

Robin

Brush Cutter

BH3500
BH3600

INSTRUCTION MANUAL

Important:

Read this instruction manual carefully before putting the Brush Cutter into operation and strictly observe the safety regulations!
Preserve instruction manual carefully!

Thank you very much for purchasing the ROBIN Brush Cutter. We are pleased to recommend to you the ROBIN Brush Cutter which is the result of a long development programme and many years of knowledge and experience.

Please read this booklet which refers in detail to the various points that will demonstrate its outstanding performance. This will assist you to obtain the best possible result from your ROBIN Brush Cutter.



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SYMBOLS

You will note the following symbols when reading the instructions manual.

	Read instruction Manual		Wear eye and ear protection (for Grass trimmer only)
	Take Particular care and Attention		Wear protective helmet, eye and ear protection (for Brush Cutter only)
	Forbidden		Do not use metal blades (for grass trimmer only)
	Keep distance		Top permissible tool speed
	Flying object hazard		Fuel (Gasoline)
	No smoking		Engine-Manual start
	No open flame		Emergency stop
	Protective gloves must be worn		First Aid
	Wear sturdy boots with nonslip soles. Steeltoed safety boots are recommended.		Recycling
	Kickback		ON/START
	Keep the area of operation clear of all		OFF/STOP

SAFETY INSTRUCTIONS

General Instructions

- To ensure correct operation, user has to read this instruction manual to make himself familiar with the handling of the brush cutter. Users insufficiently informed will risk danger to themselves as well as others due to improper handling.
- It is recommended only to lend the brush cutter to people who have proven to be experienced with brush cutters. Always hand over the instruction manual.
- First users should ask the dealer for basic instructions to familiarize oneself with the handling of an engine powered cutter.
- Children and young persons aged under 18 years must not be allowed to operate the brush cutter. Persons over the age of 16 years may however use the device for the purpose of being trained only whilst under supervision of a qualified trainer.
- Use brush cutters with the utmost care and attention.
- Operate the brush cutter only if you are in good physical condition. Perform all work calmly and carefully. The user has to accept liability for others.
- Never use the brush cutter after consumption of alcohol or drugs, or if feeling tired or ill.

Intended use of the machine

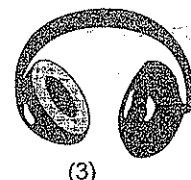
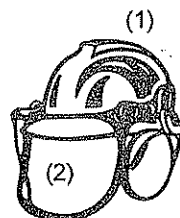
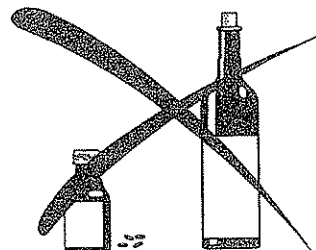
- The Brush cutter is only intended for cutting grass, weeds, Bushes, undergrowth it should not be used for any other purpose such as Edging or hedge cutting as this may cause injury.

Personal protective equipment

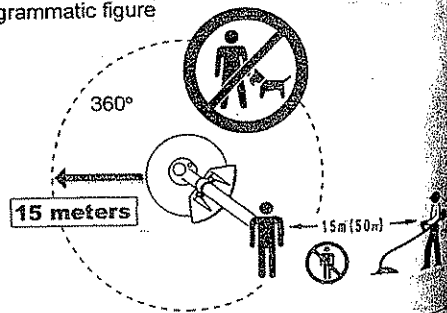
- The clothing worn should be functional and appropriate, i.e. it should be tight-fitting but not cause hindrance. Do not wear either jewelry or clothing which could become entangled with bushes or shrubs.
- In order to avoid either head-, eye-, hand- or foot injuries as well as to protect your hearing the following protective equipment and protective clothing must be used during operation of the brush cutter.
- Always wear a helmet where there is a risk of falling objects. The protective helmet (1) is to be checked at regular intervals for damage and is to be replaced at the latest after 5 years. Use only approved protective helmets.
- The visor (2) of the helmet (or alternatively goggles) protects the face from flying debris and stones. During operation of the brush cutter always wear goggles, or a visor to prevent eye injuries.
- Wear adequate noise protection equipment to avoid hearing impairment (ear muffs (3), ear plugs etc.).
- The work overalls (4) protect against flying stones and debris. We strongly recommend that the user wears work overalls.
- Special gloves (5) made of thick leather are part of the prescribed equipment and must always be worn during operation of the brush cutter.
- When using the brush cutter, always wear sturdy shoes (6) with a non-slip sole. This protects against injuries and ensures a good footing.

Starting up the brush cutter

- Please make sure that there are no children or other people within a working range of 15 meters (50ft), also pay attention to any animals in the working vicinity.
- Before use always check that the brush cutter is safe for operation: Check the security of the cutting tool, the control lever for easy action and check for proper functioning of the control lever lock.
- Rotation of the cutting tool during idling speed is not allowed. Check with your dealer for adjustment if in doubt. Check for clean and dry handles and test the function of the start/stop switch.



Diagrammatic figure



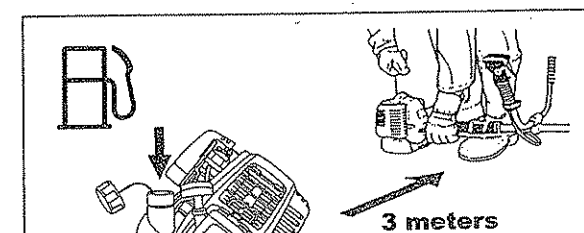
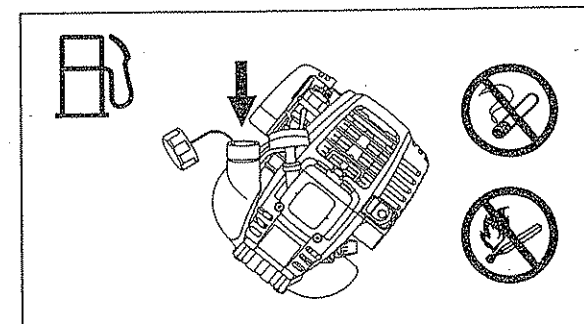
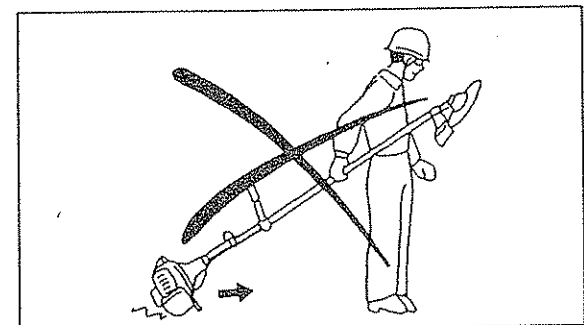
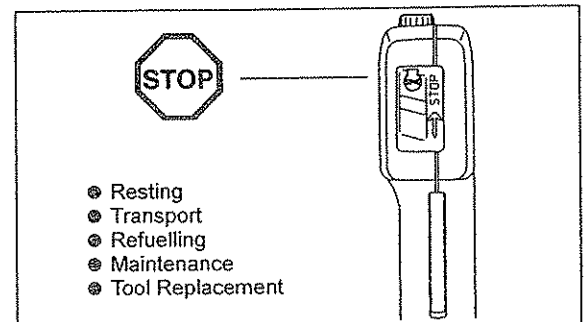
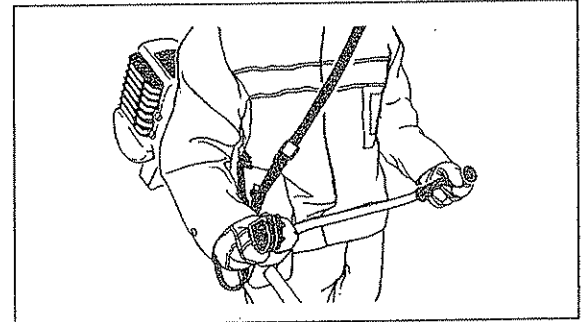
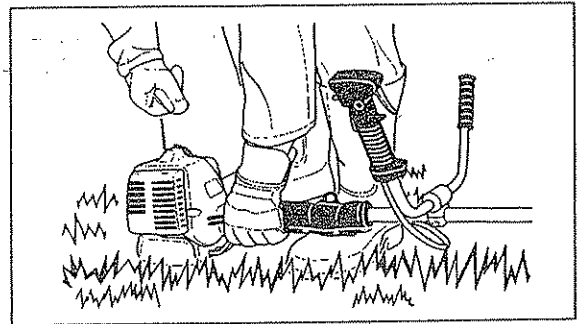
Start the brush cutter only in accordance with the instructions.

Do not use any other methods for starting the engine!

- Use the brush cutter and the tools only for such applications as specified.
- Only start the brush cutter engine, after the entire assembly is done. Operation of the device is only permitted after all the appropriate accessories are attached!
- Before starting make sure that the cutting tool has no contact with hard objects such as branches, stones etc. as the cutting tool will revolve when starting.
- The engine is to be switched off immediately in case of any engine problems.
- Should the cutting tool hit stones or other hard objects, immediately switch off the engine and inspect the cutting tool.
- Inspect the cutting tool at short regular intervals for damage (detection of hairline cracks by means of tapping-noise test).
- Operate the brush cutter only with the shoulder strap attached which is to be suitably adjusted before putting the brush cutter into operation. It is essential to adjust the shoulder strap according to the user's size to prevent fatigue occurring during use. Never hold the cutter with one hand during use.
- During operation always hold the brush cutter with both hands. Always ensure a safe footing.
- Operate the brush cutter in such a manner as to avoid inhalation of the exhaust gases. Never run the engine in enclosed rooms (risk of gas poisoning). Carbon monoxide is an odorless gas.
- Switch off the engine when resting and when leaving the brush cutter unattended, and place it in a safe location to prevent danger to others or damage to the machine.
- Never put the hot brush cutter onto dry grass or onto any combustible materials.
- The cutting tool has to be equipped with it's appropriate guard. Never run the cutter without this guard!
- All protective installations and guards supplied with the machine must be used during operation.
- Never operate the engine with faulty exhaust muffler.
- Shut off the engine during transport.
- During transport over long distances the tool protection included with the equipment must always be used.
- Ensure safe position of the brush cutter during car transportation to avoid fuel leakage.
- When dispatching the brush cutter, ensure that the fuel tank is completely empty.
- When unloading the Brush Cutter from the truck, never drop the Engine to the ground or this may severely damage the fuel tank.
- Except in case of emergency, never drop or cast the Brush Cutter to the ground or this may severely damage the Brush Cutter
- Remember to lift the entire equipment from the ground when moving the equipment. Dragging the fuel tank is highly dangerous and will cause damage and leakage of fuel, possibly causing fire.

Refuelling

- Shut off the engine during refuelling, keep away from naked flames and do not smoke.
- Avoid skin contact with mineral oil products. Do not inhale fuel vapor.
- Always wear protective gloves during refuelling... Change and clean protective clothing at regular intervals.
- Take care not to spill either fuel or oil in order to prevent soil contamination (environmental protection). Clean the brush cutter immediately after fuel has been spilt.
- Avoid any fuel contact with your clothing. Change your clothing instantly if fuel has been spilt on it (to prevent clothing catching fire).
- Inspect the fuel cap at regular intervals making sure that it can be securely fastened and does not leak.
- Carefully tighten the fuel tank cap. Change location to start the engine (at least 3 meters away from the place of refuelling).
- Never refuel in closed rooms. Fuel vapors accumulate at ground level (risk of explosions).





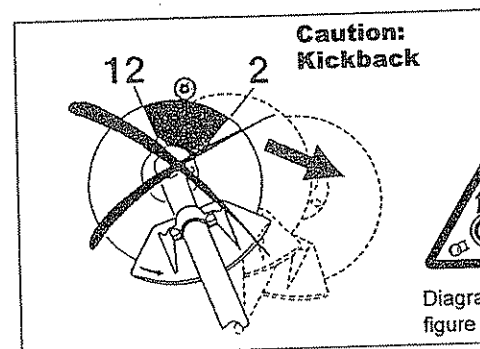
Method of operation

- Only use the brush cutter in good light and visibility. During the winter season beware of slippery or wet areas, ice and snow (risk of slipping). Always ensure a safe footing.
- Never cut above waist height.
- Never stand on a ladder and run the brush cutter.
- Never climb up into trees to perform cutting operation with the brush cutter.
- Never work on unstable surfaces.
- Remove sand, stones, nails etc. found within the working range. Foreign particles may damage the cutting tool and can cause dangerous kickbacks.
- Before commencing cutting, the cutting tool must have reached full working speed.



Kickback

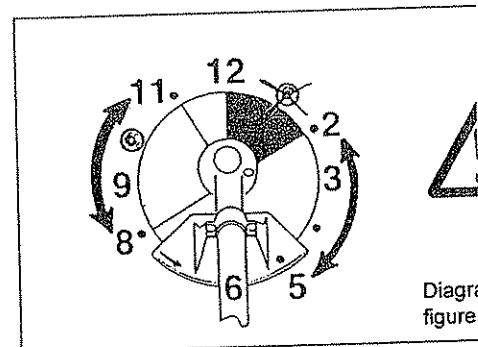
- When operating the brush cutter, uncontrolled kickback may occur.
- This is particularly the case when attempting to cut within a blade segment between 12 and 2 o'clock.
- Never apply the brush cutter within a segment between 12 and 2 o'clock.
- Never apply this segment of the brush cutter blade to solids, such as bushes and trees, etc., having a diameter in excess of 3 cm or the brush cutter will be deflected at great force with the risk of injuries.



Kickback prevention

To avoid kickbacks, observe the following:

- Operation within a blade segment between 12 and 2 o'clock presents positive hazards, especially when using metal cutting tools.
- Cutting operations within a blade segment between 11 and 12 o'clock, and between 2 and 5 o'clock, must only be performed by trained and experienced operators, and then only at their own risk. Easy cutting with almost no kickback is possible within a blade segment between 8 and 11 o'clock.



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STAMP

Cutting Tools

Employ only the correct cutting tool for the job in hand.

Nylon cutting head:

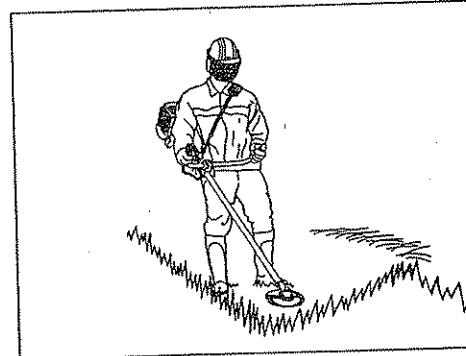
Exclusively designed for cutting along walls, fences, grass edges, trees, posts etc. (supplementing the grass mower). Perform this cutting work by swinging the grass trimmer evenly in half-circles from left to right.

Cutter blade (Star Blade (4 teeth), Eddy Blade (8 teeth)):

For cutting thick materials, such as weed, high grass, bushes, shrubs, under wood, thicket etc. (max. 2 cm dia. thickness). Perform this cutting work by swinging the brush cutter evenly in half-circles from right to left (similar to using a scythe).

Saw blade:

Please use saw blade in case bamboo leaves, small tree, pampas etc. are mixed in weed.



Maintenance instructions

- The condition of the cutter, in particular of the cutting tool of the protective devices and also of the shoulder strap must be checked before commencing work. Particular attention is to be paid to the cutting blades which must be correctly sharpened.

Use special plug connector when replacing or

Never straighten or weld damaged cutting tools.

- Operate the brush cutter with as little noise and contamination as possible.
- In particular check the correct setting of the carburetor.
- Clean the brush cutter at regular intervals and check that all screws and nuts are well tightened.
- Never service or store the brush cutter in the vicinity of naked flames.
- Always store the brush cutter in locked rooms and with an emptied fuel tank.

Observe the relevant accident prevention instructions issued by the relevant trade associations and by the insurance companies.
Do not perform any modifications on the brush cutter as this will endanger your safety.

The performance of maintenance or repair work by the user is limited to those activities as described in the instruction manual. All other work is to be done by an Authorized Service Agent. Use only genuine spare parts and accessories released and supplied by ROBIN.

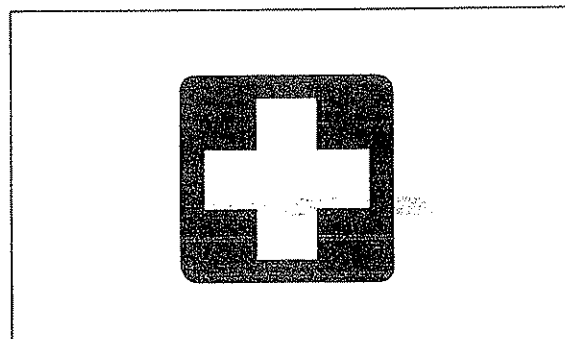
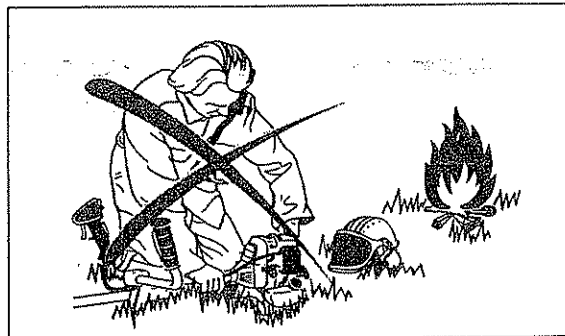
Use of non-approved accessories and tools means increased risk of accidents. ROBIN will not accept any liability for accidents or damage caused by the use of non-approved cutting tools and fixing devices of cutting tools, or accessories.

First Aid

In case of accident make sure that a first-aid box is available in the vicinity of the cutting operations. Immediately replace any item taken from the first aid box.

When asking for help, please give the following information:

- Place of accident
- What happened
- Number of injured persons
- Kind of injuries
- Your name



Packaging

The ROBIN brush cutter will be delivered in two protective cardboard boxes to prevent transport damage. Cardboard is a basic raw material and is therefore consequently reusable or suitable for recycling (waste paper recycling).



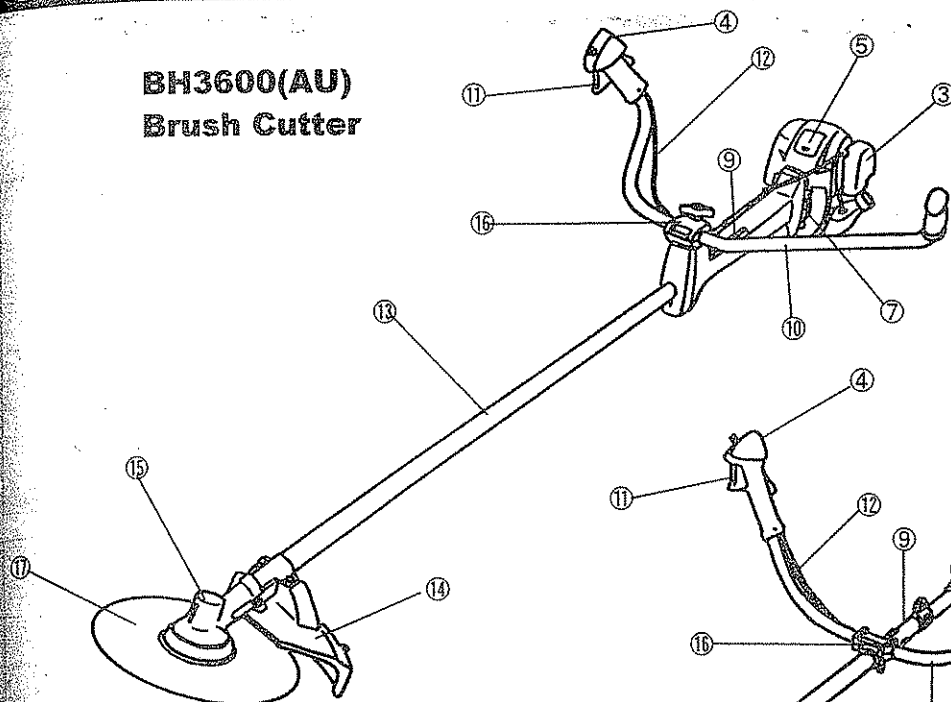
TECHNICAL DATA

Model		BH3600 AU	BH3500 AU
		U handle	U handle
Dimensions : length x width x height (without cutting blade)	mm	1810 x 620 x 550 (71.3" x 24.4" x 21.7")	1810 x 620 x 450 (71.3" x 24.4" x 17.7")
Mass (without plastic guard and cutting blade)	kg	7.6 (16.7 lb)	6.9 (15.2 lb)
Volume (fuel tank)	L	0.65	
Cutting attachments (cutter blade dia.)	mm	255 (Refer to the text P.11)	
Engine displacement	cm ³	33.5	
Maximum engine performance	kw	1.07 at 7000 min ⁻¹	
Maximum rotational frequency of the spindle	min ⁻¹	6850	
Engine speed at recommended max. spindle rotational frequency	min ⁻¹	10000	
Fuel consumption at max. engine performance	kg/h	0.458	
Specific fuel consumption at max. engine performance	g/kwh	426	
Engine speed at idling	min ⁻¹	3000	
Clutch engagement speed	min ⁻¹	4100	
Carburetor (Diaphragm - carburetor)	type	WALBRO WYJ	
Ignition system	type	Solid state Ignition	
Spark plug	type	NGK CMR6A	
Electrode gap	mm	0.7 - 0.8	
Fuel		Automobile gasoline	
Engine oil		Specified Robin oil, or SAE 10W-30 oil API Classification Class SF or higher (4-stroke engine for automobile).	
Gear ratio		13/19	

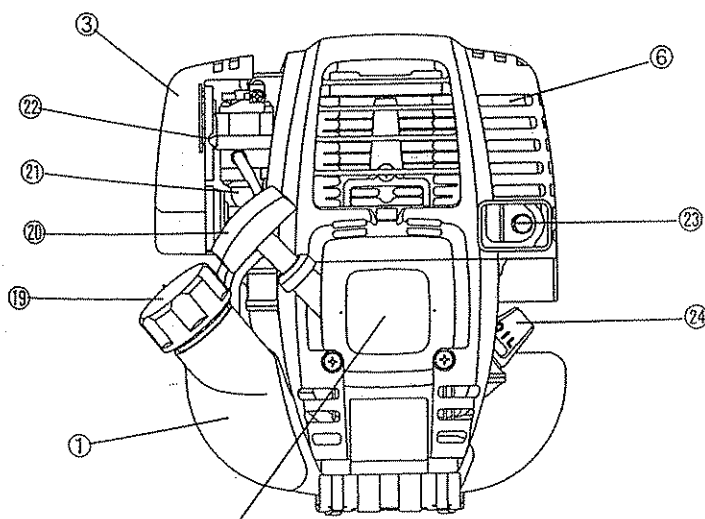
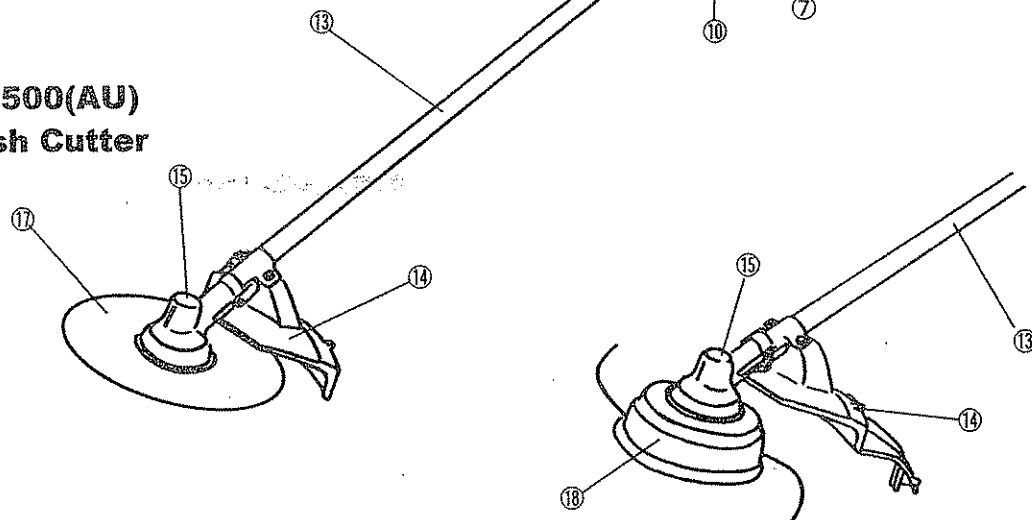
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DESIGNATION OF PARTS

**BH3600(AU)
Brush Cutter**



**BH3500(AU)
Brush Cutter**



DESIGNATION OF PARTS

1	Fuel Tank
2	Rewind Starter
3	Air Cleaner
4	I-O Switch (on/off)
5	Spark Plug
6	Exhaust Muffler
7	Clutch Case
9	Hanger
10	Handle
11	Throttle Lever
12	Control Cable
13	Shaft
14	Protector
15	Gear Case/Head Case
16	Handle Holder
17	Cutter Blade
18	Nylon Cutting Head
19	Fuel Filler Cap
20	Starter Knob
21	Primmer Pump
22	Choke Lever
23	Exhaust Pipe

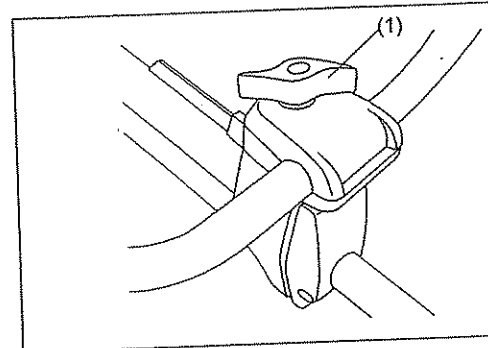
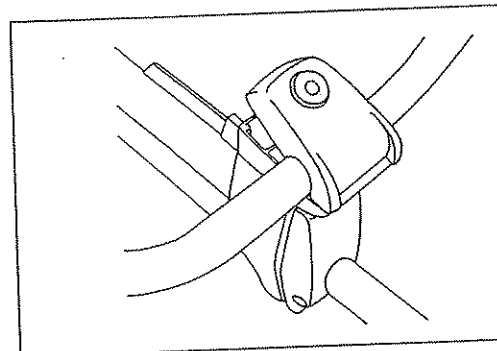
MOUNTING OF HANDLE FOR BH3600

CAUTION: Before doing any work on the brush cutter, always stop the engine and pull the spark plug connector off the spark plug.
Always wear protective gloves!

CAUTION: Start the brush cutter only after having assembled it completely.

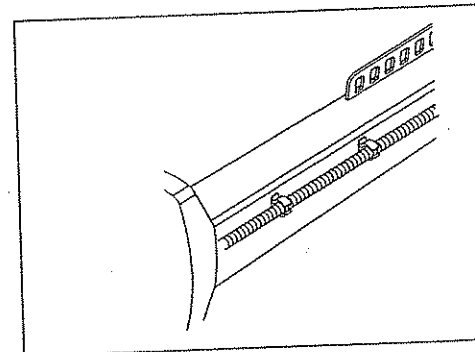
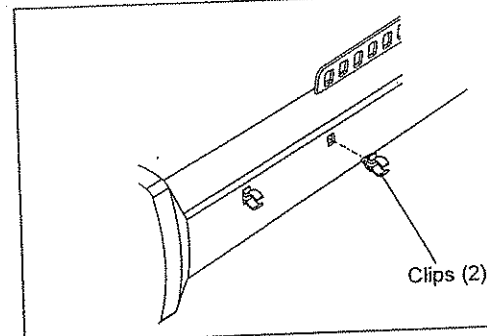


- Place the handle with throttle lever on the handle holder in such a manner that it will be on the right side (to be held by the right hand) viewed from the engine side.
- Provisionally fix the upper side of the handle holder with the attached bolt (1).
- Adjust the handle to an angle easy to manipulate, and fix it by the bolt.



- Fix the control cable by three clips (2).

Note: If the control cable is not kept tight, it may be caught by a twig, leading to an accident.



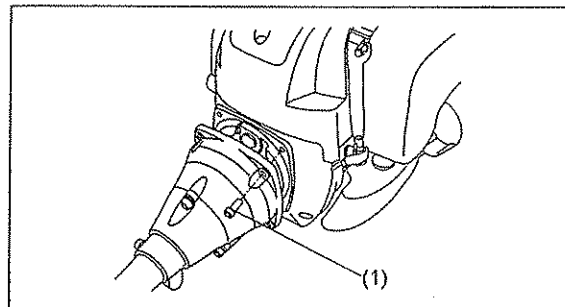
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ASSEMBLY OF ENGINE AND SHAFT FOR BH3500

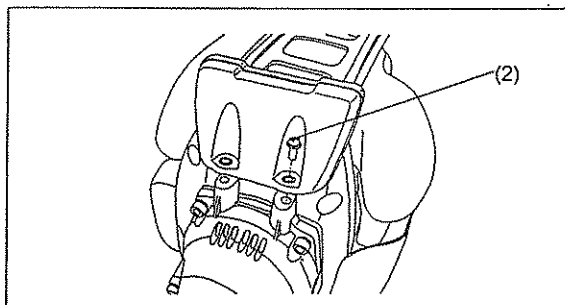
CAUTION: Before doing any work on the brush cutter, always switch off the motor and pull the spark plug connector off the spark plug. Always wear protective gloves!

CAUTION: Start the brush cutter only after having assembled it completely.

After checking the parts, fasten the drive shaft to the engine with four bolts M6 x 22(1).



Mount the stand by two screws M5 x 14.



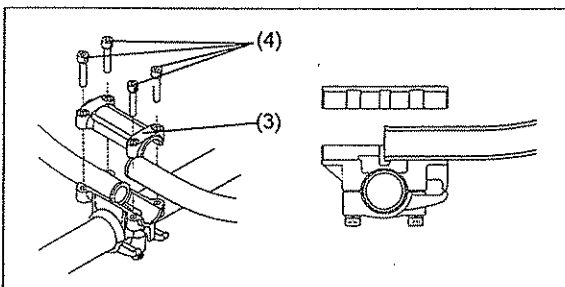
MOUNTING OF HANDLE FOR BH3500



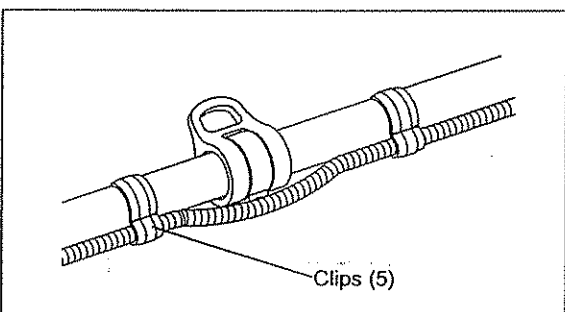
Place the handle with the throttle lever on the handle holder on the right side (to be held by the right hand) and the other on the left side.

Fit the handle edge to the handle holder groove, and provisionally fix the upper side (3) of the handle holder by four bolts M5 x 25 (4).

Adjust the handle to an angle easy to manipulate, and tighten the bolt (4) uniformly on the right and left sides.

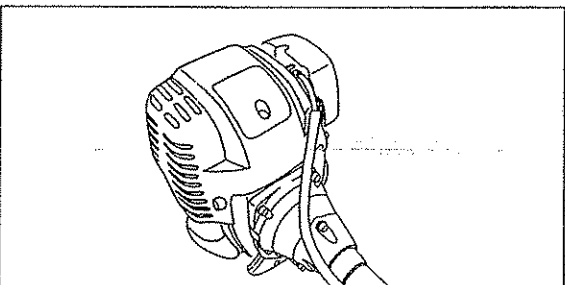


Fix the control cable to the shaft by two clips (5).



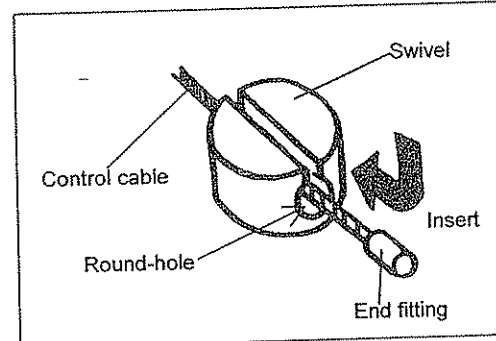
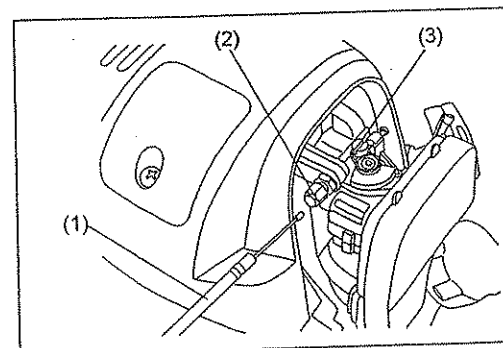
Lay out the control cable as indicated in the figure.

Note: If the control cable is not tight, it may be caught by a twig, leading to an accident.



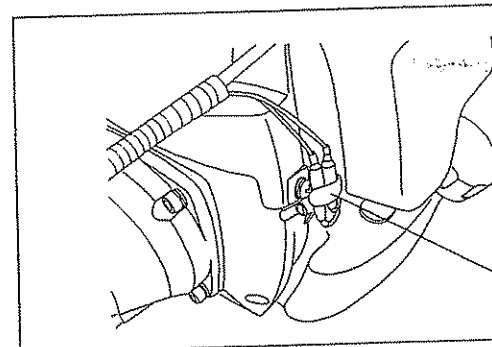
MOUNTING OF CONTROL CABLE

- Remove the air cleaner cover.
- Place the control cable (1) in the adjusting bolt (2), and shift the swivel (3) so that the cable will be put in the swivel groove. At this time, the round-hole side of the swivel will be oriented toward the inner wire end-metal fitting.
- Release the swivel, and confirm that the inner wire-end metal fitting will be placed in the hole.
- Mount the air cleaner cover.



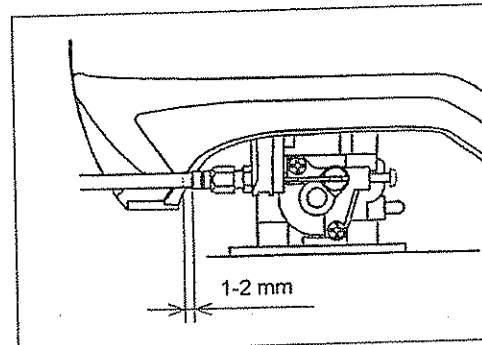
CONNECTION OF SWITCH CORD

- Connect the switch cords to the two cords from the engine by inserting one into the other.
- Fix the cord connector by clamp (4).



ADJUSTMENT OF CONTROL CABLE

Adjust the control cable by adjusting bolt so that it will have 1 to 2 mm play when the throttle lever is set to the low-speed position by carburetor adjusting bolt. (Be careful that the cutter blade will not turn in idling.)



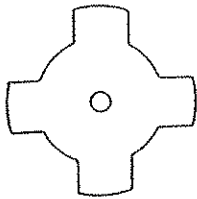
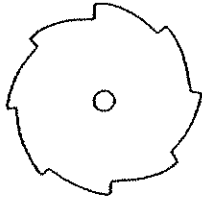
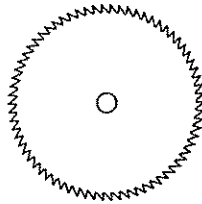
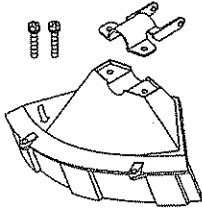
MOUNTING OF PROTECTOR

To meet the applicable safety provisions, only the tool/protector combinations as indicated in the table must be used.

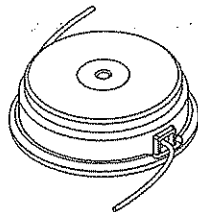
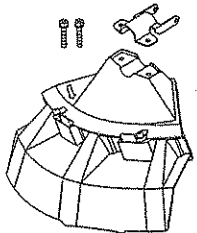


Be sure to use genuine ROBIN cutter blades or nylon cutting head.

- The cutter blade must be well polished, free of cracks or breakage. If the cutter blade hits against a stone during operation, stop the engine and check the blade immediately.
- Polish or replace the cutter blade every three hours of operation.
- The outside diameter of the cutter blade must be 255mm (10"). Never use any blades surpassing 255mm (10") in outside diameter.
- If the nylon cutting head hits against a stone during operation, stop the engine and check the nylon cutting head immediately.
- The mounting hole for the cutter blade is 25.4mm (1").

Star Blade	Eddy Blade	Saw Blade	Protector for metal blades
			
PART NO. 6418501400	PART NO. 6418501900	PART NO. 6418502200	PART NO. 6348002000

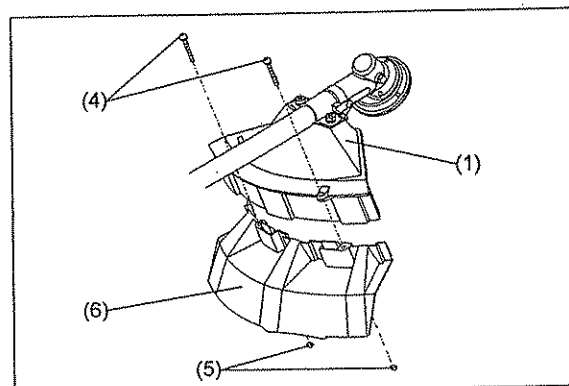
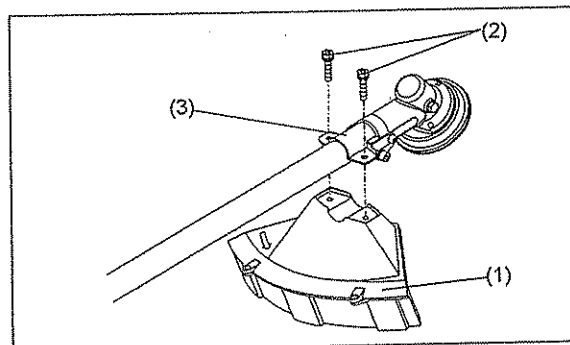
CAUTION: The appropriate protector must always be installed, for your own safety and in order to comply with accident-prevention regulations. Operation of the equipment without the guard being in place is not permitted.

Nylon cutting head	Protector for cord cutter
	
	PART NO. 6348001000

- Fix the protector (1) to the clamp (3) with two bolts M6 x 30 (2).

NOTE: Tighten the right and left bolts evenly so that the gap between the clamp (3) and the protector (1) will be constant. Otherwise, the protector sometimes may not function as specified.

- In use of the nylon cutting head insert the protector (6) into the protector (1), and fasten them with two screw (4) and two nuts (5).

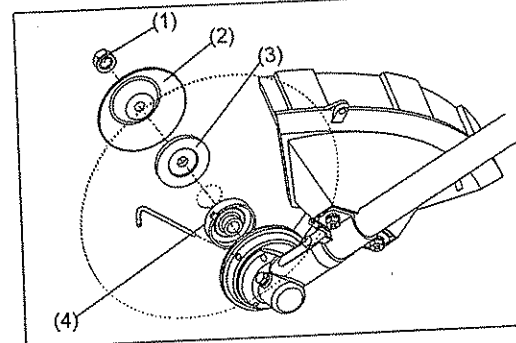


MOUNTING OF CUTTER BLADE OR NYLON CUTTING HEAD

Turn the machine upside down, and you can replace the cutter blade or the nylon cutting head easily.



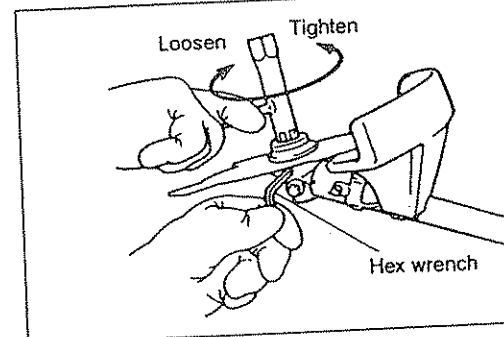
- Insert the hex wrench through the hole in the gear case and rotate the receiver washer (4) until it is locked with the hex wrench.
- Loosen the nut (1) (left-hand thread) with the socket wrench and remove the nut (1), cup (2), and clamp washer (3).



Mounting of cutter blade

With the hex wrench still in place.

- Mount the cutter blade onto the shaft so that the guide of the receiver washer (4) fits in the arbor hole in the cutter blade. Install the clamp washer (3), cup (2), and secure the cutter blade with the nut (1).
[Tightening torque: 13 - 23 N · m]



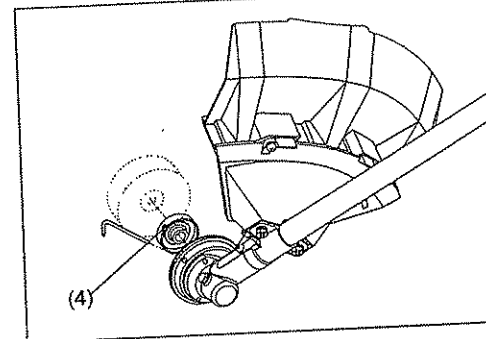
NOTE: Always wear gloves when handling the cutter blade.

NOTE: The cutter blade-fastening nut (with coned disc spring) is a consumable part.

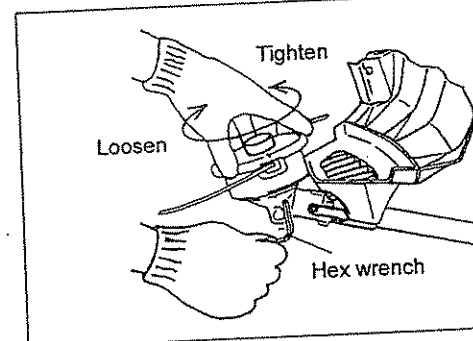
If there appears any wear or deformation on the coned disc spring, replace the nut.

Mounting of nylon cutting head

- The clamp washer (3), cup (2), and nut (1) are not necessary for mounting the nylon cutting head. The nylon head should go on top of the receiver washer (4).
- Insert the hex wrench through the hole in the gear case and rotate the receiver washer (4) until it is locked with the hex wrench.

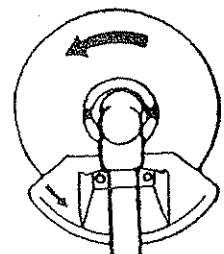


- Then screw the nylon cutting head onto the shaft by turning it counter-clockwise.
- Remove the hex wrench.



- Make sure that the blade is the left way up.

Rotation



BEFORE START OF OPERATION

Inspection and Refill of Engine Oil

Perform the following procedure, with the engine cooled down.

While keeping the engine level, remove the oil gauge, and confirm that the oil is filled within the upper and lower limit marks.

When the oil is in short in such a way that the oil gauge touches the oil only by its tip, in particular with the oil gauge remaining inserted in the crankcase without screwing-in (Fig. 1), refill new oil near the port (Fig. 2).

For reference, the oil refill time is about 15 h (refill frequency: 15 times).

If the oil changes in color or mixes with dirt, replace it with new one. (For the interval and method of replacement, refer to P. 18)

Recommended oil: Specified Robin oil, or SAE 10W-30 oil of API Classification, Class SF or higher (4-stroke engine for automobile)

Oil volume: Approx. 0.1 L

Note: If the engine is not kept upright, oil may go into around the engine, and may be refilled excessively.
If the oil is filled above the limit, the oil may be contaminated or may catch fire with white.

Point 1 in Replacement of Oil "Oil Gauge"

Remove dust or dirt near the oil refill port, and detach the oil gauge.

Keep the detached oil gauge free of sand or dust. Otherwise, any sand or dust adhering to the oil gauge may cause irregular oil circulation or wear on the engine parts, which will result in troubles.

As an example to keep the oil gauge clean, it is recommended to insert the oil gauge on its knob side into the engine cover, as shown in Fig. 3.

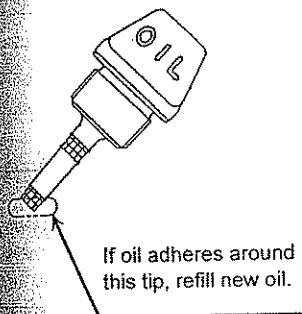


Fig. 1

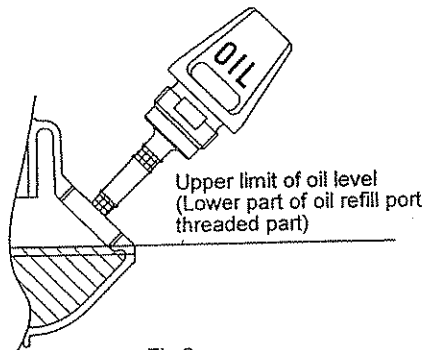


Fig. 2

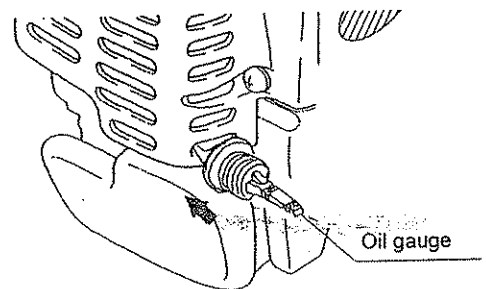
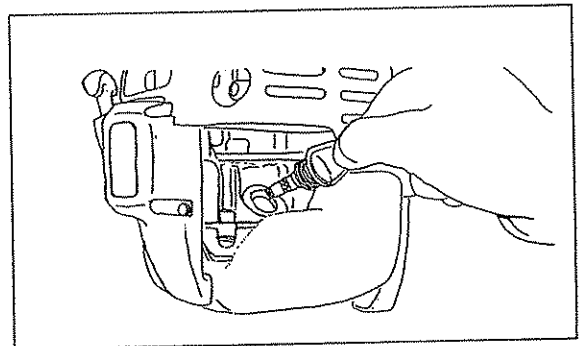


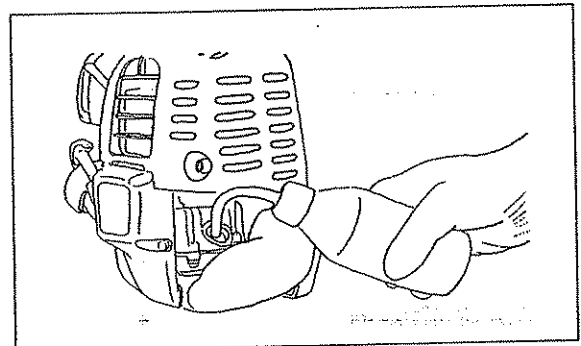
Fig. 3

Keep the engine level, and detach the oil gauge.



Fill oil up to the edge of the oil refill port. (Refer to Fig. 2 of the preceding page)

Feed oil with the lubricant refill container.



Securely tighten the oil gauge. Insufficient tightening may cause oil leakage.

Point 2 in Replacement of Oil: "If oil spills out"

... which will contaminate the

REFUELING

Handling of Fuel

It is necessary to handle fuel with utmost care. Fuel may contain substances similar to solvents. Refueling must be performed in a sufficiently ventilated room or in the open air. Never inhale fuel vapor, and keep fuel away from you. If you touch fuel repeatedly or for a long time, the skin becomes dry, which may cause skin disease or allergy. If fuel enters into the eye, clean the eye with fresh water. If your eye remains still irritated, consult your doctor.

Storage Period of Fuel

Fuel should be used up within a period of 4 weeks, even if it is kept in a special container in a well-ventilated shade. If a special container is not used or if the container is not covered, fuel may deteriorate in one day.

STORAGE OF MACHINE AND REFILL TANK

- Keep the machine and tank at a cool place free from direct sunshine.
- Never keep the fuel in the cabin or trunk.

Fuel

The engine is a four-stroke engine. Be sure to use an automobile gasoline (regular gasoline or premium gasoline).

Points for Fuel

- Never use a gasoline mixture which contains engine oil. Otherwise, it will cause excessive carbon accumulation or mechanical troubles.
- Use of deteriorated oil will cause irregular startup.

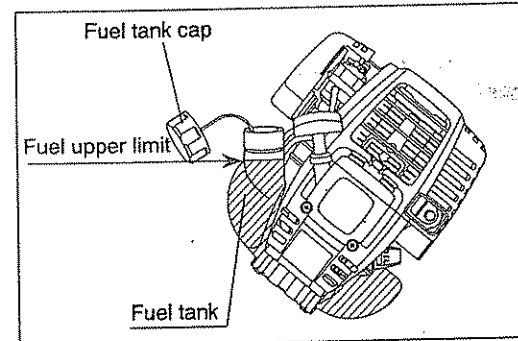
Refueling

WARNING: INFLAMMABLES STRICTLY PROHIBITED

Gasoline used: Automobile gasoline (unleaded gasoline)

- Loosen the tank cap a little so that there will be no difference in atmospheric pressure.
- Detach the tank cap, and refuel, discharging air by tilting the fuel tank so that the refuel port will be oriented upward. (Never refill fuel full to the oil refill port.)
- Wipe well the periphery of the tank cap to prevent foreign matter from entering into the fuel tank.
- After refueling, securely tighten the tank cap.

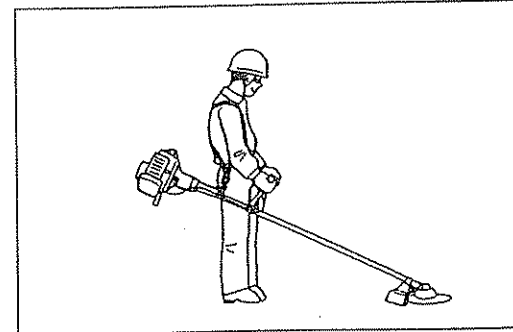
- If there is any flaw or damage on the tank cap, replace it.
- The tank cap is consumable, and therefore should be renewed every two to three years.



CORRECT HANDLING OF MACHINE

Attachment of shoulder strap

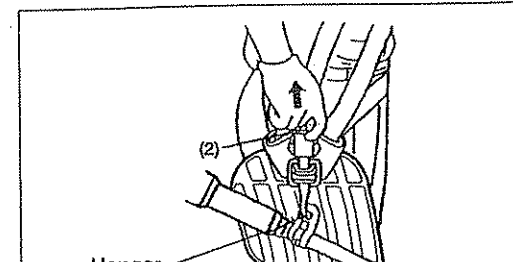
- Adjust the strap length so that the cutter blade will be kept parallel with the ground.



Detachment

- In case of emergency, remove the emergency detachment lever (2) by pulling strongly with a finger. The machine will detach from body. Be extremely careful to maintain control of the machine at this time. Do not allow the machine to be deflected toward you or anyone in the work vicinity.

WARNING: Failure to maintain complete control of the machine at all could result in serious bodily injury or DEATH.



POINTS IN OPERATION AND HOW TO STOP

Observe the applicable accident prevention regulations!



STARTING

Move at least 3m away from the place of refuelling. Place the brush cutter on a clean piece of ground taking care that the cutting tool does not come into contact with the ground or any other objects.

A: Cold start

1) Set this machine on a flat space.

2) Set the I-O switch (1) to OPERATION.

3) Choke lever

Close the choke lever.

Choke opening:

- Full closing in cold or when the engine is cold.
- Full or half opening in restart just after stop of operation.

4) Primer pump

Continue to push the primer pump until fuel enters into the primer pump. (In general, fuel enters into the primer pump by 7 to 10 pushes.)

If the primer pump is pushed excessively, an excess of gasoline returns to the fuel tank.

5) Recoil starter

- Pull the start knob gently until it is hard to pull (compression point). Then, return the start knob, and pull it strongly.
- Never pull the rope to the full. Once the start knob is pulled, never release your hand immediately. Hold the start knob until it returns to its original point.

6) Choke lever

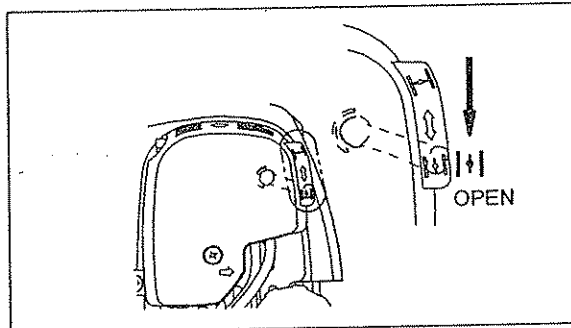
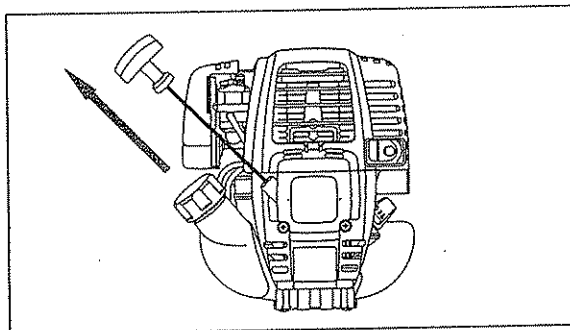
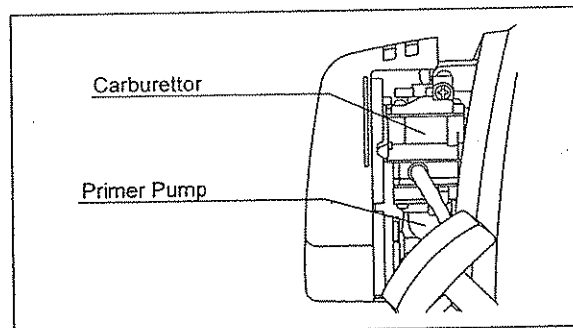
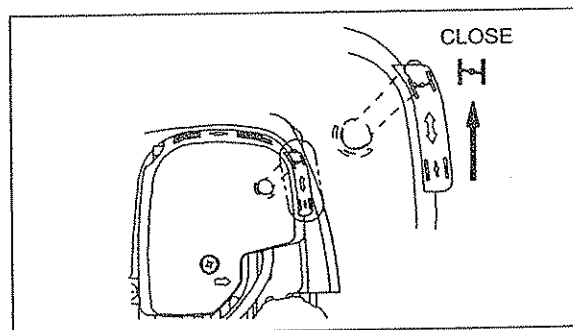
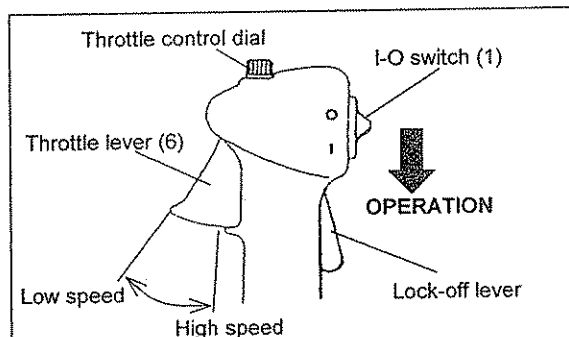
When the engine starts, open the choke lever.

- Open the choke lever progressively while checking the engine operation. Be sure to open the choke lever to the full in the end.

- In cold or when the engine is cooled down, never open the choke lever suddenly. Otherwise, the engine may stop.

7) Warm-up operation

Continue warm-up operation for 2 to 3 minutes.



Note: - If the starter handle is pulled repeatedly when the choke lever remains at "START" position, the engine will not start easily due to excessive fuel intake.

Caution during operation:

If the throttle lever is opened fully in a no-load operation, the engine rotation is increased to 10,000min⁻¹ or more. Never operate the engine at a higher speed than required and at an approximate speed of 6,000 - 8,500min⁻¹.

B: Startup after warm-up operation

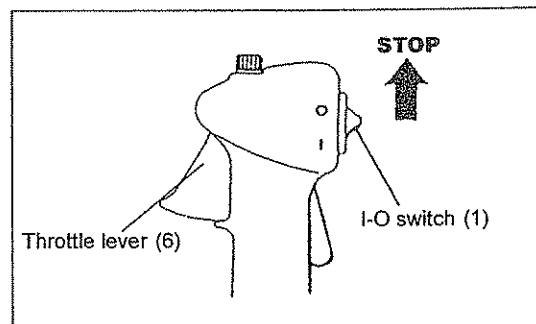
- 1) Push the primer pump repeatedly.
- 2) Keep the throttle lever at the idling position.
- 3) Pull the recoil starter strongly.
- 4) If it is difficult to start the engine, open the throttle by about 1/3.
Pay attention to the cutter blade which may rotate.

Attention in Operation

When the engine is operated upside down, white smoke may come out from the muffler.

STOPPING

- 1) Release the throttle lever (6) fully, and when the engine rpm has lowered, set the I-O switch to STOP the engine will now stop.
- 2) Be aware that the cutting head may not stop immediately and allow it to slow down fully.



Operation of Throttle Lever

With the throttle lever main unit held by hand (with the lock-off lever pushed), pull the throttle lever and the engine rotation will be increased. Release the throttle lever, and the engine will run idle again.

Release the hand from the throttle lever main unit, and the lock-off lever will return automatically so that the throttle lever will not be pulled in mistake.

Adjustment of Engine ROTATION

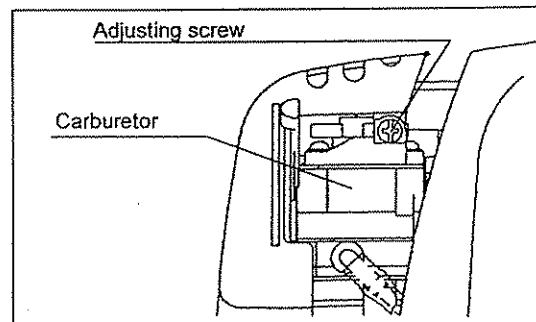
When adjusting the engine rotation with the throttle lever opened to the full, turn the throttle control dial. Turn the dial clockwise, and the engine rotation will be reduced. Turn the dial counterclockwise, and the engine rotation will be increased.

ADJUSTMENT OF LOW-SPEED ROTATION (IDLING)

When it is necessary to adjust the low-speed rotation (idling), perform it by the carburetor adjusting screw.

CHECKUP OF LOW-SPEED ROTATION

- Set the low-speed rotation to 3000min⁻¹.
If it is necessary to change the rotation speed, regulate the adjusting screw (illustrated on the left), with Phillips screwdriver.
- Turn the adjusting screw to the right, and the engine rotation will increase.
Turn the adjusting screw to the left, and the engine rotation will drop.
- The carburetor is generally adjusted before shipment. If it is necessary to readjust it, please contact Authorized Service Agent.

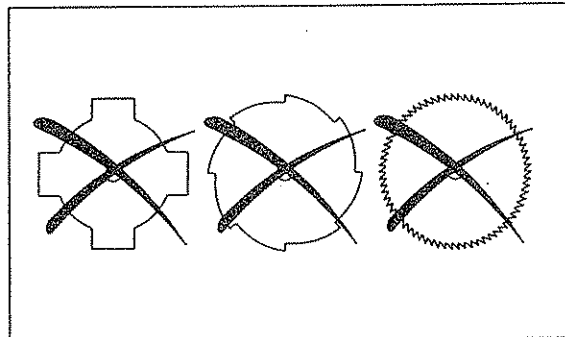


RESHARPENING THE CUTTING TOOL

CAUTION: The cutting tools mentioned below must only be resharpened by an authorized facility. Manual resharpening will result in imbalances of the cutting tool causing vibrations and damage to the equipment.

cutter blade (star blade (4 teeth), eddy blade (8 teeth), saw blade)
An expert resharpening and balancing service is provided by Authorized Service Agents.

NOTE: To increase the service life of the cutter blade (star blade, eddy blade) it may be turned over once, until both cutting edges have become blunt.



NYLON CUTTING HEAD

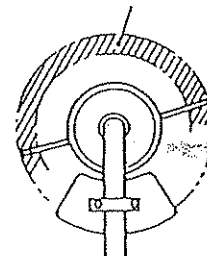
The nylon cutting head is a dual string trimmer head capable of bump & feed mechanisms.

The nylon cutting head will automatically feed out the proper length of nylon cord by the changes in centrifugal force caused by increasing or decreasing RPMS. However, to cut soft grass more efficiently, bump the nylon cutting head against the ground to feed out extra cord as indicated under operation section.

Operation

- 1. Increase the nylon cutting head speed to approx. 6,000 min⁻¹.
- 2. Low speed (under 4,800 min⁻¹) is not suitable, the nylon cord will not feed out properly at low speed.
- 3. The most effective cutting area is shown by the shaded area.

Most effective cutting area

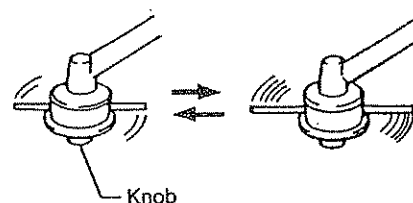


If the nylon cord does not feed out proceed as follows:

1. Release the throttle lever to run the engine idle and then squeeze the throttle lever fully. Repeat this procedure until the nylon cord feeds out to the proper length.
2. If the nylon cord is too short to feed out automatically with the above procedure, bump the knob of the nylon cutting head against the ground to feed out the nylon cord.
3. If the nylon cord does not feed out with procedure 2, rewind/replace the nylon cord by following the procedures described under "Replacing the nylon cord".

Idle speed

Full speed



SERVICING INSTRUCTIONS

CAUTION: Before doing any work on the brush cutter, always stop the engine and pull the plug cap off the spark plug (see "checking the spark plug").
Always wear protective gloves!

To ensure a long service life and to avoid any damage to the equipment, the following servicing operations should be performed at regular intervals.

Daily checkup and maintenance

- Before operation, check the machine for loose screws or missing parts. Pay particular attention to the tightness of the cutter blade or nylon cutting head.
- Before operation, always check for clogging of the cooling air passage and the cylinder fins. Clean them if necessary.
- Perform the following work daily after use:
 - Clean the brush cutter externally and inspect for damage.
 - Clean the air filter. When working under extremely dusty conditions, clean the filter several times a day.
 - Check the blade or the nylon cutting head for damage and make sure it is firmly mounted.
 - Check that there is sufficient difference between idling and engagement speed to ensure that the cutting tool is at a standstill while the engine is idling (if necessary reduce idling speed).If under idling conditions the tool should still continue to run, consult your nearest Authorized Service Agent.
- Check the functioning of the I-O switch, the lock-off lever, the throttle lever.

REPLACEMENT OF ENGINE OIL

Deteriorated engine oil will shorten the life of the sliding and rotating parts to a great extent. Be sure to check the period and quantity of replacement.



ATTENTION: In general, the engine main unit and engine oil still remain hot just after the engine is stopped. In replacement of oil, confirm that the engine main unit and engine oil are sufficiently cooled down. Otherwise, there may remain a risk of scald.

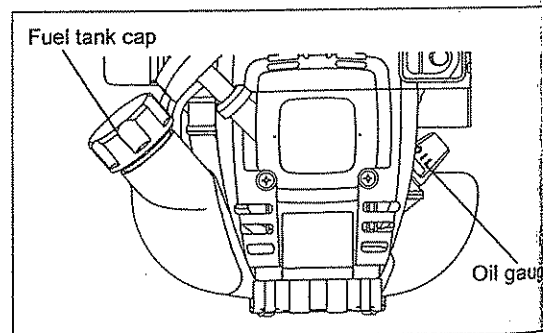
Note: If the oil filled above the limit, it may be contaminated or may catch fire with white smoke.

Interval of replacement: Initially, every 20 operating hours, and subsequently every 50 operating hours

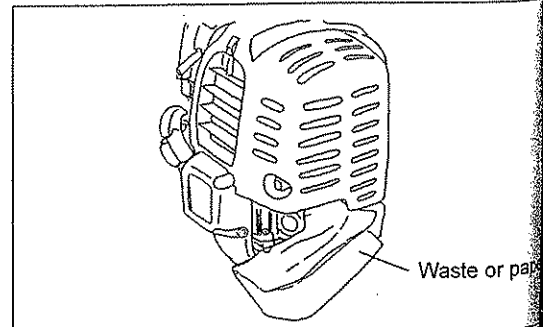
Recommended oil: Specified Robin oil, or SAE10W-30 oil of API Classification SF Class or higher (4-stroke engine oil for automobile)

In replacement, perform the following procedure.

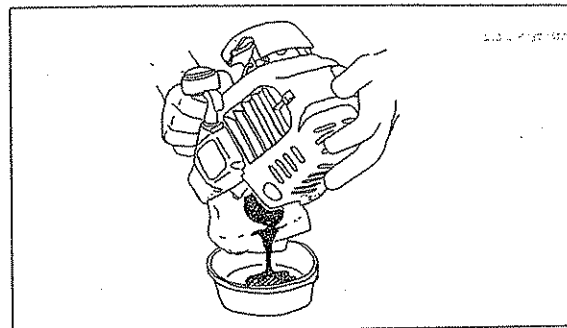
- 1) Confirm that the tank cap is tightened securely.
- 2) Detach the oil gauge.
Keep the oil gauge free from dust or dirt.



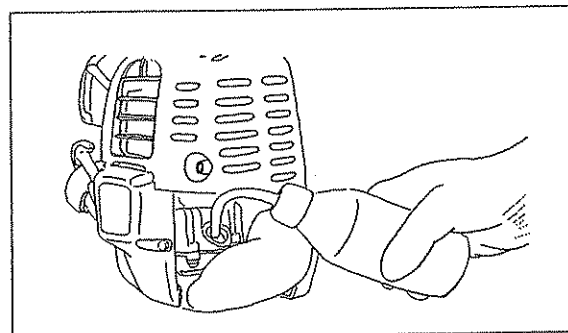
- 3) Place waste or paper near the oil refill port.



- 4) Detach the oil gauge, and drain oil, tilting the main unit toward the oil refill port.
Drain oil in a container.



- 5) Keep the engine level, and feed new oil up to the edge of the oil refill port.
In refill, use a lubricant refill container.
- 6) After refill, securely tighten the oil gauge. Insufficient tightening of the oil gauge will lead to oil leakage.



POINTS ON OIL

Never discard replaced engine oil in garbage, earth or sewage ditch. Disposal of oil is regulated by law. In disposal, always follow the relevant laws and regulations. For any points remaining unknown, contact Authorized Service Agent.

Oil will deteriorate even when it is kept unused. Perform inspection and replacement at regular intervals (replace with new oil every 6 months).

CLEANING OF AIR CLEANER



DANGER: INFLAMMABLES STRICTLY PROHIBITED

Interval of Cleaning and Inspection: Daily (every 10 operating hours)

Turn the choke lever to the full close side, and keep the carburetor off from dust or dirt.

Remove the air cleaner cover-fixing bolts.

Turn the cover lower side and detach the air cleaner cover.

If it adheres to the element (sponge), squeeze it firmly.

In heavy contamination:

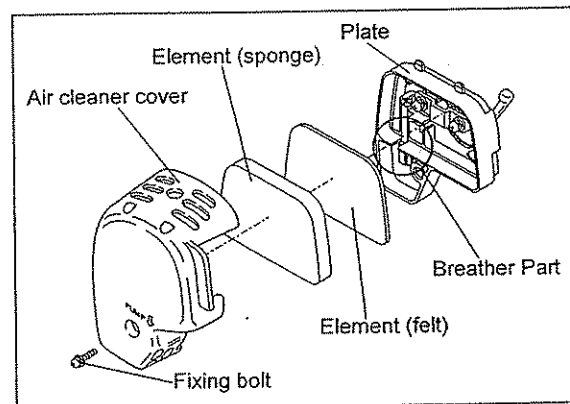
Remove the element (sponge), immerse it in warm water or in water-diluted neutral detergent, and dry it completely.

Clean the element (felt) with gasoline, and dry it completely.

When detaching the element, be sure to dry it completely. Insufficient drying of the element may lead to difficult startup.

Wipe out with waste cloth, oil adhering around the air cleaner cover and plate.

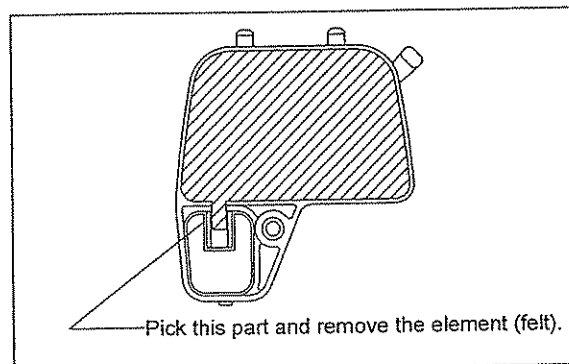
Immediately after cleaning is finished, attach the cleaner cover and tighten it with fixing bolts. (In remounting, first place the upper claw, and then the lower



Points in Handling Air Cleaner Element

Clean the element several times a day, if excessive dust adheres to it.

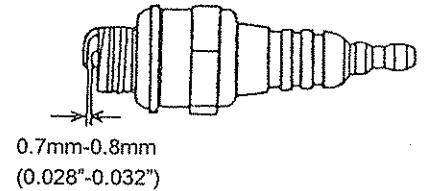
If operation continues with the element remaining not cleared of oil, oil in the air cleaner may fall outside, resulting in oil contamination.



CHECKING THE SPARK PLUG

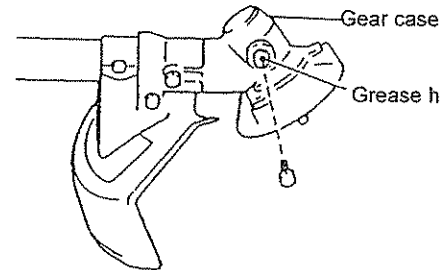
- Only use the supplied universal wrench to remove or to install the spark plug.
- The gap between the two electrodes of the spark plug should be 0.7-0.8mm (0.028"-0.032"). If the gap is too wide or too narrow, adjust it. If the spark plug is clogged with carbon or fouled, clean it thoroughly or replace it.

CAUTION: Never touch the spark plug connector while the engine is running (danger of high voltage electric shock).



SUPPLY OF GREASE TO GEAR CASE

- Supply grease (Shell Alvania 2 or equivalent) to the gear case through the grease hole every 30 hours. (Genuine ROBIN grease may be purchased from your ROBIN dealer.)



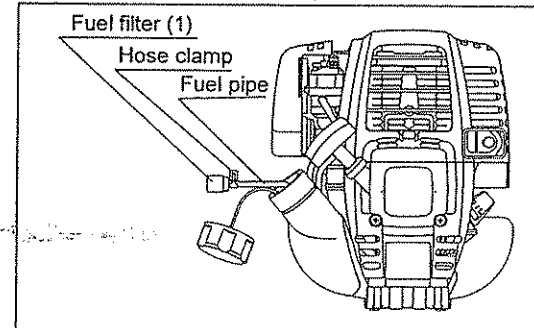
CLEANING OF FUEL FILTER

WARNING: INFLAMMABLES STRICTLY PROHIBITED

Interval of Cleaning and Inspection: Monthly (every 50 operating hours)

Suction head in the fuel tank

- The fuel filter (1) of the suction head is used to filter the fuel required by the carburetor.
- A periodical visual inspection of the fuel filter is to be conducted. For that purpose open the tank cap, use a wire hook and pull out the suction head through the tank opening. Filters found to have hardened, been polluted or clogged up are to be replaced.
- Insufficient fuel supply can result in the admissible maximum speed being exceeded. It is therefore important to replace the fuel filter at least quarterly to ensure satisfactory fuel supply to the carburetor.



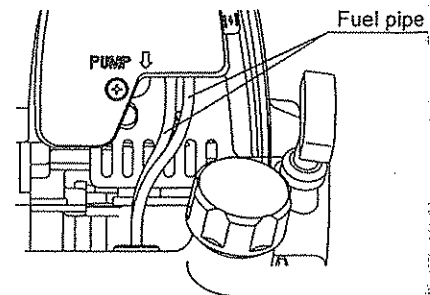
REPLACEMENT OF FUEL PIPE

CAUTION: INFLAMMABLES STRICTLY PROHIBITED

Interval of Cleaning and Inspection: Daily (every 10 operating hours)
Replacement: Annually (every 200 operating hours)

Replace the fuel pipe every year, regardless of operating frequency. Fuel leakage may lead to fire.

If any leakage is detected during inspection, replace the oil pipe immediately.



INSPECTION OF BOLTS, NUTS AND SCREWS

- Retighten loose bolts, nuts, etc.
- Check for fuel and oil leakage.
- Replace damaged parts with new ones for safety operation.

CLEANING OF PARTS

- Keep the engine always clean.
- Keep the cylinder fins free of dust or dirt. Dust or dirt adhering to the fins will cause seizure.

REPLACEMENT OF GASKETS AND PACKINGS

In reassembling after the engine is dismantled, be sure to replace the gaskets and packings with new ones.

STORAGE



WARNING: When draining the fuel, be sure to stop the engine and confirm that the engine cools down.

Just after stopping the engine, it may still hot with possibility of burns, inflammability and fire.



ATTENTION: When the machine is kept out of operation for a long time, drain up all fuel from the fuel tank and carburetor, and keep it at a dry and clean place.

Drain up fuel from the fuel tank and carburetor according to the following procedure:

- 1) Remove the fuel tank cap, and drain fuel completely.
If there is any foreign matter remaining in the fuel tank, remove it completely.
- 2) Pull out the fuel filter from the refill port using a wire.
- 3) Push the primer pump until fuel is drained from there, and drain fuel coming into the fuel tank.
- 4) Reset the filter to the fuel tank, and securely tighten the fuel tank cap.
- 5) Then, continue to operate the engine until it stops.

Remove the spark plug, and drip several drops of engine oil through the spark plug hole.

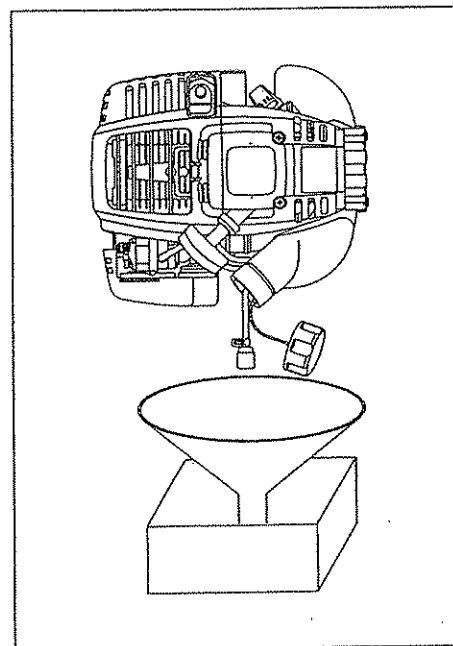
Gently pull the starter handle so that engine oil will spread over the engine, and attach the spark plug.

Attach the cover to the cutter blade.

During storage, keep the rod horizontal or keep the machine upright with the blade edge oriented upward. (In this case, pay full attention to prevent the machine from falling.)

Never store the machine with the cutter blade edge oriented downward. Lubricating oil may spill out.

Keep the drained fuel in a special container in a well-ventilated shade.



Attention after long-time storage

- Before startup after long-time shutdown, be sure to replace oil (refer to P 18). Oil will deteriorate while the machine is kept out of operation.

Fault location

Fault	System	Observation	Cause
Engine not starting or with difficulty	Ignition system	Ignition spark O.K.	Fault in fuel supply or compression system, mechanical defect
		No ignition spark	STOP-switch operated, wiring fault or short circuit, spark plug or connector defective, ignition module faulty
	Fuel supply	Fuel tank filled	Incorrect choke position, carburetor defective, fuel supply line bent or blocked, fuel dirty.
	Compression	No compression when pulled over	Cylinder bottom gasket defective, crankshaft seals damaged, cylinder or piston rings defective or improper sealing of spark plug
Warm start problems	Mechanical fault	Starter not engaging	Broken starter spring, broken parts inside of the engine
		Tank filled ignition spark existing	Carburetor contaminated, have it cleaned
Engine starts but dies	Fuel supply	Tank filled	Incorrect idling adjustment, carburetor contaminated
			Fuel tank vent defective, fuel supply line interrupted, cable or STOP-switch faulty
Insufficient performance	Several systems may simultaneously be affected	Engine idling poor	Air filter contaminated, carburetor contaminated, muffler clogged, exhaust duct in the cylinder clogged

Operating time Item		Before operation	After lubrication	Daily (10h)	30h	50h	200h	Shutdown /rest	Corre pondir
Engine oil	Inspect/clean	○							13
	Replace					○ ^{*1}			18
Tightening parts (bolt, nut)	Inspect	○							20
Fuel tank	Clean/inspect	○							—
	Drain fuel							○ ^{*3}	21
Throttle lever	Check function		○						15
Stop switch	Check function		○						15
Cutting blade	Inspect	○		○					11
Low-speed rotation	Inspect/adjust			○					16
Air cleaner	Clean			○					19
Ignition plug	Inspect			○					20
Cooling air duct	Clean/inspect			○					20
Fuel pipe	Inspect			○					20
	Replace						⊙ ^{*2}		—
Gear-case grease	Refill				○				20
Fuel filter	Clean/replace					○			20
Clearance between air intake valve and air discharge valve	Adjust						⊙ ^{*2}		—
Oil tube	Inspect						⊙ ^{*2}		—
Engine overhaul							⊙ ^{*2}		—
Carburetor	Drain fuel							○ ^{*3}	21

*1 Perform initial replacement after 20h operation.

*2 For the 200 operating hour inspection, request Authorized Service Agent or a machine shop.

*3 After emptying the fuel tank, continue to run the engine and drain fuel in the carburetor.

PLACE

TROUBLESHOOTING

Before making a request for repairs, check a trouble for yourself. If any abnormality is found, control your machine according to the description of this manual. Never tamper or dismount any part contrary to the description. For repairs, contact Authorized-Service Agent or local dealership.

State of abnormality	Probable cause (malfunction)	Remedy
Engine does not start	Failure to operate primer pump	Push 7 to 10 times.
	Low pulling speed of starter rope	Pull strongly.
	Lack of fuel	Feed fuel.
	Clogged fuel filter	Clean
	Broken fuel tube	Straighten fuel tube
	Deteriorated fuel	Deteriorated fuel makes starting more difficult. Replace with new one. (Recommended replacement: 1 month)
	Excessive suction of fuel	Set throttle lever from medium speed to high speed, and pull starter handle until engine starts. Once engine starts, cutter blade starts rotating. Pay full attention to cutter blade. If engine will not start still, remove spark plug, make electrode dry, and reassemble them as they originally are. Then, start as specified.
	Detached plug cap	Attach securely
	Contaminated spark plug	Clean
	Abnormal clearance of spark plug	Adjust clearance
	Other abnormality of spark plug	Replace
	Abnormal carburetor	Make request for inspection and maintenance.
	Starter rope cannot be pulled	Make request for inspection and maintenance
	Abnormal drive system	Make request for inspection and maintenance
Engine stops soon Engine speed does not increase	Insufficient warm-up	Perform warm-up operation
	Choke lever is set to "CLOSE" although engine is warmed up	Set to "CLOSE"
	Clogged fuel filter	Clean
	Contaminated or clogged air cleaner	Clean
	Abnormal carburetor	Make request for inspection and maintenance
	Abnormal drive system	Make request for inspection and maintenance
Cutter blade does not rotate ↓ Stop engine immediately	Loosened cutter blade-tightening nut	Tighten securely
	Twigs caught by cutter blade or dispersion-preventing cover	Remove foreign matter
	Abnormal drive system	Make request for inspection and maintenance.
Main unit vibrates abnormally. ↓ Stop engine immediately	Broken, bent or worn cutter blade	Replace cutter blade
	Loosened cutter blade-tightening nut	Tighten securely
	Shifted convex part of cutter blade and cutter blade support fitting	Attach securely
	Abnormal drive system	Make request for inspection and maintenance
Cutter blade does not stop immediately. ↓ Stop engine immediately	High idling rotation	Adjust
	Detached throttle wire	Attach securely
	Abnormal drive system	Make request for inspection and maintenance
Engine does not stop. ↓ Run engine at idling, and set choke lever to CLOSE.	Detached connector	Attach securely
	Abnormal electric system	Make request for inspection and maintenance.

When the engine does not start after warm-up operation:

If there is no abnormality found for the check items, open the throttle by about 1/3 and start the engine.

EMISSION COMPLIANCE PERIOD

For handheld engine : The Emissions

Compliance Period referred to on the Emissions

Compliance label indicates the number of operating hours for which the engine has been shown to meet Federal emission requirements.

Category C=50 hours, B=125 hours, and A=300 hours.

AIR INDEX

An Air Index Information hang tag was supplied to this engine in accordance with the emission regulations of the California Air Resources Board.

The bar graph on the hang tag shows the emissions performance of this engine. The bar graph can be used to compare the emissions performance with other available engine. The lower the Air Index, the less pollution.

The following durability description is to provide you with information relating to the emission durability period of the engine.

<u>Descriptive Term</u>	<u>Applicable to Emissions Durability Period</u>
Moderate	— 50hours (0-65 cc)
Intermediate	— 125hours (0-65cc)
Extended	— 300hours (0-65cc)

Notice : The Air Index Information hang tag must remain on the engine or on the equipment until it is sold to the ultimate purchaser. Remove the hang tag before operating the engine.

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and FUJI ROBIN INDUSTRIES LTD. are pleased to explain the emission control system warranty on your 2000 and later Small Off-Road engine (herein "engine"). In California, the engine must be designed, built and equipped to meet the State's stringent anti-smog standards. FUJI ROBIN INDUSTRIES LTD. must warrant the emission control system on your engine for the periods of time described below, provided there has been no abuse, neglect or improper maintenance of your engine. Your emission control system includes parts such as the carburetor and the ignition system. Also included may be hoses, connectors and other emission-related assemblies. Where a warrantable condition exists, FUJI ROBIN INDUSTRIES LTD. will repair your engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

The 2000 and later engines are warranted for two (2) years. If any emission-related part on your engine is defective, the part will be repaired or replaced by FUJI ROBIN INDUSTRIES LTD..

OWNER'S WARRANTY RESPONSIBILITIES:

- As the engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual.

FUJI ROBIN INDUSTRIES LTD. recommends that you retain all receipts covering maintenance on your engine, but FUJI ROBIN INDUSTRIES LTD. cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

- As the engine owner, you should however be aware that FUJI ROBIN INDUSTRIES LTD. may deny you warranty coverage if your engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

- You are responsible for presenting your engine manufactured by FUJI ROBIN INDUSTRIES LTD. to a dealer, distributor or warranty station authorized by Carswell Import & Marketing Associates, Inc. (Winston-Salem, NC27115) which is U.S. importer and/or OEM of the small Off-Road/engine as soon as a problem exists.

The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact Carswell Import & Marketing Associate, Inc. at (910) 767-7700.

LIMITED WARRANTY on Emission Control Systems
- California Only -

FUJI ROBIN INDUSTRIES LTD. (Shizuoka, JAPAN) and Carswell Import & Marketing Associates Inc. (Winston-Salem, North Carolina) warrant to the owner of the 2000 and later engine that the engine (1) has been designed, built and equipped so as to conform at the time of manufacture with the applicable regulations of the California Air Resources Board, and (2) is free from defects in materials and workmanship which cause it to fail to conform with those regulations as may be applicable in the terms and conditions stated below;

A. WARRANTY COMMENCEMENT DATE

The warranty period begins on the date the engine is delivered to a first retail purchaser.

B. LENGTH OF COVERAGE

FUJI ROBIN INDUSTRIES LTD. warrants to a first retail purchaser and each subsequent purchaser that the engine is free from defects in materials and workmanship which cause the failure of a warranted emission-related part for a period of two (2) years after the date of delivery to the first retail purchaser.

C. WHAT IS COVERED:

1. REPAIR OR REPLACEMENT PARTS

Repairs and replacement of any warranted part will be performed at no charge to you by an authorized distributor or a warranty station.

You may contact the Carswell Import & Marketing Associates, Inc. (Winston-Salem, NC27115) at (910) 7700 which is the U.S. importer/OEM of the small Off-Road/engine manufactured by FUJI ROBIN INDUSTRIES LTD. to get the nearest appropriate location where your warranty repairs are performed.

2. WARRANTY PERIOD

This warranty continues for a period of two (2) years and shall apply only to the repair, replacement or adjustment of component parts which are scheduled only for regular inspection to the effect of "repair or replacement as necessary" shall be warranted for the warranty period.

Any warranted part which is scheduled for replacement as required maintenance shall be warranted for the period of time up to the first scheduled replacement point for that part.

3. DIAGNOSIS

You shall not be charged for diagnostic labor, which leads to the determination that a warranted part is defective, if the diagnostic work is performed at an authorized dealer, distributor or warranty station.

4. CONSEQUENTIAL DAMAGES

If a warranted part failed causing damage to other engine components, consult a warranty station.

THIS IS NOT COVERED

This limited warranty does not cover any part which malfunctions, fails or is damaged due to failure to follow the maintenance and operating instructions set forth in the 2000 and later Owner's Manual including:

Improper or inadequate maintenance of any warranted parts

Improper installation, adjustment or repair of the engine or of any warranted part unless performed by an authorized dealer

Failure to follow recommendations on fuel use contained in the 2000 and later Owner's Manual

Repairs performed outside of the authorized warranty service facility

Use of parts, which are not authorized by FUJI ROBIN INDUSTRIES LTD..

Use of non-standard or modified parts

This warranty does not cover any part which malfunctions, fails or is damaged due to alterations by changing, adding to or removing parts from the engine.

Charges incurred by processing warranty claims

Carswell Import & Marketing Associates, Inc., any authorized dealer, distributors and warranty station shall not be liable for any loss of use of the engine, for any alternative usage, for any damage to goods, loss of time or inconvenience.

HOW TO FILE A CLAIM

Repairs qualifying under this Limited Warranty must be performed by a dealer who sold you the engine or by any of the warranty stations authorized by Carswell Import & Marketing Associates, Inc.. In the event that any warranted part is found to be defective during the warranty period, you shall notify Carswell Import & Marketing Associates, Inc. at (910) 767-7700 and you will be given the appropriate warranty service facilities where any repair is performed.

HOW TO GET WARRANTY SERVICE

It is recommended that warranty service be performed by the authorized dealer, who sold you the engine, although warranty service will be performed by any authorized dealers, distributors and warranty stations anywhere in the United States. When warranty repair is needed, the engine must be brought to an authorized dealer, distributorship or warranty station's place of business during normal business hours. In all cases, a reasonable time, not to exceed 30 days, shall be allowed for the warranty repair to be completed after the engine is received by the authorized dealer, distributorship or warranty station.

ENGINE REPLACEMENT AND REPAIR OF EMISSION-RELATED PARTS

Only engine replacement parts approved by FUJI ROBIN INDUSTRIES LTD. should be used in the engine. For warranty maintenance or repairs on emission-related parts. If other than authorized parts are used, the warranty is void. For replacement or repair of components affecting emission control, you should assure yourself that the parts are warranted by their manufacturer to be equivalent to authorized parts in performance and durability. FUJI ROBIN INDUSTRIES LTD., however, assumes no liability under this warranty with respect to parts other than those authorized by FUJI ROBIN INDUSTRIES LTD.. The use of non-authorized replacement parts does not invalidate the warranty on other parts. The use of non-authorized parts cause damage to warranted parts.

H. PARTS COVERED UNDER THE CALIFORNIA EMISSIONS WARRANTY

- 1) Fuel Metering system
 - (i) Carburetor and internal parts
 - (ii) Air cleaner plate (including choke system)
 - (iii) Air cleaner cover
 - (iv) Air cleaner element
 - (v) Fuel Filter
- 2) Ignition System
 - (i) Spark plug
 - (ii) Flywheel magneto
 - (iii) Ignition coil
- 3) Miscellaneous Items Used in Above Systems
 - (i) Hoses and sealing gaskets, bolts, connectors, and assemblies.

I. MAINTENANCE STATEMENTS

It is your responsibility to have all scheduled inspection and maintenance services performed at the recommended in the 2000 and later Owner's Manual and to retain proof that inspection and maintenance service performed at the times when recommended.

FUJI ROBIN INDUSTRIES LTD. will not deny a warranty claim solely because you have no record of maintenance; however, FUJI ROBIN INDUSTRIES LTD. may deny a warranty claim if your failure to perform required maintenance resulted in the failure of warranted part.

The proof, which you maintain, should be given to each subsequent owner of the engine.

You are responsible for performing the scheduled maintenance described below based on the procedures specified in the 2000 and later Owner's Manual.

The scheduled maintenance below is based on the normal engine-operating schedule.

PROCEDURE	INTERVAL
1) Clean engine and check bolts and nuts. Retighten if necessary.	:Every 8 hours (daily)
2) Check and refill engine oil (4 stroke).	:Every 8 hours (refill daily up to upper line)
3) Change engine oil (4 stroke).	:Initial 20 hours and every 50 hours after
4) Check clogging of cooling air passage and cylinder fins. Remove and clean if necessary.	:Every 8 hours (daily)
5) Clean air cleaner.	:Every 8 hours (daily)
6) Check spark plug. Clean and adjust if necessary.	:Every 8 hours (daily)
7) Check muffler exhaust outlet (or port). Clean if necessary.	:Every 50 hours (monthly)
8) Check fuel filter. If clogged, replace with new one.	:Every 50 hours (monthly)
9) Adjust valve clearance, if applicable (4 stroke).	:Every 200 hours (yearly)
10) Replace fuel lines.	:Every 200 hours (yearly)
11) Overhaul engine.	:Every 200 hours (yearly)
12) Replace packings and gaskets with new ones.	:Every reassembling

FEDERAL EMISSION COMPONENT DEFECT WARRANTY

EMISSION COMPONENT DEFECT WARRANTY COVERAGE - This emission warranty is applicable in all States, except the State of California

SUZUKI ROBIN INDUSTRIES LTD. and Carswell Import & Marketing Associates, Inc., Winston-Salem, North Carolina, (herein "CARSWELL") warrant to the initial retail purchaser and each subsequent owner, that this utility equipment engine (herein "engine") was designed, built, and equipped to conform at the time of initial sale to all applicable regulations of the U.S. Environmental Protection Agency (EPA), and that the engine is free of defects in materials and workmanship which would cause this engine to fail to conform with EPA regulations during its warranty period.

For the components listed under PARTS COVERED, the dealer or service center authorized by CARSWELL will, at no cost to you, make the necessary diagnosis, repair, or replacement necessary to ensure that the engine complies with applicable U.S. EPA regulations.

EMISSION COMPONENT DEFECT WARRANTY PERIOD

The warranty period for this engine begins on the date of sale to the initial purchaser and continues for a period of 2 years.

PARTS COVERED

Listed below are the parts covered by the Emission Component Defect Warranty. Some of the parts listed below may require scheduled maintenance and are warranted up to the first scheduled replacement point for that part.

Fuel Metering System

- (i) Carburetor and internal parts
- (ii) Fuel filter, if applicable
- (iii) Throttle stopper, if applicable
- (iv) Choke System, if applicable

Air Induction System

- (i) Air cleaner plate
- (ii) Air cleaner case
- (iii) Air cleaner element

Ignition System

- (i) Spark plug
- (ii) Flywheel Magneto
- (iii) Ignition Coil

Miscellaneous Items Used in Above Systems

- (i) Fuel hoses clamps and sealing gaskets

OBTAINING WARRANTY SERVICE

To obtain warranty service, take your engine to the nearest Authorized CARSWELL, distributor or dealer. Bring your sales receipts indicating date of purchase for this engine. The dealer or service center authorized by CARSWELL will perform the necessary repairs or adjustments within a reasonable amount of time and furnish you with a copy of the repair order. All parts and accessories replaced under this warranty become the property of CARSWELL.

WHAT IS NOT COVERED

- * Conditions resulting from tampering, misuse, improper adjustment (unless they were made by the dealer or service center authorized by CARSWELL during a warranty repair), alteration, accident, use of non-recommended fuel and oil, or not performing required maintenance services.
- * The replacement parts used for required maintenance services.
- * Consequential damages such as loss of time, inconvenience, loss of use of the engine or equipment, etc.
- * Diagnosis and inspection charges that do not result in warranty-eligible service being performed.
- * Any non-authorized replacement part, or malfunction of authorized parts due to use of non-authorized parts.

OWNER'S WARRANTY RESPONSIBILITIES

As the engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. CARSWELL recommends that you retain all receipts covering maintenance on your engine, but CARSWELL can not deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the engine owner, you should however be aware that the CARSWELL may deny your warranty coverage if your engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your engine to the nearest dealer or service center authorized by CARSWELL when a problem exists.

If you have any questions regarding your warranty rights and responsibilities, you should contact the CARSWELL Warranty service department at 910-767-7700 (toll free from GA, NC, SC, TN and VA 1-800-929-1948) for the information.

THINGS YOU SHOULD KNOW ABOUT THE EMISSION CONTROL SYSTEM WARRANTY

MAINTENANCE AND REPAIRS

You are responsible for the proper use and maintenance of the engine. You should keep all receipts and maintenance records covering the performance of regular maintenance in the event questions arise. These receipts and maintenance records should be transferred to each subsequent owner of the engine. CARSWELL reserves the rights to deny warranty coverage if the engine has not been properly maintained.

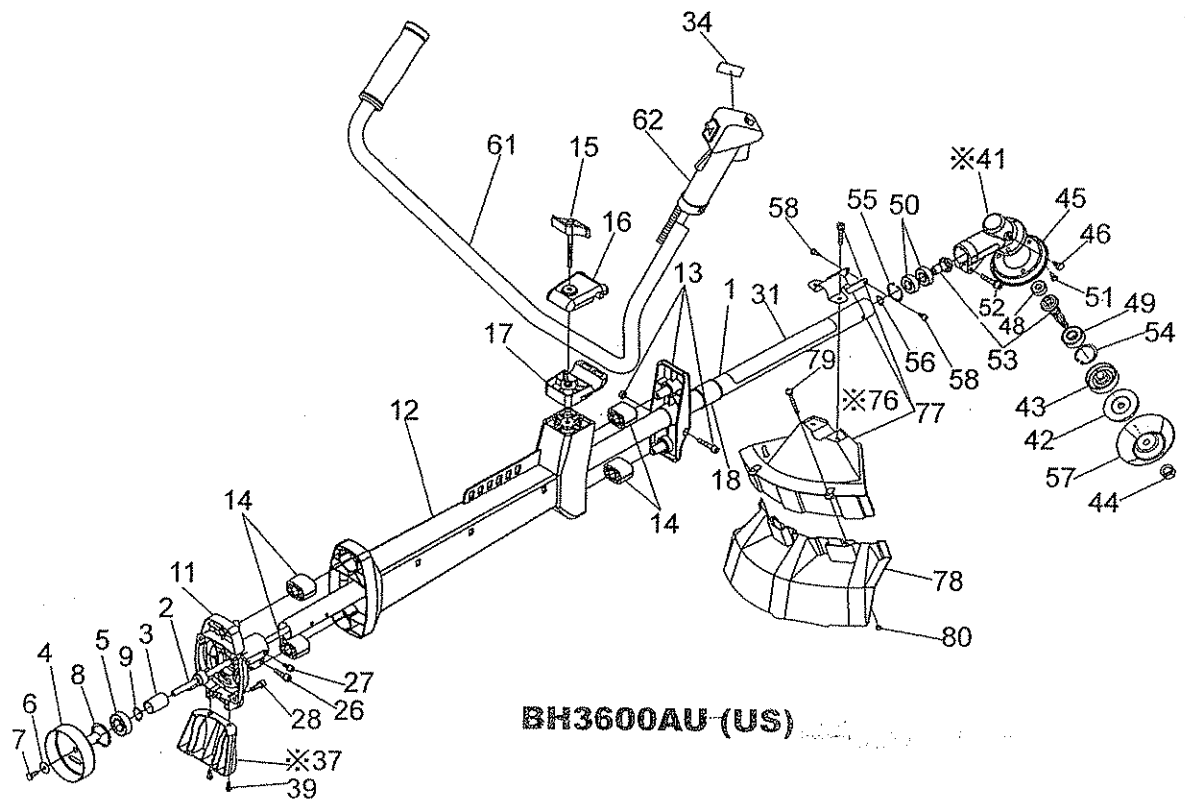
Warranty claims will not be denied, solely because of the lack of required maintenance or failure to keep maintenance records.

MAINTENANCE, REPLACEMENT OR REPAIR OF EMISSION CONTROL DEVICES AND SYSTEMS MAY BE PERFORMED BY ANY REPAIR ESTABLISHMENT OR INDIVIDUAL; HOWEVER, WARRANTY REPAIRS MUST BE PERFORMED BY A DEALER OR SERVICE CENTER AUTHORIZED BY CARSWELL. THE USE OF PARTS THAT ARE NOT EQUIVALENT IN PERFORMANCE AND DURABILITY TO AUTHORIZED PARTS MAY IMPAIR THE EFFECTIVENESS OF THE EMISSION CONTROL SYSTEM AND MAY HAVE A BEARING ON THE OUTCOME OF A WARRANTY CLAIM.

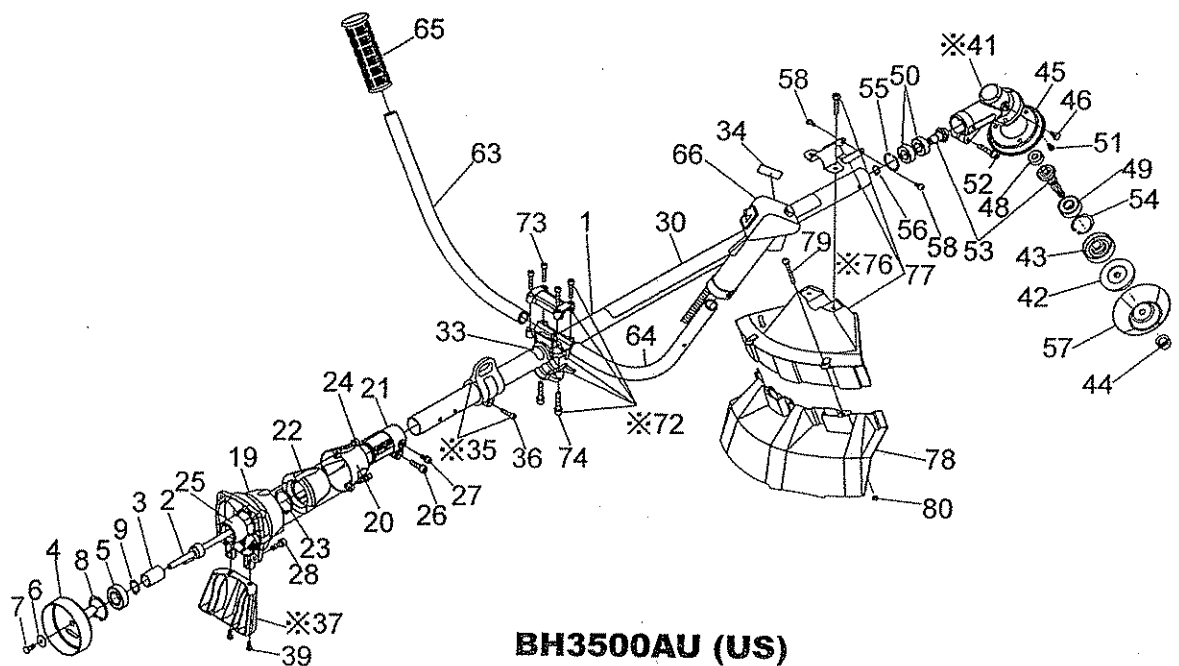
If other than the parts authorized by CARSWELL are used for maintenance replacements or for the repair of components affecting emission control, you should assure yourself that such parts are warranted by their manufacturer to be equivalent to the parts authorized by CARSWELL in their performance and durability.

HOW TO MAKE A CLAIM

All repairs qualifying under this limited warranty must be performed by a dealer or service center authorized by CARSWELL. In the event that any emission-related part is found to be defective during the warranty period, you shall notify CARSWELL at 910-767-7700 (toll free from GA, NC, SC, TN & VA 1-800-929-1948) and you will be given the appropriate warranty service facilities where the repair can be performed.



BH3600AU (US)



BH3500AU (US)

MACHINE BODY

BH3500 / 3600 PARTS LIST

(U.S. SPEC.)

KEY NO.	PART NO.	QUANTITY		DESCRIPTION	OUR PART NO.
		BH3600	BH3500		
1	6341001000	1	1	PIPE,SHAFT COMPL	
2	6341003000	1	1	SHAFT COMPL	
3	6411008000	1	1	DAMPER	
4	6342002000	1	1	DRUM,CLUTCH COMPL	
5	0600179810	1	1	BALL BEARING (6003 DDU)	
6	6202500600	1	1	WASHER	
7	6202500400	1	1	BOLT	
8	0031435000	1	1	SNAPRING,INNER (φ 35)	
9	0031517000	1	1	SNAPRING,OUTER (φ 17)	
11	6341500700-1	1		CASE,CLUTCH	
12	6344001010	1		BRACKET,HANDLE 1	
13	6344001020	1		BRACKET,HANDLE 2	
14	6344001030	4		DAMPER	
15	6344001040	1		BOLT,HANDLE	
16	6344001050	1		HOLDER,HANDLE 1	
17	6344001060	1		HOLDER,HANDLE 2	
18	6341500800	1		SPACER	
19	6341500200-1		1	CASE,CLUTCH 1	
20	6341500300		1	CASE,CLUTCH 2	
21	6341500400		1	BRACKET,PIPE	
22	6341500500		1	DAMPER,PIPE	
23	0031532000		1	SNAPRING,OUTER (φ 32)	
24	0119059950		3	SOCKET HEAD BOLT (M5×18 SW)	
25	6341500600		1	SPACER	
26	0119069750	1	1	SOCKET HEAD BOLT (M6×22 SW)	
27	0119059460	1	1	SOCKET HEAD BOLT (M5×8 SW)	
28	0119069750	4	4	SOCKET HEAD BOLT (M6×22 SW)	
30	6349015010		1	LABEL,CAUTION (BH3500 AU)	
31	6349016010	1		LABEL,CAUTION (BH3600 AU)	
33	6259514700-1		1	LABEL,CAUTION	
34	0736259950	1	1	LABEL	
* 35	6347001000-1		1	HANGER ASSY (Incl.37)	
36	0119059720		1	SOCKET HEAD BOLT (M5×20)	
* 37	5219002000	1	1	STAND SET (Incl.39)	
39	0140059480	2	2	SCREW ASSY (M5×14 W,SW)	
* 41	6343004000	1	1	CASE,GEAR ASSY (Incl.42~56)	
42	6343004010	1	1	WASHER,CLAMP	
43	6343004020	1	1	WASHER,RECEIVE	

MACHINE BODY

BH3500 / 3600 PARTS LIST

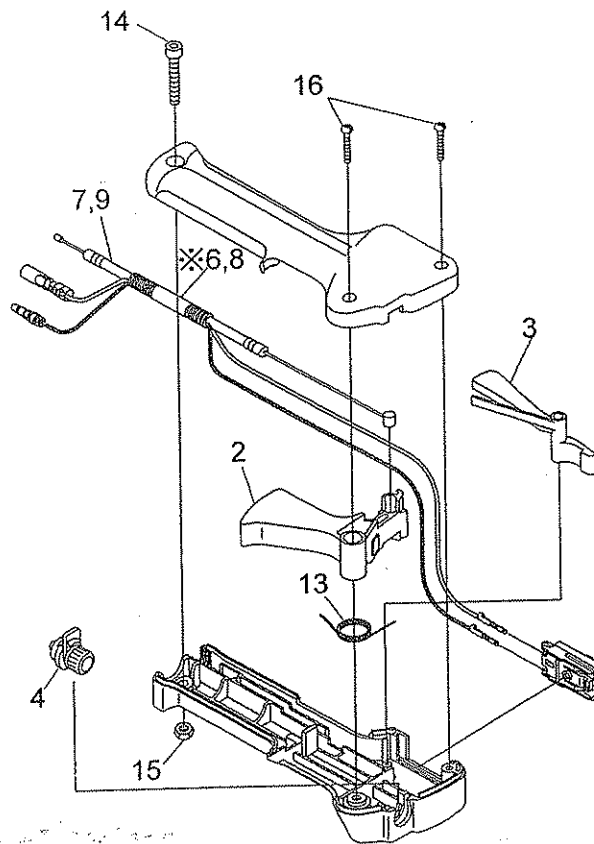
(U.S. SPEC

KEY NO.	PART NO.	QUANTITY		DESCRIPTION	OUR PART NO
		BH3600	BH3500		
44	6343004030	1	1	NUT (M10)	
45	6343004040	1	1	GUARD	
46	6343004050	1	1	BOLT,OIL	
48	6343004110	1	1	BALL BEARING (#629)	
49	0600129950	1	1	BALL BEARING (#6201 DDU)	
50	0600109940	2	2	BALL BEARING (#6000 ZZ)	
51	0043505100	3	3	SCREW ASSEMBLY (M5×10 SW)	
52	6343004160	1	1	SOCKET HEAD BOLT (M6×30 W,SW)	
53	6343005000	1	1	SHAFT,CUTTER SET	
54	0031432000	1	1	SNAPRING,INNER (φ 32)	
55	0031510000	1	1	SNAPRING,OUTER (φ 10)	
56	0031426000	1	1	SNAPRING,INNER (φ 26)	
57	6343500200	1	1	CUP	
58	0043505120	2	2	SCREW ASSEMBLY (M5×12 SW)	
61	6344002000	1		HANDLE COMPL	
62	6345003001	1		CONTROL LEVER ASSY	
63	6274500901		1	HANDLE	
64	6274501200		1	HANDLE	
65	6414501400		1	GRIP	
66	6345002001		1	CONTROL LEVER ASSY	
* 72	6344003000		1	HOLDER,HANDLE ASSY (Incl.73,74)	
73	0119059840		4	SOCKET HEAD BOLT (M5×25 SW)	
74	0119069740		2	SOCKET HEAD BOLT (M6×30 SW)	
* 76	6348001000	1	1	PROTECTOR ASSY (Incl.77~80)	
77	6348002000	1	1	PROTECTOR ASSY	
78	6258053001	1	1	PROTECTOR COMPL	
79	0043605400	2	2	SCREW ASSEMBLY (M5×40 W,SW)	
80	0021805000	2	2	NUT (M5)	

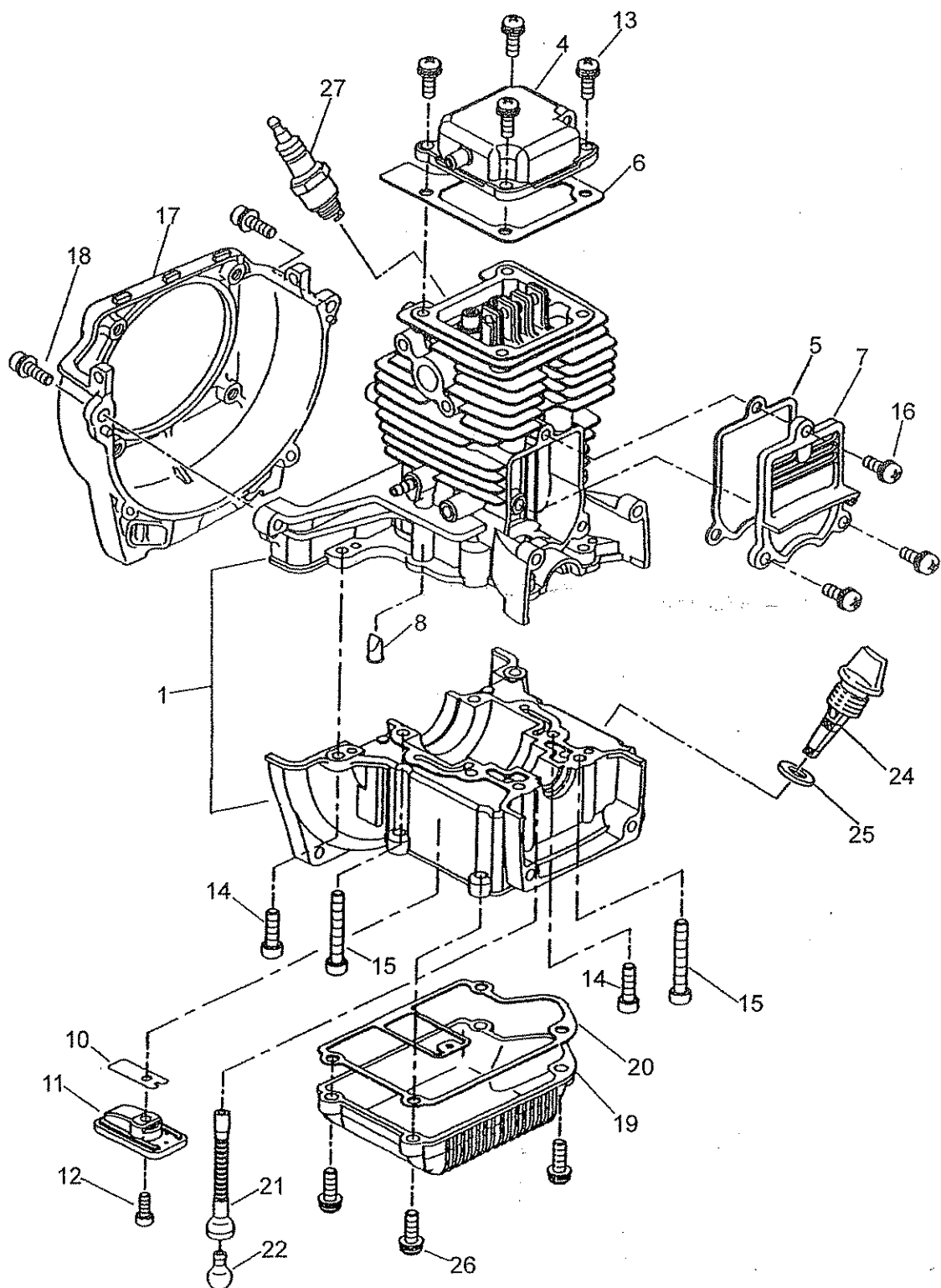
CONTROL LEVER ASS'Y

BH3500 / 3600 PARTS LIST

(U.S. SPEC.)



KEY NO.	PART NO.	QUANTITY		DESCRIPTION	OUR PART NO.
		BH3600	BH3500		
2	6215022030	1	1	LEVER	
3	6215023060	1	1	LEVER	
4	6215023050	1	1	ADJ COMPL	
*6	6345002010		1	WIRE SET (Incl.7)	
7	6345002020		1	WIRE COMPL	
*8	6345003030	1		WIRE SET (Incl.9)	
9	6345003040	1		WIRE COMPL	
13	6195006050	1	1	SPRING	
14	0119059980	1	1	SOCKET HEAD BOLT (M5×30)	
15	6215022040	1	1	NUT (M5)	
16	6195006060	2	2	TAPPING SCREW (M4×20)	



ENGINE BODY (CRANK CASE)

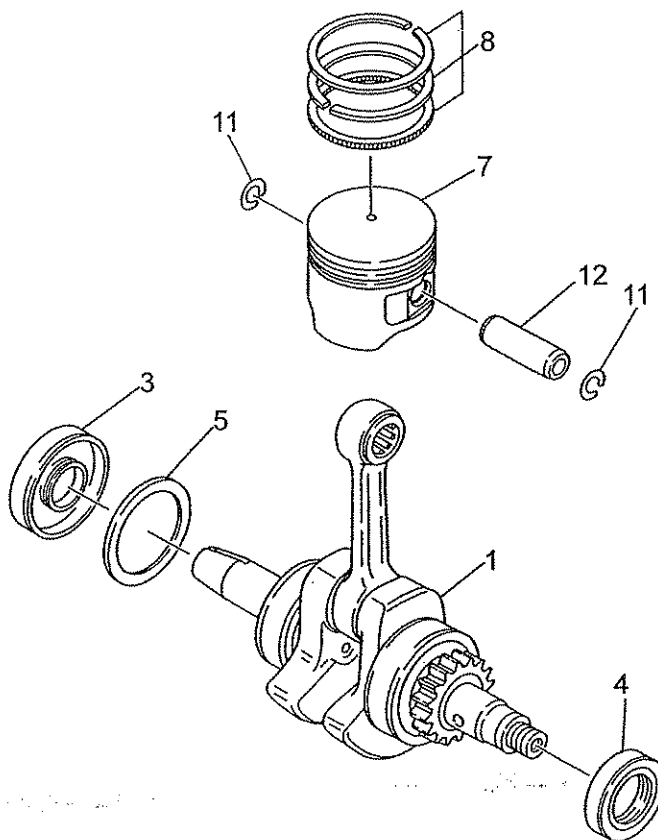
BH3500 / 3600 PARTS LIST

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BH3500 / 3600 PARTS LIST

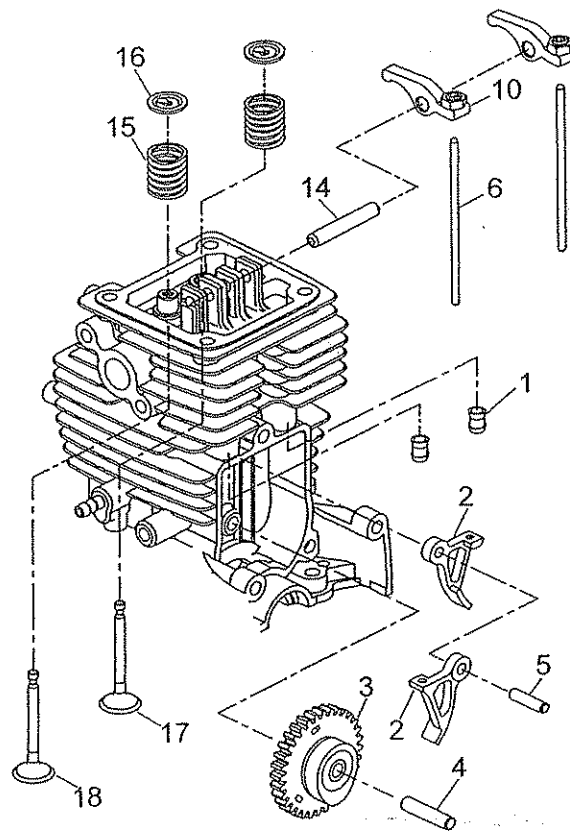
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ENGINE BODY (CAMSHAFT)

BH3500 / 3600 PARTS LIST

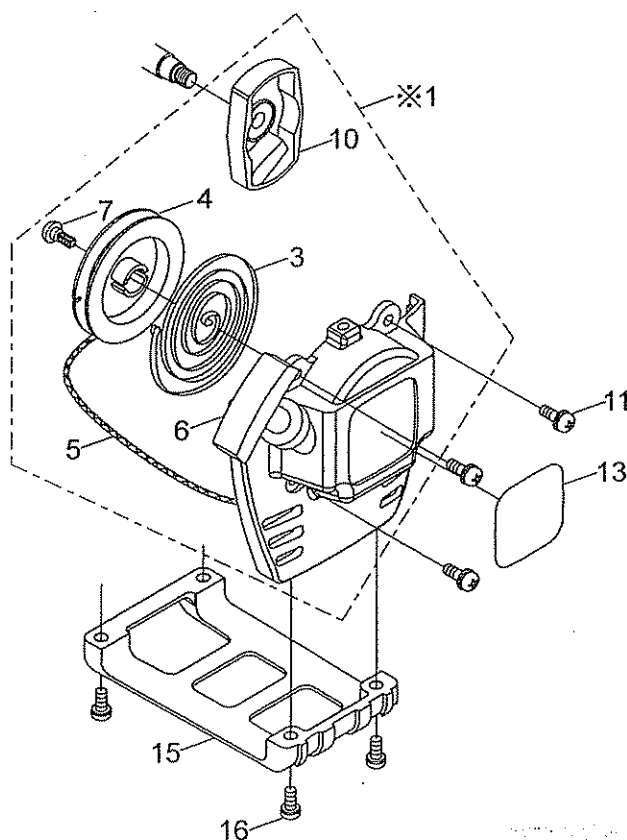
(U.S. SPEC.)



KEY NO.	PART NO.	QUANTITY		DESCRIPTION	OUR PART NO.
		BH3600	BH3500		
1	5921501400	2	2	SPACER	
2	5923500001-1	2	2	CAMLIFTER	
3	5933003000	1	1	CAMGEAR ASSY	
4	5923500501	1	1	SHAFT,CAMGEAR (φ 5×21.8)	
5	5923500600	1	1	SHAFT,CAMLIFTER (φ 4×15.8)	
6	5933500000	2	2	PUSH ROD	
10	5933002000	2	2	ROCKER ARM ASSY	
14	5933500100	1	1	ROCKER SHAFT (φ 5×31.8)	
15	5933500200	2	2	VALVE SPRING	
16	5933500300	2	2	RETAINER,SPRING	
17	5933500400	1	1	EXHAUST VALVE	
18	5933500500	1	1	INTAKE VALVE	

ENGINE BODY (RECOIL STARTER) BH3500 / 3600 PARTS LIST

(U.S. SPE

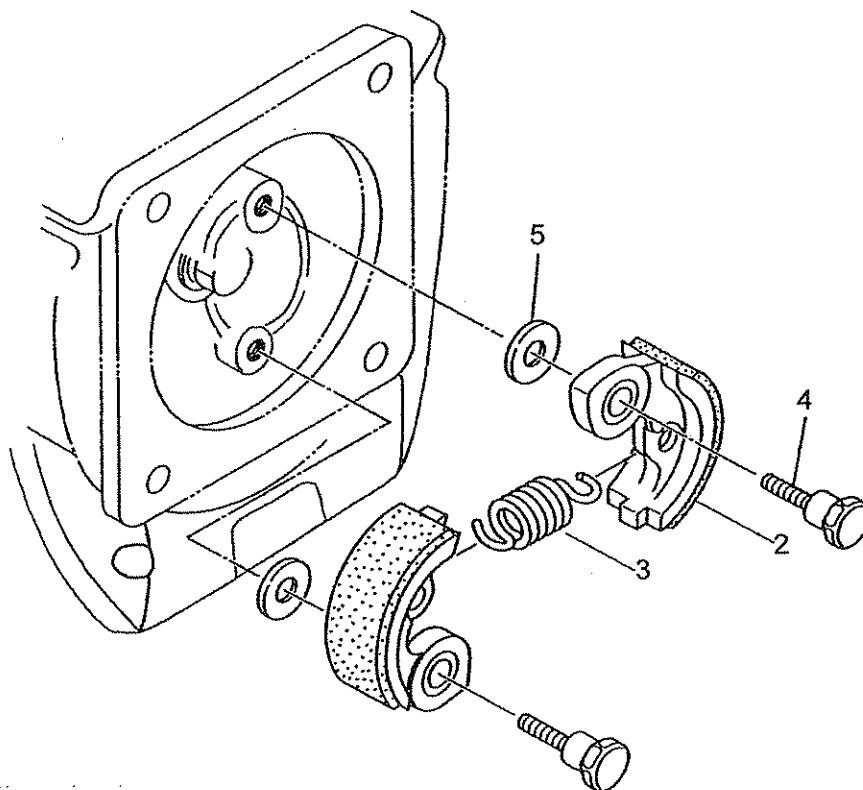


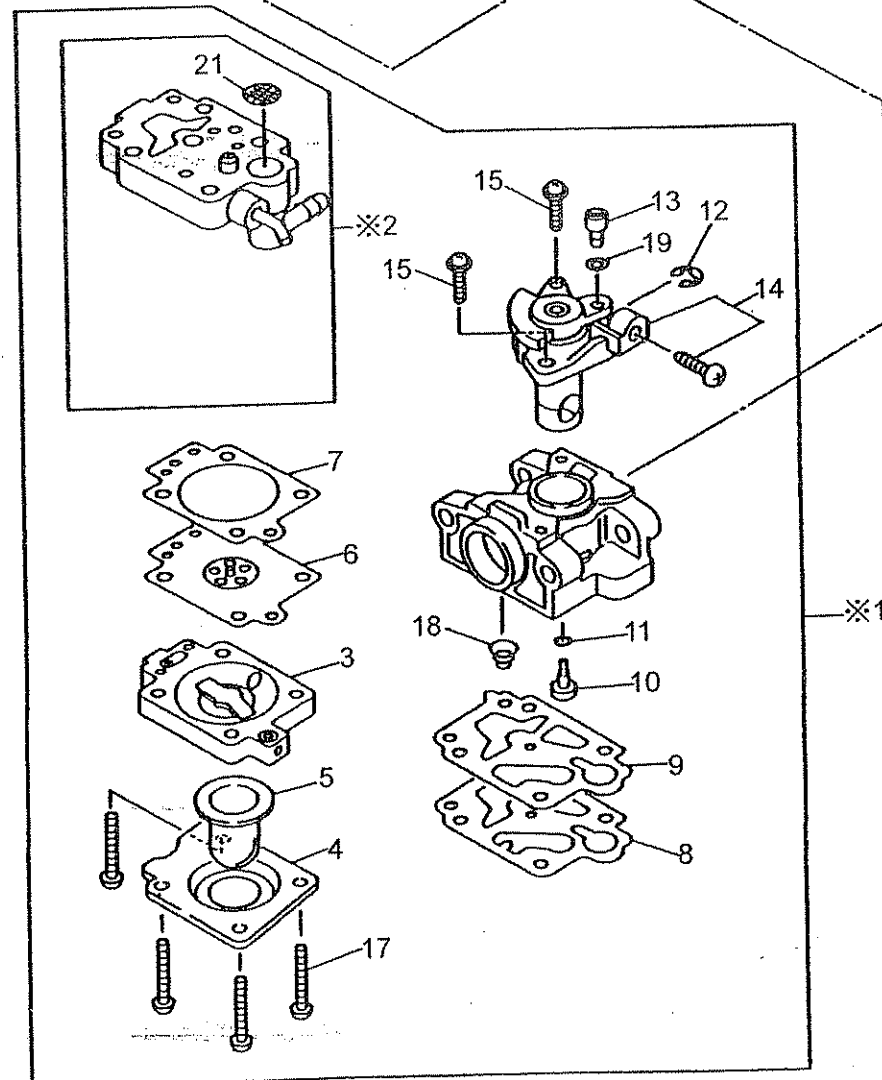
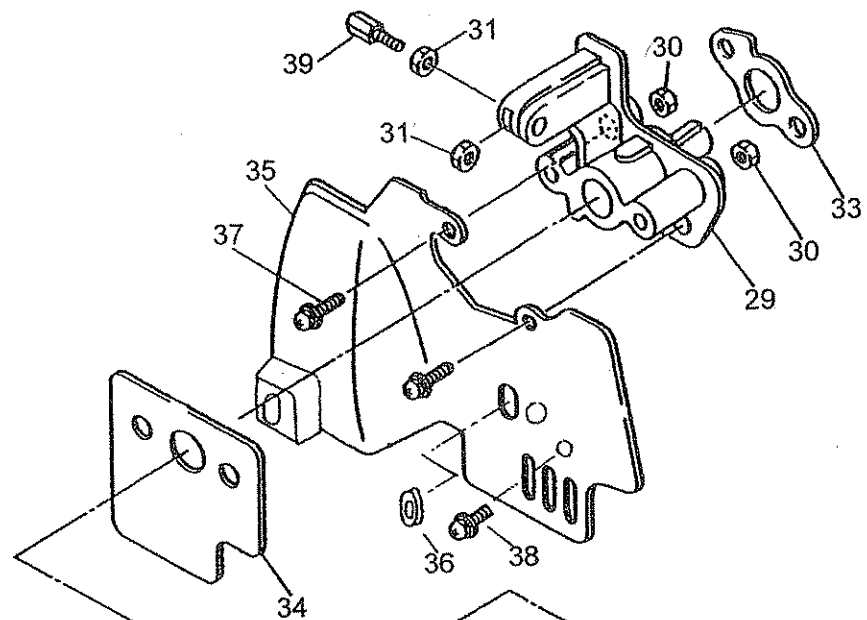
KEY NO.	PART NO.	QUANTITY		DESCRIPTION	OUR PART N
		BH3600	BH3500		
* 1	5935001000	1	1	COVER STARTER ASSY (Incl. 3~10)	
3	5025001020	1	1	SPIRAL SPRING	
4	5315022020	1	1	REEL	
5	5315022040	1	1	STARTER ROPE	
6	5215002110	1	1	STARTER KNOB	
7	5425003010	1	1	SET SCREW	
10	5315023000	1	1	PULLEY	
11	0140059480	4	4	SCREW ASSY (M5×14 W,SW)	
13	6349500000		1	LABEL,MODEL (BH3500)	
	6349500100	1		LABEL,MODEL (BH3600)	
15	6345001000	1	1	GUARD,TANK COMPL	
16	0140059480	4	4	SCREW ASSY (M5×14 W,SW)	

ENGINE BODY (CLUTCH)

BH3500 / 3600 PARTS LIST

(U.S. SPEC.)

[illegible]



ENGINE BODY (CARBURETOR)

BH3500 / 3600 PARTS LIST

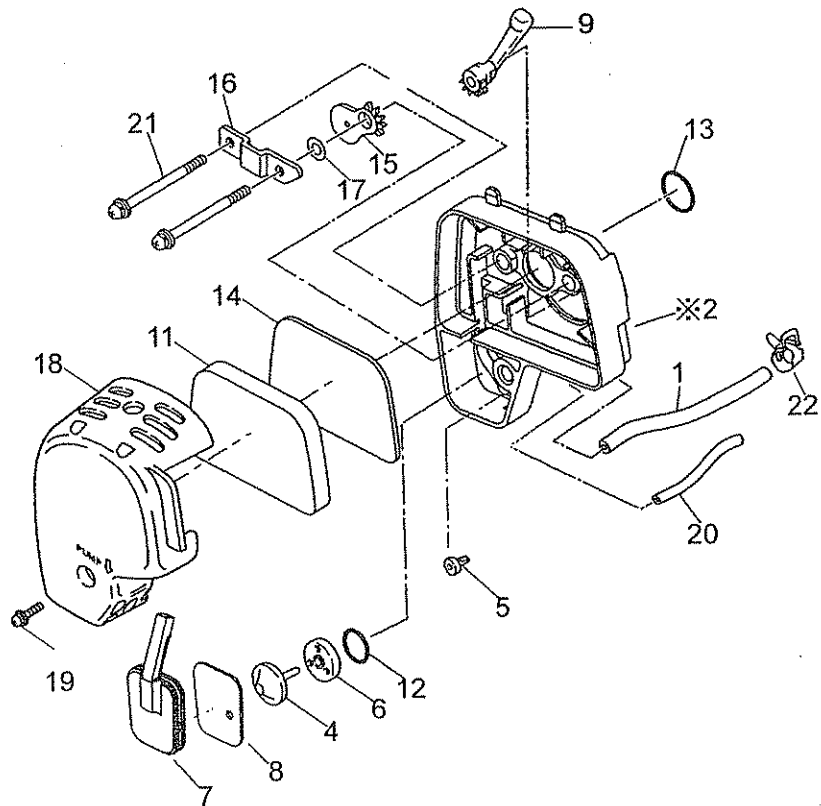
(U.S. SPEC.)

KEY NO.	PART NO.	QUANTITY		DESCRIPTION	OUR PART NO.
		BH3600	BH3500		
* 1	5936004000	1	1	CARBURETOR (Incl. * 2~19)	
* 2	5926002060	1	1	BODY ASSEMBLY-PUMP (Incl.21)	
3	5236046140	1	1	BODY ASSEMBLY-AIR PURGE	
4	5236046050	1	1	COVER-PRIMER PUMP	
5	5246001150	1	1	PUMP-PRIMER	
6	5926008010	1	1	DIAPHRAGM ASSY-METERING	
7	5236046040	1	1	GASKET-METERING DIAPHRAGM	
8	5246001040	1	1	DIAPHRAGM-PUMP	
9	5926002040	1	1	GASKET-PUMP	
10	5936002010	1	1	JET (#39.0)	
11	5246001010	1	1	RING-"O"	
12	5316005120	1	1	RING-SPRING RETAINING	
13	5236018040	1	1	SWIVEL	
14	5936002020	1	1	VALVE ASSEMBLY-THROTTLE	
15	5206008030	2	2	SCREW-THROTTLE COLLAR	
17	5236046010	4	4	SCREW-PUMP COVER	
18	5926002020	1	1	SPRING-PUMP	
19	5426005030	1	1	WASHER	
21	5016004010	1	1	SCREEN-INLET	
29	5923005001	1	1	INSULATOR COMPL (Incl.30,31)	
30	0170059980	2	2	NUT (M5)	
31	0022706000	2	2	NUT (M6)	
33	5923501801	1	1	GASKET,INSULATOR	
34	5923501900	1	1	GASKET,CARBURETOR	
35	5933500600	1	1	INSULATOR,CARBURETOR	
36	5257500300	1	1	GROMMET	
37	0043605180	2	2	SCREW ASSEMBLY (M5×18 W,SW)	
38	0043605100	1	1	SCREW ASSEMBLY (M5×10 W,SW)	
39	0149069960	1	1	SCREW CABLE ADJ	

AIR CLEANER (AIR CLEANER)

BH3500 / 3600 PARTS LIST

(U.S. SPE

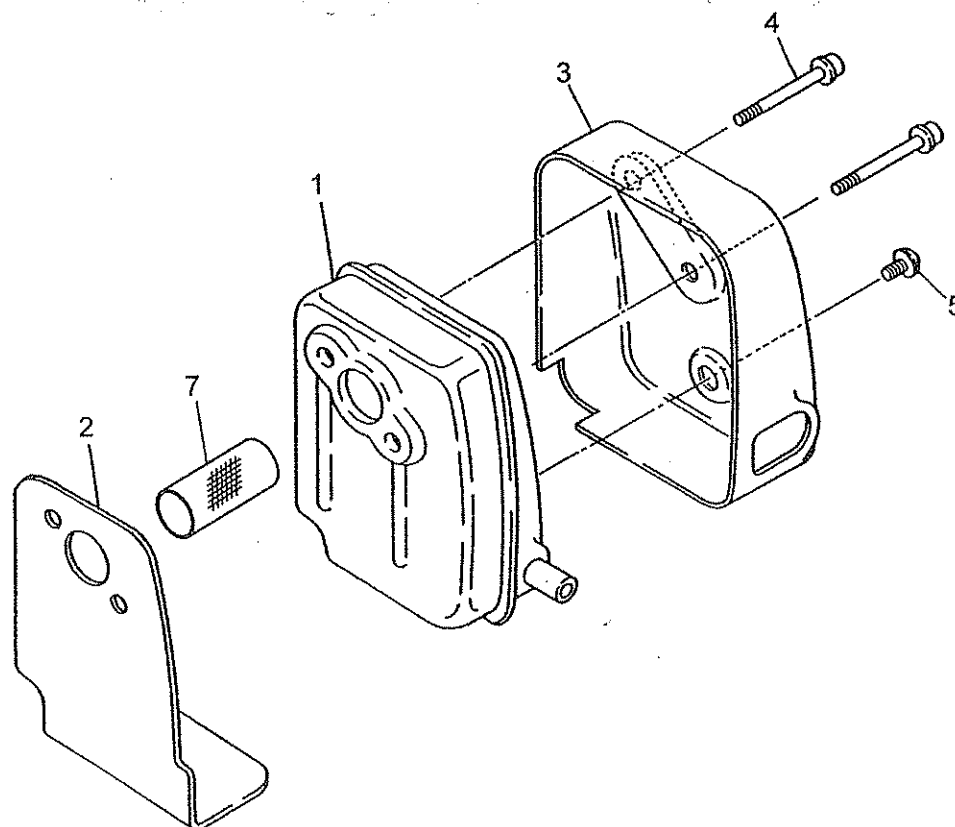


KEY NO.	PART NO.	QUANTITY		DESCRIPTION	OUR PART N
		BH3600	BH3500		
1	5931500900	1	1	PIPE,BREATHER ($\phi 8.5 \times \phi 4.5 \times 160L$)	
* 2	5933001000	1	1	PLATE,CLEANER ASSY (Incl.4~9,12,13)	
4	5316500701	1	1	CHECK VALVE	
5	5923502400	1	1	CHECK VALVE(1) (VA3143)	
6	5923502500	1	1	PLATE,CHECK VALVE	
7	5933501600	1	1	PLATE,SEPALATOR	
8	5923503500	1	1	GASKET,SEPALATOR	
9	5923502200-1	1	1	LEVER,CHOKE	
11	5933501200-1	1	1	ELEMENT,AIR CLEANER	
12	0240139970	1	1	O RING (P14)	
13	0240159990	1	1	O RING (P15)	
14	5933500900	1	1	ELEMENT,AIR CLEANER	
15	5923502301	1	1	PLATE,CHOKE	
16	5923502600	1	1	PLATE	
17	0213069990	1	1	GASKET	
18	5933500800	1	1	COVER,AIR CLEANER	
19	0140059480	1	1	SCREW ASSY (M5 \times 14 W,SW)	
20	5923503001	1	1	PIPE ($\phi 7 \times \phi 3 \times 60L$)	
21	5923503100	2	2	SCREW (M5 \times 68 W,SW(SUS))	
22	0561080010	1	1	HOSE CLAMP	

ENGINE BODY (MUFFLER)

BH3500 / 3600 PARTS LIST

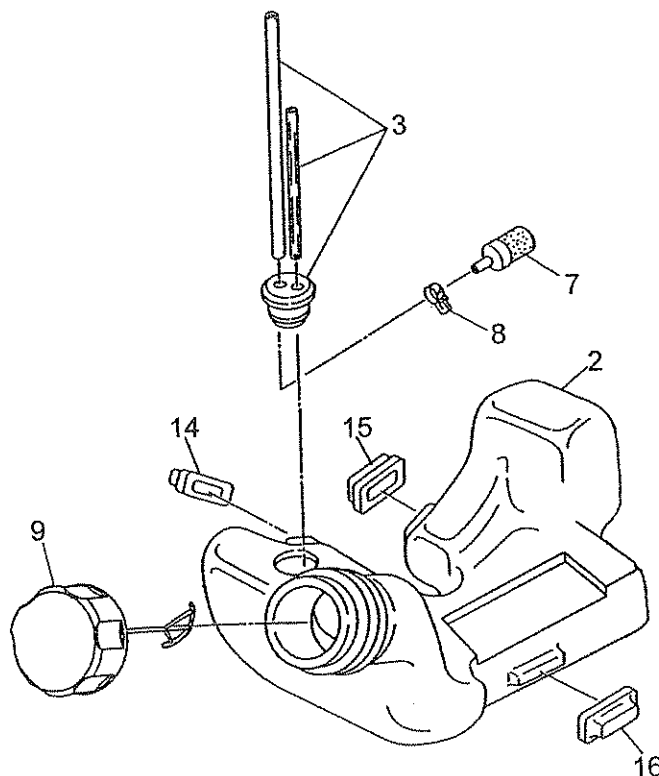
(U.S. SPEC.)

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ENGINE BODY (FUEL TANK)

BH3500 / 3600 PARTS LIST

(U.S. SPEC.)

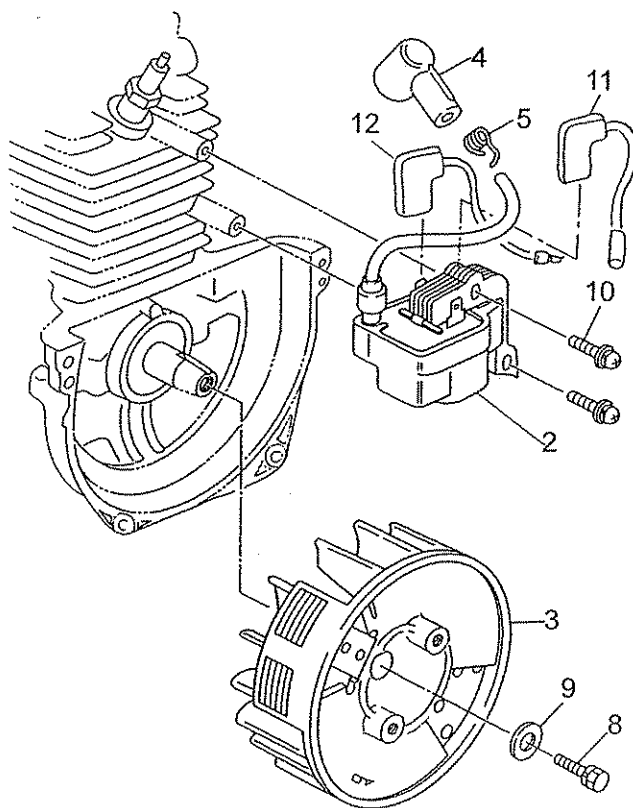


KEY NO.	PART NO.	QUANTITY		DESCRIPTION	OUR PART NO.
		BH3600	BH3500		
2	5936500200	1	1	TANK,FUEL	
3	5936003000	1	1	TUBE	
7	5236503900	1	1	FILTER	
8	0561059990	1	1	HOSE CLAMP	
9	5926013000	1	1	CAP,FUEL TANK ASSY	
14	5036500200-1	1	1	PLATE	
15	5036500300-1	1	1	PLATE	
16	5196500301	1	1	DAMPER	

ENGINE BODY (FLYWHEEL) BH3500 / 3600 PARTS LIST

BH3500 / 3600 PARTS LIST (U.S. SPEC.)

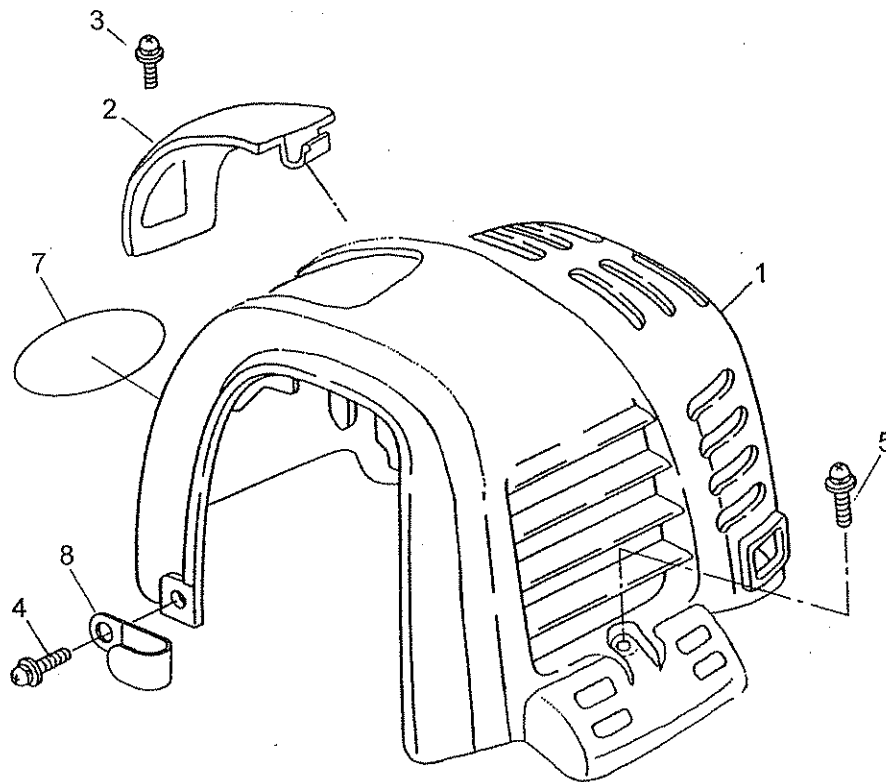
(U.S. SPEC.)

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ENGINE BODY (COVER)

BH3500 / 3600 PARTS LIST

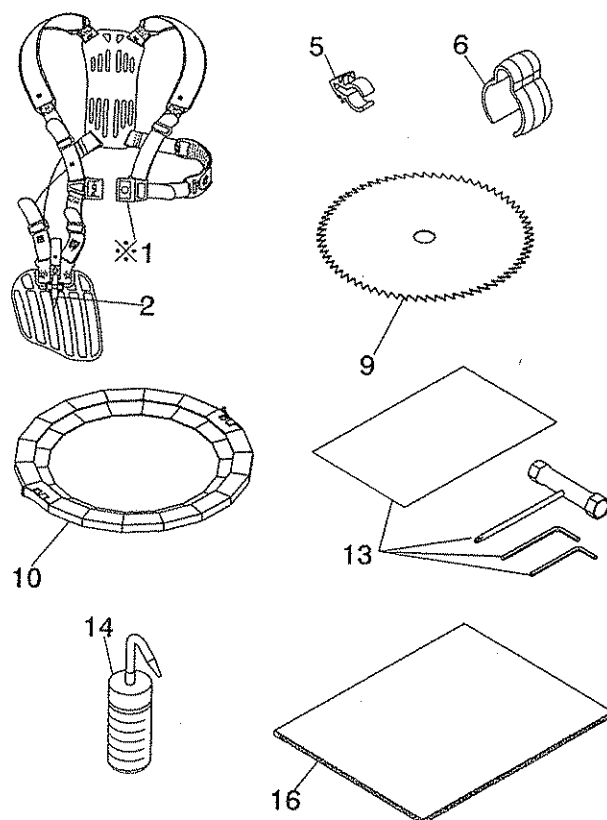
(U.S. SPEC.)

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STANDARD ACCESSARY

BH3500 / 3600 PARTS LIST

(U.S. SPEC.)



KEY NO.	PART NO.	QUANTITY		DESCRIPTION	OUR PART NO.
		BH3600	BH3500		
* 1	6347003001	1	1	BAND ASSY (Incl.2)	
2	6347004000	1	1	HOOK	
5	6344001110	3		CLAMP,WIRE	
6	6351500700		2	CLAMP,WIRE	
9	6408501801-1	1	1	CUTTER (255×70)	
10	6418500701	1	1	COVER,CUTTER	
13	6349007000	1	1	TOOL	
14	0722105000	1	1	BOTTLE,OIL	
16	6349502800	1	1	INSTRUCTION MANUAL	

LIMITED TWO YEAR WARRANTY

Carswell Import & Marketing Associates, Inc. (hereafter CIMA), sales agent for Fuji Robin Industries, Ltd. warrants each new Robin brush cutter for twenty-four (24) months according to the following terms.

This warranty extends to the original retail purchaser only and commences on the date of original retail purchase.

Any part of Robin brush cutter supplied by CIMA and found in the reasonable judgment of an Authorized Robin Service Center to be defective in material or workmanship will be repaired by an Authorized Robin Service Dealer without charge for parts and labor.

The Robin brush cutter including any defective part must be returned to an Authorized Robin Service Dealer within the warranty period. The expense of delivering the Robin brush cutter to the dealer for warranty work and the expense of returning it back to the owner after repair or replacement will be paid for by the owner.

CIMA's responsibility in respect to claims is limited to making the required repairs or replacements and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Robin brush cutter. Proof of purchase will be required by the dealer to substantiate any warranty claim. All warranty work should be performed by an Authorized Robin Service Dealer.

This warranty is limited to ninety (90) days from the date of original retail purchase for any Robin brush cutter that is used for rental or commercial purposes, or any other income-producing purpose.

This warranty does not cover any Robin brush cutter that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the Robin Operator's Manual. The warranty does not apply to any damage to the Robin brush cutter that is the result of improper maintenance or to any Robin brush cutter or parts that have not been assembled or installed as specified in the Robin Operator's Manual. The warranty does not cover any Robin brush cutter that has been altered or modified so as to adversely affect the product's operation, performance or durability or that has been altered or modified so as to change its intended use. In addition, the warranty does not extend to repairs made necessary by normal wear, or by the use of parts or accessories which are either incompatible with the Robin brush cutter or adversely affect its operation, performance or durability.

Robin reserves the right to change or improve the design of any Robin brush cutter without assuming any obligation to modify any brush cutter previously manufactured.

ALL IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE TWENTY-FOUR (24) MONTHS WARRANTY PERIOD OR NINETY (90) DAYS FOR BRUSH CUTTERS USED FOR ANY INCOME PRODUCING PURPOSE. ACCORDINGLY, ANY SUCH IMPLIED WARRANTIES INCLUDING MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, ARE DISCLAIMED IN THEIR ENTIRETY AFTER THE EXPIRATION OF THE APPROPRIATE TWENTY-FOUR (24) MONTHS OR NINETY (90) DAYS WARRANTY PERIOD.

CIMA'S OBLIGATION UNDER THIS WARRANTY, IS STRICTLY AND EXCLUSIVELY LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS, AND CIMA DOES NOT ASSUME OR AUTHORIZE ANYONE TO ASSUME FOR THEM ANY OTHER OBLIGATION. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

CIMA ASSUMES NO RESPONSIBILITY FOR INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, EXPENSE FOR GASOLINE, EXPENSE OF RETURNING THE ROBIN BRUSH CUTTER TO AUTHORIZED SERVICE DEALER AND EXPENSE OF DELIVERING IT BACK TO THE OWNER, MECHANIC'S TRAVEL TIME, TELEPHONE OR TELEGRAM CHARGES, RENTAL OF A LIKE PRODUCT DURING THE TIME WARRANTY SERVICE IS BEING PERFORMED, TRAVEL, LOSS OR DAMAGE TO PERSONAL PROPERTY, LOSS OF REVENUE, LOSS OF THE BRUSH CUTTER, LOSS OF TIME, OR INCONVENIENCE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This warranty applies to Robin brush cutter sold by CIMA in the United States. To validate this warranty original purchaser must complete the attached Warranty Registration Form and return it within ten (10) days of purchase.

CARSWELL IMPORT
AND MARKETING ASSOCIATES, INC.
WINSTON-SALEM, NORTH CAROLINA 27115

Fuji Robin Industries, Ltd.
Numazu, Shizuoka, Japan

WARRANTY SERVICE

any service can be performed by an Authorized Robin Service Dealer regardless of whether the consumer purchased the Robin product originally from that dealer. However, we recommend you first contact the original dealer who sold you the product. Remember, it is your responsibility to deliver your Robin product with proof of purchase to the dealer within the warranty period, and all work will be performed by an Authorized Robin Service Dealer.

Parts and Service not covered by Warranty

Service requirements occurring during the warranty period such as carburetor or ignition adjustment.

Service over and above repair or replacement of defective parts.

Service or maintenance due to normal wear, improper maintenance, misuse, neglect, negligence, accident, also alterations or modifications which adversely affect product's performance, durability, or change their intended use.

Repairs or maintenance made necessary due to use of parts or accessories which are not compatible with Robin products or adversely affect its operation, performance, or durability.

Products not operated or maintained in accordance with the instruction Manual.

Regular cleaning, lubrication, adjustments, or replacement of such items as spark plugs, filters, ignition points, etc.

Expense of delivering the product to an Authorized Service Dealer or of returning such products, or mechanics travel time, or cost of any rental of a like product during the period warranty service is being performed.

Warranty applies only to original retail purchaser.

Owner's Obligation and Responsibility

It is the responsibility of the owner to provide for normal maintenance service and replacement of service items and to maintain all components in proper adjustment. These are not considered defects in material or workmanship. Individual operation and application determine the need for normal maintenance service.

Robin Warranty Registration

Owner's Name _____

Address _____

City State Zip

Dealer's Name _____

Address _____

City State Zip

Date of Purchase _____

Model No. _____ Serial No. _____

This Registration Form must be completed and returned within

(Detach and Mail)