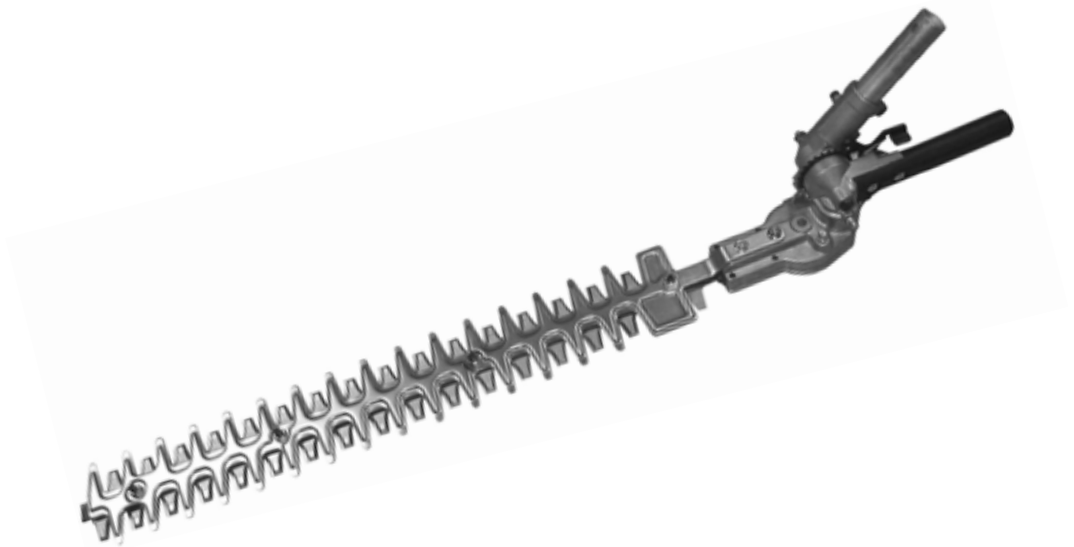


SHINDAIWA OWNER'S/OPERATOR'S MANUAL

MULTIPURPOSE ARTICULATED HEDGE TRIMMER TOOL 78703



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

The Shindaiwa Multipurpose Articulated Hedge Trimmer Tool is designed and built to deliver superior performance and reliability without compromise to quality, comfort, safety or durability.

IMPORTANT!

The information contained in these instructions describes components available at the time of publication.

While every attempt has been made to provide the latest information about your Shindaiwa product, there may be some differences between your attachment and what is described here. Echo, Inc. reserves the right to make changes to products without prior notice and without obligation to make alterations to components previously manufactured.


The operational procedures described in this manual are intended to help you get the most from your machine 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 power tool, or if you do not understand something in this manual, your Shindaiwa dealer will be glad to assist you. You may also contact Shindaiwa at the address printed on the back of this manual.

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Attention Statements

Throughout this manual are special attention statements.



DANGER!

A statement preceded by the triangular attention symbol and the word "DANGER" indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury!



WARNING!

A statement preceded by the triangular attention symbol and the word "WARNING" indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

CAUTION!

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

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.



Read and follow this manual, make sure anyone using the trimmer does likewise. Failure to do so could result in serious personal injury or machine failure. Keep this manual for future reference.



Always wear a hard hat to reduce the risk of head injuries during operation of this machine. In addition, always wear eye and hearing protection. Shindaiwa recommends wearing a face shield as additional face and eye protection.



Wear heavy duty, non-slip gloves.



Safety tip shoes or boots with non-slip sole should be worn.



This product conducts electricity. Keep the product and/or operator a minimum distance of 15 feet (4.5 meters) away from electrical sources and power lines.



Keep bystanders at least 50 feet (15 meters) away from the operating trimmer to reduce the risk of being struck by falling objects or thrown debris.



The blades / cutting attachments are SHARP! Handle with care.



Be aware of the danger of falling debris.

Safety Precautions



WARNING!

THE ARTICULATED HEDGE TRIMMER IS NOT INSULATED AGAINST ELECTRICAL SHOCK!

Approaching or contacting electrical lines with the trimmer could cause death or serious injury. Keep the trimmer at least 33 feet (10 meters) away from electrical lines or branches that contact electrical lines.



WARNING!

An articulated hedge trimmer has the potential to do serious damage if misused, abused or mishandled. To reduce the risk of injury, you must maintain control at all times, and observe all safety precautions during operation. **Never permit a person without training or instruction to operate this trimmer!**

NOTE:

For specific maintenance and safety information about the Multipurpose Tool Carrier powerhead, consult the operator's/owner's manual provided with that product. If it has been lost or misplaced, contact Shindaiwa at the telephone number provided on the back cover of this manual for a replacement.

CAUTION!

- Always maintain the Multipurpose Articulated Hedge Trimmer Tool according to this owner's manual and follow the recommended scheduled maintenance.
- Never modify or disable any of the hedge trimmer's safety devices.



WARNING!

Hedge Clipper blades are very sharp. Touching them may lead to severe personal injury. Avoid touching blades whenever possible, and always wear gloves to protect hands


Operating Precautions



WARNING!

- This Shindaiwa articulated hedge trimmer tool is specifically designed for use on the Shindaiwa Multipurpose Tool Carrier. Installation and/or use on any other model, brand or type of power tool is not approved by Shindaiwa. Attempts to use on non-approved models can damage the equipment and cause accidents, serious injury or death.
- Always make sure the cutter tool is properly installed and firmly tightened before operation.
- Never use a cracked or warped cutter or cutter bar: Replace it with a servicable one if found to be damaged.
- Before starting the engine, make sure the cutter is not contacting anything.
- Always stop the engine immediately and check for damage if you strike a foreign object or if the machine becomes tangled. Do not operate with broken or damaged equipment.
- When cutting a branch that is under tension, be alert for spring-back so that you will not be struck by the moving branch.
- Stop the machine immediately if it suddenly begins to vibrate or shake. Inspect for broken, missing or improperly installed parts or attachments.
- If a cutter should bind fast in a cut, shut off the engine immediately. Push the branch or tree to ease the bind and free the cutter.
- Make sure the cutters are correctly adjusted before operating the articulated hedge trimmer (see "Cutter Blade Adjustment" for cutter adjustment procedures). Never attempt cutter adjustments with the engine running!
- Never transport the articulated hedge trimmer or leave it unattended with the engine running. An engine that's running could be accidentally accelerated causing the blades to oscillate.
- Make sure the blade cover is in place when transporting the articulated hedge trimmer.
- Do not make unauthorized modifications to the articulated hedge trimmer or its components.
- Keep the cutters sharp and properly adjusted.
- Keep a Solid Stance. Maintain footing and balance at all times. Do not stand on slippery, uneven or unstable surfaces. Do not work in odd positions or on ladders. Do not over reach.

Safety Labels



A vertical column of seven safety labels is shown on the left. From top to bottom: a general warning symbol (exclamation mark in a triangle); a symbol for eye protection (eye with a drop); a symbol for hand protection (gloved hands); a symbol for head protection (hard hat); a symbol for a maximum height of 15 ft (4.5 M); a symbol for a maximum length of 50 in (1.25 M); and a symbol for a specific hazard (a hand being cut by a blade). To the right of these labels is a photograph of the hedge trimmer's main shaft and handle assembly. Further to the right is a photograph of the articulated cutter assembly, which consists of a long metal shaft with a series of sharp, curved blades along its length.

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.

Product Description

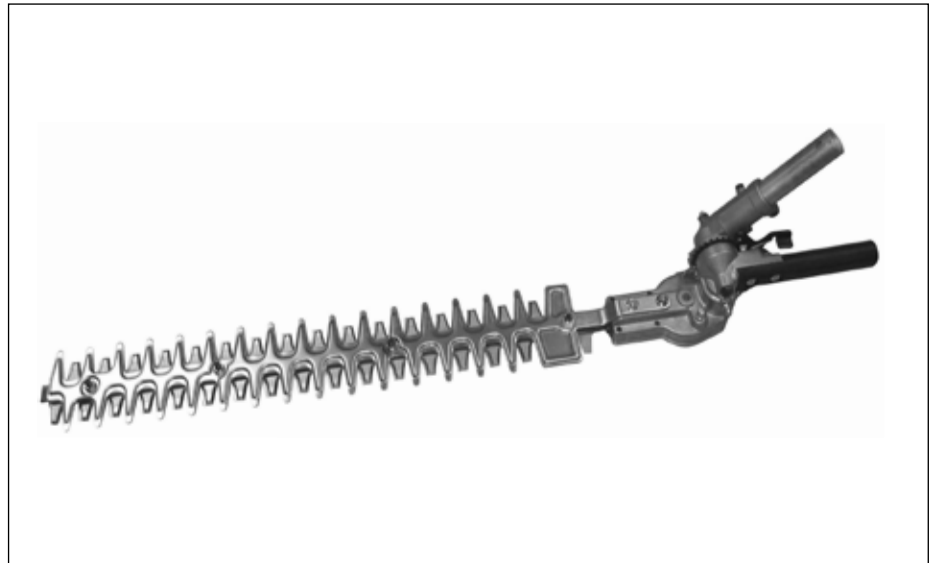
Prior To Assembly

Using Figure 2 as a guide, familiarize yourself with the Shindaiwa Multipurpose Articulated Hedge Trimmer Tool and its various components. Understanding your machine helps ensure top performance, longer service life, and safer operation.

Before assembling, make sure you have all the components required for a complete unit:

- Cutter Assembly
- Blade Cover
- Operator Manual

Carefully inspect all components, making sure they are not damaged.



IMPORTANT!

The terms “left”, “left-hand”, and “LH”; “right”, “right-hand”, and “RH”; “front” and “rear” refer to directions as viewed by the operator during normal operation.



WARNING!


Do not make unauthorized modifications or alterations to your articulated hedge trimmer or its components.

Specifications

Dry Weight (Tool only)	2.06 kg/4.5 lbs.
Length (storage or transporting position)	840 mm/33 in.
Length Installed extended in cutting position	1770 mm/70 in.
Blade Length	567 mm/22.3 in.
Cutter Drive	Spur gear
Gear Lubricant	Lithium-based grease
Standard Equipment:	Cutter tool, blade cover, owner's/operator's manual
Optional Equipment.	Shoulder strap and bracket

Specifications are subject to change without notice.

Operating the Multipurpose Articulated Hedge Trimmer Tool



WARNING!

To avoid the chance of serious injury or death, follow these safety precautions during operation:

This machine is designed for trimming hedges. Do not use this machine for other purposes.

Keep bystanders at least 50 feet (15 meters) away from the operating trimmer to reduce the risk of being cut by the moving blades or struck by falling objects or thrown debris.

Always wear a hard hat to reduce the risk of head injuries during operation of this machine.

Always wear eye and hearing protection. Shindaiwa recommends wearing a face shield as additional face and eye protection.

Always operate with both hands firmly gripping the machine.

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



ALWAYS protect yourself from hazards such as thorny brush and flying debris by wearing gloves and close fitting clothing that covers arms and legs. Never wear shorts. Don't wear loose clothing or items such as jewelry that could get caught in machinery or underbrush. Secure long hair so it is above shoulder level.

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

ALWAYS be aware of your surroundings and alert to any danger that you may not hear due to machine noise.

Assembly

Installing a Tool Attachment

1. Place the Multipurpose Tool Carrier (A) and the Tool Assembly (B) on a clean, flat surface so that both assemblies fit end to end. The powerhead assembly should be facing up, and the tool assembly should be positioned with the locking hole in the tube (C) end facing up.

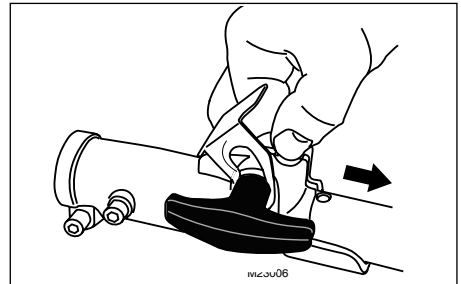
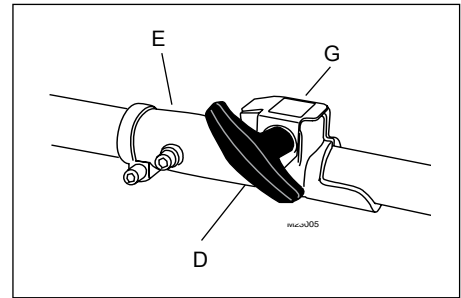
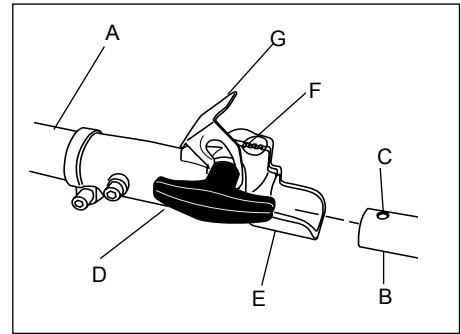
CAUTION!

Keep the open ends of the tubes clean and free of Debris!

2. Slip off the protective cover from the end of the tool, and loosen the coupler screw knob (D).
3. Insert the tool assembly into the coupler (E), with the tool decal facing up, until the line of the decal is flush with the end of the coupler. Twist the tool back and forth until you are sure it snaps in place by the coupler latch (F).
4. When the two tube halves are locked together, press down on the spring-loaded latch protector (G) and tighten the coupler screw knob.

Disassembling The Pole Sections

1. Place the Multipurpose Tool Carrier and the Tool Assembly on a clean, flat surface, loosen the coupler screw knob (D). The spring-loaded coupler protector (G) should pop up.
2. Press down on the latch (F) with your finger or thumb. This releases the coupler latch.
3. Pull the tool assembly (B) out of the coupler (E).



Blade Stiffener Removal/Install

NOTE:

For normal cutting, Shindaiwa strongly recommends the blade stiffener be installed. In extreme conditions, such as commercial cutting, or when cutting thick and/or dense branches, efficiency may be increased by trimming without the blade stiffener.

Tools required: (2) 8 mm sockets and extensions



WARNING!

Hedge Clipper blades are very sharp. Touching them may lead to severe personal injury. Avoid touching blades whenever possible, and always wear gloves to protect hands.



Assembly (continued)

Blade Stiffener Removal

1. Move stop switch to stop position.
2. Disconnect spark plug wire.



WARNING!

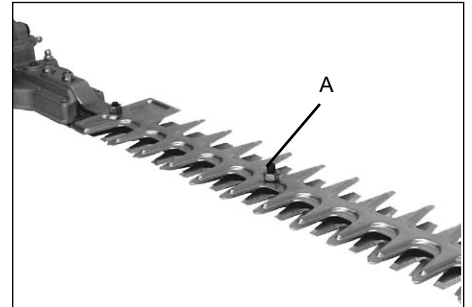
Hedge clipper blades are very sharp. Touching them may lead to severe personal injury. Use a socket and extension when removing locknuts in order to keep hands at a safe distance from sharp blades.

3. Remove four (4) blade stiffener locknuts (A).
4. Remove blade stiffener.
5. Install (4) locknuts.

NOTE:

Use new locknuts every other time blade stiffener is installed or removed.

6. Adjust blades. See "Cutter blade adjustment" section.



Install Blade Stiffener

1. Move stop switch to stop position.
2. Disconnect spark plug wire.



WARNING

Hedge clipper blades are very sharp. Touching them may lead to severe personal injury. Use a socket and extension when removing locknuts in order to keep hands at a safe distance from sharp blades.

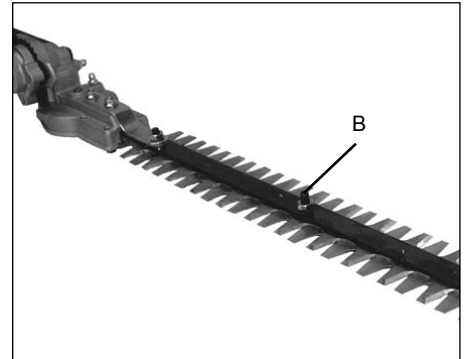
3. Remove (4) locknuts (B).
4. Install blade stiffener.
5. Secure blade stiffener with four (4) locknuts.
6. Adjust blades. See "Cutter blade adjustment" section.

IMPORTANT!

If blade stiffener is damaged or show signs of wear, replace it.

NOTE:

Use new locknuts every other time blade stiffener is installed or removed.



Assembly (continued)

Adjusting the Hedge Trimmer Cutter Assembly



WARNING!

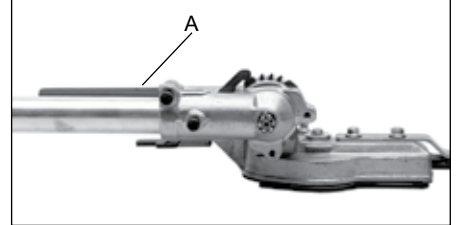
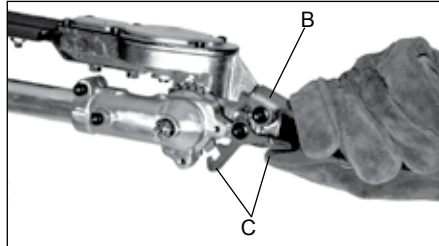
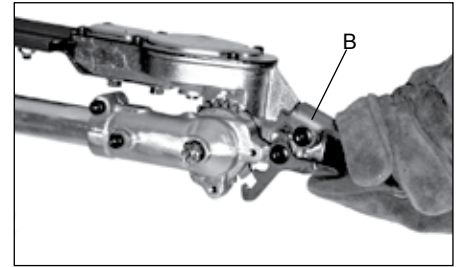
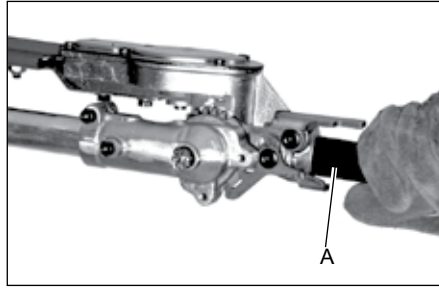
Never run the engine when adjusting the cutter assembly.



WARNING!

- The cutter blades are very sharp. Do not grasp the blades with your hands. Always use gloves when working near the cutter assembly.
- Do not allow the blades to contact your body.
- Do not touch the cutter blades when the engine is running. The blades can oscillate even if the engine is idling.

1. Position the hedge trimmer on a flat, level surface.
2. With your right hand, grasp the outer tube near the handle. With your left hand, grip the adjustment lever (A) on the cutter assembly.



IMPORTANT!

The latch lock provides an interlock to help prevent inadvertent depression of the latch release.

3. With the index finger of your left hand, press the latch lock (B). With your left thumb, press the latch release (C).
4. While holding the latch release down, pivot the cutter assembly away from you using the adjustment lever until it is at the desired cutting angle.

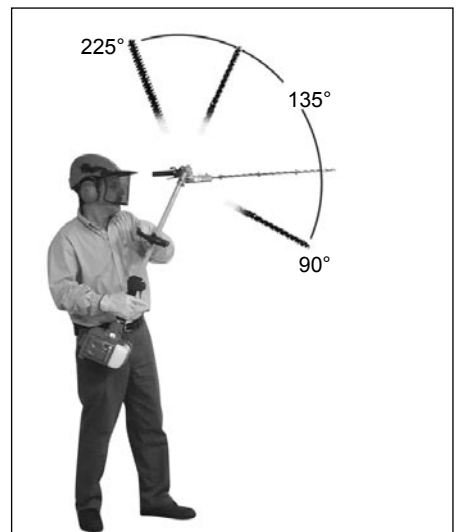
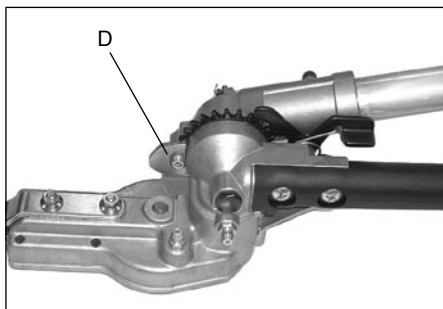
5. Release the latch lock and the latch release. Make sure the latch lock and the latch release return securely to the locked position.
6. Remove the cover from the cutter blade. The engine now may be started.

Travel limiter and adjustment range

NOTE:

This articulated hedge trimmer is equipped with a travel limiter (D) that prevents the cutter assembly from rotating outside of the 90°- 225° range.

The cutter assembly can be adjusted to 10 different positions ranging from 90° to 225° from the outer tube as shown.




WARNING!

Always make sure the latch lock is securely locked after each adjustment.

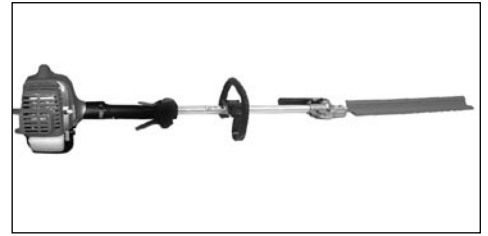
Assembly (continued)

Adjusting cutter assembly for storage or transportation

1. With the engine off, install the blade cover onto the blade.
2. Using the procedures described above, rotate the cutter assembly so it is parallel to the tube. Make sure the latch lock and the latch release return securely to a locking position.

 **WARNING!** Never run the engine when adjusting the cutter assembly.

3. Make sure the blade cover is in place on the blade before storing or transporting.



Operation

Using the Hedge Trimmer

Preparations

Use lopping shears to cut out thick branches first.

Cutting Sequence

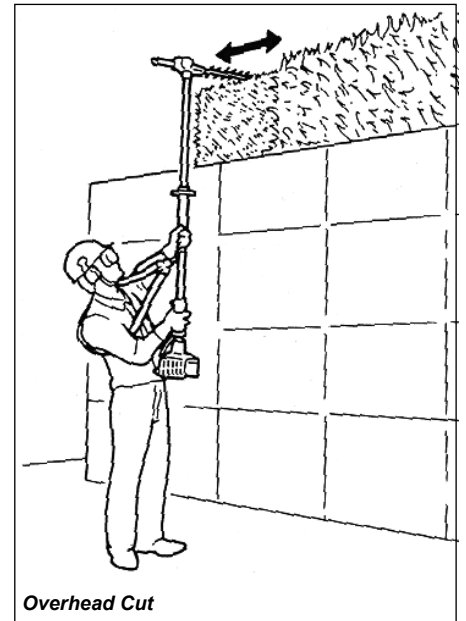
If a radial cut is necessary, cut a little at a time in several passes.

Cutting Techniques

Vertical Cut:

Swing the blade up and down in an arc as you move along the hedge. Use both sides of the cutting blade.

Cut without standing directly next to the hedge, e.g. with a flower bed between operator and hedge.



Overhead Cut:

Hold the shaft upright with a 90° blade angle to cut an upper surface of a hedge.

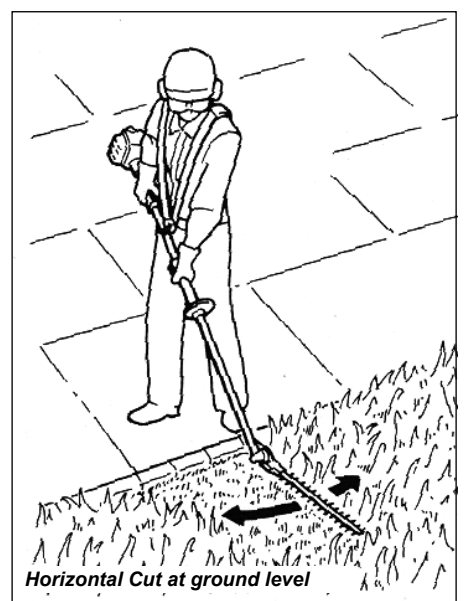
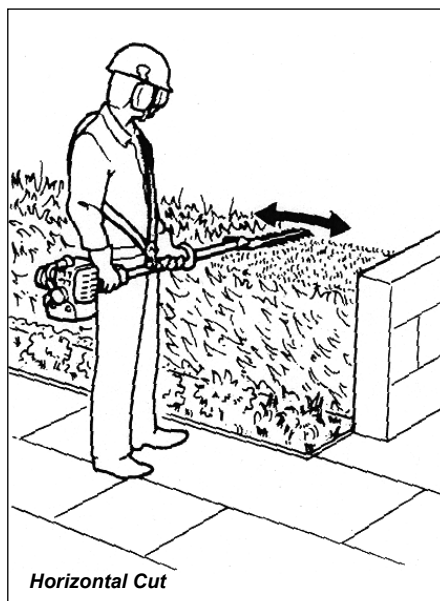
Horizontal Cut:

Hold the cutting blade at an angle of 0° to 10° as you swing the hedge trimmer horizontally.

Swing the blade in an arc towards the outside of the hedge so that the cuttings are swept on to the ground.

Cut without standing directly in front of the hedge, e.g. reach over a flower bed.

Cut close to the ground from a standing position, e.g., for low shrubs.



Maintenance

IMPORTANT!

For detailed maintenance information about your Multipurpose Tool Carrier, consult the owner's manual that was provided with it. If it has been lost or misplaced, contact Shindaiwa for a replacement.

Daily Maintenance



WARNING!

Always wear gloves when working around the cutter assembly.

Prior to each work day, perform the following:

- Clean any debris or dirt from the hedge trimmer cutter blades. Lubricate the blades before use and after refueling. Check the cutters for damage or incorrect adjustment.

10/15-Hour Maintenance

- Lubricate the cutter assembly gearbox by pumping one or two strokes of lithium-base grease into the grease fitting (A) using a lever-type grease gun.



WARNING!

Before performing any maintenance, repair, or cleaning work on the unit, make sure the engine and cutting attachment are completely stopped. Disconnect the spark plug wire before performing service or maintenance work.



WARNING!

Non-standard parts may not operate properly with your unit and may cause damage and lead to personal injury.

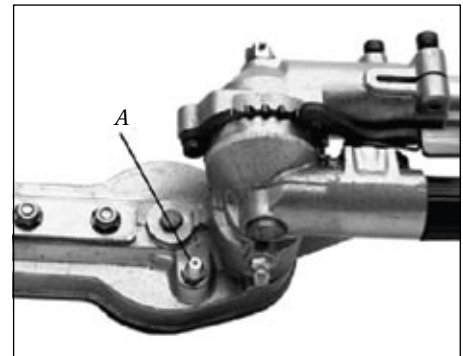
IMPORTANT

Using non-standard replacement parts could invalidate your Shindaiwa warranty.

- Check for loose or missing screws or components. Make sure the cutter attachment is free of debris and securely fastened.
- Check the entire machine for leaking fuel or grease.
- Make sure the nuts, bolts, and screws (except carburetor adjusting screws) are tight.

CAUTION!

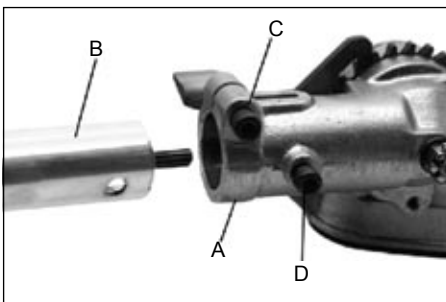
Overlubricating can cause the gearbox to operate sluggishly and can cause grease to leak out.



50-Hour Maintenance

Every 50 hours of operation (more frequently in dusty or dirty conditions):

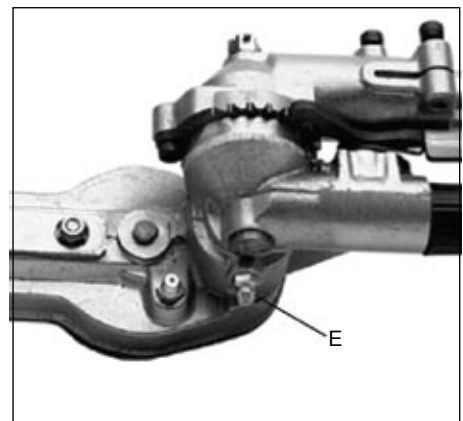
- **Lubricate the gearcase.** To perform this operation, first remove the gearcase (A) from the outer tube (B).



CAUTION!

Do not remove the D-shaped shim washer from the gearcase clamp! The shim washer prevents damage from overtightening the gearcase clamp screw.

1. Loosen the gearcase clamp screw (C).
2. Remove the index screw (D) from the gearcase.
3. Slide the gearcase out of the tube. Using a grease gun, pump lithium-base grease (about 10 grams) into the grease fitting (E) on the gearcase until you see old grease being purged from the gearcase. Purged grease will be visible in the outer tube cavity.



4. Clean up the excess grease, then reassemble the gearcase onto the outer tube. Make sure the index screw fits into the hole on the outer tube. Securely tighten both screws.

Cutter Blade Adjustment



WARNING!

The cutter blades are very sharp! Always wear gloves when working around the cutter assembly.

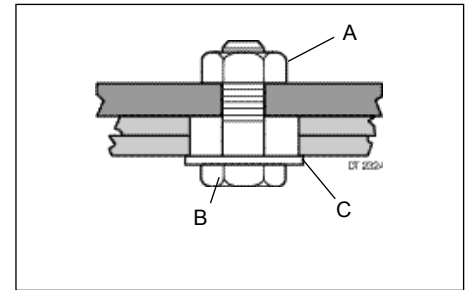
CAUTION!

Operating the trimmer with worn or improperly adjusted cutters will reduce cutter performance and may also damage your machine.

Cutter performance of your machine depends in great measure on the cutter blade clearance. Properly adjusted blades will oscillate freely yet help prevent binding of cut material between blades. Adjust the blades as follows:

1. Loosen all the blade locknuts (A) at least one full turn.
2. Tighten each blade shoulder bolt (B) firmly, and then loosen the shoulder bolts 1/4 to 1/2 turn.
3. Working from the gearcase end, lock each bolt in place by firmly tightening its locknut while preventing the shoulder bolt from turning.

When shoulder bolt adjustment is correct, there should be a gap of 0.25–0.50 mm between the cutter blades and the flat washers (C) beneath each bolt head should turn freely.



Troubleshooting Guide

ADDITIONAL PROBLEMS

Symptom	Possible Cause	Remedy
Excessive vibration.	Warped or damaged attachment.	Inspect and replace attachment as required.
	Loose gearcase.	Tighten gearcase securely.
	Bent main shaft/worn or damaged bushings.	Inspect and replace as necessary.
Cutting attachment will not move.	Shaft not installed in powerhead or gearcase.	Inspect and reinstall as required.
	Broken shaft.	Consult with an authorized Shindaiwa servicing dealer.
	Damaged gearcase.	
Cutting attachment moves at engine idle.	Engine idle too high.	Adjust idle. Check Specifications page for correct idle speed.
	Broken clutch spring or worn clutch spring boss.	Replace spring/shoes as required, check idle speed.

Servicing Information

Parts/Serial Number

Genuine Shindaiwa Parts and Assemblies for your Shindaiwa products are available only from an Authorized Shindaiwa Dealer. When you do need to buy parts **always** have the Model Number, Type and Serial Number of the unit with you. You can find these numbers on the engine. For future reference, write them in the space provided below.

Model No. _____ SN. _____

Service

Service of this product during the warranty period must be performed by an Authorized Shindaiwa Service Dealer. For the name and address of the Authorized Shindaiwa Service Dealer nearest you, ask your retailer or call: 1-877-986-7783. Dealer information is also available on WWW.SHINDAIWA.COM. When presenting your unit for Warranty service/repairs, proof of purchase is required.

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.

Warranty Registration

To ensure trouble free warranty coverage it is important that you register your Shindaiwa equipment by filling out the warranty registration card supplied with your unit. Registering your product confirms your warranty coverage and provides a direct link if we find it necessary to contact you.

Additional or Replacement Manuals

Replacement Operator and Parts Catalogs are available from your Shindaiwa dealer or at WWW.SHINDAIWA.COM or by contacting the Consumer Product Support Department (1-877-986-7783). Always check WWW.SHINDAIWA.COM for updated information.

shindaiwa®

ECHO Incorporated.
400 Oakwood Road
Lake Zurich, IL 60047-1564 U.S.A.
Telephone: 1-877-986-7783
Fax: 1-847-540-8416
www.shindaiwa.com

Yamabiko Corporation
7-2 Suehirocho 1-Chome, Ohme,
Tokyo, 198-8760, Japan
Phone: 81-428-32-6118
Fax: 81-428-32-6145