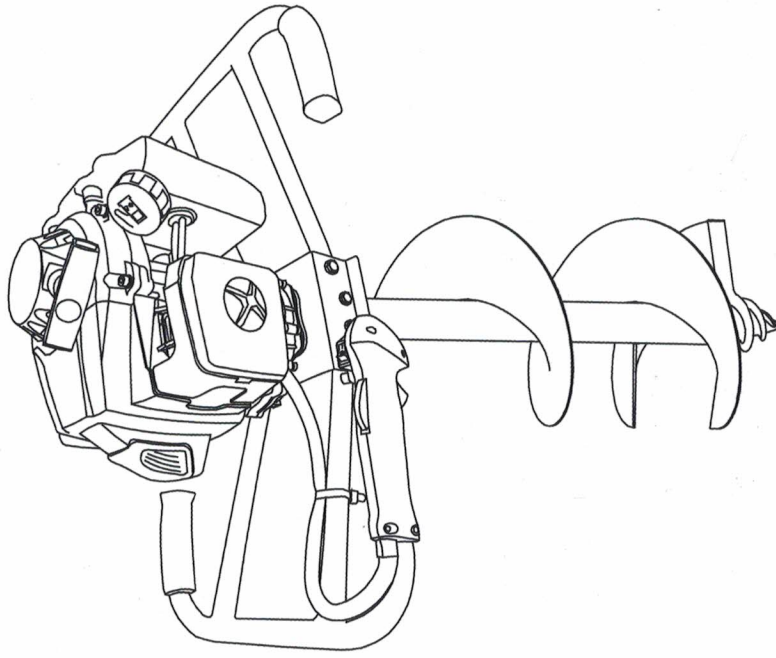




81008

OPERATORS MANUAL



IMPORTANT!
IT IS ESSENTIAL THAT YOU READ INSTRUCTIONS IN THIS MANUAL
BEFORE OPERATING THIS MACHINE

SAFETY PRECAUTIONS

CONTENTS

if used correctly, the carbide auger is a powerful, fast, high-
torque tool. If used improperly or without the due precautions it could become a dangerous tool. For
more information on the safe use of this tool, please refer to the following safety information.

PREFACE.....	2
SAFETY PRECAUTIONS.....	3
1) Warning labels on the machine.....	3
2) Safety Precautions.....	4
MAIN SPECIFICATIONS.....	6
ASSEMBLY.....	7
STARTING.....	9
1) Fuel Mixture.....	9
2) Starting The Engine.....	10
STOP THE ENGINE.....	12
MAINTENANCE-STORAGE.....	13
TROUBLESHOOTING GUIDE.....	16
1) Starting Failure.....	16
2) Lack of Power.....	16
3) Engine stops while running.....	17
4) Engine hard to stop.....	17
5) Other.....	17
WARRANTY.....	18

Toxic Fumes

2) Safety Precautions

(1) - The carbide auger must only be used by adults in good physical condition with knowledge of

CONTENTS

PREFACE

Dear users:

Thank you very much for purchasing our earth auger. Before using, please read this manual carefully to know well about the machine's performance, so as to operate the machine safely and correctly. Please keep this manual handy so that you may refer to it later. Always be sure to include this manual when transferring or lending this machine. Explain this manual fully to the receiver if necessary so as not to damage the machine or be injured because of incorrect operation. By the way, due to changes of specifications, not all details of your machine agree with this manual. Please understand accordingly.

We not only supply the product of high quality, but also give you the best after-sale service. Please buy and use it without any worry.

Thank you again for having chosen our products.

MAINTENANCE-STORAGE	13
TROUBLESHOOTING GUIDE	16
1) Starting Failure	16
2) Lack of Power	16
3) Engine stops while running	17
4) Engine hard to stop	17
5) Other	17
WARRANTY	18

SAFETY PRECAUTIONS

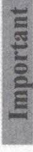
Warning If used correctly, the earth auger is a powerful, fast, high-performance tool; if used improperly or without the due precautions it could become a dangerous tool. For pleasant and safe work, always strictly comply with the safety rules that follow and throughout this manual.



It is important that you read, fully understand and observe the following safety precautions and warning. Careless or improper use of this machine may cause serious or fatal injury.



This mark indicates instructions, which must be followed in order to prevent accidents, which could lead to serious bodily injury or death.



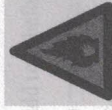
This mark indicates instructions, which must be followed, or it leads to mechanical failure, breakdown, or damage.



This mark indicates hints or directions useful in the use of the product.

1) Warning labels on the machine

The following labels are used on the machine. Be sure to fully understand the meaning of each label.



a. Fire



b. Hot Surface



c. Toxic Fumes

2) Safety Precautions

(1) — The earth auger must only be used by adults in good physical condition with knowledge of

the operating instructions.

- (2) — Do not operate the earth auger when you are tired or fatigued or under the effect of alcohol and drugs.
- (3) — Never wear scarves, bracelets or anything else which could be taken up by the machine or bit. Wear close-fitting safety clothing.
- (4) — Wear protective non-slip safety shoes, gloves, glasses, ear protection and safety helmet.
- (5) — Do not allow other people to remain in the operating range of the earth auger while starting, carburetion and utilize.
- (6) — Do not start working until you have a clear work area. Do not work near electric cables.
- (7) — Only use the earth auger in well-ventilated places, do not operate the earth auger in explosive or flammable atmospheres or in closed environments
- (8) — Carry the earth auger with the engine stopped, with its bit removed.
- (9) — Replace the bit immediately if any cracks or other damage are present.
- (10) — Use the mixture of 90# gasoline and 2stroke engine oil(50:1~25:1)
- (11) — Fill the tank away from sources of heat and with the engine stopped. Never smoke while filling.



NO BURNING



NO SMOKING

- (12) — Never take the cap off the tank when the engine is running. If fuel spills over while filling, move the earth auger at least 3 meters away before starting.
- (13) — Always keep the handles dry and clean
- (14) — Before starting make sure the bit is not obstructed
- (15) — Always work in firm-footed and safe position
- (16) — Never touch the bit or carry out maintenance while the engine is running
- (17) — Make sure that the bit does not turn when the engine is idling
- (18) — Grip the earth auger firmly with both hands ;keep all parts of the body away from the bit and muffler.
- (19) — Never attempt to carry out servicing or repairs that are not part of the routine maintenance. Call specialized and authorized workshops only.

- (20) — Store the earth auger off the ground in a vertical position in a dry place and with fuel tank empty.

- (21) — Check the earth auger each day to ensure that each device, whether for safety or otherwise, is functional.
- (22) — Transport the earth auger during working from one place to another with the engine idling.
- (23) — Never use a damaged, modified, or improperly repaired or assembled earth auger. Do not remove damage or deactivate any of the safety devices. Only use bit of the type indicated in the table.
- (24) — Never touch the spark plug cover or wire while the engine is in operation. Doing so could result in electrical shock.
- (25) — Do not use the earth auger until you have completely understood the specific operating methods. Always follow the manufacturer's instruction for the maintenance operations.
- (26) — After the engine starts or before it stops, allow it run 2-3 minutes at a low speed without any load. Avoid running at a full throttle without any load. Never stop the engine suddenly at high speed.
- (27) — After engine starts, never touch the muffler and the cylinder. Doing so could result in serious burns.
- (28) — If your earth auger is no longer usable, disposed of it properly without damaging the environment by handing it in to your local Dealer who will arrange for its correct disposal.
- (29) — Only loan your earth auger to expert user who are completely familiar with earth auger operation and correct use. Give other users the manual with operating instruction, which they should read before using the earth auger.
- (30) — All saw service, other than the operations shown in the present manual, should be performed by competent personnel.
- (31) — Keep this manual on hand and consult it before each use of tool
- (32) — Check, adjust, repair and clean the machine regularly. When replacing parts, please use the tools specified by our company.
- (33) — It is forbidden to hitch tools or applications to the P.T.O. that are not specified by the manufacturer.

4) Put the drill(D, Fig.4) onto the PTO shaft(E, Fig.4) , and fix it with the drill

MAIN SPECIFICATIONS

Name	Earth auger		81008
Model	AG43S	AG52S	AG63S
Packing MEAS. (cm) 1)	38×30×37	38×30×37	38×38×38
Weight (kg) 2)	9.8kg	10kg	10.6kg
Reduction ratio	40:1		
Speed-change Type	Double-reduction		
Transmission Mode	Centrifugal friction clutch		
Auger Bits (cm) 3)	φ8/φ10/φ15/φ20	φ8/φ10/φ15/φ20	φ8/φ10/φ15/φ20 /φ25/φ30
Type	Operated by two persons		
Type	Air-cooled Two stroke engine		
Model	1E40F-5	1E44F	1E48F
Power (kW/r/min)	1.25/6500	1.46/6500	2.2/7500
Displacement(ml)	42.7	51.7	63.3
Idle speed	(2800±150) r/min		
Clutch speed	(3950±150) r/min		
Way of ignition	Electronic ignition (CDI)		
Ignition system	magneto		
Form of carburetor	Diaphragm		
Fuel	Mixture(gasoline: oil=50:1~25:1)		
Tank capacity(L)	1	1	1.45

1) Contains only the packing size of host.

2) Contains only the host weight.

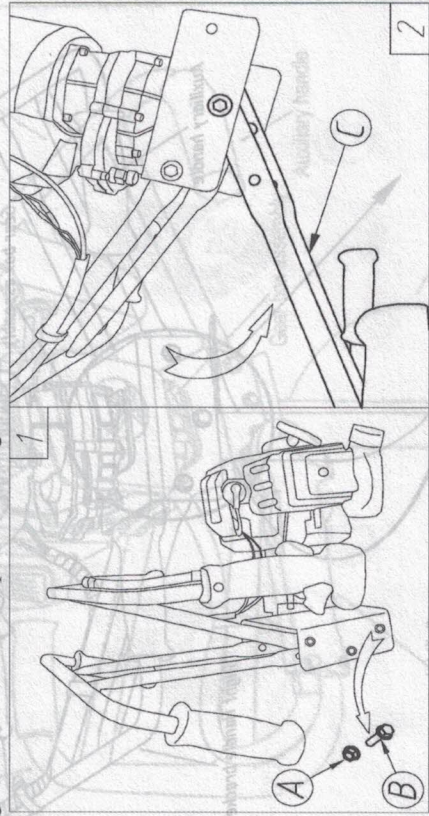
3) The detailed specification can be customized.

Warning

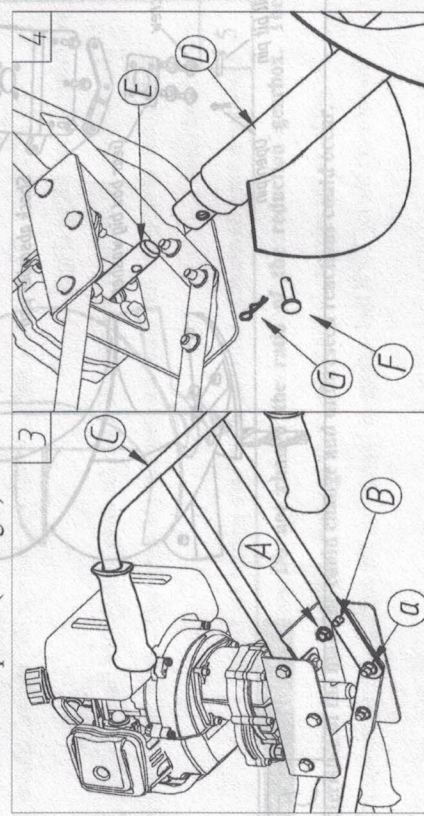
Specifications are subject to change without notice.

ASSEMBLY

- 1.) Take out the product from the package, take down 2 lock nuts (A, Fig.1) and 2 screws (B, Fig.1) from the link plank.
- 2.) Rotate the right handle bracket (C, Fig.2) following the direction in Fig.2, until it reaches the position in Fig.3.

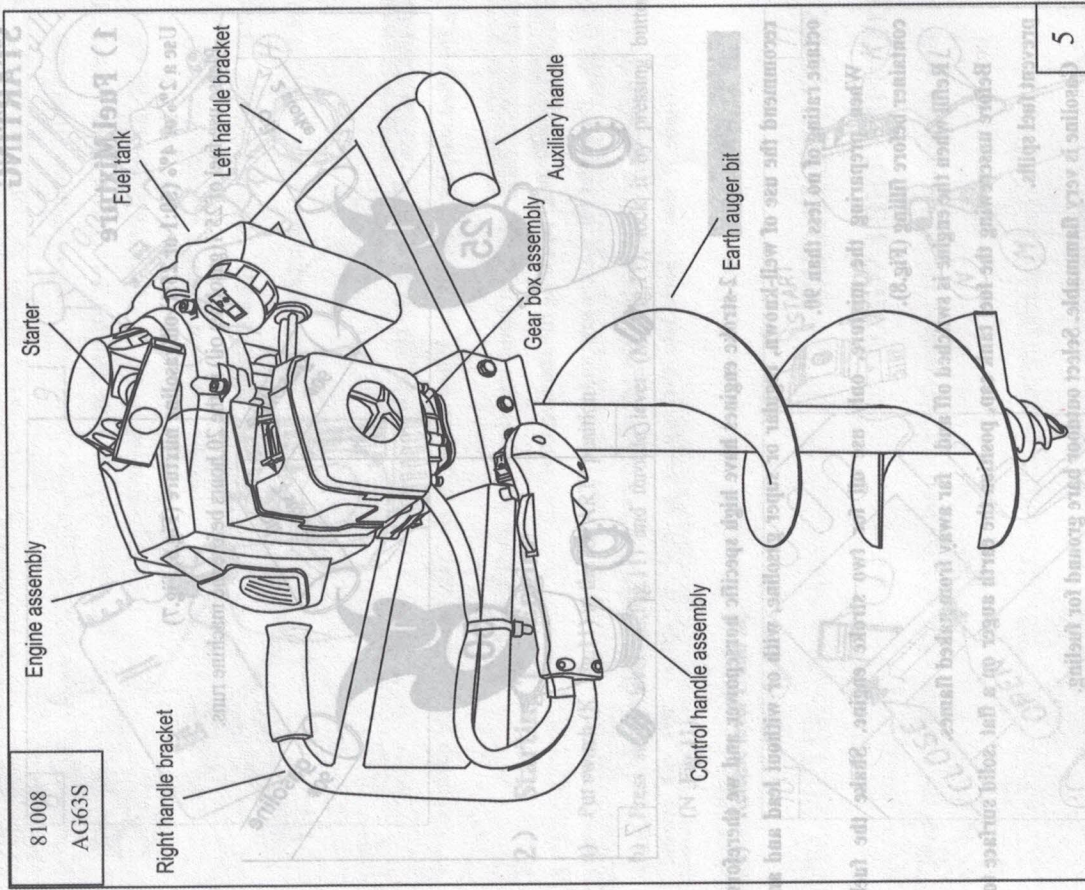
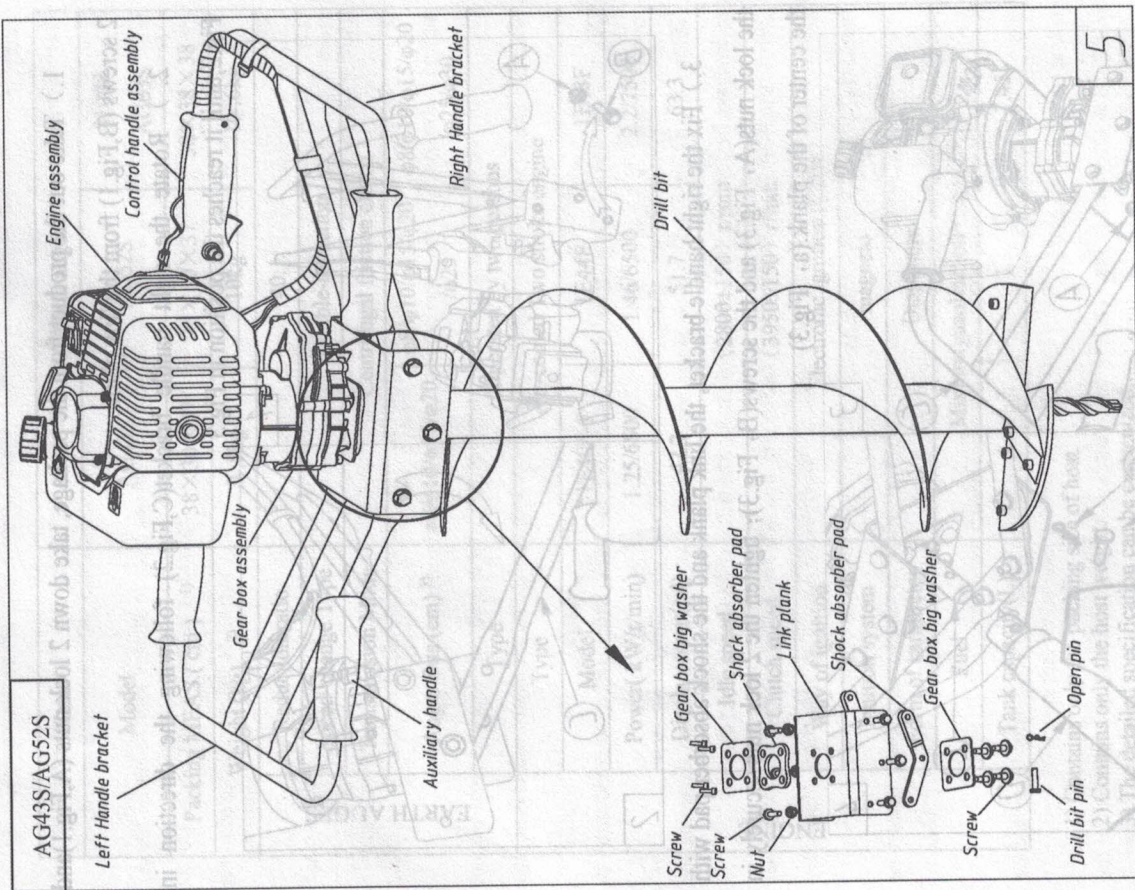


- 3.) Fix the right handle bracket, the link plank and the shock absorber pad with the lock nuts (A, Fig.3) and the screws (B, Fig.3); tighten the 2 lock nuts securely in the center of the plank. (a, Fig.3)



- 4.) Put the drill (D, Fig.4) onto the PTO shaft (E, Fig.4), and fix it with the drill

bit pin(F, Fig.4), open pin(G, Fig.4). As shown in Fig.5



Warning - Do not change the ratio of the reduction gearbox. The characteristics of the machine could change and unforeseen reactions could occur.

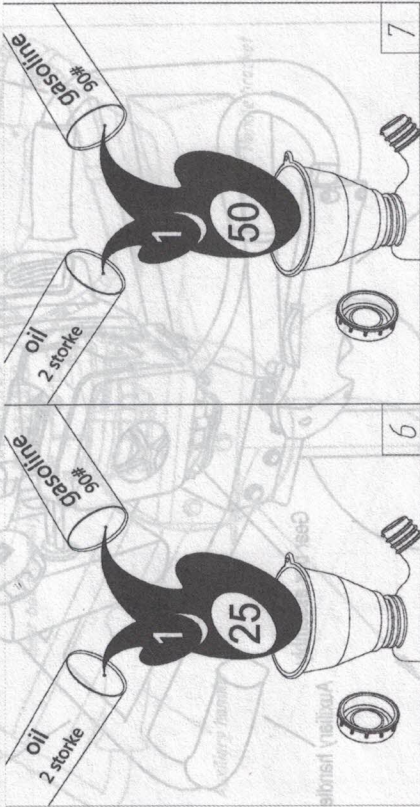
Push the piston rod (Fig. 9) a few times until the fuel comes out of the fuel tube.

STARTING

1) Fuel Mixture

Use a 2% or 4% (50:1 or 25:1) oil/gasoline mixture (Fig.6, Fig.7)

Please use fuel of 25:1 (gasoline: oil) in the 20 hours before the machine runs.



Warning – 2-stroke engines have high specific horsepower and we therefore recommend the use of well-known, regular or super gasoline, with or without lead and an octane rating of no less than 90.

When preparing the mixture, only use oil for two stroke engine. Shake the fuel container before filling (Fig.8).

Refill when the engine is switched off and far away from naked flames.

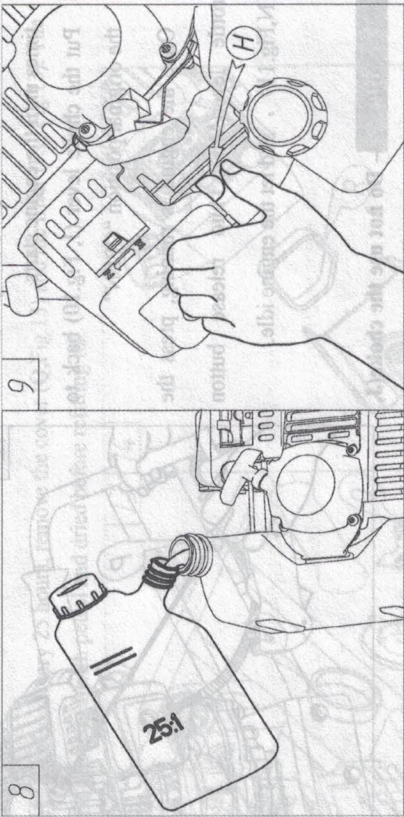
Before unscrewing the fuel tank cap, position the earth auger on a flat, solid surface to prevent fuel spills.

Gasoline is very flammable. Select outdoor bare ground for fueling.

Never add or replace fuel when the engine is in operation or before the engine stops.

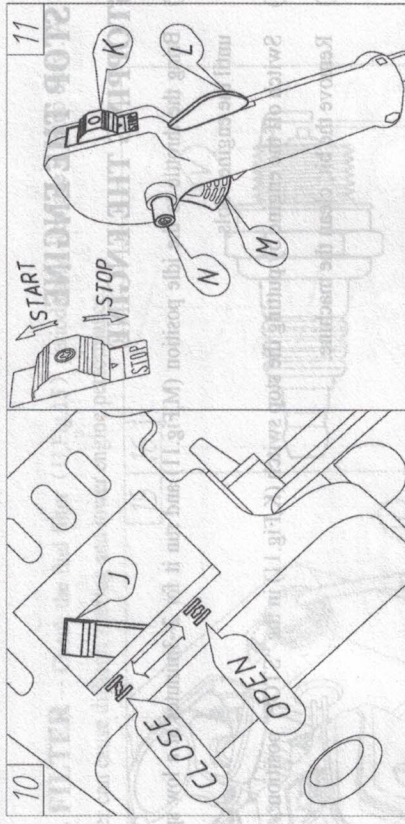
Do not leave the mixture in the fuel tank or in a fuel canister for a long period of time.

Do not start the engine if fuel leakage is found. Run the engine until the leak is fixed.



2) Starting The Engine

- Put switch (K, Fig.11) in the "START" position.
- Press safety lever (L, Fig.11) and throttle lever (M, Fig.11), lock it by pressing button (N, Fig.11).
- Release lever L and M.



d) Put the choke lever (J, Fig.10) in position "CLOSE".

e) Push the primer bulb(H, Fig.9) a few times until the fuel comes out of the fuel tube.

- f) Pull the starter rope (P, Fig.12) a few times until the engine starts.
- g) Put the choke lever (J, Fig.10) back to the original position "OPEN"
- Once the engine is running, press the throttle lever(M, Fig.11) to release button (N, Fig.11), and let the engine idle.

Note — Do not use the choke(J, Fig.10) when starting a hot engine. When the engine is idling, the bit should not turn.

Warning — If the bit jams, stop the engine immediately.

Note — When pulling the starting rope

- Do not let the starter grip snap back
- Do not pull the starter rope out all the way as it might break.(Fig.12)
- Guide it slowly back into the housing so that the starter rope can rewind properly.

STOP THE ENGINE

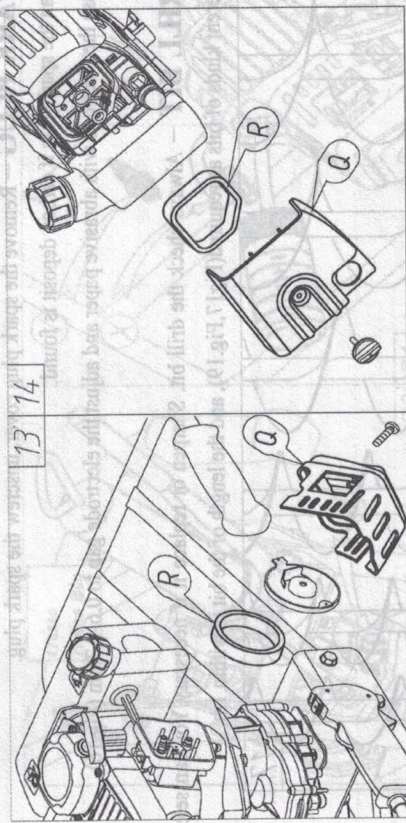
STOPPING THE ENGINE

- Bring the throttle to the idle position (M, Fig.11) and run it for 2-3 minutes at a low speed until the engine cools.
- Switch off the engine by putting the stop switch (K, Fig.11) in the "STOP" position.
- Remove the bit, clean the machine.

Important Avoid stopping the engine suddenly when it runs in high speed. Doing so could cause damage to the machine.

MAINTENANCE-STORAGE

AIR FILTER — Every 25 hours, remove the cover (Q, Fig.13) and the filter (R, Fig.13). The filter should be washed with petrol and dried before refitting its.

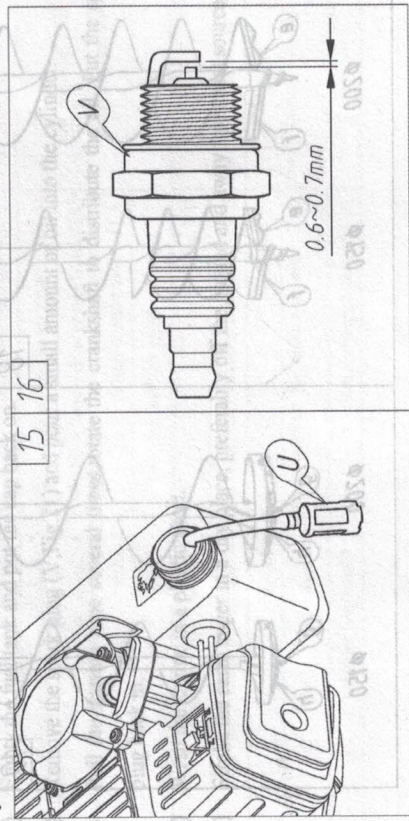


CARBURETOR

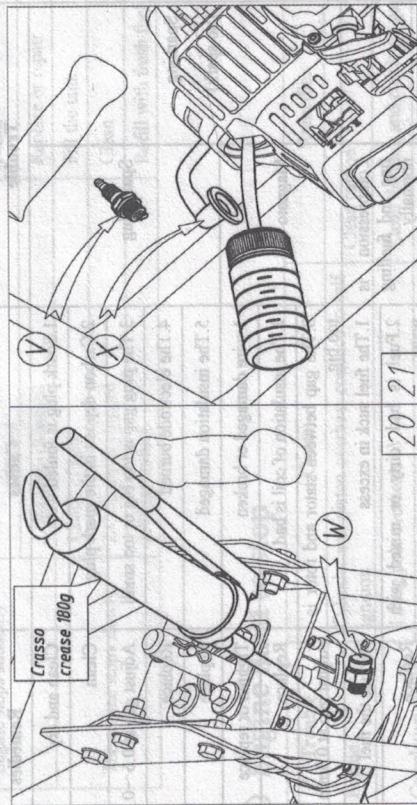
Warning — The carburetor is very important part. The important specifications of carburetor such as mixed ratio, the idle performance, have been adjusted well when coming from the factory. Never adjust it by yourself.

Important — Weather conditions and altitude may affect carburation.

FUEL FILTER — Check the fuel filter (U, Fig.15) periodically. Replace it if too dirty. A dirty filter can cause difficult starting and lower engine performance.



REDUCTION GERABOX –During normal operation, every 50 hours, remove, check and clean the vent cap(W, Fig.20). Every 100 hours, change the grease in the reduction gearbox (Fig.20).



STORAGE

- Follow all the maintenance procedures described previously.
- If storing for a long period of time, clean the earth auger completely and grease the metallic part.
- Remove, clean and oil the bit to prevent rusting.
- Empty the fuel tank and put the cap back on.
- Remove the spark plug (V, Fig.21) and pour a small amount of oil into the cylinder.
- Pull the starting rope several times, rotate the crankshaft to distribute the oil. Put the spark plug back in.
- Wrap the engine in a plastic sheet.
- Stroke the earth auger in a dry place, preferably off the ground and away from heat sources.

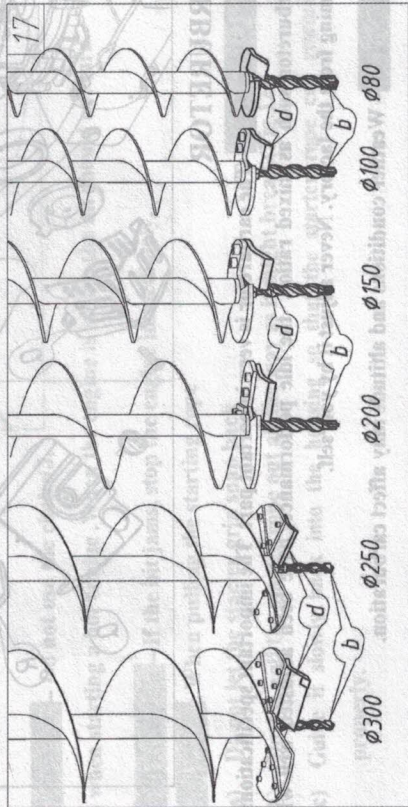
ENGINE – Clean the cylinder fins with compressed air or a brush periodically. Dangerous overheating of engine may occur due to impurities on the cylinder.

SPARK PLUG – Remove the spark plug cover, unscrew the spark plug.

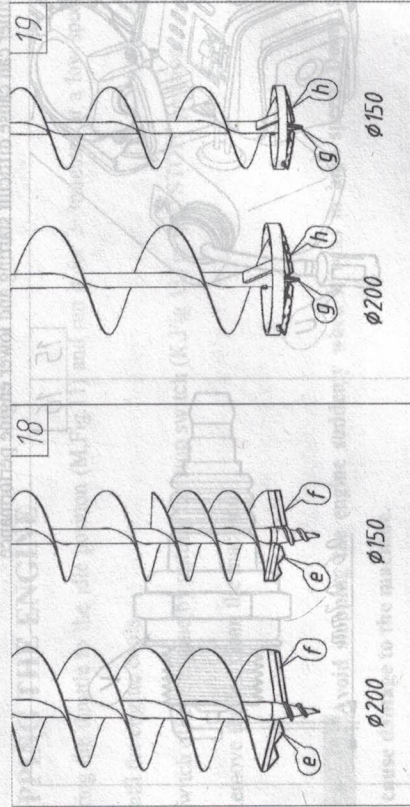
Clean the spark plug if carbon deposit is found.

Polish the electrode with abrasive paper and adjust the electrode gap to 0.6-0.7mm (Fig.16).

DRILL BIT – Always check the drill bit. Sharpen or replace it if necessary. You can select different kinds of bits as required (Fig.17, Fig.19), and the length of the bit is within 1m.



The removable impact bit (b, Fig.17), the nonremovable blade (d, Fig.17), the stainless steel blade of the ice bit (h, Fig.19) and the drill tip (g, Fig.19), can be bought from the manufacturer.



Check and repair the blade (e, f, Fig.18) regularly. Or contact the dealer to replace.

TRUBLESHOOTING GUIDE

1) Starting Failure

Trouble	Causes	Remedies
Spark plug (no spark)	1. Spark plug is fouled/wet	Clean and dry
	2. Carbon deposit in the spark plug	Clean
	3. The plug gap is too big or too small	Adjust gap at 0.6-0.7mm
	4. The electrode burned	Replace
	5. The insulation damaged	Replace
Magneto	1. wire damaged or broken	Tighten or replace
	2. The insulation of coil is bad	Replace
	3. The gap between stator and rotor is too big	Adjust gap at 0.4mm
The sparking plug works normal	1. The fuel sucked in excess	Reduce the fuel
	2. Fuel is bad /dirty or mixed with water	Replace
Compression is fine and fuelling normally	Cylinder and piston ring worn	Replace
	1. No fuel in the tank	Fill the tank
	2. Fuel cock is not open	Open it
The spark plug works normal	3. The valve of the fuel tank cap clogged	Clean it
	Carburetor no fueling	Check and replace

2) Lack of Power

Trouble	Causes	Remedies
The compression is fine and has spark	1. The fuel tube suck in air	Tighten it
	2. The connection of carburetor suck in air	Change the gasket or tighten it
	3. The fuel mixed with water	Change the fuel
	4. The filter plate clogged	Clean
	5. The carbon clogs muffler, cylinder	Clean
Engine overheats	1. Fuel is too thin	Adjust the carburetor
	2. Cylinder covered with carbon	Clean
Engine noisy or knocking	1. Bad Fuel	Replace
	2. Combustion chamber covered with carbon	Clean
	3. The running parts worn	Check and replace

Check and repair the blade (c.f. Fig. 18) regularly. Or contact the dealer to replace.

3) Engine stops while running

Trouble	Cause	Remedies
Engine stops suddenly	1. The piston jam	Repair or replace
	2. Carbon deposit in the spark plug and short circuited	Clean
	3. Magneto damaged	Replace or repair
The engine stops slowly	1. Lack of fuel	Fill the tank
	2. Carburetor clogged	Clean
	3. Water in fuel	Refill with fresh fuel

4) Engine hard to stop

Trouble	Cause	Remedies
Engine hard to stop	Cylinder and piston overheats conducts to self ignition	Clean carbon
	1. Plug pole overheats	Clean the plug and check the gap
Correlative circuit	2. Stop button is bad	Check and remedy

5) Other

Trouble	Cause	Remedies
Engine works but bit not turn	1. Clutch damaged	Replace
	2. Interference fit failure between gear shaft and output shaft	Replace the relative part
Knocking sound in gearbox	1. Gear worn	Replace the relative part
	2. Bad lubrication	Clean and grease
	3. Impurity in the gearbox oil	Clean and grease

Important— Maintenance procedures that are not reported in this manual must only be carried out by authorized service personnel. Only use ORIGINAL SPARE

PART. Use the correct torque to tighten the screws and bolts. Refer to the torque specifications in the manual.

Check and repair the blade (c.f. Fig. 18) regularly. Or contact the dealer to replace.

3) Engine stops while running

WARRANTY

Limited warranty

The manufacturer, acting through the sales and technical assistance network, shall replace free of charge any parts proven defective in material, machining or manufacturing. The warranty does not affect the purchaser's right as established under legislation governing the consequences of defects in the machine.

The warranty period starts on the date of purchase.

To make any claim under the warranty, this certificate of warranty, fully completed, bearing the dealer's stamp, and accompanied by the invoice or receipt showing the date of purchase, must be displayed to the personnel authorised to approve work.

The warranty shall be null and void if:

1. the machine has evidently not been serviced correctly.
2. the machine has been used for improper purposes or has been modified in any way.

3. unsuitable lubricants and fuels have been used.

4. non-original spare parts and accessories have been fitted.

5. work has been done on the machine by unauthorized personnel.

6. parts subject to normal wear

7. damage incurred during transport must be immediately brought to the attention of the carrier; the warranty shall be null and void if failure to do so.

8. having no invoice, warranty certificate or the part number on the warranty certificate does not conform to the real object.

When your unit breaks down, please consult with dealer or contact with our company directly. We will give you the best service.