

**CRAFTOP**®



# Owner's Manual

## Petrol Lawn Mower

**GLM18-CT139-H, GLM18-CT139-S**

**GLM21-CT196-H, GLM21-CT196-S**



**EXPERTS  
IN EQUIPMENTS OF  
GARDENING AND AGRICULTURE**

**ENGLISH  
VERSION: 00-202207**

## **We thank you for buying CRAFTOP Petrol Lawn Mowers**

These petrol lawn mowers provide advanced technology in incorporating many convenient features for you to perform your daily mowing work.

**Before attempting to use these lawn mowers, please read this manual carefully until you completely understand and can follow all safety rules, precautions, operating and maintenance instructions.** It will help you both to become more familiar with these lawn mowers and to recognize and avoid situations that could endanger you and others. **Careless or improper use may cause serious or even fatal injury!**

If you have any question about your lawn mower and this manual, please contact CRAFTOP authorized dealer or service center for your area. They always welcome your questions, suggestions, and constructive criticism.

We hope you enjoy these lawn mowers and wish you many years of safe and enjoyable mowing work.

**CRAFTOP CANADA LTD.**

The logo for CRAFTOP, featuring the brand name in a bold, italicized, sans-serif font. The letters are a light pink color. A registered trademark symbol (®) is located to the right of the word.

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## Guide to use this manual

This Owner's Manual refers to a CRAFTOP lawn mower, also called a machine, product or unit in this Owner's Manual.

All information, specifications, descriptions and illustrations in this manual are as accurate as known at the time of publication, but are subject to change without notice. Due to ongoing product development, there may be difference between your machine and the information in this manual. No legal obligations or commitments can be delivered from the information, specifications, descriptions, or illustrations in this manual.

Illustrations are only for orientation and are merely used to help explain the text descriptions and instructions. Illustrations may include optional equipment and accessories, and may not include all standard equipment.

Some signs or symbols on the machine may be a little different refer to special certification requirements for certain markets.

Any technical modifications to the machine that were introduced after the editorial deadline, please consult your local dealer for more supplementary information.

All safety precautions and instructions described in this manual should be observed during operation of the lawn mower, and all applicable federal, state and local safety regulations, standards, and ordinances should be observed as well.

Do not sell, lend or rent the machine without this owner's manual. Always be sure to include this owner's manual together with the machine, and make sure that anyone using it understands all the information and follows all the instruction contained in this manual.

Keep this manual in a safe place for future and regular reference and for ordering replacement parts.

## Signs and symbols in this manual

### **DANGER**

Texts with this symbol contain information regarding hazardous situations which will cause death or severe injures if not avoided.

### **WARNING**

Texts with this symbol contain information regarding hazardous situations which could cause death or severe injures if not avoided.

### **CAUTION**

Texts with this symbol contain information regarding hazardous situations which could cause minor or moderate injures if not avoided.

### **NOTICE**

Texts with this symbol information regarding situation which could cause lawn mower damage if not avoided.

### **information**

Texts with this symbol contain supplementary information.

### **Read and understand the Owner's Manual.**

It is very important that you read this Owner's Manual carefully, make sure that you completely understand and can follow all safety rules, precautions, operating and maintenance instructions before attempting to use this lawn mower, failure to do so may cause serious or even fatal injury!



Special safety precautions must be observed to reduce personal injury because of the very high speed of its cutting attachment.



### **Wear proper clothing.**



### **Wear eye and ear protection.**

Always wear appropriate personal protective equipments for lawn mower operation, inclusive of eye protection and ear protection.



### **Hands protection.**

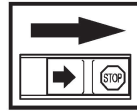
Always wear appropriate gloves for lawn mower operation.





**Foot protection required.**

Steel toe shoes with anti-slip sole required in working area.



Switch off the engine by moving the stop switch to the STOP position before carrying out any checks or maintenance.



**Fire hazard.**

Risk of fire.  
Highly flammable material.



Keep Bystanders Away



**No smoking.**

Do not smoke in this area.



When repairing, please disconnect the spark plug, then repair it according to the operational Manual.



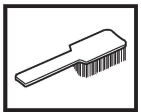
**Hot surface.**

Do not touch.



**Cutting/dismemberment hazard.**

Pay more attention to the operator's hands and feet to avoid being injured.



Regular cleaning is required.



Visual check.



Don't operate the mower when it is raining.

When mowing, please wear the glasses and earplugs to defend the operator himself.



Protective glasses or a visor must be worn.

**Signs and symbols on the machine**

For the purpose of safety operation and maintenance, the meanings of signs and symbols may be attached to or embossed on the machine.



Inspect the work area: Stones, pieces of metal or other solid objects may be thrown more than 15 meters and cause personal injury or damage the cutting attachment and property.



CAUTION! Lawn mowers can be dangerous! Careless or incorrect use can result in serious or even fatal injury to the operator or others.



Noise level decal.



Please read the instructions carefully and make sure you understand them before using the lawn mower.



The port to top up fuel of gasoline.

Position: Fuel tank cap



**Choke control.**  
Choke closed.  
“Cold start” position.



**Choke control.**  
Choke open.  
“Run” position.

**Safety decal**



Other signs or decals on the machine refer to special certification requirements for certain markets.

**LRAFTOP**®

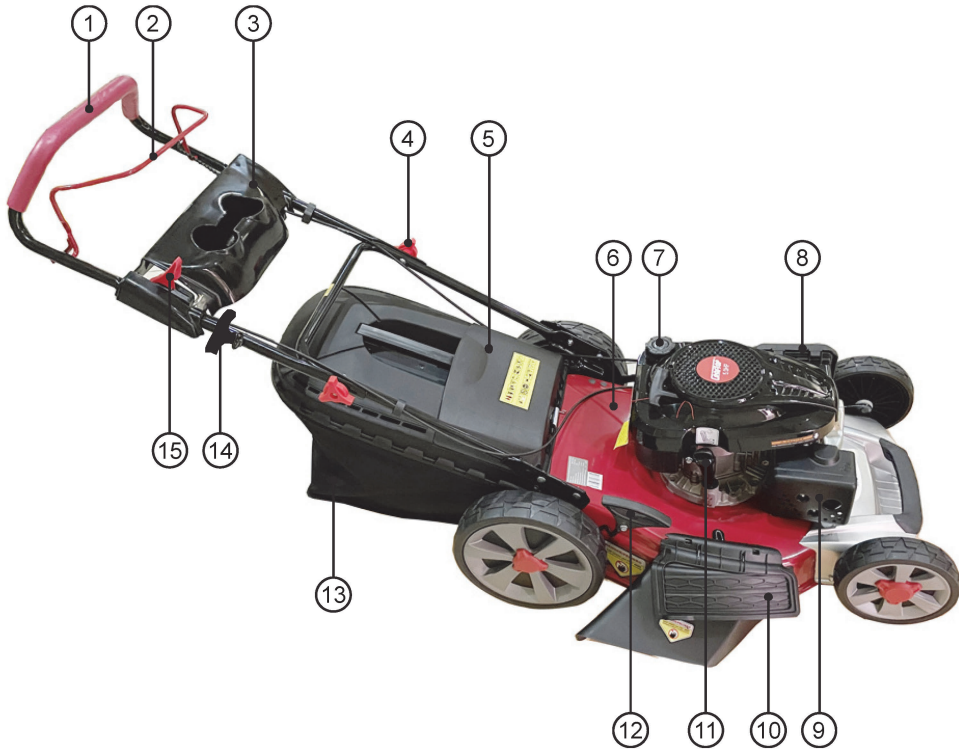
## Product overview

### GLM18-CT139-H, GLM18-CT139-S



1	Handlebar	6	Cutting height adjustment lever	10	Cutting deck
2	Blade control lever	7	Oil filler cap	11	Air filter
3	Recoil starter handle	8	Muffler	12	Fuel tank cap
4	Throttle control switch	9	Side discharge deflector and cover	13	Rear discharge guard
5	Grass catcher / bag			14	Star knob

## GLM21-CT196-H, GLM21-CT196-S



- |   |                      |    |                                    |    |                                 |
|---|----------------------|----|------------------------------------|----|---------------------------------|
| 1 | Handlebar            | 6  | Cutting deck                       | 11 | Oil filler cap                  |
| 2 | Blade control lever  | 7  | Fuel tank cap                      | 12 | Cutting height adjustment lever |
| 3 | Bracket holder       | 8  | Air filter                         | 13 | Grass bag                       |
| 4 | Star knob            | 9  | Muffler                            | 14 | Recoil starter handle           |
| 5 | Rear discharge guard | 10 | Side discharge deflector and cover | 15 | Throttle control switch         |

## Technical specification

Model			GLM18-CT139-H	GLM18-CT139-S	GLM21-CT196-H	GLM21-CT196-S
Item	Description	Unit	Specification			
Overall	Package dimension	mm	770x535x435		920x610x460	
	Net weight	kg	31	33	36	38
	Gross weight	kg	34	36	38	40
Drive			Hand-push	Self-propelled	Hand-push	Self-propelled
Cutting parameter	Cutting width	inch	18		21	
		mm	460		520	
	Cutting height	mm	20~80		15~75	
	Cutting adjustment height		eight (8) positions			
Catcher	Cater type		Fabric		Fabric + Plastic	

Model			GLM18-CT139-H	GLM18-CT139-S	GLM21-CT196-H	GLM21-CT196-S
Item	Description	Unit	Specification			
	Catcher capacity	L	60		65	
<b>Deck</b>	Material		Steel			
<b>Wheels</b>	Size	inch	Front=7 / Rear=8		Front=8 / Rear=12	
<b>Engine</b>	Model No.		Loncin LC1P65FE		Loncin LC1P70FA	
	Type		Single cylinder, Air cooled, 4-stroke, OHV, Vertical Gasoline engine			
	Engine power	kW	2.4kW@3600rpm		4.0kW@3600rpm	
	Maximum engine speed	rpm	3600			
	Displacement	ml	139		196	
	Cylinder bore	mm	65		70	
	Piston stroke	mm	42		51	
	Carburetor		Float			
	Ignition system		T.C.I.			
	Starter type		Recoil			
<b>Spark plug</b>	Type		F7RTC			
	Electrode gap	inch mm	0.028~0.031 0.7~0.8			
<b>Fuel</b>	Type		Unleaded gasoline			
	Tank capacity	ml	900		1000	
<b>Engine oil</b>	Type		SAE 10W-30			
	Tank capacity	ml	500			
<b>Noise level</b>	Equivalent power level noise	dB(A)	≤70LWA		≤72LWA	

### information

Specifications, descriptions and illustrations in this manual are as accurate as known at the time of publication, but are subject to change without notice.

## Safety precautions and instructions



Special safety precautions must be observed when working with a lawn mower because of the very high speed of its cutting attachment. Careless or improper use may cause serious or even fatal injury.



Before attempting to use this lawn mower, please read this manual carefully until you completely understand and can follow all safety rules, precautions, operating and maintenance instructions.

## Safety precautions

Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times. This rotary-blade, walk-behind lawn mower is intended to be used by residential homeowners. It is designed primarily for cutting grass on well-maintained lawns on residential properties. Do not use it for any other purpose. Using this product for purposes other than its intended use could prove dangerous to you and bystanders.

### DANGER

Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the



part of the operator can result in serious injury. This lawn mower is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

## **WARNING**

- Observe all applicable local safety regulations, standards and ordinances.
- If you have not used this type of lawn mower before, have your dealer or other experienced user show you how to operate your machine.
- Because a lawn mower is high-speed grass-cutting tool, some special precautions must be observed to reduce the risk of accident and personal injury. Careless or improper use may cause serious or even fatal injury.
- The use of this lawn mower may be hazardous. The cutting blades have many sharp edges. If the sharp edge contacts your body, they will cut you, even if the cutting attachment is not moving.
- Pay special attention to reactive forces because it is very dangerous.
- The exhaust from this machine may contain chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.
- The noise emitted from this machine may be restricted to certain times by national or local regulations.
- This machine is designed for cutting grass. Do not use it for other purpose, since misuse may result in personal injury or property damage, including damage to the lawn mower.
- Your lawn mower is a one-person-operated machine. Do not allow other persons in the general work area, even when starting. Stop the engine immediately if you are approached.
- Minors should never be allowed to use this lawn mower. Only responsible individuals who are familiar with these rules of safe operation should be allowed to use your mower.
- The cutting attachment may catch and fling objects a great distance and cause injury. Do not allow other persons near the lawn mower when starting or cutting. Keep bystanders, especially children, and animals out of the work area. Keep bystanders, children, and animals a minimum of 50 feet (15m) from the work area. Also, maintain this distance from other objects (vehicles, windows, etc.). Even maintaining a distance of 50 feet (15m) or more can not avoid the potential danger.
- The people who use this lawn mower must be in good physical condition and mental health, and not under the influence of alcohol and drugs. Never use this lawn mower when you are fatigued, sick, or upset. If you feel tired, take a break.
- The components of this machine generate an electromagnetic field during operation, which may interfere with some pacemakers. To reduce the risk of serious or fatal injury, persons with pacemakers should consult with their physician and the pacemaker manufacturer before operating this machine. In the absence of such information,

CRAFTOP does not recommend the use of this machine by anyone who has a pacemaker.

- The owner of this machine is responsible for avoiding injury to third parties or damage to their property.

## **CAUTION**

Prolonged exposure to cold and/or vibration may result in injury. Read and follow all safety and operation instructions to minimize risk of injury. Failure to follow instructions may result in painful wrist/hand/arm injuries.

Raynaud's Phenomenon may affect the fingers of certain individual if a person is exposed to vibration and cold. Exposure to vibration and cold may cause tingling and burning sensations, followed by loss of color and numbness in the fingers. The following precautions are strongly recommended:

- Keep your body warm, especially the head, neck, hands, wrists, ankles and feet.
- Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks.
- Limit the hours of operation, have a rest when you feel tired or fatigued.
- If you experience discomfort, redness, and swelling of the fingers followed by whitening and loss of feeling, consult your physician before continuing exposing yourself to cold and vibration.

Overusing the muscles and tendons of the fingers, hands, arms, and shoulders may cause soreness, swelling, numbness, weakness, and extreme pain in those areas.

- Avoid using your wrist in a bent, extended, or twisted posture. Instead, try to maintain a straight wrist position. Also, when grasping, use your whole hand, not just the thumb and index finger.
- Take periodic breaks to minimize repetition and let your hands have a rest.
- Reduce the speed and force with which you do the repetitive movement.
- Do exercise to strengthen your hands and arm muscles.
- Immediately stop using the machine and other power tools, and consult a doctor if you feel tingling, numbness, or pain in the fingers, hands, wrists, or arms.

## **DANGER**

All electrical conductors and communications wires can have electricity flow with high voltages. This machine is not insulated against electrical current. Never touch wires directly or indirectly, otherwise serious injury or even death may result.

## **DANGER**

Do not operate this machine indoors or in inadequately ventilated areas. Engine exhaust contains poisonous emissions and can cause serious injury or death.

## Clothing and PPE



**Wear proper clothing.**



**Wear eye and ear protection.**

Always wear appropriate personal protective equipments for lawn mower operation, inclusive of eye protection and ear protection.



**Hands protection.**

Always wear appropriate gloves for lawn mower operation.



**Foot protection required.**

Steel toe shoes with anti-slip sole required in working area.

### **WARNING**

Most lawn mower accidents happen when the cutting attachments touch the operator or objects thrown to the operator. You must wear approved clothing and approved personal protective equipments (PPE) whenever you use a lawn mower.



**Wear proper clothing.**

Avoid clothing that could get caught on branches or brush or moving parts of the machine. Do not wear a scarf, necktie or jewelry. Tie up long hair so that it is above shoulder level.



**Ear and eye protection**

Always wear appropriate personal protective equipments for lawn mower operation, inclusive of eye protection and ear protection.



**Hands protection**

Always wear heavy-duty work gloves made of durable material for lawn mower operation.



**Foot protection.**

Wear sturdy boots with steel toe and non-slip soles in your working area.



Always have a first aid kit at your working place

Personal protective equipments can not eliminate the risk of injury, but it will reduce the degree of injury if an accident does happen. Ask your lawn mower dealer for help in choosing the right equipments.

Long-time or continuous exposure to high noise levels may cause permanent hearing impairment. Always wear approved hearing protection when operating a lawn mower.

## Handle your lawn mower safely

### **WARNING**

This machine is designed for cutting grass. Do not use it for other purpose, since misuse may result in personal injury or property damage, including damage to the lawn mower.

Under any circumstance, you should not modify the original design of the lawn mower without approval from CRAFTOP. Always use genuine cutting attachments and spare parts. Unauthorized modifications or accessories may lead to serious or even fatal injury.

Under any circumstance, you should not operate your lawn mower if it is damaged, improperly adjusted or maintained, or not completely or securely assembled. Always inspect the lawn mower before each use, and replace the parts immediately if it is worn, loose, damaged or missing.

The deflector on this machine can not protect the operator from all objects thrown by the cutting attachment (stones, woods, glass, wire, etc.). Such objects may ricochet and then hit the operator.

- Always disconnect spark plug wire and place wire where it cannot contact spark plug to prevent accidental starting when setting up, transporting, adjusting or making repairs except carburetor adjustments.
- Always hold the machine firmly with both hands on the handlebar and blade control lever while you are working. Wrap your thumbs and fingers tightly encircling the handle and blade control lever when cutting.



Protective glasses or a visor must be worn.

### CAUTION

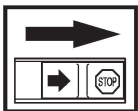
All lawn mower service, other than the items listed in the maintenance section of this manual, should be performed by authorized service dealer or competent lawn mower service personnel.

### WARNING

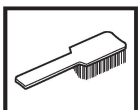
Only use high-quality replacement parts in order to avoid the risk of accidents and damage to the power tool. If you have any questions in this respect, consult an authorized dealer or service center. CRAFTOP recommends the use of genuine spare parts. They are specifically designed to match your model and meet your performance requirements.

- Operate the lawn mower only in a well-ventilated outdoor area. Never start or run the engine inside a closed room or building. Exhaust fumes contain dangerous carbon monoxide.
- Never operate the machine at night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to maintain a clear view of the working area.
- During rain, storms at times of strong or gale-force winds, or at any other times when weather conditions might make it unsafe to use this machine.
- Carefully plan your cutting operation in advance. Never start cutting until you have a clear work area.
- Maintain footing and balance at all times. Do not stand on slippery, uneven or unstable surfaces. Do not operate the lawn mower in odd position or on a ladder or ladders.
- Always shut off the engine before putting the lawn mower down.
- Keep exhaust area clear of flammable debris. Avoid contact hot surfaces during and immediately after operation.
- Use a damp cloth, soft bristle brush, and/or air compressor (Max 25 PSI) to clear your lawn mower. Do not use a pressure washer to clean lawn mower as the solid jet of high pressure water may damage parts of the machine.

### Maintain in good work order



Switch off the engine by moving the stop switch to the STOP position before carrying out any checks or maintenance.



Regular cleaning is required.



Visual check.

- Perform the inspection and maintenance at regular intervals according to this manual.
- Under no circumstances should you ever take apart the lawn mower or alter it in any way. Doing so might result in the lawn mower becoming damaged during operation or the lawn mower becoming unable to operate properly.
- Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
- Check the blade and engine mounting bolts at frequent intervals for proper tightness. Also, visually inspect blade for damage (bent, cracked or worn). Replace with blade which meets original equipment specifications listed in this manual.
- Never tamper with safety devices. Check their proper operation regularly.
- To reduce the risk of injury, always shut off the engine before carrying out any inspection, maintenance, repairs or cleaning the machine, and make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
- Keep the handles dry, clean, and free of oil or fuel.
- Keep fuel and oil caps, screws, and fasteners securely tightened.
- Check that the cutting attachment is firmly attached and in safe operating condition.
- Do not turn the engine over on the starter with the spark plug boot or spark plug removed since there is otherwise a risk of fire from uncontained sparking.
- Check fuel system for leaks due to fuel tank damage, especially if the machine is dropped accidentally. If damages or leaks are found, do not use the machine any more, otherwise serious personal injury or property damage may occur. Have your machine repaired by authorized dealer or service center before next use.
- Check the fuel filler cap for leaks at regular intervals.
- To reduce the risk of fire, do not service or store your machine near open flames.

- Only use a spark plug type which is approved by CRAFTOP and make sure it is in good condition.
- Check the condition of the muffler. To reduce the risk of fire and damage to hearing, do not operate your machine if the muffler is damaged or missing.
- Do not touch muffler, spark plug, or other metallic parts of the engine while the engine is running or immediately shutting down, otherwise burn injury will result.
- After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before starting and operating the mower.
- Clean grass and plant residue off the cutting attachment, remove any build up of material from the cutting attachment and deflector at regular intervals.
- Keep the blade always sharp.
- Filling the cutting edges, keep the end corner sharp and round the root of the edge.
- Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. For safety protection, frequently check components and replace with manufacture's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blades) or wear gloves, and use extra caution when servicing them.
- Do not change the engine governor setting or over speed the engine. Excessive engine speeds are dangerous.
- Do not adjust the throttle with the engine running
- Check and keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition. Tighten and/or replace as needed.

## Maintain good control of lawn mower

**! WARNING**  
To reduce the risk of serious or even fatal injury to the operator or bystanders from loss of control, never use the lawn mower with one hand. Always hold the lawn mower firmly with both hands when the engine is running.

**! WARNING**  
To reduce the risk of cutting injuries, keep hands and feet away from the cutting tool. Never touch a moving tool with your hand or any other part of your body.

Keep a good, firm grip on the lawn mower with both hands when the engine is running. A firm grip will help you to maintain control of the machine.

- Always place your left hand on the left handle and your right hand on the right handle.
- Wrap your fingers and thumb around the handles. You should use this grip whether you are right-handed or left-handed. This grip minimizes the effect of kickback and lets you keep the lawn mower under control. Do not let go of the handles!

- Keep proper footing and balance at all times. Stand with your weight evenly balanced on both feet.
- Always stand on the ground while working, never on a ladder, work platform or any other insecure support.
- Pay special caution when working on slippery ground, slopes, or uneven ground.

## Transporting your lawn mower

**! WARNING**  
To reduce the risk of injury from blade contact, never carry or transport your lawn mower with the cutting blade moving.

**! WARNING**  
Always stop the engine before you transport the lawn mower. Carrying a lawn mower with the engine running may be extremely dangerous.

- When transporting your lawn mower by hand, use two persons:
  - Hold the cover with both hands.
  - Hold the left bracket with the left hand, right bracket with the right hand.
- Avoid touching hot parts of the machine, especially the muffler and gear housing, otherwise you could suffer serious burns.
- When transporting your lawn mower in a vehicle, the machine should be properly secured to avoid sudden move, turnover, fuel spillage and damage to your machine.
- Never transport the lawn mower over rough roads over long distances without removing all fuel from the fuel tank firstly. If doing so, it may cause fuel to leak from the tank.
- Do not transport the machine by bicycle or motorcycle because it is very dangerous.

## Handle fuel with caution

Your lawn mower uses gasoline for fuel. Do not use fuel mixture.

**! WARNING**  
Gasoline is an extremely flammable fuel. Pay high attention when storing or handling, otherwise serious personal injury may result.



If spilled and ignited by a spark or other ignition source, gasoline can cause fire and serious burn injury or property damage.



Do not smoke or bring any fire or flame while handling fuel or while operating the lawn mower. Note that combustible fuel vapor may escape from the fuel system.

- Use only an approved gasoline container.
- Refill fuel in a well ventilated outdoor area on bare ground; store fuel in a cool, dry well ventilated place; and use an approved, marked container for all fuel

purposes. Wipe up all fuel spills before starting the lawn mower.

- Eliminate all sources of sparks or flame (i.e. smoking, open flames, or work that can cause sparks) in the areas where fuel is poured or stored.
- Always use with caution when handling fuel. Wipe up all spills and then move the lawn mower at least 10feet (3 meters) from the fueling point before starting the engine.
- To reduce the risk of fire and explosion, fuel your machine only in a well-ventilated area, outdoors away from flames, pilot lights, heaters, electric motors, and other sources of ignition.
- Never remove the fuel cap while the engine is running.
- Always shut off the engine before refueling, let the machine cool down in a non-combustible area, not on dry leaves, straw, paper, etc. Do not fuel a hot engine because fuel may spill out and cause a fire.
- Loosen a bit of the fuel cap carefully so as to allow any pressure build-up in the fuel tank to release slowly and avoid fuel spillage. Never remove the fuel cap when engine is running!
- If you spill fuel, wipe the machine immediately. If fuel spills on your clothing, change it immediately.
- After fueling, tighten the fuel cap securely to the proper position, make sure it does not loosen or come off due to the machine vibrations.
- To reduce the risk of serious or fatal burn injuries, check for fuel leakage. If fuel leakage is found, do not start or run the engine until leak is fixed.
- Do not inhale fuel fumes as they are toxic.
- Allow the engine to cool before storing in any enclosure. To reduce the fire hazard, must keep the engine, silencer, and petrol storage area free of grass, leaves, or excessive grease.
- Store the machine and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.

## Before starting the engine

An area within a minimum radius of 50feet (15m) from the using the machine should be considered as a hazardous area, into which one should enter. If necessary, yellow warning rope and warning signs should be placed around the perimeter of the area. When work is to be performed simultaneously by two or more persons, special care should also be taken to constantly look around or otherwise check for the presence and locations of other people working, so as to maintain sufficient safety distance between each person.

Before starting the engine, check that your machine is properly assembled and in good condition

- Check cutting attachment is correctly fitted and adjusted.
- Check protective devices (e.g. deflector for cutting attachment or riding plate) for damage or wear. If damage or wear, place it before next use.

- To reduce the risk of accidents, operate your machine only if it is in a safe condition, do not operate your machine if it is damaged or not properly assembled.
- Check the fuel system for leaks, paying high attention to visible parts such as the fuel tank cap, hose connections and the manual fuel pump (if equipped). If there are any leaks or damage, do not start the engine because of potential risk of fire. Have your machine repaired by an authorized dealer or service center before using it again.
- Check that the spark plug boot is secure – a loose boot may cause arcing that could ignite combustible fumes and cause a fire.
- The engine stop switch must move easily in direction of STOP position and START position.
- Smooth action of throttle trigger lockout and throttle trigger (if fitted) - The throttle trigger must return automatically to the idle position by itself.
- Never attempt to modify the controls or safety devices in any way.
- Keep all handles dry and clean, free from oil and dirt – for safe control of the machine.
- Use only an approved combination of cutting attachment, deflector, handle and harness. All parts must be assembled properly and securely.
- Adjust the harness and handles to suit your height and reach.
- If you use a shoulder strap or full harness, practice moving and putting down the machine as you may involve in an emergency. To avoid damage of your machine, do not throw it to the ground when practicing.
- Never use blades that are bent, warped, cracked, broken or damaged in any way.
- Check the bolt to fasten the blade and be sure the blade turns smoothly without abnormal noise.

## When starting the engine

### WARNING

To reduce the risk of injury, avoid contact with the cutting attachment.

- Your machine is designed to be operated by one person only. Do not allow other persons in the work area even when starting.
- Start the engine at least 10feet (3m) from the fueling spot, outdoors only.
- Keep bystanders, especially children and animals at least 50feet (15m) from the operating point. If you are approached, immediately stop the engine to help prevent blade contact or thrown object injury.

### WARNING

Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

- Place the machine on firm ground in an open and well ventilated area. Make sure you have good balance

and secure footing. Hold the machine securely. The cutting attachment must not contact the ground and all other obstructions because they may begin to run when the engine starts.

- Do not drop start the power tool, just follows the way and start the engine as described in this manual.
- Never start the engine by standing on the cutting attachments side.
- Place the throttle into the idling position when starting the engine.
- Check idle speed setting: The cutting attachment must not rotate when the engine is idling with the throttle trigger released. If it continues to rotate even after the throttle trigger has been completely released, shut off the engine and take the machine to your authorized dealer or service center for inspection and/or repair.

## During operation

**WARNING**  
Moving parts can amputate fingers or cause severe injuries. Keep hands, clothing and loose objects away from all moving parts. Always stop engine, disconnect spark plug, and make sure all moving parts have come to a complete stop before removing obstructions, clearing debris, or servicing unit.

**WARNING**  
Inspect the working area: Stones, piece of metal or other solid objects may be thrown more than 50 feet (15m) and cause personal injury or damage the cutting attachment and property (vehicles, windows, etc.).



Always wear safety glasses of safety goggles during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.



Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Shirts and pants that cover the arms and legs and steel-toed shoes are recommended. Do not wear loose fitting clothes or jewelry. They can be caught in moving parts. Never operate a unit in bare feet, sandals, slippery or light weight (e.g. Canvas) shoes.



Do not touch any moving parts, especially the cutting blades, while the motor is running. If the cutting attachments become jammed by thick branches or other obstructions, switch off the engine immediately before attempting to free the cutting blades – there is otherwise a risk of injury.



Hot surface.  
Do not touch.

- Always carry related tools, equipments, spare parts, and consumables with you:
  - Attached tools in the product package.
  - Personal protective equipments.
  - Properly reserved fuel
  - Spare parts.
  - Things to notify your working are (rope, warning signs, etc.).
  - Whistle (for collaboration or emergency).
  - Hatchet or saw (for removal of obstacles).
- Check that there are no bystanders, children, and animals in the general work area. If someone comes:
  - Guard against hazardous situations at all times. Warn adults to keep children and pets away from your working area. Be careful if you are approached. Injury may result from flying debris.
  - If someone calls out or otherwise interrupts you while working, always be sure to shut off the engine before turning around. Avoid operating which people, especially children are nearby.
- Always be aware of surroundings and stay alert for possible hazards that you may not hear due to the noise of the machine.
- When work is to be performed simultaneously by two or more persons, always check the presence and locations of others so as to maintain a sufficient safe distance between each other.
- Make sure you always have good balance and secure footing. Place your feet slightly apart (slightly further apart than the width of your shoulders), so that your weight is distributed evenly across both legs, and always be sure to maintain a steady, even posture while working.
- Take special care in slippery conditions (ice, wet ground, snow), over-grown terrain, on slopes or uneven ground.
- Watch out for obstacles (roots, tree stumps or holes) which could cause you to trip or stumble.
- Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones, toys and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area. Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the like. To help avoid thrown objects injury, keep children, bystanders and helpers at least 50 feet from the mower while it is in operation.
- Inspect work area to avoid damaging the cutting attachment:
  - Remove stones, rocks, pieces of metal and other solid objects.
  - When working close to the ground, make sure that no sand, grit or stones get between the cutting attachments.
  - Take particular care when cutting grass next to or against wire fences.

- Watch the lawn mower at all times, do not cut areas that you cannot see clearly. Check the conditions of working area to avoid any accident by hitting hidden obstacles, such as stumps, stones, cans, or broken glass.
- Do not put hands or feet near or under rotating parts. Keep clear of discharge opening at all times as the rotating blade can cause injury.
- Many injuries occur as a result of the mower being pulled over the foot during a fall. Do not hang on to the mower if you are falling, release the handle immediately.
- Never pull the mower toward you while you are walking. If you must back the mower away from a wall or obstruction first look down and behind, and then follow these steps;
  - Step back from the mower to fully extend your arms.
  - Pull the mower back slowly, no more than half way toward you.
  - Walk when you operate the mower and never run after the mower.
  - Exercise extreme caution when changing direction on slopes.
- Never attempt to make a wheel or cutting height adjustment while the engine is running.
- The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions and automatically return to the disengaged position when released.
- Never operate the mower in wet grass when feasible. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. If you feel you are losing your footing. **RELEASE THE BLADE CONTROL HANDLE IMMEDIATELY** and the blade will stop rotating within three seconds.
- Stop the blade when you finish cutting in one location and wish to continue work in another spot, or when crossing gravel drives, walks or roads.
- Stop the blades if the lawn mower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawnmower to and from the area to be mowed.
- If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- If the grass gets caught in the blade during operation, make sure to turn off the engine before you perform any inspection or cleaning work. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
- Never operate mower with defective guards, or without grass catcher, plates or other safety protective devices in place.
- If the blade touches a hard object like stone, immediately stop the engine and check if something is wrong with the blade. If damage, replace the blade by new one.
- Never touch the spark plug or plug cord while the engine is in operation. Doing so may result in an electrical shock.
- Note that the cutting attachment continue to run for a short period after you let go of the throttle trigger, due to flywheel effect.
- The gearbox becomes hot during operation. To reduce the risk of burn injury, do not touch the gearbox housing.
- Never touch the muffler, spark plug, or other metallic parts of the engine while the engine is in operation or immediately after shutting down the engine. Doing so may result in serious burns.
- Be particularly alert and cautious when wearing hearing protection because your ability to hear warnings (shouts, alarms, etc.) is restricted.
- To reduce the risk of accidents, take sufficient break in good time to avoid tiredness or exhaustion.
- Work calmly and carefully in daylight conditions and only when visibility is good. Stay alert so as not to endanger others.
- To reduce the risk of serious or fatal injury from breathing toxic fumes, ensure proper ventilation when working in trenches, hollows or other confined locations.
- To reduce the risk of accidents, stop work immediately in the event of nausea, headache, visual disturbances (e.g. reduced field of vision), problems with hearing, dizziness, deterioration in ability to concentrate. Apart from other possibilities, these symptoms may be caused by an excessively high concentration of exhaust gases in the work area.
- To avoid noise complaints, in general operate the machine between 8AM and 5PM on weekdays, and 9AM to 5PM on weekends, detail please refer to your local regulations.
- To reduce the risk of fire, do not smoke while operating or standing near your machine. Note that combustible fuel vapor may escape from the fuel system. Always clean plant residue, chips, debris, leaves and excess lubricant off the engine and muffler. Note that stop the engine before you perform the cleaning work.
- If your power tool is subjected to unusually high loads for which it was not designed (e.g. heavy impact or a fall), always check that it is in good condition before continuing work. Check the fuel system in particular for leaks and make sure the safety devices are working properly. Do not continue operating your machine if it is damaged. In case of doubt, consult your local authorized dealer or service center.
- The dust that occurs during operation may be harmful to health. If dust levels are very high, wear a suitable respirator.
- Before leaving the machine unattended, always shut off the engine.

- Check the cutting attachment at regular short intervals during operation or immediately if there is a noticeable change in cutting behavior:
  - Shut off the engine.
  - Wait until the cutting attachment has come to a complete standstill.
  - Check condition and tightness, look for cracks.
  - Check sharpness.
- Only use accessories approved for this machine by the manufacturer. Read, understand, and follow all instructions provided with the approved accessory.
- If situations occur which are not covered in this manual, please contact your authorized dealer or service center for assistance.

**! WARNING**

Always shut off the engine and allow it cool down before carrying out any work on the lawn mower.

Disengage drive clutches before starting the engine. Stop the engine, whenever you leave the lawn mower and before refueling. Reduce the throttle setting after engine is shut down, and if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of mowing.

## Slope operation

**! WARNING**

To cut grass on slopes can be dangerous. Do not use the product on ground that has slopes more than 15°, otherwise serious injury may result.

- If operating a walk behind mower on a slope more than 15°, it is extremely difficult to maintain your footing and you could slip, result in serious injury.
- Operate WALK-BEHIND mower across the fact of slopes, never up and down, Exercise extreme caution when changing direction on slopes.
  - Watch for holes, ruts, hidden objects, or bumps. Tall grass can hide obstacles.
  - Always be sure of your footing. A slip and fall can cause serious personal injury. If you feel you and losing your balance release the blade control handle immediately and the blade will stop in less than 3 seconds.
  - Do not tilt the lawnmower when starting the engine or switching on the motor, except
  - If the lawnmower has to be tilted for starting. In the case, do the tilt if more than absolutely necessary and lift only the part which is away from the operator.
  - Do not start the engine when standing in front of the discharge chute.
  - Do not mow near drop-offs, ditches or embankments. The operator could lose footing of balance.
  - Mowing on a slope when the grass is damp or wet could cause you to slip, fall, and lose control of the mower. Never operate the mower in wet grass.

**! NOTICE**

*Mowing on steep slopes can starve the engine of oil, and this could cause engine damage.*

- Keep all four wheels on the ground, and be careful to avoid losing your footing and your control of the mower. Keep a firm grip on the handlebar, and walk, never run, with the mower.
- If stuck, do not kick or shove the mower with your foot. Use the handlebar to control the mower.

## Children

- Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the mower and the mowing activity. Never assume that children will remain where you last saw them.
- Keep children out of the mowing area and under the watchful care of a responsible adult other than the operator.
- Be alert and turn mower off if a child enters the area.
- Before and while moving backwards, look behind and down for small children or other objects.
- Never allow children to operate the mower.
- Use extreme care when approaching blind corners, shrubs, trees, or other objects that may obscure your vision of a child or hazard.

## After finishing your work

- Always clean dust and dirt off the machine. Do not use any grease solvents for this purpose.
- Do not use a pressure washer to clean lawn mower. The solid jet of high pressure water may damage parts of the machine.
- When the machine is not in use, shut it off so that it does not endanger others. Secure it against unauthorized use.
- If the fuel tank has to be drained, this should be done outdoors.

## Assembly

**! WARNING**

Always shut off the engine and allow it cool down before carrying out any work on the lawn mower.



Always wear appropriate gloves when handling the cutting attachments, in order to protect your hands from injury. The cutting blade is sharp and can cut you even when it is not moving!

Your lawn mower requires some assembly. This machine ships from our factory without engine oil. It must be properly serviced with fuel and oil before operation. If you have any questions regarding the assembly of your lawn mower, please contact local authorized dealer or service center.

Proper PPE are required when you unpack the carton and perform the assembly work.



You may need pair of pliers (not necessary, but helpful), unleaded gasoline, engine oil, etc.

## Unpack the package

1. Remove staples, break glue on top flaps, or cut tape at carton end and peel along top flap to open carton.
2. Remove loose parts if included with unit (i.e. owner's manual, etc).
3. Cut along dotted lines and lay carton down flat.
4. Remove packing material.
5. Roll or slide unit out of carton. Check carton thoroughly for loose parts.

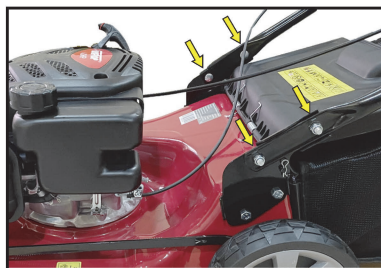
- GLM18-CT139-H, GLM18-CT139-S



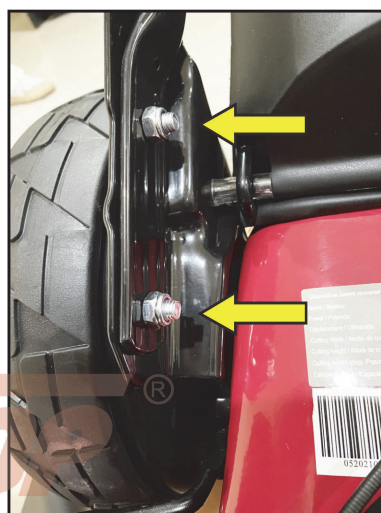
- GLM21-CT196-H, GLM21-CT196-S



- GLM18-CT139-H, GLM18-CT139-S (nuts are located outside)



- GLM21-CT196-H, GLM21-CT196-S (nuts are located inside)



3. Position the upper handle on the lower handle, install the handle knobs with the corresponding bolts and tighten them firmly by hand.

## Set-up instructions

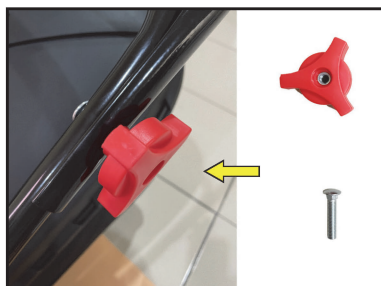
**WARNING**  
Folding or unfolding the handle improperly can damage the cables, causing an unsafe operating condition.

**NOTICE**  
*This unit is shipped WITHOUT GASOLINE or OIL in the engine. Be certain to service engine with gasoline and oil as instructed in the separate engine manual before operating your mower.*

**NOTICE**  
*Do not damage the cables when folding or unfolding the handle. If a cable is damaged, contact your authorized or service center.*

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

1. Remove the grass bag from the unit.
2. Using round-head carriage bolts and nuts to fix lower handle with the bracket on cutting deck.



4. Pull the recoil starter handle, and put the rope in the rope guide on upper handle.

**information**  
*To start the engine safely and easily whenever you use the machine, install the recoil-starter rope in the rope guide.*



5. Lift the rear flap, and then attach the grass catcher to the rear flap axle.
- GLM18-CT139-H, GLM18-CT139-S



- GLM21-CT196-H, GLM21-CT196-S



### Throttle cable ASSY

The throttle cable ASSY is attached to the upper handle with screw and nut. The throttle cable ASSY is used to adjust the speed of the unit. If the handle of the throttle cable is put forward, the speed of the unit is accelerated.



### Blade control lever and cable

The blade control lever is mounted on the upper handle, and the cable is placed along the left side handle bar. The cable guide end is fixed on the handlebar with two nuts, and the cable end is connected with the blade control lever.



### Spark plug

Make certain the metal cap on the end of the spark plug wire is fastened securely over the metal tip on the spark plug.

### Engine oil

#### NOTICE

*New lawn mower has no engine oil in crankcase when they are delivered out of factory.*

*Do not attempt to crank or start the engine before it has been properly filled with the recommended type and amount of engine oil, otherwise damage to the lawn mower may result.*

*Always check the engine oil level before starting the engine, on a level surface.*

#### NOTICE

*The recommended engine oil type is SAE 10W-30, oil crankcase capacity is 0.6L.*

### Add engine oil

1. Place the lawn mower on a flat level surface.
2. Clean the oil gauge dipstick/cap and the area around it to ensure that no dirt falls into the crankcase.

- GLM18-CT139-H, GLM18-CT139-S



- GLM21-CT196-H, GLM21-CT196-S



3. Turn the oil gauge dipstick/cap counterclockwise, remove it and clean it with a clean cloth.

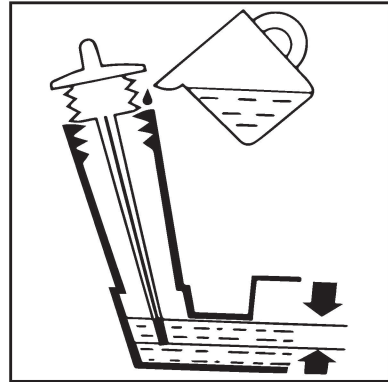
- GLM18-CT139-H, GLM18-CT139-S



- GLM21-CT196-H, GLM21-CT196-S



4. Add engine oil into the crankcase through the oil gauge dipstick/cap installation port (a fuel funnel may be needed here). Do not overfill.
5. Fully reinsert the oil gauge dipstick into the oil tank to give a correct picture of the oil level.
6. Pull it out to check the oil level on the dipstick according to the label adhesive beside the oil filler port.



7. If the oil level is low, fill with engine oil and do a check of the oil level again.
8. Reposition the oil gauge dipstick and tighten it by turning clockwise.

## Fuel and fueling

### NOTICE

*New lawn mower has no engine oil in crankcase when they are delivered out of factory.*

*Do not attempt to crank or start the engine before it has been properly filled with the recommended type and amount of engine oil, otherwise damage to the lawn mower may result.*

*Always check the engine oil level before starting the engine, on a level surface.*

### Fuel

### WARNING

Gasoline is very flammable. Avoid smoking or bringing any flame or sparks near fuel. Make sure to stop the engine and allow it cool down before refueling the machine. Select outdoor bare ground for fueling and move at least 3 m (10 ft) away from the fuming point before starting the engine.

The recommended fuel type is regular unleaded gasoline with a minimum octane rating of 89 and an ethanol content of less than 10% by volume.

This is a 4-cycle engine and does not require a gasoline/oil mixture. There is a separate reservoir for gasoline and a separate reservoir for oil.

### NOTICE

*Do not use mixed oil with gasoline for this machine*

- Exhaust emission are controlled by the fundamental engine parameters and components (for example,

carburetion, ignition timing and port timing) without addition of any major hardware or the introduction of an inert material during combustion.

- If you use a gasoline of a lower octane value than prescribed, there is a danger that the engine temperature may rise and an engine problem such as piston seizing may consequently occur.
- Unleaded gasoline is recommended to reduce the contamination of the air for the sake of your health and the environment.
- Poor quality gasoline or oil may damage sealing rings, fuel lines or fuel tank of the engine.
- Take care when handling gasoline. Avoid direct contact with the skin and avoid inhaling fuel vapor.

## Fueling

1. Before fueling, clean the filler cap and the area around it to ensure that no dirt falls into the fuel tank.

- GLM18-CT139-H, GLM18-CT139-S



2. Turn the fuel cap by turning it counterclockwise, loose a bit of the fuel cap carefully so as to allow any pressure build-up in the fuel tank to release slowly. Never remove the fuel cap when engine is running!

- GLM18-CT139-H, GLM18-CT139-S



- GLM21-CT196-H, GLM21-CT196-S



3. Use clean, fresh, regular unleaded fuel with a minimum octane rating of 87 and an ethanol content of less than 10% by volume.
4. Slowly add fuel to the tank. Do not overfill. Fuel can be forced out of the tank as a result of expansion if it is overfilled, and can affect the stable running condition of the machine. When filling the tank, it is recommended to leave enough space for the fuel to expand. A minimum 13mm (0.5inch) space below the bottom of the filler neck is to provide space for expansion.
5. Tighten the fuel cap clockwise securely after fuelling.
6. Wipe away any spilled fuel.

## Start and stop the engine

### ! WARNING

To reduce the risk of fire and burn injuries, start the engine at least 10feet (3m) from the fueling spot, outdoors only.

### ! WARNING

The cutting attachment has very sharp edges and they will start rotating upon the engine starts. Touching them may lead to severe personal injury. Avoid touching cutting attachment whenever possible, and always wear gloves to protect hands.

### ! WARNING

To reduce the risk of serious or even fatal injury:

- Never allow children or unauthorized persons access to the machine.
- Do not allow children or other unauthorized persons to attempt to start or otherwise use the machine.
- Never leave the machine unattended while working or during work breaks.
- After work, store the machine in a safe, secure location out of the reach of children and other unauthorized persons.
- Observe safety precautions and instructions.

## Pre-operation checklist

Follow the steps below before using the machine every time:

1. Check and make sure you wear proper clothing and PPE.
2. Check the starting location.
3. Keep children or other unauthorized persons well away from work area where you plan to start the machine.
4. Make sure that all the parts including cutting attachment and deflector are installed properly, and there is no a broken part or lacks of any part.
5. Check the fuel level to make sure there is sufficient fuel in the fuel tank.
6. Check the oil level to make sure there is sufficient oil in the oil tank.
7. Check there is no leakage of fuel and oil.
8. Make sure that the cutting attachments are not touching ground or any other obstacles.
9. Double-check and observe all safety precautions and instructions in this manual prior to starting the machine.

## Start the engine

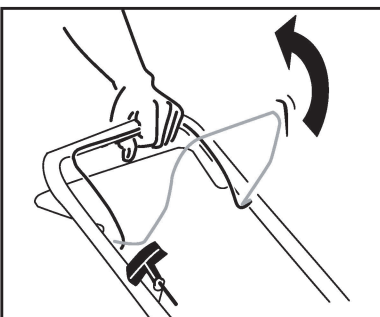
### **WARNING**

When starting the engine, make sure that your body does not contact with the muffler. A hot muffler can cause serious burns.

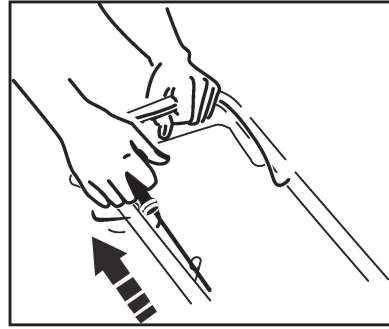
1. Move the throttle control on the engine to the fast rabbit position.
2. Prime engine until fuel is visible and flows freely in the clear fuel tank return line, pump bulb additional 6~8 times.



3. Stand behind the mower. Use one hand to hold the brake level in the operating position; use the other hand to hold the recoil-starter.



4. Grip the starter rope handle securely, pull it slowly until resistance is felt, then pull it rapidly until start the engine (or 5 pulls maximum).



### **NOTICE**

Do not pull out the starter rope all the way, otherwise it might break.

Do not let the starter rope snap back by itself. Guide it slowly back into the housing, so that the starter rope can rewind properly.

## Stop the engine

1. Release the blade control level to stop the engine and the cutting blade.



2. Clean your mower after each mowing.

## Operation

### **WARNING**

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

### **NOTICE**

For best results raise the cutting position until it is determined which height is best for your lawn.

## General mowing tips

- Inspect the area where you will use the machine and remove all objects that the machine could throw.

- Avoid striking solid objects with the blade. Never deliberately mow over any object.
- If the machine strikes an object or starts to vibrate, immediately shut off the engine, wait for all moving parts to stop, disconnect the wire from the spark plug, and examine the machine for damage.
- For best performance, install a new CRAFTOP blade before the cutting season begins or when necessary.

## Adjust the cutting height adjustment lever

The Cutting height adjustment lever is used to adjust the distance of blade from grass-ground.

### NOTICE

Your mower is shipped with the cutting height in the lowest position. Adjust the cutting height as follows.

### WARNING

Adjusting the cutting-height levers could bring your hands into contact with a moving blade and result in serious injury.

- Shut off the engine and wait for all moving parts to stop before adjusting the cutting height.
- Do not put your fingers under the housing when adjusting the cutting height.

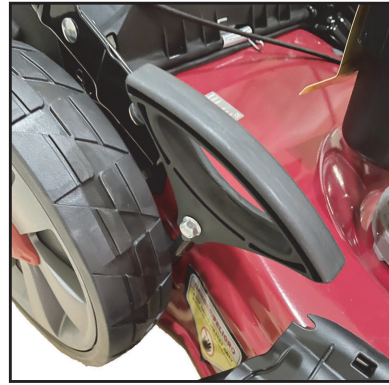
The cutting height adjustment levers are located above the right rear wheels. To adjust the cutting height, pull the lever out and away from the mower and then move it forward or backward to select a new cutting height.

- Move the cutting height lever rearward to increase the cutting height.
- Move the cutting height lever forward to decrease the cutting height.

- GLM18-CT139-H, GLM18-CT139-S



- GLM21-CT196-H, GLM21-CT196-S



### NOTICE


For rough or uneven lawns, move the height adjustment lever to a higher position. This will help stop scalping.

## Self-propelled mower operation

If the mover is the Self-propelled, please pay more attention to the points as follows.

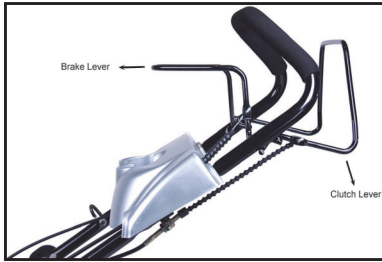
Before starting, please check whether there is any inter twist around the transmission belt or not.

Please tidy up the mower, especially on the belt and its wheels.

1. Before starting, please put the height-adjuster at the lowest grade. 
2. Before starting, please keep the throttle cable ASSY at the middle speed.



3. Grip the BLADE CONTROL LEVER with the upper handle, and then start the engine.
4. Grip CLUTCH CONTROL LEVER together with the upper handle, and then start the engine.
5. When changing the mowing direction, please release the CLUTCH CONTROL LEVER firstly, and then make a turn.
6. When the grass bag/catcher is full, please release the CLUTCH CONTROL LEVER, and then release the BLADE CONTROL LEVER.



**⚠ WARNING**  
 The blade continues to rotate for a few seconds after the engine is shut off.

### Using your rotary mower

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

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

For a healthier lawn, never cut off more than one-third of the total length of the grass. Your lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of mowing or mulching.

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

### Use the grass bag/catcher

1. Stop the engine and wait for all moving parts to stop.
2. Lift and hold the rear flap, connect the grass bag/catcher onto the rear flap axle.
3. Lower the rear flap to fix the grass bag/catcher in position.

- GLM18-CT139-H, GLM18-CT139-S



- GLM21-CT196-H, GLM21-CT196-S



### Use the mulch function

1. Stop the engine and waiting for all moving parts stop.
2. Lift and hold the rear flap and take the grass bag off the mower.
3. Insert the plastic mulch plug and lower the rear flap.



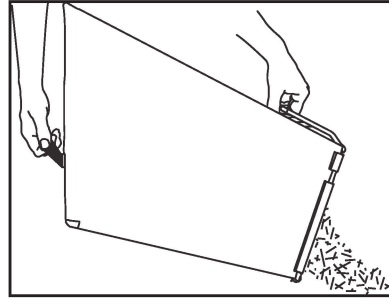
### Use the side discharge function

1. Repeat the mulching function step 1 to 3.
2. Lift the side discharge flap, and insert the side discharge chute.
3. Lower the side discharging flap to keep the side discharge chute in position.

- GLM18-CT139-H, GLM18-CT139-S



The box will open and the grass clippings will fall out. When replacing your grass catcher be sure the top of the box rests on the wire support between the handles.



- GLM21-CT196-H, GLM21-CT196-S



### Use the rear discharge function

1. Stop the engine and wait for all moving parts to stop.
2. Remove grass bag, mulch plug, and side discharging chute from the mower, and closed the side discharge flap.
3. Lift the rear flap, connect the rear discharge chute to the rear flap axle and then lower the rear flap to fix the rear discharge chute in position.



### Emptying your grass catcher

Holding the grass catcher by both the rear handle and the lower handle, lift it straight up. The chute door will move the rope out of the way of the box. Remove the box from the bagging adaptor on the mower. While holding the lower handle, lift up the rear section of the grass catcher.



## Maintenance and care

### Maintenance schedule

<b>IMPORTANT!</b> Time intervals shown are maximum. Actual use and your experience will determine the frequency of required maintenance.		Before starting to work	Daily and/or at the end of work	Whenever tank is refilled	Weekly	Monthly	Yearly	if there is a failure	if there is a damage	As required
System / Component	Maintenance Procedure									
Complete machine	Visual inspection (Condition, leak)	√		√						
	Clean		√							
	Replace any damaged parts	√						√	√	√
Controls (throttle cable ASSY, clutch control lever)	Function test	√		√						
Air filter	Inspect					√		√		
	Clean					√		√		√
	Replace						√		√	
Cutting blade	Visual inspection	√								
	Clean		√							√
	Sharpen									√
	Replace								√	√
Engine oil	Inspect	√								
	Add									√
	Change						√			√
Fuel tank	Clean								√	
Spark Plug	Inspect						√			
	Clean							√		√
	Adjust									√
	Replace								√	√
Fasteners, inclusive of Bolts, Screws, Nuts	Inspect	√								
	Tighten									√
	Replace									√
Safety Information Label	Replace							√		

#### WARNING

Moving parts can amputate fingers or cause severe injuries. Keep hands, clothing and loose objects away from all moving attachments.

Always stop engine, disconnect spark plug, and make sure all moving parts have come to a complete stop before removing obstructions, clearing debris, or servicing the unit.

Allow the machine to cool down before performing maintenance service. Wear gloves to protect hands from sharp edges and hot surfaces.

Before cleaning, inspecting or repairing the machine, make sure that engine has been stopped and cooled down. Disconnect the spark plug to prevent accidental starting.

#### NOTICE

*SPECIAL TRAINING IS REQUIRED to service and repair lawn mowers. This is especially true of lawn mower safety equipment. If your lawn mower fails any of the checks described below take it to your authorized dealer. When you buy any of our products we guarantee the availability of professional repairs and service. If the retailer who sells your lawn mower is not a authorized service center, ask him for the address of your nearest service center.*

**NOTICE**  
When tipping the unit, empty the fuel tank and keep the engine spark plug side up. Never tip the mower more than 90 degrees and do not leave the mower tipped for any length of time. Oil can drain into the upper part of the engine causing a starting problem.

## Engine

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

Maintain engine oil as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Service air cleaner every 25 hours under normal condition. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicate that the air cleaner should be serviced. To service the air cleaner, refer to the separate engine manual packed with your unit.

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season, check engine manual for correct plug type and gap specifications.

Clean the engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation which is essential to engine performance and life. Be certain to remove all grass, dirt and combustible debris from muffler area.

## Deck

The underside of the mower deck should be cleaned after each use to prevent a buildup of grass clippings, leaves, dirt or other matter. If this debris is allowed to accumulate, it will invite rust and corrosion, and may prevent proper mulching, discharge or bagging.

The deck may be cleaned by tilting the mower and scraping clean with a suitable tool (make certain the spark plug wire is disconnected).

## Air filter

The air filter must be regularly cleaned from dust and dirt in order to avoid:

- Carburetor malfunctions.
- Starting problems.
- Engine power reduction.
- Unnecessary wear on the engine parts.
- Abnormal fuel consumption.

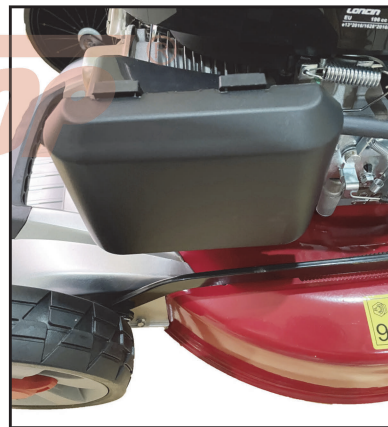
Clean the air filter daily or more often if the air is exceptionally dusty in the working area.

1. Shut off the engine, remove the ignition key (if equipped), and wait for all moving parts to stop.
2. Disconnect the spark-plug wire from the spark plug
3. Brush accumulated dirt from air filter area.

- GLM18-CT139-H, GLM18-CT139-S



- GLM21-CT196-H, GLM21-CT196-S



4. Disassemble the air filter by removing the air filter cover (A).

- GLM18-CT139-H, GLM18-CT139-S



- GLM21-CT196-H, GLM21-CT196-S



5. Brush dirt from inside air filter cover (A) and housing (C), clean the air filter (B) by brushing or shaking it. A more thorough cleaning of the air filter is obtained by washing it in water and soap.
6. Replace air filter if it is damaged, fuel soaked, very dirty, or the rubber sealing edges are deformed.
7. Clean the filter element in warm, soapy water as required.
8. Dry the air filter completely before re-installing.
9. Install air filter and cover. When reassembling, make sure that the filter is tight against the filter housing.

**! NOTICE**

*A damaged air filter must always be replaced.*

### Change engine oil

**! NOTICE**

*Change engine oil when the engine is warm.*

1. Place the lawn mower on a flat level surface.
2. Turn off the engine
3. Place an oil pan under the drain oil port.
4. Clean the oil gauge dipstick/cap and the area around it to ensure that no dirt falls into the crankcase.

- GLM18-CT139-H, GLM18-CT139-S



- GLM21-CT196-H, GLM21-CT196-S

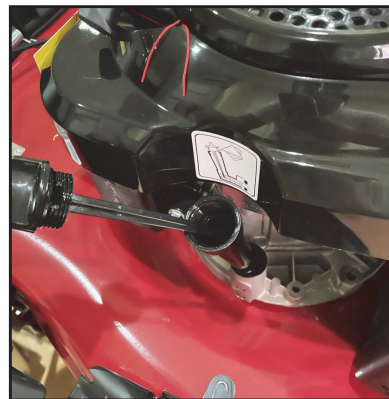


5. Turn the oil gauge dipstick/cap counterclockwise, remove it and clean it with a clean cloth.

- GLM18-CT139-H, GLM18-CT139-S



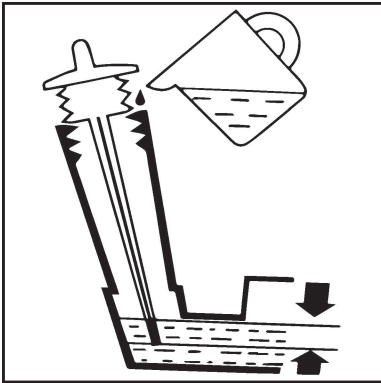
- GLM21-CT196-H, GLM21-CT196-S



6. Tip the machine onto its side (so that the air filter is up) to drain the used oil from the oil-fill tube.



7. After draining the used oil, return the machine to the operating position.
8. Add engine oil into the crankcase through the oil gauge dipstick/cap installation port (a fuel funnel may be needed here). Do not overfill.
9. Fully reinsert the oil gauge dipstick into the oil tank to give a correct picture of the oil level.
10. Pull it out to check the oil level on the dipstick according to the label adhesive beside the oil filler port.



11. If the oil level is low, fill with engine oil and do a check of the oil level again.
12. Reposition the oil gauge dipstick and tighten it by turning clockwise.

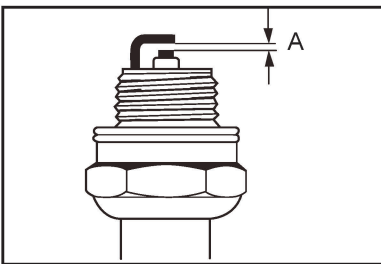
## Spark plug

The spark plug condition is influenced by:

- An incorrect carburetor setting.
- Wrong fuel type
- A dirty air filter.

These factors cause deposits on the spark plug electrodes, which may result in malfunction and starting difficulties. If the engine is low on power, difficult to start or runs poorly at idling speed, always check the spark plug first.

If the spark plug is dirty, clean it and check the electrode gap. Readjust if necessary. The correct electrode gap (A) is 0.7~0.8 mm.

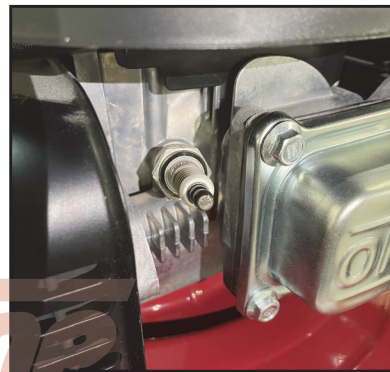


The spark plug should be replaced after about a month in operation or earlier if the electrodes are badly eroded.

1. Remove spark plug and check for fouling, worn and rounded center electrode.



2. Clean the plug or replace with a new one. Do not clean it with sand blast. Remaining sand will damage the engine.



3. According to Technical Specification, adjust spark plug gap by bending outer electrode.
4. Reinstall the spark plug, tighten it securely with a socket wrench.

## NOTICE

Always use the recommended spark plug type. An incorrect spark plug can severely damage the piston/cylinder.

## Replacing the blade

When removing the cutting blade for sharpening or replacement, protect your hands with a pair of heavy gloves or use a heavy rag to hold the blade.

1. Remove the bolt and the washer that hold the blade and the blade adapter to the engine crankshaft.
2. Remove the blade and the adapter from the crankshaft.

## WARNING

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

When sharpening the blade, follow the original angle of grind as guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds.

It may cause damage to the mower, and could break causing personal injury.

The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly. It is recommended that the blade always be removed from the adapter when testing for balance. Before reinstalling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil.

1. Be sure to install the blade with the side of the blade marked with part number facing the ground when the mower is in the operating position.
2. Slide the blade adapter on to the engine crankshaft.
3. Place the blade on the adapter. Be certain the blade is aligned with and seated on the blade adapter flanges.
4. Place washer on blade. Make sure the notches on the blade bell support are aligned with the small holes in the blade.
5. Replace hex bolt.
6. Tighten hex bolt to torque: 45~50 Nm (33~36 ft.lb).
7. Three disc bolts: 9~11Nm(6.6-8 ft.lb).
8. Tip mounting bolt: 20-25Nm (15-18 ft.lb).



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

## Engine lubrication

**WARNING**  
The muffler and surrounding covers become hot during operation. Always keep exhaust area clear of flammable debris during transportation or when storing, otherwise serious property damage or personal injury may result.

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of service work on the lawn mower.

## Wheels lubrication

Lubricate the wheels at least once a season with light oil (or engine oil). Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil.

## Repair

Owners of this machine should only carry out the maintenance and service work described in this owner's manual. CRAFTOP recommends that other repair work be performed by authorized dealer and service center using genuine CRAFTOP replacement parts.

## Storage

**DANGER**  
Do not store the machine in enclosure where fuel fumes may accumulate or reach an open flame or spark, otherwise serious personal injury may result.

**WARNING**  
The muffler and surrounding covers become hot during operation. Always keep exhaust area clear of flammable debris during transportation or when storing, otherwise serious property damage or personal injury may result.

**WARNING**  
Cutting attachment is very sharp. Touching them may lead to severe personal injury. Avoid touching moving cutting attachment, and always wear gloves to protect hands.

**NOTICE**  
Old fuel in the fuel tank is the leading cause of hard starting. Do not store the fuel without fuel stabilizer more than 30 days, and do not store stabilized fuel beyond the duration recommended by the fuel-stabilizer manufacturer.

Do not store your machine for periods of time 30 days or longer without performing protective storage maintenance which includes the following procedure:

1. On the last refueling of the year, add fuel stabilizer to the fuel as directed on the label.
2. Dispose of any unused fuel properly. Recycle it according to local codes or use it in your automobile.
3. Run the machine until the engine shuts off from running out of fuel.
4. Start the engine again and allow it to run until it shuts off. When you can no longer start the engine, it is sufficiently dry.
5. Disconnect the wire from the spark plug and connect the wire to the retaining post (if equipped).
6. Remove the spark plug, add 30 ml (1 fl oz) of engine oil through the spark-plug hole, and pull the starter rope slowly several times to distribute oil throughout the cylinder to prevent cylinder corrosion during the off-season.
7. Loosely install the spark plug.
8. Tighten all nuts, bolts, and screws.
9. Clean and lubricate mower thoroughly as described in the lubrication instructions.
10. Coat mower's cutting blade with chassis grease to prevent rusting.

11. Store the machine in a dry, dust free place, out of the reach of children and other unauthorized person. Do not store next to corrosive materials, such as fertilizer.

**!** NOTICE

*When storing any type of power equipment in a poorly ventilated or metal storage shed, care should be taken to rust-proof the equipment. Using a light oil silicone, coat the equipment, especially cables and all moving parts.*

**!** NOTICE

*Always store and transport lawn mowers in a stable, horizontal position. Support engine, drive tube and cutting head to prevent excessive flexing, which may cause damage to these components. Always install cutting blade cover when transporting or storing the machine.*

## Disposal

Observe all country-specific and local waste disposal rules and regulations.

CRAFTOP products must not be thrown in the garbage bin. Take the product, accessories and packaging to an approved disposal site for environment friendly recycling.


Contact your local authorized dealer or service center for the latest information on waste disposal.

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## Troubleshooting guide

### DANGER

Fuel vapors are extremely flammable and may cause fire and/or explosion. Never test for ignition spark by grounding spark plug near cylinder plug hole, otherwise serious personal injury may result.

Problem	Cause	Solution
Engine fails to start	Blade control handle disengaged Spark plug wire disconnected. Throttle control lever not in correct starting position Fuel tank is empty, or stale fuel Blocked fuel line Faulty spark plug. Engine flooded.	Engage blade control handle. Connect wire to spark plug. Move throttle lever to FAST or START position. Fill tank with clean, fresh gasoline. Clean fuel line. Clean, adjust gap or replace Crank engine with throttle in FAST position.
Engine runs erratic	Unit running in START position. Spark plug wire loose. Blocked fuel line or stale fuel. Vent in gas cap plugged. Water or dirt in fuel system. Dirty air cleaner. Carburetor out of adjustment.	Move throttle lever to FAST position. Connect and tighten spark plug wire. Clean fuel line; fill tank with clean, fresh gasoline. Drain fuel tank. Refill with fresh fuel. Clean vent Clean air cleaner. Adjust carburetor.
Engine overheats	Engine oil level low. Air flow restricted Carburetor not adjusted properly	Fill crankcase with proper oil. Remove blower housing and clean. Adjust carburetor. 
Occasional skip (hesitates) at high speed	Spark plug gap too close.	Adjust gap to 0.030".
Idles poorly	Spark plug fouled, faulty or gap too wide. Carburetor improperly adjusted. Dirty air cleaner.	Reset gap to .030" or replace spark plug. Adjust carburetor. Clean air cleaner.
Excessive vibration	Cutting blade loose or unbalanced Bent cutting blade.	Tighten blade and adapter. Balance blade. Replace blade.
Mower will not mulch grass	Engine speed too low Wet grass. Excessively high grass. Dull blade.	Set throttle between 3/4 and full throttle. Do not mow when grass is wet, wait until later to cut. Mow once at a high cutting height, then mow again at desired height or make a narrower cutting swath (1/2 width) Sharpen or replace blade.
Uneven cut position	Wheels not positioned correctly. Dull blade.	Place all four wheels in same height. Sharpen or replace blade.

### information

If your lawn mower seems to need further service, please consult with your local authorized dealer or service center.

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# Manual del usuario

## Cortacésped de gasolina

**GLM18-CT139-H, GLM18-CT139-S**

**GLM21-CT196-H, GLM21-CT196-S**



EXPERTOS  
EN EQUIPOS JARDINERIA  
Y AGRICULTURA

ESPAÑOL  
VERSIÓN: 00-202207

## **Le agradecemos que haya comprado Cortacéspedes de gasolina CRAFTOP**

Estos cortacéspedes de gasolina proporcionan tecnología avanzada al incorporar muchas características convenientes para que pueda realizar su trabajo diario de corte.

**Antes de intentar usar estas cortadoras de césped, lea este manual detenidamente hasta que comprenda completamente y pueda seguir todas las reglas de seguridad, precauciones e instrucciones de operación y mantenimiento. Le ayudará tanto a familiarizarse con estos cortacéspedes como a reconocer y evitar situaciones que podrían ponerlo en peligro a usted y a los demás. ¡El uso negligente o inadecuado puede causar lesiones graves o incluso mortales!!**

Si tiene alguna pregunta sobre su cortacésped y este manual, comuníquese con el distribuidor autorizado o el centro de servicio de CRAFTOP de su área. Siempre agradecen sus preguntas, sugerencias y críticas constructivas.

Esperamos que disfrute de estos cortacéspedes y le deseamos muchos años de trabajo de corte seguro y agradable.

**CRAFTOP CANADA LTD.**

The logo for CRAFTOP is displayed in a stylized, bold, orange font. The word "CRAFTOP" is written in a slanted, italicized style. A registered trademark symbol (®) is located to the right of the word.

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## Guía para usar este manual

Este Manual del usuario se refiere a una cortadora de césped CRAFTOP, también denominada máquina, producto o unidad en este Manual del usuario.

Toda la información, especificaciones, descripciones e ilustraciones de este manual son tan precisas como se sabe en el momento de la publicación, pero están sujetas a cambios sin previo aviso. Debido al desarrollo continuo del producto, puede haber diferencias entre su máquina y la información de este manual. No se pueden derivar obligaciones o compromisos legales de la información, especificaciones, descripciones o ilustraciones de este manual.

Las ilustraciones son solo para orientación y se utilizan simplemente para ayudar a explicar las descripciones e instrucciones del texto. Las ilustraciones pueden incluir equipos y accesorios opcionales, y es posible que no incluyan todo el equipo estándar.

Algunas señales o símbolos en la máquina pueden ser un poco diferentes se refieren a requisitos de certificación especiales para ciertos mercados.

Cualquier modificación técnica a la máquina que se haya introducido después de la fecha límite editorial, consulte a su distribuidor local para obtener más información complementaria.

Todas las precauciones e instrucciones de seguridad descritas en este manual deben seguirse durante la operación de la cortadora de césped, y también se deben seguir todas las regulaciones, normas y ordenanzas de seguridad federales, estatales y locales aplicables.

No venda, preste o alquile la máquina sin este manual del usuario. Siempre asegúrese de incluir este manual del usuario junto con la máquina, y asegúrese de que cualquier persona que lo use entienda toda la información y siga todas las instrucciones contenidas en este manual.

Mantenga este manual en un lugar seguro para referencias futuras y regulares y para solicitar piezas de repuesto.

## Señales y símbolos en este manual

### PELIGRO

Los textos con este símbolo contienen información sobre situaciones peligrosas que causarán la muerte o lesiones graves si no se evitan.

### ADVERTENCIA

Los textos con este símbolo contienen información sobre situaciones peligrosas que podrían causar la muerte o lesiones graves si no se evitan.

### PRECAUTION

Los textos con este símbolo contienen información sobre situaciones peligrosas que podrían causar lesiones menores o moderadas si no se evitan.

### AVISO

Textos con este símbolo información sobre la situación que podría causar daños a la cortadora de césped si no se evita.

### Información

Los textos con este símbolo contienen información complementaria.

## Lea y comprenda el Manual del propietario.

Es muy importante que lea detenidamente este Manual del usuario, asegúrese de que comprende completamente y puede seguir todas las reglas de seguridad, precauciones, instrucciones de operación y mantenimiento antes de intentar usar esta cortadora de césped, ¡no hacerlo puede causar lesiones graves o incluso fatales!

Se deben seguir las precauciones de seguridad especiales para reducir las lesiones personales debido a la muy alta velocidad de su accesorio de corte.

Use ropa adecuada.

Use protección para los ojos y los oídos.

Siempre use equipos de protección personal apropiados para la operación de la cortadora de césped, incluida la protección ocular y la protección de los oídos.





### Protección de manos.

Siempre use guantes apropiados para la operación de la cortadora de césped.

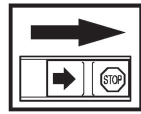


Lea atentamente las instrucciones y asegúrese de entenderlas antes de usar la cortadora de césped.



### Se requiere protección para los pies.

Zapatos de punta de acero con suela antideslizante son requeridos en el área de trabajo.



Apague el motor moviendo el interruptor de parada a la posición STOP antes de realizar cualquier revisión o mantenimiento.



### Peligro de incendio.

Riesgo de incendio.  
Material altamente inflamable.



Mantenga alejados a los transeúntes.



### Prohibido fumar.

No fume en esta área.



Al reparar, desconecte la bujía y luego repárela de acuerdo con el Manual de funcionamiento.



### Superficie caliente.

No tocar.



### Peligro de corte/desmembramiento.

Preste más atención a las manos y los pies del operador para evitar lesionarse.



Se requiere una limpieza regular.



Comprobación visual.



No opere la cortadora de césped cuando esté lloviendo.

Al cortar el césped, use las gafas y tapones para los oídos para proteger al operador.



Se deben usar gafas protectoras o una visera.

## Señales y símbolos en la máquina

A efectos de la seguridad en la operación y el mantenimiento, los significados de las señales y símbolos pueden estar adheridos o grabados en la máquina.



Inspeccione el área de trabajo: Piedras, piezas de metal u otros objetos sólidos pueden ser arrojados a más de 15 metros y causar lesiones personales o dañar el accesorio de corte y la propiedad.



¡PRECAUCIÓN! ¡Las cortadoras de césped pueden ser peligrosas! El uso descuidado o incorrecto puede resultar en lesiones graves o incluso fatales para el operador u otras personas.

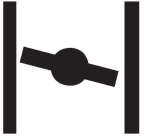


Calcomanía de nivel de ruido.



El puerto para recargar combustible de gasolina.

Posición: Tapa del tanque de combustible



**Control de arranque.**

Arranque cerrado.

Posición de "arranque en frío".



**Control de arranque.**

Arranque abierto.

Posición de arranque.

### Calcomanía de seguridad



Otras señales o calcomanías en la máquina se refieren a requisitos especiales de certificación para ciertos mercados.

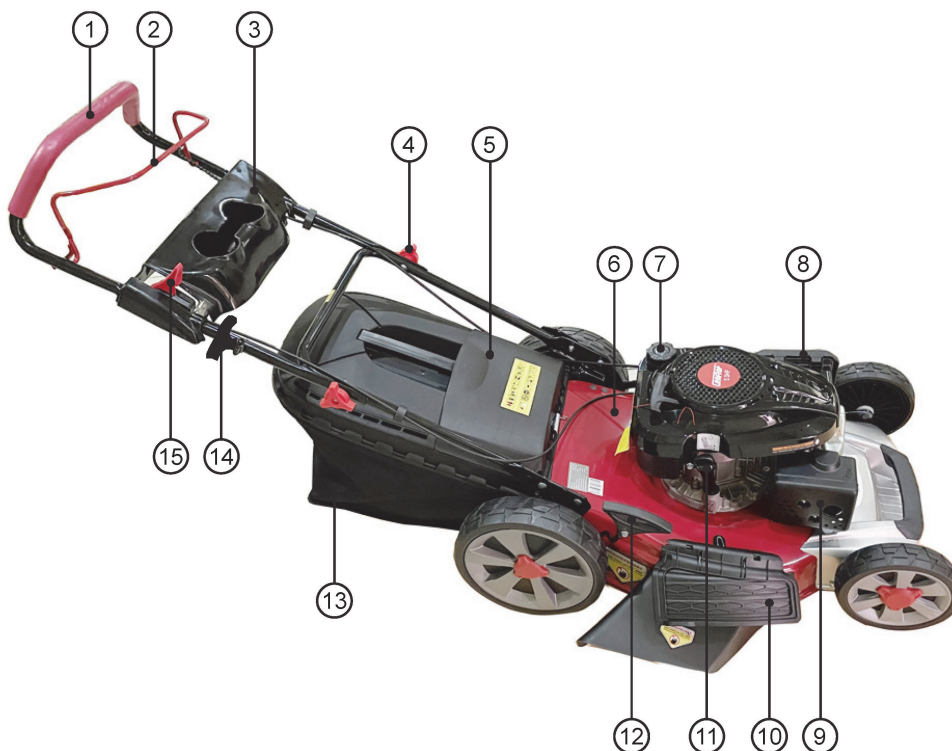
## Descripción general del producto

GLM18-CT139-H, GLM18-CT139-S



1	Manubrio	5	Atrapador de hierba / bolsa	10	Plataforma de corte
2	Palanca de control de la cuchilla	6	Palanca de ajuste de altura de corte	11	Filtro de aire
3	Mango de arranque de retroceso	7	Tapa de llenado de aceite	12	Tapa del tanque de combustible
4	Interruptor de control del acelerador	8	Silenciador	13	Protector de descarga trasero
		9	Deflector de descarga lateral y tapa	14	Perilla de estrella

## GLM21-CT196-H, GLM21-CT196-S



- |   |                                   |    |                                      |    |                                       |
|---|-----------------------------------|----|--------------------------------------|----|---------------------------------------|
| 1 | Manubrio                          | 6  | Plataforma de corte                  | 11 | Tapa del depósito de aceite           |
| 2 | Palanca de control de la cuchilla | 7  | Tapa del tanque de combustible       | 12 | Palanca de ajuste de altura de corte  |
| 3 | Soporte                           | 8  | Filtro de aire                       | 13 | Bolsa de césped                       |
| 4 | Perilla de estrella               | 9  | Silenciador                          | 14 | Mango de arranque de retroceso        |
| 5 | Protector de descarga trasero     | 10 | Deflector de descarga lateral y tapa | 15 | Interruptor de control del acelerador |

### Especificación técnica

Modelo			GLM18-CT139-H	GLM18-CT139-S	GLM21-CT196-H	GLM21-CT196-S
Artículo	Descripción	Unidad	Especificación			
General	Dimensión del paquete	mm	770x535x435		920x610x460	
	Peso neto	kg	31	33	36	38
	Peso bruto	kg	34	36	38	40
Conducir			Empuje manual	Autopropulsado	Empuje manual	Autopropulsado
Parámetro de corte	Ancho de corte	Pulgada mm	18 460		21 520	
	Altura de corte	mm	20~80		15~75	
	Ajuste de la altura de corte		Ocho (8) posiciones			

Modelo			GLM18-CT139-H	GLM18-CT139-S	GLM21-CT196-H	GLM21-CT196-S
Artículo	Descripción	Unidad	Especificación			
Receptor	Tipo de receptor		Tela		Tela + Plástico	
	Capacidad del receptor	L	60		65	
Cubierta	Material		Steel			
Ruedas	Tamaño	Pulgada	Delantero=7 / Rear=8		Delantero=8 / Rear=12	
Motor	Modelo No.		Loncina LC1P65FE		Loncina LC1P70FA	
	Tipo		Monocilíndrico, refrigerado por aire, 4 tiempos, OHV, motor vertical de gasolina			
	Potencia del motor	kW	2.4kW@3600rpm		4.0kW@3600rpm	
	Velocidad máxima del motor	rpm	3600			
	Desplazamiento	ml	139		196	
	Mineral del cilindro	mm	65		70	
	Golpe del pistón	mm	42		51	
	Carburador		Flotador			
	Sistema de encendido		T.C.I.			
	Tipo de arranque		Retroseso			
Bujía	Tipo		F7RTC			
	Espacio entre electrodos	Pulgada mm	0.028~0.031 0.7~0.8			
Combustible	Tipo		Gasolina sin plomo			
	Capacidad del tanque	ml	900		1000	
Aceite de motor	Tipo		SAE 10W-30			
	Capacidad del tanque	ml	500			
Nivel ruido de	Nivel de potencia acústica equivalente	dB(A)	≤70LWA		≤72LWA	

### Información

Las especificaciones, descripciones e ilustraciones de este manual son tan precisas como se sabe en el momento de la publicación, pero están sujetas a cambios sin previo AVISO.



## Precauciones e instrucciones de seguridad



Se deben seguir las precauciones especiales de seguridad cuando se trabaja con una cortadora de césped debido a la muy alta velocidad de su accesorio de corte. El uso descuidado o inadecuado puede causar lesiones graves o incluso fatales.



Antes de intentar usar esta cortadora de césped, lea este manual detenidamente hasta que comprenda completamente y pueda seguir todas las reglas de seguridad, precauciones, instrucciones de operación y mantenimiento.

### Precauciones de seguridad

Su cortacésped rotativo es una pieza de precisión de equipo de potencia, no un juguete. Por lo tanto, ejerza extrema PRECAUCIÓN en todo momento. Esta cortadora de césped de operador a pie con cuchillas giratorias está destinada a ser utilizada por propietarios de viviendas residenciales. Está diseñado principalmente para cortar césped en jardines bien mantenidos en propiedades residenciales. No lo use para ningún otro propósito. El uso de este producto para fines distintos a los previstos podría resultar peligroso para usted y los transeúntes.

#### DANGER

Su cortadora de césped fue construida para ser operada de acuerdo con las reglas de operación segura en este manual. Como con cualquier tipo de equipo de potencia, el descuido o error por parte del operador puede resultar en lesiones graves. Esta cortadora de césped es capaz de amputar manos y pies y lanzar objetos. El incumplimiento de las siguientes instrucciones de seguridad podría resultar en lesiones graves o la muerte.

#### ADVERTENCIA

- Siga todas las regulaciones, normas y ordenanzas de seguridad locales aplicables.
- Si no ha utilizado este tipo de cortadora de césped antes, haga que su distribuidor u otro usuario experimentado le muestre cómo operar su máquina.
- Debido a que una cortadora de césped es una herramienta para cortar de césped a alta velocidad, se deben observar algunas precauciones especiales para reducir el riesgo de accidentes y lesiones personales. El uso descuidado o inadecuado puede causar lesiones graves o incluso fatales.
- El uso de esta cortadora de césped puede ser peligroso. Las cuchillas de corte tienen muchos bordes afilados. Si el borde afilado entra en contacto con su cuerpo, lo cortarán, incluso si el accesorio de corte no se está moviendo.
- Preste especial atención a las fuerzas reactivas porque es muy peligroso.

- El escape de esta máquina puede contener sustancias químicas que el Estado de California sabe que causan cáncer, defectos de nacimiento u otros daños reproductivos.
- El ruido emitido por esta máquina puede estar restringido a determinadas horas por la normativa nacional o local.
- Esta máquina está diseñada para cortar césped. No lo use para otros fines, ya que el uso indebido puede resultar en lesiones personales o daños a la propiedad, incluidos daños a la cortadora de césped.
- Su cortadora de césped es una máquina operada por una sola persona. No permita que otras personas se encuentren en el área de trabajo general, incluso al comenzar. Detenga el motor inmediatamente si se le acercan.
- Nunca se debe permitir que los menores usen esta cortadora de césped. Solo las personas responsables que estén familiarizadas con estas reglas de operación segura deben poder usar su cortadora de césped.
- El accesorio de corte puede atrapar y lanzar objetos a una gran distancia y causar lesiones. No permita que otras personas se acerquen a la cortadora de césped al arrancar o cortar. Mantenga a los transeúntes, especialmente a los niños y animales fuera del área de trabajo. Mantenga a los transeúntes, niños y animales a un mínimo de 50 pies (15m) del área de trabajo. Además, mantenga esta distancia de otros objetos (vehículos, ventanas, etc.). Incluso manteniendo una distancia de 50 pies (15m) o más no puede evitar el peligro potencial.
- Las personas que usan esta cortadora de césped deben estar en buenas condiciones físicas y de salud mental, y no bajo la influencia del alcohol y las drogas. Nunca use esta cortadora de césped cuando esté fatigado, enfermo o molesto. Si se siente cansado, tómese un descanso.
- Los componentes de esta máquina generan un campo electromagnético durante el funcionamiento, que puede interferir con algunos marcapasos. Para reducir el riesgo de lesiones graves o fatales, las personas con marcapasos deben consultar con su médico y el fabricante del marcapasos antes de operar esta máquina. En ausencia de dicha información, CRAFTOP no recomienda el uso de esta máquina por parte de cualquier persona que tenga un marcapasos.
- El usuario de esta máquina es responsable de evitar lesiones a terceros o daños a su propiedad

#### PRECAUCIÓN

La exposición prolongada al frío y/o a la vibración puede provocar lesiones. Lea y siga todas las instrucciones de seguridad y operación para minimizar el riesgo de lesiones. El incumplimiento de las instrucciones puede provocar lesiones dolorosas en la muñeca/mano/.

El fenómeno de Raynaud puede afectar los dedos de cierto individuo si una persona está expuesta a la vibración y el frío. La exposición a la vibración y el frío puede causar sensaciones de hormigueo y ardor, seguidas de pérdida de color y entumecimiento en los

dedos. Se recomiendan encarecidamente las siguientes precauciones:

- Mantenga su cuerpo caliente, especialmente la cabeza, el cuello, las manos, las muñecas, los tobillos y los pies.
- Mantenga una buena circulación sanguínea realizando ejercicios vigorosos para los brazos durante los descansos frecuentes del trabajo.
- Limite las horas de operación, descanse cuando se sienta cansado o fatigado.
- Si experimenta molestias, enrojecimiento e hinchazón de los dedos seguido de blanqueamiento y pérdida de sensibilidad, consulte a su médico antes de continuar exponiéndose al frío y la vibración.

El uso excesivo de los músculos y tendones de los dedos, manos, brazos y hombros puede causar dolor, hinchazón, entumecimiento, debilidad y dolor extremo en esas áreas.

- Evite usar la muñeca en una postura doblada, extendida o torcida. En su lugar, trate de mantener una posición recta de la muñeca. Además, al agarrar, use toda la mano, no solo el pulgar y el dedo índice.
- Tome descansos periódicos para minimizar la repetición y deje que sus manos descansen.
- Reduce la velocidad y la fuerza con la que haces el movimiento repetitivo.
- Haga ejercicio para fortalecer las manos y los músculos de los brazos.
- Deje de usar inmediatamente la máquina y otras herramientas eléctricas, y consulte a un médico si siente hormigueo, entumecimiento o dolor en los dedos, las manos, las muñecas o los brazos.

### PELIGRO

Todos los conductores eléctricos y cables de comunicaciones pueden tener flujo de electricidad con altos voltajes. Esta máquina no está aislada contra la corriente eléctrica. Nunca toque los cables directa o indirectamente, de lo contrario pueden producirse lesiones graves o incluso la muerte.

### PELIGRO

No opere esta máquina en interiores o en áreas inadecuadamente ventiladas. El escape del motor contiene emisiones venenosas y puede causar lesiones graves o la muerte.

## Ropa y EPP



Use ropa adecuada.



Use protección para los ojos y los oídos.

Siempre use equipos de protección personal apropiados para la operación de la cortadora de césped, incluida la protección para los ojos y los oídos.



Protección de manos.

Siempre use guantes apropiados para la operación de la cortadora de césped.



Se requiere protección para los pies.

Zapatos de punta de acero con suela antideslizante son requeridos en el área de trabajo.

### ADVERTENCIA

La mayoría de los accidentes de cortadoras de césped ocurren cuando los accesorios de corte tocan al operador u objetos arrojados al operador. Debe usar ropa aprobada y equipos de protección personal (EPP) aprobados cada vez que use una cortadora de césped.



Use ropa adecuada.

Evite la ropa que podría quedar atrapada en las ramas, matorrales o las partes móviles de la máquina. No use bufanda, corbata o joyas. Ata el cabello largo para que esté por encima del nivel de los hombros.



Protección para los oídos y los ojos

Siempre use equipos de protección personal apropiados para la operación de la cortadora de césped, incluida la protección para los ojos y los oídos.



Protección de manos

Siempre use guantes de trabajo de alta resistencia hechos de material duradero para la operación de la cortadora de césped.



Protección de los pies.

Use botas resistentes con punta de acero y suelas antideslizantes en su área de trabajo.



Tenga siempre un botiquín de primeros auxilios en su lugar de trabajo

Los equipos de protección personal no pueden eliminar el riesgo de lesiones, pero reducirán el grado de lesión si ocurre un accidente. Pídale ayuda a su distribuidor de cortadoras de césped para elegir los equipos adecuados.

La exposición prolongada o continua a altos niveles de ruido puede causar discapacidad auditiva permanente.

Siempre use protección auditiva aprobada cuando opere una cortadora de césped.

## Maneje su cortadora de césped de manera segura

### **⚠ ADVERTENCIA**

Esta máquina está diseñada para cortar césped. No lo use para otro propósito, ya que el mal uso puede resultar en lesiones personales o daños a la propiedad, incluidos daños a la cortadora de césped.

Bajo ninguna circunstancia, no debe modificar el diseño original de la cortadora de césped sin la aprobación de CRAFTOP. Utilice siempre accesorios de corte genuinos y piezas de repuesto. Las modificaciones o accesorios no autorizados pueden provocar lesiones graves o incluso fatales.

Bajo ninguna circunstancia, no debe operar su cortadora de césped si está dañada, mal ajustada o mantenida, o si no está ensamblada de forma completa o segura. Siempre inspeccione la cortadora de césped antes de cada uso y reemplace las piezas inmediatamente si está desgastadas, sueltas, dañadas o faltan.

El deflector de esta máquina no puede proteger al operador de todos los objetos arrojados por el accesorio de corte (piedras, maderas, vidrio, alambre, etc.). Tales objetos pueden rebotar y luego golpear al operador.

- Siempre desconecte el cable de la bujía y coloque el cable donde no pueda entrar en contacto con la bujía para evitar el arranque accidental al configurar, transportar, ajustar o realizar reparaciones, excepto los ajustes del carburador.
- Siempre sostenga la máquina firmemente con ambas manos en el manubrio y la palanca de control de la cuchilla mientras trabaja. Envuelva los pulgares y los dedos rodeando firmemente el mango y la palanca de control de la cuchilla al cortar.



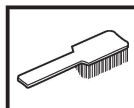
- Opere la cortadora de césped solo en un área exterior bien ventilada. Nunca encienda o haga funcionar el motor dentro de una habitación o edificio cerrado. Los gases de escape contienen monóxido de carbono peligroso.

- Nunca opere la máquina por la noche, en momentos de niebla intensa o en cualquier otro momento en que su campo de visión pueda ser limitado y sea difícil mantener una visión clara del área de trabajo.
- Durante la lluvia, las tormentas en momentos de vientos fuertes o huracanados, o en cualquier otro momento en que las condiciones climáticas puedan hacer que no sea seguro usar esta máquina.
- Planifique cuidadosamente su operación de corte con anticipación. Nunca comience a cortar hasta que tenga un área de trabajo despejada.
- Mantenga el balance y el equilibrio en todo momento. No se pare sobre superficies resbaladizas, irregulares o inestables. No opere la cortadora de césped en posición extraña o en una escalera o escaleras.
- Siempre apague el motor antes de apagar la cortadora de césped.
- Mantenga el área de escape libre de escombros inflamables. Evite el contacto con superficies calientes durante e inmediatamente después de la operación.
- Use un paño húmedo, un cepillo de cerdas suaves y/o un compresor de aire (Max 25 PSI) para limpiar su cortadora de césped. No utilice una lavadora a presión para limpiar la cortadora de césped, ya que el chorro sólido de agua a alta presión puede dañar partes de la máquina.

## Mantener en buen estado de funcionamiento



Apague el motor moviendo el interruptor de parada a la posición STOP antes de realizar cualquier revisión o mantenimiento.



Se requiere una limpieza regular.



Inspección visual.



Se deben usar gafas protectoras o una visera.

### **⚠ PRECAUCIÓN**

Todo el servicio de cortadora de césped, excepto los elementos enumerados en la sección de mantenimiento de este manual, debe ser realizado por un distribuidor de servicio autorizado o personal de servicio de cortadora de césped competente.

### **⚠ ADVERTENCIA**

Utilice únicamente piezas de repuesto de alta calidad para evitar el riesgo de accidentes y daños a la herramienta eléctrica. Si tiene alguna pregunta al respecto, consulte a un distribuidor o centro de servicio

autorizado. CRAFTOP recomienda el uso de piezas de repuesto originales. Están diseñados específicamente para adaptarse a su modelo y cumplir con sus requisitos de rendimiento.

- Realice la inspección y el mantenimiento a intervalos regulares de acuerdo con este manual.
- Bajo ninguna circunstancia debe desarmar la cortadora de césped o alterarla de ninguna manera. Hacerlo podría resultar en que la cortadora de césped se dañe durante la operación o que la cortadora de césped no pueda funcionar correctamente.
- Antes de usar, siempre inspeccione visualmente para ver que las cuchillas, los pernos de la cuchilla y el conjunto del cortador no estén desgastados o dañados. Reemplace las cuchillas y pernos desgastados o dañados en juegos para preservar el equilibrio.
- Revise la cuchilla y los pernos de montaje del motor a intervalos frecuentes para asegurarse que estén bien apretados. Además, inspeccione visualmente la cuchilla en busca de daños (doblada, agrietada o desgastada). Sustitúyala por cuchilla que cumpla con las especificaciones del equipo original enumeradas en este manual.
- Nunca manipule los dispositivos de seguridad. Compruebe su correcto funcionamiento con regularidad.
- Para reducir el riesgo de lesiones, apague siempre el motor antes de realizar cualquier inspección, mantenimiento, reparación o limpieza de la máquina, y asegúrese de que la cuchilla y todas las partes móviles se hayan detenido. Desconecte el cable de la bujía y mantenga el cable alejado de la bujía para evitar el arranque accidental.
- Mantenga las asas secas, limpias y libres de aceite o combustible.
- Mantenga las tapas, tornillos y sujetadores de combustible y aceite bien apretados.
- Compruebe que el accesorio de corte esté firmemente fijado y en condiciones de funcionamiento seguras.
- No encienda el motor en el arrancador con el arranque de la bujía o la bujía quitada, ya que de lo contrario existe el riesgo de incendio por chispas no contenidas.
- Revise el sistema de combustible en busca de fugas debido a daños en el tanque de combustible, especialmente si la máquina se cae accidentalmente. Si se encuentran daños o fugas, no use más la máquina, de lo contrario pueden ocurrir lesiones personales graves o daños a la propiedad. Haga que su máquina sea reparada por un distribuidor o un centro de servicio autorizado antes del próximo uso.
- Revise periódicamente la tapa de llenado de combustible para detectar fugas.
- Para reducir el riesgo de incendio, no repare ni almacene su máquina cerca de llamas abiertas.
- Utilice únicamente un tipo de bujía que esté aprobado por CRAFTOP y asegúrese de que esté en buenas condiciones.

- Compruebe el estado del silenciador. Para reducir el riesgo de incendio y daños a la audición, no opere su máquina si el silenciador está dañado o falta.
- No toque el silenciador, la bujía u otras partes metálicas del motor mientras el motor está en marcha o se apaga inmediatamente, de lo contrario se producirán lesiones por quemaduras.
- Después de golpear un objeto extraño, detenga el motor, retire el cable de la bujía e inspeccione minuciosamente la cortadora de césped para detectar cualquier daño. Repare el daño antes de arrancar y operar la cortadora de césped.
- Limpie la hierba y los residuos vegetales del accesorio de corte, elimine cualquier acumulación de material del accesorio de corte y el deflector a intervalos regulares.
- Mantenga la cuchilla siempre afilada.
- Rellenando los bordes de corte, mantenga la esquina final afilada y rodee la raíz del borde.
- Los componentes del recogedor de césped están sujetos a desgaste, daño y deterioro, lo que podría exponer partes móviles o permitir el lanzamiento de objetos. Para protección de la seguridad, revise con frecuencia los componentes y reemplácelos con las piezas recomendadas por el fabricante, cuando sea necesario.
- Las cuchillas de la cortadora de césped son afiladas y pueden cortar. Envuelva las cuchillas o use guantes, y use precaución adicional al darles servicio.
- No cambie la configuración del regulador del motor ni exceda la velocidad del motor. Las velocidades excesivas del motor son peligrosas.
- No ajuste el acelerador con el motor en marcha
- Verifique y mantenga todas las tuercas, pernos y tornillos apretados para asegurarse que el equipo esté en condiciones de trabajo seguras. Apriete y/o reemplace según sea necesario.

## Mantenga un buen control de la cortadora de césped

### ADVERTENCIA

Para reducir el riesgo de lesiones graves o incluso fatales para el operador o los transeúntes por pérdida de control, nunca use la cortadora de césped con una mano. Siempre sostenga la cortadora de césped firmemente con ambas manos cuando el motor esté en marcha.

### ADVERTENCIA

Para reducir el riesgo de lesiones por corte, mantenga las manos y los pies alejados de la herramienta de corte. Nunca toque una herramienta en movimiento con la mano o cualquier otra parte de su cuerpo.

Sujete bien y con firmeza la cortadora de césped con ambas manos cuando el motor esté en marcha. Un agarre firme le ayudará a mantener el control de la máquina.

- Coloque siempre su mano izquierda en el mango izquierdo y su mano derecha en el mango derecho.

- Envuelva los dedos y el pulgar alrededor de la mano. Debe usar este agarre ya sea diestro o zurdo. Este agarre minimiza el efecto del retroceso y le permite mantener la cortadora de césped bajo control. ¡No suelte las asas!
- Mantenga la postura y el equilibrio en todo momento. Párese con su peso equilibrado en ambos pies.
- Siempre párese en el suelo mientras trabaja, nunca en una escalera, plataforma de trabajo o cualquier otro soporte inseguro.
- Preste especial atención cuando trabaje en terrenos resbaladizos, inclinados o terrenos irregulares.



No fume ni traiga fuego o llama mientras manipula combustible o mientras opera la cortadora de césped. Tenga en cuenta que el vapor de combustible puede escapar del sistema de combustible.

- Utilice únicamente un recipiente de gasolina aprobado.
- Rellene el combustible en un área exterior bien ventilada en suelo descubierto; almacenar el combustible en un lugar fresco y seco y bien ventilado; y utilizar un contenedor aprobado y marcado para todos los fines de combustible. Limpie todos los derrames de combustible antes de encender la cortadora de césped.
- Elimine todas las fuentes de chispas o llamas (es decir, fumar, llamas abiertas o trabajos que puedan causar chispas) en las áreas donde se vierte o almacena el combustible.
- Úselo siempre con precaución al manipular combustible. Limpie todos los derrames y luego mueva la cortadora de césped al menos 10 pies (3 metros) desde el punto de abastecimiento de combustible antes de arrancar el motor.
- Para reducir el riesgo de incendio y explosión, alimente su máquina solo en un área bien ventilada, al aire libre lejos de llamas, luces piloto, calentadores, motores eléctricos y otras fuentes de ignición.
- Nunca retire la tapa de combustible mientras el motor está en marcha.
- Siempre apague el motor antes de reabastecer el combustible, deje que la máquina se enfríe en un área no combustible, no en hojas secas, paja, papel, etc. No alimente un motor caliente porque el combustible puede derramarse y causar un incendio.
- Suelte un poco de la tapa de combustible con cuidado para permitir que cualquier acumulación de presión en el tanque de combustible se libere lentamente y evitar el derrame de combustible. ¡Nunca retire la tapa de combustible cuando el motor esté en marcha!
- Si derrama combustible, limpie la máquina inmediatamente. Si se derrama combustible en su ropa, cámbiela de inmediato.
- Después de cargar combustible, apriete la tapa de combustible de forma segura a la posición correcta, asegúrese de que no se afloje ni se desprenda debido a las vibraciones de la máquina.
- Para reducir el riesgo de lesiones por quemaduras graves o fatales, verifique si hay fugas de combustible. Si se encuentra una fuga de combustible, no encienda ni haga funcionar el motor hasta que se solucione la fuga.
- No inhale humos de combustible ya que son tóxicos.
- Deje que el motor se enfríe antes de almacenarlo en cualquier recinto. Para reducir el riesgo de incendio, debe mantener el motor, el silenciador y el área de almacenamiento de gasolina libres de césped, hojas o grasa excesiva.
- Almacene la máquina y el combustible en un área donde los vapores de combustible no puedan alcanzar chispas o llamas abiertas de calentadores

## Transporte de su cortadora de césped

### ⚠ ADVERTENCIA

Para reducir el riesgo de lesiones por contacto con la cuchilla, nunca lleve ni transporte su cortadora de césped con la cuchilla de corte en movimiento.

### ⚠ ADVERTENCIA

Siempre detenga el motor antes de transportar la cortadora de césped. Llevar una cortadora de césped con el motor en marcha puede ser extremadamente peligroso.

- Al transportar su cortadora de césped a mano, use dos personas:
  - Sostenga la cubierta con ambas manos.
  - Sostenga el soporte izquierdo con la mano izquierda, el soporte derecho con la mano derecha.
- Evite tocar partes calientes de la máquina, especialmente el silenciador y la caja de engranajes, de lo contrario podría sufrir quemaduras graves.
- Cuando transporte su cortadora de césped en un vehículo, la máquina debe estar asegurada adecuadamente para evitar movimientos repentinos, rotación, derrame de combustible y daños a su máquina.
- Nunca transporte la cortadora de césped por carreteras en mal estado durante largas distancias sin sacar primero todo el combustible del tanque de combustible. Si lo hace, puede causar fuga de combustible del tanque.
- No transporte la máquina en bicicleta o motocicleta porque es muy peligroso.

## Manipule el combustible con precaución

Su cortadora de césped utiliza gasolina como combustible. No utilice mezcla de combustible.

### ⚠ ADVERTENCIA

La gasolina es un combustible extremadamente inflamable. Preste mucha atención al almacenar o manipular, de lo contrario pueden producirse lesiones personales graves.



Si se derrama y se enciende por una chispa u otra fuente de ignición, la gasolina puede causar incendios y quemaduras graves o daños a la propiedad.

de agua, motores eléctricos o interruptores, hornos, etc.

## Antes de encender el motor

Un área dentro de un radio mínimo de 50 pies (15m) desde el uso de la máquina debe considerarse como un área peligrosa, en la que se debe entrar. Si es necesario, se debe colocar una cuerda amarilla de advertencia y letreros de advertencia alrededor del perímetro del área. Cuando el trabajo vaya a ser realizado simultáneamente por dos o más personas, también se debe tener especial cuidado de mirar constantemente a su alrededor o verificar de otra manera la presencia y las ubicaciones de otras personas que trabajan, a fin de mantener una distancia de seguridad suficiente entre cada persona.

Antes de arrancar el motor, verifique que su máquina esté correctamente ensamblada y en buenas condiciones.

- Compruebe que el accesorio de corte esté correctamente instalado y ajustado.
- Compruebe si los dispositivos de protección (por ejemplo, el deflector para el accesorio de corte o la placa de conducción) están dañados o desgastados. Si se daña o se desgasta, colóquelo antes del próximo uso.
- Para reducir el riesgo de accidentes, opere su máquina solo si está en condiciones seguras, no opere su máquina si está dañada o no está ensamblada adecuadamente.
- Revise el sistema de combustible en busca de fugas, prestando mucha atención a las partes visibles, como la tapa del tanque de combustible, las conexiones de la manguera y la bomba de combustible manual (si está equipada). Si hay fugas o daños, no encienda el motor debido al riesgo potencial de incendio. Haga que su máquina sea reparada por un distribuidor o centro de servicio autorizado antes de volver a usarla.
- Verifique que el capuchón de la bujía sea seguro: un capuchón suelto puede provocar un arco que podría encender los gases combustibles y provocar un incendio.
- El interruptor de parada del motor debe moverse fácilmente en la dirección de la posición STOP y la posición START.
- Acción suave del bloqueo del gatillo del acelerador y del gatillo del acelerador (si está instalado) – El gatillo del acelerador debe regresar automáticamente a la posición de ralentí por sí mismo.
- Nunca intente modificar los controles o dispositivos de seguridad de ninguna manera.
- Mantenga todas las asas secas y limpias, libres de aceite y suciedad, para un control seguro de la máquina.
- Utilice solo una combinación aprobada de accesorio de corte, deflector, mango y arnés. Todas las piezas deben ensamblarse de forma adecuada y segura.
- Ajuste el arnés y las asas para que se adapten a su altura y alcance.

- Si usa una correa para el hombro o un arnés completo, practique mover y dejar la máquina, ya que puede involucrarse en una emergencia. Para evitar daños en tu máquina, no la tire al suelo cuando practique.
- Nunca use cuchillas dobladas, deformadas, agrietadas, rotas o dañadas de alguna manera.
- Verifique el perno para sujetar la cuchilla y asegúrese de que la cuchilla gire suavemente sin ruido anormal.

## Al arrancar el motor

### ADVERTENCIA

Para reducir el riesgo de lesiones, evite el contacto con el accesorio de corte.

- Su máquina está diseñada para ser operada por una sola persona. No permita que otras personas entren en el área de trabajo, incluso al comenzar.
- Arranque el motor al menos a 10 pies (3 m) del lugar de abastecimiento de combustible, solo al aire libre.
- Mantenga a los transeúntes, especialmente niños y animales, al menos a 50 pies (15m) del punto de operación. Si se le acercan, detenga inmediatamente el motor para ayudar a evitar el contacto con la cuchilla o lesiones por objeto arrojados.

### ADVERTENCIA

Aunque el área de operación debe estar completamente despejada de objetos extraños, un objeto puede haber sido pasado por alto y podría ser arrojado accidentalmente por el cortacésped en cualquier dirección y causar lesiones personales graves al operador o cualquier otra persona permitida en el área.

- Coloque la máquina en un terreno firme en un área abierta y bien ventilada. Asegúrese de tener un buen equilibrio y una base segura. Sostenga la máquina de forma segura. El accesorio de corte no debe entrar en contacto con el suelo ni con otras obstrucciones, ya que pueden comenzar a funcionar cuando arranca el motor.
- No deje caer la herramienta eléctrica, simplemente siga el camino y arranque el motor como se describe en este manual.
- Nunca encienda el motor parándose de lado de los accesorios de corte.
- Coloque el acelerador en la posición de ralentí al arrancar el motor.
- Compruebe la configuración de la velocidad de ralentí: el accesorio de corte no debe girar cuando el motor está en ralentí con el gatillo del acelerador liberado. Si continúa girando incluso después de que el gatillo del acelerador se haya liberado por completo, apague el motor y lleve la máquina a su distribuidor o centro de servicio autorizado para su inspección y / o reparación.

## Dante la operación

### ADVERTENCIA

Moving parts can amputate fingers or cause severe injuries. Keep hands, clothing and loose objects away

from all moving parts. Always stop engine, disconnect spark plug, and make sure all moving parts have come to a complete stop before removing obstructions, clearing debris, or servicing unit.

## **ADVERTENCIA**

Inspeccionar el área de trabajo: Las piedras, piezas de metal u otros objetos sólidos pueden ser lanzados a más de 50 pies (15 m) y causar lesiones personales o dañar el accesorio de corte y la propiedad (vehículos, ventanas, etc.).



Siempre use gafas de seguridad de gafas de seguridad durante la operación o mientras realiza un ajuste o reparación, para proteger los ojos de objetos extraños que puedan ser arrojados desde la máquina en cualquier dirección.



Use zapatos de trabajo resistentes y de suela áspera y pantalones y camisas ajustados. Se recomiendan camisas y pantalones que cubran los brazos y las piernas y zapatos con punta de acero. No use ropa o joyas holgadas. Pueden quedar atrapados en las partes móviles. Nunca opere una unidad con pies descalzos, sandalias, zapatos resbaladizos o livianos (por ejemplo, de lona).



No toque ninguna parte móvil, especialmente las cuchillas de corte, mientras el motor está en marcha. Si los accesorios de corte se atascan por ramas gruesas u otras obstrucciones, apague el motor inmediatamente antes de intentar liberar las cuchillas de corte; de lo contrario, existe el riesgo de lesiones.



Superficie caliente.

No tocar.

- Lleve siempre consigo herramientas, equipos, piezas de repuesto y consumibles relacionados:
  - Herramientas adjuntas en el paquete del producto.
  - Equipos de protección individual.
  - Combustible debidamente reservado.
  - Piezas de repuesto.
  - Las cosas para notificar a su trabajo son (cuerda, señales de advertencia, etc.).
  - Silbato (para colaboración o emergencia).
  - Hacha o sierra (para la eliminación de obstáculos).
- Verifique que no haya transeúntes, niños y animales en el área de trabajo general. Si viene alguien:
  - Protéjase contra situaciones peligrosas en todo momento. Advierta a los adultos que mantengan a los niños y las mascotas alejados de su área de

trabajo. Tenga cuidado si se le acercan. Las lesiones pueden ser el resultado de escombros voladores.

- Si alguien lo llama o lo interrumpe mientras trabaja, siempre asegúrese de apagar el motor antes de girar. Evite operar con personas cerca, especialmente niños.
- Siempre esté atento al entorno y manténgase alerta a los posibles peligros que no pueda escuchar debido al ruido de la máquina.
- Cuando el trabajo vaya a ser realizado simultáneamente por dos o más personas, compruebe siempre la presencia y la ubicación de los demás para mantener una distancia de seguridad suficiente entre ellos.
- Asegúrese de tener siempre un buen equilibrio y una base segura. Coloque los pies ligeramente separados (un poco más separados que el ancho de los hombros), de modo que su peso se distribuya uniformemente a través de ambas piernas, y siempre asegúrese de mantener una postura estable y uniforme mientras trabaja.
- Tenga especial cuidado en condiciones resbaladizas (hielo, suelo mojado, nieve), terrenos con maleza, en pendientes o terrenos irregulares.
- Tenga cuidado con los obstáculos (raíces, tocones de árboles o agujeros) que podrían hacer que tropiece o resbale.
- Inspeccione a fondo el área donde se va a utilizar el equipo. Retire todas las piedras, palos, alambres, huesos, juguetes y otros objetos extraños que puedan ser recogidos y arrojados por el cortacésped en cualquier dirección y cause lesiones personales graves al operador o a cualquier otra persona permitida en el área. Planifique su patrón de corte para evitar la descarga de material hacia carreteras, aceras, transeúntes y similares. Para ayudar a evitar lesiones por objetos arrojados, mantenga a los niños, transeúntes y ayudantes al menos a 50 pies de la cortadora de césped mientras está en funcionamiento.
- Inspeccione el área de trabajo para evitar dañar el accesorio de corte:
  - Reitre piedras, rocas, trozos de metal y otros objetos sólidos.
  - Cuando trabaje cerca del suelo, asegúrese de que no haya arena, gravilla o piedras entre los accesorios de corte.
  - Tenga especial cuidado al cortar el césped junto a las cercas de alambre o contra ellas.
- Vigile la cortadora de césped en todo momento, no corte áreas que no pueda ver con claridad. Verifique las condiciones del área de trabajo para evitar cualquier accidente golpeando obstáculos ocultos, como tocones, piedras, latas o vidrios rotos.
- No coloque las manos o los pies cerca o debajo de las partes giratorias. Manténgase alejado de la abertura de descarga en todo momento, ya que la cuchilla giratoria puede causar lesiones.
- Muchas lesiones ocurren como resultado de que el cortacésped pasa por encima del pie durante una caída. No se cuelgue a la cortadora de césped si se está cayendo, suelte el mango inmediatamente.