

SHINDAIWA BRUSHCUTTER SHIELD UPGRADE INSTRUCTIONS

Model 80563
For Brushcutters:
C35, C350, B45, B450



WARNING!

Minimize the risk of injury to yourself and others! Read the Owner's/Operator's manual originally supplied with the unit that is being upgraded and familiarize yourself with the contents. Always wear eye and hearing protection when operating your unit.

Introduction

This is not an Owner's/Operator's manual. Information on how to operate and maintain the unit can be found in the Owner's/Operator's manual for the unit you are converting.

IMPORTANT!
The information contained in these instructions describes the product available at the time of publication.

Echo, Inc. reserves the right to make changes to products without prior notice, and without obligation to make alterations to units previously manufactured.

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Attention Statements

Throughout this manual are special "attention statements".



WARNING!

A statement preceded by the triangular attention symbol and the word "WARNING" contains information that should be acted upon to prevent serious bodily injury.

CAUTION!

A statement preceded by the word "CAUTION" contains information that should be acted upon to prevent mechanical damage.

IMPORTANT!

A statement preceded by the word "IMPORTANT" is one that possesses special significance.

NOTE:

A statement preceded by the word "NOTE" contains information that is handy to know and may make your job easier.

IMPORTANT!

The instructions described in this manual are intended to help you get the most from your Shindaiwa power tool as well as to protect you and others from harm. These procedures are guidelines for safe operation under most conditions, and are not intended to replace any safety rules and/or laws that may be in force in your area. If you have questions regarding your Shindaiwa power tool, or if you do not understand something in these instructions, your Shindaiwa dealer will be glad to assist you. You may also contact Shindaiwa at the address printed on the back of this instructional manual.



Read and follow this operators manual. Failure to do so could result in serious injury.



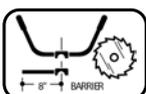
Wear eye and hearing protection at all times during the operation of this unit.



Keep bystanders at least 50 feet (15 m) away during operation.



Beware of thrown or ricocheted objects.



Do not operate this unit with a blade unless the unit is equipped with a Shindaiwa-approved handlebar or barrier.



Always wear a harness when operating this unit with a blade. A harness is also recommended when using trimmer line.



If unit is used as a brushcutter, beware of blade thrust. A jammed blade can cause the unit to jerk suddenly and may cause the operator to lose control of the unit.

General Safety Instructions

Work Safely

Trimmers and brushcutters operate at very high speeds and can do serious damage or injury if they are misused or abused. *Never allow a person without training or instruction to operate this unit!*



WARNING!

Use only authorized Shindaiwa parts and accessories with your Shindaiwa trimmer. Do not make modifications to this unit without the written approval of Echo, Inc.

Stay Alert

You must be physically and mentally fit to operate this unit safely.



WARNING!



Never operate power equipment of any kind if you are tired or if you are under the influence of alcohol, drugs, medication or any other substance that could affect your ability or judgement.



WARNING!

Minimize the Risk of Fire

- **NEVER** smoke or light fires near the engine.
 - **ALWAYS** stop the engine and allow it to cool before refueling.
 - **ALWAYS** Wipe all spilled fuel and move at least 3 meters (10 feet) from the fueling point and source before starting.
 - **NEVER** place flammable material close to the engine muffler.
 - **NEVER** operate the engine without the muffler and spark arrester screen in place and in good working condition.
- **FUEL IS HIGHLY FLAMMABLE.**
 - **ALWAYS** store gasoline in a container approved for flammable liquids.
 - **ALWAYS** inspect the unit for fuel leaks before each use. During each refill, check that no fuel leaks from around the fuel cap and/or fuel tank. If fuel leaks are evident, stop using the unit immediately. Fuel leaks must be repaired before using the unit.
 - **ALWAYS** move the unit at least 3 meters (10 feet) away from a fuel storage area or other readily flammable materials before starting the engine.

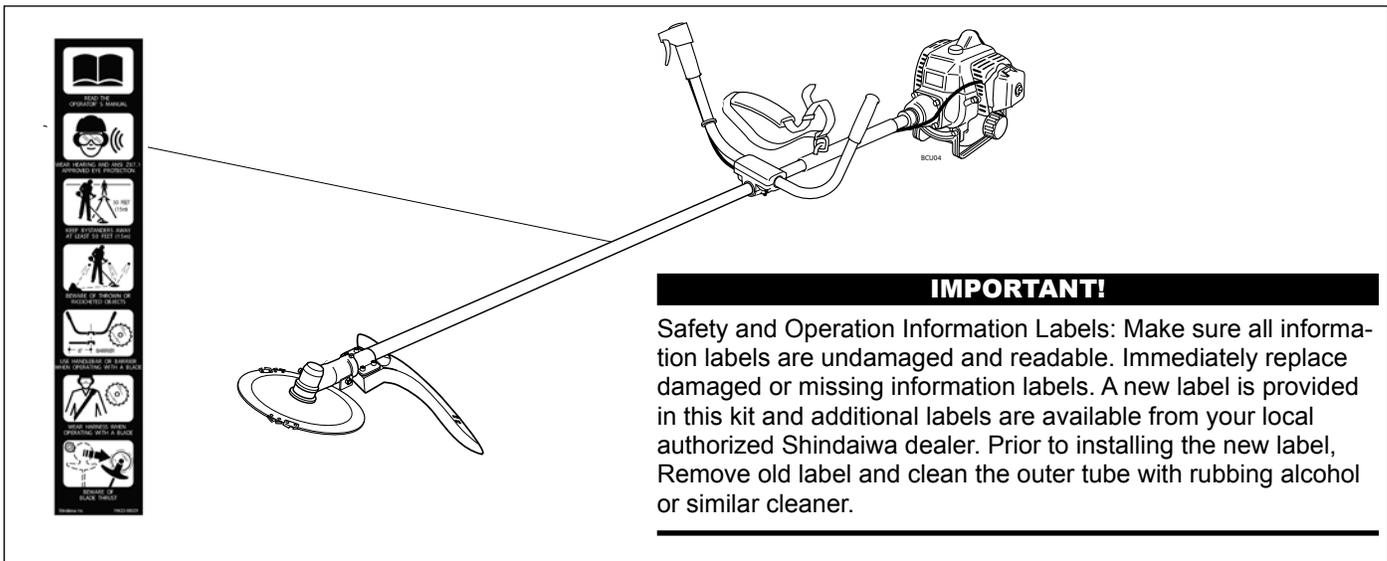


WARNING!

Use Good Judgment

- NEVER** operate the engine when transporting the unit.
- NEVER** operate the engine indoors! Make sure there is always good ventilation. Fumes from engine exhaust can cause serious injury or death.
- ALWAYS** use the proper cutting tool for the job.
- ALWAYS** stop the unit immediately if it suddenly begins to vibrate or shake. Inspect for broken, missing or improperly installed parts or attachments.
- NEVER** extend trimming line beyond the length specified for your unit.
- ALWAYS** keep the unit as clean as practical. Keep it free of loose vegetation, mud, etc.
- ALWAYS** hold the unit firmly with both hands when cutting or trimming, and maintain control at all times.
- ALWAYS** keep the handles clean.
- ALWAYS** disconnect the spark plug wire before performing any maintenance work.
- ALWAYS** if a blade should bind fast in a cut, shut off the engine immediately. Push the branch or tree to ease the bind and free the blade.

Safety Labels



The diagram shows a brushcutter with a long handle and a cutting attachment. To the left of the brushcutter is a vertical strip of seven icons representing safety and operation information. A line connects the top icon to the brushcutter's handle area. Below the brushcutter, there is a black box with the word "IMPORTANT!" in white, followed by a paragraph of text.

IMPORTANT!

Safety and Operation Information Labels: Make sure all information labels are undamaged and readable. Immediately replace damaged or missing information labels. A new label is provided in this kit and additional labels are available from your local authorized Shindaiwa dealer. Prior to installing the new label, Remove old label and clean the outer tube with rubbing alcohol or similar cleaner.

The Properly Equipped Operator

Wear hearing protection devices and a broad-brimmed hat or helmet. A helmet is required when using a blade-equipped brushcutter to clear small trees.

Prolonged exposure to excessive noise is fatiguing and could lead to impaired hearing.

Wear close-fitting clothing to protect legs and arms. Gloves offer added protection and are strongly recommended. Do not wear clothing or jewelry that could get caught in machinery or underbrush. Secure long hair so that it is above shoulder level. NEVER wear shorts!

Long-term exposure to vibration can damage your hands.

Keep a proper footing and do not overreach. Maintain your balance at all times during operation.

Wear appropriate footwear (non-skid boots or shoes): do not wear open-toed shoes or sandals. Never work barefooted!



Always wear eye protection such as goggles or safety glasses to shield against thrown objects.

Always wear a harness when operating the unit. It adds comfort and helps ensure safety by limiting movement fore and aft. When the harness is adjusted properly, the unit should balance with the cutting attachment parallel to the ground.

When operating with a blade, make sure the handle is positioned to provide you with maximum protection from contacting the blade. Always make sure the handlebar is installed in accordance with the manufacturers instructions.

Always make sure the appropriate cutting attachment shield is correctly installed and in good condition. Do not operate the unit if the cutting attachment shield is missing, loose, or broken.

Keep away from the rotating trimmer line or blade at all times, and never lift a moving attachment above waist-high.

Be Aware of the Working Environment (all units)

Avoid long-term operation in very hot or very cold weather.

Be extremely careful of slippery terrain, especially during rainy weather.

Be constantly alert for objects and debris that could be thrown either from the rotating cutting attachment or bounced from a hard surface.

Make sure bystanders or observers outside the 15 meter (50 feet) "danger zone" wear eye protection.

15 METERS (50 FEET)

Reduce the risk of bystanders being struck by flying debris. Make sure no one is within 15 meters (50 feet)— that's about 16 paces of an operating attachment. Stop immediately if a child, pet, or person comes within a 15 meter (50 feet) radius. Outside this radius, there is still a risk of injury from thrown objects.

Beware of a coasting blade when brushcutting or edging. A coasting blade can injure while it continues to spin after the throttle trigger is released or after the engine is stopped.

ALWAYS clear your work area of trash or hidden debris that could be thrown back at you or toward a bystander. When operating in rocky terrain or near electric wires or fences, use extreme caution to avoid contacting such items with the cutting attachment.

If contact is made with a hard object, stop the engine and inspect the cutting attachment for damage.



WARNING!

ALWAYS make sure the cutting attachment is properly installed and firmly tightened before operation.

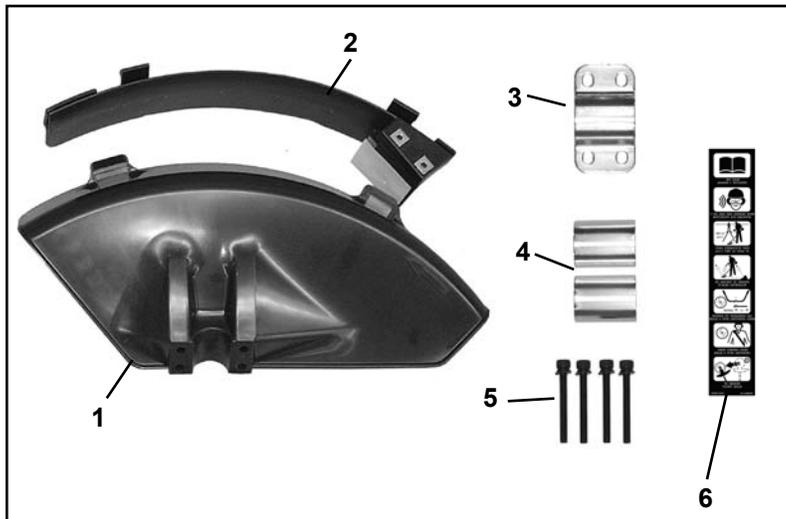
NEVER use a cracked or warped cutting attachment: If a properly installed attachment vibrates, replace the attachment with a new one and re-check.

ALWAYS stop the engine immediately and check for damage if you strike a foreign object or if the unit becomes tangled. Do not operate with broken or damaged equipment.

NEVER allow the engine to run at high RPM without a load. Doing so could damage the engine.

NEVER operate a unit with worn or damaged fasteners or attachment holders.

Kit Contents



No.	Description	QTY.
1.	Debris Shield	1
2.	Debris Shield Extension	1
3.	Upper Clamp	1
4.	Shims	2
5.	5 x 45 mm bolts	4
6.	Safety Label	1
	Assembly Tool (s)	

Assembly

Removing the Old Cutting Attachment Shield

Remove the Existing Cutting Attachment Shield.

1. Remove the four socket-head cap screws (A), clamp (B) and two shims (C) (if installed).
2. Remove the retaining nut (D), washer (E) and gearcase clamp screw (F). If possible, do not disturb the D-washer (G).

CAUTION!

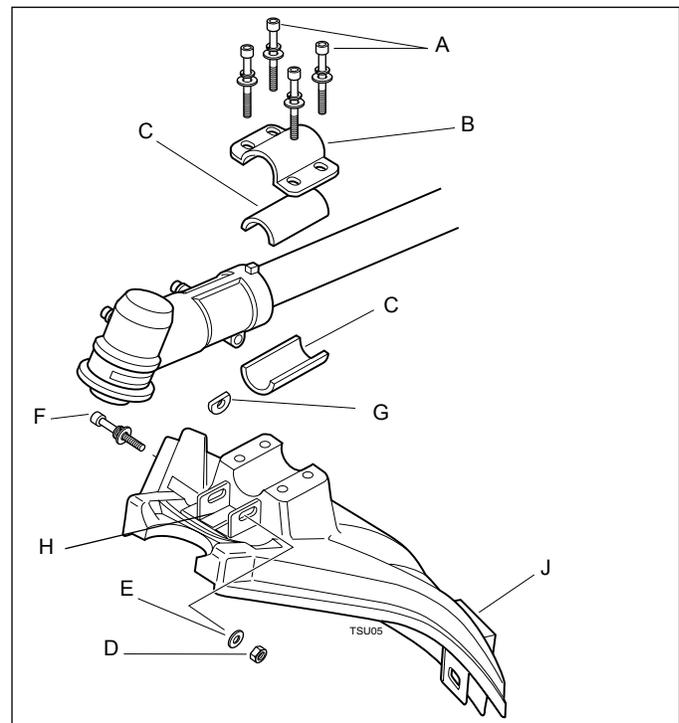
The D-Washer is a spacer that prevents overtightening and must remain in place to prevent possible damage to the gearcase clamp.

3. Remove the cutting attachment shield (J) from the gearcase.

NOTE:

Retain all hardware.

4. Remove cutting attachment shield mounting plate (H) from cutting attachment shield.



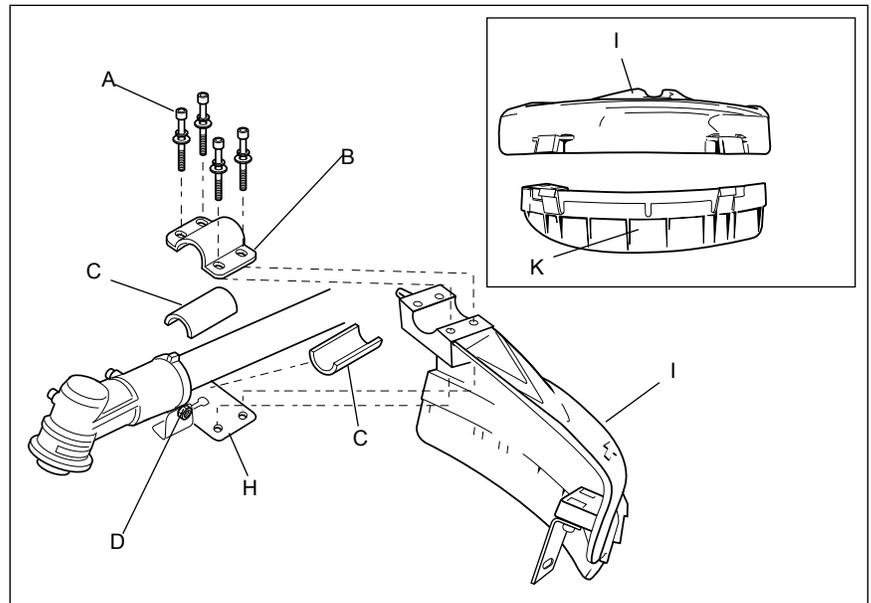
WARNING!

A cutting attachment shield or other protective device is no guarantee of protection against ricochet. YOU MUST ALWAYS GUARD AGAINST FLYING DEBRIS!

New Grass Trimmer Cutting Attachment Shield

Assemble the Cutting Attachment Shield to the Outer Tube.

1. Install the cutting attachment shield mounting plate (H) to the gearcase with the clamp screw only finger tight at this time. Take special care that the D-washer is installed in the gearcase clamp.
2. Insert the new cutting attachment shield (I) between the outer tube and the cutting attachment mounting plate.
3. **(C350 only)** Fit the two shims (C) and the bracket (B) over the outer tube and install the four socket-head cap screws (A) finger tight.
4. **(All other models)** Fit the bracket (B) over the outer tube and install the four socket-head cap screws (A) finger tight.
5. Tighten the gearcase clamp screw, then install the washer and retaining nut (D) and tighten securely.



CAUTION!

Make sure the clamp screw and retaining nut are securely tightened before tightening the four socket head screws.

6. Tighten the four socket-head cap screws to secure the cutting attachment shield.



WARNING!

NEVER operate the unit without the cutting attachment shield installed and tightly secured!

Sub-Shield.

(when trimmer head is in use)

1. Attach the sub-shield (K) extension to the cutting attachment shield (I).



WARNING!

NEVER use this machine without sub-shield when using a trimmer head.

CAUTION!

Make sure the sub-shield is completely hooked at the hook receiver.

Consumer Product Support

If you require assistance or have questions concerning the application, operation or maintenance of this product you may call the Shindaiwa Consumer Product Support Department at 1-877-986-7783 from 8:30 am to 4:30 pm (Central Standard Time) Monday through Friday. Before calling, please know the model and serial number of your unit.

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