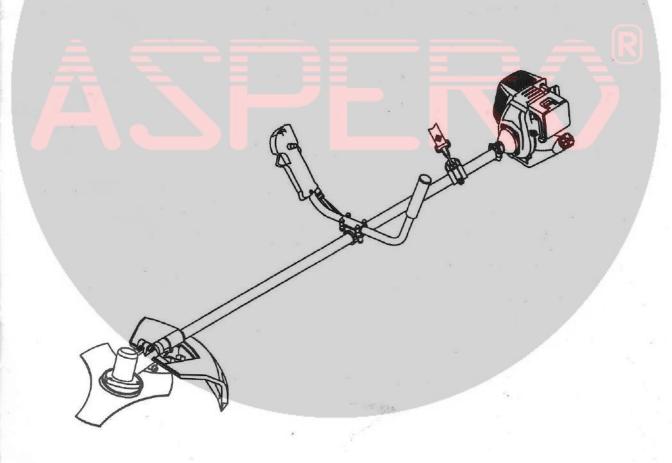


# SHOULDER BRUSH CUTTER USER'S MANUAL

CG435



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### INTRODUCTION

Thank you for your purchasing the brush cutter of our Company. The present manual explains how to handle the brush cutter well. Before using it, please read this operator's manual carefully, operate the machine correctly and engage in your task with safely. By the way, due to changes of specifications, all details of your machine may not agree with this manual. Please understand accordingly.

### TECHNICAL DATA----

MODEL			GX35		
	Remote type		Automatic centrifugal clutch; Spiral bevel gear; Drive shaft		
	Maximum speed of gear shaft	Brush cutter	7500/9700		
	/engine speed (r/min)	Grass trimmer	5800/7500		
	Idle speed(r/min)		2500± 150		
Main unit	Vibration values at each	handle(m/s²)	≤15		
	Sound pressure values[dB(A)]		≤102		
	Sound power values[dB(A)]		≤120		
	Reduction ratio		17: 22		
	Blade rotation direction		Counter-Clockwise(seen from the top)		
	Type of handle		Double grip		
	Weight when dry(kg)		7.9		
	Name of engine		140FA		
	Туре		4-stroke,1 cylinder,air-cooled, overhead camshaft		
	Displacement(mL)		37.7		
	Maximum output(kW/r/min)		1.0/6500		
Engino	Carburetor		Diaphragm-type		
Engine	Ignition		Transistor magneto		
	Method of starting		Recoil type		
	Fuel used		Gasoline and oil in seperate tanks		
	Fuel tank capacity(L)		0.76		
	Dry weight(kg)		3.8		
Length of main pipe section(mm)		1190			
	of drive shaft section(mn		1222		

Technical Data subject to changed without notice.

### **GRAPHIC WARNINGS**

Because a trimmer/cutter is a high-speed, fast cutting power tool, special safety precaution must be observed to reduce the risk of personal injury. Read this manual carefully. Be familiar with the controls and the proper use of the unit. Know how to shut it off, and how to unhook a harnessed unit quickly.



This graphic accompanied by the words WARNING and DANGER calls attention to an act of a condition which can lead to SERIOUS INJURY.



READ & UNDERSTAND Operator's Manual and Safety Manual.



ALWAYS WEAR EYE AND EAR PROTECTION.



Always TURN OFF ENGINE and make sure the cutting tool has stopped before cleaning, removing or adjusting blade.



WARNING! Never modify a trimmer or cutter in any way. Improper use of any trimmer can cause SERIOUS OR FATAL PERSONAL INJURY.

### WARNING /!\ DANGER



The engine exhaust from this product contains chemicals to cause cancer, birth defects, of other reproductive harm.

Specifications, descriptions and illustrative material in this manual are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories, and may not include all standard equipment.



### SAFETY RULES & PRECAUTIONS

Proper safety precautions must be observed. Like all power equipment this unit must be handled carefully. DO NOT EXPOSE YOURSELF OR OTHERS TO DANGER Follow these general rules. Do not permit others to use this machine unless they are thoroughly responsible and have read, and understand the machine manual and are trained in its operation.

- Always wear safety goggles for eye protection. Dress properly, do not wear loose clothing or jewelry that could become caught in moving parts of the unit. Safe, sturdy, nonskid footwear should always be worn. Long hair should be tied back. It is recommended that legs and feet be covered to protect from flying debris during operation.
- Inspect the entire machine for loose parts (nuts, bolts, screws, etc.) and any damage.

  Repair or replace as necessary before using the machine.
- DO NOT USE any attachment with this power head other than the ones recommended by our company. Serious injury to the operator or bystanders could result as well as damage to the machine.
- Keep the handles free from oil and fuel.
- Always use proper handles and shoulder strap when cutting.
- Do not smoke while mixing fuel or filling tank.
- Do not mix fuel in an enclosed room or near open flames. Assure adequate ventilation.
- Always mix and store the fuel in a properly marked container that is approved by local codes and ordinances for such usage.
- Never remove the fuel tank cap while the engine is running.
- Never start or run the engage inside a closed room or building. Fumes from the exhaust contain dangerous carbon monoxide.
- Never attempt to make engine adjustments while the unit is running and strapped to the operator. Always make engine adjustments with the unit resting on a flat, clear surface.

- Do not use the unit if it is damaged or poorly adjusted. Never remove the machine's guard. Serious injury to the operator or bystanders could result as well as damage to the machine.
- Inspect the area to be cut and remove all debris that could become entangled in the nylon cutting head. Also remove any objects that the unit may throw during cutting.
- Keep children away. Onlookers should be kept at a safe distance from the work area, at least 15 METER(50 FEET)
- Never leave the machine unattended.
- Do not use this unit for any job other than those for which it is intended as described in this manual.
- Do not overreach. Keep proper footing and balance at all times. Do not run the unit
  while standing on a ladder or on any other unstable footing location.
- Keep hands and feet clear of the nylon cutting head while unit is in use .
- Do not use this type of machine for sweeping away debris.
- Do not use the unit when you are tired, ill or under the influence of medication, drugs or alcohol.
- Use nylon cutting head which is free of damage. If a stone or any other obstacle is hit, stop the engine and check the nylon cutting head. A broken or unbalanced nylon cutting head must never be used.

#### FOLLOW INSTRUCTION FOR CHANGING ACCESSORIES.

- Do not store in a closed area where fuel vapors can reach an open flame from hot water heaters, heaters, furnaces, etc. Store in a locked, well ventilated area only.
- ensure safe and proper performance of your product. These part are available from your dealer. The use of any other accessories or attachments may cause a potential hazard or injury to the user, damage to the machine and void this warranty.
- Clean the machine completely, especially, the fuel tank, its surroundings, and the air cleaner.
- When refueling, be sure to stop the engine and confirm that it is cooled down. Never refuel when the engine is running or hot. When gasoline spills, be sure to wipe it up completely and properly dispose of those materials before starting the engine.
- Stay clear of other workers or bystanders by at least 15 meters /50 feet,
- When ever approaching an operator of the machine, carefully call his attention and confirm that the operator stops the engine. Be careful not to startle or distract the operator which can cause an unsafe situation.
- Never touch the nylon cutting head when ever the engine is running. If it is necessary
  to adjust the protector or nylon cutting head, be sure to stop the engine and confirm that
  the nylon cutting head has stopped running.
- The engine should be turned off when the machine is moved between work areas.
- Be careful not to hit the nylon cutting head against stones, or the ground.
   Unreasonable rough operation will shorten the life of the machine as well as create an unsafe environment for yourself and those around you.

Pay attention to loosening and overheating of parts. If there is any abnormality of the machine, stop operation immediately and check the machine carefully. If necessary, have the machine serviced by a authorized dealer. Never continue to operate a machine which may be malfunctioning.

In start-up or during operation of the engine, never touch hot parts such as the

muffler, the high voltage wire or the spark plug.

■ After the engine has stopped, the muffler is still hot. Never place the machine in any places where there are flammable materials (dry grass, etc.), combustible gasses or combustible liquids.

Pay special attention to operation in the rain or just after the rain as the ground

may be slippery.

• If you slip or fall to the ground or into a hole, release the throttle lever immediately.

Be careful not to drop the machine or hit it against obstacles.

- Before proceeding to adjust or repair the machine, be sure to stop the engine and detach the spark plug cap from the spark plug.
- When the machine is placed in storage for a long time, drain fuel from the fuel tank and carburetor, clean the parts, move the machine to a safe place and confirm that the engine is cooled down.
- Make periodic inspections to assure safe and efficient operation. For a thorough inspection of your machine, please contact a dealer.
- Keep the machine away from fire or sparks.
- It is believed that a condition called Raynaud's phenomenon, which affects the fingers of certain individuals may be brought about by exposure 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 because the minimum exposure which might trigger the ailment is unknown.

Keep your body warm, especially the head, neck, feet, ankles, hands and wrists. Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks and also by not smoking.

Limit the hours of operation. Try to fill each day with jobs where operating the brush cutter or other hand-held power equipment is not required.

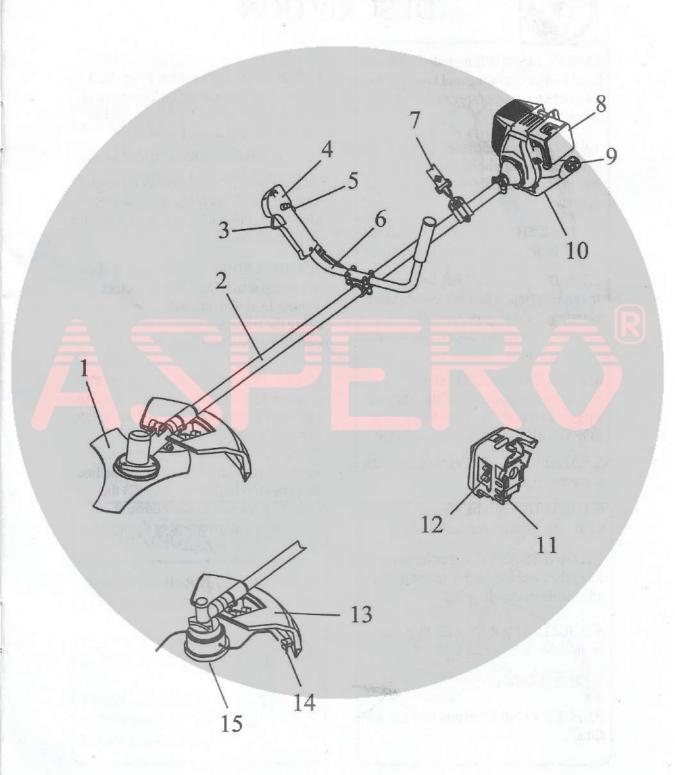
If you experience discomfort, redness and swelling of the fingers followed by whitening and loss of feeling, consult your physician before further exposing yourself to cold and vibration.

 Always wear ear protection, loud noise for long time can make hearing debase even lost hearing.

Total face and head protection must be wear to prevent damage from plummet or branch

- Wear no-slip heavy duty work gloves to improve your grip on the brush cutter handle. Gloves also reduce the transmission of machine vibration to your hands.
- WARNING: The cutter area is still dangerous while the machine is coasting to a stop.

# **DESCRIPTION**



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### DESCRIPTION

SAFETY MANUAL included with unit. Read before operating and keep for future reference to learn proper,safe operating techniques.

- 1.BLADE Circular blade for grass, weed or brush cutting applications. Harness, metal shield and U-Handles required for blade operation.
- DRIVE SHAFT ASSEMBLY Contains a specially designed liner flexible drive shaft.
- 3.THROTTLE TRIGGER Spring loaded to return to idle when released. When accelerating, press trigger gradually for best operating technique. Do not hold trigger while starting.
- 4. IGNITION SWITCH "slide switch" mounted on top of the Throttle Trigger Housing. Move switch FORWARD to Run, BACK to STOP.
- 5. SAFETY LEVER Before acceleration, compress it please.
- 6. U-HANDLE this handle can be adjusted at you convenience for comfort.
- 7.HARNESS ASS'Y a attachment which hang the machine on the operator and adjustable in length.
- 8. AIR CLEANER COVER Contains replaceable felt element.
- 9. FUEL TANK LID.
- 10. FUEL TANK Contains fuel and fuel filter.

- 11.PURGE BULB Pushing purge lulb(7 to 10 times before starting), will remove all air and stale fuel from fuel system and bring fresh fuel to the carburetor.
- 12. CHOKE the choke control is located on the top of the filter cover.

COLD STARTS Pull lever up to close choke for cold starts.push lever down for RUN position.

13.DEBRIS SHIELD Mounted just above the cutting attachment .Helps protect operator by deflecting debris produced during the trimming operation .Do not operate unit without shield.

14.CUT-OFF KNIFE Trims nylon filament to the correct length-7",head to end of line-when nylon trimming head is bumped on the ground during opration,line advance.if trimmer is operated without a cut-off knife the line becomes too long(more than 7") the operating speed will slow down the engine, this will overheat or damage the engine.

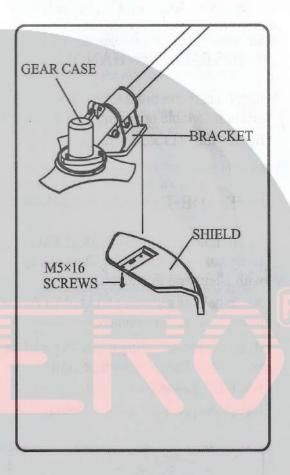
15.NYLON CUTTER HEAD Contains replaceable nylon trimming line that advances when the trimmer head is tapped against the ground whilethehead is turning at normal operating speed.

### ASSEMBLY

#### INSTALLING PLASTIC SHIELD

Install the safety cover on the shaft with the safety cover bracket and the screws provided.

Tighten the screws after setting the safety cover bracket at the appropriate position.

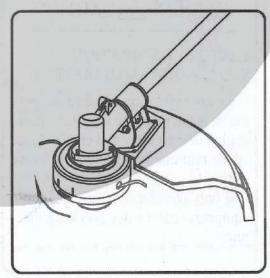


### WARNING CAUTION

# INSTALLING NYLON LINE CUTTER HEAD

Align hole in adapter plate with hole in shaft and install locking tool.

Thread cutter head onto shaft (turning it clockwise) until it is tight.
Remove locking tool.



### **ASSEMBLY**

### INSTALLING HANDLE

Install handle in bracket .Position handle in a comfortable operating position and tighten four M5 x 25 screws.

#### BLADE INSTALLATION

Install holder A, the tri-blade ,holder B, teeth washer,in this order,Then clamp with a lefthand thread net.

Align hole of gear case and holder A, and insert S=4mm bar wrench.

Rotate blade-fastening nut with plug box wrench in clocwise direction until securely tightened.

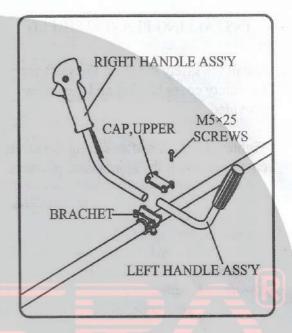
Install the pin 2 x 16 and disjoin it.

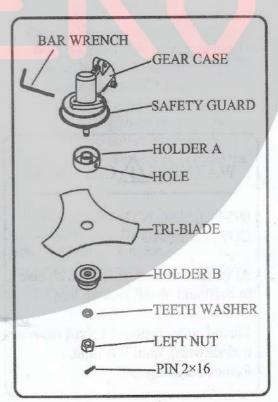
### WARNING ACAUTION

#### EXCESSIVE VIBRATION-STOP ENGINE IMMEDIATELY

Excessive vibration of blade means that it is not properly installed. Stop engine immediately and check blade. Blade improperly installed will cause injury.

Use only our company original cutting equipment parts when servicing the unit.





### RULES FOR SAFE OPERATION

# WARNING A DANGER

All models trimmers and brushcutters can throw small stone, metal or small objects as well as the material being cut. Read these "Rules for Safe Operation" with care.

Follow the instructions in your operator's manual.

Read the operator's manual carefully. Be thoroughly familiar with the controls and proper use of the unit. Know how to stop the unit and shut off the engine. Know how to unhook a harnessed unit quickly.

Never allow anyone to use the unit without proper instruction. Be sure the operator wears the foot, leg, eye, face and hearing protection. Do not rely on the debris shield on the unit to protect your eyes from ricocheting or thrown objects. Keep the area clear of bystanders, children and pets. Never allow children to operate or play with the unit.

Do not allow anyone to enter the operating DANGER ZONE with you. The danger zone is an area 15 meters in radius (about 16 paces) or 50 feet.

Insist that persons in the RISK ZONE beyond the danger zone wear eye protection from thrown objects. If the unit must be used where there are unprotected people, operate at a low throttle speed to reduce the risk of thrown objects.

Move the stop switch to "stop" position when the engine idles, insure it reliable before cutting. Only may continue to operate the unit when stop switch is in good condition.

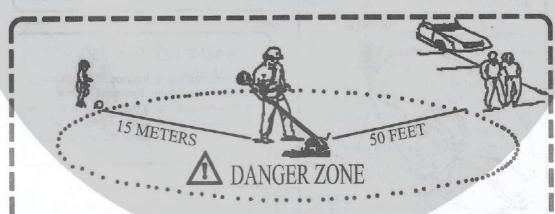
Routines for checking that the cutting attachment stops turning when the engine idles.

### WARNING ADANGER

In addition to head, eye, face and ear protectors shoes to protect your feet improve your footing on slippery surfaces. Do not wear ties, jewelry, or loose, dangling clothing which could be caught in the unit.

Do not wear open-toed footwear, or go barefoot or bare legged. In certain situations you must wear total face and head protection.

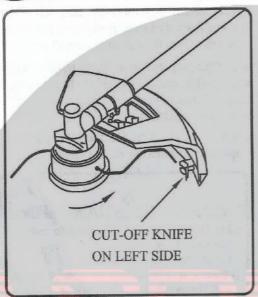
Pay attention not to kick back and blade thrust.



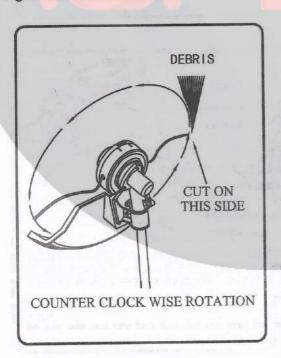
NO PERSON EXCEPT OPERATOR ALLOWED 15 METERS RADIUS DANGER ZONE.EYE,EAR,FACE, FOOT,LEG AND BODY PROTECTION MUST BE WORN BY OPERATOR.PERSONS IN ZONE OR RISK BEYOND DANGER ZONE SHOULD WEAR EYE PROTECTION AGAINST THROWN OBJECTS.RISK DIMINISHES WITH DISTANCE FROM DANGER ZONE.



### **CUTTING WITH A NYLON HEAD**



Line head rotates in a CLOCKWISE direction. The CUT-OFF KNIFE will be on the right side of the debris shield.



### WARNING ADANGER

The proper debris shield must be in place on the unit when nylon cutting line is used. The cutting line can flap around if too much line is exposed. Always use the plastic debri shield with cut-off knife when using nylon cutting heads.

For nearly all cutting, it is good to tilt the line head so that contact is made on the part of the line circle where the line is moving AWAY from you and the debris shield. (See appropraite picture) This results in the debris being thrown AWAY from you.

### WARNING DANGER

Tilting the head to the wrong side will shoot the debris TOWARDS you. If the line head is held flat to the ground so that cutting occurs on the whole line circle, debris will be THROWN at you, drag will slow the engine down, and you will use up a lot of line.

### WARNING ADANGER

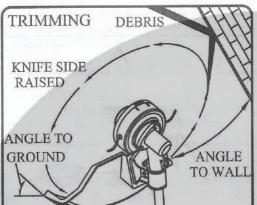
Use only quality nylon monofilament line of the diameter 2.5mm. Never use wire or wire-reinforced line in place of nylon trimmer line. Load your nylon line cutting head only with nylon trimmer line of the proper diameter.

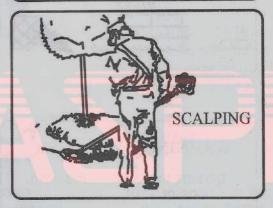
### WARNING ADANGER

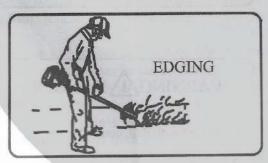
Use extreme caution when operating over bare spots and gravel, because the line can throw small rock particles at high speeds. Debris shields on the unit cannot stop objects which bounce or ricochet off hard surfaces.

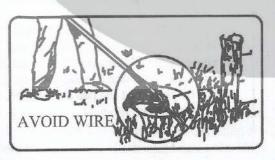


### **CUTTING WITH A NYLON HEAD**









#### TRIMMING:

This is feeding the trimmer carefully into the material you wish to cut. Tilt the head slowly to direct debris away from you. If cutting up to a barrier such as fence, wallor tree, approach from an angle where any debris ricocheting off the barrier will fly away from you. Move the line head slowly until the grass is cut right up the barrier, but do not jam(overfeed )the line into the barrier. If trimming up to a wire mesh or chain linked fence be careful to feed only up to wire. If you go to far the line will snap off around the wire. Trimming can be done to cut through weed stems one at a time. Place the trimmer line head near the bottom of the weed-never high up which could cause the weed to chatter and catch the line. Rather than cut the weed right through, just use the very end of the line to wear through the stem slowly.

### WARNING ADANGER

Do not to use a steel blade for edging or scalping.

#### SCALPING AND ENGING:

Both of these are done with the line head tilted at a steep angle Scalping is removing top growth leaving the earth bear.

Edging is trimming the grass back where it has spread over a sidewalk or drive way. During both edging and scalping, hold the unit a steep angle and in a position where the debris and any dislodging dirt and stones, will not come back towards you even if it ricochets off the hard surface. Although the picture shows how to edge and scalp every oprator must find for himself the angles which suits his body size and cutting situation.

### WARNING ADANGER

Do not trim in any area where there are strands of fencing wire. Wear protective safety protecting, Do not cut where you cannot see what the cutting device is cutting.



# **CUTTING WITH A BLADE**

#### **CUTTING WITH A BLADE**

The black guard which contain a cut-off knife must be take down.

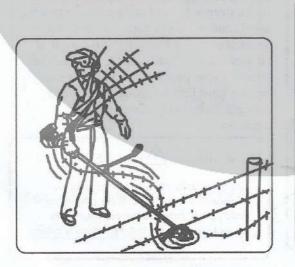
There are many different types of blades, however the two most commonly used are the following.

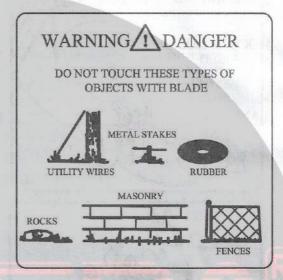
BRUSHBLADE is used for cutting brush and weeds up to 3/4" in diameter.

SAWBLADE is used for cutting growth from 3/4" to 3" in diameter.

### WARNING DANGER

Use the shoulder harness at all times. Adjust both harness and harness clamp on the unit so that the unit hangs a few inches above ground level. The cutting head and the metal debris shield should be level in all directions. Harness the unit on the right side of your body.





### WARNING DANGER

DO NOT USE A BRUSH CUTTER FOR CUTTING TREES.

### WARNING ADANGER

Do not cut with dull, cracked or damaged metal blade.

Before cutting growth, inspect for obstructions such as boulders, metal stakes or strands of wire from broken fences. If an obstruction cannot be removed, mark its location so that you can avoid it with the blade. Rocks and metal will dull or damage a blade. Wires can catch on the blade head and flap around or be thrown into the air.



### **CUTTING WITH A BLADE**

SCYTHING WEEDS. This is cutting by swinging the blade in a level arc. It can quickly clear areas of field grass and weeds. Scything should not be used to cut large, tough weeds or woody growths.

#### NOTE

Do not use a brush blade to cut trees which exceed a diameter of 1/2 to 3/4 inches.

Scything can be done in both directions, or just in one way which results in the debris being thrown away from you.

That is using the side of the blade that it is rotating away from you. Tilt down the blade slightly on this same side. You will be hit by some debris if you scythe in both directions.

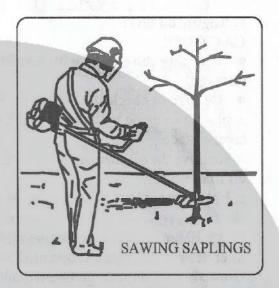
SAWING This must be done with a saw blade when the weeds are too thick and strong for scything.

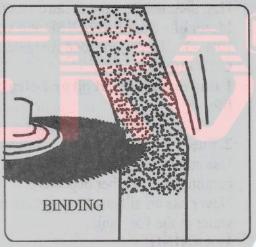
If kickback occurs, the blade may be dull, or the material so thick and hard that you should use a saw blade instead of the brush blade.

Growth up to 3-inches in diameter, which is too thick for scything, may be cut by sawing. Sawing requires judgement on your part whether to cut on the side where the blade pulls away from you but throws back the debris, or on the side where the debris is thrown away from you but the reaction is push which could become a kickout(blade thrust).

Always cut on the side of the tree which will cause the tree to fall away from the unit. A kickout or bind may result if the tree falls toward the unit and pinches the blade.

Do not force the blade to cut. Do not change the angle of cut after into the wood. Avoid using any pressure or leverage which could cause the blade to bind or crack.







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### ENGINE OIL LEVEL AND FUEL

### 1. Engine oil level

#### CAUTION!

- Running the engine with insufficient oil can cause serious engine damage.
- Be sure to check the engine on a level surface with the engine stopped.
- a. place the engine with the fuel tank side downward and horizontally on a level surface.
- b. Remove the oil filer cap and check the oil level: it should reach the top of the oil filler neck.
- c. If the level is low, fill to the top of the oil filler neck with the recommended oil.

Every 10 hours, check the engine oil level and replenish oil up to the top of the filler neck if the engine is operated for more than 10 hours continuously. Use an high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacture's requirement for service classification SG, SF. Motor oils classified SG, SF will show this designation on the container. SAE 10W -30 is recommended for general, all temperature use.

#### **CAUTION!**

Using nondetergent oil or 2-stroke engine oil could shorten the engine's life.

#### 2. Fuel

Use automotive gasoline (unleaded or lowleaded is preferred to minimize combustion chamber deposits).

Never use an oil/gasoline mixture or dirty gasoline. Avoid getting dirt, dust or water in the fuel tank.

#### **WARNING!**

- Gasoline is extremely flammable and is explosive under certain conditions.
- Refuel in a well-ventilated area with the engine stopped. Don't smoke
  or allow flames or sparks in the area where the engine is refueled or where
  the engine is stored.
- Don't overfill the tank (there should be no fuel in the filler neck). After refueling, make sure the tank cap is closed properly and securely.
- Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- Avoid repeated or prolonged contact with skin or breathing of vapor.

### PREPARING FOR OPERATIONS

#### GASOLINE CONTAINING ALCOHOL

If you decide to use a gasoline containing alcohol (gasohol), besure it's octane rating is high. There two types of "gasohol" one containing ethanol, and the other containing methanol. Don't use gasoline containing methanol (methyl or wood alcohol) that does not also contain cosolvents and corrosion inhibitors for methanol. Never use gasoline containg more than 5% methanol, even if it has cosolvents and corrosion inhibitors.

#### CAUTION!

- Fuel system damage or engine performance problems resulting from the use of fuels that contain alcohol is not covered under the warranty. We can't endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.
- Before buying fuel from an unfamiliar station, try to fine out if the fuel contains alcohol, if it does, confirm the type and percentage of alcohol used. If you notice any undesirable operating symptoms while using a gasoline that contains alcohol, or one that you think contains alcohol, switch to a gasoline that you know does not contain alcohol.
- Never fill the fuel tank to the very top.(under 3/4 of the tank)
- Never add fuel to the tank in a closed non-ventilated area.
- Do not add fuel to this unit close to an open fire or sparks.
- Be sure to wipe off spilled fuel before attempting to start engine
- Do not attempt to refuel a hot engine.

#### CHECK POINTS BEFORE OPERATION

- 1. Check for loose bolts, nuts and fittings.
- 2. Check the air cleaner for dirt. Clean the air filter of all dirt, etc. before operation.
- 3. Check to be sure that protector is securely in place.
- 4. Check to be sure that fuel is not leak.
- 5. Check to be sure that blade is no crack.

# WARNING ADANGER

The engine exhaust from this product contains chemicals known to cause cancer, birth defects, or other reproductive harm.

### **OPERATIONS**





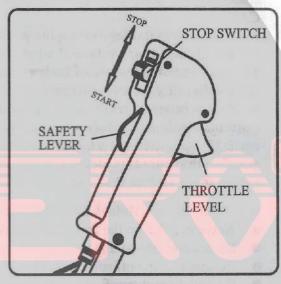




ENGINE STARTING AND STOPPING PROCEDURES

#### STARTING COLD ENGINE

- 1. Move the stop switch to "START" position.
- 2. Give a gentle push on the primer pump repeatedly (7-10times) until fuel comes into the primer pump.
- 3. Cold Starts: Pull lever up to close choke.
- 4. Pull starter handle until engine false fires.
- 5. Push choke lever inwards (excessive cranking with choke lever will cause flooding engine making it difficult to start.)
- 6.Pull starter handle until engine starts.
  7.Allow engine to warm up for a few minutes before using.



#### STARTING WARM ENGINE

 If fuel tank was not run dry, pull starter one to three times and engine should start.

#### DO NOT USE CHOKE

 If fuel tank was run dry, after refilling repeat steps 3 thru 7 in STARTING COLD ENGINE,

#### STOPPING THE ENGINE

• Move switch to STOP position.

### MAINTENANCE & CARE

#### AIR FILTER

- Accumulated dust in the air filter will reduce engine efficiency. Increase fuel consumption and allow abrasive particles to pass into the engine. Remove the air filter as often as necessary to maintain in a clean condition.
- Light surface dust can readily be removed by tapping the filter. Heavy deposits should be washed out in suitable solvent.
- Remove filter cover by loosening air filter cover knob.

# ADJUSTING CARBURETOR NOTE

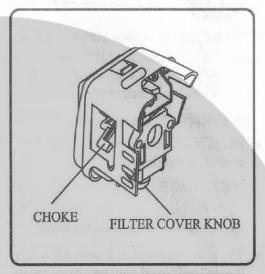
Do not adjust carburetor unless necessary. If you have trouble with the carburetor, see your dealer. Improper adjustment may cause engine damage and void warranty.

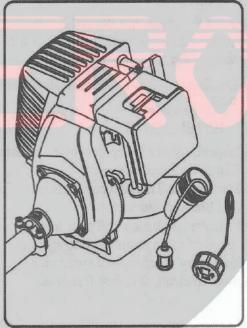
#### FUEL FILTER

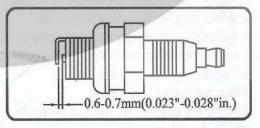
- Fuel tank is fitted with a filter.
   Filter is situated at the free end of fuel pipe and can be picked out through fuel port with a piece of hooked wire or the like.
- Check the fuel filter periodically. Do not allow dust to enter into fuel tank. Clogged filter will cause difficulty in starting engine or abnormalities in engine performance.
- When filter is dirty, replace the filter.
- When the inside of the fuel tank is dirty, it can be cleaned by rinsing the tank out with gasoline.

#### CHECK SPARK PLUG

Do not attempt to remove the plug from a hot engine in order to avoid possible damage to the threads.









# TROUBLE SHOOTING

- Clean or replace the plug if fouled with heavy oily deposits.
- Replace the plug if the center electrode is worn rounded at the end.
- OSpark gap 0.6-0.7mm (.023".028")
- Fastening torque =145-155kg.cm(125-135in.lb)

#### TRANSPORT, HANDLING

 Blade guard should be installed when transport, handing of the unit.

#### INSTALLING BLADE GUARD

Clefte the blade guard and install on the blade, then put the pin into the guard notch.

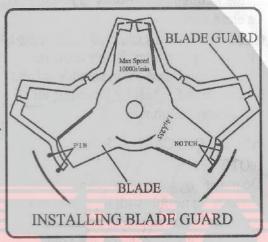
- The engine should be turned off when the unit is moved between work areas.
- After the engine has stopped, the muffler is still hot, never touch hot Parts such as the muffler.
- Confirm that the fuel is not leaked from tank.

#### **EXTENDED STORAGE**

- Inspect, clean and repair unit if necessary.
- Remove all fuel from tank.
- Start engine-This will consume all fuel in fuel line and carburetor.
- Remove spark plug and pour one tea spoon of clean motor oil into spark plug hole of cylinder-replace spark plug.
- Store in clean, dry, dust free area.

FAILURES such as difficulty in starting engine, irrgularity in functions and abnormality in performance can normally be prevented if careful attention is paid to all operating instructions and maintenance procedures.

Should the engine not funtion properly, check the following:



- That the fuel system is in good condition and fuel is flowing to the engine.
- The ignition system is in good condition and the spark plug, sparks correctly.
- Compression of the engine is adequate.

#### FAILURE TO START

- Dispose of fuel in tank.
- Insure that fuel is fresh and clean.
- Check fuel filter to make sure it is clean. (Replace filter if necessary).
- Make sure air filter elements are clean.
- Install new, properly gapped spark plug.
- When there is serious trouble with the unit, do not try to repair it yourself, but have your distributor or dealer do it for you.

# TROUBLESHOOTING GUIDE

### 1.FAILURE TO START

symptom				probable cause	remedy	
	spark plug spark normal	fule system abnormality		these is no fuel in tank fuel filter obstruct	add fuel in tank	
cylinder compress pressure normal		fule system normal	fule	fuel is too dirty there is water in fuel there is too much fuel in cylinder	instead fuel instead fuel tear down spark plug and dry it	
	fule	high voltage spark		spark plug fouled with oily deposits	clean the oily deposits	
	system	wire spark normal	plug	spark plug insulation damage spark gap is too large or small	replace spark plug adjust spark gap 0.6-0.7mm	
	normal	high voltage wire spark abnormality		high voltage wire breach or break off coil looseness	replace or tighten	
fule system	ignition system	is		piston ring attrite piston ring is breaked piston ring cementation spark plug looseness conjoint surface of the cylinder and crank cass leak	replace a new replace eliminate tighten eliminate	
normal	normal	comp	oress	high voltage wire and spark plug contact badness	tighten the spark plug cap	
		normal		stop switch failure or short circuit	repair or replace	

### TROUBLESHOOTING GUIDE

### 2.LOW OUTPUT

symptom	probable cause	remedy	
flameout when speedup the smoke is thin, carburetor spout backward	fuel filter obstruct, fall short of fuel muffler fouled with oily deposits	clean fuel filter, clean fuel road adjust carburetor clean the oily deposits	
compress press is shortage	piston, piston ring, cylinder attrite,	replace piston, piston ring	
engine leak	conjoint surface of the cylinder and crank cass leak	repair	
the end of two crank shaft leak	the seal is bad	replace seal	
(8)	engine overheats	avoid use it for long time , high speed and heavy load	
	burning room fouled with oily deposits	clean the oily deposits	

### 3.ENGINE RUNNING UNSTABLE

symptom	probable cause	remedy replace piston, piston ring replace piston pin, piston replace bearing	
there are knock sound in engine	piston, piston ring, cylinder attrite, piston pin, piston attrite bearing of crank shaft attrite		
there are metal knock sound	engine overheats burning room fouled with oily deposits gasoline branded is unfit	avoid use it for long time high speed and heavy load clean the oily deposits  replace require branded octane	
engine ignition break off	there is water in fuel spark gap is wrong coil gap is wrong	instead fuel adjust spark gap 0.6-0.7mm adjust coil gap 0.3-0.4mm	

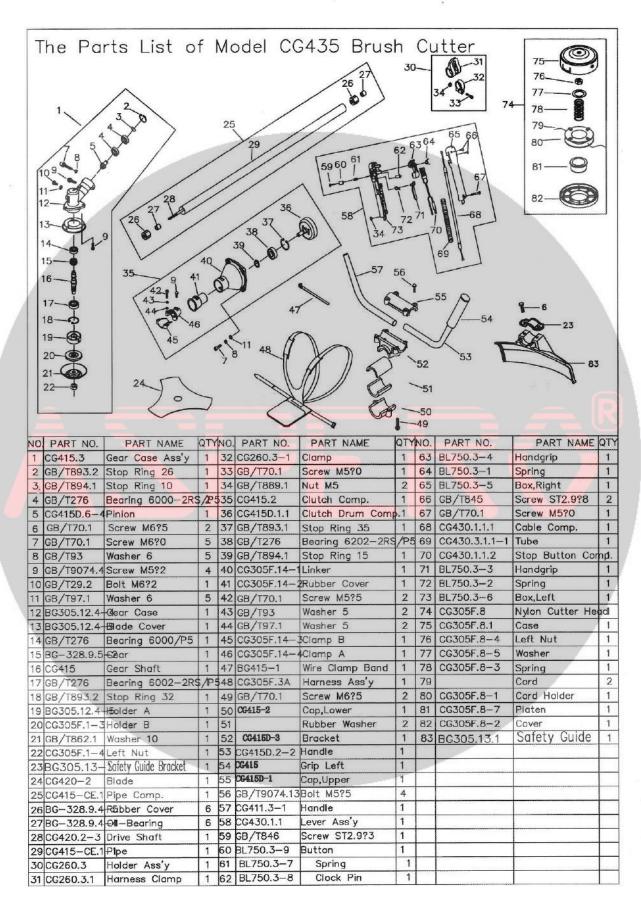
### 4. THE ENGINE SUDDENLY STOPPED

probable cause	remedy		
fuel is use up spark plug fouled with oily deposits and short circuit high voltage wire fall off	add fuel clean the oily deposits connect		



### Appendix. list of 140FA Gasoline Engine Parts

SER. NO.	PART NO.	PART NAME	QTY.	SER. NO.	PART NO.	PART NAME	QT
1	140FA-LD15	Screw M5×15	7	43	140FA-5	Gasket	1
2	140FA-25	Cylinder cover	1	44	140FA-12	Carburetor	
3	140FA-LD12	Screw M5×12	4	45	140FA.6.1	Cleaner inside cover	
4	140FA-20	Cylinder valve cover	1	46	140FA-LD22	Screw M5×22	6
5	140FA-16	Oil gas separator	1	47	140FA.6-1	Filter net	1
6	140FA.8	Inside cover	1	48	140FA.6-2	Air filter cover	1
7	GB/T818	Screw M4X8	4		140FA.3.2-2	NO1. piston ring	
8	140FA-17	Rubber cushion	1		140FA.3.2-3	NO2. piston ring	
-	140FA-19	Rubber cushion	1			Oil scraper ring	1
	140FA.1-2	Valve spring seat	2		140FA.3.2-4-2	The state of the s	
	140FA.1-1	Valve spring	2		140FA.3.2-1	Piston	
12	140FA.1.4	Exhaust valve rocker	1	54	140FA.3.1	Crankshaft	
13	140FA.1.5	Inlet valve rocker	1		140FA.3.2-6	Piston pin	
	140FA.1-6	Rocker pin	2		140FA.3-1	Oil seal	-
	140FA.1-7	Exhaust rocker	1	57	142F-9	Oil scale	
	140FA.1-8	Inlet rocker	1		GB3452.1	O-seal ring 14×2.65	
4 000	140FA-3	Synchronous belt		59	GB 1099	NAME OF TAXABLE PARTY.	
	140FA.4.1	Cam wheel	1		140FA.3-2	Key 3X5X13 Oil seal	
	140FA.4-1	Camshaft	1	61	140FA.1.3	Reed vavle	
10,700,00	139F.9-2	Start reel	1	62	140FA.7-2		
	140FA.2	Starter	1	63		Magneto rotor comp.	
	140FA-7	Admitting gasket	1	64	GB/T6177.1 1E36F-3	Nut M8	
10000	3WF-3-3	Holding-down clip	1	65	1E40F-5.6	Washer	4
			1	66		Clutch	2
	140FA-18	Muffler baffle-II	4		1E40F-5-11	Washer	2
25	GB/T6177.1	Nut M5		-	1E40F-5-12	Screw pin	M
	140FA-22	Double-edged bolt	2	68 69	GB119.2	Pin B4X8	4
-	140FA.9	Muffler	1		140FA-13	Magneto cover	
	140FA-2	Muffler baffle	1		140FA.1.2	Crankcase	
	CMR5H	Spark plug	1		140FA-LD32	Screw M5×32	4
	140FA.1.1.1	Cylinder	1	Company of the last	140FA.5.1-1		i
-	140FA-14	Fastener	1	-		Aîr admission valve	1
-	140FA.7-1	Ignition stator	1	-	140FA.5.1-3		1
-	GB/T70.1	Screw M4X14	2	Ministration and the Contraction of the Contraction	140FA.5.1-5		1
	140FA.7-3	Stopping wire	1			Airproof gasket	1
35	140FA.1-3	Exhaust valve	1		140FA-4	Rubber cushion	-
	140FA.1-4	Inlet valve	1		140FA.5-1	Fuel tank	
-	140FA-1	Balancing pressure pipe	1		140FA.5.2	Plug	
	3WF-3.19-1	Holding-down clip	1	80		Fuel return pipe	1
	140FA-15	0-seal ring	1	81		Fuel suction pipe	1
	GB5780	Screw M5×55	2		1E34F.9.2-3		1
	140FA-6	Admitting pipe	1	07	1E31F.4-3	Ring	2
	140FA-21	Blast pipe	1	84			



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