# NOOVER<br/>Models<br/>22"<br/>Front Drive

This Instruction Book contains information for several models. Read and keep this book for future reference. This book contains important information on SAFETY, ASSEMBLY, OPERATION, AND MAINTENANCE.

## **PRODUCT INFORMATION**

The owner must be certain that all the product information is included with the unit. This information includes the INSTRUCTION BOOKS, the REPLACEMENT PARTS and the WARRANTIES. This information must be included to make sure state laws and other laws are followed.

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RECORD THE FOLLOWING INFOR INFORMATION IS NECESSARY WH OR THEFT.		• • • • • • • • • • • • •	
WHERE PURCHASED:			<b>·</b>
DATE PURCHASED: Month	Day	_Year	•
MODEL NO.:	DATE OF MANUE	ACTURE:	•
F-050442L			

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## MURRAY, INC. Two Year Limited Warranty

Murray, Inc. warrants to the original purchaser that this unit shall be free from defects in material and workmanship under normal use and service for a period of **Two (2) Years** from the date of purchase; however, this warranty does not cover engines, accessories (such as snow blowers, snow blades, grass baggers and plows), transmissions, batteries and Normal Wear Parts (except as noted below) or transaxles as the companies that manufacture these items furnish their own warranties and provide service through their authorized field service facilities. For additional information, see the warranties covering these particular parts. If you are uncertain whether your unit contains or is equipped with one or more of these parts, consult your dealer prior to purchase. Subject to the terms and conditions noted in this Limited Warranty, we shall, at our option, repair or replace at no cost to the original purchaser any part covered by this Limited Warranty during the applicable warranty period.

In the event the battery proves defective within ninety (90) days from the date of purchase, we will replace it without charge. If the battery proves defective after (90) days but within one hundred twenty (120) days from the date of purchase, we will replace it for a charge of one half (1/2) of the retail price of the battery in effect at the time of return.

Normal Wear Parts are defined as belts, blades, blade adapters, pneumatic tires, headlights and seat covers. These parts are warranted to be free from defects in material and work-manship as delivered with the product. Any claim for repair or replacement of Normal Wear Parts must be made within thirty (30) days of the date of purchase. No claims involving damage caused from material use, abuse or misuse will be honored.

This **Murray, Inc. Two (2) Year Limited Warranty** is your exclusive remedy; however, this warranty is void or does not apply to any unit that has been tampered with, altered, misused, abused or used for rental or other commercial and/or professional (non-homeowner) uses. Your warranty does not cover minor mechanical adjustments which are not due to any defect in material or workmanship. For assistance in making such adjustments, consult your Instruction Book.

To make a claim under this **Murray, Inc. Two (2) Year Limited Warranty**, return the unit (or if authorized in advance, the defective part) along with your proof of purchase to an Authorized Service Center near you. To locate the nearest Authorized Service Center, call the Central Parts Distributor for your area shown in the list provided with your unit or check the Yellow Page listings in your local telephone directory. If you return the entire unit, we will repair the unit. If we authorize the return of the defective part only, we will either replace or repair the part. In the case of a defect in a transmission or differential (as distinguished from a transaxle), the entire transmission or differential must be returned since they do not include user serviceable parts.

This **Murray, Inc. Two (2) Year Limited Warranty** gives you specific legal rights, and you may also have other rights which vary from state to state. **This Limited Warranty is given in lieu of all other expressed and implied warranties including the implied warranty of merchantability and warranty of fitness for a particular purpose.** If you need additional information on this written warranty or assistance in obtaining service, call or write to the address below. The model number along with the CUSTOMER CARE Center 1-800 number is on the Model Number Nameplate attached to the unit.

MURRAY, INC. Outdoor Power Equipment Customer Service Department P.O. Box 268 Brentwood, Tennessee 37027

# **OWNER'S INFORMATION**

This instruction book is written for a person with some mechanical ability. Like most service books, not all the steps are described. Steps on how to loosen or tighten fasteners are steps anyone can follow with some mechanical ability. Read and follow these instructions before you use the unit.

**Know your product:** If you understand the unit and how the unit operates, you will get the best performance. As you read this manual, compare the illustrations to the unit. Learn the location and the function of the controls. To help prevent an accident, follow the operating instructions and the safety rules. Keep this manual for future reference.

**IMPORTANT:** Many units are not assembled and are sold in cartons. It is the responsibility of the owner to make sure the assembly instructions in this manual are exactly followed. Other units are purchased in an assembled condition. On assembled units, it is the responsibility of the owner to make sure the unit is correctly assembled. The owner must carefully check the unit according to the instructions in this manual before it is first used.

# **RESPONSIBILITY OF THE OWNER**

#### The responsibility of the owner is to follow the instructions below.

- 1. Carefully read and follow the rules for safe operation.
- 2. Follow all the assembly and preparation instructions.
- 3. Inspect the unit.
- Make sure that the operator of the unit knows how to correctly use all standard and accessory equipment.
- 5. Operate the unit only with guards, shields, and other safety items in place and working correctly.
- 6. Correctly adjust the unit.
- 7. Service the unit only with authorized or approved replacement parts.
- 8. Complete all maintenance on the unit.

WARNING:
Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other repro- ductive harm.
Battery posts, terminals and related accesso- ries contain lead and lead compounds, chemi- cals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.

## IMPORTANT Safe Operation Practices for Walk-Behind Mowers.

This cutting 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.

#### I. General Operation

- Read, understand, and follow all instructions on the machine and in the manual(s). Be thoroughly familiar with the controls and the proper use of the mower before starting.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Only allow responsible individuals, who are familiar with the instructions, to operate the mower.
- 4. Thoroughly inspect the mower and area where the equipment is to be used. Clear the area of objects such as rocks, toys, wire, bones, sticks etc., which could be picked up and thrown by the blade.
- 5. Be sure the area is clear of other people before mowing. Stop mower if anyone enters the area.
- Do not operate the mower when barefoot or wearing open sandals. Always wear substantial foot wear.
- Do not pull mower backwards unless absolutely necessary. Look down and behind before and while moving backwards.
- Do not operate the mower without proper guards, plates, grass catcher or other safety protective devices in place.
- See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.
- 10. Stop the blade(s) when crossing gravel drives, walks, or roads.
- Stop the engine (motor) whenever you leave the equipment, before cleaning the mower or unclogging the chute.
- 12. Shut the engine (motor) off and wait until the blade comes to complete stop before removing grass catcher.
- 13. Mow only in daylight or good artificial light.
- Do not operate the mower while under the influence of alcohol, drugs or other medica-F-050442L
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tion which can cause drowsiness or affect your ability to operate this machine safely.

- 15. Never operate mower in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk; never run.
- Disengage the self-propelled mechanism or drive clutch on mowers so equipped before starting the engine (motor).
- 17. If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble such as a blade that is damaged, a loose blade, or the engine mounting bolts are loose.
- 18. Always wear safety goggles or safety glasses with side shields when operating mower to protect your eyes from foreign objects which can be thrown from the unit.
- Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the like.
- 20. After striking a foreign object, stop the engine. Remove the wire from the spark plug. Inspect the blade and mower for damage. If damaged, repair before starting and operating the mower.
- 21. Keep any washout ports and other mower housing service openings closed when mowing.

#### II. Slope Operation

Slopes are a major factor related to slip and fall accidents which can result in severe injury. All slopes require extra caution. If you feel uneasy on a slope, do not mow it.

#### DO:

Mow across the face of slopes; never up and down. Do not mow excessively steep slopes (maximum 15 degrees) or areas where the ground is very rough. See the "Guide" in the back of this manual to check a slope. Exercise extreme caution when changing direction on slopes.

Remove objects such as rocks, tree limbs, etc.

Watch for holes, ruts, or bumps. Tall grass can hide obstacles.

#### (Continued Following Page)

# IMPORTANT

#### DO NOT:

*Do not* mow near drop-offs, ditches, or embankments. The operator could lose footing or balance.

Do not mow excessively steep slopes.

*Do not* mow on wet grass. Reduced footing could cause slipping.

#### III. 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.
- 2. Be alert and turn mower off if children enter the area.
- 3. Before and while moving backwards, look behind and down for small children.
- 4. Never allow children to operate the mower.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

#### **IV. Service**

- \*1. Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - a. Use only an approved container.
  - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
  - c. Never refuel the machine indoors.
  - d. Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run an engine indoors or inside a closed area.
- Never make adjustments or repairs to items such as the height adjusters or grass catcher with the engine (motor) running. Discon-

nect the spark plug wire, and keep the wire away from the plug to prevent accidental starting. Always wear eye protection when you make adjustments or repairs.

- Keep all nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- 5. Never tamper with safety devices. Check their proper operation regularly.
- 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 before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- 8. Never attempt to make wheel height adjustments while the engine (motor) is running.
- Always disconnect electric mowers (live operated) before cleaning, repairing, or adjusting.
- 10. Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary. For storage, always make sure grass catcher is empty.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- 12. Do not change the engine governor setting or over-speed the engine.
- 13. Frequently check the blade for wear or damages such as cracks and nicks. A blade that is bent or damaged must be immediately replaced with a factory replacement blade. For safety and good cutting performance, replace the blade every two years. Frequently check the blade bolt and the engine mounting bolts. Replace damaged bolts and tighten loose bolts.
- 14. Use only original equipment or authorized replacement parts.

\* Asterisked items do not apply to electric mowers.

Every person who uses power equipment must learn the difference between proper and improper use, safe and unsafe mowing practices. **Read the next few pages carefully. They can help you learn.** Too often the mower user is inexperienced, not properly instructed, or has not read the Instruction Book and instructions on the unit before using it for the first time. This can result in unsafe use endangering the operator, bystanders, and the equipment. Another result can be a poor appearance of the area mowed.

Read this Instruction Book. Read the instructions on the unit. Operate the mower according to the Safe Mowing Guide and other safety rules and recommendations in this Instruction Book and on the unit. Make sure anyone who uses the unit has read the instructions and has been told how to operate the mower safely.



Your mower is designed to provide good service and durability in normal residential cutting. If the mower is not properly serviced and maintained or used on unsuitable terrain or in conditions not suitable for mowing, product performance and safety will be reduced.

Proper attire is an important part of safe mowing. Safety glasses protect the eyes from thrown objects. Safety shoes with steel toes can protect a foot from being cut by the blade. Shirts and pants that cover the arms and legs can stop or deflect a thrown object.



Practice using the mower before you actually begin cutting grass. Select a large open level area. Learn the location and function of the controls and how they work. It is important that the blade can be stopped quickly in an emer-F-050442L gency. Learn how to cut and how to keep control of the mower at all times.

Many mowers are started manually. When using a pull start or rope start, place your feet firmly and away from the blade. Hold the rope handle securely, but never wrap the rope around your arm or fingers for a "better grip". The mower is designed for use by one person. Always mow alone. Never carry passengers. Carrying a passenger is dangerous for the passenger and the operator. A mower is not for amusement or for carrying objects.



Is the area you are planning to mow wet? Never cut a wet lawn. Cutting wet grass can cause an accident. It can affect mower performance and also cause problems with future lawn growth and appearance. Wet grass is slippery and might cause the operator to fall or the mower to slip. Someone could be hurt by touching the blade. Wet grass tends to clog the mower, causing poor discharge. Wet clippings bunch up on the lawn retarding the growth of grass. A wet mower can cause parts to rust and reduce the useful life of the unit.



When you look over the lawn, refresh your memory about hard, immovable obstacles such as pipes, stumps, and rocks and avoid them. They can cause damage to the mower or an accident injuring the operator or a bystander. Take a litter bag along and walk over the area to be cut. Pick up any stones, toys, wire, bones, or other loose objects. These items can damage the mower or they can become dangerous flying objects if the mower blade hits them. The blade of a power mower travels very fast. It can throw rocks and other objects with force over long distances. Objects thrown by mowers can break windows, cause

bruises, or even put out an eye. Often the person hurt by a thrown object is a bystander such as a child, another family member or a neighbor. Keep people and pets completely away from the mowing area. Direct the mower's discharge away from areas where people can be. Planning your mowing pattern has a double benefit. It can reduce chances of an injury and make the clean up after mowing easier.

Are there ditches, walls, or major inclines in the area to be cut? Plan the mowing pattern to avoid such danger areas. Inclines and rough terrain must be mowed carefully and some areas must not be cut with a mower at all. walk behind With equipment, mow across the incline so that if you or the mower slip, you won't run into each other.



Never mow slopes greater than 15 degrees. See the "Guide" in the back of this Instruction Book to check any slopes.

Ready to start cutting? Not yet. Be sure the mower has been fully assembled according to directions in the Instruction Book. Even if assembly was done by a lawn and garden shop or the store where the unit was purchased, it must be checked. Are all nuts, bolts and screws tight? Does the engine have oil? These items must be checked periodically throughout the life of the mower.

Your mower has a gasoline engine. Gas is dangerous. Store fuel only in a approved gas container. Do not store large amounts of gas. Put out all cigarettes, pipes and cigars before working with gasoline. Store fuel and the mower itself in a well ventilated area away from any possible source of ignition such a pilot light on a furnace. If the mower is to be stored for an extended time, remove the gas from the tank. This minimizes the chance of a fire and keeps the tank clear of deposits and old gasoline, thus improving mower performance. Move the mower outside before adding gasoline. Use a funnel and wipe up any spilled fuel before starting. Remember, gasoline expands when heated so leave some expansion room. Also, most mower gas caps are vented to allow for expansion. Always use the proper cap. People are needlessly burned by fires, hurt in explosions, mowers and other property are damaged because of failure to follow basic safety rules related to gasoline and fueling.

Never add gasoline to an engine that is running or that is hot from recent use, this can cause an accident. Remove dry grass and other debris from the mower. Keeping the mower clean will F-050442L improve the performance, help the engine stay cooler, extend the life of moving parts, and minimize the danger of fire. People get burned working with and around their mowers for other reasons than fire and explosions. It takes only a few seconds of operation for the engine and the muffler to become hot. Do not touch these parts when the mower is running. Stop the engine and let it cool down before servicing the mower. Remember, exhaust fumes can be dangerous. Never operate the engine indoors or in an enclosed area.



Getting a new mower can be a big event for a family. Let family members satisfy their curiosity about the mower and at the same time, tell them about its dangers. Remember, a mower is not a toy and is not for use by children or anyone lacking in age, strength or experience.

As with any power equipment, a mower can be dangerous if not assembled, misused, or not properly maintained. The most important rule is to always use good judgement and common sense.

Your mower will cut thick grass and heavy plant stems with ease. Fingers and toes are no more resistant to the mower's blade. Many people are injured because they "forgot" and reached into the discharge chute. Always treat your lawn mower as if the blade is rotating. Never perform any service or try to make any adjustment, except carburetor, while the engine is running.



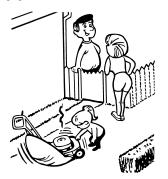
Use only accessories suited for your mower. Use of improper accessories can reduce the safety designed into both the mower and the accessory, it can even damage the unit. Read and follow the instructions which come with the accessory and the mower.

Use only original equipment or approved substitutions as service parts. If you need professional service, select a shop that is an Authorized Service Center for your brand of mower. If you plan to service the unit yourself, follow directions in the Instruction Book.



As you mow, remember children and pets are sometimes attracted to the activity. Be especially careful when trimming around shrubbery or when backing up. If at all possible, don't mow when moving backwards. It is dangerous because vision is restricted. Also, blades are designed to cut while the unit is moving forward so cutting performance is reduced when mowing in reverse.

Never leave the mower running and unattended. Shut off the engine. Put the mower in a position so that it can not roll. If the unit is self-propelled, make sure the drive control is disengaged.



When mowing, be aware of your condition and the weather conditions. After mowing a long time, you will be tired. This is the time when reactions slow down, your attention wanders; the time when you are wide open for an accident. Take a short break. If temperatures are high, take precautions to avoid becoming dehydrated. If you are angry, tired, or unable to give your full attention to mowing, if you have been consuming alcohol, medicines, or drugs, do not use your mower or any type of power equipment.

If weather conditions become worse while you are cutting, stop and finish later. Cutting grass F-050442L

in the rain is no fun and it is dangerous. Always seek shelter in an electrical storm. In extremely dry mowing conditions, your safety glasses can serve a dual purpose by protecting your eyes from dust and thrown objects, also a dust or pollen mask can be helpful.



Your mower is equipped with a number of safety features which are important to the safety of the operator and bystanders and must never be altered or removed. If a safety feature becomes inoperable, lost, or damaged, it must be repaired or replaced before the mower is used. Engine speed is a key to safe mowing and a nice looking lawn. The maximum speed of the engine on your mower has been set at the factory. Do not change the engine governor in any way.

Select the maximum engine and ground speed that is right for the terrain and the height of grass. You get the best cutting and bagging performance when using a grass catcher by operating the engine at maximum speed. Never walk fast or run just to get the job done sooner. On inclines, reduce ground speed and exercise extreme care.

It is best to mow only during daylight hours; however, if you must mow in the late afternoon or evening, make sure there is good artificial light.

Your mower will require maintenance including service and adjustments before and after use as with any machine. The frequency of the maintenance is generally based on hours of use, however, the frequency can vary because of mowing conditions. Check the Instruction Book for more detailed instructions. Proper maintenance protects your investment in the mower and helps insure that it will function safely and reliably.

Never attempt any service (with the possible exception of carburetor adjustment) with the engine running. After turning the engine off, always disconnect the spark plug wire to prevent accidental restarting while the unit is being serviced.



While mowing, if you hit a foreign object, stop the engine. Remove the spark plug wire. Carefully and thoroughly inspect the mower for damage. Make necessary repairs before restarting. If the unit starts to vibrate abnormally, stop the engine immediately and check for the cause. Vibration is generally a warning of trouble. Keep all nuts, bolts, and screws tight.

The blade is the most dangerous part of the mower and also the most important part in obtaining a nice lawn appearance. Check the blade and the blade mounting hardware frequently. Keep it tight. If the blade hits a solid object, check it thoroughly for deformation or cracks and replace if damaged. For safety,replace the blade every two years. A sharp blade reduces the work load on the engine and cuts grass more cleanly, for a better looking cut with less work. The blade is always close to the outside of the mower housing. For best trimming on side discharge mowers, cut with the left side of the housing toward the area that needs trimming.

A useful accessory for your mower is a grass catcher. There are grass catchers available for most models. For best performance and safety, be sure the grass catcher is approved for use with your mower. Assemble as directed and follow operating and safety instructions with the catcher and in the Instruction Book.

Before mounting, checking or emptying the grass catcher, always turn the engine off. Remember to check the grass catcher before each use for cracks, wear, or deterioration. Replace any part that is damaged with the manufacturer's recommended replacement part before using the grass catcher again.



Proper cutting technique is important if you want your lawn to look good. Avoid the temptation to cut grass too short. Cutting grass too short can kill the plant, cause grass to turn yellow, or make the lawn look brown and thatchy. Use the lower cutting heights in cool months when the grass is lush. Use the higher cutting heights in extremely dry periods. Cutting with a dull blade or low engine speed bruises, shreds, and can uproot some grass making the lawn look dull and brown a few days after cutting. Always put the throttle control, if F-050442L equipped, in FAST position when mowing and bagging. When bagging, slower ground speed will provide the best results.

Change the mowing pattern slightly each time you cut. If you always cut the same way, the grass will develop a "set" and clippings will accumulate more heavily in some areas more than in others causing grass to get thinner in those areas. Do not service your mower over the grass. Spilled oil and gas can kill the grass. In tall grass or very heavy grass, do not try to cut it all at once. Raise the height of cut on the first cutting and lower it for the next cutting the same day or within a few days. Another way is to cut only part of the width of the mower and adjust your ground speed (not the engine) to move more slowly so the mower can clear itself as it moves forward.



When cutting with a walk behind mower, always push the unit. Do not pull it. Pushing the unit keeps the operator behind the mower in the "operator's zone" for better control. Pushing the unit also gives you a chance to see exactly where and what you are mowing. There will be times while you are mowing that you will have to pull the mower backwards (such as when the front of the mower has come up against a wall or fence). If you must back up, make sure your feet are in the clear. Stand well back from the mower, plant your feet firmly with each step and back up being careful to look behind you. Resume normal mowing as soon as possible.

If your unit is self-propelled, remember that the drive mechanism is not designed to do all the work, but the unit can move without your help. Always keep your hands on the handle near the controls when the engine is running. Remember too that the self-propelled mechanism can be dangerous. Keep hands and feet away from belts and chains. Always turn off the engine before attempting to remove anything that becomes entangled in the self-propelled system.

Remember, your mower is a useful tool, but it can be dangerous. Follow the instructions in this Instruction Book. Use the mower properly and carefully and it will give you many hours of trouble free, accident free operations.

## STEPS TO FOLLOW BEFORE MOWING

- Be sure to dress correctly. Wear hard shoes, not sandals or tennis shoes.
- Examine the blade. A blade that is bent, cracked, or damaged must be replaced with a factory replacement blade.
- Fill the fuel tank outside. Clean off spilled fuel.
- Read and follow the Owner's Manual, the instructions with the engine, and the instructions with any attachments. Owner's Manual instructions are for your safety and the safety of others.
- Exhaust fumes are dangerous. Start the engine outside.
- Make sure all safety devices are in place and working correctly.
- Operation of the mower is only for a person that has experience.
- Wet grass can be dangerous. Let the grass dry.
- Instruct children and others to keep away from the work area.
- Never cut the grass without good light.
- Pick up loose objects. Remove them from the mowing area.

# WHILE MOWING

- Watch for fixed objects and avoid them. They can damage the mower or cause injury.
- A hot engine and muffler will cause a burn. Do not touch.
- Inclines and slopes must be carefully mowed. See the "Guide" in the back of this book to check a slope.
- Lack of daylight or good artificial light is cause to stop mowing.
- Examine the mower, the blade, and other parts for damage after hitting a foreign object or if the unit vibrates excessively.
- Do not make adjustments or repairs without stopping the engine (except for carburetor). Disconnect the spark plug wire.
- On or near roads, watch out for traffic. Direct discharge away from roads.
- When mowing, avoid areas where traction is unsure. Before and while moving backwards, look behind and down for small children.
- In heavy grass, raise the cutting height. Cut slower. Stop the engine to remove clogged grass from the mower.
- Never remove any safety related parts.
- Do not pour gasoline into a engine that is hot or running.

# **AFTER MOWING**

- Always let the mower cool before storing in an enclosed area.
- Foreign material on the mower is dangerous. Clean off grass, leaves, grease and oil before storing.
- Tighten all loose nuts, bolts and screws before you use the unit.
- Empty and clean any grass catcher or other accessory.
- Remove the key or disconnect the spark plug wire to prevent unauthorized use.
- Make sure the mower is not kept near a source of ignition. Gas fumes can cause an explosion.
- Only original parts or factory approved substitutes can be used to service the mower.
- When storing the mower for an extended period, remove the fuel from the fuel tank.
- Instruct children to leave the mower alone. It is not a toy.
- Never keep gasoline near a source of ignition. Always use an approved container. Keep gasoline away from children.
- Lubricate according to the Instruction Book. See "Lubrication".

# IMPORTANT--Read the Instruction Book. Keep this book for future use and reference.



WARNING: Look for this symbol to point out important safety precautions. It means: "Attention! Become Alert! Your Safety Is Involved."

# PREPARATION



WARNING: Before doing any assembly or maintenance to the mower, remove the wire from the spark plug.

NOTE: In this instruction book, left and right describe the location of a part with the operator standing behind the handle.

## UNPACKING INSTRUCTIONS

The mower was fully assembled at the factory. When the mower was put in the carton, the handle was put in the storage position. To put the handle in the operating position, follow the steps below.

#### Handle

- 1. Remove the mower from the carton.
- 2. Remove all packing material from the mower and the handle.

NOTE: The height of the handle can be set at either a HIGH or LOW position. See "How To Adjust The Handle Height".

- 3. Raise the **lower handle**. Make sure the **lower handle** is between the **locking tabs** (Figure 1). Tighten the **wingnuts**.
- 4. Put the **upper handle** in the operating (upright) position. Tighten the **wingnuts**.

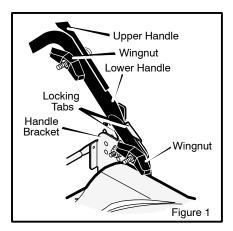
CAUTION: Be careful when you fold or raise the handle. Do not damage the cables. A cable that is bent will not work correctly. Before you use the unit, replace a bent or damaged cable.

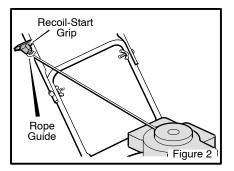
 Hold the engine stop lever against the handle. Slowly pull the recoil-start grip. To attach the **recoil-start grip** to the **rope guide**, twist the rope through the **rope guide** mounted on the right side of the handle (Figure 2).

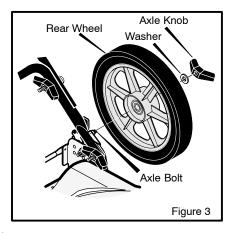
# Rear Wheels (Hi-Wheel Models With Axle Knobs)

NOTE: If wheels are already factory mounted, go to the next section.

 Remove the washers and axle knobs from the axle bolts (Figure 3).
F-0504421  Mount the rear wheels onto the axle bolts and fasten with the washers and axle knobs.



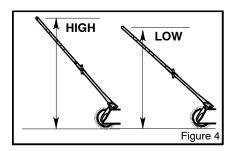




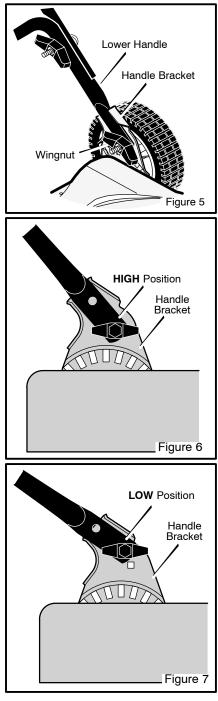
# PREPARATION

## HOW TO ADJUST THE HANDLE HEIGHT

The **handle bracket** has two assembly positions. A **HIGH** and a **LOW** position (Figure 4). The **HIGH** position will raise the handle approximately four inches.



- 1. Remove the **wingnuts** and **bolts** from the right and left **handle brackets** (Figure 5).
- 2. To raise the handle, mount the **lower handle** in the **HIGH** position shown in Figure 6.
- 3. To lower the handle, mount the **lower han**dle in the LOW position shown in Figure 7.
- 4. Attach the **lower handle** to the **handle brackets** with the **bolts** and **wingnuts**. (Figure 5).



# PREPARATION

## ELECTRIC START MODELS

When the mower was shipped from the factory, the battery was not fully charged. Before the first use, the battery must be charged for 16 hours. See "How To Charge The Battery" in the Maintenance section.

#### HOW TO PREPARE THE ENGINE

ENGINE DOES NOT CONTAIN OIL OR GASOLINE

Fill the engine with the proper amount of oil. See the engine manufacturer's instructions for the type of gasoline and oil to use. Before you use the unit, read the information on safety, operation, maintenance, and storage.

WARNING: Follow the engine manufacturer's instructions for the type of gasoline and oil to use. Always use a safety gasoline container. Do not smoke when adding gasoline to the engine. When inside an enclosure, do not fill with gasoline. Before you add gasoline, stop the engine. Let the engine cool for several minutes.

NOTE: The operation of a new engine will sometimes result in a slight amount of smoke. This smoke is caused by paint or oil on or around the muffler. This is normal and only expected during initial operation. IMPORTANT: This unit is equipped with an internal combustion engine and must not be used on or near any unimproved forestcovered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it must 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. See an Authorized Service Center for a spark arrester for the muffler.

IMPORTANT: Actual sustained horsepower will likely be lower due to operating limitations and environmental factory.

#### FINAL ASSEMBLY

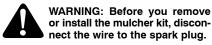
Before you use the mower, check the assembly of the wheels, the handle, and the controls. Make sure all the fasteners are tight. Make sure the throttle control and the engine stop lever work correctly.

If mower is equipped with height adjusters,

make sure the height function properly. Before starting the engine, make sure each height adjuster is set at the desired height. See "How To Adjust The Height Of Cut" in the Maintenance sections.

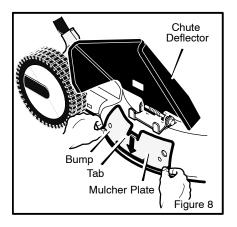
## PREPARATION MODELS WITH OPTIONAL MULCHER PLATE

## MULCHER PLATE REMOVAL AND INSTALLATION



On some models the mulcher kit is installed at the factory. To convert from a mulcher to a side discharge, remove the mulcher plate.

A side discharge mower can be converted to a mulching mower by installing the mulcher plate as follows:



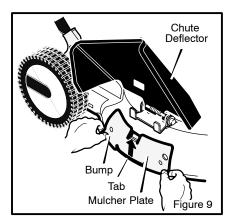
1. Raise the chute deflector (Figure 8).

MULCHING TIPS

Mulching finely cuts the grass so that the grass can be easily recycled. Because the nutrients are returned to the soil, the lawn will need less fertilizer. To correctly mulch the lawn, follow the tips below.

- The grass must be dry. If the grass is wet, it will be difficult to cut and cause heavy clumps of grass.
- The grass must not be too tall. The maximum height to effectively cut is 4 1/2 inches. Set the height adjusters so that only the top third of the grass is cut.
- If the grass is more than 4 1/2 inches high, two mowings will be necessary. For the first mowing, set the height adjusters in the highest position. Then, lower the height adjusters for the second mowing.

- Align the mulcher plate with the side discharge opening. Make sure that the two alignment bumps are inside of the opening.
- Mount the tab on the top of the mulcher plate to the inside of the mower housing.
- Mount the tab on the bottom of the mulcher plate to the inside of the mower housing (Figure 9).



- 5. Lower the chute deflector.
- 6. Attach the wire to the spark plug.
- Keep a sharp edge on the blade. A blade that is not sharp will cause the ends of the grass to become brown.
- Clean the underside of the mower housing. Grass and other debris can keep the mower from working correctly.

# If the quality of cut is marginal, try the following:

- Set the height adjusters at a higher cutting height.
- Cut the grass more frequently.
- Operate the mower at a slower ground speed.
- Overlap the cutting swaths instead of cutting a full swath with each pass.
- Mow across the marginal areas a second time.

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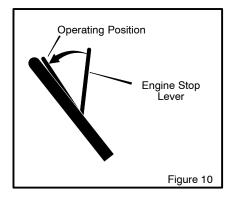
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## **OPERATION**

## ENGINE STOP LEVER

Release the **engine stop lever** and the engine and the blade will automatically stop. To run the engine, hold the **engine stop lever** in the **Operating position** (Figure 11).

Before you start the engine, operate the **engine stop lever** several times. Make sure the cable moves easily.



## FRONT WHEEL DRIVE SYSTEM

The mower has a front wheel drive system. Operate the drive system as follows.

- 1. Hold the engine stop lever in the Operating Position (Figure 10 and Figure 11).
- Push the drive lever completely forward. When the drive lever clicks, release the drive lever. The drive system is now engaged.

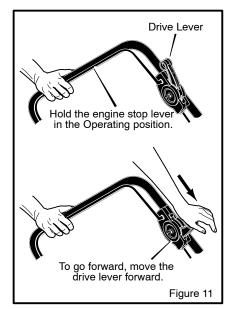
NOTE: To stop the engine, release the engine stop lever.

- 3. To disengage the drive system and stop the engine, completely release the **engine stop lever**.
- To disengage only the drive system, release the engine stop lever approximately two inches. The drive system will disengage but the engine will continue to run.

NOTE: When the drive system is disengaged on a new unit, it is possible for the front wheels to rotate if lifted off the ground. This is normal and will stop after one or two hours of operation.  $F_{-0.504421}$ 



WARNING: For safe operation, the drive system must immediately disengage when the drive lever is released. If the drive system does not disengage correctly, do not operate the mower until the drive system is adjusted or repaired by an authorized service center.



## HOW TO STOP THE ENGINE

To stop the engine, release the **engine stop lever**. Disconnect the wire from the spark plug to prevent the engine from starting. On models equipped with an electric start engine, remove the key from the key switch. Keep the key away from children.

If the engine will not stop, hold a screwdriver against the spark plug and against the engine cooling fins. The spark will go to ground and the engine will stop. Before you start the engine, check the engine stop cable. Make sure the engine stop cable is assembled correctly. Before you operate the unit, replace a bent or damaged engine stop cable.

## **OPERATION**

## HOW TO START ENGINE



WARNING: The blade will rotate when the engine runs.

IMPORTANT: Before you start the engine, operate the engine stop lever several times. Make sure the engine stop cable moves freely.

NOTE: The engine design does not include a throttle control or an engine speed adjustment. The engine is set at the best speed for cutting grass, bagging grass, and for extended engine life.

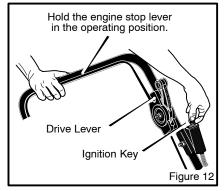
- 1. Check the oil.
- Fill the fuel tank with regular unleaded gasoline. Make sure the gasoline is clean. Leaded gasoline will increase deposits and shorten the life of the valves.

NOTE: Do not use gasohol or methanol. Do not use premium unleaded gasoline.



WARNING: Always use a safety gasoline container. Do not smoke when adding gasoline to the fuel tank. When inside an enclosure, do not add gasoline. Before you add gasoline, stop the engine and let the engine cool for several minutes.

- 3. Make sure the spark plug wire is connected to the spark plug.
- Electric Start Models: Make sure the battery is connected to the wiring harness.
- 5. Make sure the **drive lever** is in the DISEN-GAGED position (Figure 12).

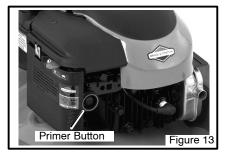


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WARNING: To prevent an accident, make sure the drive lever is in the DISENGAGED position. When the drive lever is in the EN-GAGED position, do not start the engine.

 Some models have a primer button on the front or side of the engine (Figure 13). Every time you push the primer button, wait two seconds. For the number of times required to push the primer button, see the engine manufacturer's instructions.



NOTE: Do not use the primer button to start a warm engine.

- Stand behind the mower. Hold the engine stop lever in the OPERATING position (Figure 12).
- Electric Start Models: Turn the ignition key to the START position. Use short starting cycles (15 seconds per minute). When the engine starts, release the ignition key. If the engine will not turn over, charge the battery. See "How To Charge The Battery".
- Recoil-Start Models: Make sure the recoil-start rope is not obstructed or caught between the upper and lower handles. Rapidly pull the recoil-start grip. Slowly return the recoil-start grip.
- 10. If the engine does not start in 5 or 6 tries, See the "Problem and Repair" Instructions.

#### HOW TO OPERATE THE MOWER



WARNING: Check the condition of the grass bag for wear or deterioration. If worn or damaged, replace the parts only with approved factory replacement parts. For replacement parts, see the parts list in this book.

To completely fill the grass bag, operate the engine with the throttle control in the FAST position.

## ELECTRIC START MODELS

#### HOW TO CHARGE THE BATTERY WARNING: The battery contains



sulfuric acid which is harmful to the skin, eyes and clothing. If acid gets on the body or clothing, wash with water. Do not attempt to open the battery. If the battery has a crack, replace the battery. Do not burn a damaged or old battery or an explosion can result.



WARNING: When you charge the battery, do not smoke. Keep the battery away from any sparks. The fumes from the battery acid can cause an explosion.

The battery is in the battery case mounted on the handle. To charge the battery, remove the battery case from the handle.

IMPORTANT: Make sure to use the battery charger supplied with the mower. The use of any other battery charger will damage the battery.

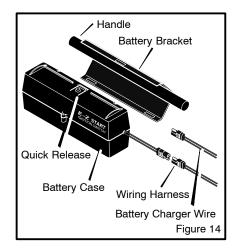
- 1. Disconnect the **wiring harness** from the battery (Figure 14).
- 2. Push the **quick release** on top of the **battery case**. Remove the **battery case** and battery from the **handle**.
- 3. Attach the **battery charger wire** to the battery. Connect the battery charger to an electrical outlet.

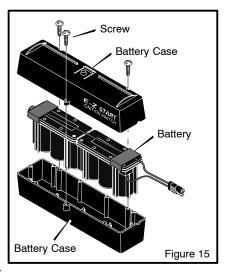
## HOW TO REMOVE THE BATTERY

If the engine will not turn over or turns over slowly when the key is turned on, charge the battery. See "How To Charge The Battery". If the battery will not charge fully and will not start the engine, replace the battery as follows.

- Disconnect the wiring harness from the battery (Figure 14).
- 2. Push the **quick release** on top of the **battery case**. Remove the **battery case** and battery from the **handle**.
- 3. To open the **battery case**, remove the three screws. Remove the **battery** from the **battery case** (Figure 15).
- 4. Replace the battery with an authorized factory replacement battery.
- 5. Charge the new battery for 16 hours. See "How To Charge The Battery".
- 6. To install the battery, reverse the above steps.
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- 4. Charge the battery for 16 hours.
- 5. Disconnect the battery charger from the electrical outlet and from the battery.
- Align the two tabs on the bottom of the battery case with the two holes in the battery bracket. Rotate the battery case until the quick release locks the battery in the OP-ERATING position.
- Connect the wiring harness to the battery. If the battery will not be used for a long period of time or during storage, do not connect the wiring harness to the battery.





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## ENGINE MAINTENANCE

Use the following maintenance section to keep your unit in good operating condition. All the maintenance information for the engine is in the "Engine Instruction Book". Before you start the engine, read this book.

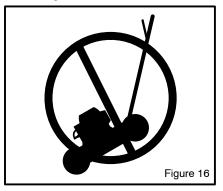


WARNING: Before you make an inspection, adjustment (except carburetor), or repair, stop the engine and disconnect the wire from the spark plug.

#### ENGINE TIPPING

When you service the engine, inspect the blade, or clean the underside of the mower housing; make sure to always tip the engine with the spark plug up (see Figure 16). Transporting or tipping the engine with the spark plug down will cause:

- Hard starting.
- Engine smoking.
- Spark plug fouling.
  - Oil or gas saturation of the air filter.



#### HOW TO CLEAN THE MOWER HOUSING



WARNING: The blade will rotate when the engine runs. Before you clean the mower housing, stop the engine and disconnect the wire from the spark plug.

Grass and other debris can keep the mower from working correctly. After you mow, clean the mower housing as follows.

- 1. Stop the engine.
- 2. Disconnect the wire from the spark plug.
- Clean dirt and debris from the top and the bottom of the mower housing. Clean with soap and water. Wipe off excess water before storage.

## LUBRICATION

- 1. For maximum performance, lubricate the wheels and all pivot points with engine oil every 25 hours.
- 2. To lubricate the engine, refer to the "Engine Instruction Book".

NOTE: Do not lubricate the engine stop cable. Lubricants will damage the cable and prevent the cable from moving freely. Replace the cable if bent or damaged. F-050442L

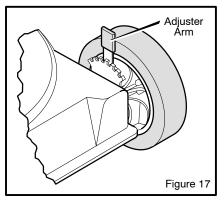
## HOW TO ADJUST THE HEIGHT OF CUT



WARNING: The blade will rotate when the engine runs. Before you change the height of cut, stop the engine and disconnect the wire from the spark plug.

To change the height of cut, move the position of the **adjuster arm** at each wheel (Figure 17). Make sure each **adjuster arm** is in the same position so that the mower will cut level.

- 1. Disengage the adjuster arm.
- Move the adjuster arm to another position.



## HOW TO REMOVE THE DRIVE BELT

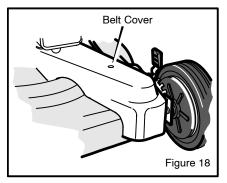


#### WARNING: Before you remove the belt, disconnect the wire from the spark plug.

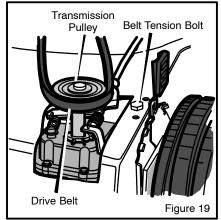
- 1. Remove the screw that secures the belt cover. Remove the **belt cover** (Figure 18).
- 2. To remove the drive belt, tip the mower up. See "Engine Tipping" in the Maintenance section.
- 3. Loosen the belt tension bolt (Figure 19).
- 4. Remove the front of the **drive belt** from the **transmission pulley**.
- 5. To remove the rear of the **drive belt**, slip the **drive belt** over the end of the **blade** (Figure 20).

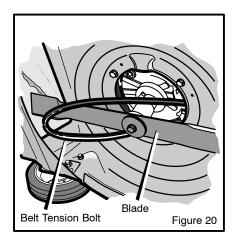
NOTE: Make sure you replace the drive belt only with a replacement belt from the factory.

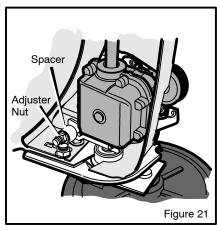
- 6. To assemble the **drive belt**, reverse the above steps.
- 7. Set the belt tension.
  - Tighten the adjuster nut until the nut touches the spacer (Figure 21). Try to turn the spacer. When the adjuster nut touches the spacer, the spacer will not turn.
  - Then, loosen the adjuster nut only enough to allow the spacer to turn. The tension on the drive belt is now correct.
- 8. Install the **belt cover** (Figure 18).
- Before you begin to mow, make sure the drive system will correctly disengage and that the mower will stop. If the drive system will not disengage, take the mower to an authorized service center before you operate the mower.



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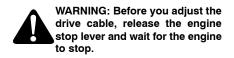




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## MAINTENANCE HOW TO ADJUST THE DRIVE CABLE

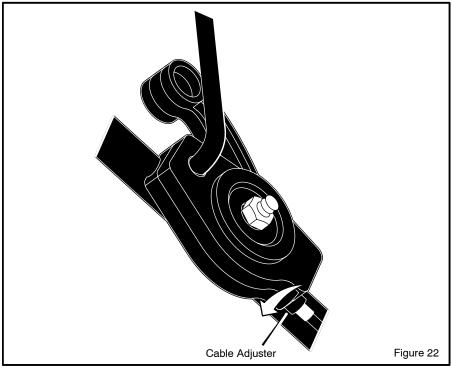


If the drive system does not engage and disengage correctly, check the handle for correct assembly. Make sure that all parts are in good condition, not broken or bent, and that all fasteners are tight.

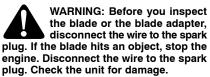
Worn parts and cable stretch will change the performance of the drive system. When you mow in high or thick grass or on hills, the drive system can slip. If the drive system is slipping, adjust as follows or take the mower to an authorized service center.

IMPORTANT: Before you start the engine, operate the engine stop lever several times. Make sure the engine stop cable moves freely. NOTE: The engine design does not include a throttle control or an engine speed adjustment. The engine is set at the best speed for cutting grass, bagging grass, and for extended engine life.

- 1. If the drive system is slipping, turn the **cable adjuster** one turn in the direction shown in Figure 22. Test the drive system and check for slippage.
- 2. If the drive system still slips, turn the **cable adjuster** one more turn to shorten the cable. Again, test the drive system.
- 3. Repeat the adjustment and test until the drive system does not slip.
- 4. Before you begin to mow, make sure the drive system will correctly disengage and that the mower will stop. If the drive system will not disengage, take the mower to an authorized service center before you operate the mower.



## **BLADE SERVICE**

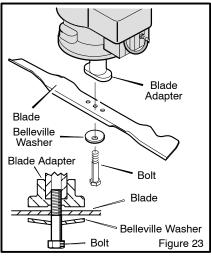


Frequently check the blade for wear or damage such as cracks. Frequently check the bolt that holds the blade. Keep the bolt tight. If the blade hits an object, stop the engine. Disconnect the wire to the spark plug. Check the blade adapter for damage. Check for a bent or damaged blade, a badly worn blade, or other damage. Before you operate the unit, damaged parts must be replaced with factory replacement parts. For safety, replace the blade every two years. Keep a sharp edge on the blade. A blade that is not sharp will cause the ends of the grass to become brown. Remove the blade as follows.

## HOW TO REMOVE THE BLADE

WARNING: Before you remove the blade, disconnect the wire to the spark plug. The blade has sharp edges. When you hold the blade, use gloves or cloth material to protect your hands.

- 1. Drain the fuel tank.
- Lift the side of the mower that has the 2. muffler or spark plug.
- Use a piece of wood to keep the blade 3. from rotating.
- 4. Remove the **bolt** that holds the **blade** with a 9/16" (14mm) wrench.



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- 5. Check the blade according to the "Blade Service" instructions. Replace a badly worn or damaged blade with a factory replacement blade.
- Mount the blade with the curved edges toward the housing. If the blade is upside down, the blade will not cut correctly and can cause an accident.
- 7. Fasten the **blade** with the original washer and **bolt**. Make sure the outside rim of the Belleville washer is toward the blade (Figure 23).
- Tighten the **bolt** that holds the **blade** to a 8. torque of 30 foot pounds.



WARNING: Always keep the bolt that holds the blade tight. A loose bolt or blade can cause an accident.

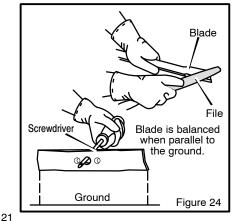
## HOW TO SHARPEN THE BLADE



WARNING: Vibration is the result if the blade is not correctly balanced. A blade that is damaged with cracks can break and cause an accident.

- Sharpen the blade two times a year or ev-1. ery 25 hours.
- If the blade is on the unit, do not sharpen. 2. Remove the blade according to the instructions in "How To Remove The Blade".
- Clean the blade with a brush, soap, and 3. water. Check the blade. Look for cracks. nicks, or other damage. Replace a blade that is badly worn, bent, or damaged with a factory replacement blade.
- Sharpen the blade with a file. Make sure 4 you keep the original beveled cutting edge (Figure 24).

## (Continued following page)



- 5. Make sure the **blade** is balanced. Use a screwdriver and hold the blade parallel to the ground as shown. A blade that is balanced will stay parallel to the ground. If the blade is not balanced, the heavy end will rotate toward the ground. Sharpen the heavy end until the blade is balanced.
- A new blade will cut better than a badly worn blade. Every two years replace the old blade with a factory replacement blade.

## CHECK THE LEVEL OF CUT

Test the unit in a small area. If the height of cut is not level or if the cut grass is not discharged, the cause can be: (1) the blade is bent or damaged, (2) the blade is not sharp, (3) a worn blade, (4) or a broken **blade adapter**. Before you use the unit, correct the problem.

## FOLDING HANDLE STORAGE

CAUTION: Be careful when you fold or raise the handle. Do not damage the cables. A cable that is bent will not work correctly. Before you use the unit, replace a bent or damaged cable.

#### How To Fold The Handle

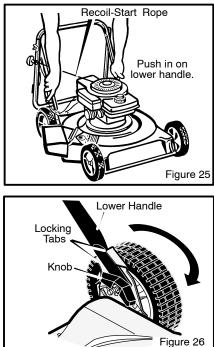
- Loosen the knobs that hold the upper part of the handle to the lower part of the handle. As you fold the handle, make sure the cables are not around the loose fasteners and do not become damaged. Hold the engine stop lever in the Operating Position (against the handle). Rotate the upper part of the handle toward the back of the unit (Figure 25).
- Loosen the knobs on the lower handle (Figure 26). Push in on the ends of the lower handle. Move the ends of the lower handle past the locking tabs.
- Rotate the handle forward over the engine. Make sure the cables are not damaged.

## HOW TO PREPARE THE MOWER FOR STORAGE

WARNING: Do not remove gasoline while inside a building, near a fire, or while you smoke. Gasoline fumes can cause an explosion or a fire.

- 1. Drain the fuel tank.
- 2. Let the engine run until it is out of gasoline.
- 3. Drain the oil from the warm engine. Fill the engine crankcase with new oil.

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## How To Raise The Handle

- 1. Pull the handle back until the ends of the **lower handle** lock into position. Tighten the **knobs.**
- Hold the engine stop lever in the Operating Position (against the handle). Lift the upper part of the handle into the operator's position. Tighten the fasteners that hold the handle.
- 3. Make sure the **recoil-start rope** is on the outside of the handle and is not caught between the upper and lower handle.
- Remove the spark plug from the cylinder. Pour one ounce of oil into the cylinder. Slowly pull the recoil-start grip so that the oil will protect the cylinder. Install a new spark plug in the cylinder.
- 5. Clean the dirt and debris from the cylinder cooling fins and the engine housing.
- 6. Clean the bottom of the mower housing.
- 7. Completely clean the mower to protect the paint.
- 8. Put the unit in a building that has good ventilation.

# **TROUBLE SHOOTING CHART**

## The Engine will not start.

- 1. Make sure the fuel tank is filled with clean gasoline. Do not use old gasoline.
- 2. On a cold engine, push the primer button (optional on some models). For the number of times required to push the primer button, see the engine manufacturer's instructions.
- 3. Make sure the wire for the spark plug is connected to the spark plug.
- 4. Adjust the Carburetor. See the "Engine Instruction Book".
- There is too much gasoline in the engine cylinder. Remove and dry the spark plug. Pull the recoil-start grip several times. Install the spark plug. Connect the wire to the spark plug. Start the engine.
- 6. The engine is difficult to start in heavy or high grass. Move the mower to a clean dry surface.
- 7. Make sure the engine stop lever is in the operating position.
- 8. Make sure the fuel valve is in the ON position. See the "Engine Instruction Book".
- 9. On Electric Start models, charge the battery.

#### The Engine will not stop.

- 1. Release the engine stop lever.
- 2. Check the engine stop cable. Replace the cable if bent or damaged.

#### The Engine performance is bad.

- 1. Check the height of cut settings. Raise the height of cut if the grass is high.
- 2. Check the bottom of the blade housing. Clean the blade housing of grass and other debris.
- 3. Check the wire to the spark plug. Make sure the wire is connected.
- 4. Clean the engine cooling fins of grass and other debris.
- 5. Check the carburetor adjustments. See the "Engine Instruction Book".
- 6. Check the spark plug gap. Set the spark plug gap at 0.030".
- 7. Check the amount of oil in the engine. Fill with oil if necessary.
- 8. Check the engine air cleaner. See the "Engine Instruction Book".
- 9. The gasoline is bad. Drain and clean the fuel tank. Fill the fuel tank with clean gasoline.

#### **Excessive Vibration.**

- 1. Remove the blade. Check the blade and balance if necessary. See the blade maintenance instructions.
- Check for a bent or broken blade. A DAMAGED BLADE IS DANGEROUS AND MUST BE REPLACED.
- 3. Check the blade adapter. REPLACE A BROKEN BLADE ADAPTER.
- 4. If the vibration continues, take the mower to an Authorized Service Center.

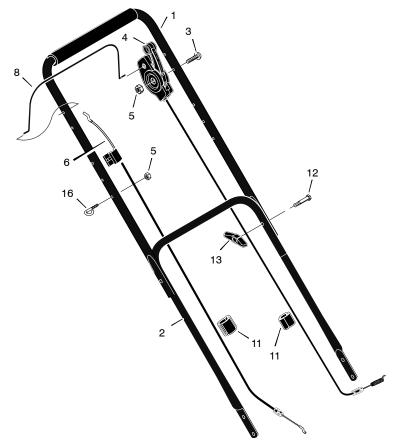
#### The grass will not discharge correctly.

- 1. Clean the bottom of the mower housing.
- Check for a badly worn blade. Remove and sharpen the blade. For safety, replace the blade every two years with a factory replacement blade.

#### The grass is not cut even.

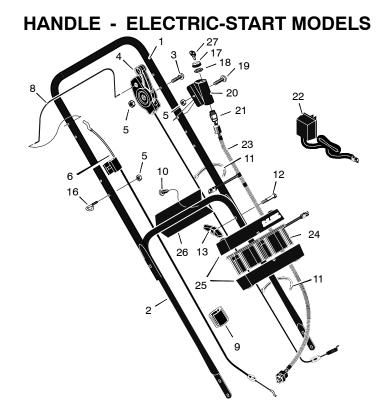
- 1. Check the height adjustment at each wheel. The height adjustment must be the same for each wheel.
- 2. Make sure the blade is sharp.
- Check for a bent or broken blade. A DAMAGED BLADE IS DANGEROUS AND MUST BE REPLACED.
- 4. Check for a broken blade adapter. REPLACE A BROKEN BLADE ADAPTER. F-050442L 23

# HANDLE - RECOIL-START MODELS



KEY			KEY		
NO.	DESCRIPTION	PART NO.	NO.	DESCRIPTION	PART NO.
1	Handle, Upper (Black) Handle, Upper (Gray)	1101557E701 1101557E724	6	Cable, Stop * Cable, Stop #	1101365 1101366
2	2 Handle, Lower (Black) Handle, Lower (Gray)	1102089E701 1102089E724		Cable, Stop +	1101365
			8	Lever, Stop	1101076E701
3	Bolt	025x14	11	Fastener, Cable	1101353
4	Control, Drive	1101670	12	Bolt	002x77
5	Locknut	15x116	13	Knob	071294
			16	Guide, Rope	071530

- \* Used on Briggs & Stratton Quantium engines.
- # Used on Tecumseh engines.
- + Used on Briggs & Stratton Classic, Sprint & Quattro, Q-Style and QS-Style engines.

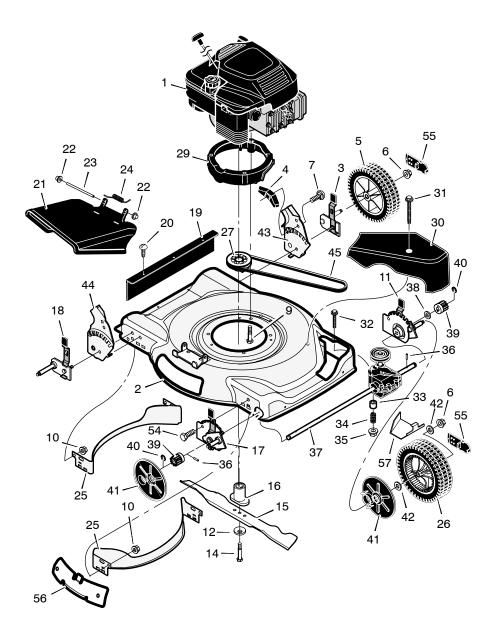


KEY			KEY		
NO.	DESCRIPTION	PART NO.	NO.	DESCRIPTION	PART NO.
1	Handle, Upper (Black)	1101557E701	12	Bolt	002x77
	Handle, Upper (Gray)	1101557E724	13	Knob	071294
2	Handle, Lower (Black)	1102090E701	16	Guide, Rope	071530
	Handle, Lower (Gray)	1102090E724	17	Сар	091488
3	Bolt	025x14	18	Nut	091489
4	Control, Drive	1101670	19	Bolt	3x136
5	Locknut	15x116	20	Cover, Ignition	671916
6	Cable, Stop *	1101365	21	Switch Ignition & Key	776011
	Cable, Stop #	1101366	22	Charger, Battery	671992
	Cable, Stop +	1101365	23	Harness, Wiring	776012
8	Lever, Stop	1101076E701	24	Battery	776014
9	Fastener, Cable	1101353	25	Case, Battery	776013
10	Screw	26x220	26	Bracket, Battery	671959
11	Tie, Cable	071372	20	Key, Ignition	672220
			<u> </u>	rtey, igiliuoli	012220

\* Used on Briggs & Stratton Quantium engines.

- # Used on Tecumseh engines..
- + Used on Briggs & Stratton Classic, Sprint & Quattro, Q-Style and QS-Style engines.

# **MODELS WITH STANDARD WHEELS**



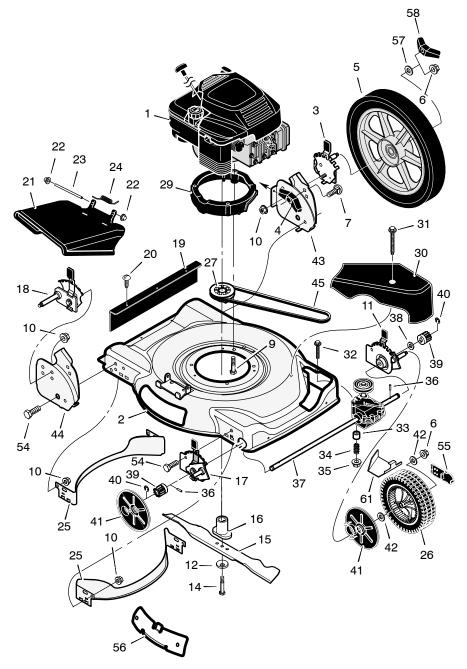
# **MODELS WITH STANDARD WHEELS**

KEY NO.	DESCRIPTION	PART NO.	KEY NO.	DESCRIPTION	PART NO.
1	Engine	*	28	Pin, Spring	032x64
2	Housing	7501039	29	Base, Engine (Black)	1101786
3	Height Adjuster, Left Rear	672641	00	Base, Engine (Gray)	1101787
4	Knob	071495	30	Cover, Belt (Black) Cover, Belt (Gray)	1101830 1101831
5	Wheel and Tire, Rear #		31	Screw	26x313
6	Locknut, Flange	015x84	32	Bolt	01x118
7	Bolt, Carriage	002x81	33	Spacer	043844
9	Bolt, Engine	025x11	34	Spring	164x27
10	Nut	015x68	35	Nut	015x88
11	Height Adjuster, Left Front	672643	36	Pin, Drive	043629
12	Washer, Belleville	1101989	37	Transmission	1101571
14	Bolt, Hex	01x148	38	Washer	17x186
15	Blade,	1101823E701	39	Gear, Pinion	071792
16	Adapter, Blade	1101968	40	E-Ring	011x16
17	Height, Adjuster, Right Frt.	672642	41	Cover, Dust	071780
18 19	Height, Adjuster, Right Rr. Guard, Rear	672640 672738	42	Washer	17x169
20	Screw	26x245	43	Bracket, Left Handle	1101303E700
20	Deflector, Chute	672421	44	Bracket, Right Handle	1101302E700
21	Push-On Cap	072421 028x42	45	Belt, Briggs & Stratton	37x123
22	Pin, Pivot	215x11 Z	<b>F</b> 4	Belt, Tecumseh	001.05
23 24	,	0166x5	54	Bolt	001x85
	Spring Baffle		55	Hub Cap	043615
25 00		672744E701	56	Plate, Mulch - Optional	672422 Z
26	Wheel and Tire, Drive #		57	Cover, Transmission	1101961
27	Pulley	1101653	-	Book, Instruction	F-050442L

\* Parts are available from an Authorized Engine Service Center. See "Engines, Gasoline" or "Gasoline Engines" in the yellow pages of the telephone directory.

# See the "Wheel And Tire Parts List" page.

## **MODELS WITH 14" REAR WHEELS**



F-050442L

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# **MODELS WITH 14" REAR WHEELS**

KEY NO.	DESCRIPTION	PART NO.	KEY NO.	DESCRIPTION	PART NO.
1	Engine	*	29	Base, Engine (Black)	1101786
2	Housing	7501038		Base, Engine (Gray)	1101787
3	Height Adjuster, Left Rear	1102107	30	Cover, Belt (Black) Cover, Belt (Gray)	1101830 1101831
4	Knob	071495	31	Screw	26x313
5	Wheel and Tire, Rear #		32	Bolt	01x118
6	Locknut, Flange	015x84	33	Spacer	043844
7	Bolt, Carriage	002x81	34	Spring	164x27
9	Bolt, Engine	025x11	35	Nut	015x88
10	Nut	015x68	36	Pin, Drive	043629
11	Height Adjuster, Left Front	672643	37	Transmission	1101571
12	Washer, Belleville	1101989	38	Washer	17x186
14	Bolt, Hex	01x148	39	Gear, Pinion	071792
15	Blade	1101823E701	40	E-Ring	011x16
16	Adapter, Blade	1101968	41	Cover, Dust	071780
17	Height, Adjuster, Right Frt.	672642	42	Washer	17x169
18	Height, Adjuster, Right Rr.	1102106	43	Bracket, Left Handle	1102157E700
19 00	Guard, Rear	672738	44	Bracket, Right Handle	1102158E700
20 21	Screw	26x245	45	Belt, Briggs & Stratton	37x123
	Deflector, Chute	672421		Belt, Tecumseh	
22	Push-On Cap	028x42	54	Bolt	001x85
23	Pin, Pivot	215x11 Z	55	Hub Cap	043615
24	Spring	0166x5	56	Plate, Mulch - Optional	672422 Z
25	Baffle	672744E701	57	Washer	017x67 Z
26	Wheel and Tire, Drive #		58	Knob, Axle	672449
27	Pulley	1101653	61	Cover, Transmission	1101961
28	Pin, Spring	032x64	-	Book, Instruction	F-050442L

\* Parts are available from an Authorized Engine Service Center. See "Engines, Gasoline" or "Gasoline Engines" in the yellow pages of the telephone directory.

# See the "Wheel And Tire Parts List" page.

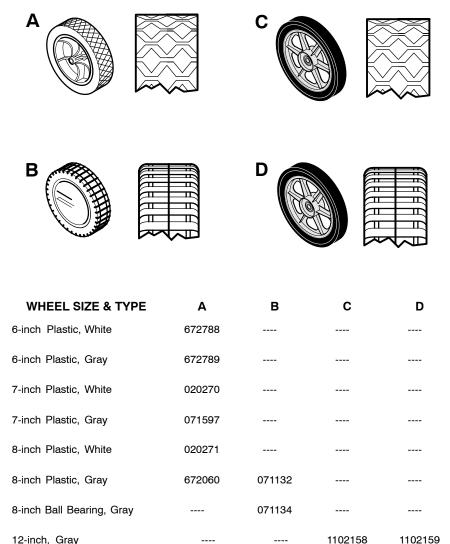
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# WHEELS AND TIRES

Look at the illustrations. Select the wheel and the tire you want and order from the following chart.

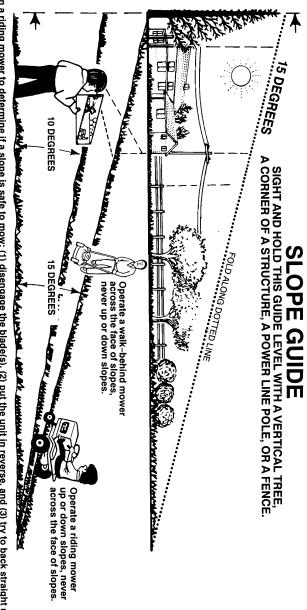


12-inch, Gray

F-050442L

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slope. If you can back up the slope, it is generally safe to mow. However, if you do not feel safe, or if you are not completely sure, use this guide and do not mow a slope that is greater than 15 degrees. If the riding mower is used with a pull-behind or rear mounted attachment, do not operate the unit on a slope that is greater than 10 degrees. On a riding mower to determine if a slope is safe to mow: (1) disengage the blade(s), (2) put the unit in reverse, and (3) try to back straight up the

A 15 degree slope is a hill that increases in height at approximately 2.5 feet in 10 feet. A 10 degree slope is a hill that increases in height at approximately 1.7 feet in 10 feet.



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slopes. Operate a riding mower up or down slopes, never across the face of slopes. Operate a walk-behind mower across the face of slopes, never up or down slopes. Use extra care when operating on or near slopes and obstructions Use extreme care at all times, and avoid sudden turns or maneuvers. Follow other instructions in this manual for safety in mowing on

. . • . . . . . . . . . . CUT HERE TO USE SLOPE GUIDE . . . . . . . . . . . . . . .

# HOW TO ORDER REPAIR PARTS

Only use a factory repair part. Repair parts, except for the engine or the transmission, are available from the store where the unit was purchased, a service shop recommended by the store, or an authorized service shop found in the yellow pages of the telephone directory. If you cannot get a repair part or service as described above, call or write to the Central Parts Distributor shown below. When you order, include the following information: (1) Complete Model Number (see nameplate), (2) Date of Manufacture, (3) Complete Part Number, (4) Description, (5) Quantity.

Repair parts for the engine or the transmission are available from the manufacturer's authorized service center found in the yellow pages of the telephone directory. See the individual engine or transmission warranties.

#### MURRAY, INC. LAWN MOWER CENTRAL PARTS DISTRIBUTORS

#### BILLIOU'S, INC.

1343 South Main St. Porterville, CA 93257 (559)784-4102 1-877-245-5468 FAX 1-800-266-7337 www.billious.com *Arizona, California, Hawaii, Nevada* 

#### **BROWN & WISER, INC.**

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#### CPT CANADA POWER TECHNOLOGY LIMITED

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161 Watline Avenue Mississauga, Ontario L4Z-1P2 (905)890-6900 1-800-861-9559

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101-10411-178 Street Edmonton, Alberta T5S 1R5 (780)453-5791 1-800-861-9559

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3641 Interchange Road Columbus, OH 43204 1-800-848-8946 FAX 1-800-626-4735 Alabama, Connecticut, Delaware, District of Columbia. Florida. Georgia, Illinois, Indiana, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan (except upper Peninsula), Mississippi, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina. Tennessee. Vermont, Virgina, West Virginia

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