ASPERO®

BACKPACK BRUSH CUTTER

MANUAL

MODEL:

BG330

BG430

BG520

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		BG330	BG430	BG520
Main unit	Remote type	Automatic centrifugal clutch; Spiral bevel gear; Flexible shaft		
	Maximum speed of gear shaft /engine speed (r/min)	7000/9000		
	Idle speed(r/min)	3000±150		
	Vibration values at each handle(m/s)^2	≤7.5		
	Sound pressure values[dB(A)]	≤105		
	Sound power values[dB(A)]	≤120		
	Reduction ratio	17: 22		
	Blade rotation direction	Counter-Clockwise(seen from the top)		
	Type of handle	"D" grip		
	Weight when dry(kg)	10	10.6	10.6
Engine	Name of engine	1E36F-2	1E40F-5	1E44F-2
	Type	Air-cooled; 2 cycle; vertical piston valve; gasoline engine		
	Displacement(mL)	32.6	42.7	51.7
	Maximum output(kW/r/min)	0.9/6500	1.25/6500	1.44/6500
	Carburetor	Float-type		
	Ignition	Non-contact electronic ignition		
	Method of starting	Recoil type		
	Fuel used	Gasoline mixed with lubricating oil (ratio of 25:1)		
	Fuel tank capacity(L)	1.2		
	Dry weight(kg)	4.2		
Length of main pipe section(mm)		1190		
Length of drive shaft section(mm)		1224		

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 filling tank.
- Do not fill fuel in an enclosed room or near open flames. Assure adequate ventilatio
- Always 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.

- 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.

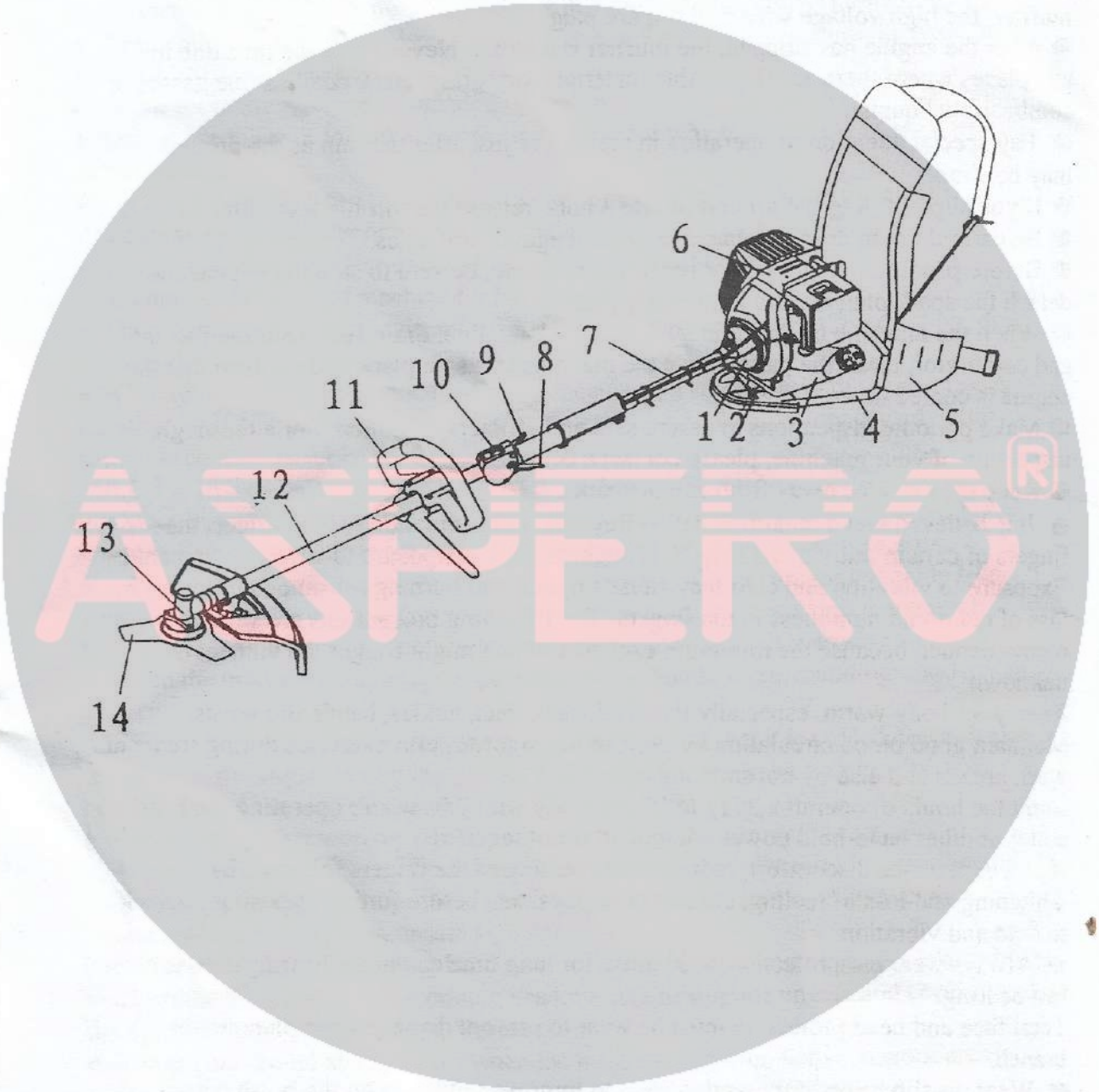
● Always wear ear protection, loud noise for long time can make hearing debase even lost hearing.

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



DESCRIPTION

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

1.CLUTCH CASE

2.ENGINE BASE ASS'Y

3. FUEL TANK Contains fuel and fuel filter.

4.SHOULDER FRAME HOLDER ASS'Y

5.SHOULDER BELT ASS'Y

6.GASOLINE ENGINE

7.FLEXIBLE SHAFT ASS'Y

8.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.

9. SAFETY LEVER Before acceleration, compress it please.

10. IGNITION SWITCH "slide switch" mounted on top of the Throttle Trigger Housing.Move switch FORWARD to Run, BACK to STOP.

11. D-HANDLE this handle can be adjusted at you convenience for comfort.

12. DRIVE SHAFT ASSEMBLY Contains a specially designed liner flexible drive shaft

13.GEAR CASE

14.BLADE Circular blade for grass,weed or brush cutting applications. Harness, metal shield and U-Handles required for blade operation.

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.

16.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.

17.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.

1. ASSEMBLING PROCEDURES

BG435 is composed of three major units; engine, flexible shaft and drive shaft.

1. Assembling drive shaft(Fig. 1)

Insert the flexible shaft into the joint pipe of Drive Shaft to the end and tighten the joint pipe bolt by engaging the bolt to the slot of flexible shaft.

NOTE: **Make sure to align square end of flexible inner shaft with square hole of drive shaft by slightly rotating drive shaft. so that they are connected firmly.**

2. Assembling flexible shaft(Fig. 2)

Remove temporarily installed PIN . Insert flexible shaft into clutch case to the end by inserting square end of flexible inner shaft into square hole of adaptor in Clutch Case. Then screw-in the PIN by engaging the pin the slot of flexible shaft.

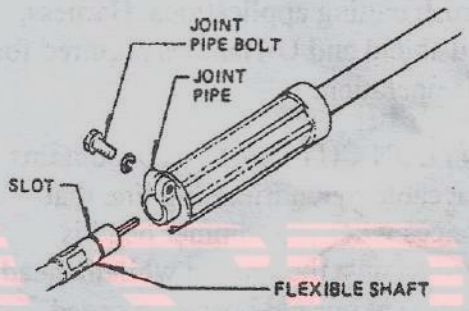


Fig. 1

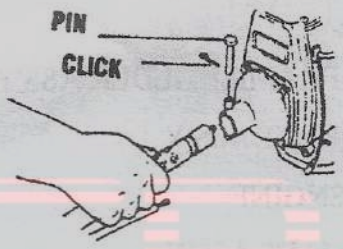


Fig. 2

3. Throttle cable and stop cord

Put throttle cable and stop cord through cable passage of shaft grip, then connect each terminal with each proper position respectively. (Fig. 3)

Finally, clamp those connected throttle cable and stop cord together to flexble shaft with two wire clamp bands provided. (Fig. 4)

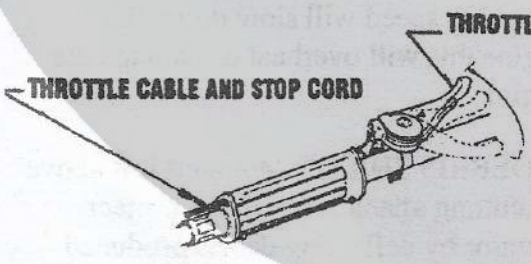


Fig. 3

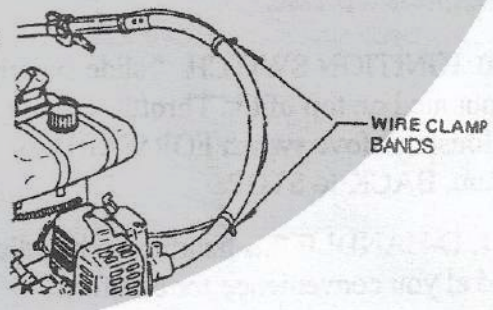


Fig. 4

4. Haldle (Fig.5)

Remove the handle bracket A.

Set the handle on, and attach the handle bracket A with two bolts slightly. And adjust position of the handle according to your working style. Then fix it firmly with the bolts.

5. Safety cover (Fig.6)

1) Install the safety cover on the shaft with the safety cover bracket and the screws provided.
2) Tighten the screws after setting the safety cover bracket at the appropriate position.

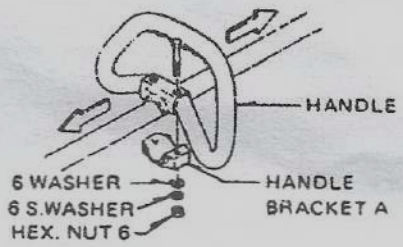


Fig.5

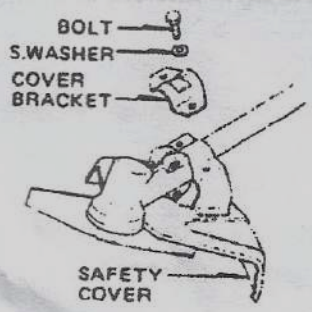


Fig.6

6. Blade

1) When installing a steel blade, fit the blade as shown in the fig.7
2) When installing or removing a blade, lock cutter holder with lock handle to tighten or to untighten as shown in Fig.8

NOTE: As the blade fixing bolt is left threaded, turn it counter-clockwise and take a special care not to hurt your fingers by the blade. Be sure to check if it has been fitted correctly.

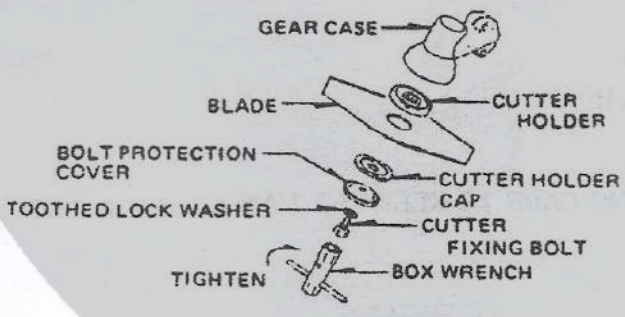


Fig.7

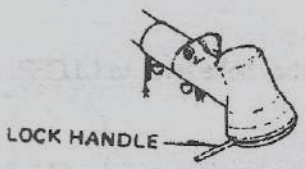


Fig.8

2. OPERATING PROCEDURES

Adjust shoulder belt length as you feel appropriate before starting engine.

1. Filling the fuel

1) This engine is 4 stroke, no needs to mix fuel and oil. It is better to use good quality four-cycle oil in the oil tank

CAUTION: THE OIL IN THE OIL TANK SHOULD BELOW THE SCALE FROM THE CAP.

2) Be sure to check bolts and other fasteners to see if any of them have become loose or missing.

2. Starting

1) Open the fuel cock.

2) Move the throttle lever to start position or about 1/4 full throttle, in case of metal lever. (Fig. 9)

NOTE: Staring with full throttle causes sudden high revolution of Blade, which is dangerous, so please avoid it.

3) Set the choke lever to CLOSE. (Fig. 10)

4) Pull the recoil starter briskly, TAKING CARE TO KEEP THE HANDLE in your grasp, while not allowing it to snap back.

5) When you hear combustible sounds a couple of times, move the choke lever back to as it is (open position). Then pull the recoil starter briskly.

6) After starting the engine, allow it about 2~3 minutes to warm up before subjecting it to any load.

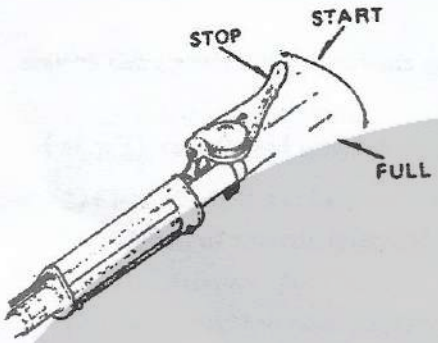


Fig. 9

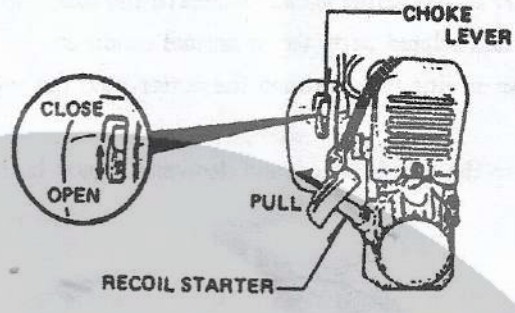


Fig. 10

CAUTION: Blade may turn and flexible shaft may swing as engine starts. Do not let the blade touch any object when engine starts.

* Adjustment (Fig. 13)

When the idle speed is too high or too low, adjust it with the idle speed adjusting screw.

In case that the blade keeps turning at the idling speed, turn the idle adjusting screw counterclockwise.

3. How to carry (Fig. 14)

1) First, hold the handle with your left hand and bend yourself down. Slip your right arm into the right belt.

2) Transfer the shaft to your right hand and reaching back, slip the left arm through the other belt.

3) When the engine unit is mounted on your back, grip the shaft as shown in the figure.

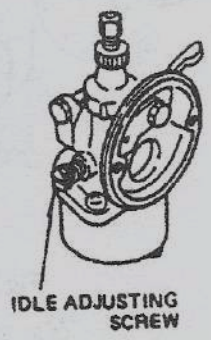


Fig. 11

Fig. 12

4. Cutting

1) The blade turns counterclockwise, therefore be advised to operate the cutter from right to leftward for efficient cutting.

2) When working on a slope, the blade should allow the contour from top to bottom, with the operator looking down to the left.

3) Keep the onlookers out of the working area at least 7~8m(30ft). (Fig. 13)

4) Special care

If the cutter should strike against stones or the like, stop the engine and cutter and make sure that the cutter and related parts are in normal condition.

When grass or vine twines round the cutter, stop the engine and blade and remove grass or vine.

5. Stopping

1) Decrease the engine speed, and depress the stop button until engine has stopped. (Fig. 14)

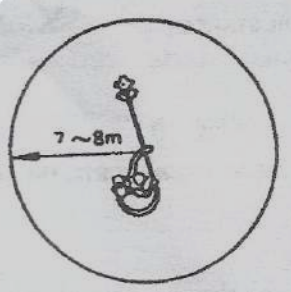


Fig. 13

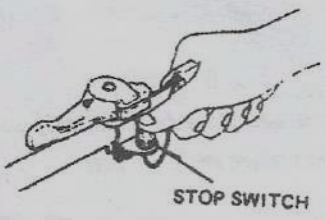


Fig. 14

3. MAINTENANCE

1. Periodical check

1) Cleaning

1-1 Clean the cleaner element. (Fig. 15)

1-2 Scrape off the carbon from the spark plug gap (standard gap is 0.6mm or 0.023in.). (Fig. 16)

1-3 Clean the cylinder exhaust port and muffler.

Remove the grasses or dusts entered in the cylinder cover or fan case cover (otherhwise they may cause a trouble such as an overheating)

2) Inspect carefully for any fuel or oil leaks.

3) Check all nuts, bolts, screws, etc., making sure they are tightened and secured as they should be.

4) Lubricate Gear Case, every 50 hours of use.

5) When lubricating flexible shaft, apply grease in the flexible pipe of clutch case side. (It is recommended to apply grease after every 10 hours of use.)

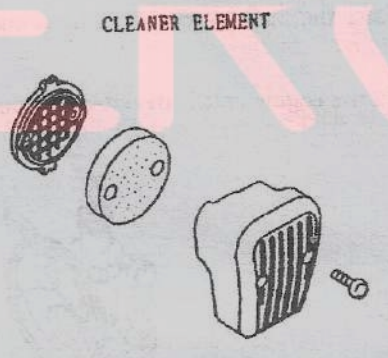


Fig. 15

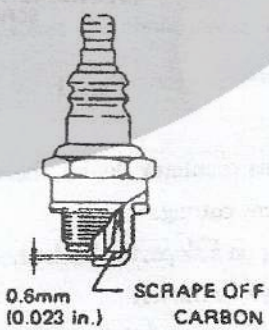


Fig. 16

2. Storage

1) Completely drain the fuel out of the tank and the carburetor.
2) Keep the engine always to be highter than gear box part.
3) Clean the unit carefully and keep it from moisture.

Installation of throttle lever and stop switch (Fig. 17 and Fig. 3)

Before installation, put throttle, cable and stop cord through cable passage of the shaft grip.

1) The throttle lever and stop switch are temperially assembled together, so they should be disassembled first.
2) Put the round head of throttle cable and throttle cable together into the handle channel.
3) Fix the throttle lever on the hard shaft.
4) Finally, fix the stop switch on the throttle lever with a screw.

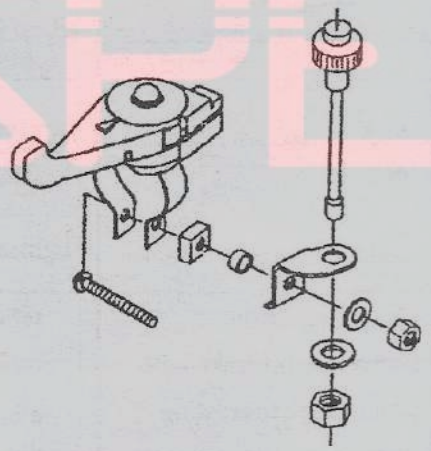


Fig. 17

TROUBLESHOOTING GUIDE

1.FAILURE TO START

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

TROUBLESHOOTING GUIDE

2.LOW OUTPUT

symptom	probable cause	remedy
flameout when speedup	fuel filter obstruct, fall short of fuel	clean fuel filter、clean fuel road、 adjust carburetor
the smoke is thin, carburetor spout backward	muffler fouled with oily deposits	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
	engine overheats	avoid use it for long time 、 high speed and heavy load
	burning room fouled with oily deposits	clean the oily deposits

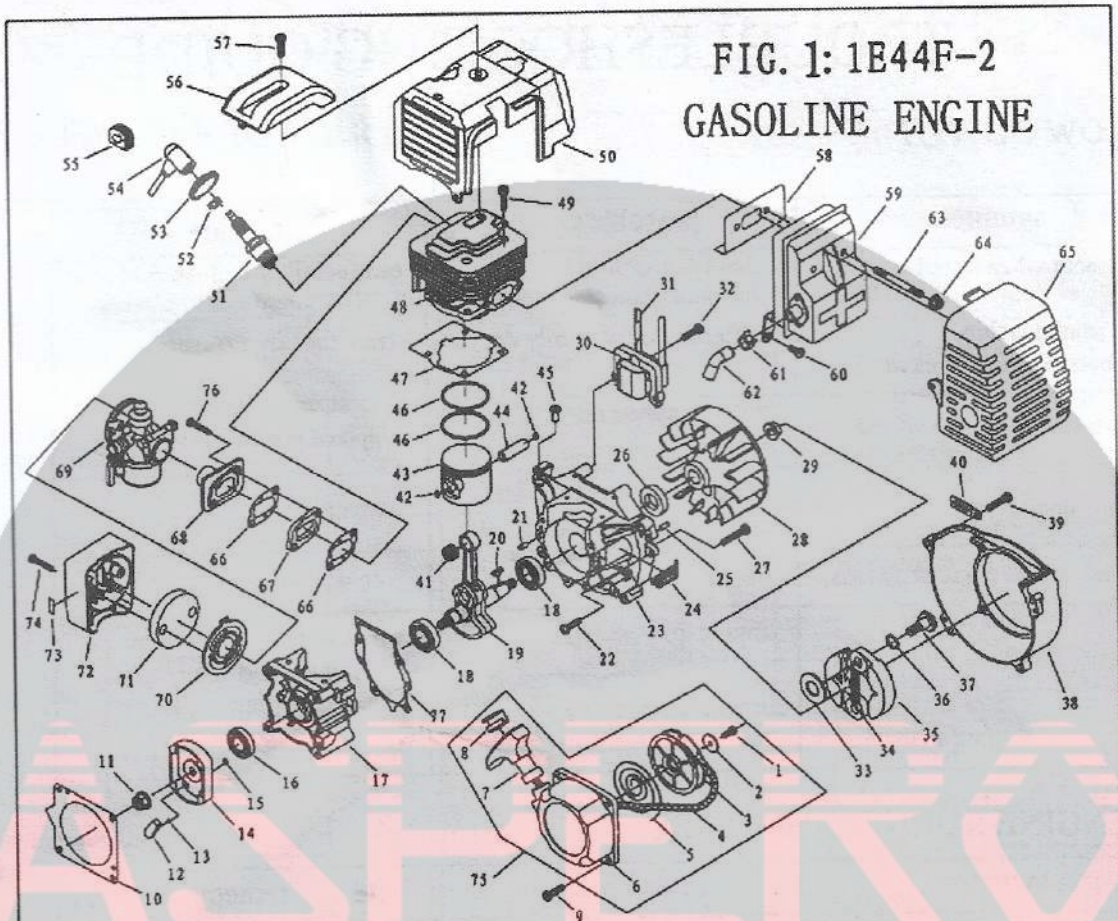
3.ENGINE RUNNING UNSTABLE

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

4.THE ENGINE SUDDENLY STOPPED

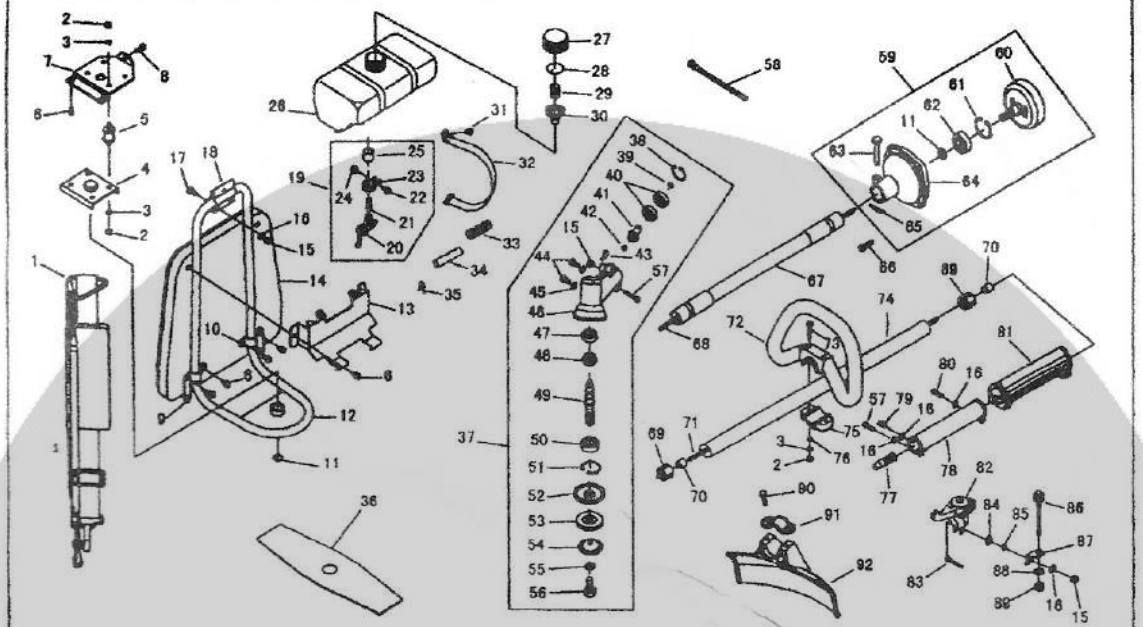
probable cause	remedy
fuel is use up	add fuel
spark plug fouled with oily deposits and short circuit	clean the oily deposits
high voltage wire fall off	connect

FIG. 1: 1E44F-2 GASOLINE ENGINE



NO.	PART NO.	PART NAME	QTY.	NO.	PART NO.	PART NAME	QTY.	NO.	PART NO.	PART NAME	QTY.
1	GB/T67	Screw M5×12	1	27	GB/T9074.4	Screw M5×30	4	53		Rubber Cover	1
2	1E40F-5.11-2	Washer	1	28		Fly wheel	1	54		Cap	1
3	1E40F-5.11-1	Starting Pulley	1	29	GB/T6177.1	Nut M8	1	55	1E40F-5.3-1	Cord Clamp	1
4		Pulling Rope	1	30		Coil	1	56	1E40F-5-8	Bracket	1
5	1E40FP-3Z.4-7	Plain Spring	1	31	1E40F-5.3.1	Stop Cord Ass'y	1	57	GB/T9074.4	Screw	1
6	1E40F-5.11.1	Starter Cover Ass'y	1	32	GB/T9074.13	Bolt M5×20	2	58	1E40F-5-5	Muffler Gasket	1
7	1E40FP-3Z.4-2	Knob	1	33	1E36F-3	Washer	1	59	1E40F-5.2	Muffler Ass'y	1
8	1E40FP-3Z.4-10	pipe	1	34	1E40F-5.6-1	Pulling Spring	2	60	GB/T9074.4	Screw	1
9	GB/T9074.4	Screw M5×20	4	35	1E40F-5.6.1	Expander	2	61	1E40F-5.10-2	Circlip	1
10	1E40F-5-10	washer	1	36	1E40F-5-11	Washer	2	62	1E40F-5.10-1	Gas Outlet	1
11	GB/T6170	Nut M8	1	37	1E40F-5-12	Bolt	2	63	1E40F-5-13	Bolt	2
12	1E46FP.4-2	Starter Wheel	1	38	1E40F-5-9	Magneto Cover	1	64	GB/T6177.1	Nut M6	2
13	1E36F.1.2-2	Spring	1	39	GB/T9074.13	Bolt M5×25	4	65	1E40F-5-7	Muffler Ass'y	1
14	1E40F-5.7-1	Ratchat	1	40	1E40F-3A.9	Clip	1	66	1E40F-5-2	Gasket	2
15	GB/T896	Circlip for Shaft 4	1	41	1E44F-2A.2-3	Bearing	1	67	1E40F-5-3	Gasket	1
16	1E36F.2	Seal	1	42	1E40F-03.02.01	Ring	2	68	1E40F-5-1	Admitting Pipe	1
17	1E40F-5.8-2	Crank Cass	1	43	1E44F-2A.2-1	Piston	1	69	1E40F-5.1	Carburetor	1
18	GB/T276	Bearing 6202/P5	2	44	1E44F-2A.2-2	Piston Pin	1	70	1E40F-3A.T2-2	Cleaner Fixing Base	1
19	1E44F-2A.2.1	Crank Shaft	1	45	GB/T9074.4	Screw M5×12	1	71	1E36F.16-2	Filter	1
20	GB/T1099	Key 3×13	1	46	1E44F-2A.2-4	Piston Ring	2	72	1E40F-3A.T2-1	Cleaner	1
21	GB/T119	Pin B5×12	2	47	1E40F-5-6	Washer	1	73	1E40F-3A.3-5	Throttle Switch Mark	1
22	GB/T9074.4	Screw M5×12	1	48	1E44F-2A-1	Cylinder	1	74	GB/T9074.4	Screw M4×25	2
23	1E40F-5.8-1	Crank Cass	1	49	GB/T70.1	Screw M5×20	4	75	1E40F-5.11	Starter	1
24	1E40F-5.8-3	Cover	1	50	1E40F-5.5	Cylinder Shroud	1	76	GB/T9074.4	Screw M5×25	2
25	GB/T119	Pin B4×10	2	51	L6 (LD)	Spark Plug	1	77	1E40F-5.8-4	Gasket	1
26	1E40F-5.9	Seal	1	52		Spring	1				

FIG. 2: BACK PACK BRUSH CUTTER



NO.	PART NO.	PART NAME	QTY	NO.	PART NO.	PART NAME	QTY	NO.	PART NO.	PART NAME	QTY
1	BG305.8	SHOULDER BELT ASS'S	1	32	BG-328-5	FUEL TANK BAND	2	63	BG-328.8-2	PIN	1
2	GB/T6170	NUT M6	10	33	BG-328-7	FUEL PIPE PROTECTION COIL	1	64	BG-328.8-1	CLUTCH CASE	1
3	GB/T93	S.WASHER 6	10	34	BG-328-8	FUEL PIPE	1	65	3WF-2.6A-2	CLICK	1
4	BG328.2.2	ENGINE BASE COMP.	1	35	BG-328-3	FUEL PIPE CLIP	2	66	GB/T9074.13	BOLT M6×20	4
5	BG415.4	CUSHION RUBBER COMP.	4	36	BG-328-10	BLADE	1	67	BG-328.1.2	FLEXIBLE LINER COMP.	1
6	GB/T9074.4	SCREW M5×12	8	37	BG-328.9.5	GEAR CASE ASS'S	1	68	BG-328.1.1	FLEXIBLE SHAFT COMP.	1
7	BG-328.2-1	ENGINE BASE B	1	38	GB/T893.2	STOP RING 26	1	69	BG-328.9.4-5	BUSHING ASS'S	5
8	GB/T9074.4	SCREW M6×12	1	39	GB/T894.1	STOP RING 10	1	70	BG-328.9.4-4	BUSHING ASS'S	5
9	BG-328-1	SHOULDER PLATE HOLDER A	1	40	GB/T276	BEARING 6000-2RS/P6	2	71	BG-328.9.4-2	DRIVE SHAFT	1
10	BG-328-2	SHOULDER PLATE HOLDER B	1	41	CG305F.1-2	PINION	1	72	BG-328.10-1	HANDLE	1
11	GB/T894.1	STOP RING 15	2	42	CG415.3-1	STEEL PLATE CAP	1	73	GB/T5783	BOLT M6×45	2
12	BG-328.3	SHOULDER FRAME COMP.	1	43	CG415D.6-1	GEAR CASE WASHER	2	74	BG-328.9.4-3	ALUMINIUM PIPE	1
13	BG-328.5	TANK HOLDING METAL COMP.	1	44	GB/T29.2	BOLT M6×12	2	75	BG-328.10-2	HANDLE BRACKET A	1
14	BG-328.6	SHOULDER PLATE COMP.	1	45	BG-328.9.5-1	OILING GASKET	2	76	GB/T97.1	S.WASHER 6	2
15	GB/T6170	NUT M5	6	46	BG-328.9.5-6	GEAR CASE	1	77	BG-328.9.4-1	ADAPTOR COMP.	1
16	GB/T93	S.WASHER 5	7	47	GB/T276	BEARING 6000/P6	1	78	BG-328.9.2-2	JOINT PIPE	1
17	GB/T29.2	BOLT M5×16	3	48	BG-328.9.5-2	GEAR	1	79	GB/T70.1	SCREW M5×10	1
18	BG-328-6	LIFTING METAL	1	49	BG-328.9.5-3	GEAR SHAFT	1	80	GB/T70.1	SCREW M5×25	1
19	BG-328.4	PETCOCK ASS'S	1	50	GB/T276	BEARING 6002-2RS/P6	1	81	BG-328.9.2-1	GRIP	1
20	BG-328.4.1	PETCOCK	1	51	GB/T893.2	STOP RING 32	1	82	BG-328.9.3	THROTTLE LEVER ASS'S	1
21		FILTER NET	1	52	BG-328.9.5-7	CUTTER HOLDER	1	83	GB/T818	BOLT M5×25	1
22	GB/T65	SCREW M4×12	1	53	BG-328.9.5-8	CUTTER HOLDER CAP	1	84	GB/T39	NUT M5	1
23		CLIP	1	54	BG-328.9.5-9	BOLT PROTECTION COVER	1	85	BG-328.9-1	BUSHING	1
24	GB/T39	NUT M4	1	55	GB/T862.1	S.WASHER 8	1	86	BG-328.9.1	STOP BUTTON COMP.	1
25		SHIELD TUBE	1	56	BG-328.9.5-10	BOLT	1	87	BG-328.9-2	STOP BUTTON BRACKET	1
26	BG-328.7-1	FUEL TANK	1	57	GB/T70.1	SCREW M5×20	3	88	GB/T7244	S.WASHER 8	1
27	BG-328.7-2	TANK LID	1	58	BG415-1	WIRE CLAMP BAND	2	89	GB/T6172	NUT M8	1
28	BG-328.7-3	SPACER	1	59	BG-328.8	CLUTCH COMP.	1	90	GB/T9074.13	BOLT M6×25	2
29	BG-328.7-4	FILTER CORE	1	60	BG-328.8.1	CLUTCH DRUM COMP.	1	91	BG305.13-1	SAFETY GUARD BRACKET	1
30	BG-328.7-5	INNER LID	1	61	GB/T893.1	STOP RING 35	1	92	BG305.13.1	SAFETY GUARD	1
31	GB/T9074.4	SCREW M5×20	2	62	GB/T276	BEARING 6202-2RS/P6	1				

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