

# HAYTER

MAKERS OF THE FINEST MOWERS

## Brush Cutters

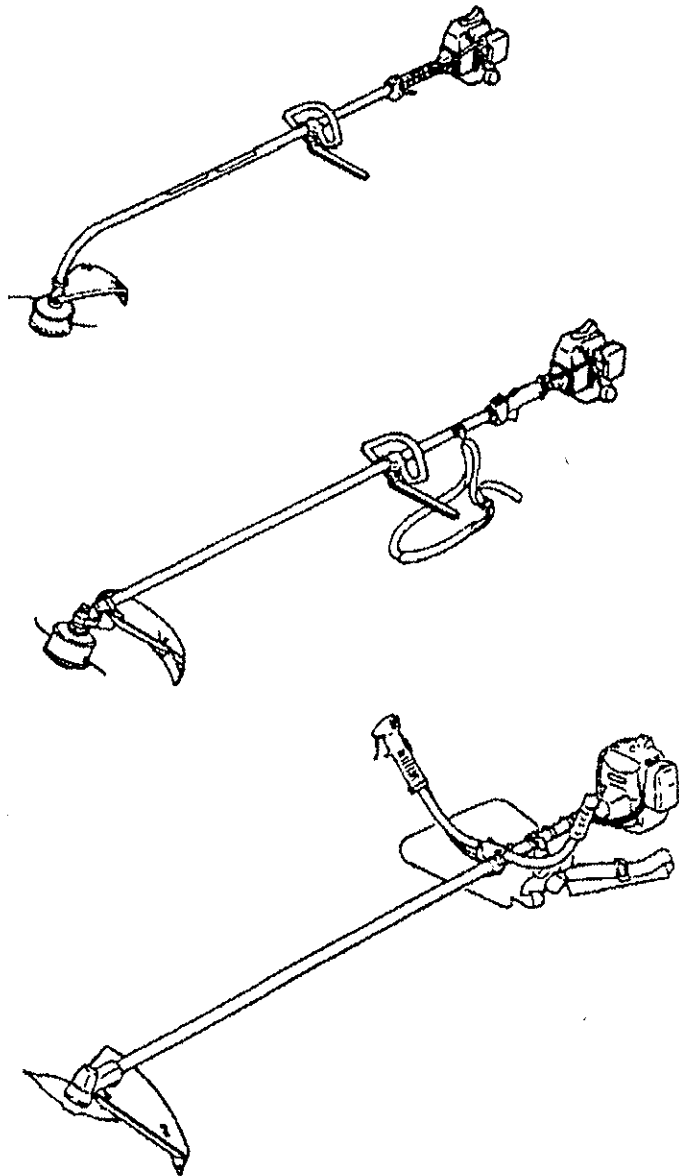
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***BCL2250C-RS***  
*Code460E*

***BCL2250-RS***  
*Code461E*

***BC250H-RS***  
*Code462E*

***BC420H-RS***  
*Code463E*



## OWNER'S HANDBOOK

Completely read & understand this handbook before using this product.

(English Version)

FROM SERIAL NO: 460E-280000001, 461E-280000001

PART NO: 111-1061(A)

462E-280000001, 463E-280000001

ISSUE 14/02/08

# Introduction

This Owner's Handbook is designed to familiarise the operator with the various features and component parts of the equipment and to assist you with the assembly, operation and maintenance of your new Trimmer/ Brushcutter.

It is essential that any operator of this Trimmer/ Brushcutter reads and understands the contents this manual before using the Trimmer/ Brushcutter.

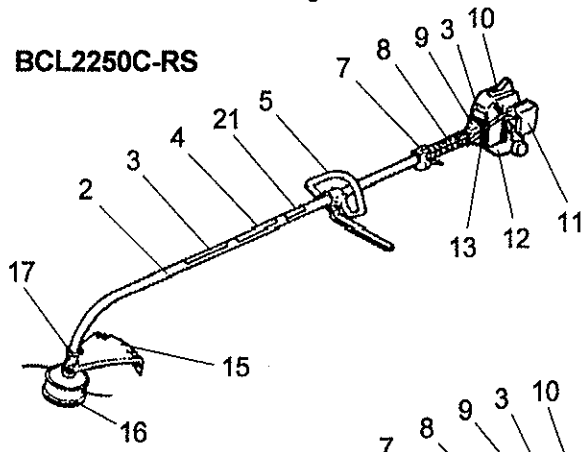
For additional assistance, contact any local HAYTER dealer.

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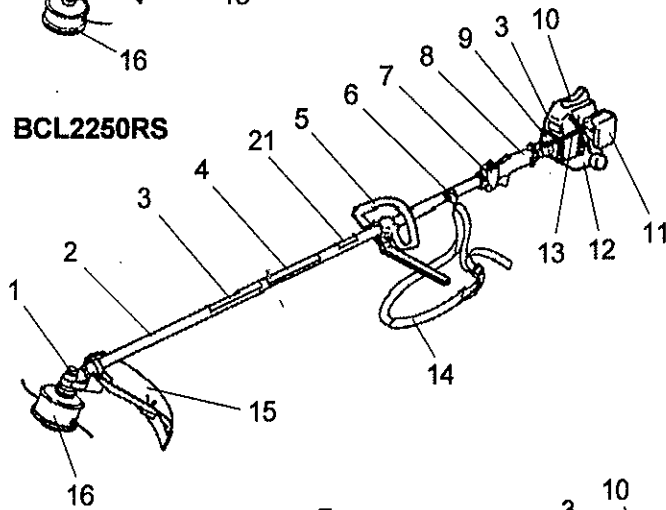
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# Product Description

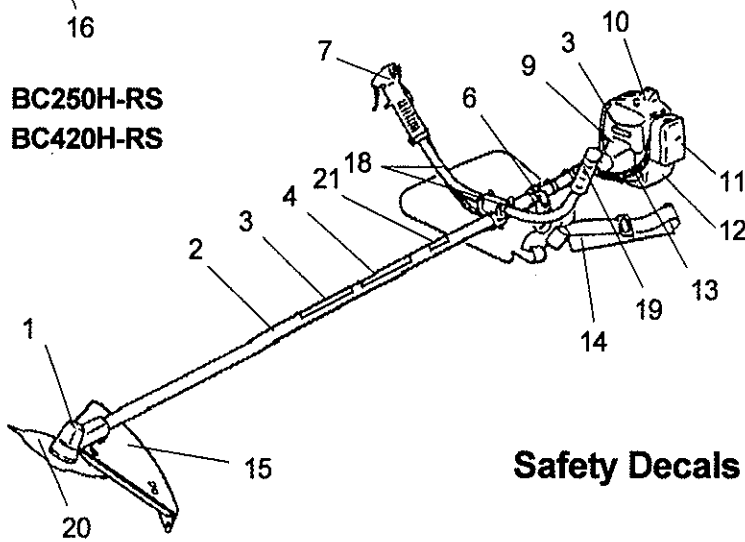
**BCL2250C-RS**



**BCL2250RS**



**BC250H-RS  
BC420H-RS**

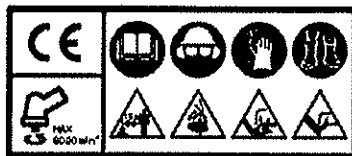


1. Gearcase
2. Drive Shaft Assembly
3. Safety Decal
4. Model Name
5. Loop Handle
6. Attachment Ring for Shoulder Hanging Strap
7. Throttle Trigger and Stop Switch
8. Shaft Grip
9. Clutch Drum Housing
10. Engine
11. Air Filter
12. Fuel Tank
13. Throttle Cable and Stop Switch Wires
14. Shoulder Hanging Strap/Shoulder Harness
15. Guard
16. Trimmer Head
17. Bearing Case
18. Horn Handle
19. Handle Grip
20. Cutting Blade
21. Serial No. Label

## Safety Decals



**ON ENGINE**  
(Part No. MY265694)



**ON SHAFT (Part No. MY223188)**  
[All Models except BCL2250C-RS]



**ON ENGINE**  
[BCL2250C-RS, BCL2250-RS]  
(Part No. MY281623)

[BC420H-RS] [BC250H-RS]  
(Part No. MY281572) (Part No. MY284380)



**ON SHAFT (Part No. MY220810)**  
[Model: BCL2250C-RS]



**ON SERIAL NO. LABEL**  
[All Models except BC420H-RS]



**ON SERIAL NO. LABEL**  
[Model: BC420H-RS]

Safety Decals are easily visible to the operator and are located near any area of potential danger. Replace any decal that are damaged or lost.

# Safety Instructions

The warning symbol in This manual identifies potential hazards and has special safety messages that help you and others avoid personal injury, even death.

**⚠ DANGER**, **⚠ WARNING** and **⚠ CAUTION** are signal words to identify the level of hazard.

**⚠ DANGER** : signals an extreme hazard that will cause serious injury or death if the recommended precautions are not followed.

**⚠ WARNING** : signals a hazard that may cause serious injury or death if the recommended precautions are not followed.

**⚠ CAUTION** : signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed. Two other words are also used to highlight information. "Important" calls attention to special mechanical information and "Note" emphasizes general information worthy of special attention.

## Operator safety

1. Read and understand this Manual before using the Trimmer/ Brushcutter. Be thoroughly familiar with the proper use of this Trimmer/ Brushcutter.
2. Always wear eye protection and ear protection.
3. Always wear heavy long trousers, a long sleeved shirt, boots and gloves. Do not wear loose clothing, jewelry, shorts, sandals, or go barefoot. Secure hair so it is above shoulder length.
4. Never operate this Trimmer/ Brushcutter when you are tired, ill, or under the influence of alcohol, drugs or medication.
5. Never start or run the engine inside a closed room or building. Breathing exhaust fumes can cause death.
6. Keep the grip of handles clean of oil, fuel and dirt.



## Trimmer/ Brushcutter safety

1. Shut off the engine and be certain the cutting attachment has completely stopped rotating before inverting the Trimmer/ Brushcutter, performing maintenance on or working on the machine.
2. Make sure the Trimmer/ Brushcutter is assembled correctly and that the cutting attachment is correctly installed and securely fastened as instructed in the Assembly section.
3. Inspect the Trimmer/ Brushcutter before each use. Replace damaged parts. Check for fuel leaks. Make sure all fasteners are in place and tightened securely. Follow the maintenance instructions beginning on page 21.
4. Make sure the cutting attachment does not rotate at engine idle speed. Refer to Idle Speed Adjustment, page 14.
5. Inspect the cutting attachment and replace any parts that are cracked, chipped or damaged before using the Trimmer/ Brushcutter.
6. Make sure the cutting attachment is installed and positioned correctly before using the Trimmer/ Brushcutter.
7. Never use a cutting attachment or replacement parts that are not approved by Hayter dealer.

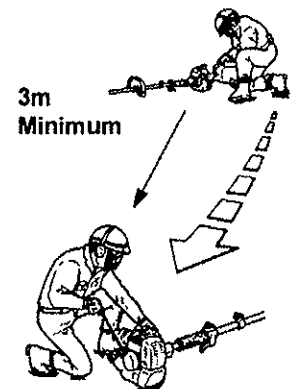
8. Maintain the Trimmer/ Brushcutter according to the recommended maintenance intervals and procedures in the Maintenance section beginning on page 21.
9. If running problems or excessive vibration occur, stop immediately and inspect the unit for the cause. If the cause cannot be determined or is beyond your ability to correct, contact your local Hayter service dealer for repair.

## Fuel safety

1. Petrol is highly flammable and must be handled and stored carefully. Use a container approved for storing petrol.
2. Mix and pour fuel outdoors and where there are no sparks or flames.
3. Do not smoke near fuel or Trimmer/ Brushcutter, or while using the Trimmer/ Brushcutter.
4. Do not overfill the fuel tank. Stop filling 10mm-20mm from the top of the tank.
5. Wipe up any spilled fuel before starting the engine.
6. Move the Trimmer/ Brushcutter at least 3m away from the fueling location before starting the engine.
7. Do not remove the Trimmer/ Brushcutter fuel tank cap immediately after stopping the engine.
8. Allow the engine to cool before refueling.
9. Drain the tank and run the engine dry before storing the unit.
10. Store fuel and Trimmer/ Brushcutter away from open flame, sparks and excessive heat. Make sure fuel vapors cannot reach sparks or open flames from water heaters, furnaces, electric motors, etc.



Wipe up any spilled fuel



## Trimmer/ Brushcutter Operating safety

1. THIS TRIMMER/BRUSHCUTTER CAN CAUSE SERIOUS INJURIES. Read the instructions carefully. Be familiar with all controls and the proper use of the Trimmer/ Brushcutter.
2. Never allow children to operate the Trimmer/ Brushcutter. It is not a toy. Never allow adults to operate the unit without first reading this Owner's Handbook.
3. Avoid using the Trimmer/ Brushcutter near rocks, gravel, stones and similar material that would cause harmful missiles.
4. Keep children, bystanders and animals outside a 15m radius from the operator and Trimmer/ Brushcutter.
5. If you are approached while operating the Trimmer/ Brushcutter, stop the engine and cutting attachment rotation.
6. Use the Trimmer/ Brushcutter only in daylight or good artificial light.
7. Never operate the Trimmer/ Brushcutter without proper guards in place.
8. Do not put hands or feet near or under any rotating parts. Keep clear at all times. Keep all parts of your body away from the rotating cutting attachment and hot surfaces such as the muffler.
9. When cutting heavy brush, always swing the Brushcutter from right to left to prevent kick-back.
10. Keep a firm footing and balance. Do not overreach.
11. Use the right tool for the job. Do not use the Trimmer/ Brushcutter for any job that is not recommended by HAYTER.

## Symbol explanation



Indicates Warning, Danger, Caution.



Read and understand this Owner's Handbook.



- Wear head protection, where there is a risk of falling objects.
- Wear eye protection, while operating the Trimmer/Brushcutter.
- Wear ear protection, while operating the Trimmer/Brushcutter.



Wear gloves, while operating the brushcutter with metal blade.



Wear foot protection, while operating the brushcutter with metal blade.



Do not put hands near or under rotating cutting attachment.



Do not put feet near or under rotating cutting attachment.



The distance between the machine and bystanders should be at least 15m.



Beware of thrown objects such as ricochet.



Fire Danger: Petrol is flammable. Never pour fuel to Trimmer/brushcutter fuel tank with the running or hot engine. Do not smoke or place any sources of heat in the vicinity of fuel.



Breathing exhaust fumes cause death. Never start or run the engine inside a close room or building.



Hot Surface Warning: Contact may cause burns. During use and some time after stopping the engine, the engine and the gearcase are very hot. Do not touch the hot surface of the unit such as cylinder, muffler and gearcase.



Maximum speed of output axle,  $\text{min}^{-1}$

Max.  
8000  $\text{min}^{-1}$



Guaranteed sound power level 113/116 dB(A)



Unleaded Petrol



Oil

# Assembly

## Loop Handle Installation

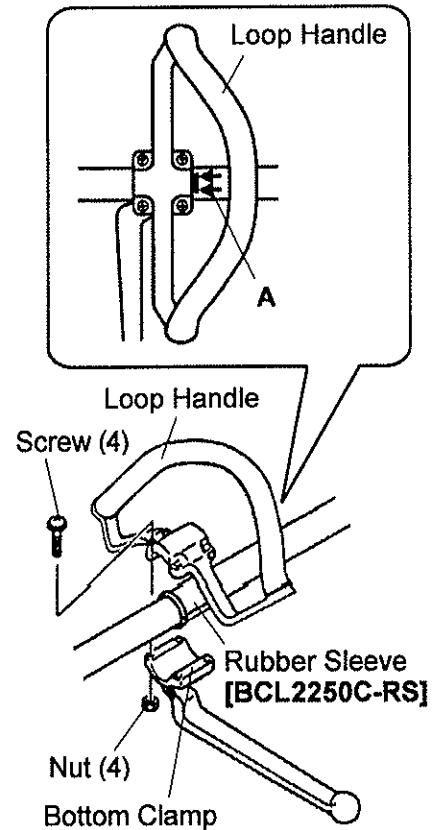
Loop handle must be assembled gearcase/bearing case side from the arrow (A).

### [BCL2250C-RS]

1. Place the rubber sleeve around the shaft.
2. Place the loop handle and the bottom clamp over the rubber sleeve.
3. Install the four screws and nuts. Tighten the screws evenly.

### [BCL2250RS]

1. Place the loop handle and the bottom clamp on the shaft.
2. Install the four screws and nuts. Tighten the screws evenly.



## Horn Handle Installation

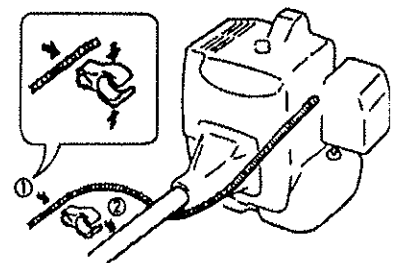
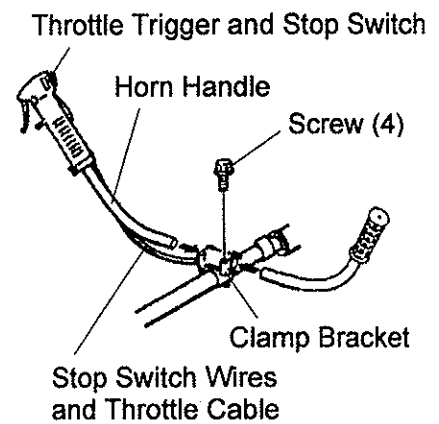
### [BC250H-RS, BC420H-RS]

**IMPORTANT:** Be careful not to damage the throttle cable and stop switch wires when you remove the horn handles from the carton.

1. Loosen the four screws on the top of the clamp bracket.
2. Insert the left and right horn handles into the clamp bracket.  
**Note:** The horn handle with the throttle trigger and stop switch goes on the right-hand side of the Trimmer/ brushcutter.
3. Adjust the horn handles to the desired position, then tighten the four screws.

### [BC420H-RS]

4. Clamp and attach the throttle cable assembly as shown.



### [BC420H-RS]

## Installing Guard

### WARNING

#### POTENTIAL HAZARD

- Foreign objects can be thrown by Trimmer/Brushcutter.

#### WHAT CAN HAPPEN

- Contact with thrown objects can cause personal injury.

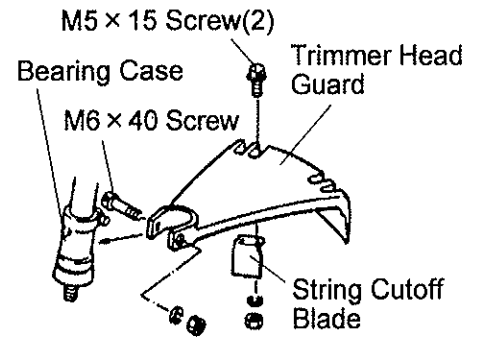
#### HOW TO AVOID THE HAZARD

- Never operate the Trimmer/Brushcutter without the guard in place.

[BCL2250C-RS]

#### Trimmer Head Guard

1. Fasten the nylon line cut off blade to the guard with two M5 × 15 screws, lock washers and hex nuts as shown.
2. Push the guard onto the bearing case. Install the M6 × 40 screw and nut, tighten **ONLY AS NEEDED**.

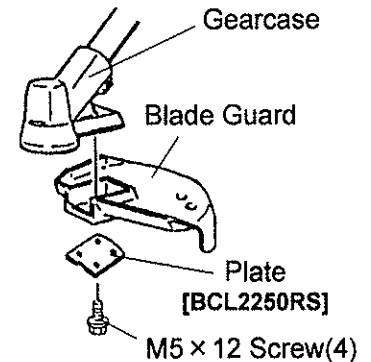


[BCL2250C-RS]

[BCL2250RS, BC250H-RS]

#### Blade Guard

Attach the blade guard to the gearcase with the four M5 × 12 screws as shown.

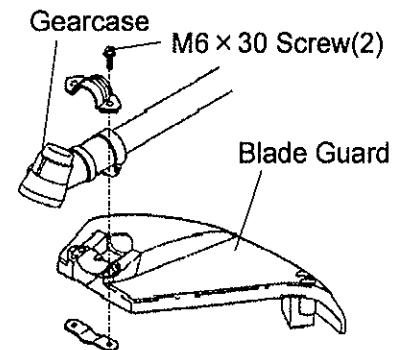


[BCL2250RS, BC250H-RS]

[BC420H-RS]

#### Blade Guard

Attach the blade guard to the gearcase with the two M6 × 30 screws as shown.



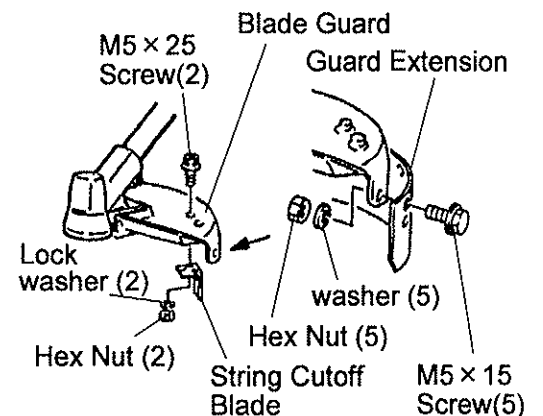
[BC420H-RS]

[BCL2250RS, BC250H-RS, BC420H-RS]

#### Trimmer Head Guard

(Install the nylon line cut off blade and guard extension to the blade guard.)

1. Fasten the nylon line cut off blade to the blade guard with two M5 × 25 screws, lock washers and hex nuts as shown.
2. Attach the guard extension to the blade guard with the five M5 × 15 screws, washers and hex nuts as shown.



[BCL2250RS, BC250H-RS, BC420H-RS]



## Installing Cutting Attachment

### Nylon Trimmer Line

#### WARNING

##### POTENTIAL HAZARD

- If the trimmer head is not adequately tightened, it can come loose from the Trimmer/Brushcutter during use.

##### WHAT CAN HAPPEN

- This may cause damage to property or personal injury.

##### HOW TO AVOID THE HAZARD

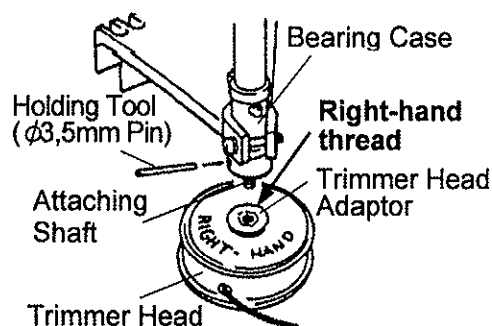
- Make sure the trimmer head is securely fastened to the attaching shaft in the bearing case/gearcase.

#### [BCL2250C-RS]

1. Align the hole in the boss adaptor with the guide slot in the bearing case.
2. Insert the  $\phi$  3,5mm pin into the hole and guide slot in the boss adaptor and bearing case to lock the attaching shaft.
3. Thread the trimmer head adaptor onto the attaching shaft, then tighten the trimmer head firmly by hand.

**Note: The trimmer head adaptor has right-hand thread.**

4. Remove the  $\phi$  3,5mm pin from the boss adaptor and bearing case.



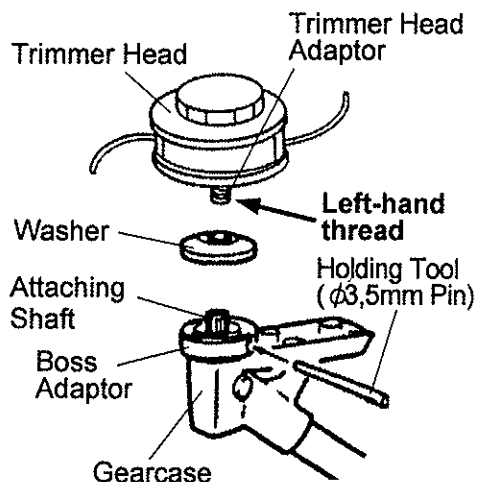
[BCL2250C-RS]

#### [BCL2250RS, BC250H-RS, BC420H-RS]

1. Align the hole in the boss adaptor with the guide slot in the gearcase.
2. Insert the  $\phi$  3,5mm pin into the hole in the boss adaptor and the guide slot in the gearcase to lock the attaching shaft.
3. Thread the trimmer head adaptor into the attaching shaft, then tighten the trimmer head by hand.

**Note: The trimmer head adaptor has left-hand thread.**

4. Remove the  $\phi$  3,5mm pin from the boss adaptor and gearcase.



[BCL2250RS, BC250H-RS, BC420H-RS]

## Brushcutter Blade [All Models except BCL2250C-RS]

### WARNING

#### POTENTIAL HAZARD

- If the Brushcutter blade is not adequately tightened, it can come loose from the Brushcutter during use.

#### WHAT CAN HAPPEN

- This may cause damage to property or personal injury.

#### HOW TO AVOID THE HAZARD

- Make sure the Brushcutter blade is securely fastened to the attaching shaft in the gearcase.

1. Remove the blade bolt, stabilizer and clamping washer from the attaching shaft out of the gearcase.

Note: The blade bolt has left-hand thread.

### WARNING

#### POTENTIAL HAZARD

- Brushcutter blade is sharp.

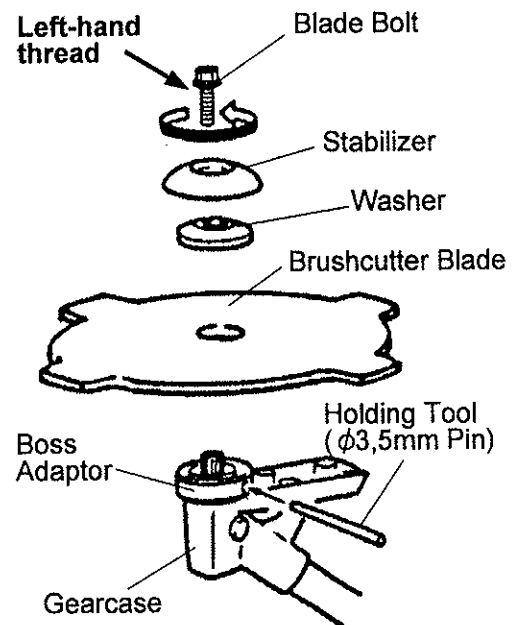
#### WHAT CAN HAPPEN

- Contact with sharp blade can cause personal injury.

#### HOW TO AVOID THE HAZARD

- Wear gloves when you handle the blade.

2. Install the brushcutter blade onto the boss adaptor, then reinstall the clamping washer, stabilizer and blade bolt.
3. Align the hole in the boss adaptor with the guide slot in the gearcase.
4. Insert the  $\phi 3,5\text{mm}$  pin into the hole in the boss adaptor and the guide slot in the gearcase to lock the attaching shaft.
5. Torque the blade bolt to  $11/12\text{ Nm}$ .
6. Remove the  $\phi 3,5\text{mm}$  pin from the boss adaptor and gearcase.



## Installing Blade Cover [All Models except BCL2250C-RS]

### WARNING

#### POTENTIAL HAZARD

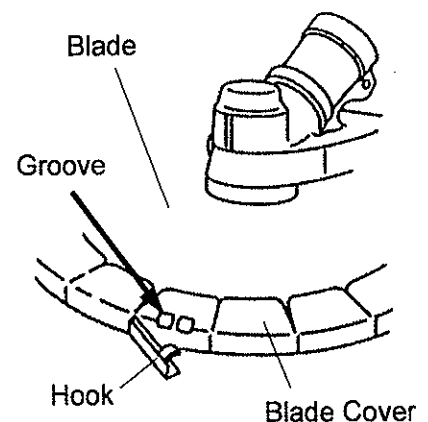
- Brushcutter blade is sharp.

#### WHAT CAN HAPPEN

- Contact with sharp blade can cause serious personal injury.
- An unprotected blade is subject to damage.

#### HOW TO AVOID THE HAZARD

- Keep the blade cover on the blade when the Brushcutter is not in use. This will protect persons from injury from blade contact, and will protect the blade from damage.



1. Insert the tips of the blade into the grooves in the blade cover.
2. Wind the cover around the blade, then snap the hook to secure the blade cover.

## Attaching Shoulder Hanging Strap/ Shoulder Harness

[All Models except BCL2250C-RS]

### WARNING

#### POTENTIAL HAZARD

- Without the Shoulder Hanging Strap/ Shoulder Harness Installed on the Trimmer/Brushcutter, the blade can produce side thrust which can expose the operator and bystanders to blade contact.

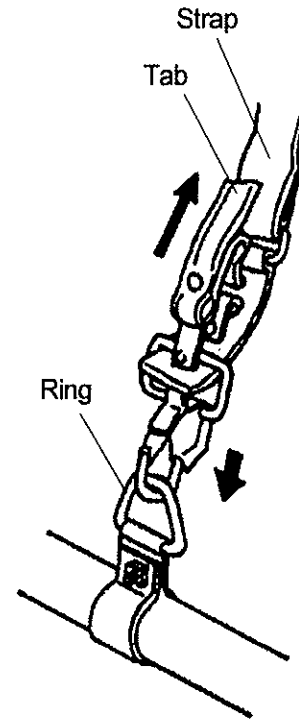
#### WHAT CAN HAPPEN

- Contact with Brushcutter blade can cause severe personal injury.

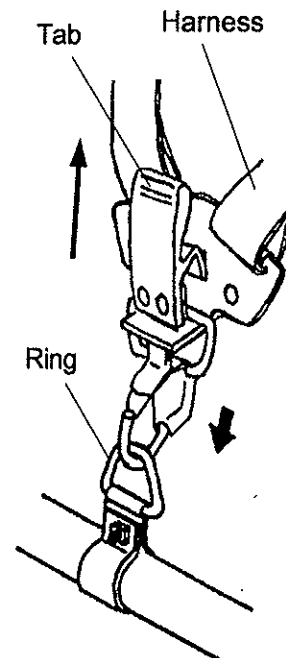
#### HOW TO AVOID THE HAZARD

- Never operate the Trimmer/Brushcutter without installing and using the Shoulder Hanging Strap/ Shoulder Harness.

Snap the Hook into the ring on the drive shaft. To detach the Strap / harness quickly from the Trimmer/Brushcutter, pull upward on the Tab.



[BCL2250RS, BC250H-RS]



[BC420H-RS]

# Before Operation

## Oil and Fuel

1. Mix and pour fuel outdoors and where there are no sparks or flames.
2. Always shut off the engine before refueling. Never remove the Trimmer/Brushcutter fuel tank cap while the engine is running or immediately after stopping the engine.

### **WARNING**

#### **POTENTIAL HAZARD**

- Petrol contains gasses that can build up pressure inside a fuel tank.

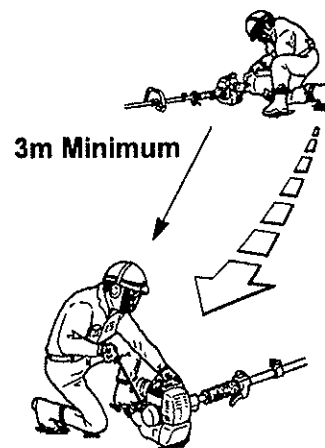
#### **WHAT CAN HAPPEN**

- fuel can be sprayed on you when removing fuel tank cap.

#### **HOW TO AVOID THE HAZARD**

- Remove fuel tank cap slowly to avoid injury from fuel spray.

3. Always open the fuel tank cap slowly to release any possible pressure inside the tank.
4. Do not overfill the fuel tank. Stop filling 10mm from the top of the tank.
5. Tighten the fuel tank cap carefully but firmly after refilling.
6. Wipe up any spilled fuel before starting the engine.
7. Move the Trimmer/Brushcutter at least 3m away from the fueling location and fuel storage container before starting the engine.



### **DANGER**

#### **POTENTIAL HAZARD**

- In certain conditions petrol is extremely flammable and highly explosive.

#### **WHAT CAN HAPPEN**

- A fire or explosion from petrol can burn you, others and cause property damage.

#### **HOW TO AVOID THE HAZARD**

- Use a funnel and fill the fuel tank outdoors, in an open area, when the engine is cold. Wipe up any petrol that spills.
- Do not fill the fuel tank completely. Add petrol until the level is 10mm below the bottom of the filler neck. This empty space in the tank allows petrol to expand.
- Never smoke when handling petrol, and stay away from an open flame with petrol in an approved container and keep it out of the reach of children.
- Do not mix fuel for more than two months use.

## Recommended Oil Type

Only use a two-stroke engine oil formulated for use in high-performance, air-cooled two-stroke engines.

**IMPORTANT: Do not use two-stroke oil intended for water cooled outboard motors. This type of two-stroke engine oil does not have the additives for air-cooled engines and can cause engine damage. Do not use automotive motor oil. This type of oil does not have the proper additives for air-cooled two-stroke engines and can cause engine damage.**

### Recommended Fuel Type

Use clean, unleaded petrol with an octane rating of 85 or higher. Use of unleaded petrol results in fewer combustion chamber deposits and longer spark plug life. Use of premium grade fuel is not necessary or recommended.

### Mixing Petrol and Oil

**IMPORTANT: The engine used on this Trimmer/ Brushcutter is of a two-stroke design. The internal moving parts of the engine, i.e., crankshaft bearings, piston pin bearings and piston to cylinder wall contact surfaces, require oil mixed with the petrol for lubrication.**

**Failure to mix oil with petrol at the appropriate ratio will cause major engine damage which will void your warranty.**

**Fuel Mixture:** The mixed ratio is 50 parts unleaded petrol to 1 part synthetic oil only. For mineral oil 25 parts unleaded petrol to 1 part mineral oil only.

### Fuel Mixture Charts

50:1 = 2 Stroke Synthetic Oils

Unleaded Petrol (50:1)Oil (Synthetic Oil)		
With	1 litre petrol mix	20 ml oil
	2 litre	40 ml
	5 litre	100 ml

25:1 = 2 Stroke Mineral Oils

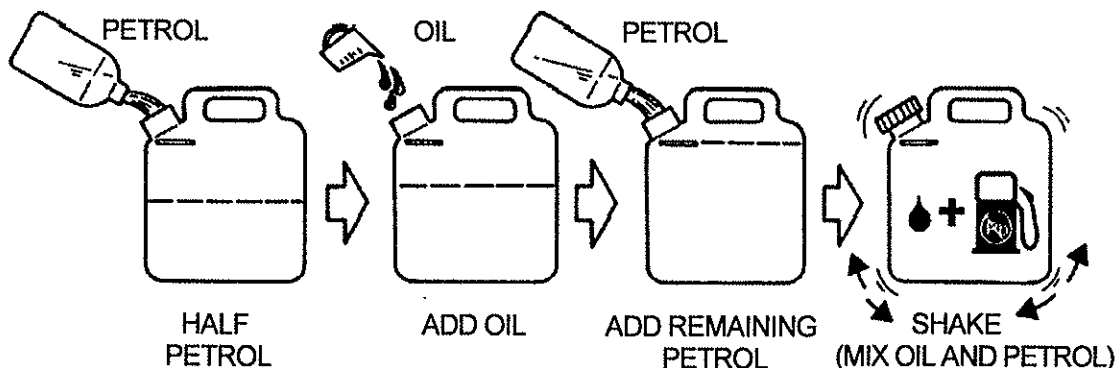
Unleaded Petrol (50:1)Oil (Synthetic Oil)		
With	1 litre petrol mix	40 ml oil
	2 litre	80 ml
	5 litre	200 ml

**IMPORTANT: USE CORRECT MIXTURE OTHERWISE WILL CAUSE ENGINE DAMEGE.**

### Mixing Instructions

**IMPORTANT: Never mix petrol and oil directly in the Trimmer/ Brushcutter fuel tank.**

1. Always mix fuel and oil in a clean plastic container approved for petrol.
2. Mark the container to identify it as fuel mix for the Trimmer/Brushcutter.
3. Use regular unleaded petrol and fill the container with half the required amount of petrol.
4. Pour the correct amount of oil into the container then add the remaining amount of petrol.



5. Close the container tightly and shake it to evenly mix the oil and the petrol before filling the tank on the Trimmer/Brushcutter.
6. When refilling the Trimmer/Brushcutter fuel tank, clean around the fuel tank cap to stop dirt and debris from entering the tank during cap removal.
7. Always shake the premix fuel container before filling the fuel tank.
8. Always use a spout or funnel when fueling to reduce fuel spillage.  
Hayter would recommend the use of a funnel with a filter when filling fuel tank.
9. Fill the tank only to within 10mm from the top of the tank. Do not fill to the top of the tank filler neck.

## Starting and Stopping

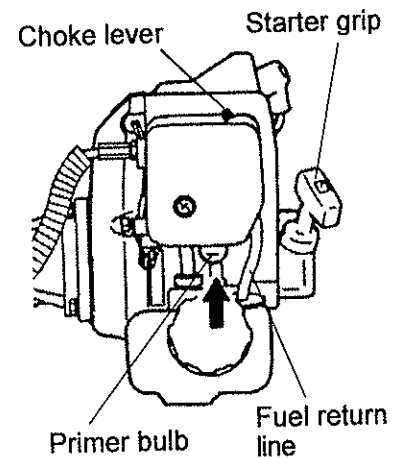
### Before Starting the Engine

1. Fill the fuel tank as instructed in the Before Operation section of this handbook.
2. Rest the Trimmer/Brushcutter on the ground.
3. Make sure the cutting attachment is clear of any broken glass, nails, wire, rocks or other debris.
4. Keep all bystanders, children and animals away from the working area.

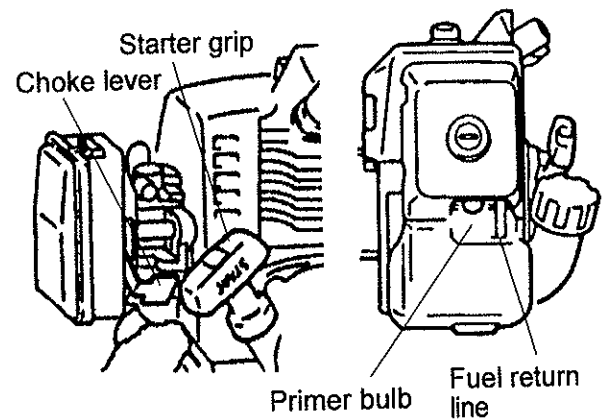
### Cold Starting Procedure

This engine is equipped with a fuel primer and a choke system. To start a "cold" engine properly, perform the following procedure:

1. Turn the choke lever to the Close position (↘).
  2. Pump the primer bulb until fuel can be seen flowing through the fuel return line to the fuel tank. Flowing fuel should be almost clear, not foamy or full bubbles.
  3. With the START/STOP switch IN THE "ON" position, and the throttle trigger position in Fast-idle position, pull the starter cord (BCL2250C-RS, BCL2250RS Pull out the recoil rope smoothly until green mark can be seen on the rope. Gently return the rope into recoil starter. Engine will rotate and start by the power of the built-in main spring. For (BC250H-RS, BC420H-RS) Pull out the recoil rope smoothly to start and return the rope.
- After the engine has started, turn the choke lever to the open position (↗). Then squeeze and release the throttle trigger to allow it to return to the idle position.
- If the engine stops running before you turn the choke lever to the open position (↗).
- Go ahead and open the choke, pull the starter cord with the throttle trigger positioned at fast-idle start position.



[BCL2250C-RS, BCL2250RS, BC250H-RS]



### Hot Restart

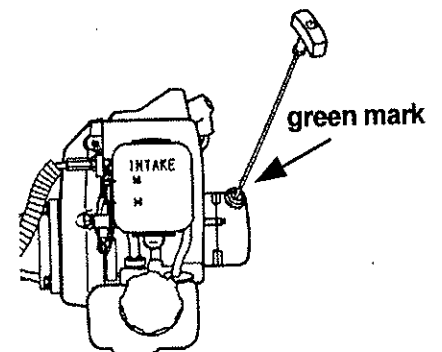
To start the engine that is already warmed up (hot restart).

1. Turn the choke lever to the Open position (↗), and set the stop switch to the "START/ON" position.
2. Leave the throttle trigger in the idle position and pull the starter grip.
3. If the engine fails to start after three to four pulls, follow the instructions in the Cold Starting Procedure section above.

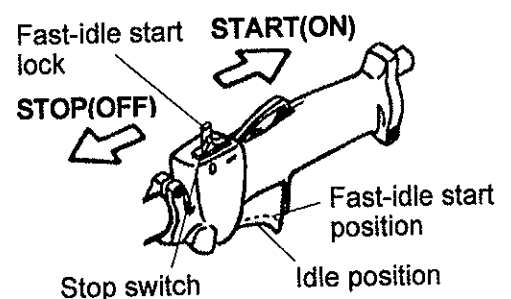
If the engine fails to start after you follow the above procedures, contact your local HAYTER dealer.

### To Stop the Engine

1. Release the throttle trigger.
2. Slide the stop switch to "STOP/OFF" position.



[BCL2250C-RS, BCL2250RS]



## Idle Speed Adjustment

This Trimmer/Brushcutter is equipped with non-adjustable fuel mixture carburettor. The idle speed is the only adjustment for the operator.

### WARNING

#### POTENTIAL HAZARD

- Engine must be running to make carburettor adjustments.
- When engine is running, attached tool and other parts are moving.

#### WHAT CAN HAPPEN

- Contact with moving attached tool or other moving parts could cause serious personal injury or death.

#### HOW TO AVOID THE HAZARD

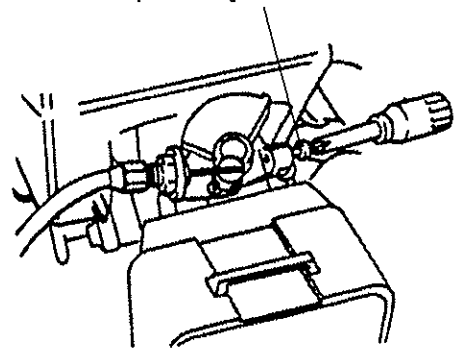
- Keep hands, feet and clothing away from attached tool and other moving parts.
- Keep all bystanders and pets away from unit while making carburettor adjustments.

The cutting attachment may be moving during idle speed adjustment.

Wear the recommended personal protective equipment and observe all safety instructions.

Keep hands and body away from the cutting attachment.

Idle Speed Adjustment Screw



When the throttle trigger is released, the engine should return to an idle speed. The correct speed for model BC420H-RS is 2400 – 2800 min<sup>-1</sup>, and for others are 2700 - 3300 min<sup>-1</sup> (or just below the clutch engagement speed ). The cutting attachment must not move and the engine should not stall (stop running) at engine idle speed.

To adjust the engine idle speed, rotate the idle speed adjustment screw on the carburettor.

- Turn the idle speed screw in (clockwise) to increase the engine idle speed.
- Turn the screw out (counterclockwise) to decrease the engine idle speed.

**If idle speed adjustment is necessary, and after adjustment the cutting attachment rotates or the engine stalls, stop using the Trimmer/Brushcutter immediately!**

Contact your local Hayter dealer for assistance and servicing.

# Operation

## WARNING

### POTENTIAL HAZARD

- Foreign objects can be thrown by Trimmer/Brushcutter.

### WHAT CAN HAPPEN

- Contact with thrown objects can cause personal injury.

### HOW TO AVOID THE HAZARD

- Never operate the Trimmer/Brushcutter without the cutting attachment guard in place.

## Trimmer/Brushcutter Operating Position

### [BCL2250C-RS]

Before using the Trimmer, check the following:

1. The Trimmer must be on the operator's right side.
2. The operator's right hand should be holding the shaft grip, with the fingers on the throttle trigger. The right arm should be slightly bent.
3. The left hand should be holding the loop handle with the fingers and thumb fully enclosed around the grip. The left arm may be extended.



### [BCL2250RS]

Before using the Trimmer/Brushcutter, check the following:

1. The operator must be wearing the shoulder hanging strap attached to the Trimmer/Brushcutter, and the Trimmer/Brushcutter must be on the operator's right side.
2. The operator's right hand should be holding the shaft grip, with the fingers on the throttle trigger. The right arm should be slightly bent.
3. The left hand should be holding the loop handle with the fingers and thumb fully enclosed around the grip. The left arm may be extended.
4. The Trimmer/Brushcutter weight should be evenly distributed between the arms. The cutting attachment should be near and parallel to the ground.
5. Accelerate and hold the engine at cutting speed before entering the grasses to be cut.
6. Always release the throttle trigger and allow the engine to return to idle speed when not cutting.
7. Stop the engine when moving between work sites.





**[BC250H-RS, BC420H-RS]**

Before using the Trimmer/Brushcutter, check the following:

1. The operator must be wearing the shoulder hanging strap/ shoulder harness attached to the Trimmer/Brushcutter, and the Trimmer/Brushcutter must be on the operator's right side.
2. The operator's right hand should be holding the right-hand horn handle grip, with the fingers on the throttle trigger.
3. The left hand should be holding the left-hand horn handle grip with the fingers and thumb fully enclosed around the grip.
4. Accelerate and hold the engine at cutting speed before entering the grasses to be cut.
5. Always release the throttle trigger and allow the engine to return to idle speed when not cutting.
6. Stop the engine when moving between work sites.
  - If the cutting attachment becomes jammed, stop the engine immediately.
  - Make certain all moving parts have stopped and disconnect the spark plug before inspecting the equipment for damage.
  - Never use a Trimmer/Brushcutter that has a chipped, cracked or broken cutting attachment or guard.

Shoulder Hanging Strap/  
Shoulder Harness



## Cutting with Nylon Trimmer Line

### WARNING

#### POTENTIAL HAZARD

- Use of improper line could cause line to break and be thrown in operator's or bystander's direction.

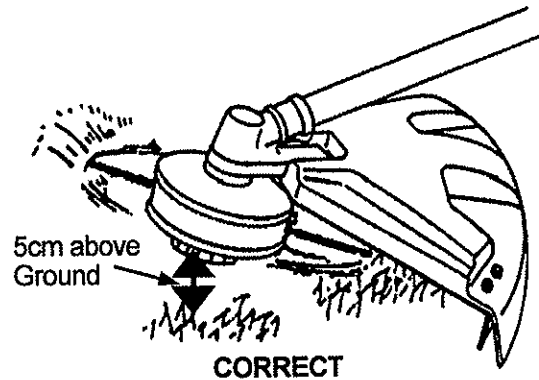
#### WHAT CAN HAPPEN

- Use of improper line could result in serious personal injury.

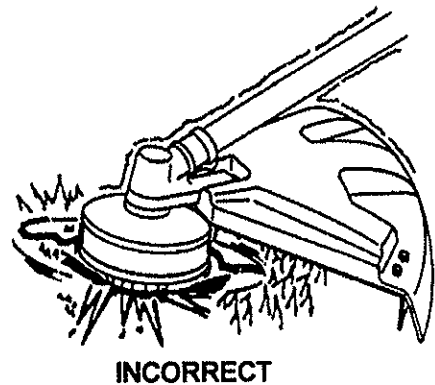
#### HOW TO AVOID THE HAZARD

- Use only good quality, commercial grade, weld resistant trimmer line with a diameter of 2,4mm.
- Do not use any type of wire or other string-like substance. Do not use metal-reinforced line.

- The tip of the line does the cutting. The line should stay extended while cutting. Hold the bottom of the trimmer head about 5cm above the ground.

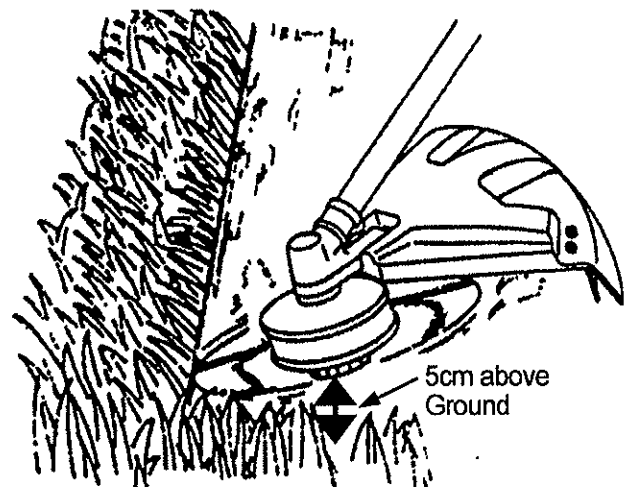


- Do not force the line into the material. Forcing the line will cause it to slap against the grasses, increasing line usage and causing poor cutting results.



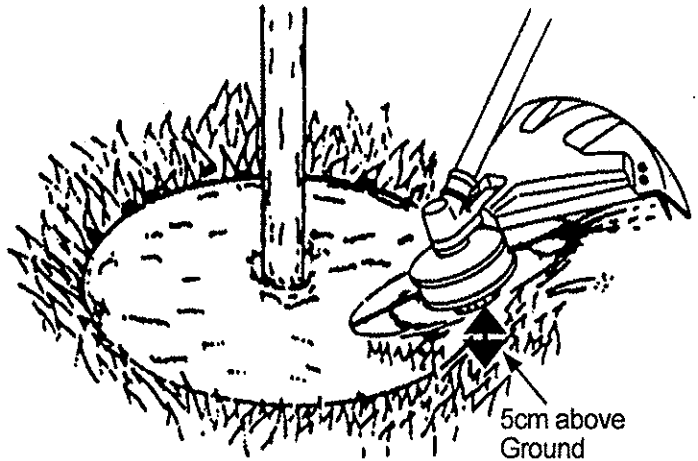
#### Trimming

Hold the bottom of the trimmer head about 5cm above the ground and at an angle. Allow only the tip of the line to make contact.



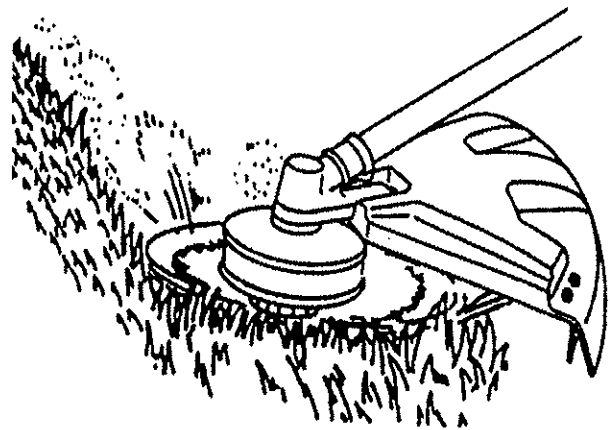
## Scaling

To remove unwanted vegetation, hold the trimmer head about 5cm above the ground and at an angle. Allow the tip of the line to strike the ground cutting the vegetation off at the surface.



## Mowing

Keep the line parallel to the ground and use a gentle side-to-side motion.



## DIATOP BUMP 4 OPERATION

### CAUTION:

- DO NOT ROTATE THE HEAD GREATER THAN 10000MIN<sup>-1</sup>.
- DO NOT BUMP THE HEAD AT HIGH REVOLUTION GREATER THAN 4500MIN<sup>-1</sup> AND WHEN IT IS STOPPED TO AVOID DAMAGE.
- DO NOT HIT THE HEAD TO HARD OBJECTS AS CONCRETE, ROCKS, AND WOODS ETC.
- KEEP ALL PERSONS AND ANIMALS OUT OF TRIMMING AREA, 15M AND PAY ATTENTION TO PROTECT SURROUNDINGS AS CARS AND WINDOWS FROM FLYING OBJECTS.

We suggest operating the head at the rotating speed approx. 6000min<sup>-1</sup>.

Slow rotation less than 4500min<sup>-1</sup> is not good for cutting job with nylon line cutting head due to the loose tension of cutting lines.

To extend the lines, bump the downward protrusion on the head to the ground at the rotating speed less than 4500min<sup>-1</sup>.

When the line is not extended, check the head and re-wind cutting line. Refer to the section, "TO WIND CUTTING LINE".



## TO WIND CUTTING LINE

### CAUTION:

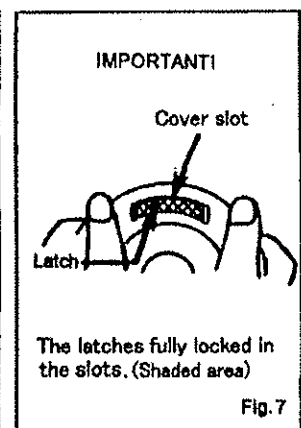
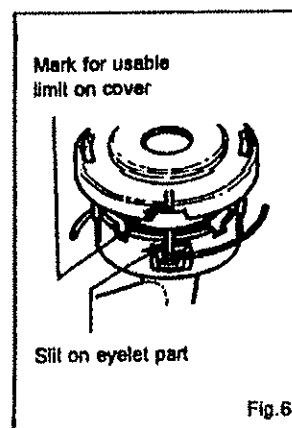
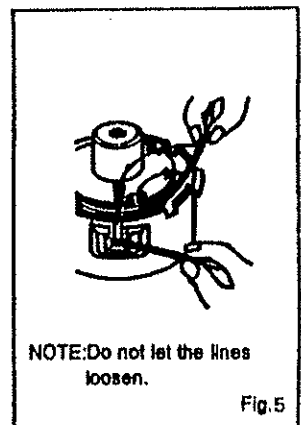
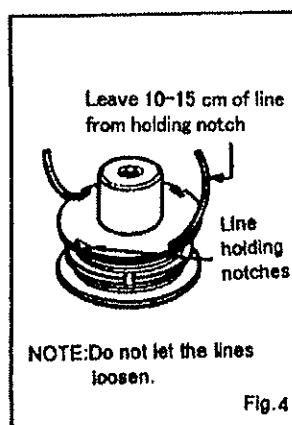
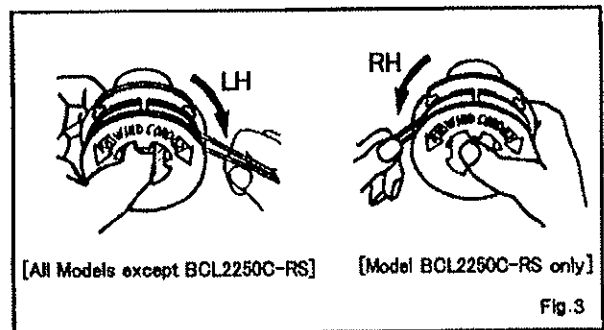
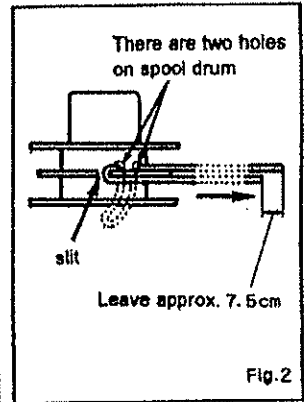
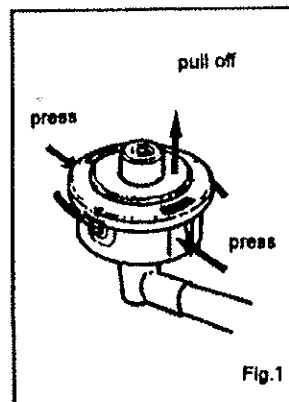
-Stop the engine and ensure that the cutting head is stationary before attempting to carry out the following procedure.

1. Apply pressure to the two latches on each side of the housing and pull off the cover -see fig 1.
2. Remove the empty spool from the housing
3. Measure and cut a 5.5 metre length of the replacement nylon line (use 2.5 mm diameter line for the best performance). Fold the length of line in half, leaving one half 7.5 cm longer than the other. Refer to fig.2. Pass the ends of the line through the centre of the spool and through the 2 holes in the centre drum. Pass the longer half through the slit in the centre flange and align both lines in the same direction in each channel of the spool in the direction of the arrow (as marked on the rear flange of the spool) -see fig 3.
4. Wind up both lines firmly in the same direction - see fig 3
5. Pass the ends of each line through the holding notches on each sides of the outer flange leaving 10-15 cm free at each end as shown - see Fig 4. Ensure that the coils remain reasonably tight by tensioning the free ends through the holding notches.
6. Ensure that the spring is correctly located in the centre of the housing and insert the spool. Check that the spool is free to move up and down against the spring tension. Push down on the spool and rotate clockwise until it locks down into position.
7. Remove each end of the nylon line from the holding notches and locate in the slits on each side of the housing into the eyelets -see fig 5.
8. Place the cover over the housing and align the latches. Press down firmly into position and ensure that both latches lock into the cover slots see Fig 6,7.

**WARNING:- It is essential that the cover is correctly assembled and latched in position, otherwise it may fly apart during operation and cause injury.**

### AUTOMATIC NYLON LINE FEED

The nylon line is fed out automatically during work by bumping the nose of the rotating cutting head firmly on the ground. Feed out new line as required.



## Cutting Direction of Brushcutter Blade

[All Models except BCL2250C-RS]

### WARNING

#### POTENTIAL HAZARD

- Cutting heavy brush from the wrong direction can cause the Brushcutter blade to kick back.

#### WHAT CAN HAPPEN

- Contact with the Brushcutter blade can cause severe personal injury.

#### HOW TO AVOID THE HAZARD

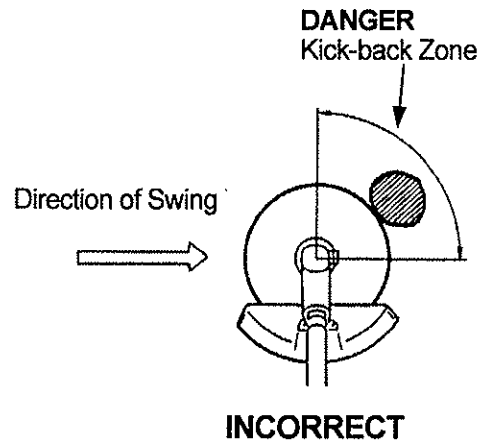
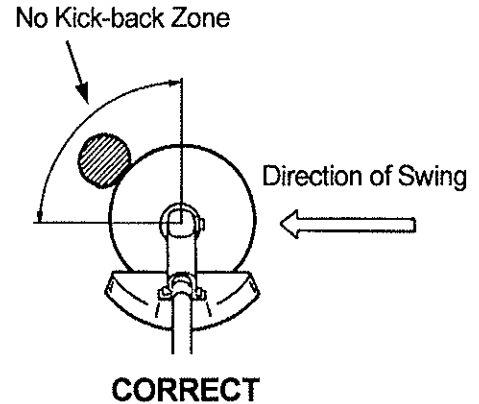
- Always swing the Brushcutter from right to left when cutting heavy brush as shown.

When cutting heavy brush, always swing the Brushcutter from right to left. Swinging the Brushcutter from left to right can cause the blade to kick back.

## Cutting Blades

[All Models except BCL2250C-RS]

1. Use only the correct blade approved for the application and model Brushcutter.
2. Carefully check the condition of the blades before and after operation.
3. Sharpen dull blades. Replace any blade that is worn, cracked or damaged.
4. If a blade produces eccentric rotation or vibration, replace the blade and the boss adaptor with genuine HAYTER parts.



# Maintenance

**Warning** : Do not disassemble the recoil starter yourself. It is very dangerous, such as personal injury !  
Ask your dealer to disassemble the recoil starter if necessary.

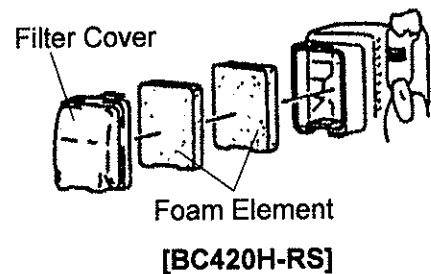
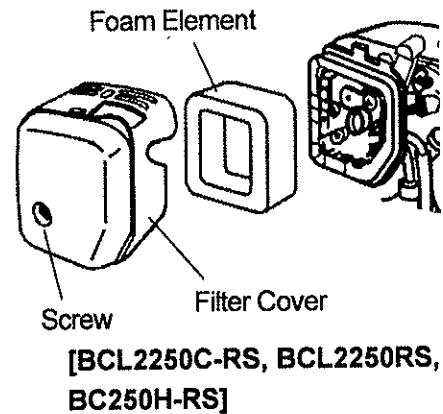
## Air Filter

### Maintenance Interval

- The air filter should be cleaned **daily**, or more often when working in extremely dusty conditions.
- Replace after every 100 hours of operation.

### Air Filter Cleaning

1. Remove the foam element.
2. Clean the foam element with warm, soapy water. Let the element dry completely.
3. Apply a light coat of SAE 30 motor oil to the foam element and squeeze out all excess oil.
4. Reassemble the foam element and filter cover.



## Fuel Filter

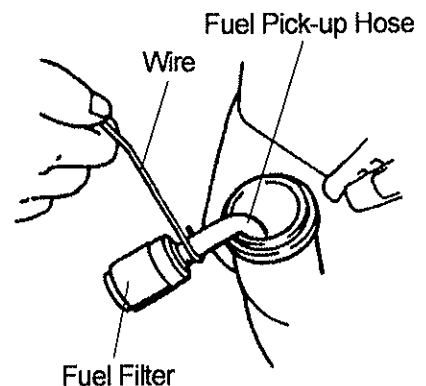
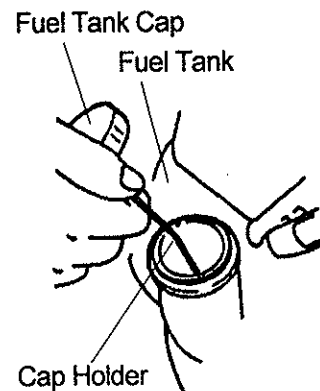
### Maintenance Interval

The fuel filter should be replaced after every 100 hours of operation.

### Fuel Filter Replacement

The fuel filter is attached to the end of the fuel pick-up hose inside the tank. To replace the fuel filter:

1. Make sure the fuel tank is empty.
2. Loosen the fuel tank cap, and pull up and remove the cap holder.
3. Using a wire hook, gently pull the fuel filter out through the fuel filler opening.
4. Grasp the fuel hose next to the fuel filter fitting and remove the filter, but do not release the hose.
5. While still holding on to fuel hose, attach the new fuel filter.
6. Drop the new fuel filter back into the fuel tank.
7. Make sure that the fuel filter is not stuck in a corner of the tank, and that the fuel hose is not doubled over (kinked) before refueling.



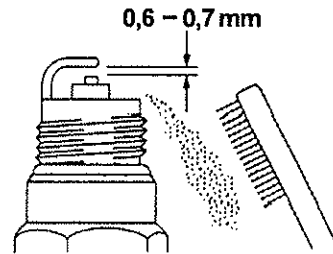
## Spark Plug

### Maintenance Interval

- The spark plug should be removed from the engine and checked after each 25 hours of operation.
- Replace the spark plug after every 100 hours of operation.

### Spark Plug Maintenance

1. Twist the high tension lead boot on the spark plug back and forth a couple of times to loosen the boot, then pull the boot off the spark plug.
2. Remove the spark plug.
3. Clean the electrodes with a stiff brush.
4. Adjust the electrode air gap to 0,6-0,7 mm.
5. Replace the spark plug if it is oil-fouled, damaged, or if the electrodes are worn down.
6. Do not over tighten the spark plug when installing. The tightening torque is 12-15 N·m.



## Cylinder Cooling Fins

### Maintenance Interval

- The cylinder cooling fins should be cleaned after every 25 hours of operation, or once a week, whichever comes first.
- Air must flow freely around and through the cylinder cooling fins to prevent engine overheating. Leaves, grass, dirt and debris buildup on the fins will increase the operating temperature of the engine, which can reduce engine performance and shorten engine life.

### Cooling Fin Cleaning

[BCL2250C-RS, BCL2250RS]

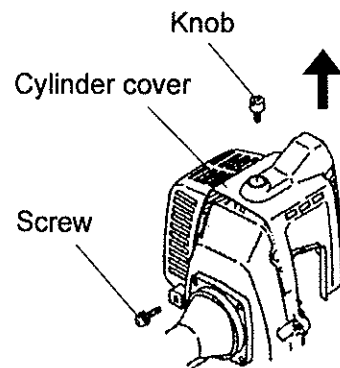
1. Remove the one screw.
2. Loosen the knob and lift off the cylinder cover.
3. Clean all dirt and debris from the cooling fins and from around the cylinder base.
4. Reinstall the cylinder cover.

[BC250H-RS]

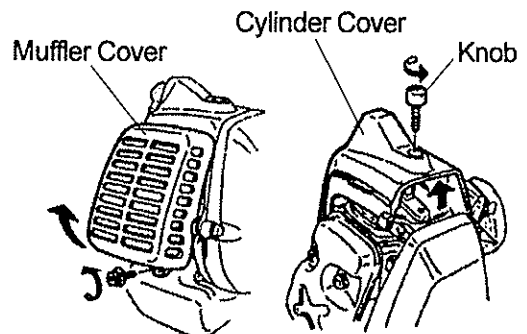
1. Remove the one screw retaining the muffler cover, and then remove the muffler cover.
2. Remove the knob and lift off the cylinder cover.
3. Clean all dirt and debris from the cooling fins and from around the cylinder base.
4. Reinstall the cylinder cover and muffler cover.

[BC420H-RS]

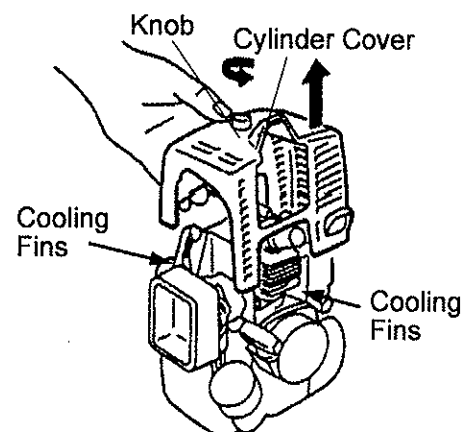
1. Loosen the knob and lift off the cylinder cover.
2. Clean all dirt and debris from the cooling fins and from around the cylinder base.
3. Reinstall the cylinder cover.



[BCL2250C-RS, BCL2250RS]



[BC250H-RS]



[BC420H-RS]

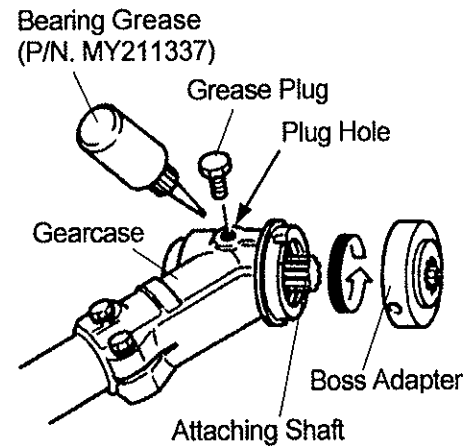
## Gearcase [All Models except BCL2250C-RS]

### Maintenance Interval

The gearcase should be checked for lubrication after each 30 hours of use.

### Gearcase Lubrication

Remove the cutting attachment and the boss adaptor. Clean any dirt and debris from the area between the boss adaptor and the gearcase. Remove the grease plug from the side of the gearcase. While rotating the attaching shaft, inject a good quality bearing grease (P/N MY211337) through the plug hole until the gearcase is full. Reinstall the boss adaptor and grease plug.



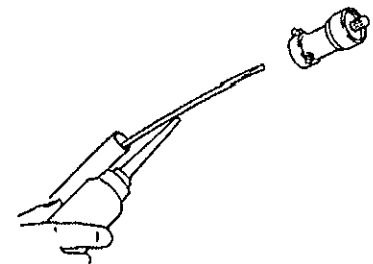
## Flexible driveshaft · BCL2250C-RS ·

### Maintenance Interval

The flexible driveshaft should be lubricated after each 30 hours of operation.

### Driveshaft Lubrication

Loosen the two screws on the bearing case and remove the bearing case. The inner flexible driveshaft is easily removed by gripping the end securely and pulling it from the driveshaft tube. Lubricate the entire length the flexible driveshaft and insert it into the driveshaft tube. If the tool attachment is connected to the power unit, twist the flexible shaft while pushing to insure that it seats correctly into the driveshaft coupler. Reinstall the bearing case onto the driveshaft tube and tighten the two screws.



## General Cleaning and Tightening

### ⚠ WARNING

#### POTENTIAL HAZARD

- When engine is running, attached tool and other parts are moving.

#### WHAT CAN HAPPEN

- Contact with cutting attachment or other moving parts could cause serious personal injury or death.

#### HOW TO AVOID THE HAZARD

- Always turn off your Trimmer/Brushcutter before you clean or perform any maintenance on it.

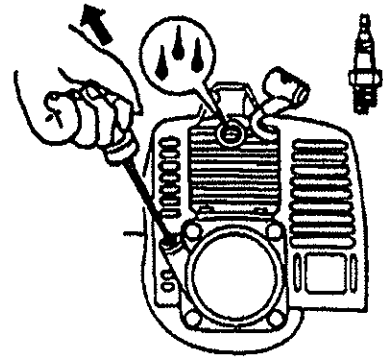
The Hayter Trimmer/Brushcutter will provide maximum performance for many, many hours if it is maintained properly. Good maintenance includes regular checking of all fasteners for correct tightness, and cleaning the entire machine.



# Storage

For long term storage of the Trimmer/Brushcutter:

1. Empty the fuel tank into a suitable fuel storage container.
2. Pump the primer bulb on the carburettor until all fuel is discharged through the clear fuel return hose.
3. Run the engine to remove any fuel that may remain in the carburettor.
4. Perform all regular maintenance procedures and any needed repairs.
5. Remove the spark plug and squirt a very small amount of engine oil into the cylinder.



## **! CAUTION**

### **POTENTIAL HAZARD**

- Oil may squirt out of the spark plug opening when you pull the starter grip.

### **WHAT CAN HAPPEN**

- Oil can cause eye injuries.

### **HOW TO AVOID THE HAZARD**

- Protect your eyes and keep your face away from the spark plug opening.

6. Pull the starter grip once.
7. Reinstall the spark plug.
8. Store the Trimmer/Brushcutter in a dry place away from excessive heat, sparks or open flame.

# Troubleshooting

Problem	Cause	Action
Engine will not start	<ul style="list-style-type: none"> <li>• STOP switch set to off position</li> <li>• Empty fuel tank</li> <li>• Primer bulb wasn't pushed enough</li> <li>• Engine flooded</li> </ul>	<ul style="list-style-type: none"> <li>• Move switch to on position</li> <li>• Fill fuel tank</li> <li>• Press primer bulb until fuel flows through fuel return line</li> <li>• Use warm engine starting procedure</li> </ul>
Engine will not Idle	<ul style="list-style-type: none"> <li>• Idle speed set incorrectly</li> </ul>	<ul style="list-style-type: none"> <li>• Set Idle speed</li> </ul>
Engine lacks power or stalls when cutting	<ul style="list-style-type: none"> <li>• Throttle wire has come loose</li> <li>• Dirty air filter</li> </ul>	<ul style="list-style-type: none"> <li>• Tighten throttle wire</li> <li>• Clean or replace air filter</li> </ul>

If further assistance is required, contact your local authorized HAYTER service dealer.

# Specifications

	BCL2250C-RS	BCL2250RS	BC250H-RS	BC420H-RS
Engine displacement, cm <sup>3</sup>	22,5	22,5	25,4	41,5
Idling speed, min <sup>-1</sup>	3000	3000	3000	2600
Recommended maximum engine speed, min <sup>-1</sup>	10000	10900	10700	10400
Speed of output axle, min <sup>-1</sup>	10000	8000	8000	8000
Maximum engine power, according to ISO 8893, kW	0,59	0,59	0,74	1,33
Spark plug	NGK BPMR6Y	NGK BPMR6Y	NGK BPMR6Y	NGK BPMR6Y
Electrode gap, mm	0,6-0,7	0,6-0,7	0,6-0,7	0,6-0,7
Type of carburettor	Diaphragm	Diaphragm	Diaphragm	Diaphragm
Fuel tank capacity, litres	0,55	0,55	0,7	1,0
Weight without fuel, cutting attachment and guard, kg	4,1	4,4	5,4	7,8
Grass blade		Ø230 - 4 teeth	Ø230 - 4 teeth	Ø255 - 4 teeth
Trimmer head	DIATOP BUMP4-R	DIATOP BUMP4-L	DIATOP BUMP4-L	DIATOP BUMP5-L

## Technical data

### Noise levels

Equivalent sound pressure level ( $L_{pAeq}$ ), measured according to ISO22868, dB(A)

Grass blade:		88,0	90,5	95,0
Trimmer head:	92,0	92,0	92,5	96,0
Guaranteed sound power level ( $L_{WA,g}$ ), determined according to directive 2000/14/EC, dB(A)				
Equivalent sound power level ( $L_{WA}$ ), measured according to ISO3744, 22868 dB(A)	113	113	113	116
	111	111	111	113

### Vibration values

Vibration values ( $a_{w,eq}$ ) on the handles measured according to ISO 22867, m/s<sup>2</sup>

Grass blade, front/rear handles:		4,5 / 5,7		
Trimmer head, front/rear handles:	4,2/5,4	4,5 / 5,8		
Grass blade, left/right handles:			5,9 / 5,4	3,8 / 3,4
Trimmer head, left/right handles:			5,8 / 5,7	4,1 / 3,7

## LIMITED WARRANTY

Hayter Limited warrants to the original user/purchaser that this unit shall be free from defects in material and workmanship under normal use and service for a period of three years from date of purchase. To qualify for the full benefit of the warranty, the Warranty Registration Card must be returned. The Warranty Registration Card which is part of the Owners Handbook package, please complete and return. Subject to the conditions and exclusions noted in this limited warranty, we shall at our option, repair or replace any warranted part during the applicable period. If you are in doubt or experience any difficulty, please consult a Hayter Authorised Service Dealer for Clarification.

To qualify for the extended warranty (second and third year) of the three year limited warranty the machine must have annual services carried out by an Authorised Hayter Service Dealer. These chargeable services should be carried out within 12 and 24 months of the date of purchase.

**A 90 day warranty period applies to those items which are subject to normal wear and tear e.g. string trimmer head, brush cutter blades, cutter bars, cables and other consumable wearing parts.**

**Excluded from the warranty:-Leaking carburettors, clogged fuel pipes, sticking valves, or other damaged caused by using contaminated or stale fuel.**

**Damage/wear caused by improper air cleaner maintenance.**

**Damage or remedial service charges attributed to the incorrect fuel/oil mixture.**

**Refer to owners manual for correct mixture.**

This warranty does not apply to any unit that has been tampered with, altered, misused, abused or used for hire, and will become invalid if non genuine Hayter parts are fitted. This warranty does not cover minor mechanical adjustments unless they are due to defective material or workmanship. Consult the Owner's Handbook or a Hayter Authorised Service Dealer for assistance when making these adjustments.

**A warranty period of 90 days applies to machines used for commercial purposes.**

To make a warranty claim, return the unit to a Hayter Authorised Service Dealer along with proof of purchase stating the machine serial number and date of purchase. Subject to the conditions and exclusions in this limited warranty, the authorised dealer will, at our option, repair or replace any warranted part within the duration of the warranty period.

This limited warranty gives specific legal rights and is in addition to any statutory rights to which you may be entitled and your statutory rights are not affected by this warranty. If you need additional information concerning this written warranty, or assistance in obtaining services, please write to: Hayter Limited, Service Department, Spellbrook, Bishop's Stortford, Hertfordshire, CM23 4BU.

UK ONLY: Details of your local Hayter authorised dealer are contained in The Yellow Pages or contact:-  
Freephone 0800 616298: or visit the Hayter website at [www.hayter.co.uk](http://www.hayter.co.uk)

# EC DECLARATION OF CONFORMITY

Name and address of manufacturer:

Maruyama Mfg. Co., Inc.

4-15, Uchi-kanda 3-Chome, Chiyoda-ku, Tokyo, 101-0047 Japan

Name and address of the technical documentation keeper:

Junichi Sugimoto, Factory Manager of NIPPON KREIS CO., LTD.

1624-1 Konumata Togane-Shi, Chiba 283-0044 Japan

NIPPON KREIS CO., LTD. is owned by Maruyama Mfg. Co., Inc. And also NIPPON KREIS CO., LTD. is entrusted the development and production of the equipment.

Herewith declares that:

HAYTER Brush cutters*1/Grass trimmers*2						
*1: The hand-held Brush cutters are powered by internal combustion engine.						
*2: The hand-held Grass trimmers are powered by internal combustion engine.						
Brush cutter is converted to Grass trimmer by changing cutting attachment, and vice versa.						
Model	Serial No. from	Use	Net installed power (kw/min <sup>-1</sup> )	Cutting width (mm)	Measured sound power level (db <sub>A</sub> )	Guaranteed sound power level (db <sub>A</sub> )
BCL2250C-RS	460E-0000001	Grass trimmer only	0.58/7,000	420	111	113
BCL2250RS	461E-0000001	Both Brush cutter and Grass trimmer	0.58/7,000	430	111	113
BC250H-RS	462E-0000001	Both Brush cutter and Grass trimmer	0.74/7,000	420	111	113
BC420H-RS	463E-0000001	Both Brush cutter and Grass trimmer	1.33/6,500	430	113	116

-does comply with the provisions of the "Machinery" Directive 98/37/EC, Annex II A.

-does comply with the provisions of the "Electromagnetic compatibility" 89/336/EEC, and applicable supplements.

-does comply with the provisions of the "Noise emission in the environment by equipment for use outdoors" Directive 2000/14/EC Annex V.

And furthermore declares that

-The following harmonized standards have been applied:

EN292-1 and -2: 1991 Safety of machinery-Basic concept, general principles for design;

EN774: 1996 Garden equipment-Hand held, integrally powered hedge trimmers-Safety.

-The following (parts/clauses of) technical standards and specifications have been used:

CISPR12: 1997 Limits and methods of measurement of radio interference characteristics of vehicles, motorboats and spark-ignited engine-driven.

Maruyama Mfg. Co., Inc.

4-15, Uchi-kanda 3-Chome, Chiyoda-ku, Tokyo, 101-0047 Japan

January 20, 2005



Atsushi Kiuchi  
Managing Director