



**INSTRUCTIONS FOR PETROL BACKPACK MULTI-FUNCTION SYSTEM
FEATURING BE003/KM0408436-A 42.7CC/1.25KW AIR COOLED 2-STROKE ENGINE
AND BACKPACK, AND ACCESSORIES BE004 CHAINSAW, BEO05 HEDGE TRIMMER,
BE006 BRUSH CUTTER & LINE TRIMMER SET, BE007 1M EXTENSION POLE, BE008
TILLER.**



Tested and certified to conform with the latest EU11 Emissions Directives

Please keep these instructions in a safe place for future reference



**Any questions or problems ? Call the Eckman Helpline on 0845
555 4440 or visit www.eckman.co.uk**

General Safety Rules

This power unit and accessories can be dangerous!

When using the unit and accessories, follow basic safety precautions including the following which should always be followed to reduce the risk of serious personal injury and damage to the unit.

Read all these instructions before operating this product and save these instructions. Be thoroughly familiar with the controls and the proper use of the unit. Never allow children to operate this unit.



WARNING

Keep children, bystanders, and animals 50 feet (15 meters) away. If approached stop the unit immediately.



WARNING

Sound Power level whilst machinery is in operation 110dB
Please use ear defenders.

1. Wear close-fitting clothes. Wear work clothes that will provide protection such as long slacks or trousers, safety work shoes, heavy duty work gloves, hard hat, a safety face shield or safety glasses for eye protection and a good grade of ear plugs or other sound barriers for hearing protection.
2. Run the unit in a safe place. Open fuel cap slowly to release any pressure which may have formed in fuel tank. To prevent a fire hazard, move at least 10 feet (3 metres) from fuel area before starting.
3. Compliance with local fire prevention regulations is the user's responsibility.
4. Do not run engine in badly-ventilated areas. There is a danger of poisoning by carbon monoxide exhaust gas.
5. Turn unit off before setting down. Stop engine while transporting the machine.
6. Keep handles dry, clean and free of fuel mixture.
7. Always hold unit firmly using the handles and harness fitted to the machine.
8. Check all screws and fasteners are tightened before use. Never operate the equipment when it is not completely and securely assembled.

Safety Definitions

Read and understand all safety messages.



DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



Warning



Read the instruction manual



Wear eye protection, ear defenders and helmet



Wear foot protection



Wear gloves



Beware of foot injury by cutting attachment.



Beware of thrown objects hit by cutting attachment

Never use without properly mounted blade guard.



Keep 15 meters away from any other person.

3. Inflammable label



"Inflammable" label (positioning on the petrol tank as in picture)

Warning label (positioning on the guard on the proper space as in picture)



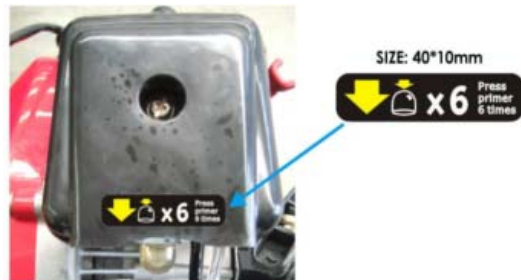
7. Choke label



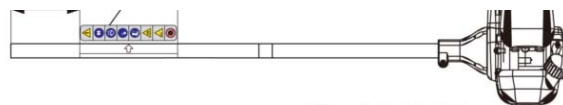
4. Hot surface label



Hot surface label (positioning on silencer cover as in picture)



ABOVE REFERS TO CULTIVATOR ATTACHMENT ONLY



ENGINE ILLUSTRATED DIFFERENT FROM THAT SUPPLIED

BEFORE YOU START:

This equipment is designed for domestic use only and may only be used within the parameters and guidelines of these instructions. Usage outside these parameters will render your guarantee and any claims against the manufacturer void.



Model KM0408436 42.7cc / 1.25kw
Type Approval No: e11*97/68SA*2004/26*1345*00
Manufactured In Compliance with ISO 9001:2008
Imported by T2 Direct Ltd – London
Serial Number:14501-436-001



FUEL: 2-STROKE OIL MIX 25 PARTS:1 PART

FUEL TANK CAPACITY: 0.7L

IDEL SPEED: 2700RPM APPROX

MAX. POWER SPEED: 7000RPM

CARBURETOR: DIAPHRAGM TYPE

SPARK PLUG: RCJ6Y

TRANSMISSION: CENTRIFUGAL CLUTCH, SPUR GEAR, CAM-CRANK

WEIGHT: APPROX. 7KG

**FLEXIBLE DRIVE SHAFT, HANDLE WITH CONTROLS & SECONDARY HANDLE SUPPLIED
BASIC TOOLS SUPPLIED
ENGINE SUPPLIED MOUNTED ONTO SHOCK-ABSORBED FULLY PADDED AND ADJUSTABLE
BACK PACK WITH ZIP POUCH.**

CONNECTING FLEXIBLE DRIVE SHAFT AND ACCESSORIES



BUTTON AND LOCATE INTO HOLE UNDO AS SHOWN USING TOOL SUPPLIED



LOCATE CONTROL HANDLE INTO FLEXIBLE DRIVE SHAFT



RE-TIGHTEN BOLT



LOCATE & LOCK ACCESSORIES BY FIRST RELEASING HAND-TIGHTENING KNOB, PULL RING, LOCATE IN HOLE IN ACCESSORY TUBE, RE-TIGHTEN KNOB.



READY FOR USE

GETTING GOING

Using the mixer bottle supplied, mix 25 parts unleaded petrol with 1 part 2-stroke oil. 2-stroke oil can be purchased from most petrol stations, DIY or garden hardware retailers.

carefully fill the tank and wipe away any spills with a dry cloth. Fully tighten the fuel cap.

Set the carburettor CHOKE lever to

Pump the FUEL PRIMER BULB as shown :-

COLD START as shown :-



Set the ON/OFF control on the control handle to ON. NB: Your handle will either state ON/OFF or 1 / 0. In this case 1 means ON. To turn the engine off, set to OFF / 0.

Pull the starter handle 2 or 3 times. If the engine starts, reduce the choke lever to mid-position and let the engine run for 5-10 seconds and then turn the choke lever fully down to RUN position and let it idle for around a minute before using. If your engine does not start after 2 or 3 pulls, set the choke control to mid-way position and try again. NB: Continuous attempts to start the engine with the choke fully on may flood the engine. Should this happen, take out the spark plug with the spark plug spanner provided, dry the plug with a dry rag and replace.

If you are starting the engine after recently using it (ie, the engine is still hot), DO NOT attempt to re-start the engine with the choke on.

ON NO ACCOUNT ATTEMPT TO CONNECT ACCESSORIES WHILST THE ENGINE IS RUNNING !

LET THE ENGINE IDLE FOR HALF MINUTE TO COOL BEFORE FULLY STOPPING IT.THE ROTATING FLYWHEEL WILL HELP TO COOL THE ENGINE!

A SUDDEN STOP OF A FAST RUNNING SPEED ENGINE WILL CAUSE A HEAT RISE AND COULD DAMAGE TO THE ENGINE.

SERVICING AND STORAGE

This full crank 2-stroke engine will provide years of service provided you follow a few simple rules.

FREQUENCY	MAINTENANCE REQUIRED
Every 10 hours	Clear and re-oil air filter
Every 25 hours	Check spark plug condition and gap
Every 50 hours	Inspect exhaust port

Air Filter Maintenance:

1. Remove the screw securing the air filter cover using the Phillips screwdriver end of the spark plug wrench.
2. Pull off the cover.



Fig.10

Cleaning the Air Filter

Clean and re-oil the air filter every ten hours of operation. It is a vitally important item to maintain. Remove the sponge filter from inside.

Wash the filter in detergent and water (Fig.11). Rinse the filter thoroughly. Squeeze out excess water and allow it to dry completely.

Apply enough SAE 30 oil to lightly coat the filter (Fig.12).

Squeeze the filter to spread and remove extra oil (Fig.12).

Replace the air filter and cover and securing screw.

NOTE: Operating the unit without the air filter and cover assembly will VOID the warranty.

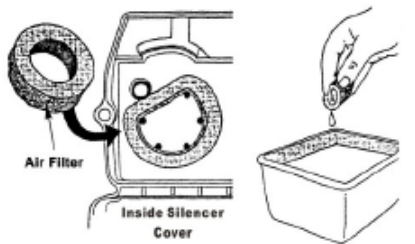


Fig.11

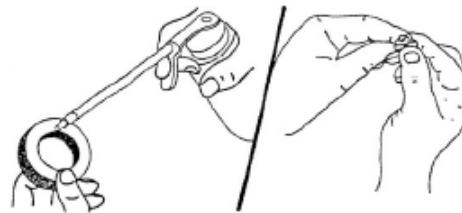


Fig.12

Engine Idle Speed Adjuster:

The adjuster is located just above and to the right of the primer bulb.

Adjusting Idle Speed:

After checking and cleaning the air filter if necessary, start the engine and let it run for 2-3 minutes to warm up.

Release the throttle lever and allow the engine to idle. If the engine cuts out (will not idle), turn the

adjuster clockwise 1/8th of a turn at a time until the engine idles smoothly.

NOTE: Tines must not be rotating on idle. If they do, turn the adjustment screw anti-clockwise a tiny amount.

Replacing the Spark Plug:

Use a champion RDJ7Y spark plug(or equivalent). The correct air gap is 0.020in.(0.5mm). Remove the plug after every 25 hours of operation to check its condition.

Stop the engine and allow it to cool. Grasp the plug cap firmly and pull the cap from the spark plug
Clean dirt from around the spark plug. Remove the Spark plug from the cylinder head by turning a 5/8" socket (supplied) counterclockwise.

Set the gap at 0.020 in.(0.5mm)using a feeler gauge.

Clean and replace the sparkplug finger-tight and take care not to cross the thread in the cylinder head. Tighten using the wrench taking care not to over-tighten.

On no account allow dirt to enter the cylinder when the spark plug is removed. We suggest filling the plughole using a small piece of clean rag. Do not use tissue as this may tear and enter the cylinder.

Storage:

Allow the engine to cool before storing. Store in a well ventilated and dry area out of the reach of children.

Long Term Storage:

Drain any fuel left in the tank into a container and dispose of considering local bylaws.

Start and run the engine until it stalls. This ensures all fuel has been used from the carburetor.

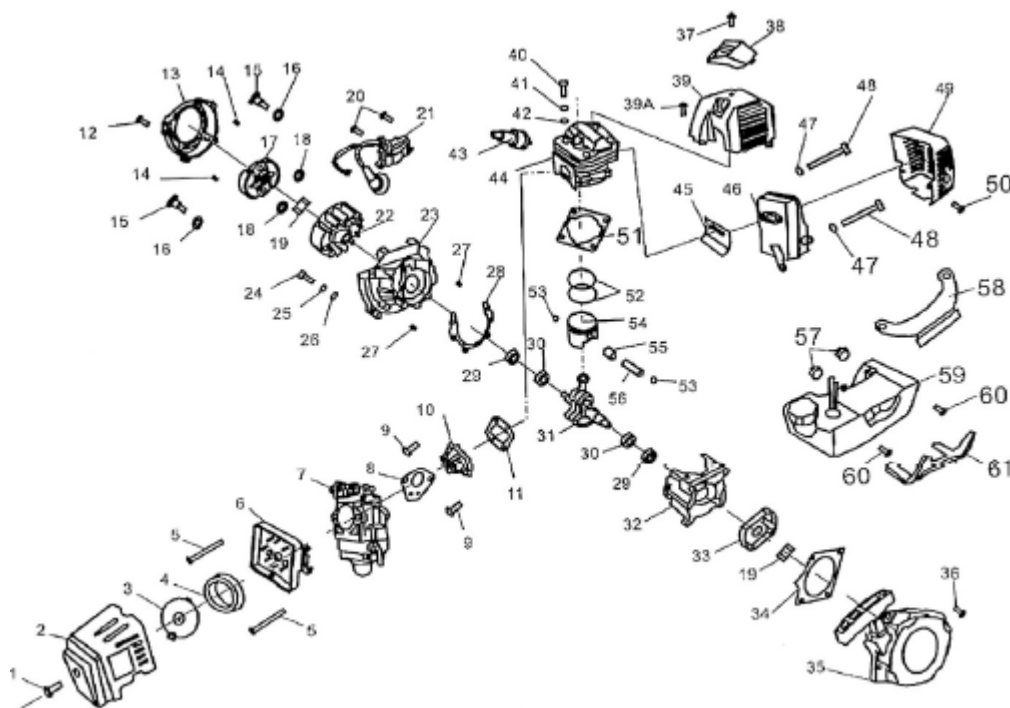
Allow the engine to cool and remove the spark plug.

Put 30ml of high quality motor oil into the cylinder. Slowly pull the starter to distribute the oil.

Re-install the spark plug.

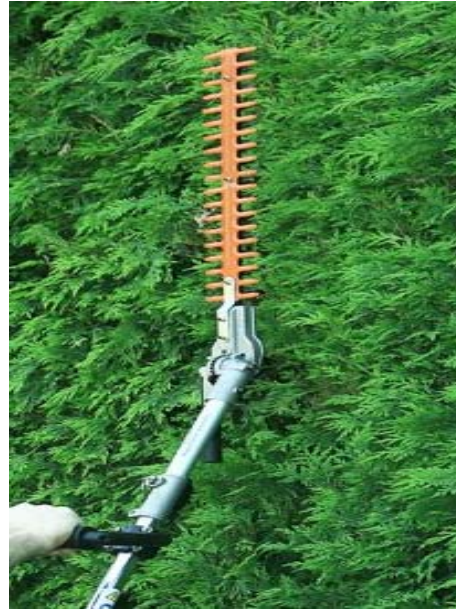
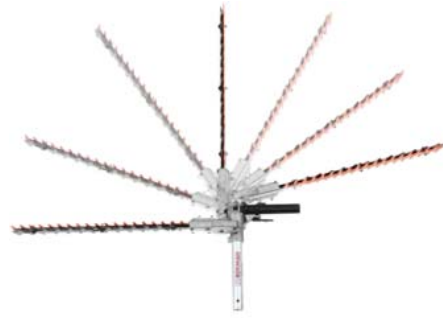
NOTE:

When re-starting after prolonged storage, be sure to drain all the oil out from the cylinder first !



Exploded Diagram of Engine & Part list

PIC No.	SPECIFICATION	PIC No.	SPECIFICATION
1	Bolt M5x16	32	Right Crank
2	Air Filter Cover	33	Housing -Starter Assembly
3	Filter Cover	34	Starter Gasket
4	Filter	35	Starter Assembly
5	Bolt M5x55	36	Bolts M5x20
6	Air Filter Combination Assembly	37	Bolts M5x18
7	Carburetor	38	Cover
8	Carburetor Gasket	39	Cylinder cover
9	Bolt M5x25	39A	Screw Bolts M5x12
10	Boot-intake	40	Screw Bolts M5x25
11	Gasket-intake	41	Elastic washer 5
12	Bolt M5x25	42	washer 5
13	Flywheel Cover	43	Spark Plug
14	Pin Φ 5x10	44	Cylinder
15	Clutch Positioning Bolts	45	Silencer gasket
16	Gasket	46	Silencer
17	Clutch Assembly	47	Elastic washer 5
18	Clutch Gasket	48	Inner Bolts M6x55
19	Screw M8	49	Muffler Cover
20	Bolts M5x25	50	Washer 6
21	Electronic ignition	51	Cylinder Gasket
22	Flywheel	52	Piston ring
23	Left Crank	53	Piston Snap pin
24	Bolts M5x30	54	Piston
25	Elastic washer 5	55	Needle-Bearing Conrod
26	washer 5	56	Piston pin
27	Pin Φ 5x10	57	Rubber Gasket
28	Paper Gasket	58	Oil tank connect plate
29	Oil Seal Φ 12x Φ 22x7	59	Oil Tank
30	Ball-Bearing 6202	60	Bolts M5x20
31	Crank shaft Assembly	61	Oil Tank Protective Plate



SPECIFICATIONS :

Weight: Approx. 2kg

Blade: 17" reciprocating double blade with full guard and 20cm aluminium pole fitted. Max. cutting diameter of green vegetation approx. 17mm is possible but for regular use we recommend keeping to 12mm. Cutting direction is angle-adjustable through 180 degrees.

Can be used with extension pole (BE007) if required.

Keep blades sharp, clean and well oiled. Maintain grease level in gearbox after 25 hours of use.

Maintain factory adjusted gap between top and bottom blade. Check from time to time and adjust blade connecting bolts if necessary by first loosening the top lock nut, then screw in the blade bolt until snug, then loosen blade bolt half a turn.

NEVER ATTEMPT TO TRY AND REMOVE BLADE OBSTRUCTIONS WITH THE ENGINE IN OPERATION !



BE004
Pruner Saw Attachment



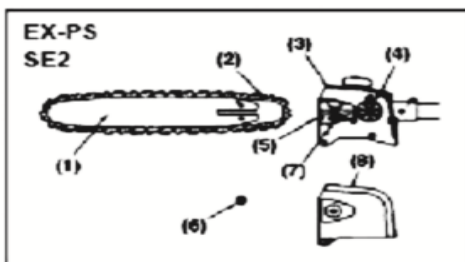
SPECIFICATIONS :

Weight: Approx. 2kg

Blade: 10" Oregon low kickback chain and bar. Automatic oil pump. 27" aluminium connection pole fitted. Can be used with extension pole (BE007) if required.

WARNING !

BE SURE TO FILL THE OIL RESERVOIR WITH THE APPROPRIATE CHAIN OIL OTHERWISE YOU WILL SEIZE AND BURN OUT THE CHAIN



1. Guide Bar / 2. Saw Chain / 3. Case / 4. Sprocket / 5. Chain tension adjuster screw / 6. Nut / 7. Chain tensioner nut / 8. Chain cover.

IMPORTANT !

The chain must neither be too tight or too loose. You must be able to lift the chain a few mm away from the bar.

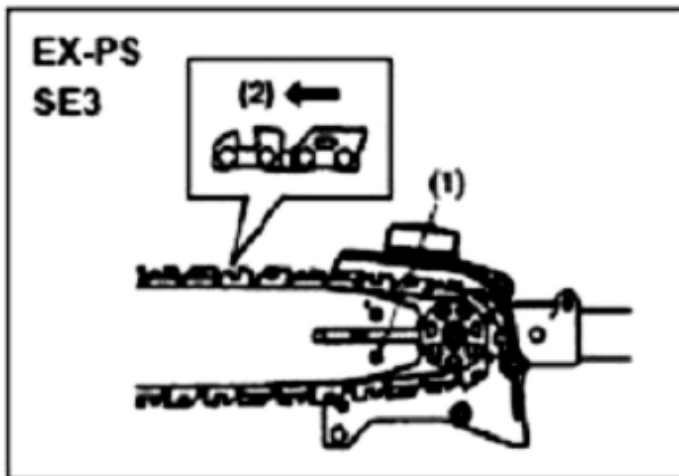
Should you need to adjust the tension, check the procedure that follows.
Should you need to change the chain, check the procedure that follows.

Install the guide bar and the saw chain on the gear case as follows

WARNING

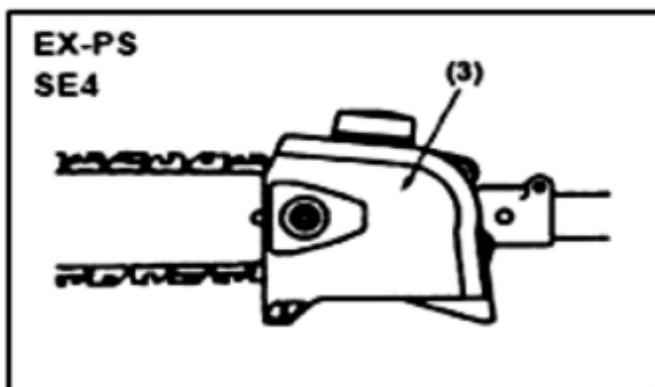
The saw chain has very sharp edges. Use protective gloves for safety.

1. Loosen the nut and remove the chain cover
2. Mount the guide bar then fit the saw chain around the bar and sprocket



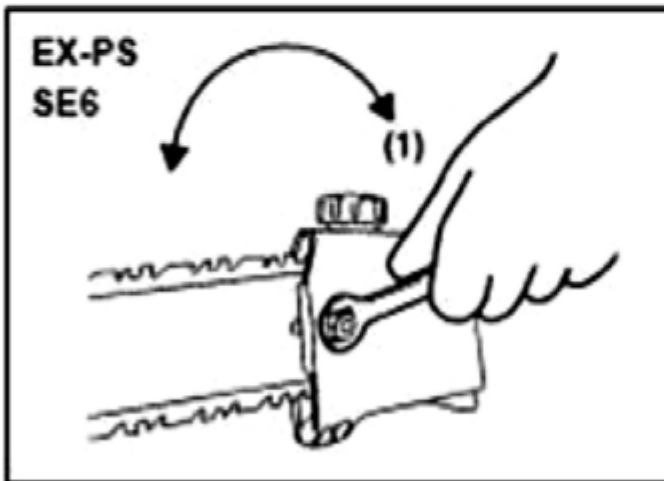
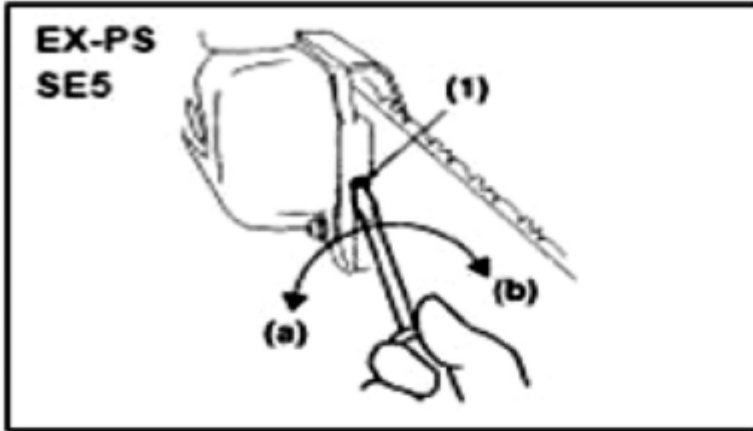
WARNING

Pay attention to the correct direction of the saw chain



3. Fit the chain tensioner unit into the lower hole of the guide bar, then install the chain cover and fasten the mounting unit to finger tightness.

- (1) Hole
 - (2) Moving direction
 - (3) chain tensioner nut
4. Adjust the chain tension by turning the tensioner screw until the chain sits comfortably and not too tightly into the chain bar.



USE A GOOD QUALITY CHAIN OIL. THIS CAN BE PURCHASED AT MOST GARDEN CENTRES AND DIY OUTLETS. CHECK OIL RESERVOIR FROM TIME TO TIME. A FULL TANK WILL PROVIDE APPROX. 20 MIN CONTINUOUS USE.

5. Tighten the mounting nut securely with the bar tip held up. Then check the chain for smooth rotation and correct tension while moving it by hand. If necessary, readjust and tighten.

WARNING

It is very important to maintain the proper chain tension. Rapid wear of the guide bar or the chain coming off easily can be caused by improper tension. Especially when using a new chain, take good care as it will expand when first used.



BE007
1m Extra Extension Pole

Can be used in conjunction with either the hedge trimmer or the chainsaw attachments.



BE006
Brush Cutter & Grass Trimmer



SPECIFICATIONS:

1 x aluminium 61cm pole supplied.

Line Trimmer:

12cm diameter double line bump feed spool. 45cm trim width.

Brush Cutter: Triple edged blade with max.10" trim width.

Fitting the guard to the brush cutter/line trimmer shaft :

Slide the chromed metal guard holder already affixed to the shaft into the recess in the plastic guard. Line up the 4 holes. Fix and tighten the 4 bolts supplied.

Attaching the brush cutter blade:



Push the bush and the blade seat onto the end of the shaft. Then put the blade onto the seat. Fit the domed cover, then the securing nut and tighten the nut anti-clockwise. If a split pin is provided, fit. To remove, first remove the split pin (if fitted), line up the 2 holes and push a screwdriver or other metal shaft through. Hold tightly and turn the nut clockwise using a wrench.

If you use the unit as a grass trimmer follow the instructions below:

1. Loosen the blade retainer nut clockwise and remove the blade retainer.
2. Fit the line cutting head on to the end of the shaft and tighten the cutting head.



NOTE: Please store the blade retainer and nut in a safe place.



BE008
Tiller Attachment



SPECIFICATIONS :

292mm tilling width. 4 X 216mm diameter tines. 60cm long aluminium coning pole supplied.

Weight 5.4kg approx.

Heavy duty gearbox.



C E R T I F I C A T E



of Conformity
EC Council Directive 2006/42/EC
Machinery

Registration No.: AM 50199350 0001

Report No.: 17703243 002

Holder: **KNK CHINA MFG. CO., LTD.**
No. 69 Kai Yuan Road
311 Nong Jiang Bei Investment
& Pioneering Park, Jiang Bei
District, Ningbo 315000
P.R. China

Product: Brush Cutter
(Back-Pack Grass Trimmer)

Identification: Type Designation : KM0408436 KM0408525
Serial No. : 2011-436001 2011-525001
Remark: Refer to test report 17703243 002 for details.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. This is to certify that the tested sample is in conformity with all provision of Annex I of Council Directive 2006/42/EC, referred to as the Machinery Directive. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex II of the Directive.

Date 22.03.2011



Certification Body

T. Fuhrmann
Dipl.-Ing. T. Fuhrmann

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. **CE**



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VCA job number: CSK216536

Date: 22 June 2010

Dear Sirs,

1. The vehicle type / component described on the attached approval(s) has been tested and meets the requirements of the ECE Regulation / EEC Directive displayed on the approval certificate(s). I enclose a set of approval documents, comprising, as appropriate, the approval certificate, test report and your documentation duly authenticated.
2. If you think there are any errors in the enclosed package, please contact Patricia Britton, telephone 0117 9524171, e-mail pat.britton@vca.gov.uk immediately. Please be aware that from the date of issue we have a three week holding period, any corrections required after this time will need to be corrected via an extension, Index revision or correction 1 certificate, as appropriate.

ROAD TRAFFIC ACT 1988 - SECTION 80

3. The Secretary of State for Transport authorises, under section 80 of the Road Traffic Act 1988, the stated manufacturer or accredited agent to apply to the motor vehicle type / part specified, the appropriate mark designated in the Motor Vehicles (Designation of Approval Marks) Regulations 1979, as amended. The conditions attached to this authorisation are set out overleaf.
4. If this approval / extension / Index revision results in a change being required to a vehicle information document issued under either a National or European Whole Vehicle approval you should notify the issuing authority to arrange for the approval(s) to be updated.
5. VCA is continually scrutinising the quality of the service it provides to customers, in order to discover more ways in which the standard can be improved. If you have a specific complaint concerning the way this job has been dealt with, our customer services leaflet gives guidance on the best approach. If you would like a copy, please contact the above.

Yours sincerely,

Operations Branch



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 Approved by the UK Government

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GUARANTEE:

This product is guaranteed for a period of 12 months from date of purchase provided it is used in accordance with the instructions. Any modification or damaged caused to any of this equipment through improper use will invalidate this guarantee.

Your statutory rights are not affected.

