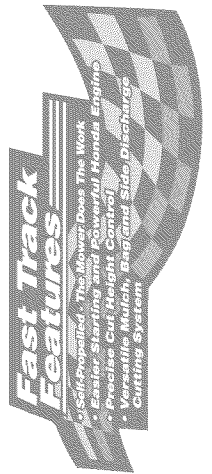
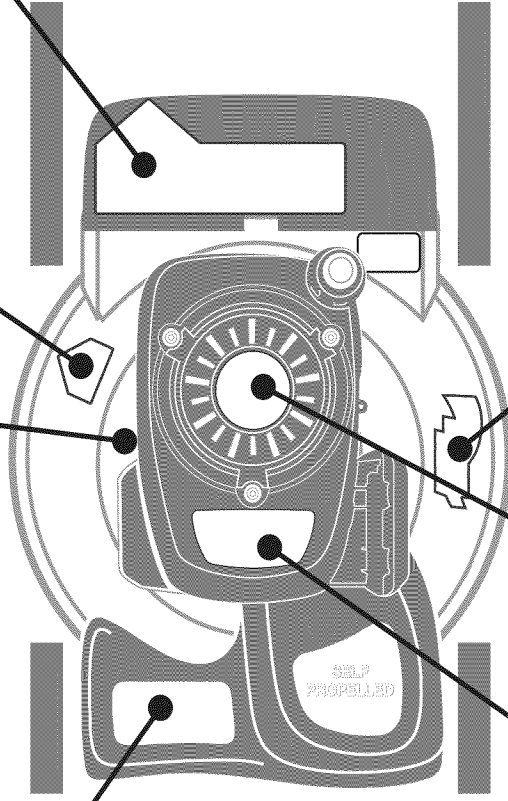
BAGGER DOOR



USE SAE **10W30** OIL
18.5 oz. CAPACITY

RIGHT SIDE OF HANDLE BARS
ADJACENT TO DOUBLE BAILS
FACING INSIDE OF HANDLES

DRIVE CONTROL BLADE CONTROL



NOTES

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