

# BRUSH CUTTER

## Neutral Manual

Model No.:HGC660



Manufactured by Laizhou Haide Farm & Garden Machinery Co.,Ltd

Address: Dujia Village,Chenggang Street,Laizhou,Shandong,China

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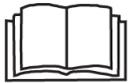
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## Safety precautions

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**Caution: Rotating blades!**  
**Using the machine on steep slopes is dangerous!**  
**Only use the machine in areas where it can be operated safely!**

**READ THE MANUAL** Read, understand and follow all instructions in the manual before assembling and operating the machine.



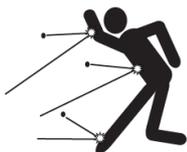
### **WARNING - ROTATING PARTS**

Keep hands out of inlet while the machine is engaged. The rotating blades can cause amputation.



### **WARNING - THROWING OBJECTS**

The machine may pick up and is capable of throwing heavy foreign objects, which can cause serious injury which can cause serious personal injury



### **WARNING - FIRE HAZARDOUS**

Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Spilled gasoline is extremely flammable. Allow the engine to cool before refuelling.



### **WARNING - CARBON MONOXIDE**

Never start the engine indoor or in areas with low ventilation. The exhaustion from the engine contains carbon monoxide. Failure to observe could result in permanent injury or death.

## General safety

- ⚠ Read this manual carefully. Make sure that you are familiar with the different controls, settings and handles of the equipment. The machine shall always be used in accordance to this manual.
- ⚠ Know how to stop the unit and ensure that you are familiar with emergency stop.
- ⚠ Never allow children or people unfamiliar with these instructions to use the machine. Note, that local regulations can restrict the age of the operator.
- ⚠ If you feel unwell, tired or have consumed alcohol or drugs, do not operate the machine.
- ⚠ Always inspect the machine before usage Ensure that no parts are worn or damaged.

- ⚠ Replace worn out or damaged elements and bolts in sets to preserve balance.
- ⚠ The operator of the machine is responsible for people's safety.
- ⚠ Never use the machine near children or animals.
- ⚠ The operator of the machine is held liable for any accidents or hazards to other people and their property.
- ⚠ Thoroughly inspect the area, where the equipment is to be used, if necessary remove any foreign objects.
- ⚠ The blades must come to a complete stop before transporting in and out of work area.
- ⚠ The operator must stand opposite the blades during transport
- ⚠ Spilled gasoline is extremely flammable, never refuel while the engine is still hot.
- ⚠ Wipe off any spilled gasoline before starting the engine. It may cause a fire or explosion! Always wear earmuffs during operation.
- ⚠ Boots with non-slip soles with steel jacket is required. Avoid loose-fitting clothes.
- ⚠ Do not operate the equipment when barefoot or wearing sandals.
- ⚠ Only use original blades, spare parts or accessories. If not original blades parts or accessories is used, the liability is no longer applied.
- ⚠ The engine on the machines must be turned off during transportation.
- ⚠ The blades must be disengaged during transportation.
- ⚠ It is strictly forbidden to lift the machine when engaged or engine is running

## **Operation**

- ⚠ After striking a foreign object, stop the engine immediately, remove the spark plug cap and inspect the machine thoroughly for damage. Repair the damage before continuing
- ⚠ If the machine should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of damage.
- ⚠ Always disengage the levers, turn off the engine, and remove the spark plug, when the unit is left unattended.
- ⚠ Always turn off the engine and ensure that all moving parts have come to a complete stop before making any repairs, adjustments, or inspections.
- ⚠ Exercise extreme caution when operating on banks and slopes.
- ⚠ Exercise extreme caution when changing direction on banks and slopes
- ⚠ Never operate the machine at a fast pace.
- ⚠ Do not overload machine capacity by attempting to work at too fast a rate.
- ⚠ Do not carry passengers. Pay attention, while the machine is in reverse.
- ⚠ Never allow any bystanders in front of unit.
- ⚠ Always disengage the blades, if not in use.
- ⚠ Only operate the machine at daylight or in fully illuminated areas
- ⚠ Ensure a stable foothold and always keep a firm hold on the handles. Always walk, never run. Never attempt to make any adjustments, while the engine is running.
- ⚠ Use extreme caution when reversing or pulling the machine backwards
- ⚠ Never operate the engine indoor or in areas with low ventilation. The exhaust from the engine contains carbon monoxide. Failure to observe could result in permanent injury or death.

## **Gasoline safety**

- ⚠ Use extreme care in handling gasoline. Gasoline is extremely flammable and the fumes are explosive.
- ⚠ Do not refuel gasoline indoors or while the engine is running.
- ⚠ Serious personal injury can occur, when gasoline is spilled on yourself or your clothes. Rinse your skin and change clothes immediately!
- ⚠ Use only an approved gasoline container. Do not use soft drink bottle or similar!
- ⚠ Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- ⚠ Never refuel your machine indoors.
- ⚠ Let the engine cool down before refilling
- ⚠ Never fill the fuel tank to more than 2.5 cm below bottom of filler in order to provide space for fuel to expansion.
- ⚠ After refueling, ensure that the cap tighten securely.

- ⚠ Never use the lock-function on the gasoline gun, when refueling.
- ⚠ Do not smoke while refueling.
- ⚠ Never refuel inside a building or where gasoline fumes may get in contact with an ignition source.
- ⚠ Keep gasoline and engine away from appliance, pilot lights, barbecues, electric appliances, power tools, etc.
- ⚠ If the fuel tank has to be drained, this shall be done outdoors
- ⚠ Never store the equipment with petrol in the tank inside a building. This is to ensure that petrol fumes cannot reach any open flame or ignition source.

### **Maintenance and storage**

- ⚠ The engine shall be stopped when carrying out maintenance and cleaning operations, when changing tools and when being transported by means other than under its own power.
- ⚠ Check regularly that all bolts and nuts are tightened. Retighten if necessary.
- ⚠ The engine must be completely cooled before storing indoors or covered.
- ⚠ If the machine unused for a period of time, please refer to the instructions in this manual.
- ⚠ Maintain or replace safety and instruction labels, as necessary.
- ⚠ Only use original spare parts or accessories. If not original parts or accessories is used, the liability is no longer applied.
- ⚠ Always keep the engine, silencer and other parts clean of vegetative material and grease. This will reduce fire hazard. Replace faulty silencers.

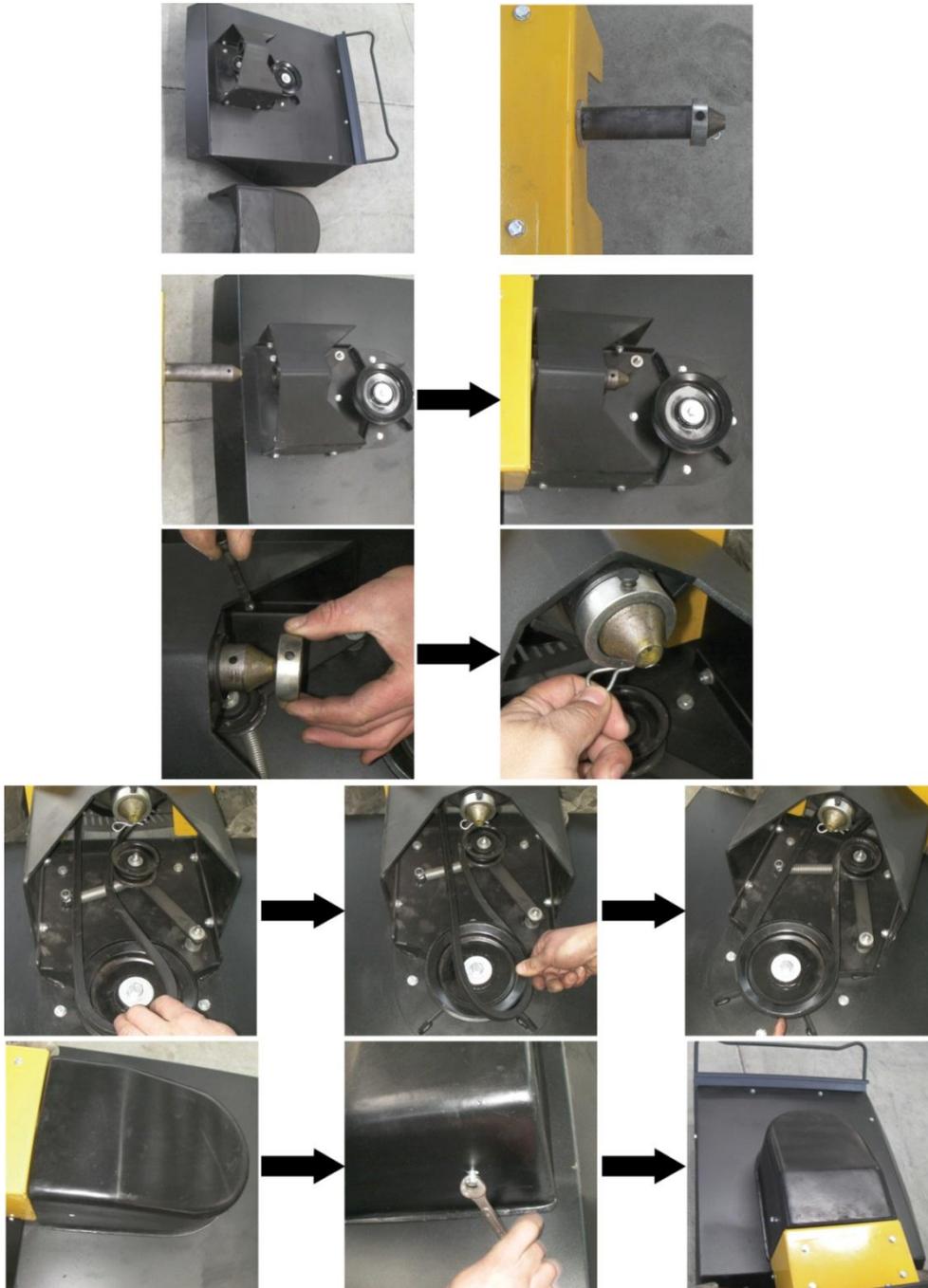
### **Miscellaneous**

- ⚠ The gears are delivered pre-greased. However, always ensure they are well greased before each use.
- ⚠ The motor is not pre-filled with oil.
- ⚠ Factory-fitted control devices, such as the handle-mounted clutch cable, must not be removed or exposed.
- ⚠ Only drain the fuel tank outdoors. Gasoline is extremely flammable and the fumes are explosive.
- ⚠ Replacing or maintenance of belt should be carried out by authorized workshop

## Assembly

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Please follow the assembly procedure on the illustrations below:



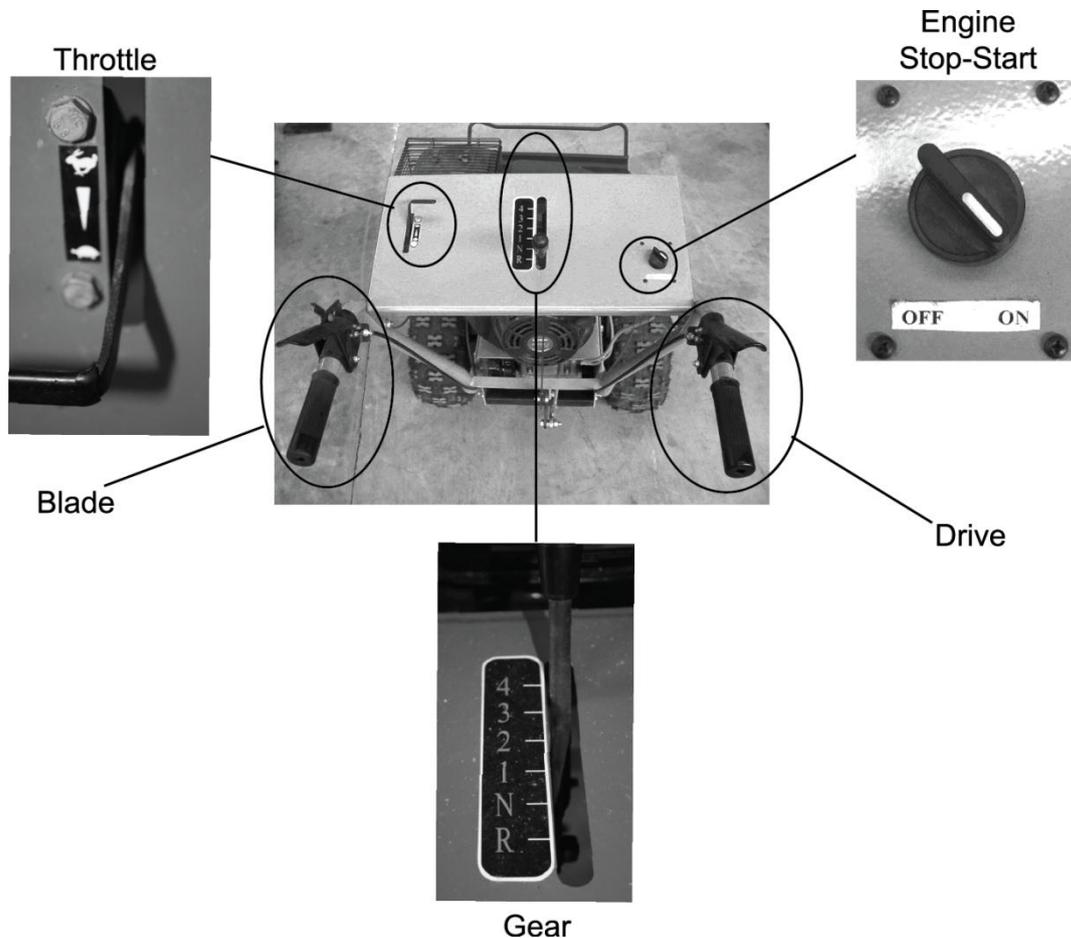
1. Slide the cutter deck onto the shaft of the machine
2. Lock with collar and pin.
3. Install the belt on the pulleys as shown in the illustration.
4. Install the belt cover and fasten the bolt.

⚠ Warning: Replacing or maintenance of the belt should be carried out by authorized dealers or workshop only.

## Operating

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**Important!** Clear and secure the work area. The operator of the machine will be held liable for personal injury or damage on property to injured party.



**Safety check:** For maximum protection of the operator a safety check on controls and cables etc. must be performed before use, each time. Check and ensure that these parts are in good condition, adjust or replace if necessary.

### **Safety check: Dead man's lever**

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1. Start the machine, and engage the both levers.
2. Release both levers. The blades should stop immediately!

**If the blade does not stop, the dead man's control system may be damaged or disabled.  
Turn off the machine and contact dealer or technical support for assistance.**

### **Adjusting the clutch handles**

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5. Start the engine.
6. Shift into low gear, with the both handles depressed.
7. Set the throttle for higher speed
4. Adjust the cable by turning the nut until the clutch activates correctly

## Operating the engine

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### **⚠ Read the instruction manual for the engine, before use**

Before using the machine, remove all foreign objects from the vicinity. Stones, glass, branches and similar items can damage the machine. Also check that all bolts are tightened.

### **⚠ Control oil level before starting the engine.**

#### **Start the engine:**

1. Open the fuel tap.
2. On a cold engine open the choker.  
**Note:** On a hot engine choke is not required.
3. Turn the throttle to "fast" position.
4. Pull the recoil starter gently until you feel resistance in the rope. Then pull quickly and energetic. Do not at any time let go of the recoil starter but glide it gently back and pull again.
5. Regulate the choker until the engine is running smoothly.

#### **Stop the engine:**

1. Hit the engine button
2. Set the throttle to slow position.
3. Turn the fuel tap to the "off" position.

## Gear and engaging the wheel drive

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- The machine has 4 speed forward transmission and 1 reverse.
- Forward speeds range from 1.8 km/h in first gear to 5.4 km/h in fourth gear.
- Use the lower gears for mowing in thick, vegetation and the higher gears for light vegetation.

Note: When shifting gears the drive lever must be released

4. Shift the rod to the desired gear.
5. Activate the drive lever (right side).
6. Release the drive lever in order to stop or change gear.

## Operating the blade

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#### Activating the blade

1. Release the lock-hook (if it is hard please lift the handle a little upwards).
2. Activate handle (left side).

**ALWAYS DISENGAGE THE BLADE, BEFORE SHIFTING INTO REVERSE!**

#### Stopping the Blade

1. Release the handle.
2. Lock with hook

#### Stopping the machine

1. Move the gear rod to the N (Neutral) position.
2. Move the throttle control to the idle position.
3. Turn the switch to off position.

If the machine runs into dense vegetation and the blade becomes tangled. Turn off the engine and disconnect the spark plug wire, before attempting to untangle the machine.

## Operating on slopes and bank

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Stay caution when operating the machine on uneven terrain or slopes, banks.

1. Do not use the on slopes greater than 20 degrees. Doing so could result in serious injury or damage to you.
2. Always cut across a slope or bank never up and down.
3. Shift into a lower gear before going down a slope or bank. This is to avoid “free-wheeling” and loss of control over the machine.

### If the cutter deck is stuck or blade is clogged

1. Disengage the blade and pull the spark plug.
2. Remove any grass or other things that is clogging the blades.
3. If the cutter deck stuck try to reverse away from the obstacle plus lifting the deck by tipping the machine forth and back.

## Maintenance

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**Importance of maintenance** Good maintenance is cost-saving and essential for safe and trouble-free operation. To ensure a proper upkeep of your machine, the following pages include a maintenance schedule and description plus an inspection procedure of your machine. For tasks that are more difficult, or require special tools, maintenance should be carried out by technician or qualified mechanic.

**Maintenance safety.** As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. It is impossible to warn against all hazards or hazardous situations, it is therefore important that the user of the machine exhibits vigilance to operate the machine safely and rationally to avoid bringing yourself and others in danger.

**Safety precautions** important: Before commencing any maintenance or repair. Make sure that the engine is shutdown in order to reduce the possibility of fire or explosion, be careful when working around gasoline. Use only a non-flammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks and flames and other sources of ignition away from the machine.

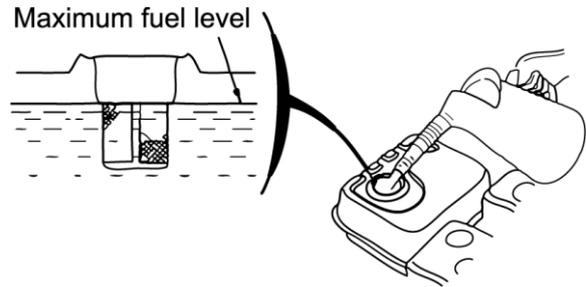
Procedure	Before Each use	Every 25 Hours	Every 100 Hours
Check Operator Presence Switch	▲		
Check Engine Oil Level	▲		
Check General Equipment Condition	▲		
Check Blade for Sharpness	▲		
Lubricate Grease Fittings		▲	
Lubricate Clutch		▲	
Lubricate Chain		▲	
Check Tire Pressure		▲	
Change Engine Oil and Filter		▲	
Check Tire Pressure		▲	
Change Engine OIL and Filter	1st time 5 hours	▲	
Clean Engine Exterior and Cooling Fins		▲	
Check All Belt Tensions and Condition		▲	
Check cable connections		▲	
Replace Air Filter and Precleaner**		▲	
Replace Spark Plug(s)			▲

## Blade

- Tilt the mower to the right, with air filter upwards.
- Inspect the blade for damage, cracks or excessive rust or corrosion.
- Ensure that the blade bolt is tightened.

Note: A dull knife can be sharpened! But a knife that is worn, bent, cracked or otherwise damaged must be replaced.

- ⚠ Replacing or, maintenance of blade should be carried out by a Texas dealer or representative or qualified mechanic.

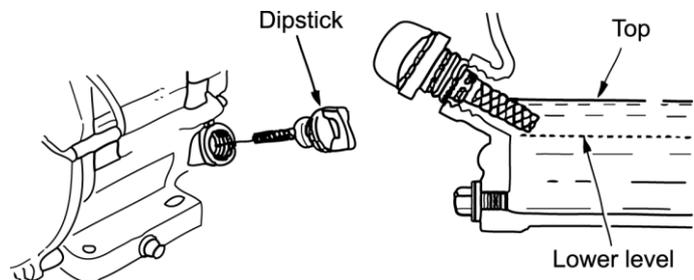


## Refuelling

With the engine stopped, remove the fuel tank cap and check the fuel level. Refill the tank if the fuel level is low.

### Fuel recommendations

- Use only unleaded gasoline octane 95 or higher.
- Never use stale or contaminated gasoline or an oil/gasoline mixture.
- Avoid getting dirt or water in the fuel tank.



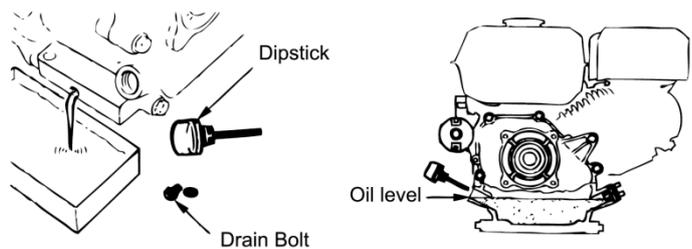
Refuel in a well-ventilated area before starting the engine. If the engine has been running, allow it to cool. Refuel carefully to avoid spilling fuel. Do not fill above the fuel strainer shoulder. After refueling, tighten the fuel tank cap securely.

## Engine oil

In order to check the engine oil level correctly the engine must be stopped and the machine in a level position.

### How to:

- Remove the filler cap/dipstick and wipe it clean.
- Insert and remove the dipstick into the filler neck to check oil level.
- The Oil level must be within the specified interval at the end of the stick. If the oil level is at the lower end of the interval, refill with oil SAE 30.
- Insert and fasten dipstick securely.



**Warning:** Never refill oil over the higher end of the interval, this will damage the engine.

**How to change engine oil.** Drain the old / staled oil while the engine is warm. Warm oil is more fluid then cold and drains better.

### How to:

- Place a suitable container below the engine to catch the used oil.
- Remove the filler cap and the drain plug.
- Drain completely!
- Reattach the drain plug, and tighten it securely.
- Refill new recommended oil.

Please dispose the used engine oil environmentally correct. We suggest that you keep the used oil in a sealed container and dispose at your recycling center or service station for reclamation. Do not throw it in the waste; pour it on the ground; or down a drain.

**The engine has an oil capacity of 1.1 Liter**

**Spark Plug**

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Check the spark plug for dirt and grime; if necessary clean it with a copper wire brush.

- first time after approximately 10 hours of operation
- Thereafter service the spark plug after every 50 hours of operation.

**How to:**

- Disconnect the cap, and remove any dirt from around the spark plug area.
- Remove the spark plug with a spark plug wrench. Inspect the spark plug.
- Replace it if the electrodes are worn, or if the insulator is cracked or chipped.
- Measure the spark plug electrode gap with a suitable gauge.
- The gap should be 0.70 - 0.80 mm. Correct the gap, if necessary, by carefully bending the electrodes
  
- Mount the spark plug carefully, by hand, to avoid cross-threading.
- After the spark plug seats, tighten with a spark plug wrench to compress the water. If reattaching a used spark plug, tighten 1/8 - 1/4 turn after the spark plug seats. If installing a new spark plug, tighten 1/2 turn after the spark plug seats. Attach the spark plug cap.

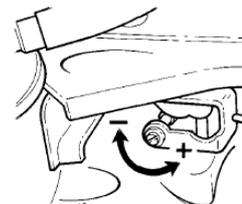
**NOTICE:** An incorrect spark plug can cause engine damage.

**Idle speed adjustment**

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**How to:**

- Start the engine
- Move the lever to the lower throttle position (turtle).
- Turn the throttle adjusting screw to obtain the standard idle speed.  
Standard idle speed: 1440 rpm ± 150 rpm



**Technical data**

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<b>Cutting width</b>	660 mm
<b>Cutting high</b>	100 mm
<b>Gear</b>	4 forward, 1 reverse
<b>Blade rotation</b>	1950 rpm
<b>Net weight (kg)</b>	140 Kg