

Robin

Brush Cutter

NB351

NB411

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!



FUJIROBIN INDUSTRIES LTD.

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



Take Particular Care and Attention



Forbidden



Keep distance



Flying object hazard



No smoking



No naked flame



Protective gloves must be worn



Kickback



Keep the area of operation clear of all persons and pets



Wear eye and ear protection (for grass trimmer)



Wear protective helmet, eye and ear protection (for Brush Cutter only)



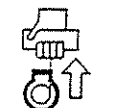
Do not use metal blades (for grass trimmer only)



Top permissible tool speed



Fuel and oil mixture



Engine-Manual start



Emergency stop



ON/START

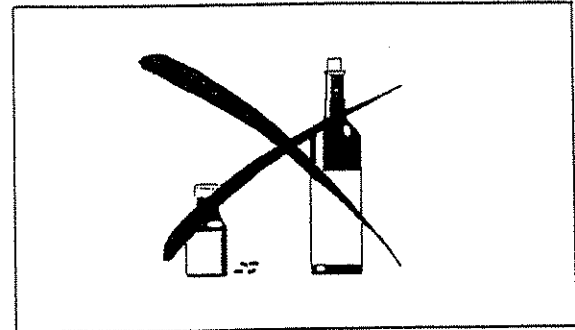
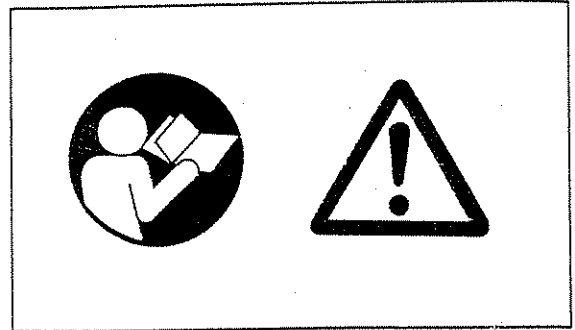


OFF/STOP

SAFETY INSTRUCTIONS

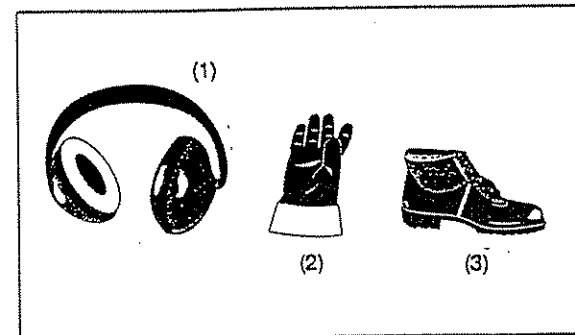
General instructions

- To ensure correct operation, the 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.
- First users should ask the dealer for basic instructions to familiarize oneself with the handling of an engine powered cutter.
- 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.



Personal protective equipment

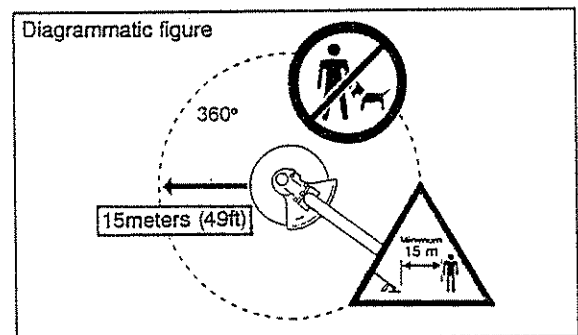
- The clothing worn should be functional and appropriate, i.e. it should be tight-fitting but not cause hindrance. Do not wear either jewelry or clothing which could become entangled with bushes or shrubs.
- In order to avoid either head-, eye-, hand- or foot injuries as well to protect your hearing 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.
- Wear adequate noise protection equipment to avoid hearing impairment (ear muffs (1), ear plugs etc.).
- Special gloves (2) 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 (3) with a non-slip sole. This protects against injuries and ensures a good footing.



Starting up the brush cutter

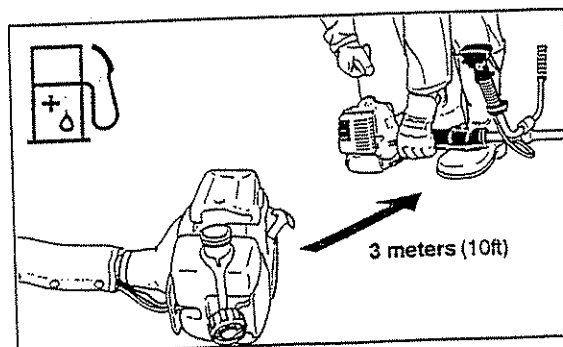
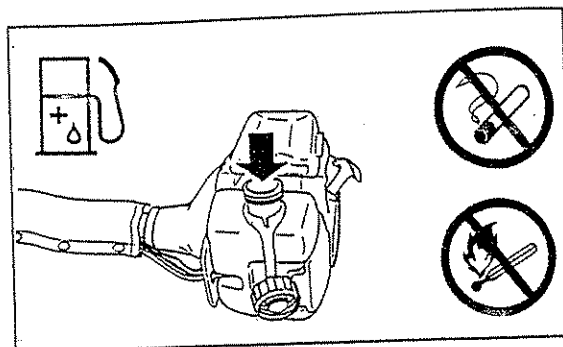
- Please make sure that there are no children or other people within a working range of 15 meters (49ft); also pay attention to any animals in the working vicinity.
- Before use always check that the brush cutter is safe for operation:
 - Check the security of the cutting tool, the control lever for easy action and check for proper functioning of the control lever lock.
 - Check with your dealer for adjustment if in doubt.
- 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



Refueling

- 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.
- Carefully tighten and does not leak the fuel tank cap. Change location to start the engine (at least 3 meters (10ft) away from the place of refuelling).
- Never refuel in closed rooms. Fuel vapors accumulate at ground level (risk of explosions).
- Only transport and store fuel in licensed containers. Make sure the fuel stored is not accessible to children.



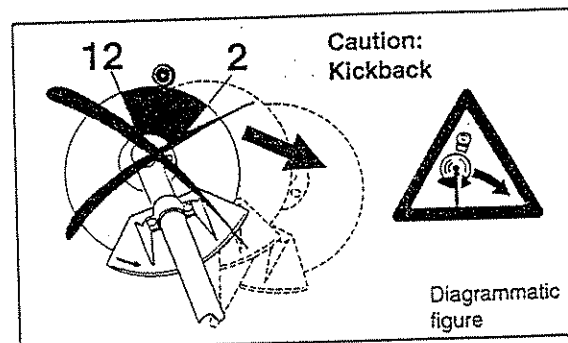
Method of operation

- 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 shoulder 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

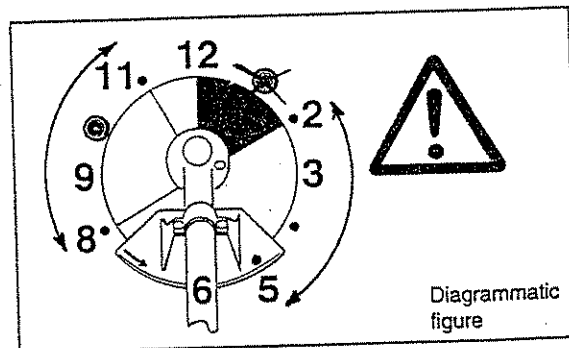
- When operating the brush cutter, uncontrolled kickback may occur.
- This is particularly the case when attempting to cut within a blade segment between 12 and 2 o'clock.
- Never apply the brush cutter within a segment between 12 and 2 o'clock.
- Never apply this segment of the brush cutter blade to 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.



Cutting Tools

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

Nylon cutting head:

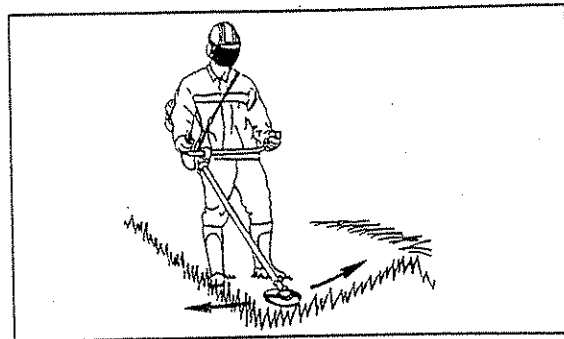
Exclusively designed for cutting along walls, fences, grass edges, trees, posts etc. (supplementing the grass mower). Perform this cutting work by swinging the grass trimmer evenly in half-circles from left to right.

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

For cutting thick materials, such as weed, high grass, bushes, shrubs, underwood, 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.
- Turn off the engine and remove spark plug connector when replacing or sharpening cutting tools, and also when cleaning the cutter or cutting tool.

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 ROBIN.

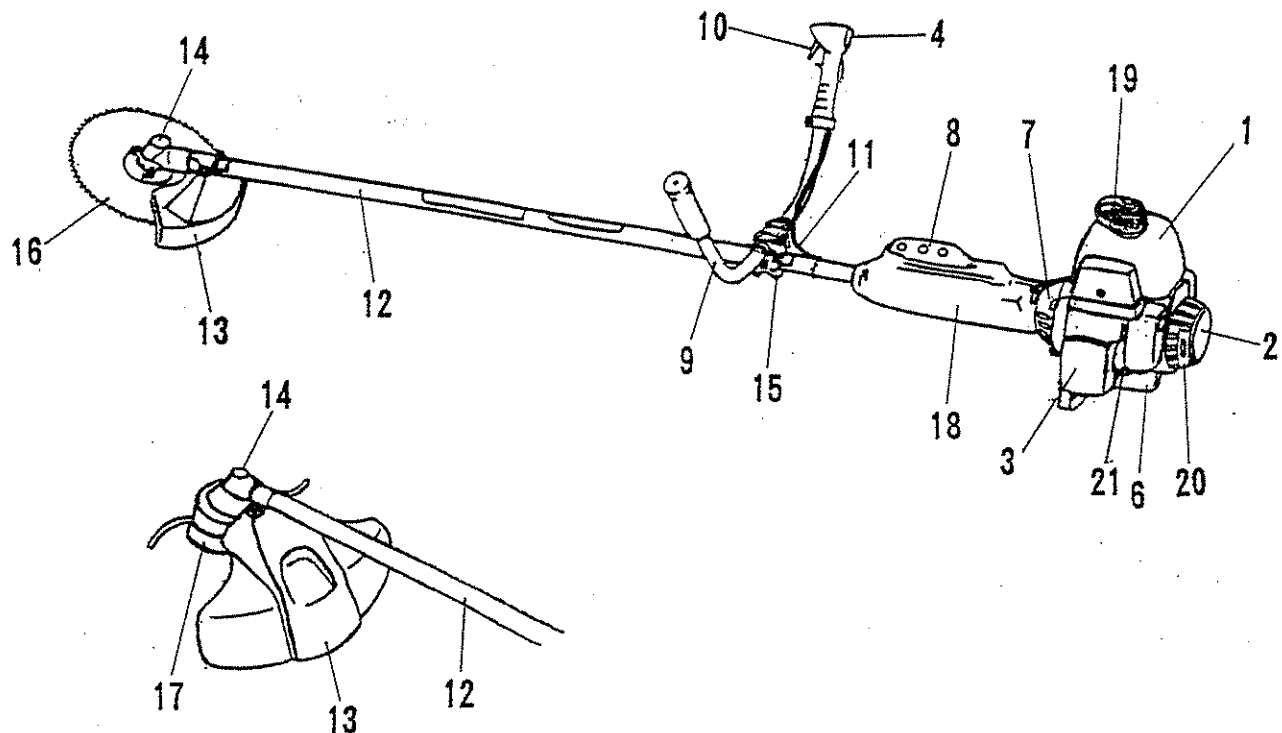
Use of non-approved accessories and tools means increased risk of accidents. ROBIN will not accept any liability for accidents or damage caused by the use of non-approved cutting tools and fixing devices of cutting tools, or accessories.

TECHNICAL DATA NB351,NB411

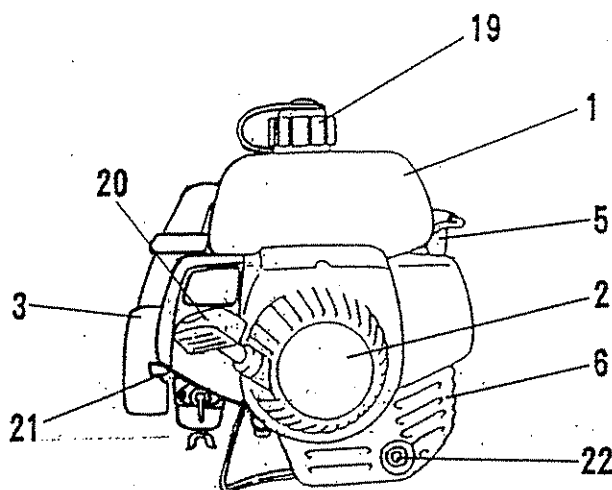
Model		NB351	NB411
		U handle	U handle
Dimensions:length x width x height (without cutting blade)	mm	1690x585x430 (67"x23"x17")	1690x585x430 (67"x23"x17")
Mass (without plastic guard and cutting blade)	kg	7.1 (15.7 lb)	7.3 (16.1 lb)
Volume(fuel tank)	cm ³	960	960
Engine displacement	cm ³	34.4	40.2
Maximum engine performance	kw	1.25 at 7000 l/min.	1.47 at 7000 l/min
Engine speed at recommended max.spindle speed	l/min	8500	8500
Maximum spindle speed(corresponding)	l/min	7000	7000
Fuel consumption	kg/h	0.78 (27.5 oz/h)	0.93 (32.8 oz/h)
Specific fuel consumption	g/kwh	626 (22.1oz/kwh)	631 (22.3 oz/kwh)
Idling speed	l/min	2600	2600
Clutch engagement speed	l/min	3600	3600
Carburetor(Diaphragm-carburetor)	type	MIKUNI VM	MIKUNI VM
Ignition system	type	Solid state ignition	Solid state ignition
Spark plug	type	NGK BPM7A	NGK BPM7A
Electrode gap	mm	0.6-0.7	0.6-0.7
Fuel		Mixed gas (gasoline: two-stroke oil = 25:1)	
Gear ratio		14/17	14/17

1) The data takes equally into account the idling and racing or wide open throttle speed operating modes.

DESIGNATION OF PARTS



NB351/411 Brush Cutter



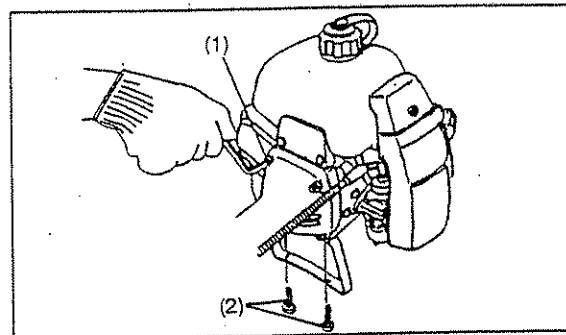
GB	DESIGNATION OF PARTS
1	Fuel Tank
2	Rewind Starter
3	Air Cleaner
4	I - O Switch (on/off)
5	Spark Plug
6	Exhaust Muffler
7	Clutch Case
8	Hanger
9	Handle
10	Throttle Lever
11	Control Cable
12	Shaft
13	Protector
14	Gear Case
15	Handle Holder
16	Cutter Blade
17	Nylon Cutting Head
18	Waist Pad
19	Fuel Filler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

ASSEMBLY OF ENGINE AND SHAFT

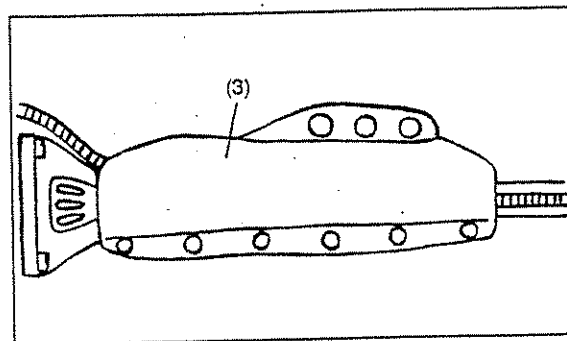
CAUTION: Before doing any work on the brush cutter, always switch off the motor and pull the spark plug connector off the spark plug.
Always wear protective gloves!

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 M6x18(1). At this time, fasten also the earth terminal of the stop cord to the engine.
- Attach stand to engine with two bolts M6x14 (2).

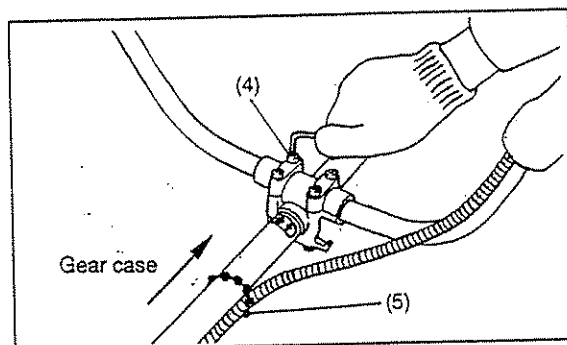


- Mount the waist pad (3). When the waist pad is mounted, be sure to confirm that the wires do not move horizontally.
- Avoid any tendency of the control cable to loop at the handle bar.
- The purpose of the detent lock is to prevent the engine from rotating relative to the shaft while operating the starter or transporting the equipment from place to place.
- The detent should be unlocked while the unit is being used and locked while the unit is being transported.



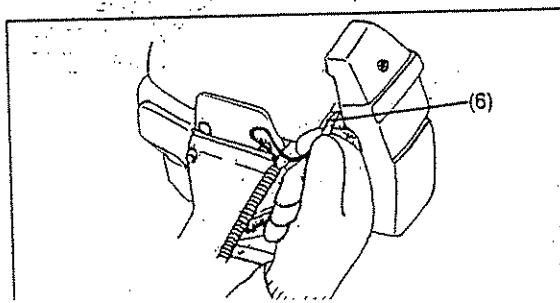
MOUNTING OF HANDLE

- Fasten the handle to the drive shaft with four bolts M5x 25 (4). Fit the control cable (together with the earth cord) to the handle with a clip (5).



ASSEMBLY OF IGNITION WIRE

- Connect the female and male bullet connectors (6) from throttle assembly to the male and female bullet connectors coming from engine.



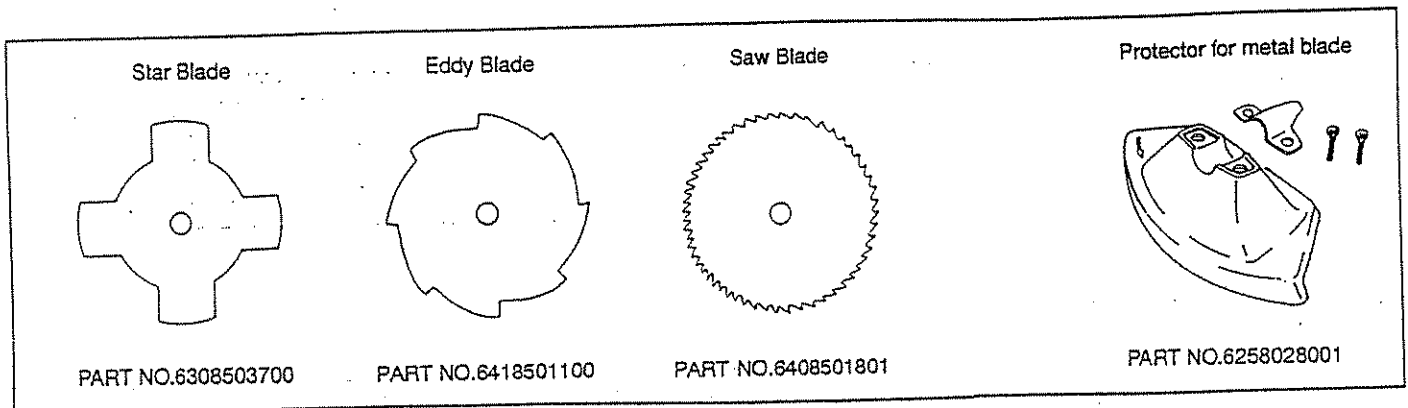
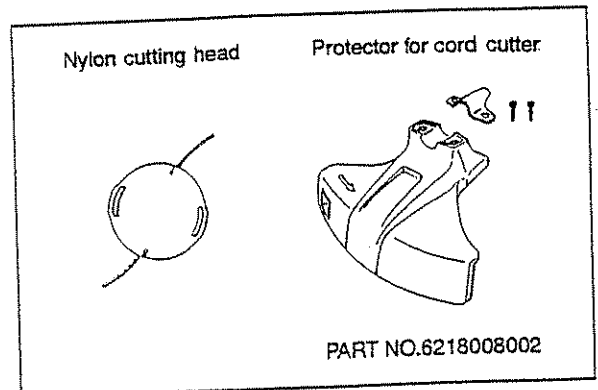
MOUNTING OF PROTECTOR

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 blade 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 (10-1/32"). Never use any blades surpassing 255mm (10-1/32") in outside diameter.

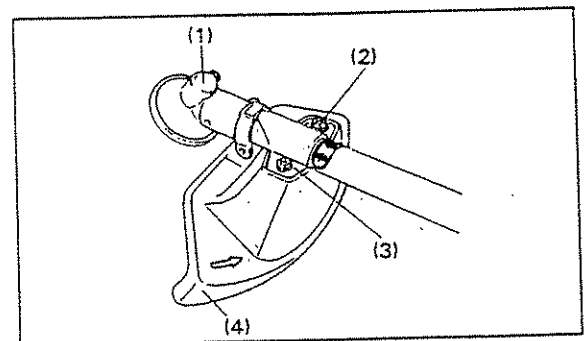


CAUTION: The appropriate protector must always be installed, for your own safety and in order to comply with accident-prevention regulations.

Operation of the equipment without the guard being in place is not permitted.



- Install the clamp(3) on the shaft so that the projection of the clamp (3) is inserted into the opening between the gear case (1) and the shaft. Secure the protector (4) with the installation bolts M6x30 (2).

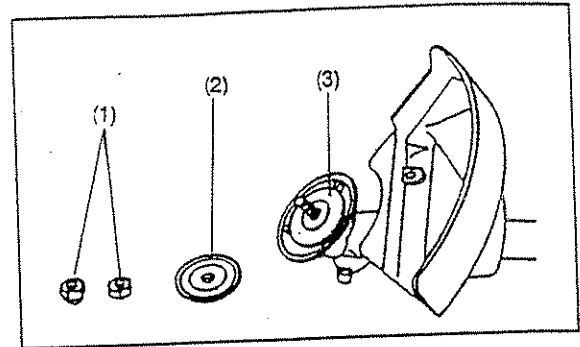


MOUNTING OF CUTTER BLADE OR NYLON CUTTING HEAD

Turn the machine upside down, and you can replace the cutter blade easily.



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

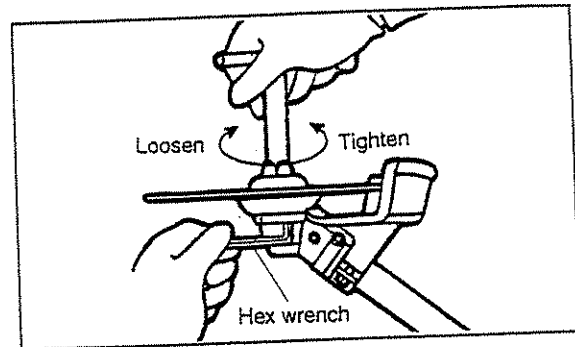


With the hex wrench still in place.

- Mount the cutter blade onto the shaft so that the guide of the receiver washer (3) fits in the arbor hole in the cutter blade. Install the clamp washer (2) and secure the cutter blade with the 2 nuts (1).

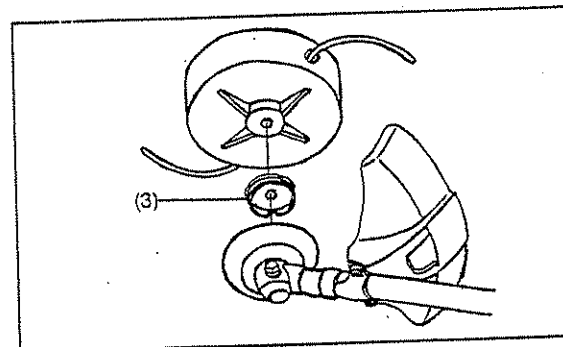
[Tightening torque: 280 - 480 kg-cm]

NOTE: Always wear gloves when handling the cutter blade.

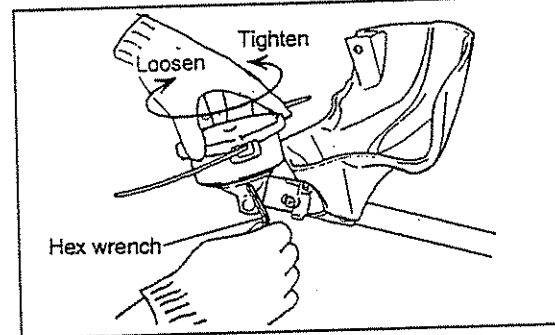


Turn the machine upside down, and you can replace the nylon cutting head easily.

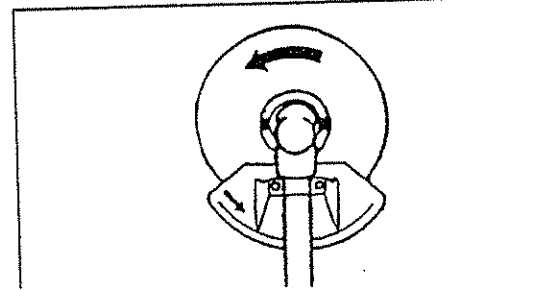
NOTE: The clamp washer (2), and 2 nuts (1) are not necessary for mounting the nylon cutting head. The nylon head should go on top of the receiver washer (3).



Screw the nylon cutting head onto the shaft.



Make sure that the blade is the right way up.



FUELS/REFUELING

Handling fuel

Utmost care is required when handling fuel. Fuel may contain substances similar to solvents. Refuel either in a well ventilated room or outdoors. Do not inhale fuel vapors, avoid any contact of fuel or oil with your skin.

Mineral oil products degrease your skin. If your skin comes in contact with these substances repeatedly and for an extended period of time, it will desiccate. Various skin diseases may result. In addition, allergic reactions are known to occur. Eyes can be irritated by contact with oil. If oil comes into your eyes, immediately wash them with clear water. If your eyes are still irritated, see a doctor immediately!



Observe the Safety Instructions on page 3!

Fuel and oil mixture

Inspect the fuel tank and fill with clean, fresh fuel of the proper mixture to assume the longer life of the tool.

Use the following mixed gas.

Gasoline:Two-stroke oil=25:1

FOR CALIFORNIA REGULATION:

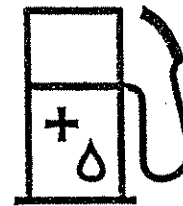
THIS EQUIPMENT IS CERTIFIED TO OPERATE ON GASOLINE + TWO STROKE OIL

When mixing gasoline with two-stroke engine oil, use only unleaded gasoline which contains no ethanol, or methanol (type of alcohol). This will help to avoid possible damage to engine fuel lines and other engine parts.

Do not mix gasoline and oil directly in the fuel tank.

IMPORTANT: Failure to follow proper fuel mix instructions may cause damage to the engine.

- CAUTION:**
1. When preparing fuel mixture, mix only the amount needed for the job you are to do.
Do not use fuel mixture that has been stored longer than two months.
Fuel mixture stored longer than two months will cause hard starting and poor performance.
If fuel mixture has stored longer than this time, it should be removed and filled with a fresh mixture.
 2. Never fill the fuel tank to the very top.
 3. Never add the fuel to the tank in a closed unventilated area.
 4. Do not add fuel to this unit close to an open fire or sparkes.
 5. Be sure to wipe off spilled fuel before attempting to start the engine.
 6. Do not attempt to refuel a hot engine.

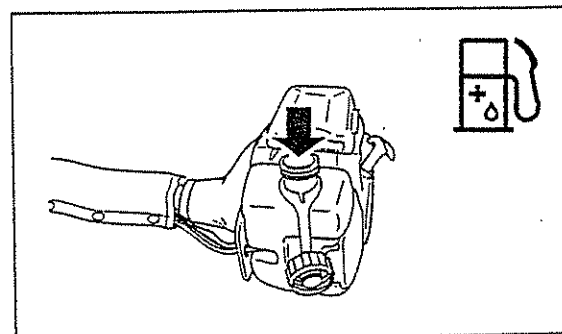


The engine must be switched off!

- Thoroughly clean the area around the fuel filler cap, to prevent dirt from getting into the fuel tank.
- Unscrew the fuel filler cap and fill the tank with fuel.
- Tightly screw on the fuel filler cap.
- Clean screw fuel filler cap and tank after refuelling!

Storage of Fuel

Fuel cannot be stored for an unlimited period of time. Purchase only the quantity required for a 4 week operating period. Only use approved fuel storage containers.

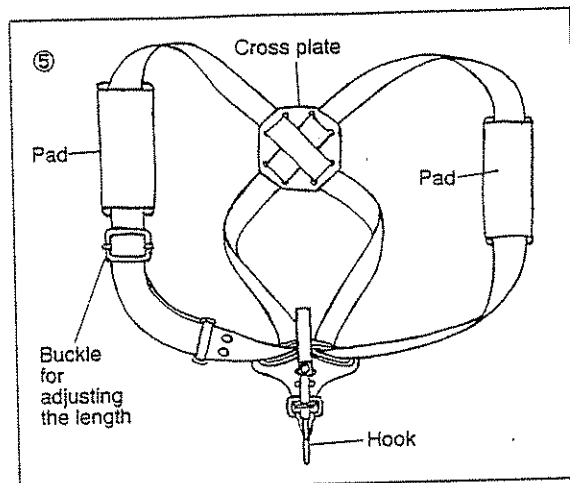
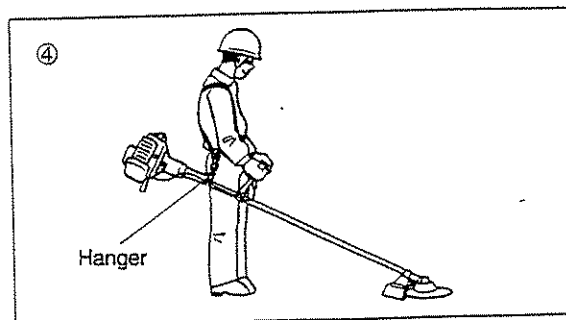
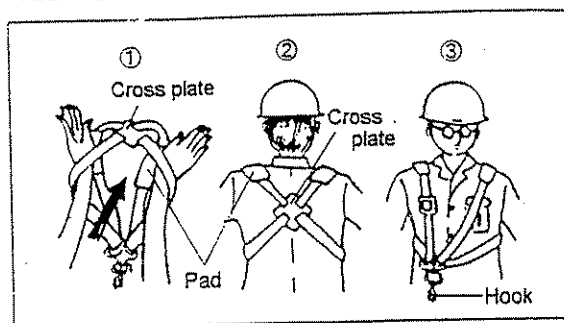


CORRECT HANDLING OF MACHINE

How to wear and adjust the double shoulder strap

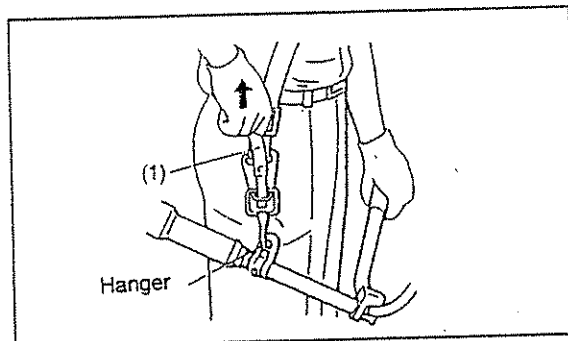
- As we have been informed from many users that the way to wear and adjust the Double Shoulder Strap is not clear.
- To wear and adjust the Double Shoulder Strap for NB351, NB411, please follow the instructions as shown below.

- ① Wear the Strap from head so that the Cross Plate comes to the front.
- ② The Cross Plate is to the back of the body.
- ③ The Hook is to the right side.
- ④ Wear the Strap across the chest, connect the Hook and Hanger of machine shaft. Keep the machine at your right side
- ⑤ Adjust the strap length for the best operation position. But when adjusting, once detach the Hook from the Hanger, then adjust by buckle of the strap. Because the position of pad and cross plate are also needed to adjust again as a result of the adjustment of the strap length.



Detachment

- In an emergency, pull the release belt (1) strongly upward, and you can detach the machine from you.
- 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.



PUTTING INTO OPERATION

Observe the applicable accident prevention regulations!

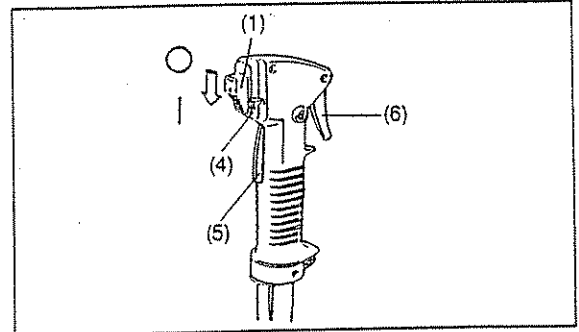


Starting

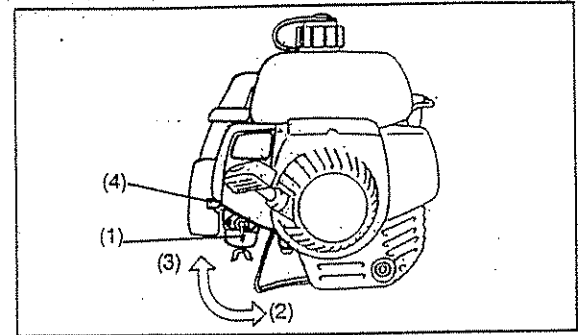
Move at least 3m (10ft) away from the place of refuelling. Place the brush cutter on a clean piece of ground taking care that the cutting tool does not come into contact with the ground or any other objects.

Cold start

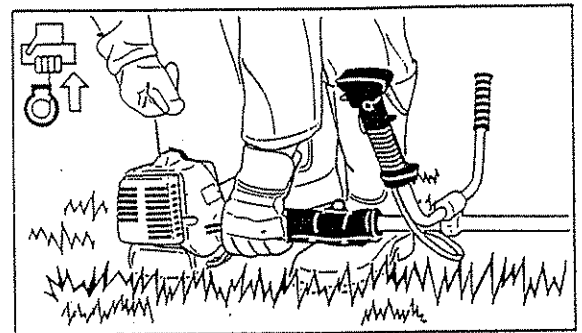
- Push the I - O switch(1) in the direction shown by the arrow.
- Grasp the handle(hand pressure activates the safety lock-off lever(5)).
- Press the throttle lever(6) and hold it down.
- Press the lock button(4) and release the control lever, and then release the lock button(the lock button holds the throttle lever in the start-up position).



- First place the machine on the ground.
- Open the fuel valve. The valve opens when the lever (1) is at right angles to the ground (2). The valve closes when the lever is parallel with the ground (3).
- Move the choke lever (4) to the top position (↑).



- Firmly hold the clutch case by your left hand, as illustrated.
- Slowly pull the starter grip until resistance is felt and continue with a smart pull.
- Do not pull out the starter rope to its full extent and do not allow the starter handle to be retracted without control, but ensure that it is retracted slowly.
- Repeat the starting operation until initial ignitions are heard.
- Depress the choke lever (↓) and pull the starter rope again until the engine starts.
- As soon as the engine starts, immediately tap and release the throttle, thus releasing the half-throttle lock so that the engine can run in idle.
- Run the engine for approximately one minute at a moderate speed before applying full throttle.



Caution during operation:

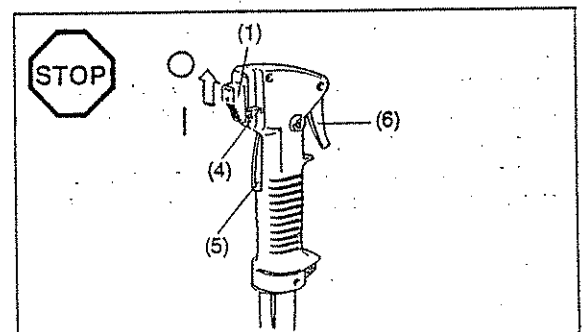
If the control lever is opened fully in a no-load operation, the engine rotation is increased to 10,000rpm or more. Never operate the engine at a higher speed than required and at an approximate speed of 6,000-8,000rpm.

Starting the warm engine

- As described above, except without moving the choke lever (choke lever remains in the down position).

Stopping

- Release the control lever fully, and when the engine rpm has lowered, push the I - O switch to "O" position the engine will stop.



IDLE ADJUSTMENT

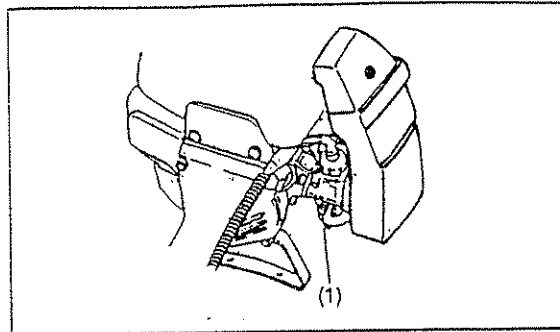
The cutter blade or the nylon cutting head should not run when the control lever is fully released. If necessary, adjust the idle rpm using the idle adjusting screw.

Checking the idling speed

- Idle speed should be set to 2,600rpm.

If necessary correct it by means of the idle screw (the blade or the nylon cutting head must not turn when the engine is on idle).

Screwing in the screw (1) will cause an increase in the engine speed, whereas backing off the screw will reduce the engine speed.



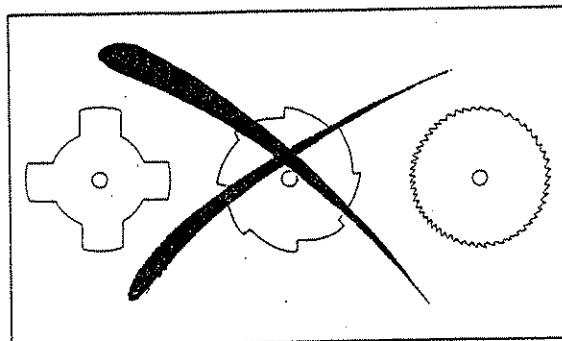
RESHARPENING THE CUTTING TOOL

CAUTION: The cutting tools mentioned below must only be reshaped by an authorized facility. Manual reshaping 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))

An expert reshaping 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.



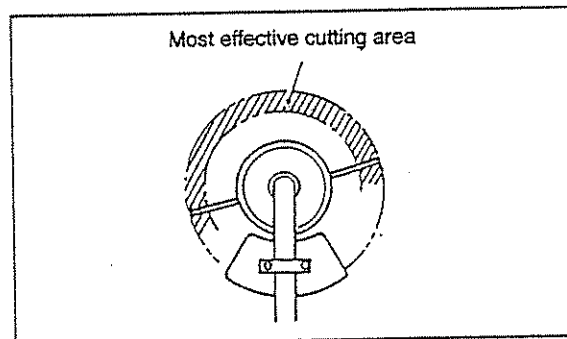
Nylon cutting head

The nylon cutting head is a dual string trimmer head capable of both automatic and 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.

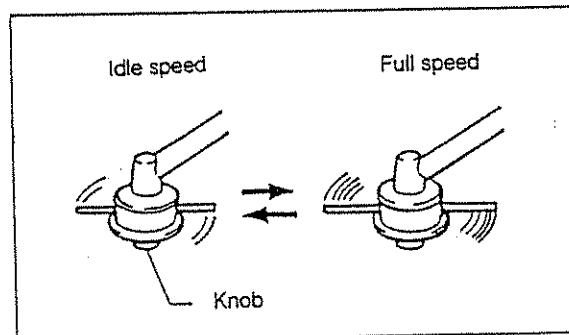
Operation

- Increase the nylon cutting head speed to approx. 5,000rpm. Low speed (under 4,800rpm) is not suitable, the nylon cord will not feed out properly at low speed.
- The most effective cutting area is shown by the shaded area.



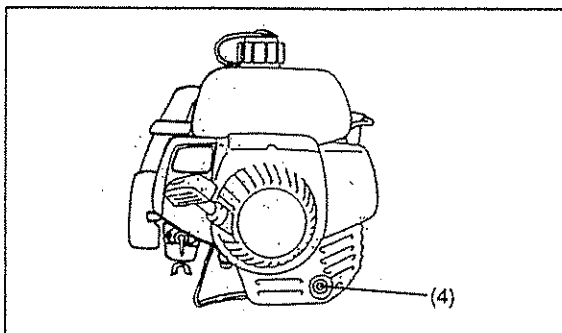
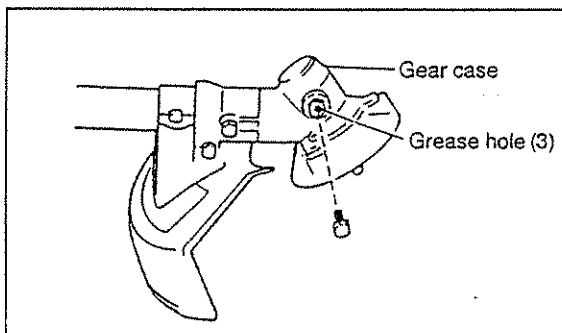
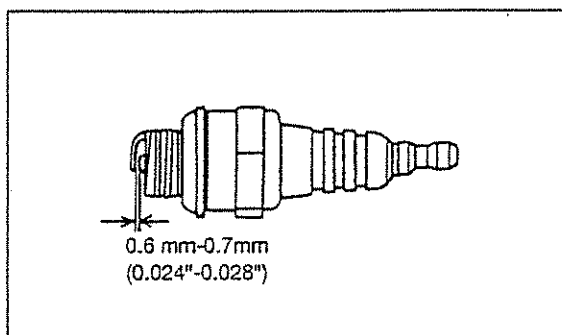
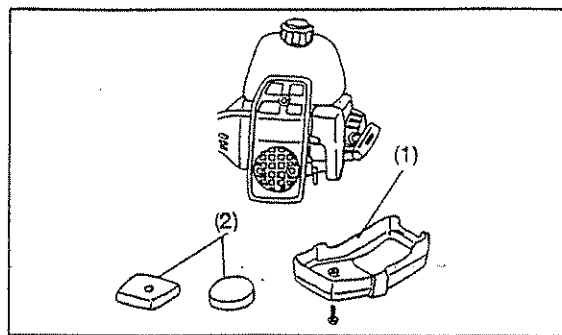
If the nylon cord does not feed out automatically, proceed as follows:

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".



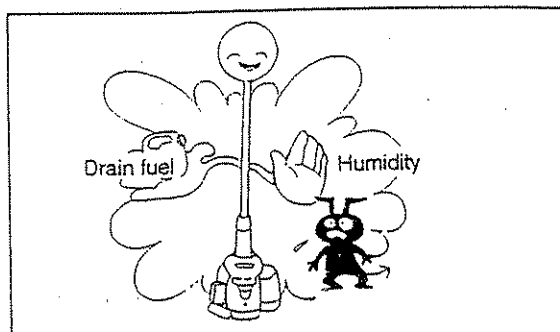
Maintenance schedule

1. Before operation, pay particular attention to the tightness of Cutter Blade or nylon cutting head.
Check bolts and nuts and retighten if necessary. : Every 8 hours (Daily)
2. Check clogging of the cooling air passage and the cylinder fins. Clean them if necessary. : Every 8 hours (Daily)
3. Cleaning of air cleaner. : Every 8 hours (Daily)
 - 1) Remove the air cleaner cover (1) and clean the sponge element (2).
If there is excessive dust or dirt adhering to cleaner, clean it.
A clogged air cleaner may make it difficult or impossible to start the engine or increase the engine rotational speed.
 - 2) Install the sponge element around the ribs of the air cleaner case.
4. Checkup of spark plug. : Every 8 hours (Daily)
The gap between the two electrodes of the spark plug should be 0.6 to 0.7mm (0.024" to 0.028").
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.
5. Supply of grease to gear case.
Apply grease (SHELL ALVANIA No.3 or equivalent) to the gear case through the grease hole (3) every 30 hours.
6. Cleaning of muffler exhaust port. : Every 50 hours (Monthly)
If the exhaust port (4) is clogged with carbon, remove it by scraping and tapping gently with a screwdriver or the like.
7. Check of fuel filter. If clogged, clean the filter.
8. Replace fuel lines. : Every 200 hours (Yearly)
9. Overhaul engine. : Every 200 hours (Yearly)
10. Replace packings and gaskets with new ones. : Every time engine is reassembled.



STORAGE

- When the machine is in storage for a long time, drain fuel from the fuel tank and carburetor, as follows: Drain all fuel from the fuel tank. Dispose of properly and in accordance with all local laws.
- Remove the spark plug and a few drops of oil into the spark plug hole. Then, pull the starter gently, so that oil covers the engine inside and tighten the spark plug.
- Clear dirt or dust from the cutter blade and outside of engine, wipe them with a oil-immersed cloth and keep the machine in a place as dry as possible.



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 immediately	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

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 1995 and later lawn and garden equipment engine.

In California, new utility and lawn and garden equipment engines 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 lawn and garden equipment engine for the periods of time described below, provided there has been no abuse, neglect or improper maintenance of your lawn and garden equipment 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 lawn and garden equipment engine at no cost to you including diagnosis, parts and labor.

MANUFACTURE'S WARRANTY COVERAGE:

The 1995 and later utility and lawn and garden equipment 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 lawn and garden equipment 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 lawn and garden equipment 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 lawn and garden equipment engine owner, you should be aware, however, that FUJI ROBIN INDUSTRIES LTD. may deny you warranty coverage if your lawn and garden equipment engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

—You are responsible for presenting your lawn and garden equipment engine to a dealer, distributor or warranty station authorized by Carswell Import & Marketing Associates, Inc. (Winston-salem, North Carolina 27115) which is the importer of the lawn and garden equipment into the U.S. manufactured by FUJI ROBIN INDUSTRIES LTD. 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.

Technical Service Manager at (910) 767-7700.

LIMITED WARRANTY
on Emission Control Systems
- California Only -

FUJI ROBIN INDUSTRIES LTD. (Shizuoka, JAPAN) warrant to the owner of the 1995 and later lawn and garden equipment 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 lawn and garden equipment 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.

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 dealer, distributor or a warranty station.

You may contact Technical Service Manager at (910)767-7700 of Carswell Import & Marketing Associates, Inc. (Winston-salem, North Carolina) which is the importer of the lawn and garden equipment into the U.S. 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 listed at the conclusion of this warranty statement. Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of "repair or replace 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 damages to other engine components, consult a warranty station.

D. WHAT IS NOT COVERED

1. 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 1995 and later Owner's Manual including:
 - (1) improper or inadequate maintenance of any warranted parts
 - (2) improper installation, adjustment or repair of the engine or of any warranted part unless performed by an authorized dealer
 - (3) repairs performed outside of the authorized warranty service facility
 - (4) failure to follow recommendations on fuel use contained in the 1995 and later Owner's Manual
 - (5) use of parts which are not authorized by FUJI ROBIN INDUSTRIES LTD.
2. Add-on 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.
3. Expenses incurred by processing warranty claims
Carsewell 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.

E. HOW TO FILE A CLAIM

All repairs qualifying under this Limited Warranty must be performed by a dealer who sold you the engine or distributors or warranty stations authorized by Carsewell Import & Marketing Associates, Inc.

In the event that any emission-related part is found to be defective during the warranty period, you shall notify Carsewell Import & Marketing Associates, Inc. at (910) 767-7700 and then you will be given the appropriate warranty service facilities where the warranty repair is performed.

F. WHERE 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, must be allowed for the warranty repair to be completed after the engine is received by the authorized dealer, distributor or service station.

G. MAINTENANCE, REPLACEMENT AND REPAIR OF EMISSION-RELATED PARTS

Any warranted engine replacement parts approved by FUJI ROBIN INDUSTRIES LTD. should be used in the performance of any warranty maintenance or repairs on emission-related parts.

If other than authorized parts are used for maintenance, replacement or repair of components affecting emission control, you should assure yourself that such 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 authorized parts.

The use of non-authorized replacement parts does not invalidate the warranty on other components unless the 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 case
 - (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) Fuel hoses and sealing gaskets

I. MAINTENANCE STATEMENTS

It is your responsibility to have all scheduled inspection and maintenance services performed at the times recommended in the 1995 and later Owner's Manual and to retain proof that inspection and maintenance services are 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 1995 and later Owner's Manual.

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

- 1) Check bolts and nuts. Retighten if necessary. ---- Every 8 hours (daily)
- 2) Check clogging of cooling air passage and cylinder fins. Remove and clean if necessary.
---- Every 8 hours (daily)
- 3) Clean air cleaner. ---- Every 8 hours (daily)
- 4) Check spark plug. Clean and adjust if necessary. ---- Every 8 hours (daily)
- 5) Check muffler exhaust port. Clean if necessary. ---- Every 50 hours (monthly)
- 6) Check fuel filter. If clogged, replace with new one. ---- Every 50 hours (monthly)
- 7) Replace fuel lines. ---- Every 200 hours (yearly)
- 8) Overhaul engine. ---- Every 200 hours (yearly)
- 9) 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

FUJI 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.

- 1) Fuel Metering System
 - (i) Carburetor and internal parts
 - (ii) Fuel filter, if applicable
 - (iii) Throttle stopper, if applicable
 - (iv) Choke System, if applicable
- 2) Air Induction System
 - (i) Air cleaner plate
 - (ii) Air cleaner case
 - (iii) Air cleaner element
- 3) Ignition System
 - (i) Spark plug
 - (ii) Flywheel Magneto
 - (iii) Ignition Coil
- 4) 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, failure to use the 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 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, however, 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 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.

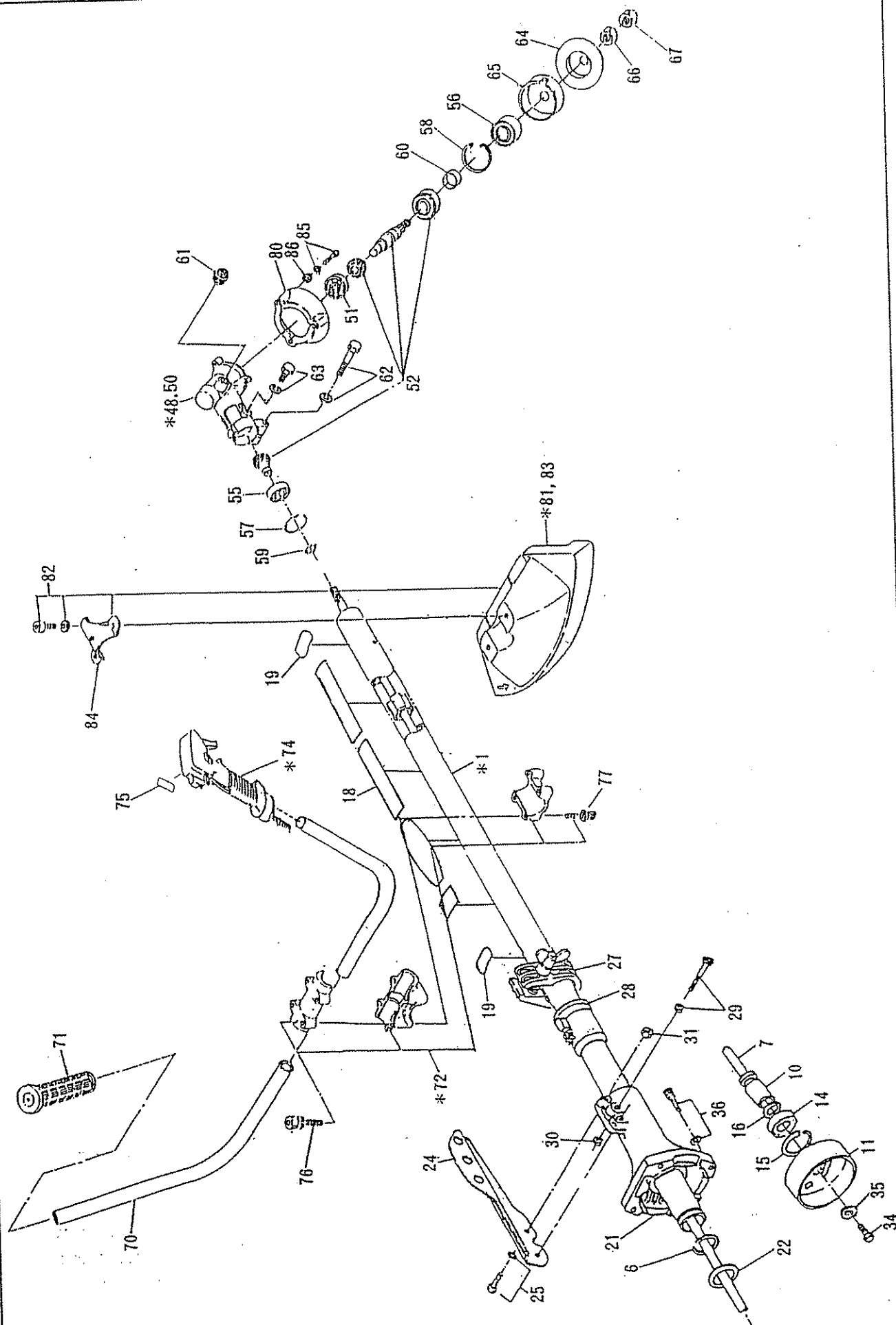
HOW TO MAKE A CLAIM

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 and you will be given the appropriate warranty service facilities where the warranty repair can be performed.

NB351-411 PARTS LIST

(U. S. SPEC.)

MACHINE BODY



NB351-411 PARTS LIST

MACHINE BODY

(U. S. SPEC.)

KEY No.	PART No.	QTY.		DESCRIPTION
		NB351	NB411	
* 1	641 10010 00-1	1	1	Pipe, shaft compl. (incl. 6)
6	630 15015 00	1	1	Snapring, outer
7	641 10090 01-2	1	1	Shaft compl.
10	641 10080 00	1	1	Damper
11	641 20060 00	1	1	Drum, clutch compl.
14	0600 17985 0	1	1	Ball bearing
15	00314 3500 0	1	1	Snapring, inner
16	00315 1700 0	1	1	Snapring, outer
18	621 95195 01	1	1	Label, caution
19	625 95147 00-1	2	2	Label, caution
21	641 15004 00-3	—	1	Case, clutch
21	635 15000 00-3	1	—	Case, clutch
22	630 15016 00	1	1	Washer
24	641 75002 00-2	1	1	Hanger
25	00118 0628 0	2	2	Bolt ass'y
27	630 10010 00	1	1	Stopper compl.
28	641 15022 00	1	1	Stopper
29	00434 0635 0	1	1	Screw ass'y
30	00227 0600 0	1	1	Nut
31	00218 0600 0	2	2	Nut
34	620 25004 00	1	1	Bolt
35	620 25006 00	1	1	Washer
36	0119 06991 0	4	4	Socket head bolt (M6×18, SW)
* 48	641 30080 01	1	1	Case, gear ass'y (incl. 50-67)
50	641 35000 00-2	1	1	Case, gear
51	0600 07999 0	1	1	Ball bearing
52	641 30090 00	1	1	Shaft, cutter set
55	0600 12998 0	1	1	Ball bearing
56	641 35004 00	1	1	Oil seal
57	00314 2800 0	1	1	Snapring, inner
58	00314 3200 0	1	1	Snapring, inner
59	00315 1200 0	1	1	Snapring, outer
60	641 35005 00	1	1	Spacer
61	641 35006 00-1	1	1	Bolt, oil
62	00113 0632 0	1	1	Bolt ass'y (M6×32)
63	00113 0614 0	1	1	Bolt ass'y (M6×14)
64	630 85031 00	1	1	Washer, clamp
65	641 85001 01	1	1	Washer, receive
66	630 85032 00	1	1	Nut
67	630 85033 00	1	1	Nut
70	641 45006 00-1	2	2	Handle
71	640 45024 00	—	1	Grip
71	630 45010 00	1	—	Grip
* 72	641 40050 00	1	1	Handle joint ass'y (incl. 76, 77)

(U. S. SPEC.)

(U. S. SPEC.)

(U. S. SPEC.)

CONTROL LEVER ASS'Y

This exploded view diagram illustrates the assembly of a mechanical device, likely a power tool. The components are numbered as follows:

- 1**: Main housing or base plate.
- 2**: Trigger switch mechanism.
- 3**: Internal structural component, possibly a spring or guide.
- 4**: Small bracket or pin near the trigger.
- 5**: Curved lever or switch component.
- 6**: Small rectangular component, possibly a switch or sensor.
- 7**: Cylindrical component, possibly a motor or battery housing.
- 8**: A note indicating a specific assembly point or torque specification.
- 9**: A cable or hose connecting different parts of the assembly.
- 10**: A threaded rod or bolt.
- 11**: A small pin or screw.
- 12**: A screw or bolt used for mounting.
- 13**: A small component, possibly a spring or pin.
- 14**: A screw or bolt used for securing the cylindrical part.
- 15**: A small rectangular component, possibly a switch or sensor.
- 16**: A long threaded rod or bolt.
- 17**: A small pin or screw.
- 18**: A small component, possibly a spring or pin.

Assembly notes are present:

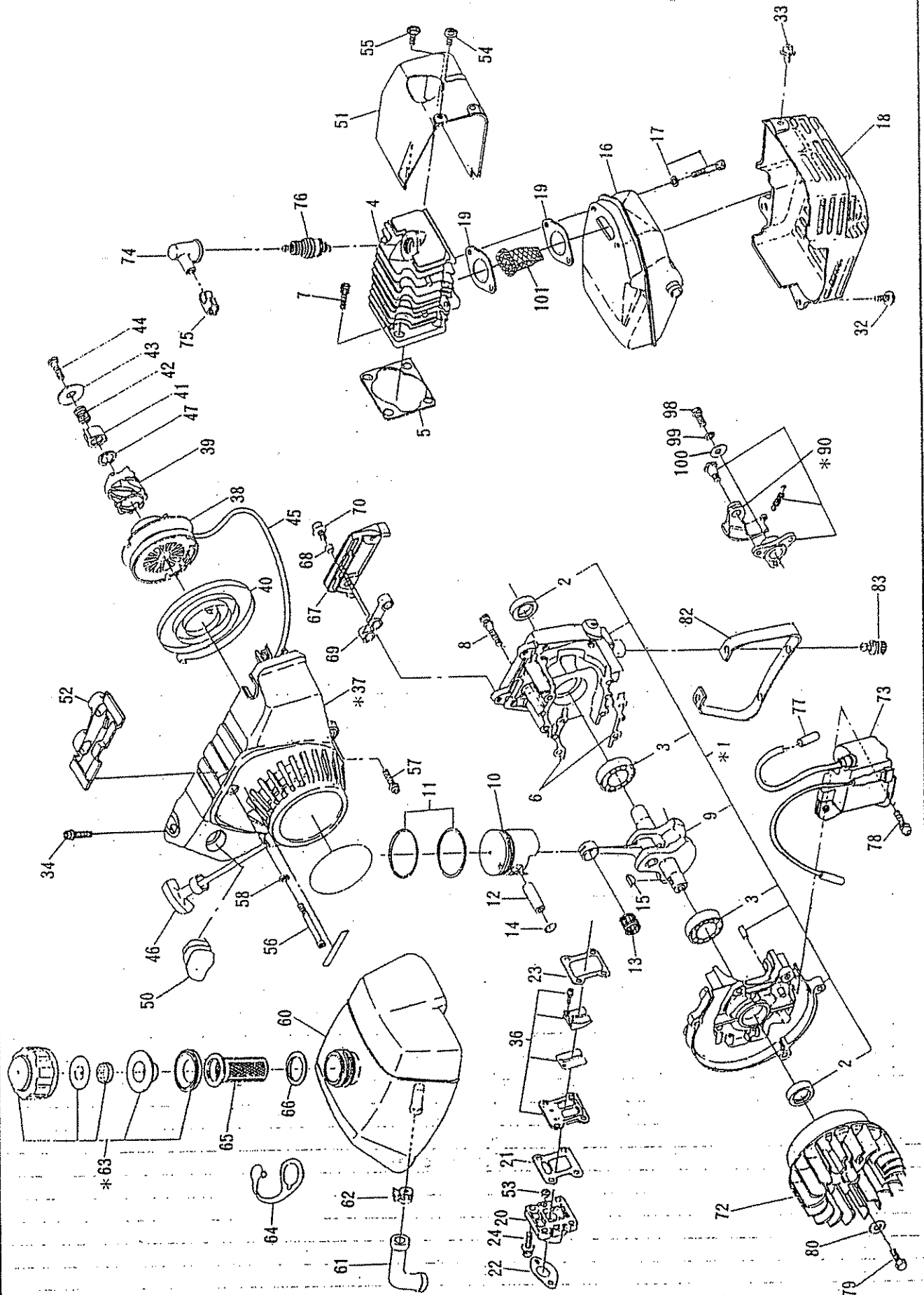
- *74**: Located near the trigger switch mechanism.
- *8**: Located near the threaded rod/bolt assembly.

[illegible]

NB351-411 PARTS LIST

ENGINE BODY

(U. S. SPEC.)



NB351-411 PARTS LIST

(U. S. SPEC.)

ENGINE BODY

KEY No.	PART No.	QTY.		DESCRIPTION
		NB351	NB411	
* 1	541 10050 00	1	1	Crankcase compl. (incl. 2, 3, 6)
2	0440 15997 1	2	2	Oil seal
3	0600 15988 0	2	2	Ball bearing
4	532 15000 00-3	1	—	Cylinder
4	541 15003 00-4	—	1	Cylinder
5	541 15005 00	1	1	Gasket, cylinder
6	541 15012 00	1	1	Gasket, crankcase
7	0119 06999 0	4	4	Socket head bolt (M6×18)
8	0119 05994 0	4	4	Socket head bolt (M5×30, SW)
9	541 20010 00-1	1	1	Crankshaft compl.
10	532 25000 00-1	1	—	Piston
10	541 25008 00-1	—	1	Piston
11	532 25001 00	2	—	Ring, piston
11	540 25006 00-1	—	2	Ring, piston
12	541 25003 00	1	1	Pin, piston
13	541 25013 00	1	1	Needle roller bearing
14	0566 09909 0	2	2	Clip
15	0323 03999 0	1	1	Woodruff key
16	532 30060 00	1	1	Muffler, exhaust
17	0119 06978 0	2	2	Socket head bolt (M6×60, W)
18	541 35001 00-2	1	1	Cover, muffler
19	532 35006 00	2	2	Gasket, muffler
20	541 35011 00-1	1	1	Insulator
21	541 35012 00-1	1	1	Gasket, insulator
22	541 65013 00	1	1	Gasket, carburetor
23	541 35028 00	1	1	Gasket, lead valve
24	0119 05963 0	4	4	Socket head bolt
32	0140 06991 0	2	2	Screw (M6×16, W, SW)
33	0140 05955 0	1	1	Screw (M5×14, W, SW)
34	0140 05963 0	1	1	Screw
36	541 30070 00-1	1	1	Valve, lead ass'y
* 37	541 50010 00-2	1	1	Starter, rewind (incl. 38-47)
38	541 50010 10	1	1	Reel
39	541 50010 20	1	1	Ratchet
40	541 50010 30	1	1	Spiral spring
41	541 50010 40	1	1	Ratchet guide
42	541 50010 50	1	1	Friction spring
43	541 50010 60	1	1	Washer
44	524 50010 10	1	1	Bind screw
45	541 50011 40	1	1	Starter rope
46	530 50021 10	1	1	Starter knob compl.
47	541 50012 20	1	1	Thrust washer
50	541 55030 00-1	1	1	Cap, starter
51	541 55001 00-1	1	1	Cover, cylinder
52	541 65019 00	1	1	Damper
53	00217 0500 0	2	2	Nut
54	0140 05961 0	1	1	Screw (M5×14, W, SW)
55	0140 05956 0	1	1	Screw (M5×20, SW)
56	0119 05966 0	1	1	Socket head bolt (M5×50)
57	0119 05979 0	2	2	Socket head bolt (M5×22, W)
58	00310 0500 0	1	1	Washer (M5)
60	541 65000 00	1	1	Tank, fuel
61	541 65002 00	1	1	Tube, fuel
62	0561 13998 2	1	1	Hose clamp

NB351-411 PARTS LIST

(U. S. SPEC.)

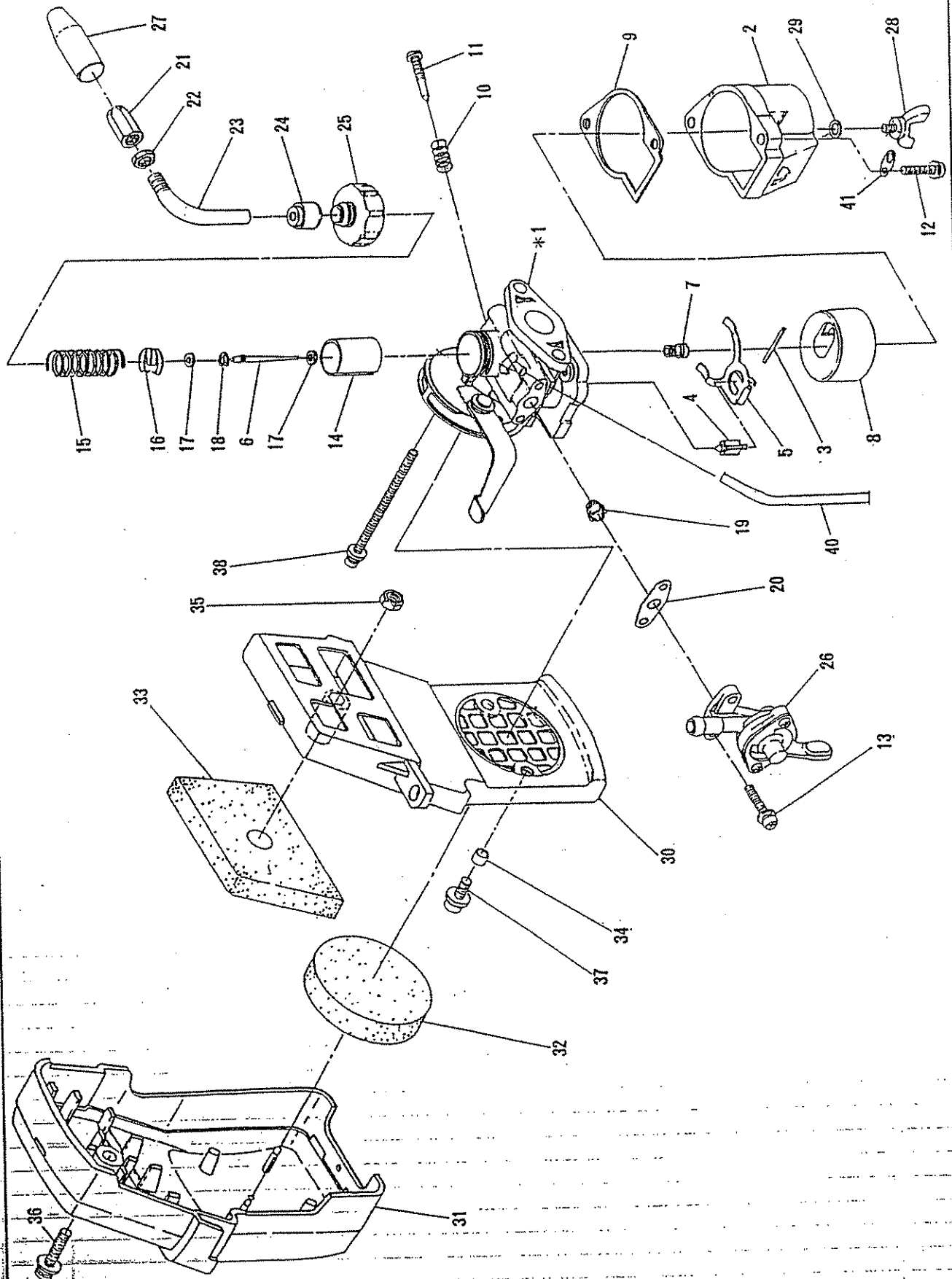
ENGINE BODY

ENGINE BODY				
KEY	PART	QTY.		DESCRIPTION
		NB351	NB411	
No.	No.			
64	625 50210 01	1	1	Strap unit
65	0641 27999 0	1	1	Filter, fuel
66	551 65005 01	1	1	Gasket
67	541 65003 00	1	1	Bracket, fuel tank
68	0230 05999 0	2	2	Spacer
69	541 65011 00	1	1	Damper
70	0140 05963 0	2	2	Screw (M5×14, W)
72	541 70230 10	1	1	Flywheel, magneto
73	541 70230 20	1	1	Coil, ignition
74	0655 00994 0	1	1	Cap, plug
75	0654 00993 1	1	1	Spring, plug cap
76	0650 14971 0	1	1	Plug, spark
77	541 75003 00-1	1	1	Tube
78	0119 05979 0	2	2	Socket head bolt (M5×22, W)
79	0130 06997 0	1	1	Bolt ass'y (M6×16, w)
80	0200 06992 0	1	1	Washer
82	641 55000 00	1	1	Stand
83	0119 06990 0	2	2	Socket head bolt (M6×14, SW)
* 90	645 20020 00	1	1	Clutch
98	620 25004 00	1	1	Bolt
99	00320 0600 0	1	1	Spring washer
100	620 25006 00	1	1	Washer
101	532 35005 00	1	1	Spark arrester

NB351-411 PARTS LIST

CARBURETOR & AIR CLEANER

(U. S. SPEC.)



NB351-411 PARTS LIST

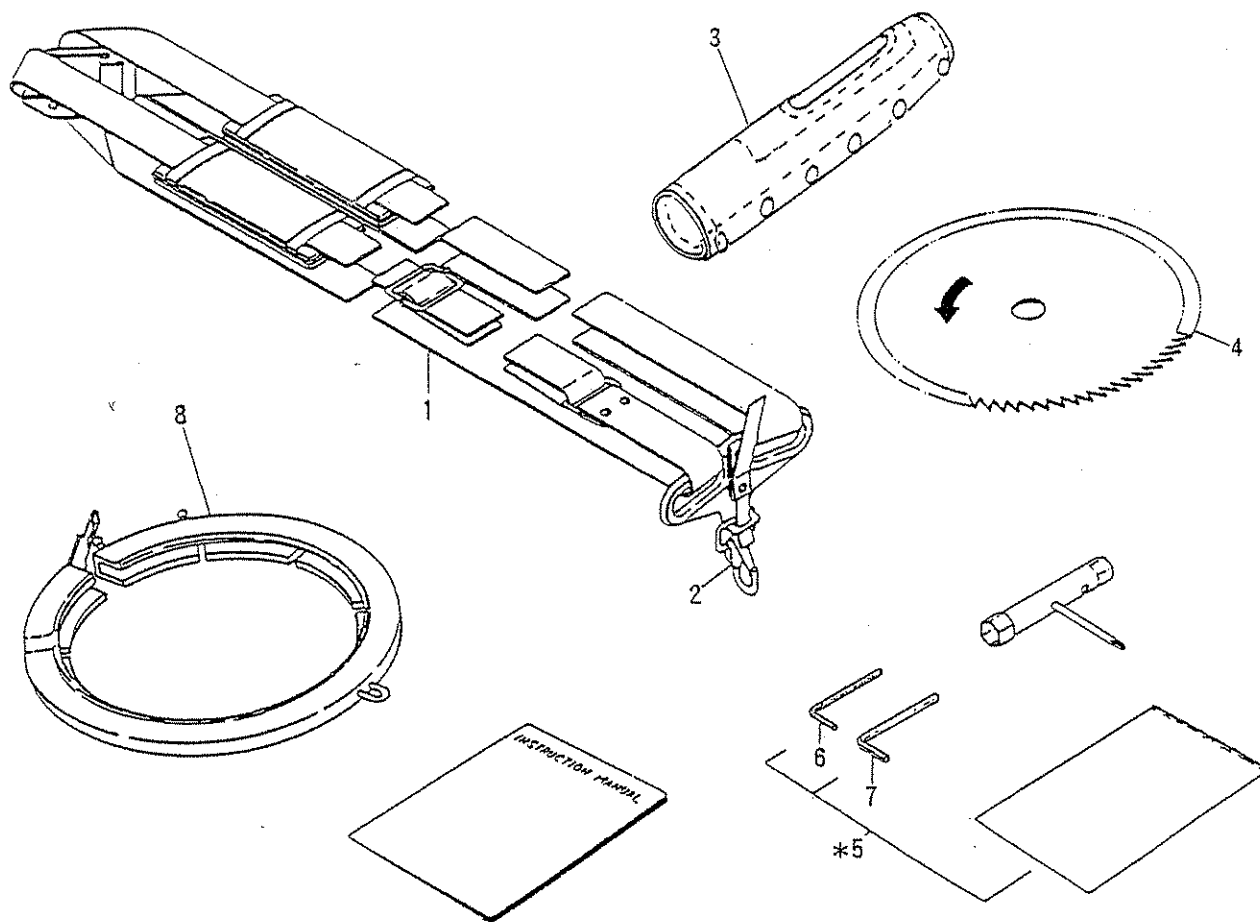
(U. S. SPEC.)

CARBURETOR & AIR CLEANER

CARBURETOR & AIR CLEANER				
KEY	PART	QTY.		DESCRIPTION
		NB351	NB411	
# 1	541 60400 00	1	1	Carburetor compl. (incl. 2-29, 40, 41)
2	530 60080 10	1	1	Float body
3	530 60091 60	1	1	Straight pin
4	530 60091 50	1	1	Needle ass'y
5	530 60092 30	1	1	Float arm
6	541 60400 10	1	1	Jet needle
7	530 60180 20	1	1	Main jet
8	530 60090 20	1	1	Float
9	530 60092 20	1	1	Gasket
10	541 60011 10	1	1	Spring (CO)
11	541 60010 60	1	1	Adjust screw
12	530 60095 10	2	2	Screw
13	804 60015 30	2	2	Screw
14	541 60080 21	1	1	Piston valve
15	530 60092 40	1	1	Spring (CO)
16	530 60091 20	1	1	Spring plate
17	541 60010 40	2	2	Packing
18	530 60094 50	1	1	E-ring
19	541 60011 30	1	1	Filter
20	530 60092 10	1	1	Gasket
21	530 60093 10	1	1	Cable adjuster
22	530 60094 60	1	1	Nut
23	541 60010 30	1	1	Cable guide
24	530 60092 50	1	1	Cap
25	530 60092 60	1	1	Mixing cap
26	541 60010 20	1	1	Cock body ass'y
27	541 60010 10	1	1	Cap
28	530 60022 40	1	1	Screw
29	530 60024 10	1	1	O-ring
30	541 35004 01-1	1	1	Case, air cleaner
31	541 35005 00-2	1	1	Cleaner cover
32	541 35006 00	1	1	Element
33	541 35027 00	1	1	Element, air cleaner
34	0230 05999 0	2	2	Spacer
35	00217 0500 0	1	1	Nut
36	0140 05968 0	1	1	Screw ass'y (M5×25, W)
37	0140 05963 0	2	2	Screw ass'y (M5×14, W)
38	00436 0558 0	2	2	Screw ass'y (M5×58, SW, W)
40	541 60160 40	1	1	Hose
41	541 60160 30	1	1	Plate

STANDARD ACCESSORY

(U. S. SPEC.)

[illegible]

MEMO

This image shows a single page from a notebook, oriented vertically. At the top center, the word "MEMO" is printed in a bold, sans-serif font. The page is ruled with horizontal lines, with a solid line at the top and bottom, and a series of dashed lines in between. A vertical solid line runs down the left side of the page, creating a margin. The page is otherwise blank, with no handwriting or other markings.

LIMITED TWO YEAR WARRANTY

Carswell Import & Marketing Associates, Inc. (hereafter CIMA), sales agent for FujiRobin 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

FujiRobin Industries, Ltd.
Shibuya-ku, Tokyo, Japan

WARRANTY SERVICE

Warranty 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 along with proof of purchase to the dealer within the warranty period, and all work must be performed by an Authorized Robin Service Dealer.

Example of Parts and Service not covered by Warranty

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

Normal service over and above repair or replacement of defective parts.

Repair or maintenance service 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.

Normal 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 ten (10) days of purchase.

(Detach and Mail)



WARNING: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

PLACE
STAMP
HERE

CM CARSWELL IMPORT &
MARKETING ASSOCIATES, INC.
P.O. Box 4169, Winston-Salem, N.C. 27115



FUJI ROBIN INDUSTRIES LTD.