

TABLE OF CONTENTS

WARRANTY	2
RESPONSIBILITY OF THE OWNER	3
SAFETY RULES	3
INTERNATIONAL PICTORIALS	9
ASSEMBLY	10
PARTS BAG - CONTENTS	10
HOW TO INSTALL THE SEAT	11
HOW TO ASSEMBLE THE STEERING WHEEL	11
MAINTENANCE FREE BATTERY	12
HOW TO PREPARE THE ENGINE	13
CHECK THE LEVEL OF THE MOWER HOUSING	13
CHECK THE TIRES	13
OPERATION	14
LOCATION OF CONTROLS	14
ATTACHMENTS	15
HOW TO USE THE THROTTLE / CHOKE CONTROL	15
HOW TO USE THE BLADE ROTATION CONTROL	15
HOW TO USE THE SHIFT LEVER	16
HOW TO SET THE PARKING BRAKE	17
HOW TO CHANGE THE CUTTING HEIGHT	17
HOW TO STOP THE UNIT	17
HOW TO TRANSPORT THE UNIT	17
HOW TO INSTALL THE SIDE DISCHARGE ATTACHMENT	18
BEFORE STARTING THE ENGINE	19
HOW TO START THE ENGINE	19
HOW TO OPERATE WITH THE MOWER HOUSING	20
HOW TO OPERATE THE UNIT ON HILLS	20
OPERATING TIPS	21
MOWING AND BAGGING TIPS	21
MAINTENANCE	·
MAINTENANCE CHART	
HOW TO CHECK THE MUFFLER	
HOW TO REMOVE AND INSTALL THE BLADE	
HOW TO SHARPEN THE BLADE	
HOW TO CHECK THE BLADE ROTATION CONTROL	
HOW TO CHECK AND ADJUST THE DRIVE BRAKE	
HOW TO CHECK AND ADJUST THE CLUTCH	
HOW TO ADJUST THE SHIFT LEVER	· · · · · · · · · · · · · · · · · · ·
MAINTENANCE FREE BATTERY	26
HOW TO CHARGE THE BATTERY	26
WHERE TO LUBRICATE	27
HOW TO CHECK THE FUEL FILTER	27
	27
HOW TO LEVEL THE MOWER HOUSING	28
	29
HOW TO INSTALL THE MOWER HOUSING	29
HOW TO REPLACE THE MOTION DRIVE BELT	30
HOW TO REPLACE THE MOWER DRIVE BELT	31
	32
TROUBLE SHOOTING CHART	34
HOW TO ORDER REPAIR PARTS	35
SLOPE GUIDE	48
INDEX	51
DECLARATION OF CONFORMITY	52
	53
PRODUCT FAILURE	54 55
	55

OWNER'S INFORMATION

This instruction book is for several different models. The instructions are 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.

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 reproductive harm.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.

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 instructions.
- 3. Inspect the unit.
- 4. Make sure that the operator of the unit knows how to correctly use all standard and accessory equipment.
- Operate the unit only with guards, shields, and other safety 5. items in place and working correctly.
- 6. Correctly adjust the unit.
- Service the unit only with authorized or approved replacement 7. parts.
- Complete all maintenance on the unit. 8

Environmental Awareness

Do not fill the engine's fuel tank completely full.

- Drain fuel for off-season storage.
- Use only unleaded gasoline.
- Service the air cleaner regularly.
- Change oil regularly. Use 10W-30 oil in summer.
- Tune-up the engine regularly.
- Keep equipment in efficient operating condition.
- Dispose of used engine oil properly.

SAFETY RULES

Safe Operation Practices for Ride-on Mowers

WARNING: 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.

Ι. General operation

- Read, understand and follow all instructions in the Instruction Book, on the machine, the engine and with any attachments before 1. starting.
- 2. Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade. 3.
- Be sure the area is clear of other people before mowing. Stop the machine if anyone enters the area. 4.
- 5. Never carry passengers.
- Turn off power to the blades or any attachments before backing up. Do not mow in reverse unless absolutely necessary. Always look 6. down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass bagger 7. or the mower guard in place.
- 8. Slow down before turning.
- 9 Never leave a machine unattended with the engine running. Always turn off the blade(s), set the parking brake, stop the engine and remove the key before dismounting.
- 10. Turn off power to attachment(s) when transporting or not in use. Turn off the blade(s) when not mowing.
- 11. Stop the engine before removing the grass bagger or unclogging the chute.
- 12. Mow only in daylight or good artificial light.
- 13. Do not operate the machine while under the influence of alcohol or drugs or when very tired.
- 14. Watch for traffic when operating near or crossing roadways.
- 15. Use extra caution when loading or unloading the machine into a trailer or truck.
- 16. Disengage all attachment clutches and shift into Neutral before attempting to start the engine.
- 17. Always wear goggles, safety glasses, or an eye shield when you operate the unit to protect your eyes from foreign objects that can be thrown from the unit. Always wear eye protection when you make an adjustment or repair to the machine.
- 18. Use care when pulling loads or using heavy equipment.
 - a. Use only approved drawbar hitch points.

F-030603C

OWNER'S INFORMATION

- b. Limit loads to those you can safely control.
- c. Do not turn sharply. Use care when backing.
- d. Use counterweights or wheel weights when suggested in the Instruction Book.
- 19. Do not operate this machine if you are taking drugs or other medication which can cause drowsiness or affect your ability to operate this machine.
- 20. Do not use this machine if you are mentally or physically unable to operate this machine safely.
- 21. Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower related injuries. These operators should evaluate their ability to operate a riding mower safely enough to protect themselves and others from serious injury.

II. Slope operation

Slopes and rough terrain are major factors related to loss-of-control and tip-over accidents, which can result in severe injury or death. ALL slopes require extra caution. If you cannot back up the slope or if you feel uneasy on the slope, do not mow it. See the "Slope Guide" in the back of this book to check for safe operation.

DO

- 1. Mow up and down slopes, not across.
- 2. Remove obstacles such as rocks, limbs, etc...
- 3. Watch for holes, ruts or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- 4. Use slow speed. Choose a low enough gear so that you will not have to stop or shift while on the slope.
- 5. Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- 6. Use extra care with grass baggers or other attachments, they can change the stability of the machine.
- 7. Keep all movement on the slopes **slow and gradual**. Do not make sudden changes in speed or direction.
- 8. Avoid starting or stopping on a slope. If tires lose traction, turn off the blades and proceed slowly straight down the slope.

DO NOT

- 1. Do not turn on slopes unless absolutely necessary, then only turn slowly and gradually downhill, if possible.
- 2. **Do not** mow drop-offs, ditches or embankments. A wheel over the edge or an edge caving in could cause a sudden overturn and an injury or death.
- 3. Do not mow on wet grass. Reduced traction could cause sliding.
- 4. Do not try to stabilize the machine by putting your foot on the ground.
- 5. Do not use a grass bagger or other rear mounted accessories on steep slopes (greater than 10 degrees).

III. Children

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. NEVER assume that children will remain where you last saw them.

- 1. Keep children out of the mowing area and in the watchful care of another responsible adult.
- 2. Be alert and turn the engine off if children enter the area.
- 3. Before and when backing, look behind and down for small children.
- 4. Never carry children or any passengers, even with the blades off. They may fall off and be seriously injured or interfere with the safe operation of the machine.
- 5. Never allow children to operate the machine. Instruct children in the potential dangers of the machine.
- 6. Use extra care when approaching blind corners, shrubs, trees or other objects that may obscure vision.

IV. Service

- 1. Use extra care when handling gasoline and other fuels. Fuels are flammable and the vapors are explosive.
 - a. Use only an approved container.
 - b. Never remove the gas cap or add fuel with the engine running. Allow the engine to cool for several minutes before refueling. Do not smoke.
 - c. Never refuel the machine indoors.
 - d. Never store the machine with fuel in the tank or fuel container inside where there is an open flame, such as a water heater.
- 2. Never start or run the engine inside a closed area.
- 3. Keep all nuts and bolts, especially the blade attachment nuts tight. Frequently check the blade(s) for wear or damage such as cracks and nicks. A blade that is bent or damaged must be immediately replaced with an original equipment blade from an authorized service dealer. For safety, replace the blade every two years. Keep the equipment in good condition.
- 4. Never tamper with the safety devices. Check their proper operation regularly.
- 5. To reduce fire hazards, keep the machine free of grass, leaves or other debris build-up. Clean up oil or fuel spills. Allow the machine to cool before storing.
- 6. Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- 7. Never make adjustments or repairs with the engine running. The carburetor can be adjusted with the engine running. Do not change the engine governor settings or over-speed the engine.
- Grass bagger components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. For storage, always make sure the grass bag is empty. Frequently check components and replace with manufacturer's recommended parts when necessary.
- 9. Mower blade(s) are sharp and can cut. Wrap the blade(s) or wear gloves and use extra caution when servicing them or the blade housing area.
- 10. Check the brake operation frequently. Adjust and service as required.
- 11. Wait for all movement to stop before servicing any part of the unit.



Look for this symbol to indicate important safety precautions. This symbol indicates: "Attention! Become Alert! Your Safety Is At Risk."

SAFE MOWING GUIDE

Residual risks

Even if you use this product in accordance with all safety requirements, the potential risk of injury and damage remains. The following hazards may arise from the structure and design of this product:

There is risk of injury and property damage due to attachments or broken sudden impact of hidden objects when using cutters.

Risk of damage to personal injury and property damage caused by flying objects.
Prolonged use of this product exposes the operator to vibrations and can produce so-called "white finger" disease. To reduce the risk, please wear

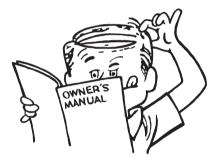
If any of the symptoms of "white finger" syndrome appear, see a doctor immediately. Symptoms of the "white finger" include: numbness, loss of sensitivity, tickling, tingling, pain, loss of strength, color changes, or skin condition. These symptoms usually appear on the fingers, hands or wrists. Risk increases at low temperatures

- Long exposure to noise can affect the health of the operator. Hearing protection should always be worn when using the tool. The functioning of the tool must be limited and a little rest must be taken between two sessions (for example 10min of operation and 20min of rest). Intended use

This mover is designed for mowing natural grass. Any other use is prohibited. It is only suitable for private use in a garden or plot. Mowers designed for private plots or gardens are those used for the maintenance of grassy areas and private lawns and should not be used in public areas, parks, sports, agricultural or forestry areas.

Each person that operates power equipment must learn to use correct and safe mowing procedures. To help you learn, carefully read the following pages. Most of the time the operator was not correctly shown or did not read the instructions on the unit or in the Instruction Book before using the unit. Also, some operators do not have enough experience. The result is unsafe use, endangering the operator, bystanders and the equipment. Another result can be a poor appearance of the area mowed

Read this book. Read the instructions on the unit. Operate the mower according to the Safe Mowing Guide. Follow all safety rules, cautions or warnings in this book and on the unit. Make sure anyone that uses the unit reads the instructions and is told how to safely operate the mower.



The mower will give you good service and durability, if operated in normal conditions. If the mower is not correctly serviced or is used where the terrain is rough or unsuitable, product performance and safety will be decreased.

Correct clothing is an important part of safe mowing. Safety glasses will protect the eves from objects discharged by the mower. Safety shoes with steel plates can protect a foot from injury by the blade. For protection from objects discharged from the mower, wear clothing that will cover the arms and legs.



Before you start cutting the grass, practice using the mower in a large open and level area. Learn the location of the controls on the mower. Know the purpose of the F-030603C

controls and how they work. In an emergency, how fast you can stop the blade is important. Learn how to control the mower at all times

Many engines are started by hand. When you use a pull start or rope start, place your feet apart and away from the blade(s). Hold the rope handle tight. Never wrap the rope around your arm or fingers for a "better grip". To start the engine, follow the instructions on the mower, in this book and in the engine operating instructions.

For electric start engines, sit in the seat to start the engine. The battery can be dangerous. Follow the instructions on the battery, the acid container, and in this book when working with the battery. Even small batteries have enough voltage to cause an injury. Always be careful.

The mower is designed to be operated by one person. Never let another person ride with you on the unit or on any accessories. A passenger will make the unit harder to control, block the visibility or distract the operator and is dangerous to the operator, the passenger and the equipment. Without a passenger seat, the passenger can fall from the mower or contact dangerous parts. A mower is not a toy for showing off or for giving rides.



Never cut a wet lawn. Wet grass can cause an accident, affect mower performance and can cause problems with future lawn growth and appearance. Wet grass is slippery and can cause the mower to slip. Someone can get injured by touching the blade(s). Wet grass tends to clog the mower, causing poor discharge. Cut wet grass will collect on the lawn, retarding the growth of the grass. Also, getting the mower wet will cause parts to rust and decrease the life of the unit.

When you look over the lawn, remember obstacles that cannot be removed, like pipes, stumps or rocks. Keep away from these obstacles that can cause damage to the mower or injury to the operator or a person near the mower. Clear the area of rocks, toys, wire or other loose objects. These items can damage the mower or can be discharged by the mower blade.



The blade of a power mower rotates very fast. It can discharge rocks and other objects over a long distance which can be dangerous. The force of the objects can break windows, cause injuries or even put an eye out. Most of the time the injury is to a person, like a child. Keep every person completely away from the area to be mowed. Make sure the grass is not discharged toward anyone. Planning your mowing pattern has a double advantage. It can decrease the possibility of an injury and make the clean up after mowing easier



Check the terrain of the area to be mowed. Mow in a pattern that will keep you away from dangerous areas. Check the distance you need to stop and the distance available to turn. Slopes and rough terrain must be mowed carefully and some areas must not be mowed at all. With riding mowers, mow up and down the hill. When you must mow rough terrain or on slopes, never change directions or change gears and stop in these areas only in an emergency. Before you ride up or down a slope, try to back straight up the slope. Do not ride up or down a slope that is too steep to back straight up. See the "Guide" in the back of this Instruction Book to check any slopes.



Before you start cutting, make sure the mower was completely assembled according to the Instruction Book. If the

SAFE MOWING GUIDE

mower was completely assembled at the store, you must still check the mower according to the assembly instructions. Make sure the mower is correctly assembled and that all fasteners are tight. Make sure the engine has the correct amount of oil. Check these items often during the life of the mower.

Your mower has a gasoline engine. Gasoline is a dangerous fuel. Keep gasoline only in an approved safety gasoline container. Do not keep large amounts of gasoline. When you add gasoline to the fuel tank, do not smoke. Store the gasoline container and the mower in an area that has good ventilation. Also, keep the gasoline away from any flames like the pilot light of a furnace or any other source of ignition. If the mower is to be stored for more than a few weeks, remove the gasoline from the fuel tank. When inside an enclosure, do not add gasoline to the fuel tank. Before you add gasoline, move the mower outside and add gasoline carefully. Before you start the engine, remove any gasoline from the outside of the fuel tank or from the mower. Warm gasoline will expand. Leave some space in the fuel tank for the gasoline to expand. Also, the fuel cap has a vent hole for fuel vapors. Always use the correct fuel cap. Failure to follow safety rules about gasoline will cause fires and explosions, injury to you and damage to the equipment and other property.



If you add gasoline to an engine that is running or hot, the result can be an explosion. Before you add gasoline, stop the engine and let the engine cool for several minutes. Remove dry grass and other debris from the mower. Keep the mower clean to improve the performance, help the engine and transmission run cooler, extend the life of moving parts, and decrease the danger of a fire.

Fires and explosions are not the only dangers when working around a mower. The engine, transmission, and the muffler will get hot in several minutes when the engine is running. Do not touch these parts F-030603C of the mower. Stop the engine. Let the engine and transmission cool before servicing the mower. Remember, exhaust fumes are dangerous. Never operate the engine inside a building.

When you get a new mower, it can be a new experience for the family. Tell each person how a mower can be dangerous. Remember, a mower is not a toy. A mower is not to be used by children or anyone not old enough, strong enough or that does not have experience.

If the mower is not correctly assembled, not operated correctly, or not regularly serviced, the mower can be dangerous. The most important rule to follow is always use good judgement and common sense. Mow safely and carefully.

Your mower will easily cut thick grass. Fingers, feet and other parts can also be cut by the blade. Injuries occur when the operator does not think and reaches into the chute opening. Always operate the mower as if the blade is rotating. Do not service or make an adjustment, except to the carburetor, while the engine is running.



Use only accessories that are factory approved for your mower. The wrong accessory can decrease the safety of the mower and can even damage the unit. Read and follow the instructions included with the accessory and the mower.

Use only original equipment or replacement parts that are factory approved for service. If you need service, select an Authorized Service Center for your mower. If you do the work on the unit, follow the instructions in the Instruction Book.



When you mow, remember that children are attracted to the mower. Always use caution when mowing around obstacles like trees or shrubs or when moving backward. Only mow in a forward direction if possible. Your visibility is decreased when you mow backward. Also, the blades are made to cut while the unit is moving forward. If you mow backward, the cutting performance decreases.



Before you leave the mower, stop the engine. Remove the key. Disengage and lower any attachment. Set the parking brake. Never mount or dismount from the seat while the engine is running. An accident can occur if you touch the brake, shift lever, throttle, clutch or blade control while the engine is running. Mount and dismount from the seat on the side of the unit that is marked ENTER-EXIT.



Make sure you are in good condition when you mow. When you mow for several hours your reflexes will decrease and your mind will not be as alert. Take a short break or an accident can occur. If the temperature is hot, use caution to prevent dehydration. If you are tired, angry or not completely alert, do not operate the mower. If you use alcohol, medication or drugs, do not use the mower or any type of power equipment.

Engine speed is a key to safe mowing and to a good looking lawn. The maximum speed of the engine was set at the factory. Do not change the setting of the engine governor.

Select the maximum engine and ground speed that is right for the terrain and the height of the grass. The blade cuts best when the engine is operating at maximum speed. The engine and transmission will also run cooler at maximum engine speed.

SAFE MOWING GUIDE

Also, the grass bagger will function better when the engine is operating at maximum speed. On slopes, decrease the ground speed and use care making sure the mower feels safe to operate.

If the weather conditions are bad, do not mow. If weather conditions become bad, stop cutting and finish later. It is dangerous to cut grass in the rain. Always find protection in an electrical storm. If the weather conditions are extra dry, protect your eyes with safety glasses from the dust and from the objects discharged by the mower. Also, a dust or a pollen mask can help.



Your mower is equipped with a number of safety devices which are important to the safety of the operator and bystanders and must never be changed or removed from the mower. If a safety device is lost, damaged or no longer functions, repair or replace the device before you operate the mower.

It is best to mow during the day. If you must mow at night, make sure there is enough light for safe operation.

Your mower will require regular maintenance and service. The maintenance schedule depends on the hours of use. Also, mowing conditions can change the schedule. Check the Instruction Book for more information. Correct maintenance will help the mower function safely.

Do not service the mower (except for the carburetor adjustment) while the engine is running. Before you service the unit, even with the engine stopped, always disconnect the wire from the spark plug to prevent the engine from starting.

If you hit a large object during operation, stop the engine. Remove the wire from the spark plug. Carefully inspect the mower for damage. Before you start the engine again, make the necessary repairs. If you feel new or excessive vibration, immediately stop the engine and check for the problem. Vibration can be a warning of a problem. Keep all nuts, bolts and screws tight.

The blade is the most dangerous part of the mower. Frequently check the blade and the blade mounting fasteners. Keep the fasteners tight. If the blade hits a solid object, stop the engine. Remove the wire from the spark plug. Check for a blade that is bent, cracked or for other damages. Before you start the engine, replace a damaged blade(s). For safety, replace the blade every two years.



A sharp blade decreases the workload on the engine and more evenly cuts grass. Frequently sharpen the blade for a better looking cut. Use the left side of the mower housing to trim near an object.

A grass bagger is a good accessory for your mower. For best performance and safety, make sure the grass bagger is approved for use with your mower. Follow the assembly and operation instructions included with the grass bagger.

Some grass baggers require a special blade for best performance. Before you attach, check, or empty the grass bagger, always stop the engine. Before each use of the grass bagger, check for cracks, wear or deterioration. Before you use the grass bagger, replace a damaged part with a replacement part approved by the factory.



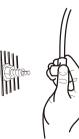
For you to have a good green lawn, follow the mowing procedures below. Do not cut the grass too short. If you cut the grass too short you can cause the grass to become yellow or make the lawn look brown. Use a lower height of cut in cool months when the grass is thicker. Raise the height of cut in hot dry periods. If you cut the grass with a blade that is not sharp or at a slow engine speed you can damage the grass. Move the throttle control to the FAST position when mowing and using the grass bagger. Also, use a slower ground speed when using the grass bagger.

If you change the direction or pattern of cut slightly every time you mow will make the grass grow stronger and thicker. Do not add oil or gasoline to the mower while on the lawn. Spilled oil or gasoline can kill the grass. In high or thick grass, do not try to cut all the grass the first time. Raise the height of cut on the first cutting and lower the height for the next cutting. Another way is to cut only part of the width of the mower and decrease your ground speed (not the engine) to move more slowly so that the mower can discharge the grass as it moves forward.

Understand the controls and how they work. Learn the ground speed(s) of your mower. Check the stopping distance required at different travel speeds. Check the turning radius of the mower. The controls on your riding mower are different from an automobile. The throttle is operated by hand and holds the engine speed constant until it is changed. The location of the shift lever and the shift pattern is different from that of an automobile. Also, the brake and clutch systems are different. Remember the procedures to follow in an emergency. Remember, turning off the engine ignition switch will stop the blade and the drive mechanism. If the traction of the wheels is lost or does not feel safe, disengage all systems and stop the engine. Dismount from the mower. Push the unit to a safe place before you begin mowing again.

Your unit has an electrical system that includes an operator presence switch in the seat. The operator presence switch detects if the operator is sitting on the seat. The engine will stop if the operator leaves the seat when the blade engagement control is engaged. This operator presence switch is a safety device only. It must not regularly be used to stop the engine or the blade. There are other control systems on the mower for this purpose. Always keep the operator presence switch and other safety devices and controls in place and operating for your protection.

Remember, your mower is a tool that can be dangerous if it is not correctly used. Follow the instructions in this Instruction Book. Safe and careful use of the mower will give you many safe hours of problem free use.



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, muffler, and transmission 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. 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. Look back before changing direction of travel.
- 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."

INTERNATIONAL PICTORIALS

INTERNATIONAL PICTURIALS

IMPORTANT: Some of the following pictorials are located on your unit or on literature supplied with the product. Before you operate the unit, learn and understand the purpose for each pictorials .

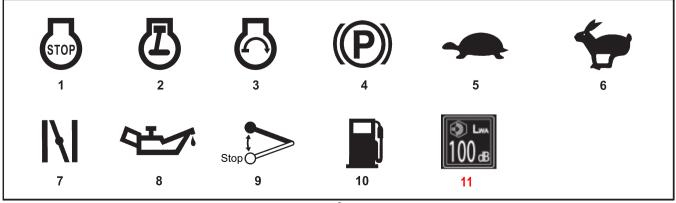
Safety Warning Pictorials

- Warning
- Thrown Objects
- DANGER: Keep Hands Away From Rotating Blade
- IMPORTANT: Read Owner's Manual Before Operating This Machine
- Keep Bystanders Away
- DANGER: Disconnect Spark Plug Wire Before Servicing Unit
- Check Oil And Fuel Before Start To Use
- Wear Safety Goggles



Control And Operating Pictorials

1.Engine Stop 2.Engine Run 3.Engine Start 4.Parking Brake 5.Slow 6.Fast 7.Choke 8.Oil 9.Brake 10.Fuel 11.Guaranteed sound power level



F-030603C

ASSEMBLY

Read and follow the assembly and adjustment instructions for your mower. All fasteners are in the parts bag. Do not discard any parts or material until the unit is assembled.



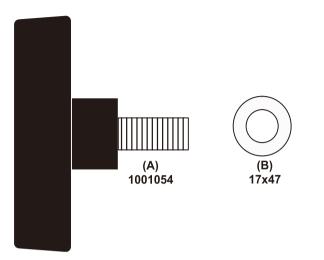
WARNING: Before doing any assembly or maintenance to the mower, remove the wire from the spark plug.

NOTE: In this instruction book, left and right describe the location of a part with the operator on the seat.

PARTS BAG - CONTENTS The fasteners and other loose parts are shown below. The fasteners are shown full size. The quantity is shown in brackets (). 2x82 (2) Carriage Bolt 14x79 (2) Wing Nut 1001054 (2) Knob (2) Ignition Key 17x47 (2) Washer LOOSE PARTS - CONTENTS Steering Colar Steering Wheel And Seat Post Seat Literature Kit Hardware Pack Side Discharge Attachment F-030603C 10

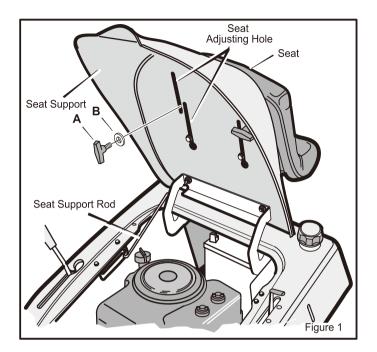
HOW TO INSTALL THE SEAT

Use the fasteners shown below to install the **seat**. The fasteners are shown at full size.



- 1. Carefully remove the plastic bag from the seat.
- 2. Raise the **seat support** and secure in the UP position with the **seat support rod.**
- 3. Align the holes in the **seat** to the holes in the **seat support** (Figure 1). Fasten the **seat** to the **seat support** with the fasteners as shown.

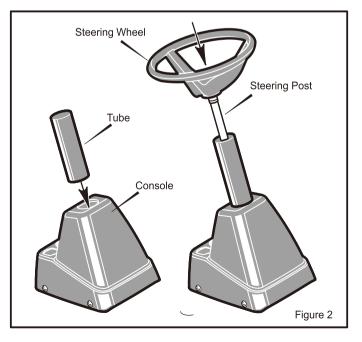
 Check the operating position of the seat. If the seat needs to be adjusted, loosen the two wing bolts (A). Slide the seat forward or backward along the seat adjusting holes as shown. Tighten the wing bolts (A).



HOW TO ASSEMBLE THE STEERING WHEEL

Attach the steering wheel as follows:

- 1. Make sure the front wheels point forward.
- 2. Slide the **tube** into the **console** (Figure 2). Make sure the end of the **tube** fits over the steering bushing.
- 3. Slide the **steering wheel** and **steering post** into the **tube** and **console**. Push on the **steering wheel**. The **steering post** will lock onto the pinion gear. Pull on the **steering wheel**. Make sure that the **steering post** is locked in place.



MAINTENANCE FREE BATTERY

IMPORTANT: Before you attach the battery cables to the battery, check the battery date. The battery date tells if the battery must be charged.

- 1. Raise the seat support and secure in the UP position with the seat support rod.
- 2. Check the top of the battery for the location of the **battery date** (Figure 3).
- 3. If the **battery** is put into service *before* the **battery date**, the **battery** cables can be attached without charging the **battery**. See "How To Install The Battery Cables".
- 4. If the **battery** is put into service *after* the **battery date**, the **battery** must be charged. See "How To Charge The Maintenance Free Battery".

HOW TO CHARGE THE MAINTENANCE FREE BATTERY

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.

- 1. To disconnect the **battery retainer** from the **battery tray**, push in on the lower end of the **battery retainer**.
- 2. Remove the battery from the right side of the unit.

- 3. Remove the protective caps from the **battery terminals**.
- 4. Use a 12 volt battery charger to charge the **battery**. Charge at a rate of 6 amperes for one hour. If you do not have a battery charger, have an authorized service center charge the battery.
- 5. Install the **battery** and secure with the **battery retainer**. Make sure the **positive (+) terminal** is on the right side.

HOW TO INSTALL THE BATTERY CABLES

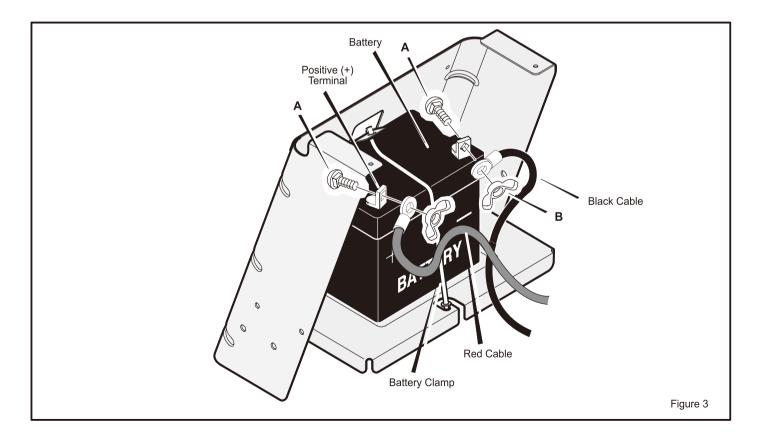


WARNING: To prevent sparks, fasten the red cable to the positive (+) terminal before you connect the black cable.

Use the fasteners shown below to install the **battery cables**. The fasteners are shown at full size.



- 1. Remove the protective caps from the battery terminals.
- 2. Fasten the **red cable** to the **positive (+) terminal** with the fasteners as shown (Figure 3).
- 3. Fasten the **black cable** to the negative (-) terminal with the fasteners as shown.



IMPORTANT! BEFORE YOU START MOWING

- Check the engine oil.
- Fill the fuel tank with gasoline.
- Check the level of the mower housing.
- Check the air pressure of the tires.
- Make sure the battery cables are attached.



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 on the seat.

HOW TO PREPARE THE ENGINE

NOTE: The engine was shipped from the factory filled with oil. Check the level of the oil. Add oil as needed.

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.

IMPORTANT: This unit is equipped with an internal combustion engine and must 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 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.

In some areas, local law requires the use of a resistor spark plug to control the ignition signals. See an Authorized Service Center for a resistor spark plug for the engine.

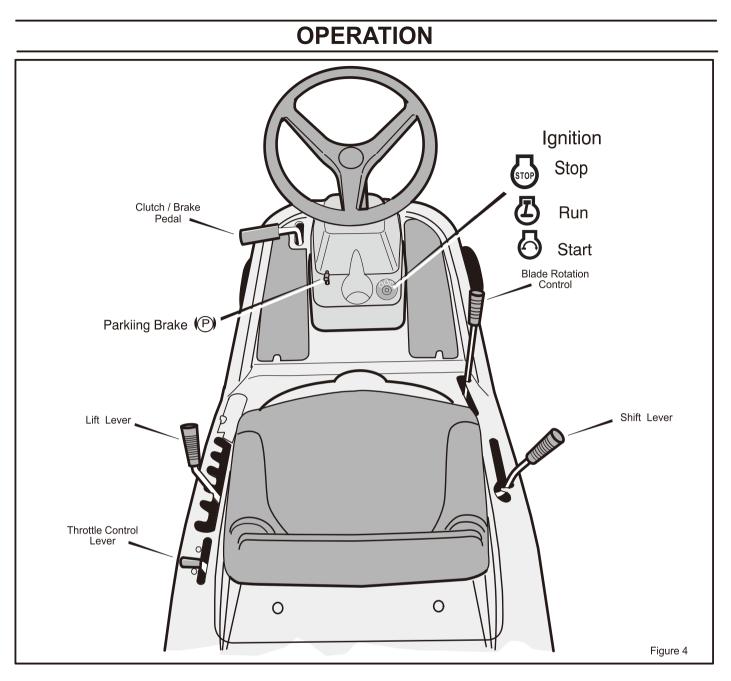
NOTE: Actual sustained horsepower will likely be lower due to operating limitations and environmental factors.

CHECK THE LEVEL OF THE MOWER HOUSING

Make sure the level of cut is still correct. After you mow a short distance, look at the area that was cut. If the mower housing does not cut level, see the instructions on "How To Level The Mower Housing" in the Maintenance section of this instruction book.

CHECK THE TIRES

Check the air pressure in the tires. Tires with too much air pressure will cause the unit to ride rough. Also, the wrong air pressure will keep the mower housing from cutting level. The correct air pressure (PSI) is 14 PSI (1 BAR). The tires were over inflated for shipment.



LOCATION OF CONTROLS

BLADE ROTATION CONTROL: Use the blade rotation control to start and stop the rotation of the blade.

CLUTCH / BRAKE PEDAL: The pedal has two functions. The first function is a clutch. The second function is a brake.

IGNITION SWITCH: Use the ignition switch to start and stop the engine.

SHIFT LEVER: Use the shift lever to change the speed of the unit.

LIFT LEVER: Use the lift lever to change the height of cut.

PARKING BRAKE LEVER: Use the parking brake lever to engage the brake when you leave the unit.

THROTTLE CONTROL LEVER: Use the throttle control lever to increase or decrease the speed of the engine.

ATTACHMENTS

This unit can use many different attachments. See the attachment page in this book. This unit can pull attachments like a lawn sweeper, a lawn aerator, a hopper spreader, or a small trailer. This unit can not use attachments that engage the ground like a plow, a disk harrow, or a cultivator.

For all pull-behind attachments or trailers, the maximum gross

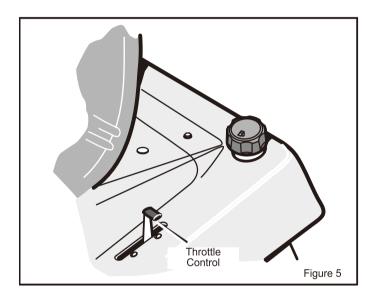
weight is 200 pounds. Gross weight is the weight of the attachment or trailer and any load that might be on or in it.

Do not operate on a slope that is greater than 10 degrees when using a pull-behind attachment or trailer. We have included a slope guide in this book to help you determine the slope on which you will be operating your unit. Never allow someone to stand or ride on or in an attachment or trailer.

HOW TO USE THE THROTTLE / CHOKE CONTROL

Use the **throttle/choke control** to choke the engine for cold starts and increase or decrease the speed of the engine (see Figure 5).

- 1. Move the **throttle/choke control** completely forward to the CHOKE position to start a cold engine.
- 2. The FAST position is marked with a detent. For normal operation and when using a grass bagger, move the **throttle control** to the FAST position. For maximum charging of the battery and for a cooler running engine, operate the engine in the FAST position.
- The engine governor is set at the factory for maximum performance. Do not adjust the governor to increase the speed of the engine.



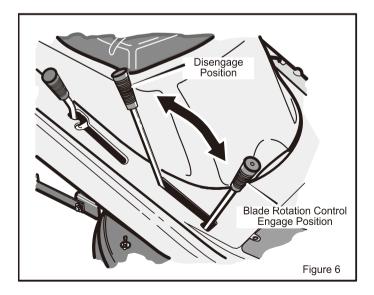
HOW TO USE THE BLADE ROTATION CONTROL

Use the blade rotation control to engage the blade (Figure 6).

- 1. Before you start the engine, make sure the **blade rotation control** is in the **DISENGAGE position.**
- 2. To rotate the blade, move the **blade rotation control** forward to lock the blade in the **ENGAGE position.**
- To stop the blade, move the blade rotation control to the DIS-ENGAGE position. Before you leave the operator's position, make sure the blade has stopped rotating.
- 4. Before you ride the unit across a sidewalk or a road, move the **blade rotation control** to the **DISENGAGE position**.



WARNING: Always keep your hands and feet away from the blade, deflector opening, and the mower housing when the engine runs.

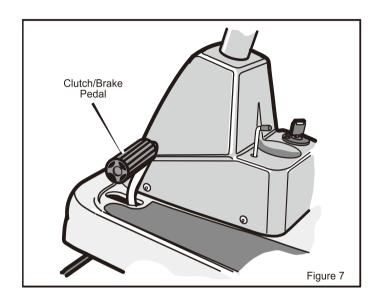


HOW TO USE THE SHIFT LEVER

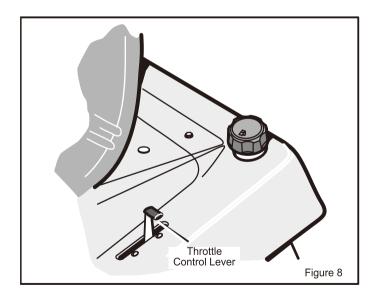
To change the forward speed or the direction of the unit, follow the steps below.

CAUTION: Before you move the shift lever, completely push the clutch/brake pedal forward to stop the unit. If the unit is not stopped, the gearbox can be damaged.

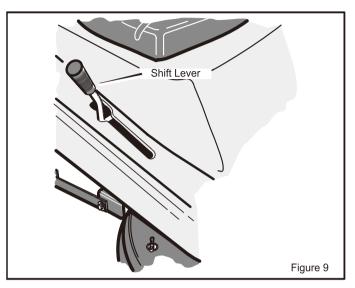
1. Completely push the **clutch/brake pedal** forward to stop the unit. Keep your foot on the pedal (see Figure 7).



2. Move the **throttle control lever** to the SLOW position (see Figure 8).



3. To go forward, move the **shift lever** to a forward speed setting. To go backward, move the **shift lever** to reverse.



- 4. Slowly release the **clutch/brake pedal**. Do not keep your foot on the pedal.
- 5. Move the **throttle control** to the FAST position.

FUNCTION	SHIFT LEVER 6 Speeds	THROTTLE
Trimming Snow Thrower	1	
Bagging Grass	1 or 2	FAST
Mulching Grass	1 or 2	CHOKE
Normal Mowing	2 or 3	FAST
Easy Mowing Snow Blade	3 or 4	SLOW
Transport	5 or 6	THROTTLE
Attachments	*	

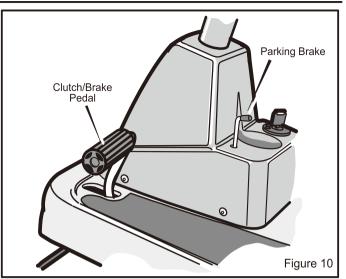
* See the Instruction Book for the Attachment.

HOW TO SET THE PARKING BRAKE

- 1. Completely push the clutch/brake pedal forward.
- 2. Lift the parking brake lever (Figure 10).
- 3. Remove your foot from the clutch/brake pedal and then release the **parking brake lever**. Make sure the parking brake will hold the unit.
- To release the parking brake, completely push the clutch/ brake pedal forward. The parking brake will automatically release.



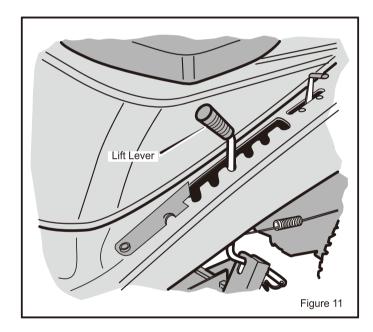
WARNING: Before you leave the operator's position, move the shift lever to the neutral (N) position. Set the parking brake. Move the blade rotation control to the DISENGAGE position. Stop the engine and remove the ignition key.



HOW TO CHANGE THE CUTTING HEIGHT

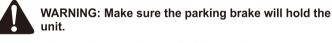
To change the cutting height, raise or lower the lift lever as follows.

- 1. Move the **lift lever** forward to lower the mower housing and back to raise the mower housing (Figure 11).
- 2. When you ride on a sidewalk or road, move the **lift lever** to the highest position and move the blade rotation control to the DISENGAGE position.



HOW TO STOP THE UNIT

- 1. Completely push the **clutch/brake pedal** forward to stop the unit. Keep your foot on the pedal.
- 2. Move the blade rotation control to the DISENGAGE position.
- 3. Move the shift lever to the NEUTRAL position.
- 4. Set the parking brake.



- 5. Move the throttle control to the SLOW position.
- 6. To stop the engine, turn the ignition key to the OFF position. Remove the key.

HOW TO TRANSPORT THE UNIT

To transport the unit, follow the steps below.

- 1. Move the blade rotation control to the DISENGAGE position.
- 2. Raise the lift lever to the highest position.

F-030603C

- Move the throttle control to a position between SLOW and FAST.
- 4. To go faster, move the shift lever to a faster speed.

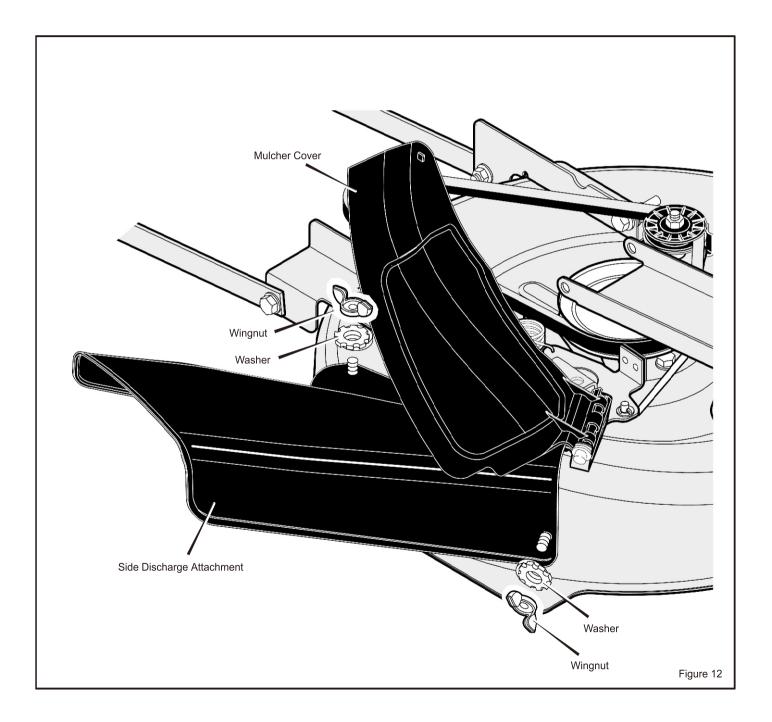
HOW TO INSTALL THE SIDE DISCHARGE ATTACHMENT



WARNING: To prevent the engine from starting, disconnect the wire from the spark plug. Make sure the blade rotation control is in the DISENGAGE position.

The **mulcher cover** lets you mulch the grass for a clean, fine cut. To discharge the grass out the side, install the **side discharge attachment** as follows.

- 1. Remove the fasteners that secure the **mulcher cover** (see Figure 12).
- 2. Lift the **mulcher cover**. Mount the **side discharge attachment** onto the same bolts that secured the **mulcher cover**.
- 3. Secure the **side discharge attachment** with the fasteners.
- 4. To mulch, remove the **side discharge attachment** and mount the **mulcher cover** to the mower housing with the fasteners.



BEFORE STARTING THE ENGINE

CHECK THE OIL

NOTE: The engine was shipped from the factory filled with oil. Check the level of the oil. Add oil as needed. See the engine manufacturer's instructions for the type of gasoline and oil to use.

1. Make sure the unit is level.

NOTE: Do not check the level of the oil while the engine runs.

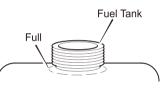
- 2. Check the oil. Follow the procedure in the engine manufacturer's instructions.
- 3. If necessary, add oil until the oil reaches the FULL mark on the dipstick. The quantity of oil needed from ADD to FULL is shown on the dipstick. Do not add too much oil.

ADD GASOLINE



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

Fill the fuel tank with regular unleaded gasoline. Do not use premium unleaded gasoline. Make sure the gasoline is fresh and clean. Leaded gasoline will increase deposits and shorten (the life of the valves.



CAUTION: A mixture of alcohol (ethanol or methanol) and gasoline (called gasohol), will attract moisture and cause acid deposits during storage. While the unit is in storage, the acids in the fuel can damage the fuel system.

To prevent engine problems with the fuel system, empty the fuel system before storage of 30 days or longer as follows.

- 1. Drain the fuel tank.
- 2. Start the engine. Let the engine run until the fuel lines and the carburetor are empty.
- 3. After storage, make sure you use fresh fuel. See the storage instructions for additional information.
- 4. Never use engine cleaner or carburetor cleaner in the fuel tank or permanent damage can occur.

CARBURETOR

The factory settings for the carburetor are for most conditions. If the engine is operated under the following conditions, you can adjust the carburetor mixture. To adjust the carburetor, see the engine manufacturer's instructions.

- 1. The engine has a loss of power or does not run smooth.
- 2. A change from summer to winter operation.
- 3. A 40 degree change in the operation temperature. The carburetor was adjusted at 80 degrees at the factory.
- 4. The engine is operated above 4,000 feet.

HOW TO START THE ENGINE



WARNING: The electrical system has an operator presence system that includes a sensor switch for the seat. These components tell the electrical system if the operator is sitting on the seat. This system will stop the engine when the operator leaves the seat if the blade rotation control is engaged or if the transmission is engaged. For your protection, always make sure this system operates correctly.

NOTE: The engine will not start unless you depress the clutch/brake pedal or engage the parking brake and move the blade rotation control to the DISENGAGE position.

1. Push the clutch/brake pedal completely forward. Keep your foot on the pedal.

- 2. Move the shift lever to the neutral (N) position.
- 3. Make sure the blade rotation control is in the DISENGAGE position.
- 4. Move the throttle control completely forward to the CHOKE or FAST position. Some models have a separate choke knob. Pull the choke knob to the full CHOKE position.
- 5. Turn the ignition key to the START position. Release the key when the engine starts.

NOTE: If the engine does not start after four or five tries, see the TROUBLE SHOOTING CHART.

- 6. Slowly move the throttle control to the SLOW position.
- 7. Let a cold engine run for several minutes. Begin work when the engine is warm. To start a hot engine, move the throttle control to a position between FAST and SLOW.

HOW TO OPERATE WITH THE MOWER HOUSING



WARNING: The mulch cover is a safety device. Do not remove the mulch cover. The deflector forces the discharged material toward the ground. Always keep the deflector in the down position. If the deflector is damaged, replace the deflector with an original equipment part from an authorized service center.

IMPORTANT: When you operate with the mower housing, always operate with the throttle control in the FAST position.

- 1. Start the engine.
- 2. Move the lift lever to a height of cut position. In high or thick grass, cut the grass in the highest position first and then lower the mower housing to a lower position.

CAUTION: Do not operate with the mower housing in the LEVEL ADJUSTMENT position. If you operate in the LEVEL ADJUSTMENT position, the mower housing and blades can be damaged.

3. Move the throttle control to the SLOW position.

- 4. Slowly move the blade rotation control to the ENGAGE position.
- 5. Push the clutch/brake pedal completely forward.
- 6. Move the shift lever to one of the speed settings.

NOTE: When you mow in heavy grass or mow with a bagger, put the shift lever in the slowest speed.

- 7. Slowly release the clutch/brake pedal.
- 8. Move the throttle control to the FAST position. If you need to go faster or slower, stop the unit and move the shift lever to another speed setting.
- 9. Make sure the level of cut is still correct. After you mow a short distance, look at the area that was cut. If the mower housing does not cut level, see the instructions on "How To Level The Mower Housing" in the Maintenance section.



WARNING: For better control of the unit, always select a safe speed.

HOW TO OPERATE THE UNIT ON HILLS



WARNING: Do not ride up or down slopes that are too steep to back straight up. Never ride the unit across a slope. See the "Slope Guide" in the back of this book for information on how to check slopes.

- 1. Before you ride up or down a hill, move the shift lever to the slowest speed.
- Do not stop or change speed settings on a hill. If you must stop, quickly push the clutch/brake pedal forward and set the parking brake.
- 3. To start again, make sure the shift lever is in the slowest speed. Move the throttle control to the SLOW position. Slowly release the pedal.
- 4. If you must stop or start on a hill, always have enough space for the unit to roll when you release the brake and engage the clutch.
- 5. Be very careful when you change directions on a hill. When on a slope or in a turn on a hill, move the throttle control to the SLOW position to help prevent an accident.

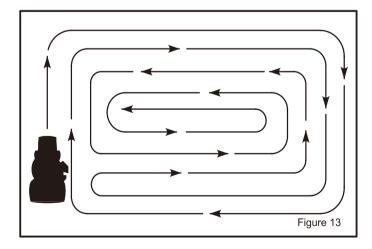
OPERATING TIPS

- Check the blade rotation control for correct adjustment. For the blade(s) to disengage correctly, the adjustment must be correct.
- 2. Before you use the unit, check the oil in the engine and add oil if necessary.
- 3. If the engine will not start, first make sure the wire is attached to the spark plug.
- 4. Make sure all the belts are inside all the belt guides. See the instructions on how to remove and install the motion drive and mower drive belts.
- Before you make an inspection, adjustment (except for the carburetor) or repair, make sure the wire from the spark plug is disconnected.
- 6. For longer life of the battery on electric start models, charge the battery every three months.
- 7. Use the shift lever to change the ground speed, not the throttle control.
- 8. Belt noise can occur when the blade or clutch is engaged. This noise is normal and does not affect the operation of the unit.

MOWING AND BAGGING TIPS

- 1. For a lawn to look better, check the cutting level of the mower housing. See "How To Level The Mower Housing" in the Maintenance section.
- 2. For the mower housing to cut level, make sure the tires have the correct amount of air pressure.
- 3. Every time you use the unit, check the blade. If the blade is bent or damaged, immediately replace the blade. Also, make sure the nut for the blade is tight.
- 4. Keep the blade(s) sharpened. Worn blades will cause the ends of the grass to turn brown.
- 5. Do not cut or bag grass that is wet. Wet grass will not discharge correctly. Let the grass dry before cutting.
- 6. Use the left side of the mower housing to trim near an object.
- 7. Discharge the cut grass onto the mowed area. The result is a more even discharge of cut grass.
- 8. When you mow large areas, start by turning to the right so that the cut grass will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left turns until finished (Figure 13).
- 9. If the grass is very high, cut two times to decrease the load on the engine. First cut with the mower housing in the highest position and then lower the mower housing for the second cut.

- 10. For better engine performance and an even discharge of the cut grass, always operate the engine with the throttle in FAST position.
- 11. When you use a bagger, operate the engine with the throttle in FAST position and the shift lever in first or second gear.
- 12. For better cutting performance and a quality cut, mow with the shift lever in one of the slower speeds.
- 13. After each use, clean the bottom and top of the mower housing for better performance. Also, a clean mower housing will help prevent a fire.



MAINTENANCE CHART

FREQUENCY	MAINTENANCE REQUIRED	COMMENTS
Daily or before each use	Maintenance engine.	Refer to the Engine Owner's Manual.
	Examine blade(s).	Check for cracks, wear, and excessive damage.
	Remove debris from unit and mowing area.	
	Examine all rotating and sliding parts.	
	Check tire inflation.	Refer to the Maintenance section.
	Verify that the mower housing is level.	Refer to the Maintenance section.
	Examine V-belts.	Check for cracks, wear, and excessive damage.
	Check brake operation.	Refer to the Operation and Maintenance sections.
After completion of first 5 hours	Change oil.	Refer to the Engine Owner's Manual.
After 25 hours	Maintenance engine.	Refer to the Engine Owner's Manual.
	Remove, examine, sharpen, and balance blade(s).	Refer to Maintenance section.
	Check adjustments: a. Blade Rotation Control b. Brake c. Clutch d. Steering	Refer to Maintenance section.
	Lubricate chassis and mower housing.	Refer to Where to Lubricate instructions.
	Check the muffler: a. Torque b. For wear or burn out c. Condition of spark arrestor, (if applicable).	Refer to Maintenance section.
Before storage of 30 days or more	Prepare engine for storage.	Refer to the Engine Owner's Manual.
	Drain fuel system.	Refer to warnings in the Owner's Manual .
	Add fuel stabilizer.	Refer to the Engine Owner's Manual.
	Prepare battery for storage: a. Remove from unit. b. Fully charge. c. Move to cool dry place.	

GENERAL RECOMMENDATIONS

- 1. The owner's responsibility is to maintain this product. This will extend the life of the product and is also necessary to maintain warranty coverage.
- 2. Check the spark plug, drive brake, lubricate the unit, and clean the air filter once a year.
- 3. Check the fasteners. Make sure all fasteners are tight.
- 4. Follow the Maintenance section to keep the unit in good operating condition.



WARNING: Before you make an inspection, adjustment, or repair to the unit, disconnect the wire to the spark plug. Remove the wire from the spark plug to prevent the engine from starting by accident.

F-030603C

NOTE: Torque is measured in foot pounds (metric Nm). This measurement describes how tight a nut or bolt must be. The torque is measured with a torque wrench.

HOW TO CHECK THE MUFFLER

Check the muffler every 50 hours. Make sure the muffler is correctly mounted and is not loose. If the muffler is worn or burnt, replace with a new muffler. A worn muffler is a fire hazard and can also damage the engine.

If you mount a spark arrester to the muffler, also check the spark arrester when you check the muffler. If the spark arrester is worn or damaged, replace it with a new spark arrester. See your nearest authorized service center for a spark arrester.

INSPECT BLADE

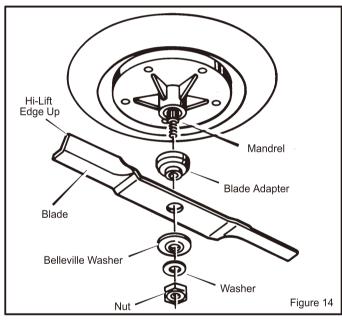


WARNING: Before you inspect or remove the blade, disconnect the wire to the spark plug. If the blade hits an object, stop the engine. Check the unit for damage. The blade has sharp edges. When you hold the blade, use gloves or cloth material to protect your hands.

If you keep the blade sharp and inspect the blade for damage, the blade will cut better and be more safe to operate. Frequently check the blade for excessive wear, cracks, or other damage. Frequently check the nut that holds the blade. Keep the nut tight. If the blade hits an object, stop the engine. Disconnect the wire to the spark plug. See if the blade is bent or damaged. Check the blade adapter for damage. Before you operate the unit, replace damaged parts with original equipment parts. See the authorized service center in your area. Every three years, have an authorized service person inspect the blade or replace the old blade with an original equipment part.

HOW TO REMOVE AND INSTALL THE BLADE

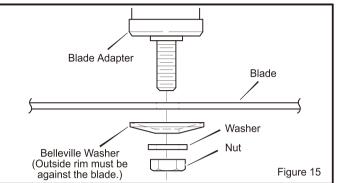
- 1. Remove the mower housing. See the instructions on "How To Remove The Mower Housing".
- 2. Use a piece of wood to keep the blade from rotating.
- 3. Remove the **nut** that holds the blade (Figure 14).



- Check the **blade** and the **blade** adapter according to the instructions for "Inspect Blade". Replace a badly worn or damaged **blade** with an original equipment blade. See an authorized service center in your area.
- 5. Clean the top and bottom of the mower housing. Remove all the grass and debris.
- 6. Mount the **blade** and **blade** adapter on the mandrel (Figure 14).
- 7. Mount the **blade** so that the **hi-lift edges** are up. If the **blade** is upside down, the **blade** will not cut correctly and can cause an accident.
- Fasten the blade with the original washers and nut. Make sure the outside rim of the Belleville washer is against the blade (Figure 15).

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

- 9. Tighten the **nut** that holds the **blade** to a torque of 35 foot pounds (47,5 N-m).
- 10. Install the mower housing. See "How To Install The Mower Housing".



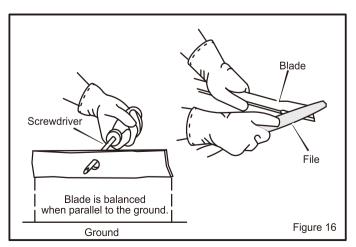
HOW TO SHARPEN THE BLADE



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

Keep a sharp edge on the **blade**. A **blade** that is not sharp will cause the tips of the grass to become brown.

- 1. Sharpen the **blade** two times a year or every 25 hours.
- 2. Remove the **blade** according to the instructions in "How To Remove And Install The Blade".
- 3. Clean the **blade** with a brush, soap and water. Check the **blade**. Look for cracks, nicks, or other damage. Replace a badly worn or damaged blade with an original equipment blade. See an authorized service center in your area.
- 4. Sharpen the **blade** with a **file** (Figure 16). Make sure you keep the original bevel angle.
- 5. Make sure the **blade** is balanced. Use a **screwdriver** and hold the **blade** parallel to the **ground** (Figure 16). 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.
- 6. A new blade will cut better than a badly worn blade. Every three years, have an authorized service person inspect the blade or replace the old blade with an original equipment blade.
- 7. Assemble the **blade** according to the instructions "How To Remove And Install The Blade".



F-030603C

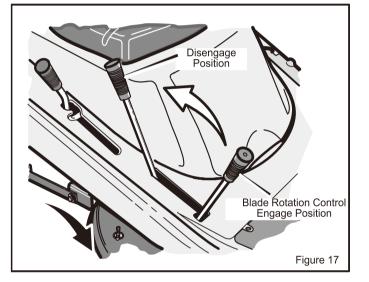
HOW TO CHECK THE BLADE ROTATION CONTROL



WARNING: To prevent an injury, the blade rotation control must operate correctly.

In normal usage, the **blade rotation control** will not require an adjustment. However, if the cutting performance decreases or the quality of cut is poor, make the following changes.

- 1. When you mow, make sure the throttle control in in the FAST position.
- 2. Move the **blade rotation control** to the **DISENGAGE position** (Figure 17).
- 3. Stop the engine. Disconnect the wire from the spark plug.

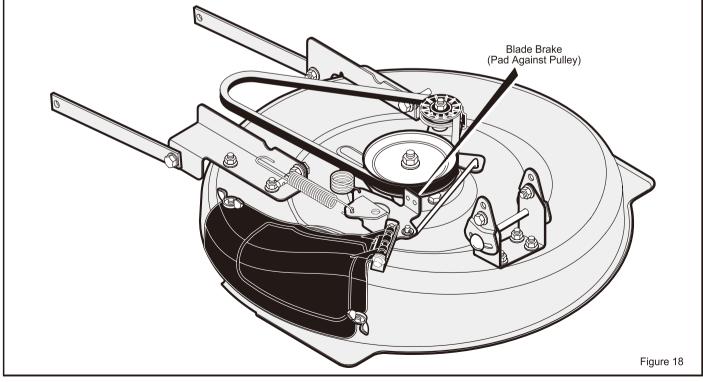


- 4. Check the blade(s). Keep a sharp edge on the blade(s). A blade that is not sharp will cause the tips of the grass to become brown.
- 5. If the quality of cut has not improved, replace the **mower drive belt**. See "How To Replace The Mower Drive Belt". If replacing the belt does not correct the problem, take the unit to an authorized service center.
- 6. Move the **blade rotation control** to the **DISENGAGE position.** Stop the engine. Disconnect the wire from the spark plug.
- 7. Check the operation of the **blade brake**. Rotate the pulley with your hand. Make sure the **brake pad** is pressed tightly against the pulley (Figure 18).



WARNING: If the brake pad does not press tightly against the pulley, take the unit to an authorized service center.

- 8. Move the **blade rotation control** to the **ENGAGE position.**
- 9. Check the pad for the **blade brake**. If the pad is excessively worn or damaged, replace the **brake pad** assemblies. Correct replacement parts and assistance are available from an authorized service center.
- 10. Attach the wire to the spark plug. Mow for a short distance and again check the operation of the **blade rotation control**.
- 11. When you move the **blade rotation control** to the **DISENGAGE position**, all movement will stop within five seconds. If there is movement of the belt or the blades continue to rotate, engage and disengage the **blade rotation control** five times to remove any excess rubber from a new **mower drive belt**. If you need assistance, take the unit to an authorized service center.



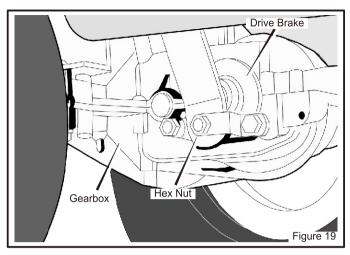
HOW TO CHECK AND ADJUST THE DRIVE BRAKE

Completely push the clutch/brake pedal forward. Set the parking brake. Move the shift lever to the neutral (N) position. Push the unit. If the rear wheels rotate, adjust or replace the brake pads. Adjust the **drive brake** as follows.

- 1. The location of the **drive brake** is on the left side of the **gearbox** (Figure 19).
- 2. Make sure the parking brake is set and the shift lever is in neutral (N). Turn the **hex nut** in a clockwise direction until the rear wheels do not turn when the unit is pushed forward.
- 3. Release the parking brake and push the unit. If the unit does not roll, turn the **hex nut** in a counterclockwise direction until the unit rolls.
- 4. Set the parking brake. Push the unit. If the rear wheels do not turn, the **drive brake** is correctly adjusted. Release the parking brake.



WARNING: If you cannot correctly adjust the drive brake, replace the brake pads. Correct replacement parts and assistance are available from an authorized service center.



HOW TO CHECK AND ADJUST THE CLUTCH

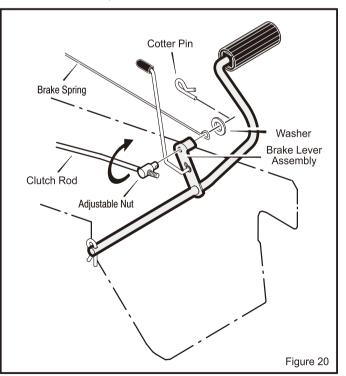
If the motion drive belt is loose, the clutch will slip when; (1) going up a hill, (2) pulling a heavy load, or (3) the unit will not move forward. Adjust the clutch as follows.



WARNING: Before you make an inspection, adjustment, or repair to the unit, disconnect the wire to the spark plug. Remove the wire from the spark plug to prevent the engine from starting by accident.

- 1. Check the routing of the motion drive belt. Make sure the belt is installed correctly and is inside all the belt guides.
- 2. Remove the **cotter pin**, **washer**, and **brake spring** from the **adjustable nut** (Figure 20).
- 3. Disconnect the **adjustable nut** from the **brake lever assembly.**
- 4. Align the hole in the **brake lever** with the rear of the slot in the **frame**.
- 5. Push the **clutch rod** toward the rear. Turn the **adjustable nut** until the nut will fit through the hole in the **brake lever**.
- 6. Assemble the **adjustable nut** to the **brake lever** and to the **brake spring**. Fasten with the **washer** and **cotter pin**.

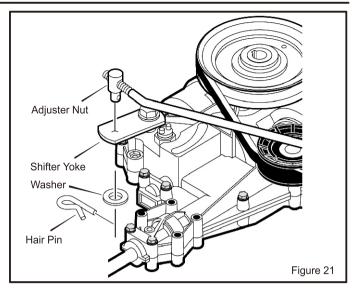
7. If the belt still slips after the clutch has been adjusted, then the motion drive belt is worn or damaged and must be replaced. See "How To Replace The Motion Drive Belt".



HOW TO ADJUST THE SHIFT LEVER

If the NEUTRAL position on the shift lever does not match neutral on the gearbox, adjust the shift lever as follows.

- 1. Stop the engine.
- 2. Disconnect the adjuster nut from the shifter yoke (Figure 21).
- 3. Make sure the shift lever is in the NEUTRAL position.
- 4. Push the unit forward. Make sure the gearbox is in neutral.
- 5. To align the **adjuster nut** with the hole in the **shifter yoke**, turn the **adjuster nut**.
- 6. Connect the adjuster nut to the shifter yoke.
- 7. Make sure the NEUTRAL position on the shift lever matches neutral on the gearbox.



MAINTENANCE FREE BATTERY

HOW TO REMOVE THE BATTERY

To charge or clean the **battery**, remove the **battery** from the unit as follows.



WARNING: To prevent sparks, disconnect the black battery cable from the negative (-) terminal before you disconnect the red cable.

WARNING: The battery contains sulfuric acid which is harmful to the skin, eyes and clothing. If the acid gets on the body or clothing, wash with water.

- 1. Disconnect the **black cable** from the negative (-) terminal (Figure 22).
- 2. Disconnect the red cable from the positive (+) terminal.
- 3. To disconnect the **battery retainer** from the **battery tray**, push in on the lower end of the battery retainer.
- 4. Remove the **battery** from the right side of the unit.

HOW TO CLEAN THE BATTERY

- 1. Remove the battery.
- 2. Wash the **battery** with a solution of one gallon of water and four tablespoons of baking soda (sodium bicarbonate). Make sure the solution does not get into the battery cells.
- 3. Clean the **terminals** and the ends of the **cables** with a wire brush.
- 4. Install the battery.
- 5. To prevent corrosion, apply grease to the **battery terminals**.

HOW TO CHARGE THE BATTERY

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.

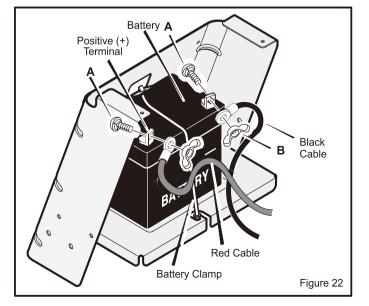
1. Before you charge the **battery**, remove the **battery**.

- 2. To charge the **battery**, use a 12 volt battery charger. Charge at a rate of 6 amperes for 1 hour.
- 3. Install the **battery**.



WARNING: To prevent sparks, fasten the red cable to the positive (+) terminal before you connect the black cable.

- 4. Fasten the **red cable** to the **positive (+) terminal** with the fasteners as shown.
- 5. Fasten the **black cable** to the negative (-) terminal with the fasteners as shown.



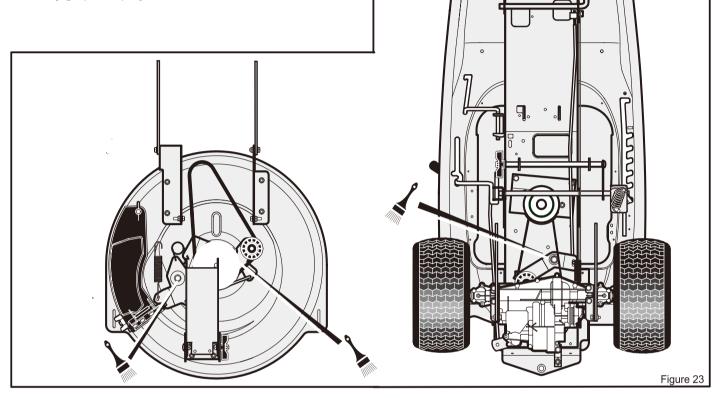
WHERE TO LUBRICATE



Apply grease with a brush to the areas shown.

Lubricate the areas shown with engine oil.

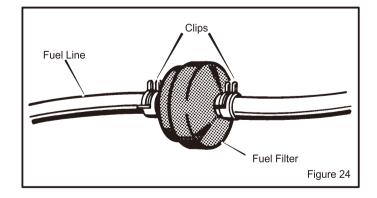
NOTE: Apply grease to the steering gear assembly. CAUTION: If the unit is operated in dry areas that have sand, use a dry graphite spray to lubricate the unit.



HOW TO CHECK THE FUEL FILTER

NOTE: Before you replace the fuel filter or the fuel line, the fuel tank must be empty.

If the **fuel filter** is dirty, the engine will run rough and have less performance. Remove the old filter (Figure 24). Replace the old filter with a new filter. Use an original equipment part. See an authorized service dealer in your area.



CHECK THE TIRES

Check the air pressure in the tires. Tires with too much air pressure will cause the unit to ride rough. Also, the wrong air pressure will keep the mower housing from cutting level. The correct air pressure is 14 PSI (1 BAR). F-030603C

HOW TO LEVEL THE MOWER HOUSING

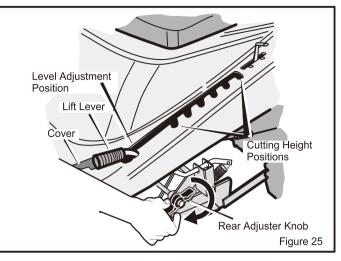
If the mower housing is level, the blade will cut easier and the lawn will look better.

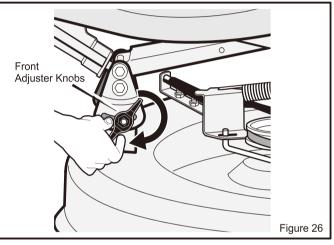


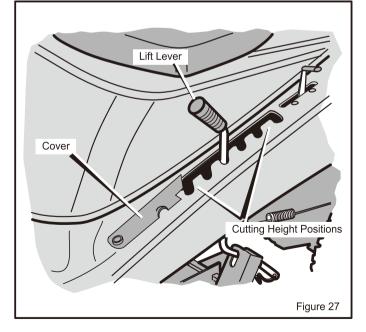
WARNING: Before you make an inspection, adjustment, or repair to the unit, disconnect the wire to the spark plug. Remove the spark plug wire to prevent the engine from starting by accident.

- 1. Make sure the unit is on a hard flat surface.
- 2. Check the air pressure in the tires. If the air pressure is incorrect, the mower housing will not cut level. Make sure the tires are inflated to 14 PSI. (1 BAR).
- 3. Open the **cover** (see Figure 25).
- 4. Move the **lift lever** to the LEVEL ADJUSTMENT position (see Figure 25).
- 5. Loosen the front and rear **adjuster knobs** (see Figure 25 and Figure 26). Make sure both sides of the mower housing are setting on a flat surface. Also, make sure the lift links and adjuster plates are loose and can easily move up or down.
- Tighten the front and rear adjuster knobs. Make sure the adjuster knobs are tight. If necessary, use a wrench to tighten the adjuster knobs. For plastic adjuster knobs, tighten to a torque of 7 foot pounds (9,5 N-m). For metal adjuster knobs, tighten to a torque of 10 foot pounds (13,5 N-m).
- 7. Raise the **lift lever** from the LEVEL ADJUSTMENT position to a CUTTING HEIGHT position (Figure 27).
- 8. Close the cover.
- 9. Mow for a short distance. If the height of cut is not level, repeat the above steps.

CAUTION: Do not operate with the mower housing in the LEVEL ADJUSTMENT position. If you operate in the LEVEL ADJUSTMENT position, the mower housing and blades can be damaged.







HOW TO REMOVE THE MOWER HOUSING

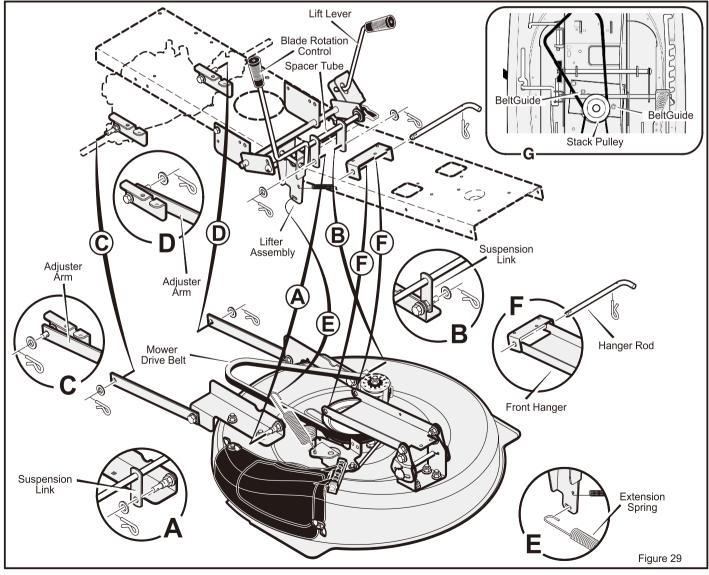
- 1. Move the **blade rotation control** to the DISENGAGE position.
- 2. Move the lift lever to the level adjustment position (Figure 28).

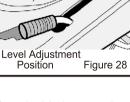
NOTE: Make sure the lift lever is locked in the LEVEL ADJUSTMENT position.

- 3. Remove the hair pins and the washers from the **rear suspension arms** (Figure 29). See il-lustrations "C" and "D".
- 4. Remove the hair pins and washers from the **suspension links**. See illustrations "A" and "B".
- 5. Disconnect the **extension spring** from the **blade control rod**. See illustration "E".
- 6. Disconnect the **front hanger** from the frame support. See illustration "F".
- 7. Remove the **mower drive belt** from the **stack pulley**. See illustration "G".
- 8. Pull the mower housing away from the right side of the unit.
- 9. To operate without the mower housing, move the lift lever to the TOP position.

HOW TO INSTALL THE MOWER HOUSING

- 1. Push the mower housing under the right side of the unit.
- 2. Put the **mower drive belt** around the **stack pulley**. Make sure the "V" side of the **mower drive belt** is against the **stack pulley**. Also, make sure the **mower drive belt** is not twisted.
- 3. Attach the **front hanger** to the frame support with the **hanger rod.** Fasten with the fasteners as shown. See illustration "F".
- 4. Make sure the **mower drive belt** is between the **stack pulley** and the two **belt guides**. See illustration "G".
- 5. Attach the **suspension links** to the **lifter assembly**. Fasten with the washers and hair pins. See illustrations "A" and "B".
- 6. Attach the **rear suspension arms** to the suspension brackets. Fasten with the washers and hair pins. See illustrations "C" and "D".
- 7. Attach the **extension spring** to the **blade control rod**. See illustration "E".
- 8. Move the **blade rotation control** to the ENGAGE position. Make sure the **mower drive belt** is inside all the **belt guides** and is also below the **spacer tube.**
- 9. Make sure the mower housing is level. See the instructions on "How To Level The Mower Housing".
- 10. Check the operation of the **blade rotation control**. See the instructions on "How To Adjust The Blade Rotation Control".





HOW TO REPLACE THE MOTION DRIVE BELT

REMOVAL

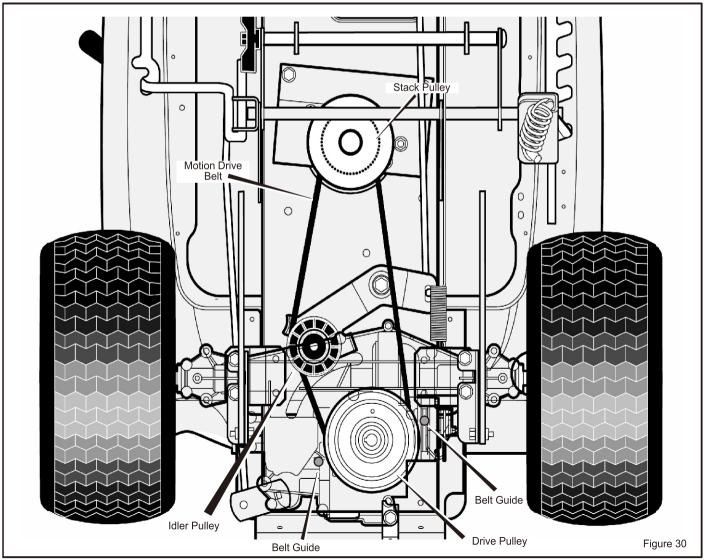
- 1. Remove the mower housing. See the instructions on "How To Remove The Mower Housing".
- 2. Completely push the pedal forward and engage the parking brake.
- 3. Remove the idler pulley (Figure 30).
- 4. Loosen the **belt guides** next to the **drive pulley.**
- 5. Remove the motion drive belt from the drive pulley.
- 6. Remove the **motion drive belt** from the **stack pulley**. A correct replacement part or assistance is available from an Authorized Service Center in your area.

INSTALLATION

1. Slide the **motion drive belt** between the **stack pulley** and the **belt guides** (Figure 30). Install the **motion drive belt** on the

top pulley of the ${\it stack}\ {\it pulley}.$ Make sure the "V" side of the belt is against the pulley.

- 2. Install the end of the **motion drive belt** around the **drive pulley.**
- 3. Make sure the **motion drive belt** is inside of the **belt guides** next to the **drive pulley.** Tighten the **belt guides.**
- 4. Put the belt around the **idler pulley**. Assemble the **idler pulley**. Fasten the **idler pulley** with the hex nut. Make sure the "V" side of the belt is against the **idler pulley**. Also, make sure the belt is not twisted.
- Check the routing of the motion drive belt. Make sure the motion drive belt is installed correctly on the idler pulley. Make sure the motion drive belt is inside all the belt guides.
- 6. Before you use the unit, check the adjustment of the clutch. See the instructions "How To Check And Adjust The Clutch".
- 7. Install the mower housing. See the instructions "How To Install The Mower Housing".



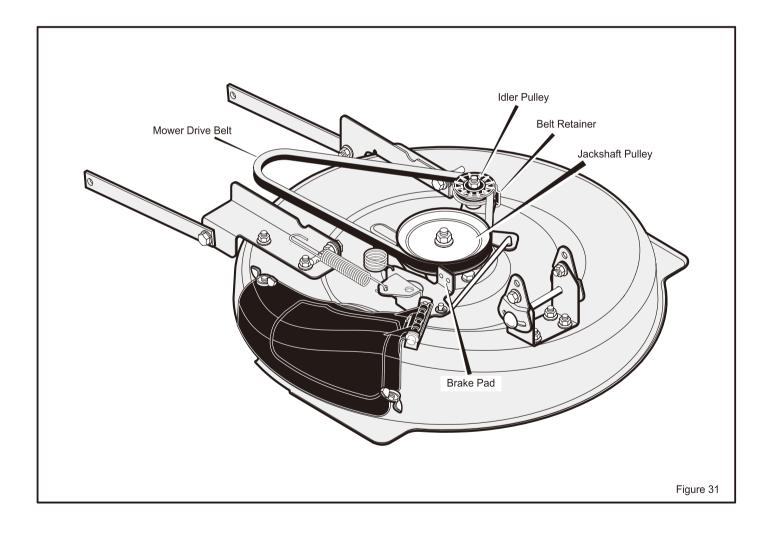
HOW TO REPLACE THE MOWER DRIVE BELT

- 1. Remove the mower housing. See the instructions on "How To Remove The Mower Housing".
- 2. Pull the **belt retainer** away from the **idler pulley** and remove the **mower drive belt** (Figure 31).
- 3. Pull the **brake pad** away from the **jackshaft pulley** and remove the **mower drive belt**.

NOTE: Replace the mower drive belt with an original equipment belt from an authorized service center.

4. Install the new **mower drive belt**. Pull the **brake pad** away from the **jackshaft pulley**. Put the **mower drive belt** around the **jackshaft pulley**.

- 5. Pull the **belt retainer** away from the **idler pulley**. Put the **mower drive belt** around the **idler pulley**.
- 6. Make sure the "V" side of the **mower drive belt** is against the **jackshaft pulley** and the **idler pulley**.
- 7. Install the mower housing. See the instructions on "How To Install The Mower Housing".
- 8. Before you mow, check the blade rotation control. See the instructions on "How To Adjust The Blade Rotation Control".



HOW TO INSTALL THE WHEELS

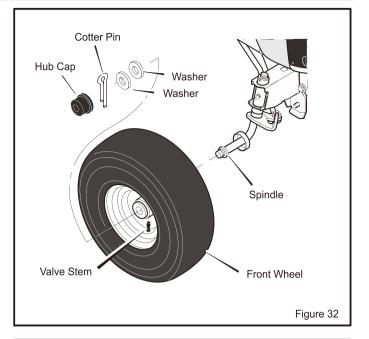
If the wheels must be removed for service, make sure they are installed as follows.

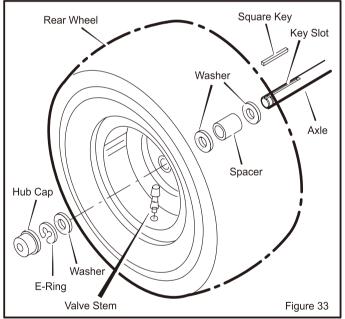
Front Wheel

- 1. Make sure the **valve stem** is to the outside of the tractor. Slide the **front wheel** on the **spindle** (See Figure 32).
- 2. Fasten the **front wheel** with **washer** and **cotter pin**. Bend the ends of the **cotter pin** apart to keep the **front wheel** on the **spindle**.
- 3. If your model has **hub caps**, install the **hub caps**. Make sure the **washer** hold the **hub caps** in place.

Rear Wheel

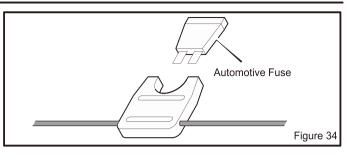
- 1. Install the **washers** and **spacer** onto the **axle** as shown in Figure 33.
- 2. Mount the square key in the key slot (See Figure 33).
- 3. Make sure the **valve stem** is to the outside of the tractor. Align the slot in the **rear wheel** with the **square key**. Slide the **rear wheel** on the **axle**.
- 4. Fasten the rear wheel with washer and e-ring.
- 5. If your model has **hub caps**, install the **hub caps**. Make sure the **washer** hold the **hub caps** in place.





HOW TO REPLACE THE FUSE

If the fuse is blown, the engine will not start. The location of the fuse is next to the battery. Remove the fuse and replace with a automotive fuse (Figure 34).



HOW TO CLEAN THE MOWER HOUSING



WARNING: Before you clean the mower housing, stop the engine and disconnect the wire to the spark plug.

Grass and other debris on top of the mower housing can keep the belt from working correctly. For safety and correct operation,

frequently clean the top of the mower housing. Remove grass and debris from around the pulleys and other moving parts.

- 1. Move the lever for the blade rotation control to the ENGAGE position.
- 2. Clean the top of the mower housing.
- 3. Move the lever for the blade rotation control to the DISENGAGE position.
- 4. Again clean the top of the mower housing.
- 5. After you cut the grass, clean the bottom of the mower housing.

STORAGE (over 30 days)

At the end of each year, prepare the unit for storage as follows.

THE ENGINE

For storage information, see the the engine manufacturer's instructions.

THE BATTERY

- 1. Remove the battery.
- 2. Clean the battery terminals of any deposits.
- 3. Charge the battery. See the instructions on "How To Prepare And Charge The Battery".
- 4. Store the battery in a cool, dry place.

NOTE: After a long time in storage, charge the battery.

THE FUEL SYSTEM



WARNING: Do not drain the gasoline inside a building or near a fire. Do not smoke because the fumes from the fuel can cause an explosion.

- 1. Start the engine.
- 2. Run the engine until the fuel tank and the carburetor are out of fuel and the engine stops.
- 3. After storage, make sure you use fresh fuel.

CLEAN THE UNIT

- 1. Clean the dirt and grass from the engine.
- 2. Clean the mower housing.

LUBRICATE THE UNIT

See the "Lubrication" instructions in this book.

TROUBLE SHOOTING CHART

PROBLEM: The engine will not start.

- 1. Follow the steps, "How To Start The Engine" in this book.
- 2. Electric-Start Models: Clean the battery terminals. Tighten the cables.
- 3. Drain the fuel tank. Clean the fuel line. Replace the fuel filter.
- 4. Remove the spark plug(s). Move the throttle to the SLOW position. Turn the ignition key to the ON position. Try to start the engine several times. Install the spark plug.
- 5. Replace the spark plug.
- 6. Adjust the carburetor.

PROBLEM: The engine will not turn over.

- 1. Follow the steps, "How To Start The Engine" in this book.
- 2. Electric-Start Models: Check the level of the acid in the battery. If needed, add water. Charge the battery.
- 3. Replace the fuse.
- 4. Check the wiring harness for damage or a loose connection. Repair the damaged wire.
- 5. Electric-Start Models: replace the solenoid. Recoil-Start Models: replace the module.

PROBLEM: The engine is difficult to start.

- 1. Adjust the carburetor.
- 2. Replace the spark plug.
- 3. Replace the fuel filter.

PROBLEM: The engine does not run smooth or has a loss of power.

- 1. Check the oil.
- 2. Clean the air filter.
- 3. Clean the air screen.
- 4. Replace the spark plug.
- 5. The engine is working too hard. Use a lower gear.
- 6. Adjust the carburetor.
- 7. Replace the fuel filter.

PROBLEM: The engine does not run smooth at fast speed.

- 1. Replace the spark plug.
- 2. Adjust the throttle control.
- 3. Clean the air filter.
- 4. Replace the fuel filter.

PROBLEM: The engine stops when the blades are engaged.

- 1. To activate the seat sensor, always sit in the middle of the seat.
- 2. Check the wiring harness for damage or a loose connection. Repair the damaged wire.

PROBLEM: On slopes, the engine stops.

- 1. Mow up and down slopes. Never mow across a slope.
- 2. To activate the seat sensor, always sit in the middle of the seat.

PROBLEM: The engine will not idle.

- 1. Replace the spark plug.
- 2. Clean the air filter.
- 3. Adjust the carburetor.
- 4. Adjust the throttle control.
- 5. Drain the fuel tank. Clean the fuel line. Replace the fuel filter. F-030603C

PROBLEM: A hot engine causes a decrease in power.

- 1. Clean the air screen.
- 2. Check the oil.
- 3. Adjust the carburetor.
- 4. Replace the fuel filter.

PROBLEM: Excessive vibration.

- 1. Replace the blade.
- 2. Check for loose engine bolts.
- 3. Decrease the air pressure in the tires.
- 4. Adjust the carburetor.
- 5. Check for a damaged belt or damaged pulley. Replace the damaged parts.

PROBLEM: The grass does not discharge correctly.

- 1. Stop the engine. Clean the mower housing.
- 2. Raise the height of cut.
- 3. Replace or sharpen the blade(s).
- 4. Move the shift lever to a slower speed.
- 5. Move the throttle control to the FAST position.
- 6. Replace the spring for the blade idler.

PROBLEM: The mower housing does not cut level.

- 1. Check the air pressure in the tires.
- 2. Adjust the level of the mower housing.
- Check the front axle. If the front axle does not freely pivot, loosen the axle bolt(s).

PROBLEM: The mower blades will not rotate.

- 1. Check the mower drive belt. Make sure the belt is installed correctly.
- 2. Replace the mower drive belt.

PROBLEM: The unit will not move when the clutch is engaged.

- 1. Check the motion drive belt. Make sure the belt is installed correctly.
- 2. Adjust the clutch.
- 3. Replace the motion drive belt.

PROBLEM: The unit moves slower or stops when the clutch is engaged.

- 1. Adjust the clutch.
- 2. Replace the motion drive belt.

PROBLEM: When the clutch/brake pedal is released, belt noise can be heard.

- 1. Temporary belt noise does not change the operation of the unit. If belt noise is continuous, check the routing of the belt. Make sure the belt is inside all belt guides.
- 2. If the noise is continuous, adjust the clutch.

PROBLEM: The rear wheels spin over uneven terrain.

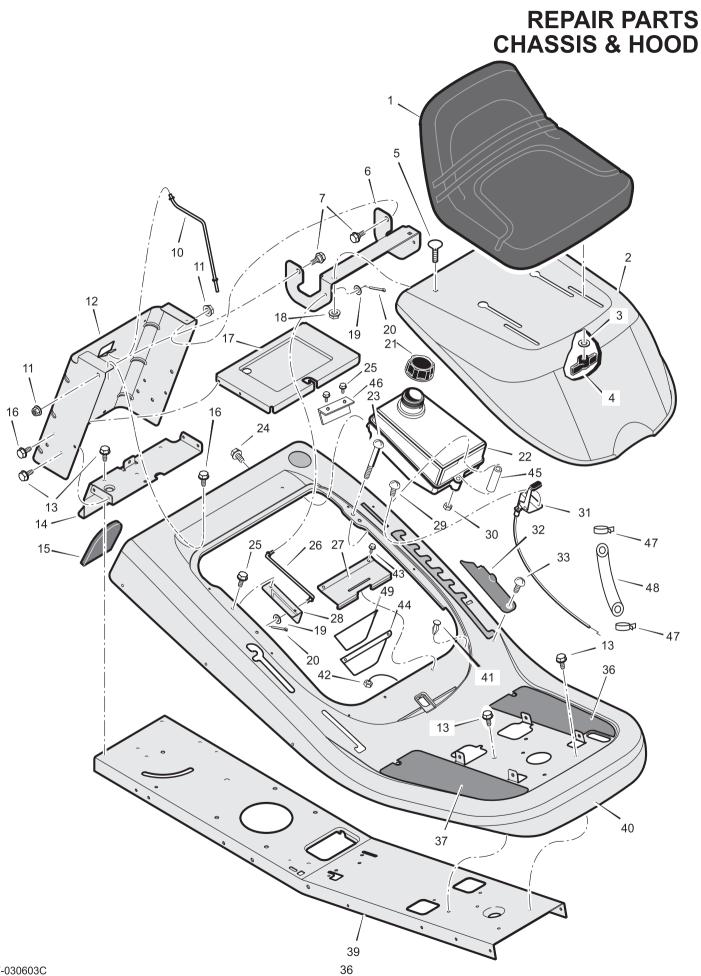
1. Check the front axle. If the front axle does not freely pivot, loosen the axle bolt(s).

PROBLEM: The transaxle is difficult to shift between gears with the engine running and the clutch depressed.

- 1. Check the clutch adjustment to make sure the belt stops when the clutch pedal is depressed with the transaxle in (N) neutral.
- 2. Check the belt guides around the transaxle drive pulley. Make sure the belt guides do not touch the pulley.

HOW TO ORDER REPAIR PARTS

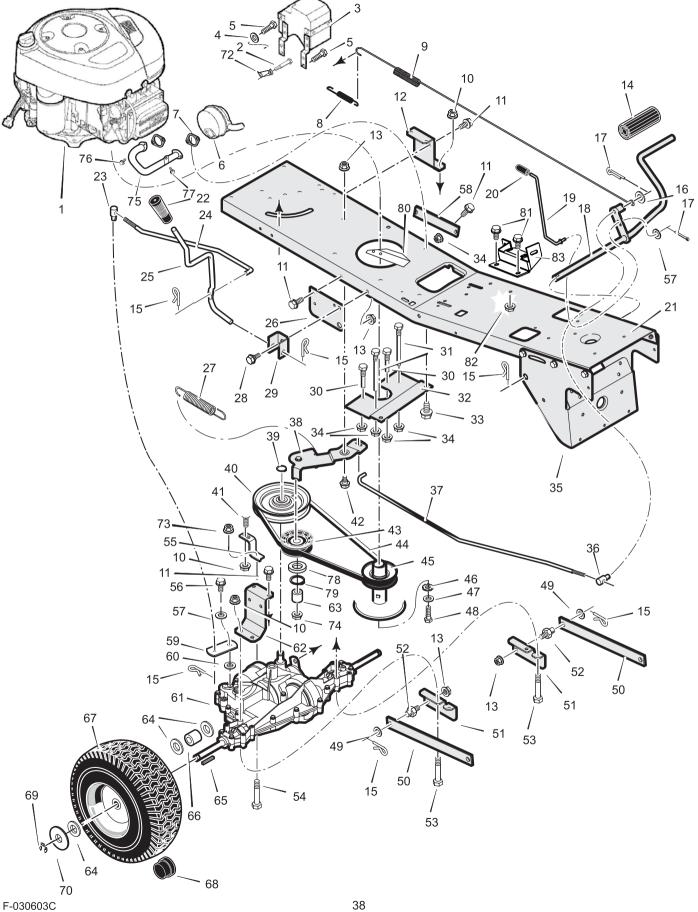
Only use a factory repair part. Repair parts, except for the engine or the transmission, are available from the store where the unit was purchased, a service shop recommended by the store, or an authorized service shop found in the yellow pages of the telephone directory. If you cannot get a repair part 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.



REPAIR PARTS CHASSIS & HOOD

Key No.	Description	Part No.	Key No.	Description	Part No.
1	Seat	690566	26	Rod, Hood Prop	1401110
2	Hood	1401027E700	27	Spring, Seat Deck	1401282
3	Washer	17x47	28	Bracket, Prop Rod	1401056E701
4	Bolt, Wing	1001054	29	Screw	26x201
5	Bolt, Carriage	2x53	30	Nut, NY-Lock	15x116
6	Bracket, Hinge	1401036E701	31	Control, Throttle	1401248
7	Bolt, Shoulder	9x29	32	Cover, Detent (Black)	1401084
10	Rod, Battery	1401113	33	Bolt, Shoulder	9x47
11	Nut, Flange	15x84	36	Footmat, Left (Black)	1401229
12	Plate, Rear	1401025E701	37	Footmat, Right (Black)	1401228
13	Screw	26x249	39	Frame	1401256E701
14	Plate, Hitch	1401050E701	40	Deck, Seat	1401026E700
15	Cover	1401086	41	Bumper	94744
16	Screw	26x263	42	Nut	15x116
17	Tray, Battery	1401076E701	43	Screw	25x2
18	Nut, Flange	15x79	44	HEAT SHIELD	1401401MA
19	Washer	17x37	45	SPACER, TANK FUEL	1401403
20	Pin, Cotter	30x20	46	BRACKET, TANK FUEL	1401410E701
21	Cap, Fuel Tank	92317	47	HOSE CLAMP	1401330
22	Tank, Fuel	1401240	48	FUEL LINE6000"/RL	50
23	Screw	6x111	49	Heat insulation	CJ1401660
24	Screw	26x253		Book, Instruction	F-030603C
25	Screw	26x263			

REPAIR PARTS MOTION DRIVE



REPAIR PARTS MOTION DRIVE

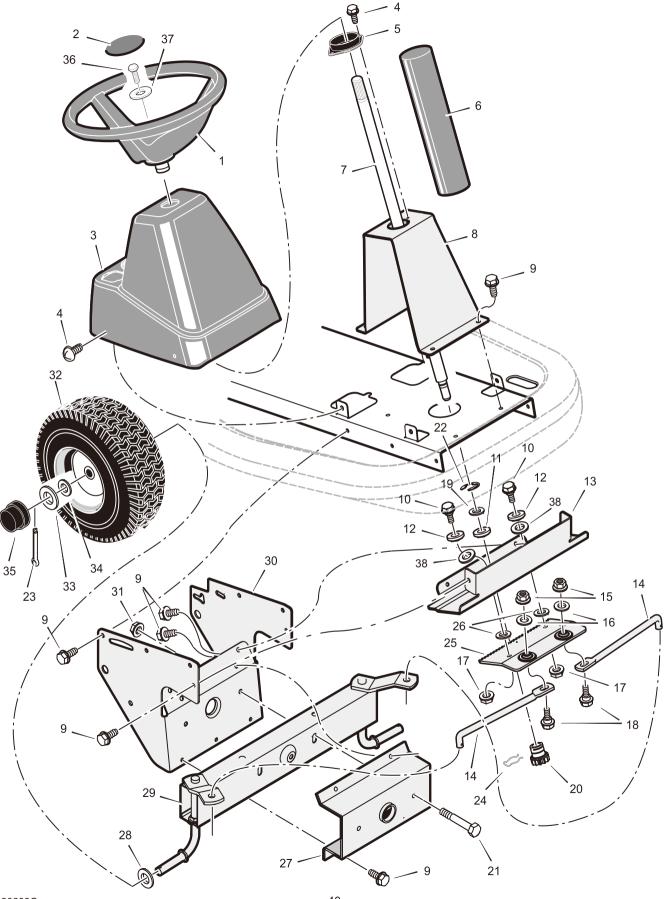
Key No.	Description	Part No.	Key No.	Description	Part No.
1	Engine		43	Pulley, Idler	690410
2	Bolt, Hex	01x134	44	Belt, Motion Drive	37x110
3	Shield Assembly, Heat	1401207	45	Pulley, Split Stack	1401066
4	Lockwasher	018x32	46	Washer, Star	019x35
5	Screw	M6X20	47	Washer	17x170
6	Muffler	1401251	48	Bolt, Hex	01x140
7	Gasket, Muffler	91309	49	Washer	17x102
8	Spring, Extension	165x75	50	Arm, Rear	1401031E701
9	Spring, Extension	165x148	51	Bracket, Rear Hanger	1401039
10	Nut	015x88	52	Pin, Threaded Shoulder	94067
11	Screw	26x249	53	Bolt, Hex	1x155
12	Bracket, Left Transaxle	1401042	54	Bolt	1x120
13	Nut, Flange	015x84	55	Bracket, Torque Reactor	1401052E701
14	Cover, Pedal	21544	56	Screw	06x105
15	Pin, Cotter	0031x4	57	Washer, Shift Yoke	017x38
16	Washer	017x53	58	Support, Frame	1401260E701
17	Pin, Cotter	030x20	59	Yoke, Shift	1401093
18	Pedal Assembly	1401127E701	60	Washer	17x148
19	Rod, Parking Brake	1401112	61	Transaxle	1401091
20	Grip, Parking Brake Rod	91079	62	Bracket, Right Transaxle	1401268
21	Frame	1401256E701	63	Spacer	690369
22	Grip, Shift Lever	92697	64	Washer	17x160
23	Nut, Adjusting	1401148	65	Key, Square	056534
24	Link, Shift	1401122	66	Spacer, Rear Wheel	1401103
25	Lever, Shift	1401111	67	Wheel, Rear –15"	1401290
26	Bracket, Lift Pivot	1401032	68	Cap, Hub	094618
27	Spring, Extension	165x147	69	E-Ring	0011x3
28	Bolt, Shoulder	009x73	70	Washer	17x195
29	Bracket, Pivot	1401043	72	Lock, Screw	092378
30	Guide, Short Belt	1401104	73	Nut	15*79
31	Guide, Long Belt	1401105	74	Nut	15*98
32	Plate, Belt Guide	1401057	75	Tube, Exhaust	1401402E703
33	Bolt	25x7	76	Screw	6*103
34	Nut, Flange	15x79	77	Screw	26*263
35	Bracket, Support	1401059	78	Insert - Bearing	740244
36	Nut, Adjusting	94815	79	Bearing	43846
37	Rod, Clutch	1401078	80	Heat Shield	1401396
38	Clutch Arm Assembly	1401128	81	Bolt	26x267
39	Ring, Retainer	11x7	82	Nut	M6
40	Pulley, Drive	1401077D801	83	Tube Bracket	CJ300004
41	Bolt, Carriage	002x53	05	TUDE DIACKEL	0000004
42	Bolt, Shoulder	009x73			

* When you order a tire, make sure to give the brand name of the tire so that the tread pattern on the tire will match.

** For information on Replacement Parts see the Central Parts Distributor in your area.

F-030603C

REPAIR PARTS STEERING



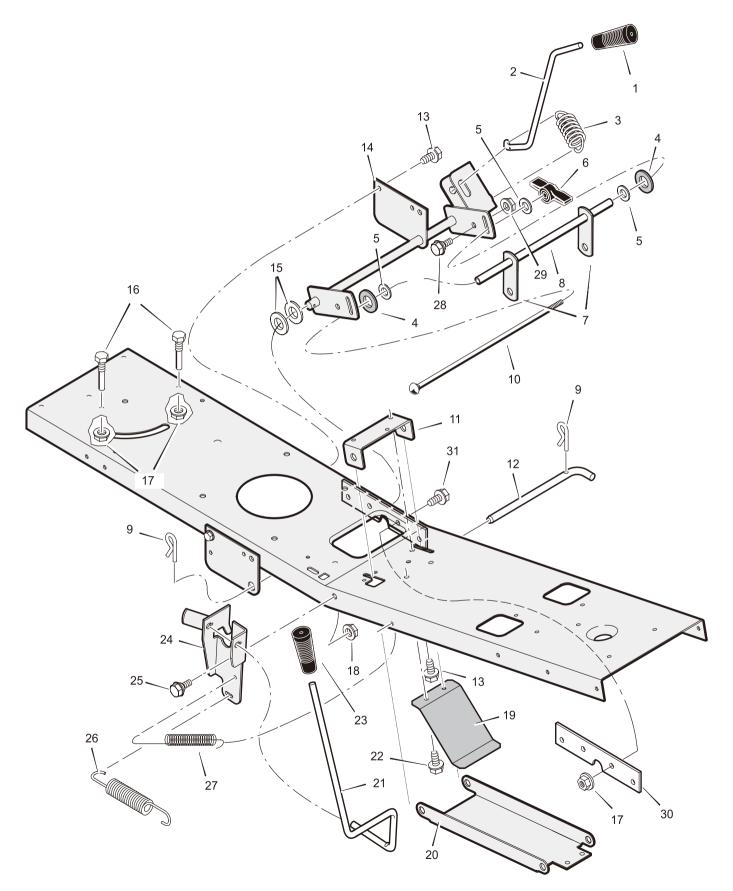
F-030603C

REPAIR PARTS STEERING

Key No.	Description	Part No.	Key No.	Description	Part No.
1	Wheel, Steering (Black)	95185	20	Gear, Pinion	1401099
2	Insert, Steering	711326	21	Bolt, Hex	1x146
3	Console, Low (Black)	1401044	22	E-Ring, Retainer	11x28
	Console, Low (Grey)	1401045	23	Pin, Cotter	30x35
4	Screw	26x270	24	Retainer, Spring	094131
5	Bearing, Upper Steering	1401090	24	Retainer, Spring	094131
6	Tube, Steering (Black)	1401226	25	Rack, Steering	1401046
	Tube, Steering (Grey)	1401227	26	Washer	17x201
7	Shaft, Steering	1401100	27	Bracket, Axle Front	1401060
8	Support, Steering	1401055E701	28	Washer	17x157
9	Screw	26x249	29	Axle & Spindle Assembly	1401250
10	Bolt, Shoulder	9x401	30	Bracket, Support	1401059
11	Bearing, Lower Steering	1401098	31	Nut, Flange	15x118
12	Roller	1401420	32	Wheel, Front	1401289
13	Plate, Gear Mounting	1401058	33	Washer	17x197
14	Link, Drag	1401123	34	Washer	17x157
15	Nut, Flange	15x84	35	Cap, Hub	94618
16	Washer	17x104	36	Bolt	25x3
17	Nut, Flange	15x88	37	Washer	17x146
18	Bolt, Hex	1x111	38	Washer	17x401
19	Washer	17x118			

* When you order a tire, make sure to give the brand name of the tire so that the tread pattern on the tire will match.

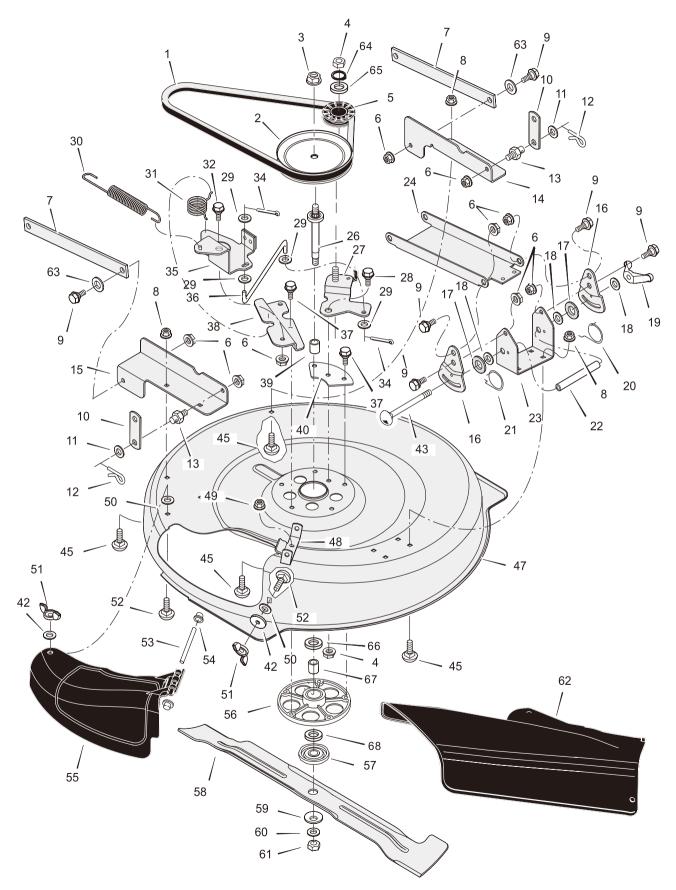
REPAIR PARTS MOWER HOUSING SUSPENSION



REPAIR PARTS MOWER HOUSING SUSPENSION

Key No.	Description	Part No.	Key No.	Description	Part No.
1	Grip, Lift Lever	92697	17	Nut, Flange	15x79
2	Lever, Lift	1401117	18	Nut, Flange	15x84
3	Spring, Extension	165x154	19	Spring, Leaf	1401147
4	Pad, Friction	94137	20	Hanger, Front	1401040
5	Washer	17x45	21	Lever, PTO	1401116
6	Wingnut	95004	22	Screw	26x263
7	Link, Lift	1401033E701	23	Grip, PTO	94198
8	Tube, Spacer	1401096	24	Bracket, PTO	1401199E701
9	Pin, Hair	31x4	25	Bolt, Shoulder	9x42
10	Bolt, Carriage	2x93	26	Spring, Extension	165x157
11	Bracket, Front Hanger Pivot	1401030E701	27	Spring, Extension	165x92
12	Pin, Front Hanger	1401118	28	Bolt, Shoulder	9x58
13	Screw	26x249	29	Nut	15x84
14	Arm Assembly, Lifter	1401262E701	30	Plate, Reinforcement	1401260
15	Washer	17x206	31	Screw	26x267
16	Screw, Guide	93349			

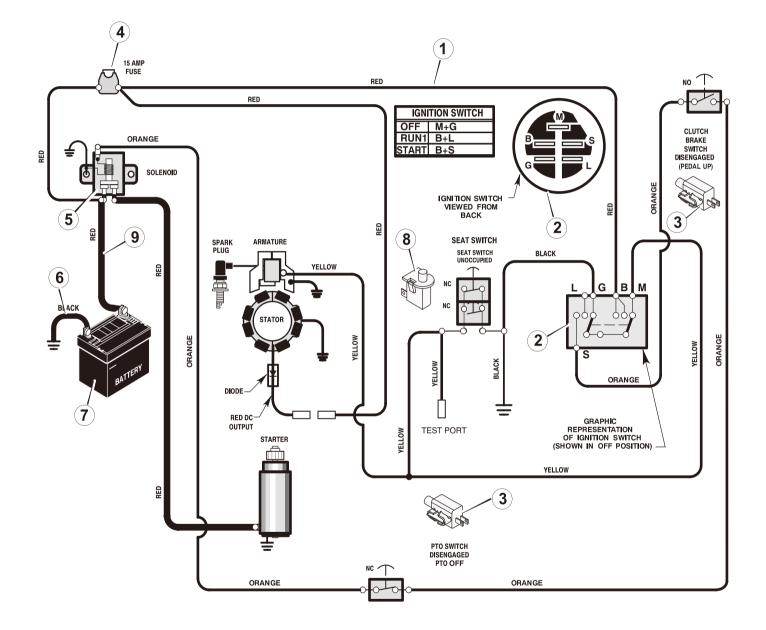
REPAIR PARTS MOWER HOUSING



REPAIR PARTS MOWER HOUSING

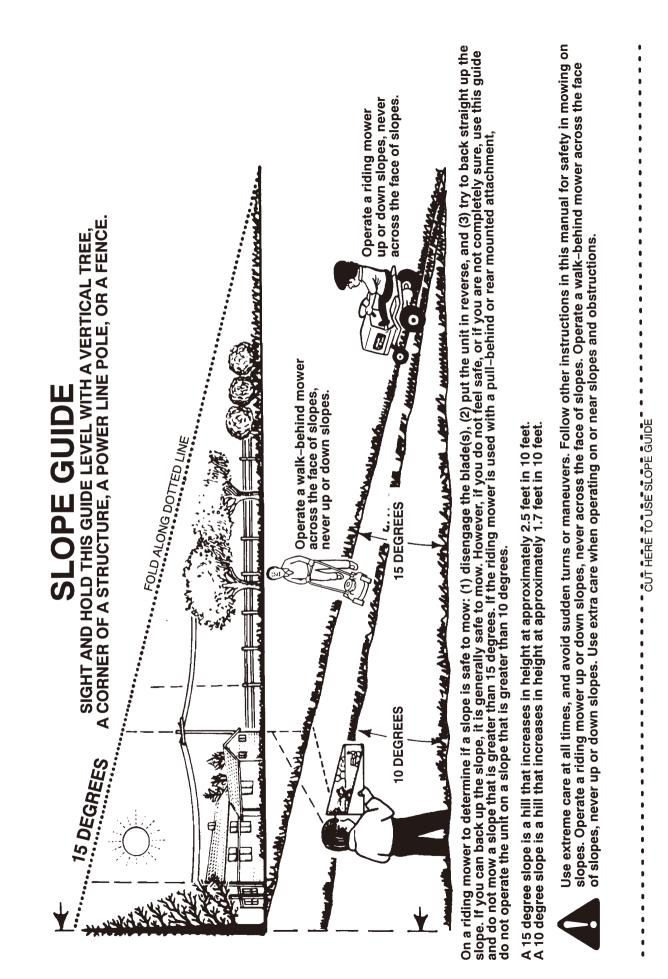
1Belt, Blade Drive37x11136Link, Idler Arm14011912Pulley, Input140109237Bolt25x73Locknut15x12138Bracket, Brake Mounting14010524Nut, Flange15x9839Spacer, Jackshaft14010945Pulley, Idler140125240Plate, Idler Mounting1401259Z6Nut, Flange15x8442Washer19x457Arm, Rear140103143Bolt, Carriage25x39Bolt, Shoulder95x5847Housing, Blade140102810Link, Lift140103348Hinge, Mulching Cover140110811Washer17x10249Nut, Flange25x7612Pin, Hair31x450Nut, Speed28x7613Pin, Threaded Shoulder9406751Wingnut14x8614Bracket, Left Rear140103753Rod, Chute Deflector9176716Plate, Adjustment140103854Cap, Push28x2317Pad, Friction16x4357Adapter, Blade140108018Washer17x45-Cover, Mulch (Black)140108719Wingnut9500456Madrel Housing14017520Spring, Right Torsion166x4258Blade140108721Tube, Spacer140103760Washer17x16622Tube, Spacer1401026701 </th <th>Key No.</th> <th>Description</th> <th>Part No.</th> <th>Key No.</th> <th>Description</th> <th>Part No.</th>	Key No.	Description	Part No.	Key No.	Description	Part No.
3 Locknut 15x121 38 Bracket, Brake Mounting 1401024 4 Nut, Flange 15x98 39 Spacer, Jackshaft 1401034 5 Pulley, Idler 1401252 40 Plate, Idler Mounting 1401252 Z 6 Nut, Flange 15x84 42 Washer 19x45 7 Arm, Rear 1401031 43 Bolt, Carriage 2x94 8 Nut, Flange 15x79 45 Bolt, Carriage 2x53 9 Bolt, Shoulder 9x58 47 Housing, Blade 140102 10 Link, Lift 1401033 48 Hinge, Mulching Cover 1401106 11 Washer 17x102 49 Nut, Flange 28x76 12 Pin, Threaded Shoulder 94067 51 Wingnut 14x86 14 Bracket, Right Rear 1401047 52 Bolt, Carriage 2x74 15 Bracket, Right Rear 1401047 55 Cover, Mulch (Black) 1401080	1	Belt, Blade Drive	37x111	36	Link, Idler Arm	1401119
4 Nut, Flange 15x98 39 Spacer, Jackshaft 1401094 5 Pulley, Idler 1401252 40 Plate, Idler Mounting 1401259 Z 6 Nut, Flange 15x84 42 Washer 19x45 7 Arm, Rear 1401031 43 Bolt, Carriage 2x53 9 Bolt, Shoulder 9x58 47 Housing, Blade 1401028 10 Link, Lift 1401033 48 Hinge, Mulching Cover 1401108 11 Washer 17x102 49 Nut, Flange 28x76 12 Pin, Hair 31x4 50 Nut, Speed 28x76 13 Pin, Threade Shoulder 94067 51 Wingnut 14x86 14 Bracket, Left Rear 1401047 52 Bolt, Carriage 2x74 15 Bracket, Right Rear 1401033 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401021 <td< td=""><td>2</td><td>Pulley, Input</td><td>1401092</td><td>37</td><td>Bolt</td><td>25x7</td></td<>	2	Pulley, Input	1401092	37	Bolt	25x7
5 Pulley, Idler 1401252 40 Plate, Idler Mounting 1401253 Z 6 Nut, Flange 15x84 42 Washer 19x45 7 Arm, Rear 1401031 43 Bolt, Carraige 2x54 8 Nut, Flange 15x79 45 Bolt, Carraige 2x53 9 Bolt, Shoulder 9x58 47 Housing, Blade 1401028 10 Link, Lift 1401033 48 Hinge, Mulching Cover 1401106 11 Washer 17x102 49 Nut, Flange 28x76 13 Pin, Hair 31x4 50 Nut, Speed 28x76 14 Bracket, Left Rear 1401047 52 Bolt, Carriage 2x74 15 Bracket, Right Rear 1401038 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401027 18 Washer 17x45 Cover, Mulch (Grey) 140127 19	3	Locknut	15x121	38	Bracket, Brake Mounting	1401052
Arm, Rear 15x84 42 Washer 19x45 7 Arm, Rear 1401031 43 Bolt, Carraige 2x94 8 Nut, Flange 15x79 45 Bolt, Carriage 2x53 9 Bolt, Shoulder 9x58 47 Housing, Blade 1401028 10 Link, Lift 1401033 48 Hinge, Mulching Cover 1401106 11 Washer 17x102 49 Nut, Flange 15x88 12 Pin, Hair 31x4 50 Nut, Speed 28x76 13 Pin, Threaded Shoulder 94067 51 Wingnut 14x86 14 Bracket, Left Rear 1401033 53 Rod, Chute Deflector 91767 15 Bracket, Right Rear 1401036 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401031 18 Washer 17x45 - Cover, Mulch (Grey) 1401217 19 Wingnut <td>4</td> <td>Nut, Flange</td> <td>15x98</td> <td>39</td> <td>Spacer, Jackshaft</td> <td>1401094</td>	4	Nut, Flange	15x98	39	Spacer, Jackshaft	1401094
Arm, Rear 1401031 43 Bolt, Carraige 2x94 8 Nut, Flange 15x79 45 Bolt, Carriage 2x53 9 Bolt, Shoulder 9x58 47 Housing, Blade 1401028 10 Link, Lift 1401033 48 Hinge, Mutching Cover 1401106 11 Washer 17x102 49 Nut, Speed 28x76 12 Pin, Hair 31x4 50 Nut, Speed 28x76 13 Pin, Threaded Shoulder 94067 51 Wingnut 2x74 14 Bracket, Left Rear 1401033 53 Rod, Chute Deflector 91767 15 Bracket, Right Rear 1401038 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401030 18 Washer 17x45 Cover, Mulch (Grey) 1401275 19 Wingnut 95004 56 Mandrel Housing 1401037 20 Sp	5	Pulley, Idler	1401252	40	Plate, Idler Mounting	1401259 Z
Nut, Flange 15x79 45 Bolt, Carriage 2x53 9 Bolt, Shoulder 9x58 47 Housing, Blade 1401028 10 Link, Lift 1401033 48 Hinge, Mulching Cover 1401106 11 Washer 17x102 49 Nut, Flange 15x88 12 Pin, Hair 31x4 50 Nut, Speed 28x76 13 Pin, Threaded Shoulder 94067 51 Wingnut 14x86 14 Bracket, Left Rear 1401047 52 Bolt, Carriage 2x74 15 Bracket, Right Rear 1401235 53 Rod, Chute Deflector 91767 16 Plate, Adjustment 1401038 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401080 18 Washer 17x45 Cover, Mulch (Black) 1401079 19 Wingnut 95004 56 Mandrel Housing 1401079 21	6	Nut, Flange	15x84	42	Washer	19x45
9 Bolt, Shoulder 9x58 47 Housing, Blade 1401028 10 Link, Lift 1401033 48 Hinge, Mulching Cover 1401106 11 Washer 17x102 49 Nut, Flange 15x88 12 Pin, Hair 31x4 50 Nut, Speed 28x76 13 Pin, Threaded Shoulder 94067 51 Wingnut 14x86 14 Bracket, Left Rear 1401047 52 Bolt, Carriage 2x74 15 Bracket, Right Rear 1401038 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 14010217 19 Wingnut 95004 56 Mandrel Housing 1401275 20 Spring, Left Torsion 166x43 57 Adapter, Blade 1001035 21 Spring, Right Torsion 166x42 58 Blade 1401079 22 Tube, Spacer 1401040E701 61 Nut, Blade Mount 15x100 <	7	Arm, Rear	1401031	43	Bolt, Carraige	2x94
10 Link, Lift 1401033 48 Hinge, Mulching Cover 1401106 11 Washer 17x102 49 Nut, Flange 15x88 12 Pin, Hair 31x4 50 Nut, Speed 28x76 13 Pin, Threaded Shoulder 94067 51 Wingnut 14x86 14 Bracket, Left Rear 1401047 52 Bolt, Carriage 2x74 15 Bracket, Right Rear 1401038 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401080 18 Washer 17x45 Cover, Mulch (Black) 1401217 19 Wingnut 95004 56 Mandrel Housing 1401275 20 Spring, Left Torsion 166x43 57 Adapter, Blade 1001035 21 Spring, Right Torsion 166x42 58 Blade 1401079 22 Tube, Spacer 1401040E701 61 Nut, Blade Mount 15x100	8	Nut, Flange	15x79	45	Bolt, Carriage	2x53
11 Washer 17x102 49 Nut, Flange 15x88 12 Pin, Hair 31x4 50 Nut, Speed 28x76 13 Pin, Threaded Shoulder 94067 51 Wingnut 14x86 14 Bracket, Left Rear 1401047 52 Bolt, Carriage 2x74 15 Bracket, Right Rear 1401235 53 Rod, Chute Deflector 91767 16 Plate, Adjustment 1401038 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401080 18 Washer 17x45 Cover, Mulch (Grey) 1401217 19 Wingnut 95004 56 Mandrel Housing 1401037 20 Spring, Right Torsion 166x43 57 Adapter, Blade 1401079 21 Spring, Right Torsion 166x42 58 Blade 1401079 22 Tube, Spacer 1401037 60 Washer, Cup 17x165 <t< td=""><td>9</td><td>Bolt, Shoulder</td><td>9x58</td><td>47</td><td>Housing, Blade</td><td>1401028</td></t<>	9	Bolt, Shoulder	9x58	47	Housing, Blade	1401028
12 Pin, Hair 31x4 50 Nut, Speed 28x76 13 Pin, Threaded Shoulder 94067 51 Wingnut 14x86 14 Bracket, Left Rear 1401047 52 Bolt, Carriage 2x74 15 Bracket, Right Rear 1401235 53 Rod, Chute Deflector 91767 16 Plate, Adjustment 1401038 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401080 18 Washer 17x45 Cover, Mulch (Grey) 1401275 20 Spring, Left Torsion 166x43 57 Adapter, Blade 1001035 21 Spring, Right Torsion 166x42 58 Blade 1401079 22 Tube, Spacer 1401095 59 Washer, Cup 17x166 23 Bracket, Deck 14010402701 61 Nut, Blade Mount 15x100 24 Hanger, Front 1401258E701 Deflector, Chute (Grey) 1401218 24 Bolt, Shoulder 9x73 63 <t< td=""><td>10</td><td>Link, Lift</td><td>1401033</td><td>48</td><td>Hinge, Mulching Cover</td><td>1401106</td></t<>	10	Link, Lift	1401033	48	Hinge, Mulching Cover	1401106
13Pin, Threaded Shoulder9406751Wingnut14x8614Bracket, Left Rear140104752Bolt, Carriage2x7415Bracket, Right Rear140123553Rod, Chute Deflector9176716Plate, Adjustment140103854Cap, Push28x2317Pad, Friction9413755Cover, Mulch (Black)140108018Washer17x45Cover, Mulch (Grey)140121719Wingnut9500456Mandrel Housing140103520Spring, Left Torsion166x4357Adapter, Blade100103521Spring, Right Torsion166x4258Blade140107922Tube, Spacer140109559Washer, Cup17x16623Bracket, Deck1401040E70161Nut, Blade Mount15x10024Hanger, Front140105562Deflector, Chute (Black)140121825Shaft, Splined1401258E701Deflector, Chute (Grey)140121826Shaft, Shulder9x7363Washer17x12029Washer17x4764BEARING4384630Spring, Torsion166x4666BEARING 3/8-UPPER9228132Bolt, Shoulder9x7367BEARING SALOWER9228134Pin, Cotter30x2068BEARING 3/8-LOWER92282	11	Washer	17x102	49	Nut, Flange	15x88
14 Bracket, Left Rear 1401047 52 Bolt, Carriage 2x74 15 Bracket, Right Rear 1401235 53 Rod, Chute Deflector 91767 16 Plate, Adjustment 1401038 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401080 18 Washer 17x45 Cover, Mulch (Grey) 1401217 19 Wingnut 95004 56 Mandrel Housing 1401035 20 Spring, Left Torsion 166x43 57 Adapter, Blade 1001035 21 Spring, Right Torsion 166x42 58 Blade 1401079 22 Tube, Spacer 1401095 59 Washer, Cup 17x165 23 Bracket, Deck 1401040E701 61 Nut, Blade Mount 15x100 24 Hanger, Front 14010455 62 Deflector, Chute (Black) 1401081 27 Arm Assemnly, Idler 1401258E701 Deflecto	12	Pin, Hair	31x4	50	Nut, Speed	28x76
15 Bracket, Right Rear 1401235 53 Rod, Chute Deflector 91767 16 Plate, Adjustment 1401038 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401080 18 Washer 17x45 Cover, Mulch (Grey) 1401217 19 Wingnut 95004 56 Mandrel Housing 1401035 20 Spring, Left Torsion 166x43 57 Adapter, Blade 1001035 21 Spring, Right Torsion 166x42 58 Blade 1401079 22 Tube, Spacer 1401095 59 Washer, Cup 17x165 23 Bracket, Deck 1401040E701 61 Nut, Blade Mount 15x100 24 Hanger, Front 1401040E701 61 Nut, Blade Mount 15x100 25 Shaft, Splined 1401258E701 Deflector, Chute (Black) 1401218 26 Shaft, Shoulder 9x73 63 Washer	13	Pin, Threaded Shoulder	94067	51	Wingnut	14x86
16 Plate, Adjustment 1401038 54 Cap, Push 28x23 17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401080 18 Washer 17x45 Cover, Mulch (Grey) 1401217 19 Wingnut 95004 56 Mandrel Housing 1401275 20 Spring, Left Torsion 166x43 57 Adapter, Blade 1001035 21 Spring, Right Torsion 166x42 58 Blade 1401079 22 Tube, Spacer 1401095 59 Washer, Cup 17x166 23 Bracket, Deck 14010402701 60 Washer 17x165 24 Hanger, Front 1401040E701 61 Nut, Blade Mount 15x100 26 Shaft, Splined 14010455 62 Deflector, Chute (Black) 1401218 27 Arm Assemnly, Idler 1401258E701 Deflector, Chute (Grey) 1401218 28 Bolt, Shoulder 9x73 63 Washer	14	Bracket, Left Rear	1401047	52	Bolt, Carriage	2x74
17 Pad, Friction 94137 55 Cover, Mulch (Black) 1401080 18 Washer 17x45 Cover, Mulch (Grey) 1401217 19 Wingnut 95004 56 Mandrel Housing 1401275 20 Spring, Left Torsion 166x43 57 Adapter, Blade 1001035 21 Spring, Right Torsion 166x42 58 Blade 1401079 22 Tube, Spacer 1401095 59 Washer, Cup 17x166 23 Bracket, Deck 1401040E701 61 Nut, Blade Mount 15x100 24 Hanger, Front 1401040E701 61 Nut, Blade Mount 15x100 25 Shaft, Splined 1401258E701 Deflector, Chute (Black) 1401218 28 Bolt, Shoulder 9x73 63 Washer 17x120 29 Washer 17x47 64 BEARING 3/8-UPPER 92281 30 Spring, Torsion 166x46 66 BEARING 3/8-UPPER 9	15	Bracket, Right Rear	1401235	53	Rod, Chute Deflector	91767
18Washer17x45Cover, Mulch (Grey)140121719Wingnut9500456Mandrel Housing140127520Spring, Left Torsion166x4357Adapter, Blade100103521Spring, Right Torsion166x4258Blade140107922Tube, Spacer140109559Washer, Cup17x16623Bracket, Deck140103760Washer17x16524Hanger, Front140104E70161Nut, Blade Mount15x10026Shaft, Splined140106562Deflector, Chute (Black)140128127Arm Assemnly, Idler1401258E701Deflector, Chute (Grey)140121828Bolt, Shoulder9x7363Washer17x12029Washer165x15765INSERT-BEARING74024431Spring, Torsion166x4666BEARING 3/8-UPPER9228132Bolt, Shoulder9x7367BEARING SPACER(PUR)9090434Pin, Cotter30x2068BEARING 3/8-LOWER92282	16	Plate, Adjustment	1401038	54	Cap, Push	28x23
19 Wingnut 95004 56 Mandrel Housing 1401275 20 Spring, Left Torsion 166x43 57 Adapter, Blade 1001035 21 Spring, Right Torsion 166x42 58 Blade 1401079 22 Tube, Spacer 1401095 59 Washer, Cup 17x166 23 Bracket, Deck 1401037 60 Washer 17x165 24 Hanger, Front 1401040E701 61 Nut, Blade Mount 15x100 26 Shaft, Splined 1401258E701 Deflector, Chute (Black) 1401218 27 Arm Assemnly, Idler 1401258E701 Deflector, Chute (Grey) 1401218 28 Bolt, Shoulder 9x73 63 Washer 17x120 29 Washer 17x47 64 BEARING 43846 30 Spring, Extension 165x157 65 INSERT-BEARING 2281 31 Spring, Torsion 166x46 66 BEARING 3/8-UPPER 92281	17	Pad, Friction	94137	55	Cover, Mulch (Black)	1401080
20 Spring, Left Torsion 166x43 57 Adapter, Blade 1001035 21 Spring, Right Torsion 166x42 58 Blade 1401079 22 Tube, Spacer 1401095 59 Washer, Cup 17x166 23 Bracket, Deck 1401037 60 Washer 17x165 24 Hanger, Front 1401040E701 61 Nut, Blade Mount 15x100 26 Shaft, Splined 1401065 62 Deflector, Chute (Black) 1401081 27 Arm Assemnly, Idler 1401258E701 Deflector, Chute (Grey) 1401218 28 Bolt, Shoulder 9x73 63 Washer 17x120 29 Washer 17x47 64 BEARING 43846 30 Spring, Extension 165x157 65 INSERT-BEARING 740244 31 Spring, Torsion 166x46 66 BEARING 3/8-UPPER 92281 32 Bolt, Shoulder 9x73 67 BEARING SPACER(PUR) <td< td=""><td>18</td><td>Washer</td><td>17x45</td><td></td><td>Cover, Mulch (Grey)</td><td>1401217</td></td<>	18	Washer	17x45		Cover, Mulch (Grey)	1401217
21Spring, Right Torsion166x4258Blade140109522Tube, Spacer140109559Washer, Cup17x16623Bracket, Deck140103760Washer17x16524Hanger, Front1401040E70161Nut, Blade Mount15x10026Shaft, Splined140106562Deflector, Chute (Black)140108127Arm Assemnly, Idler1401258E701Deflector, Chute (Grey)140121828Bolt, Shoulder9x7363Washer17x12029Washer17x4764BEARING4384630Spring, Extension166x4666BEARING 3/8-UPPER9228132Bolt, Shoulder9x7367BEARING SPACER(PUR)9090434Pin, Cotter30x2068BEARING 3/8-LOWER9282	19	Wingnut	95004	56	Mandrel Housing	1401275
22Tube, Spacer140109559Washer, Cup17x16623Bracket, Deck140103760Washer17x16524Hanger, Front1401040E70161Nut, Blade Mount15x10026Shaft, Splined140106562Deflector, Chute (Black)140108127Arm Assemnly, Idler1401258E701Deflector, Chute (Grey)140121828Bolt, Shoulder9x7363Washer17x12029Washer17x4764BEARING4384630Spring, Extension165x15765INSERT-BEARING74024431Spring, Torsion166x4666BEARING 3/8-UPPER9228132Bolt, Shoulder9x7367BEARING SPACER(PUR)9090434Pin, Cotter30x2068BEARING 3/8-LOWER92282	20	Spring, Left Torsion	166x43	57	Adapter, Blade	1001035
23Bracket, Deck140103760Washer17x16524Hanger, Front140104DE70161Nut, Blade Mount15x10026Shaft, Splined140106562Deflector, Chute (Black)140108127Arm Assemnly, Idler1401258E701Deflector, Chute (Grey)140121828Bolt, Shoulder9x7363Washer17x12029Washer17x4764BEARING4384630Spring, Extension165x15765INSERT-BEARING74024431Spring, Torsion166x4666BEARING 3/8-UPPER9228132Bolt, Shoulder9x7367BEARING SPACER(PUR)9090434Pin, Cotter30x2068BEARING 3/8-LOWER92282	21	Spring, Right Torsion	166x42	58	Blade	1401079
24Hanger, Front1401040E70161Nut, Blade Mount15x10026Shaft, Splined140106562Deflector, Chute (Black)140108127Arm Assemnly, Idler1401258E701Deflector, Chute (Grey)140121828Bolt, Shoulder9x7363Washer17x12029Washer17x4764BEARING4384630Spring, Extension165x15765INSERT-BEARING74024431Spring, Torsion166x4666BEARING 3/8-UPPER9228132Bolt, Shoulder9x7367BEARING SPACER(PUR)9090434Pin, Cotter30x2068BEARING 3/8-LOWER92282	22	Tube, Spacer	1401095	59	Washer, Cup	17x166
26Shaft, Splined140106562Deflector, Chute (Black)140108127Arm Assemnly, Idler1401258E701Deflector, Chute (Grey)140121828Bolt, Shoulder9x7363Washer17x12029Washer17x4764BEARING4384630Spring, Extension165x15765INSERT-BEARING74024431Spring, Torsion166x4666BEARING 3/8-UPPER9228132Bolt, Shoulder9x7367BEARING SPACER(PUR)9090434Pin, Cotter30x2068BEARING 3/8-LOWER92282	23	Bracket, Deck	1401037	60	Washer	17x165
27Arm Assemnly, Idler1401258E701Deflector, Chute (Grey)140121828Bolt, Shoulder9x7363Washer17x12029Washer17x4764BEARING4384630Spring, Extension165x15765INSERT-BEARING74024431Spring, Torsion166x4666BEARING 3/8-UPPER9228132Bolt, Shoulder9x7367BEARING SPACER(PUR)9090434Pin, Cotter30x2068BEARING 3/8-LOWER92282	24	Hanger, Front	1401040E701	61	Nut, Blade Mount	15x100
28 Bolt, Shoulder 9x73 63 Washer 17x120 29 Washer 17x47 64 BEARING 43846 30 Spring, Extension 165x157 65 INSERT-BEARING 740244 31 Spring, Torsion 166x46 66 BEARING 3/8-UPPER 92281 32 Bolt, Shoulder 9x73 67 BEARING SPACER(PUR) 90904 34 Pin, Cotter 30x20 68 BEARING 3/8-LOWER 92282	26	Shaft, Splined	1401065	62	Deflector, Chute (Black)	1401081
29 Washer 17x47 64 BEARING 43846 30 Spring, Extension 165x157 65 INSERT-BEARING 740244 31 Spring, Torsion 166x46 66 BEARING 3/8-UPPER 92281 32 Bolt, Shoulder 9x73 67 BEARING SPACER(PUR) 90904 34 Pin, Cotter 30x20 68 BEARING 3/8-LOWER 92282	27	Arm Assemnly, Idler	1401258E701		Deflector, Chute (Grey)	1401218
30 Spring, Extension 165x157 65 INSERT-BEARING 740244 31 Spring, Torsion 166x46 66 BEARING 3/8-UPPER 92281 32 Bolt, Shoulder 9x73 67 BEARING SPACER(PUR) 90904 34 Pin, Cotter 30x20 68 BEARING 3/8-LOWER 92282	28	Bolt, Shoulder	9x73	63	Washer	17x120
31 Spring, Torsion 166x46 66 BEARING 3/8-UPPER 92281 32 Bolt, Shoulder 9x73 67 BEARING SPACER(PUR) 90904 34 Pin, Cotter 30x20 68 BEARING 3/8-LOWER 92282	29	Washer	17x47	64	BEARING	43846
32Bolt, Shoulder9x7367BEARING SPACER(PUR)9090434Pin, Cotter30x2068BEARING 3/8-LOWER92282	30	Spring, Extension	165x157	65	INSERT-BEARING	740244
34 Pin, Cotter 30x20 68 BEARING 3/8-LOWER 92282	31	Spring, Torsion	166x46	66	BEARING 3/8-UPPER	92281
	32	Bolt, Shoulder	9x73	67	BEARING SPACER(PUR)	90904
35 Arm Assembly, Brake 1401185	34	Pin, Cotter	30x20	68	BEARING 3/8-LOWER	92282
	35	Arm Assembly, Brake	1401185			

REPAIR PARTS ELECTRICAL SYSTEM



REPAIR PARTS ELECTRICAL SYSTEM

Key No.	Description	Part No.
1	Harness, Chassis Wire	250x115
2	Switch, Ignition	1401149
	Key, Ignition	327349
	Nut, Hex	
	Cap, Ignition	
3	Switch, Limit	1001575
4	Fuse	54212
	Holder, Fuse	407078
5	Solenoid	94613
Ũ	Screw, Mounting	26x229
	Locknut	15x116
6	Cable, Battery Ground	24x37
	Screw, Ground Cable	
7	Battery	92739
	Bolt, Carriage	2x82
	Wingnut	14x79
8	Switch, Seat Sensor	94159
9	Cable, Red Batery	24x24
	Boot, Positive Terminal	690604



Engine type	BS3125 OHV
Nominal power	9.2kw
Engine Speed	3600 min- ¹
Cutting size	760mm
Maching Net Weight	174kg
Blade type	1401079
Volume of the grass box	170L
Sound pressure level LpA and K	78.7dB(A),K=3 dB(A)
Sound power level LwA and K	100.2dB(A),K=1.94 dB(A)
Warranty Sound power level	100dB(A)
Vibration	
Max measured at the arm	4.74m/s ² ,K=1.5m/s ²
Max measured on the whole body	0.64m/s ² ,K=1.5m/s ²

NOTES

o DISPOSAL



Electrical products should not be discarded with household products. According to the European Directive 2012/19/EC on waste electrical and electronic equipment and its implementation into national law, electrical products used must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

INDEX

Α

Adjustments Blade Rotation Control, 24 Clutch, 25 Drive Brake, 25 Mower Housing, Level, 28 Shift Lever, 26 Attachments, 15, 52

B

Battery Charge, 26 Check, 12 Clean, 26 Install, 12 Removal, 26 Storage, 33 Belt Motion Drive Adjust, 25 Replace, 30 Mower Drive Adjust. 24 Replace, 31 Blade Inspect, 23 Remove And Install, 23 Sharpen, 23 Blade Control Lever, Operation, 15 Blade Rotation Control Adjust, 24 Location, 14

С

Clutch Adjust, 25 Check, 25 Clutch / Brake Pedal, Location, 14 Controls, Location, 14 Cutting Height Adjust, 28 Change, 17

D

Drive Brake Adjust, 25 Check, 25

E

Engine Fuel, 13, 19 Oil, 13, 19 Preparation, 13 Spark Arrester, 13, 22 Starting, 19 Storage, 33 Throttle Control, 15

F

Filter, Fuel, 27 Fuel, Type, 19 Fuse, 33

Ignition Switch, Location, 14

Lift Lever Location, 14 Operation, 17 Lubrication, Mower, 27

Μ

Maintenance Battery Charge, 26 Clean, 26 Belt Motion Drive, 30 Mower Drive, 31 Blade, 23 Blade Rotation Control, 24 Clutch, 25 Drive Brake, 25 Filter, Fuel, 27 Fuse, 33 Install, Wheels, 32 Lubrication, 27 Mower Housing Clean. 33 Install, 29 Level, 28 Remove, 29 Muffler, 22 Storage, 33 Maintenance Chart, 22 Motion Drive Belt Adjust, 25 Replace, 30 Mower Drive Belt Adjust, 24 Replace, 31 Mower Housing Clean, 33 Cutting Height, 17 Install, 29 Level Adjustment, 28 Operation, 20 Remove, 29 Muffler, 22 Spark Arrester, 22 Mulcher Cover, Remove, 18

0

Oil Check. 19 Type, 19 Operation Attachments, 15 Blade Control Lever, 15 Blade Rotation Control, 14 Clutch / Brake Pedal, 14 Ignition Switch, 14 Lift Lever, 14, 17 Location Of Controls, 14 Mower Housing, 20 Mowing And Bagging, 21 Operate On Hills, 20 Parking Brake, 14, 17 Shift Lever, 14, 16 Start The Engine, 19 Stop The Unit, 17 Throttle Control, 14, 15 Transport, 17

Ρ

Parking Brake Location, 14 Operation, 17 Parts Bag, 10

S

Safety Rules American National Standard Institute, 3–4 Safe Mowing Guide, 5–7 Seat, Install, 11 Seat Switch, Operation, 19 Shift Lever Adjust, 26 Location, 14 Operation, 16 Side Discharge Attachment, Install, 18 Slope Guide, 48 Spark Arrester, 13, 22 Steering Wheel, 11 Storage, 33

Т

Throttle Control Location, 14 Operation, 15 Tire Pressure, 13, 27 Trouble Shooting Chart, 34

Ν

Warranty, 2

DECLARATION OF CONFORMITY

Œ

BUILDER SAS

ZI, 32 RUE ARISTIDE BERGES - 312070 CUGNAUX - FRANCE

declares that the machines designated below: **RIDE-ON LAWN MOWER** FRT75BS125

Serial No.:

Conforms to the provisions of the Machinery Directive 2006/42/EC and national regulations transposing it: Also complies with the provisions of the following European directives: EMC Directive 2014/30/EU ROHS Directive (EU)2015/863 amending 2011/65/EU EMISSION Directive (EU)2016/1628 & 2016/1628/EU

> Noise Directive 2000/14/EC Annex VI & 2005/88/EC Measured sound power level: 100.2dB(A), K=1.94dB(A) Guarantee sound power level : 100dB(A)

Notified Body 0036 TÜV SÜD Industrie Service GmbH Westendstrasse 199 . 80686 München . Deutschland

Also complies with European standards, national standards and the following technical provisions:

EN ISO 5395-1:2013/A1: 2018, EN ISO 5395-3:2013/A2:2018 ENISO 14982: 2009

the people name holding the technical file: Mr. Olivier Patriarca

Cugnaux, 25/10/2021

Philippe MARIE / PDG





WARRANTY

The manufacturer guarantees the product against defects in material and workmanship for a period of 2 years from the date of the original purchase. The warranty only applies if the product is for household use. The warranty does not cover breakdowns due to normal wear and tear.

The manufacturer agrees to replace parts identified as defective by the designated distributor. The manufacturer does not accept responsibility for the replacement of the machine, in whole or in part, and/or ensuing damage.

The warranty does not cover breakdowns due to:

- insufficient maintenance.
- abnormal assembly, adjustment or operations of the product.
- parts subject to normal wear and tear.

The warranty does not extend to:

- shipping and packaging costs.
- using the tool for a purpose other than that for which it was designed.
- the use and maintenance of the machine done in a manner not described in the user manual.

Due to our policy of continuous product improvement, we reserve the right to alter or change specifications without notice. Consequently, the product may be different from the information contained therein, but a modification will be undertaken without notice if it is recognized as an improvement of the preceding characteristic.

READ THE MANUAL CAREFULLY BEFORE USING THE MACHINE.

When ordering spare parts, please indicate the part number or code, you can find this in the spare parts list in this manual. Keep the purchase receipt; without it, the warranty is invalid. To help you with your product, we invite you to contact us by phone or via our website:

• +33 (0)9.70.75.30.30

https://services.swap-europe.com/contact

You must create a "ticket" via the web platform.

- Register or create your account.
- Indicate the reference of the tool.
- Choose the subject of your request.
- Describe your problem.
- Attach these files: invoice or sales receipt, photo of the identification plate (serial number), photo of the part you need (for example: pins on the transformer plug which are broken).



PRODUCT FAILURE

WHAT TO DO IF MY MACHINE BREAKS DOWN?

If you bought your product in a store:

- a) Empty the fuel tank.
- b) Make sure that your machine is complete with all accessories supplied, and clean! If this is not the case, the repairer will refuse the machine.

Go to the store with the complete machine and with the receipt or invoice.

If you bought your product on a website:

- a) Empty the fuel tank.
- b) Make sure that your machine is complete with all accessories supplied, and clean! If this is not the case, the repairer will refuse the machine.
- c) Create a SWAP-Europe service ticket on the site: https://services.swap-europe.com When making the request on SWAP-Europe, you must attach the invoice and the photo of the nameplate (serial number).
- d) Contact the repair station to make sure it is available before dropping off the machine.

Go to the repair station with the complete machine packed, accompanied by the purchase invoice and the station support sheet downloadable after the service request is completed on the SWAP-Europe site

For machines with engine failure from manufacturers BRIGGS & STRATTON, HONDA and RATO, please refer to the following instructions.

Repairs will be done by approved engine manufacturers of these manufacturers, see their site:

- http://www.briggsandstratton.com/eu/fr
- http://www.honda-engines-eu.com/fr/service-network-page;jsessionid=5EE8456CF39CD572AA2AEEDFD 290CDAE
- https://www.rato-europe.com/it/service-network

Please keep your original packaging to allow for after-sales service returns or pack your machine with a similar cardboard box of the same dimensions.

For any question concerning our after-sales service you can make a request on our website https:// services.swap-europe.com

Our hotline remains available at +33 (9) 70 75 30 30.



WARRANTY EXCLUSIONS

THE WARRANTY DOES NOT COVER:

- Start-up and setting up of the product.
- Damage resulting from normal wear and tear of the product.
- Damage resulting from improper use of the product.
- Damage resulting from assembly or start-up not in accordance with the user manual.
- Breakdowns related to carburetion beyond 90 days and fouling of carburetors.
- Periodic and standard maintenance events.
- Actions of modification and dismantling that directly void the warranty.
- Products whose original authentication marking (brand, serial number) has been degraded, altered or withdrawn.
- Replacement of consumables.
- The use of non-original parts.
- · Breakage of parts following impacts or projections.
- Accessories breakdowns.
- Defects and their consequences linked to any external cause.
- · Loss of components and loss due to insufficient screwing.
- Cutting components and any damage related to the loosening of parts.
- Overload or overheating.
- Poor power supply quality: faulty voltage, voltage error, etc.
- Damages resulting from the deprivation of enjoyment of the product during the time necessary for repairs and more generally the costs related to the immobilization of the product.
- The costs of a second opinion established by a third party following an estimate by a SWAP-Europe repair station
- The use of a product which would show a defect or a breakage which was not the subject of an immediate report and/or repair with the services of SWAP-Europe.
- Deterioration linked to transport and storage*.
- Launchers beyond 90 days.
- Oil, petrol, grease.
- Damages related to the use of non-compliant fuels or lubricants.

* In accordance with transport legislation, damage related to transport must be declared to carriers within 48 hours maximum after observation by registered letter with acknowledgement of receipt.

This document is a supplement to your notice, a non-exhaustive list.

Attention: all orders must be checked in the presence of the delivery person. In case of refusal by the delivery person, it you must simply refuse the delivery and notify your refusal.

Reminder: the reserves do not exclude the notification by registered letter with acknowledgement within 72 hours.

Information:

Thermal devices must be wintered each season (service available on the SWAP-Europe site). Batteries must be charged before being stored.