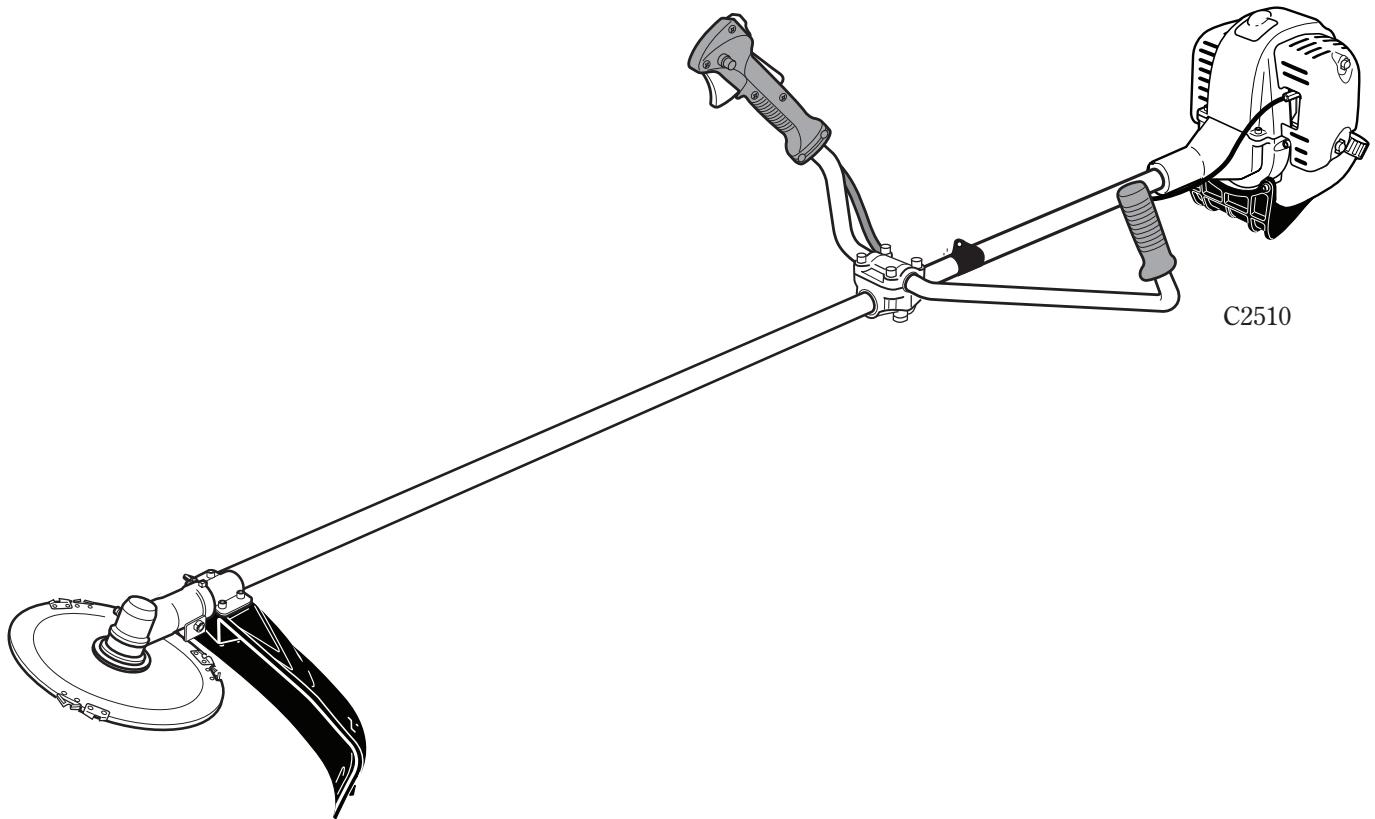


SHINDAIWA OWNER'S/OPERATOR'S MANUAL

C2510 BRUSHCUTTER



WARNING!

Minimize the risk of injury to yourself and others! Read this manual and familiarize yourself with the contents. Always wear eye and hearing protection when operating this unit.

shindaiwa
Part Number 81704 Rev 2/07

Introduction

The Shindaiwa 2510 Series hand held power equipment has been designed and built to deliver superior performance and reliability without compromise to quality, comfort, safety or durability.

Shindaiwa engines represent the leading edge of high-performance engine technology, delivering exceptionally high power with remarkably low displacement and weight. As an owner/operator, you'll soon discover for yourself why Shindaiwa is simply in a class by itself!

IMPORTANT!

The information contained in this owner's/operator's manual describes units available at the time of publication.

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



WARNING!

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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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.

Safety Instructions

Work Safely

Shindaiwa trimmers 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!

Never make unauthorized attachment installations. Do not use attachments not approved by Shindaiwa for use on this unit.

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.



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



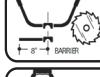
Wear eye and hearing protection at all times during the operation of this unit.



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.

IMPORTANT!

The operational procedures described in this manual are intended to help you get the most from this unit 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 2510 series hand held power equipment, or if you do not understand something in this manual, your Shindaiwa dealer will be glad to assist you. You may also contact Shindaiwa Inc. at the address printed on the back of this Manual.

Safety Instructions



WARNING!

Use Good Judgment

ALWAYS wear eye protection to shield against thrown objects.

NEVER run the engine when transporting the unit.

NEVER run the engine indoors! Make sure there is always good ventilation. Fumes from engine exhaust can cause serious injury or death.

ALWAYS clear your work area of trash or hidden debris that could be thrown back at you or toward a bystander.

ALWAYS use the proper cutting tool for the job.

ALWAYS stop the engine 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 saw 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.

The Properly Equipped Operator

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 hair so it is above shoulder level. NEVER wear shorts!

Wear hearing protection devices and a broad-brimmed hat or helmet.

Always wear eye protection such as goggles or safety glasses.

Always operate with both hands firmly gripping the unit.

Always make sure the appropriate cutting attachment shield is correctly installed and in good condition.

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

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

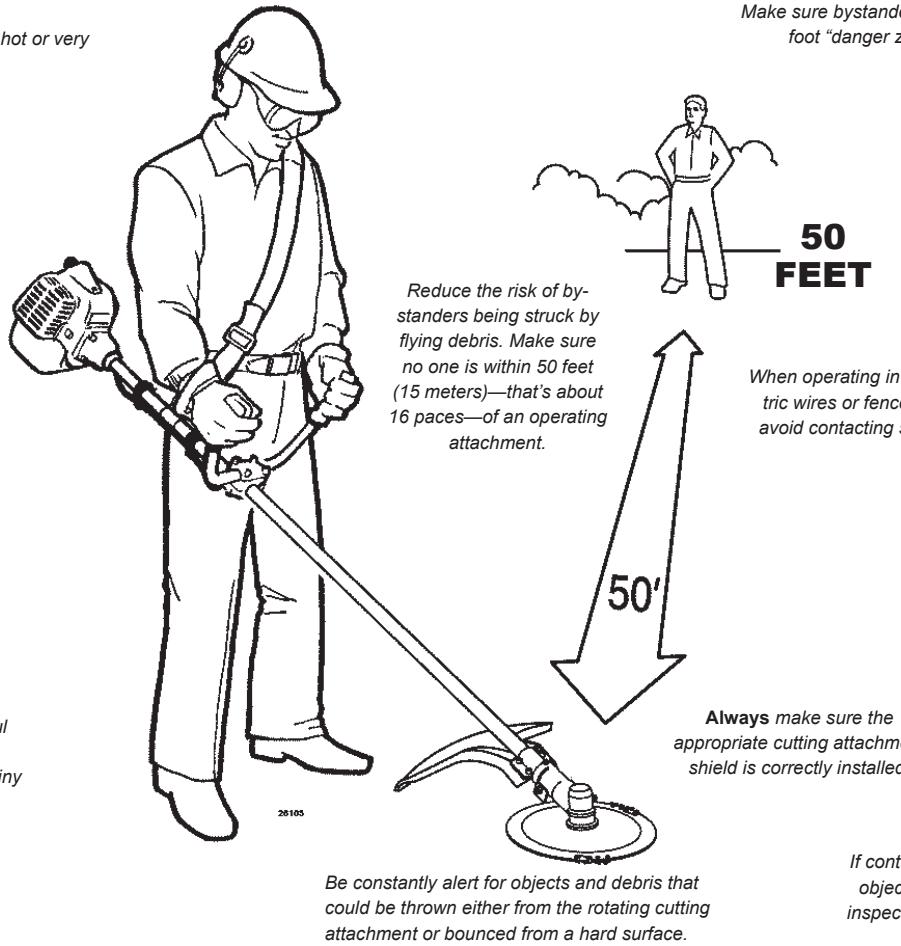
Wear appropriate footwear (non-skid boots or shoes): do not wear open-toed shoes or sandals. Never operate the unit while barefoot!

Always wear a shoulder strap or a harness when operating a unit equipped with a blade.

Figure 1

Be Aware of the Working Environment

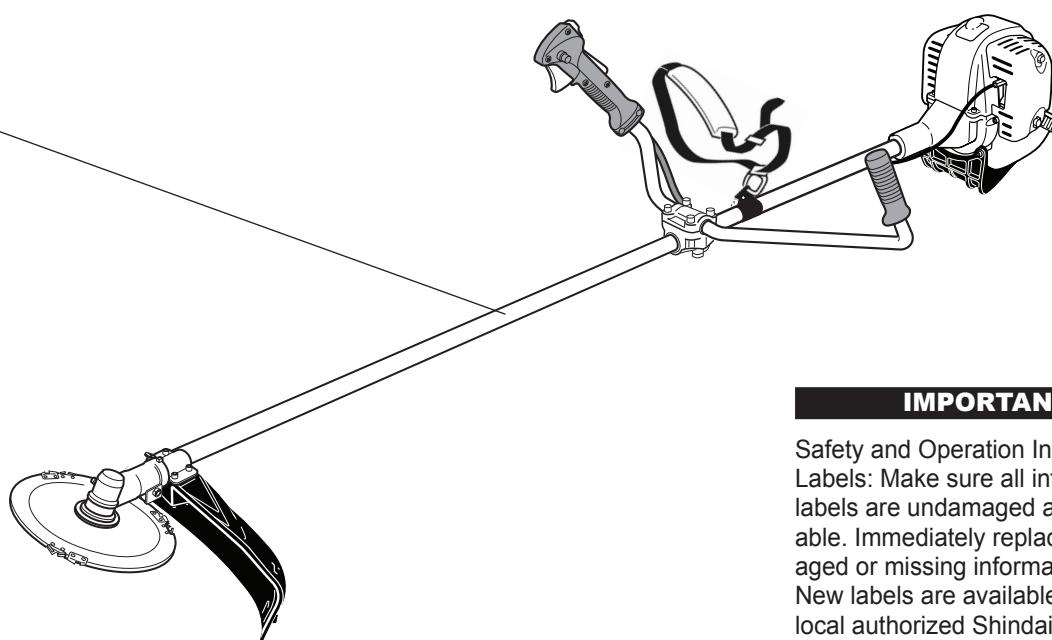
Avoid long-term operation in very hot or very cold weather.



Make sure bystanders or observers outside the 50-foot "danger zone" wear eye protection.

Figure 2

Safety Labels



IMPORTANT!

Safety and Operation Information Labels: Make sure all information labels are undamaged and readable. Immediately replace damaged or missing information labels. New labels are available from your local authorized Shindaiwa dealer.

Figure 3

Product Description

C2510 BRUSHCUTTER

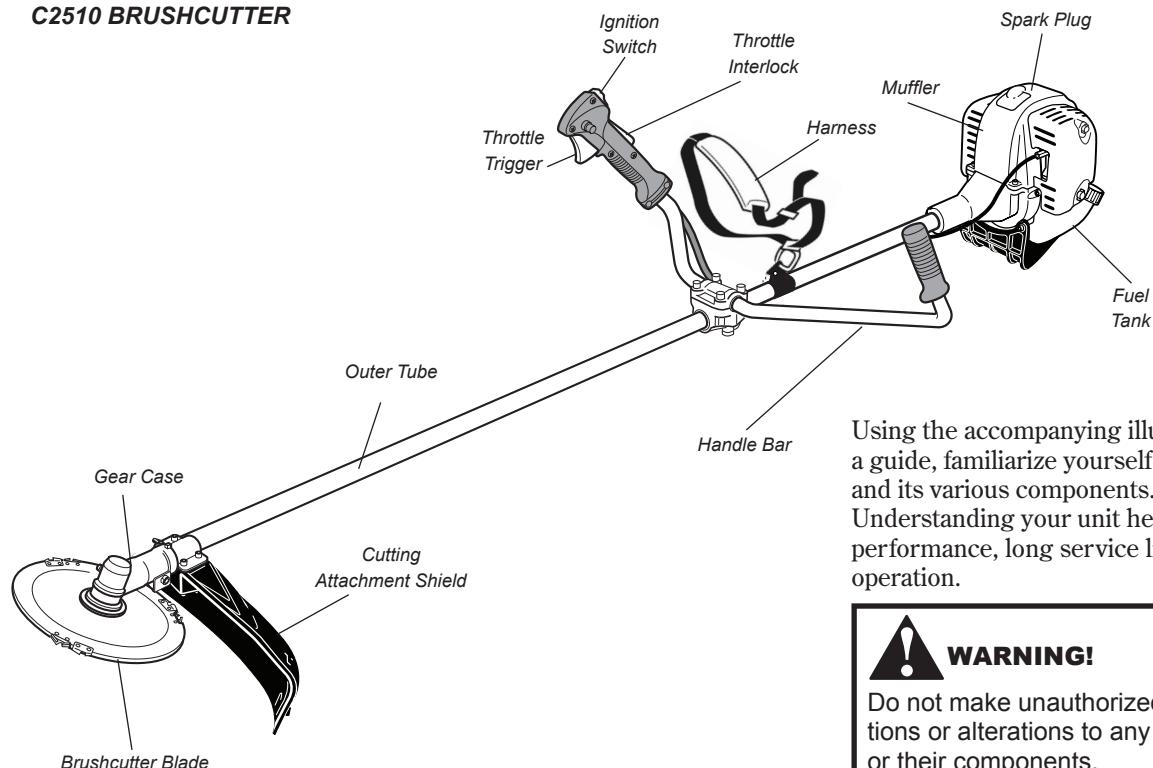


Figure 4

Using the accompanying illustrations as a guide, familiarize yourself with this unit and its various components. See Figure 4. Understanding your unit helps ensure top performance, long service life, and safer operation.

WARNING!

Do not make unauthorized modifications or alterations to any of these units or their components.

Specifications C2510

C2510X dry weight (less attachments)	11.5 lb./5.2 kg
Engine model	SF2510E
Engine type	with Power Boost Chamber
Bore x stroke	1.3 x 1.1 in./34 x 27 mm
Displacement	1.5 cu. in./24.5 cc
Maximum power	1.1 HP/0.8 kW @ 7500 rpm (min-1)
Fuel/oil ratio	50:1 with ISO-L-EGD or JASO FC class 2-cycle mixing oil*
Carburetor type	Walbro WYL, diaphragm-type
Fuel tank capacity	20.3 oz./600 ml
Ignition	One-piece electronic, program-controlled
Spark plug	NGK CMR5H

Air cleaner type	Non-reversible heavy-duty two-stage filter element
Starting method	Recoil
Stopping method	Slide switch
Transmission type	Automatic, centrifugal clutch w/bevel gear
EPA Emission Compliance Period**	Category A

shindaiwa
ONE

* meets or exceeds these specifications and is recommended for all Shindaiwa products.

** The EPA emission compliance referred to on the emission compliance label located on the engine, indicates the number of operating hours for which the engine has been shown to meet Federal emission requirements. Category C = 50 hours (Moderate), B = 125 hours (Intermediate) and A = 300 hours (Extended).

Specifications are subject to change without notice.

This unit comes fully assembled with the exception of the handlebar cutting attachment shield and cutting attachment.

Prior to Assembly

Before assembling, make sure you have all the components required for a complete unit and inspect unit and components for any damage.

- Engine/Outer tube assembly
- Handlebar and Throttle assembly
- Cutting attachment
- Kit containing cutting attachment shield mounting bracket and hardware, this owner's/operator's manual and tool kit for routine maintenance. Tool kits vary by model and may include a hex wrench set, a spark plug/screwdriver combination wrench, and a spanner.

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.

Assembly

Cutting Attachment Shield

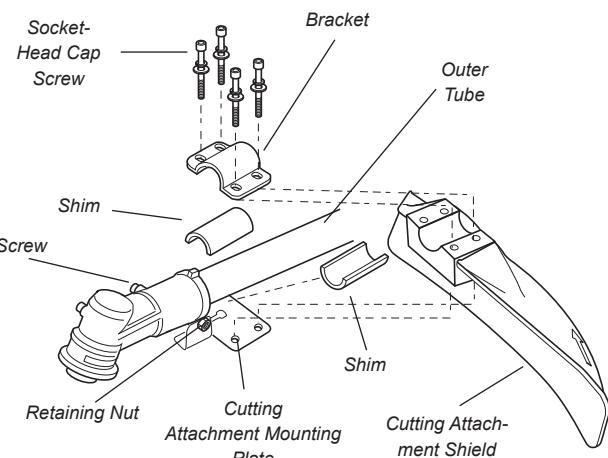


Figure 9

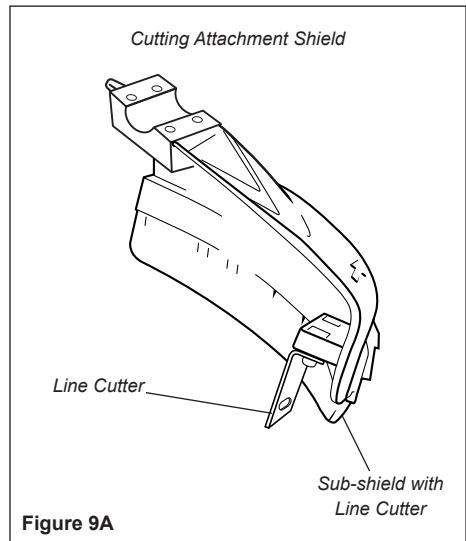


Figure 9A

Install the Cutting Attachment Shield C2510.

1. Insert the cutting attachment shield between the outer tube and the cutting attachment mounting plate. See Figure 9.

NOTE:

It may be necessary to loosen the retaining nut and clamp screw to adjust cutting attachment shield mounting plate.

2. Fit the two shims and the bracket over the outer tube and loosely install the four socket-head screws. See Figure 9.
3. Tighten the four socket-head cap screws to secure the cutting attachment shield.

CAUTION!

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

WARNING!

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

Sub-Shield C2510.

(when trimmer head is in use)

1. Attach the shield extension to the cutting attachment shield. See figure 9B.

WARNING!

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

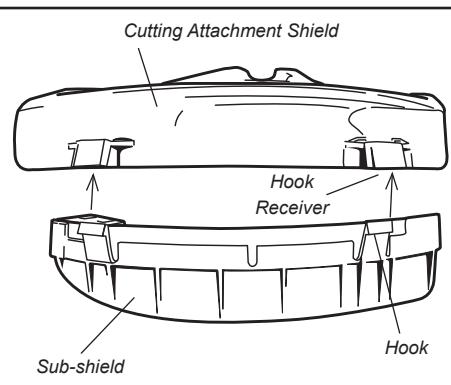


Figure 9B

CAUTION!

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

Assembly (Continued)

Handle Bar C2510

Install the handlebar:

1. Use the 4 mm hex wrench to remove the lower cap retaining screws from the handlebar bracket. Remove the cap from the bracket. See Figure 5.
2. Position the handle on the outer tube forward of Handle Positioning Label as shown in Figure 5. Reassemble the lower cap to the handlebar bracket in the reverse order of disassembly.
3. Locate the handle in the best position for operator comfort.
4. Firmly tighten both lower cap retaining screws.
5. Install the protector sleeve on the outer tube. See Figure 5.

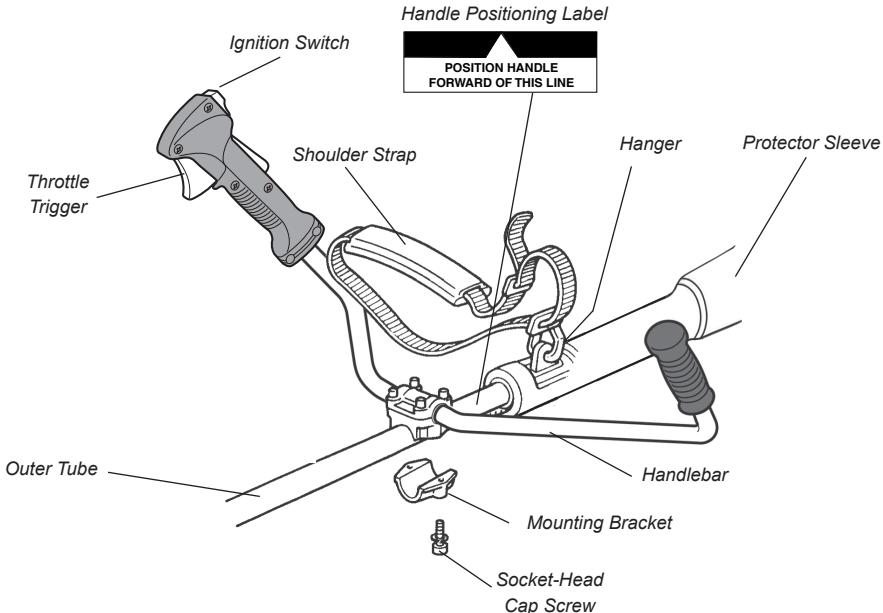


Figure 5

C2510

Adjustments

Adjust Throttle Lever Free Play

The throttle lever free play should be approximately 3/16-1/4 inch (4-6 mm). See Figure 6. Make sure that the throttle lever operates smoothly without binding. If it becomes necessary to adjust the lever free play, follow the procedures and illustrations that follow.

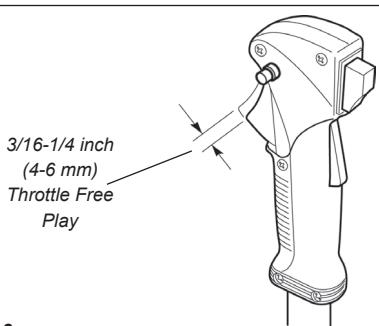


Figure 6

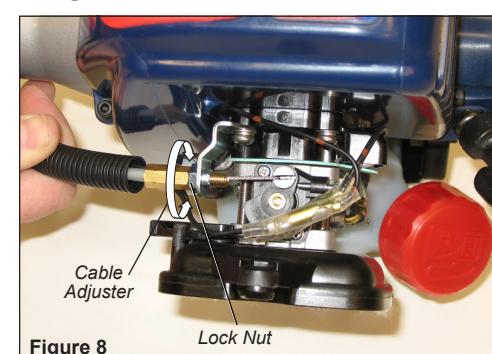


Figure 7

1. Remove the air cleaner cover by loosening the two thumbscrews. See Figure 7.
2. Loosen the lock nut on the cable adjuster. See Figure 8.

3. Turn the cable adjuster in or out as required to obtain proper free play 3/16-1/4 inch (4-6 mm). See Figure 8.

4. Tighten the lock nut.



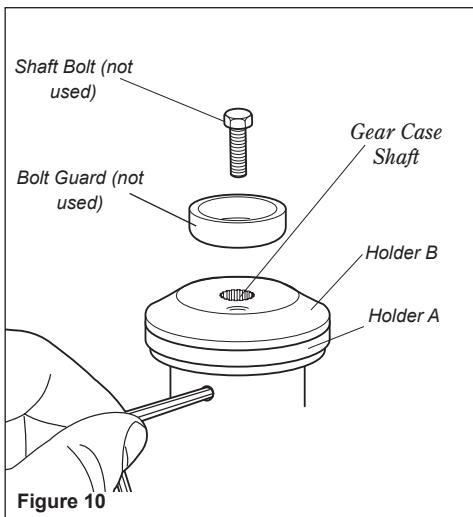
5. Reinstall the air cleaner cover.

Installing a Trimmer Head

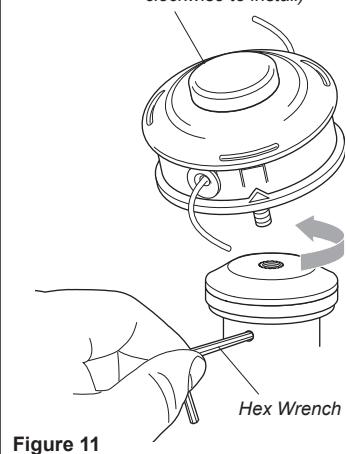
NOTE:

The C2510 is shipped with Holder A, the blade retainer (safety clip), Holder B, shaft bolt, and bolt guard installed. The shaft bolt is a LEFT-HAND thread. Remove it by turning CLOCKWISE!

- With the gear case output shaft facing up, rotate the gearshaft and holder A until the hole in holder A aligns with the matching hole in the gear case flange, and then lock the holder to the gear by inserting the long end of the hex wrench through both holes. See Figure 10.
- Using the combination spark plug/screwdriver wrench, remove the shaft bolt and bolt guard. See Figure 10.



Hand-tighten Trimmer Head (counter-clockwise to install)



NOTE:

Make sure holder B is installed on the gear-case with the splined hole engaging the gear-case shaft.

The C2510 should now be completely assembled to operate as a trimmer.

- Using the hex wrench to secure Holder A, install and hand-tighten the trimmer head (counter-clockwise to install). See Figure 11.
- Remove the hex wrench from the gear case and holder.

Installing a Blade

Turn the C2510 upside down so the gear case output shaft is facing UP and remove the shaft bolt, bolt guard and holder B from the gear case shaft.

1. Align the hole in blade holder A with the matching hole in the gear case flange and then temporarily lock the output shaft by inserting a hex wrench through both holes. See Figure 12.
2. Slide the safety clip off-center. See Figure 13.
3. Fit the blade over the safety clip and then center it over the flange on holder A. See Figure 14.

CAUTION!

Install the blade so its printed surface is visible to the operator when the brushcutter is in the normal operating position.

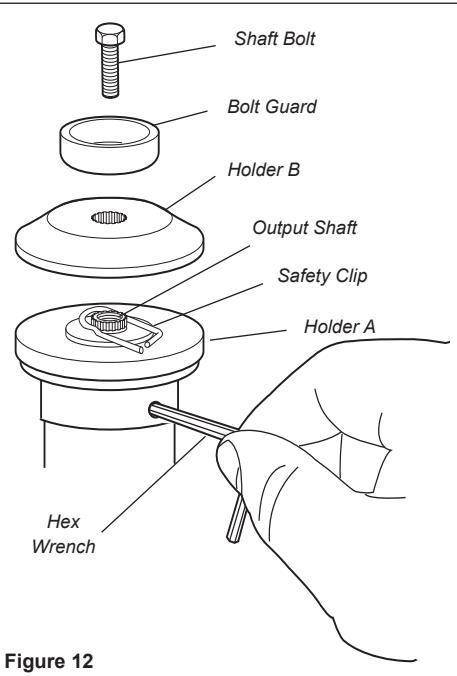


Figure 12

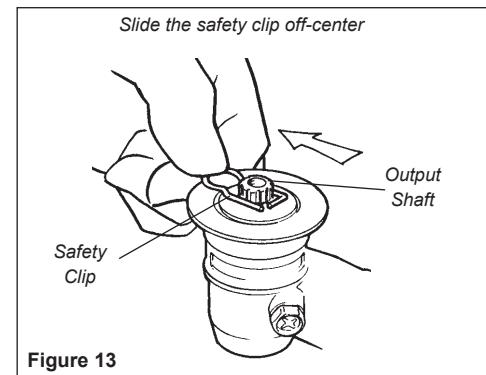


Figure 13

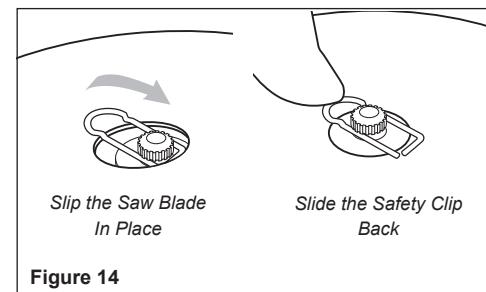


Figure 14



WARNING!

The blade must fit flat against the holder flange. The blade mounting hole must be centered over the raised boss on blade holder A.

NOTE:

When installing certain blades, it may be necessary to temporarily remove the safety clip.

4. Lock the blade in place by centering the safety clip on the output shaft. See Figure 14.



WARNING!

Never operate the C2510 without the safety clip in place!

IMPORTANT!

The machined recess in holder B must completely surround the safety clip, and both holders must be flat against the surface of the blade.

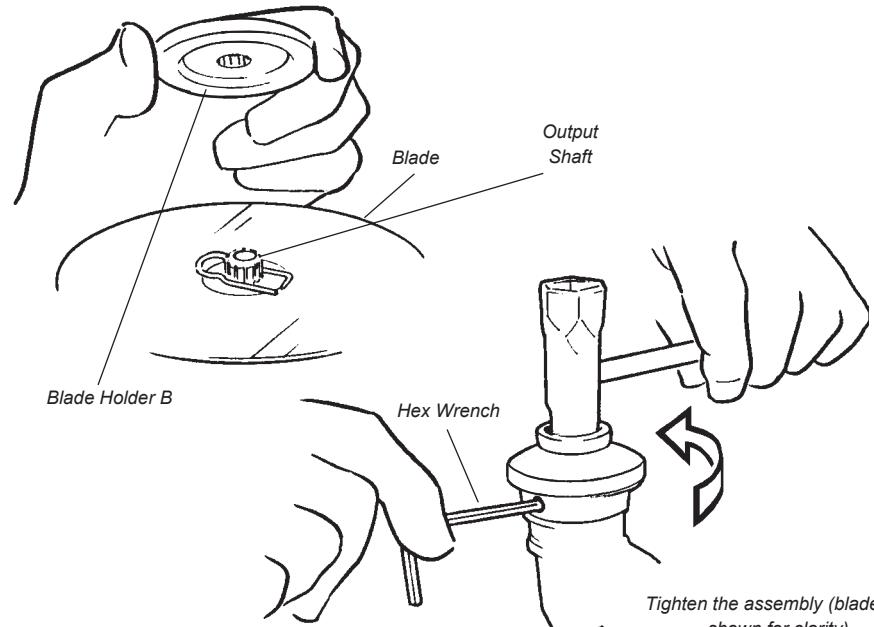


Figure 15

5. Install blade holder B on the output shaft. See Figure 15. The recess in the holder must completely cover the safety clip, and must fit tightly against the blade.
6. Install the bolt guard and then the blade retaining bolt. Using the combination spark plug wrench/screwdriver, tighten the bolt firmly in a counter-clockwise direction.
7. Remove the hex wrench.

The C2510 should now be completely assembled and ready for use with a blade.

Mixing Fuel

CAUTION!

Some types of gasoline contain alcohol as an oxygenate. Oxygenated gasoline may cause increased operating temperatures. Under certain conditions, alcohol-based gasoline may also reduce the lubricating qualities of some 2-cycle mixing oils. Never use any type of gasoline containing more than 10% alcohol by volume! Generic oils and some outboard oils may not be intended for use in high-performance C4 engines, and should never be used in your Shindaiwa engine.

CAUTION!

This engine is designed to operate on a 50:1 mixture consisting of unleaded gasoline and ISO-L-EGD or JASO FC class 2-cycle mixing oil only. Use of non-approved mixing oils can lead to excessive carbon deposits.

- Use only fresh, clean unleaded gasoline with a pump octane of 87 or higher.
- Mix all fuel with a 2-cycle air-cooled mixing oil that meets or exceeds ISO-L-EGD and/or JASO FC classified oils at 50:1 gasoline/oil ratio.

Examples of 50:1 mixing quantities

- 1 gallon of gasoline to 2.6 oz. mixing oil
- 5 liters of gasoline to 100 ml. mixing oil

IMPORTANT!

Mix only enough fuel for your immediate needs! If fuel must be stored longer than 30 days and **Shindaiwa ONE** oil with fuel stabilizer is not used, it should first be treated with a fuel stabilizer such as STA-BIL™.

Shindaiwa ONE Oil is a registered JASO FC classified oil and also meets or exceeds ISO-L-EGD performance requirements. Shindaiwa One is recommended for use in all Shindaiwa low emissions engines and also includes a fuel stabilizer.

Filling the Fuel Tank



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. Avoid overfilling and wipe off any fuel that may have spilled.
- **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.

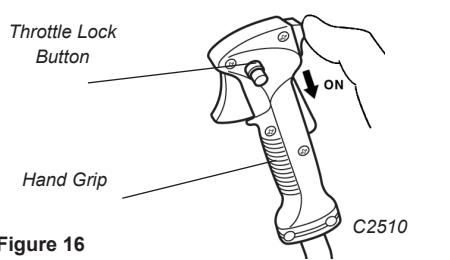
- **ALWAYS** move the unit at least 10 feet (3 meters) away from a fuel storage area or other readily flammable materials before starting the engine.
- **NEVER** place flammable material close to the engine muffler.
- **NEVER** operate the engine without the muffler and spark arrester screen in place.

1. Place the trimmer on a flat, level surface.
2. Clear any dirt or other debris from around the fuel filler cap.
3. Remove the fuel cap, and fill the tank with clean, fresh fuel.
4. Reinstall the fuel filler cap and tighten firmly.

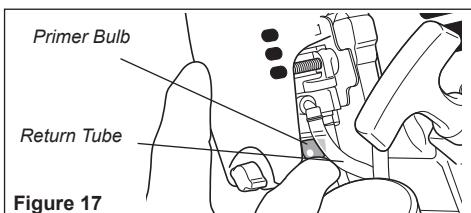
Starting the Engine

IMPORTANT!

Engine ignition is controlled by a two position switch mounted on the throttle housing labeled, "I" for ON or START and "O" for OFF or STOP.



1. Slide the ignition switch to the "ON" position. See Figure 16.
2. Set the throttle lever to the "fast idle";
 - a. Squeeze the throttle lever toward the handgrip.
 - b. Depress and hold the throttle lock button.
 - c. While depressing the throttle lock button, release the throttle lever. See Figure 16.



3. Press the primer bulb until fuel can be seen flowing in the transparent return tube.

IMPORTANT!

The primer system only pushes fuel through the carburetor. Repeatedly pressing the primer bulb will not flood the engine with fuel.

4. Set the choke lever to the CLOSED position if engine is cold.



5. While holding the outer tube firmly with left hand. Use your other hand to slowly pull the recoil starter handle until resistance is felt, then pull quickly to start the engine.

CAUTION!

Do not pull the recoil starter to the end of the rope travel. Pulling the recoil starter to the end of the rope travel can damage the starter.

Starting the Engine (continued)



WARNING!

The cutting attachment may rotate when the engine is started!

- When the engine starts, slowly move the choke lever to the "OPEN" position. See Figure 20. (If the engine stops after the initial start, close the choke and restart.)



Figure 20



WARNING!

Never start the engine from the operating position.

- Operating the throttle will automatically disengage the fast idle setting.

IMPORTANT!

If the engine fails to start after several attempts with the choke in the closed position, the engine may be flooded with fuel. If flooding is suspected, move the choke lever to the open position and repeatedly pull the recoil starter to remove excess fuel and start the engine. If the engine still fails to start, refer to the troubleshooting section of this manual.

When the Engine Starts...

- After the engine starts, allow the engine to warm up at idle 2 or 3 minutes before operating the unit.
- After the engine is warm, pick up the unit and clip on the shoulder strap. See page 12.
- Advancing the throttle makes the cutting attachment turn faster; releasing the throttle permits the attachment to stop turning. If the cutting attachment continues to rotate when the engine returns to idle, carburetor idle speed should be adjusted (see "Adjusting Engine Idle" below).

Stopping the Engine

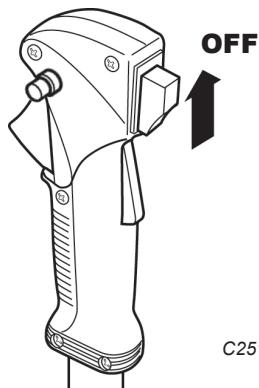


Figure 21

Idle the engine briefly before stopping (about 2 minutes), then slide the ignition switch to the "O" (Engine OFF) position.

Adjusting Engine Idle

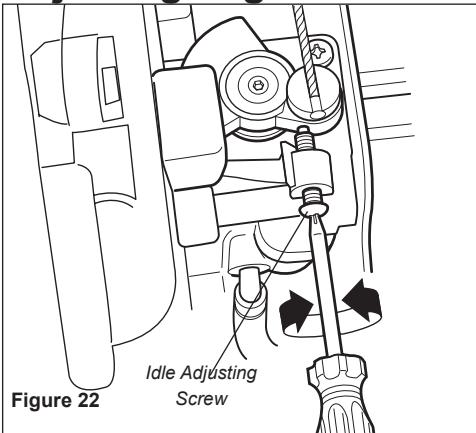


Figure 22

The engine must return to idle speed whenever the throttle lever is released. Idle speed is adjustable, and must be set low enough to permit the engine clutch to disengage the cutting attachment.

Idle Speed Adjustment



WARNING!

The cutting attachment must NEVER rotate at engine idle! If the idle speed cannot be adjusted by the procedure described here, return the trimmer to your Shindaiwa dealer for inspection.

- Place the trimmer on the ground, then start the engine, and then allow it to idle 2-3 minutes until warm.
- If the attachment rotates when the engine is at idle, reduce the idle speed by turning the idle adjustment screw counter-clockwise. See Figure 22.
- If a tachometer is available, the engine idle speed should be final adjusted to 3,000 (± 300) RPM (min^{-1}).
- Carburetor fuel mixture adjustments are preset at factory and cannot be serviced in the field.

Checking Unit Condition

NEVER operate the unit with the cutting attachment shield or other protective devices removed!



WARNING!

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

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

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

NEVER use a cracked or warped cutting attachment: replace it with a serviceable one.

ALWAYS make sure the cutting attachment fits properly into the appropriate attachment holder. If a properly installed

attachment vibrates, replace the attachment with 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.

Shoulder Strap C2510

IMPORTANT!

Adjust the shoulder strap so the shoulder pad rests comfortably on the off-side shoulder and the cutting path of the cutting attachment is parallel to the ground. Make sure all hooks and adjustment devices are secure.



WARNING!

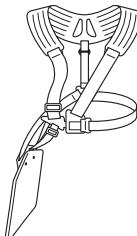
Always wear a shoulder strap or harness when operating this unit. Using a harness with a brushcutter allows you to maintain proper control of the unit and reduces fatigue during extended operation.



Figure 23

Double Shoulder Harness (optional accessory)

Adjust the double shoulder harness straps so the shoulder pads rest comfortably on the shoulders and the cutting path of the blade is parallel to the ground. Make sure all hooks and adjusting devices are secure.



Part number:
72451-17203

Cutting Grass—Units equipped with a trimmer head

Your Shindaiwa unit may be equipped with one of several Shindaiwa trimmer head models, each with features for specific applications and/or operational requirements.

NOTE:

For proper operation, always refer to the instructions accompanying the trimmer head being used. Available trimmer head styles include:

- **Semi-automatic.** Trimmer line is indexed when the operator taps the trimmer head on the ground during operation.
- **Manual.** The operator indexes line manually with the grass trimmer stopped.
- **Fixed.** The operator must stop the unit and add new lengths of trimmer line manually.
- **Flail.** This device, designed for clearing weeds and light brush, features three nylon blades attached to the head by pivots.

NOTE:

Additional hardware may be required to mount the Fixed Line or the Flail type trimmer heads.

CAUTION!

Do not push the rotating line into trees, wire fences or any material that could tangle or break line ends.

Engine Operating Speeds

Operate the unit at full throttle while cutting grass.

CAUTION!

Operation of trimmer without a cutting attachment shield and using excessive line length can lead to premature clutch failure.

CAUTION!

Operation at low RPM can lead to premature clutch failure.

Hold the trimmer so the trimmer head is angled slightly into the area to be cut. To ensure maximum trimmer-line service life, cut only with the tip of the trimmer line. Cut grass by swinging the trimmer from left to right. Keep the trimmer head horizontal. See Figure 24.

Trimming and Mowing Grass

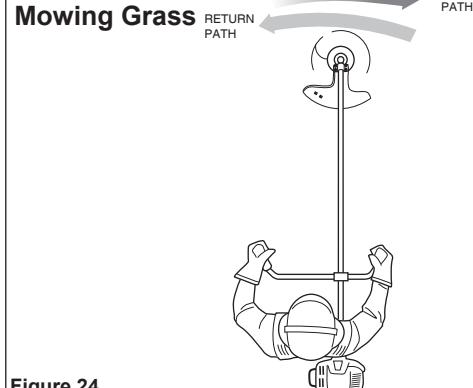


Figure 24

Edging

Tilt the handle about 100° to the left (from horizontal) and move forward, holding the trimmer vertically as shown in Figure 25.



Figure 25

Using a Blade C2510



WARNING!

- Before working with a blade-equipped unit, always inspect and clean the area of objects that could interfere with or damage the blade.
- Never use a blade near sidewalks, fence posts, buildings or other objects that could cause injury or damage.
- Never use a blade for purposes other than those for which it was designed.
- Whenever you strike a hard object with a blade, always stop the brushcutter and carefully inspect the blade for damage. NEVER OPERATE THE BRUSHCUTTER WITH A DAMAGED BLADE!
- A blade-equipped unit must be equipped with a bicycle-type handlebar or barrier bar as well as a harness or shoulder strap.
- Always make sure the cutting attachment shield is properly installed before operating this unit.

Blade Thrust

'Blade thrust' is a sudden sideways or backward motion of the brushcutter. Such motion may occur when the blade jams or catches on an object such as a sapling tree or tree stump. BE CONSTANTLY ALERT FOR BLADE THRUST AND GUARD AGAINST ITS EFFECTS!

Brushcutter Handlebar

A brushcutter handlebar or barrier bar helps prevent the operator from moving forward, or the unit moving rearward, thus preventing inadvertent bodily contact with the blade. ALWAYS KEEP THE HANDLEBAR OR BARRIER BAR SECURELY IN PLACE ON THE UNIT!

Brushcutter Shoulder Strap

A shoulder strap provides additional protection against blade thrust. In addition, a shoulder strap gives significant support and comfort to help ensure safe and efficient operation. When operating a C2510 with a blade, make sure both the handle and shoulder strap are adjusted to the size of the operator using the unit.

Engine Operating Speeds

Operate the unit at full throttle while cutting. Best fuel efficiency is obtained by releasing the throttle when swinging back after a cut.

- To prevent possible engine damage, do not allow the brushcutter to run at high speeds without a load.
- Avoid operating the engine at low speeds. Doing so can lead to rapid clutch wear. In addition, slow-speed operation tends to cause grass and debris to wrap around the cutting head.

Operating Units with a Blade

The blade rotates counter-clockwise. For best performance and to minimize being stuck by debris, move the blade from right to left while advancing on your work.

Position the blade so cuts are made between the blade's 8 o'clock and 10 o'clock positions (as viewed from above). DO NOT cut between the 10 o'clock and 5 o'clock positions.



WARNING!

When cutting wood with a saw, feed the blade slowly—never strike or "slam" a spinning blade against the wood.



WARNING!

DO NOT use 2-tooth or non-Shindaiwa approved 4-tooth cutting blades with Shindaiwa trimmers and brushcutters.

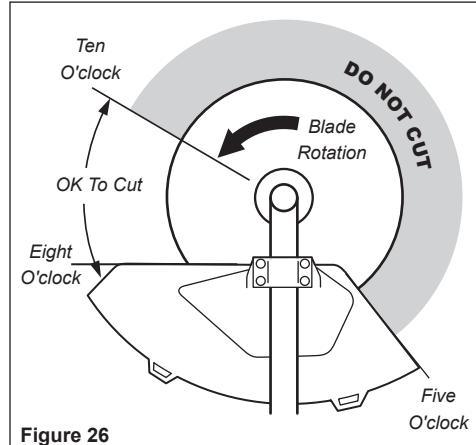


Figure 26

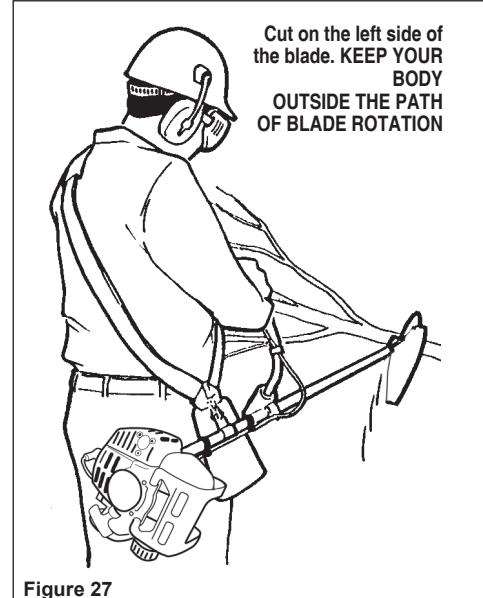


Figure 27

Vertical Cuts

Hold the brushcutter with the blade at a 90° angle to the ground so the blade's bottom edge rotates toward the operator. Move the blade from top to bottom through the cut, and cut only with the bottom edge of the blade.



WARNING!

When making vertical cuts, never allow the blade to exceed waist height.

General Maintenance

IMPORTANT!

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



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.

NOTE:

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

Muffler

This unit must never be operated with a faulty or missing spark arrester or muffler. Make sure the muffler is well secured and in good condition. A worn or damaged muffler is a fire hazard and may also cause hearing loss.

Spark Plug

Keep the spark plug and wire connections tight and clean.

Fasteners

Make sure nuts, bolts, and screws (except carburetor adjusting screws) are tight.

Blades

Keep blades sharp and check blade condition frequently. If a blade's performance changes suddenly, stop the engine and check the blade for cracks or other damage. Replace a damaged blade IMMEDIATELY!



WARNING!

■ Never repair a damaged blade by welding, straightening, or by modifying its shape. An altered blade may break during operation, resulting in serious personal injury.

■ Blades are **not** interchangeable between Shindaiwa edgers and trimmer/brushcutter models. Operating any unit with a blade or attachment not approved for that unit can be hazardous and may cause serious injury.

Daily Maintenance

Prior to each work day, perform the following:

- Remove dirt or debris from the engine, check the cooling fins and air cleaner for clogging and clean them as necessary.
- Carefully remove any accumulation of dirt or debris from the muffler or the fuel tank. Dirt build-up in these areas could cause engine overheating, induce premature wear, or create a fire hazard.
- Check for loose or missing screws or components. Make sure the cutting attachment is securely fastened.
- Check the entire unit for leaking fuel or grease.

10-Hour Maintenance

(more frequently in dusty conditions)

1. Remove the air cleaner cover by loosening the two thumbscrews. See Figure 28A.
2. Remove and inspect the pre-filter. If the pre-filter is torn or otherwise damaged, replace it with a new one. See Figure 28B.
3. Clean the pre-filter with soap and water. Let dry before reinstalling.
4. Inspect the air filter element. If the element is damaged or distorted, replace it with a new one.
5. Tap filter gently on a hard surface to dislodge debris from element or use compressed air from the inside to blow debris out and away from the air filter element.

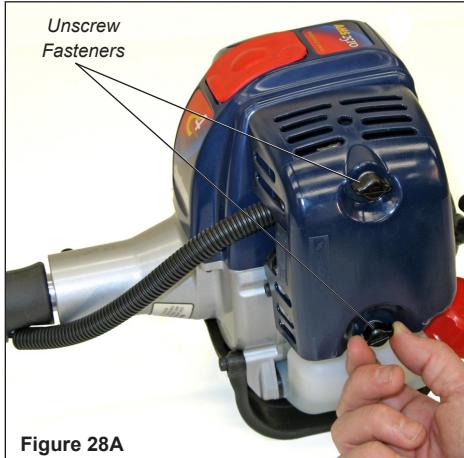


Figure 28A

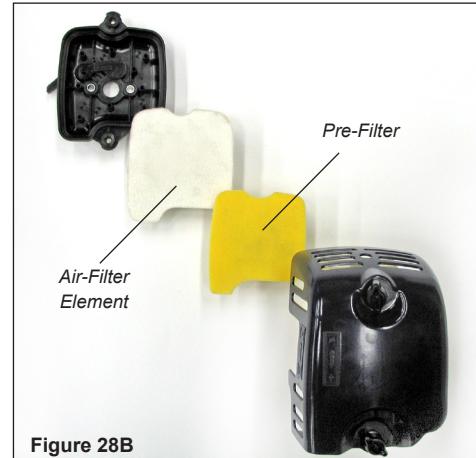


Figure 28B

IMPORTANT!
Direct the air stream at the inside face of the filter only!

6. Install the filter element, pre-filter and cover in the reverse order of removal.

CAUTION!

Never operate the unit if the air cleaner assembly is damaged or missing!

10/15-Hour Maintenance

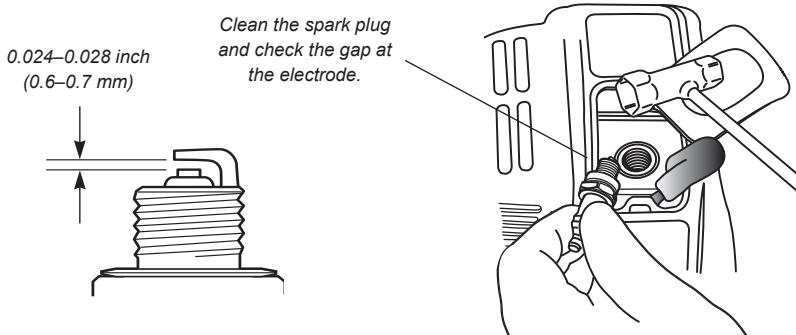


Figure 29

Every 10 to 15 hours of operation:

Remove and clean the spark plug. Adjust the spark plug electrode gap to 0.024 - 0.028 inch (0.6 - 0.7 mm). If the spark plug must be replaced, use only an NGK CMR5H or equivalent resistor type spark plug of the correct heat range. See Figure 29.

NOTE:

The NGK CMR5H also meets the requirements for electro magnetic compliance (EMC).

CAUTION!

Before removing the spark plug, clean the area around the plug to prevent dirt and debris from getting into the engine's internal parts.

50-hour Maintenance

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

- Remove and clean the cylinder cover and clean grass and dirt from the cylinder fins.
- Remove the cutting attachment, cutting attachment holder and gear shaft collar. Remove the filler plug from the side of the gear case and press new grease into the gear case until old grease is pushed out. Use only lithium-base grease such as Shindaiwa Gear Case Lubricant or equivalent. See Figure 30.
- Lubricate main shaft splines.
- Use a hooked wire to extract the fuel filter from inside the fuel tank. See Figure 31.

CAUTION!

Make sure you do not pierce the fuel line with the end of the hooked wire. The line is delicate and can be damaged easily.

Remove and replace the filter element. Before reinstalling the new filter element, inspect the condition of all the fuel system components (fuel pick-up line, fuel return line, tank vent line, tank vent, fuel cap and fuel tank). If damage, splitting or deterioration is noted, the unit should be removed from service until it can be inspected or repaired by a Shindaiwa-trained service technician.

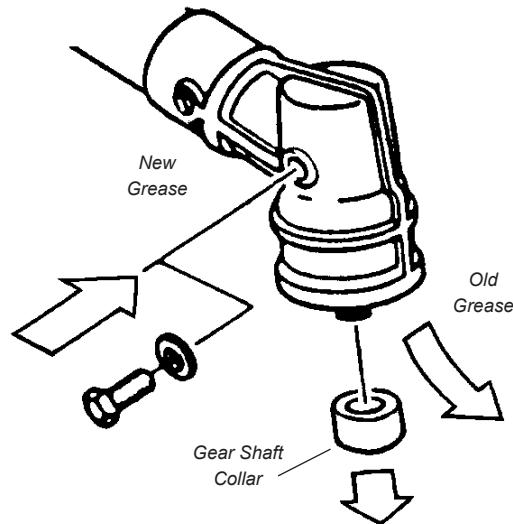


Figure 30

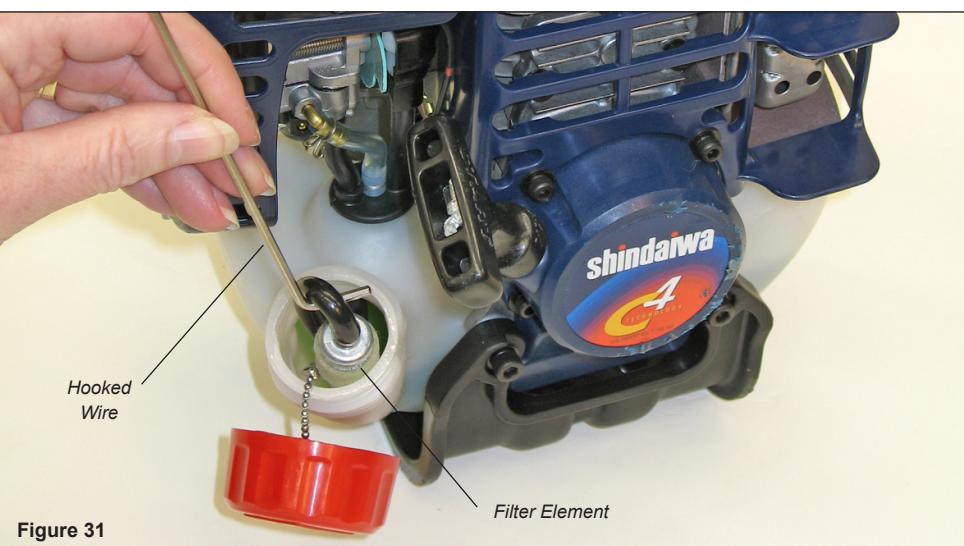


Figure 31

139/150-Hour Maintenance

Maintenance after first 139-hours, then every 150-hours thereafter.

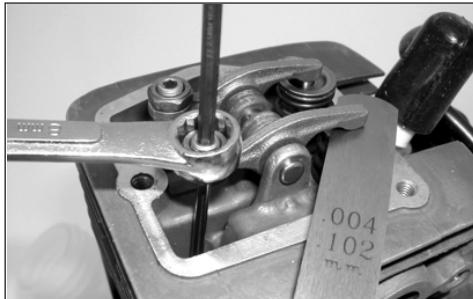
- Combustion chamber should be decarbonized, and the valve clearance should be adjusted. It is highly recommended that this is done by a Shindaiwa-trained service technician.

Valve Adjustment

- Remove cylinder cover, rocker arm cover, and set piston at TDC-compression.

CAUTION!

- Performing a valve adjustment incorrectly may cause hard starting and/or can damage the engine.
- If you are unfamiliar with this engine or uncomfortable with this procedure, consult with an authorized Shindaiwa servicing dealer.



- Loosen adjuster locknut so that the 2.5 mm Allen socket head adjustment screw can turn freely.
- Insert .004" (0.10 mm) feeler gauge for both intake and exhaust between valve stem tip and rocker arm.
- Turn adjustment screw (clockwise = tighter, counter-clockwise = looser) until feeler gauge is almost snug. Back off just enough to allow gauge to slip out with limited resistance.
- While holding adjustment screw in place with Allen driver, tighten locknut with wrench.

- Turn engine over several times, and return to TDC-compression. Recheck with proper feeler gauge to make sure clearance adjustment did not change as a result of tightening locknut. Readjust as necessary.
- Replace rocker arm cover gasket to assure proper sealing and install cover.

IMPORTANT!

If new gasket is not available and/or old gasket is not damaged, old gasket may be reused. Never use cracked or damaged gaskets!

Spark Arrestor Screen Maintenance

If the engine becomes sluggish and low on power, check and clean the spark arrester screen.



WARNING!

Never operate the unit with a damage or missing muffler or spark arrester! Operating with a missing or damaged spark arrester is a fire hazard and could also damage your hearing.

- With a 3 mm hex wrench remove the 3 engine cover screws and the engine cover. See Figure 32.
- With a 4 mm hex wrench remove the 3 muffler bolts and the muffler. See Figure 32.
- With a small flat bladed screwdriver remove the 2 screws holding the spark arrester screen and cover to the muffler. See Figure 32.
- Remove the screen and clean it with a stiff bristle brush.
- Inspect the cylinder exhaust port for any carbon buildup.

IMPORTANT!

If you note excessive carbon buildup, consult with an authorized Shindaiwa servicing dealer.

- Reassemble the spark arrester, muffler and engine cover in the reverse order of disassembly.

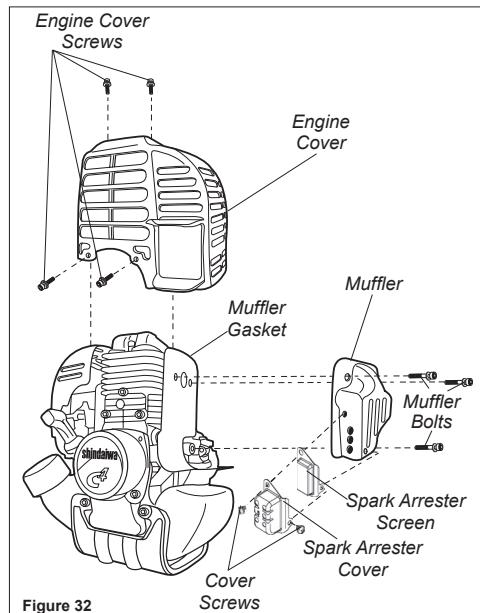


Figure 32

Long Term Storage

Whenever the unit will not be used for 30 days or longer, use the following procedures to prepare it for storage:

- Clean external parts thoroughly.
- Drain all the fuel from the fuel tank.

IMPORTANT!

All stored fuels should be stabilized with a fuel stabilizer such as STA-BIL™, if Shindaiwa ONE oil with fuel stabilizer is not used.

CAUTION!

Gasoline stored in the carburetor for extended periods can cause hard starting and could also lead to increased service and maintenance cost.

- Remove the remaining fuel from the fuel lines and carburetor.
- 1. Prime the primer bulb until no more fuel is passing through.
- 2. Start and run the engine until it stops running.
- 3. Repeat steps 1 and 2 until the engine will no longer start.

■ Remove the spark plug and pour about 1/4 ounce of 2-cycle mixing oil into the cylinder through the spark plug hole. Slowly pull the recoil starter 2 or 3 times so oil will evenly coat the interior of the engine. Reinstall the spark plug.

- Before storing the unit, repair or replace any worn or damaged parts.
- Remove the air cleaner element from the carburetor and clean it thoroughly with soap and water. Let dry and reassemble the element.
- Store the unit in a clean, dust-free area.

Blade Sharpening

When the cutting edges of the blade become dull, they can be resharpened with a few strokes of a file. In order to keep the blade in balance, all cutting edges must be sharpened equally.

Shindaiwa Tornado™ Blade

To sharpen the cutters on a Shindaiwa Tornado Blade, use a 7/32-inch round file. File the leading edge of each tooth to a razor edge. The top plate of each tooth should angle back 30°.

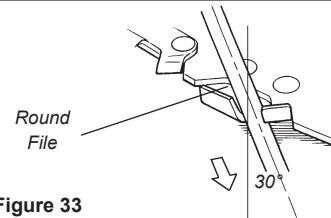


Figure 33



WARNING!

Sharpen only the cutting teeth of a blade. DO NOT alter the contour of the blade in any way.

Multiple-tooth Circular Blade

Use a round file to maintain a radius of 0.04 to 0.06" (1 to 1.5 mm) at the base of each tooth. Cutting edges must be offset equally on each side.

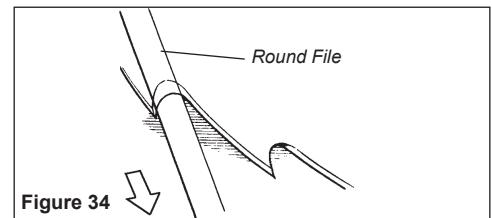


Figure 34

Troubleshooting Guide

ENGINE DOES NOT START

What To Check	Possible Cause	Remedy
Does the engine crank? NO	Faulty recoil starter. Fluid in the crankcase. Internal damage.	Consult with an authorized servicing dealer.
YES Good compression? NO	Loose spark plug. Excess wear on cylinder, piston, rings. Valves not seating.	Tighten and re-test. Consult with an authorized servicing dealer.
YES Does the tank contain fresh fuel of the proper grade? NO	Fuel incorrect, stale or contaminated; mixture incorrect.	Refill with fresh, clean unleaded gasoline with a pump octane of 87 or higher mixed with a 2-cycle air cooled mixing oil that meets or exceeds ISO-L-EGD and/or JASO FC classified oils at 50:1 gasoline/oil ratio.
YES Is fuel visible and moving in the return line when priming? NO	Check for clogged fuel filter and/or vent. Priming pump not functioning properly.	Replace fuel filter or vent as required; restart. Consult with an authorized servicing dealer.
YES Is there spark at the spark plug wire terminal? NO	The ignition switch is in "O" (OFF) position. Shorted ignition ground. Faulty ignition unit.	Move switch to "T" (ON) position and restart. Consult with an authorized servicing dealer.
YES Check the spark plug.	If the plug is wet, excess fuel may be in the cylinder. The plug is fouled or improperly gapped. The plug is damaged internally or of the wrong size.	Crank the engine with the plug removed, reinstall the plug and restart. Clean and regap the plug to 0.024 - 0.028 inch (0.6 - 0.7 mm). Restart. Replace the plug with an NGK CMR5H or equivalent resistor type spark plug of the correct heat range. Set spark plug electrode gap to 0.024 - 0.028 inch (0.6 - 0.7 mm).

LOW POWER OUTPUT

What To Check	Possible Cause	Remedy
Is the engine overheating?	Operator is overworking the unit. Carburetor mixture is too lean. Improper fuel ratio. Fan, fan cover, cylinder fins dirty or damaged. Carbon deposits on the piston or in the muffler.	Shorten trimmer line. Cut at a slower rate. Consult with an authorized servicing dealer. Refill with fresh, clean unleaded gasoline with a pump octane of 87 or higher mixed with a 2-cycle air cooled mixing oil that meets or exceeds ISO-L-EGD and/or JASO FC classified oils at 50:1 gasoline/oil ratio. Clean, repair or replace as necessary. Consult with an authorized servicing dealer.
Engine is rough at all speeds. May also have black smoke and/or unburned fuel at the exhaust.	Clogged air cleaner element. Loose or damaged spark plug. Air leakage or clogged fuel line. Water in the fuel. Piston seizure Faulty carburetor and/or diaphragm. Valve clearance set incorrectly.	Service the air cleaner element. Tighten or replace. Repair or replace filter and/or fuel line. Replace the fuel. See page 10. Consult with an authorized servicing dealer. Adjust valves. See page 16.
Engine is knocking.	Oveheating condition. Improper fuel. Carbon deposits in the combustion chamber. Valve clearance set incorrectly.	Consult with an authorized servicing dealer. Check fuel octane rating; check for presence of alcohol in the fuel (page 10). Refuel as necessary. Consult with an authorized servicing dealer. Adjust valves. See page 16.

Troubleshooting Guide (continued)

ADDITIONAL PROBLEMS

Symptom	Possible Cause	Remedy
Poor acceleration.	Clogged air filter. Clogged fuel filter. Lean fuel/air mixture. Idle speed set too low.	Clean the air filter. Replace the fuel filter. Consult with an authorized servicing dealer. Adjust: 3,000 (± 300) RPM (min $^{-1}$)
Engine stops abruptly.	Switch turned off. Fuel tank empty. Clogged fuel filter. Water in fuel. Shorted spark plug or loose terminal. Ignition failure. Piston seizure.	Reset the switch and restart. Refuel. See page 10. Replace fuel filter. Drain; replace with clean fuel. See page 10. Clean and replace spark plug, tighten the terminal. Replace the ignition unit. Consult with an authorized servicing dealer.
Engine difficult to shut off.	Ground (stop) wire is disconnected or switch is defective. Overheating due to incorrect spark plug. Overheated engine.	Test and replace as required. Idle engine until cool. Clean and regap the plug to 0.024 - 0.028 inch (0.6 - 0.7 mm). Correct plug: NGK CMR5H or equivalent resistor type spark plug of the correct range. Idle engine until cool.
Top of engine is getting dirty and oily.	Valve cover is leaking.	Replace valve cover gasket.
Cutting attachment rotates at idle.	Engine idle too high. Broken clutch spring or worn clutch spring boss. Loose attachment holder.	Set Idle: 3,000 (± 300) RPM (min $^{-1}$) Replace spring/shoes as required, check idle speed. Inspect and re-tighten holders securely.
Engine will not idle down.	Engine idle set too high. Engine has an air leak.	Set Idle: 3,000 (± 300) RPM (min $^{-1}$) Consult with an authorized servicing dealer.

ADDITIONAL PROBLEMS

Symptom	Possible Cause	Remedy
Excessive vibration.	Warped or damaged cutting attachment. Loose gearcase. Bent main shaft/worn or damaged bushings. Trimmer line not wound properly on spool.	Inspect and replace attachment as required. Tighten gearcase securely. Inspect and replace as necessary. Rewind trimmer line.
Cutting attachment will not rotate.	Shaft not installed in powerhead or gearcase. Broken shaft. Damaged gearcase.	Inspect and reinstall as required. Consult with an authorized servicing dealer.

Shindaiwa Corporation
Federal Emission Design And Defect Limited Warranty
Utility And Lawn And Garden Engines

Shindaiwa Corporation warrants to the initial purchaser and each subsequent owner, that this utility equipment engine (herein engine) is designed, built and equipped to conform at the time of initial sale, to all applicable regulations of the U.S. Environmental Protection Agency (EPA), and that the engine is free of defects in materials and workmanship that would cause this engine to fail to conform with EPA regulations during its warranty period. This emission warranty is applicable in all States, except the State of California.

For parts listed under PARTS COVERED, the dealer authorized by Shindaiwa Corporation will, at no cost to you, make the necessary diagnosis, repair, or replacement of any defective emission-related component to ensure that the engine complies with applicable U.S. EPA regulations.

MANUFACTURERS WARRANTY COVERAGE

When sold within the U.S., this engine's emission control system is warranted for a period of two (2) years from the date this product is first delivered to the original retail purchaser.

OWNER'S WARRANTY RESPONSIBILITIES

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

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

You are responsible for presenting your engine to the nearest dealer authorized by Shindaiwa Corporation when a problem exists.

If your Shindaiwa Dealer is unable to answer questions regarding your warranty rights and responsibilities, you should then contact your Shindaiwa Distributor.

For the name and telephone number of the Shindaiwa Distributor in your area, please call Shindaiwa Inc. at (503) 692-3070 between the hours of 8:00 AM and 5:00 PM Pacific Standard Time.

PARTS COVERED

Listed below are the parts covered by the Federal Emission Design and Defect Warranty. Some parts listed below may require scheduled maintenance and are warranted up to the first scheduled replacement of that part. The warranted parts include:

1. Carburetor Internal Components
 - Valve Assembly-throttle, Jet, Metering Diaphragm
2. Ignition System Components
 - Ignition Coil
 - Flywheel Rotor

The emission control system for your particular Shindaiwa engine may also include certain related hoses and connectors.

LIMITATIONS

The Federal Emission Design and Defect Warranty shall not cover any of the following:

- (a) conditions resulting from tampering, misuse, improper adjustment (unless they were made by the dealer or service center authorized by Shindaiwa

Corporation during a warranty repair), alteration, accident, failure to use the recommended fuel and oil, or not performing required maintenance services,

- (b) the replacement parts used for required maintenance services,
- (c) consequential parts used for required maintenance services,
- (d) diagnosis and inspection fees that do not result in eligible warranty service being performed, and
- (e) any non-authorized replacement part, or malfunction of authorized parts due to use of non-authorized parts.

MAINTENANCE AND REPAIR REQUIREMENTS

You are responsible for the proper use and maintenance of the engine. You should keep all receipts and maintenance records covering the performance of regular maintenance in the event questions arise. These receipts and maintenance records should be transferred to each subsequent owner of the engine. Shindaiwa Corporation reserves the right to deny warranty coverage if the owner has not properly maintained the engine. Shindaiwa Corporation will not deny warranty repairs, however, solely because of the lack of repair, maintenance or failure to keep maintenance records.

Maintenance, Replacement or Repair of Emission Control Devices and Systems may be performed by any repair establishment or individual; however, warranty repairs must be performed by a dealer or service center authorized by SHINDAIWA CORPORATION. The use of parts that are not equivalent in performance and durability to authorized parts may impair the effectiveness of the emission control system and may have a bearing on the outcome of a warranty claim.

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

OBTAINING WARRANTY SERVICE

All repairs qualifying under this limited warranty must be performed by a dealer authorized by Shindaiwa Corporation.

If any emission-related part is found defective during the warranty period, it is your responsibility to present the product to an authorized Shindaiwa dealer. Bring your sales receipts showing the date of purchase for this engine. The dealer authorized by Shindaiwa Corporation will perform the necessary repairs or adjustments within a reasonable amount of time and furnish you with a copy of the repair order. All parts and accessories replaced under this warranty become the property of Shindaiwa Corporation.

To locate an authorized Shindaiwa dealer near you, contact your Shindaiwa Distributor. For the name and telephone number of the Shindaiwa Distributor in your area, please call Shindaiwa Inc. at (503) 692-3070 between the hours of 8:00 AM and 5:00 PM Pacific Standard Time.

THIS WARRANTY IS ADMINISTERED BY

Shindaiwa Inc.
11975 S.W. Herman Rd.
Tualatin, Oregon 97062
(503) 692-3070

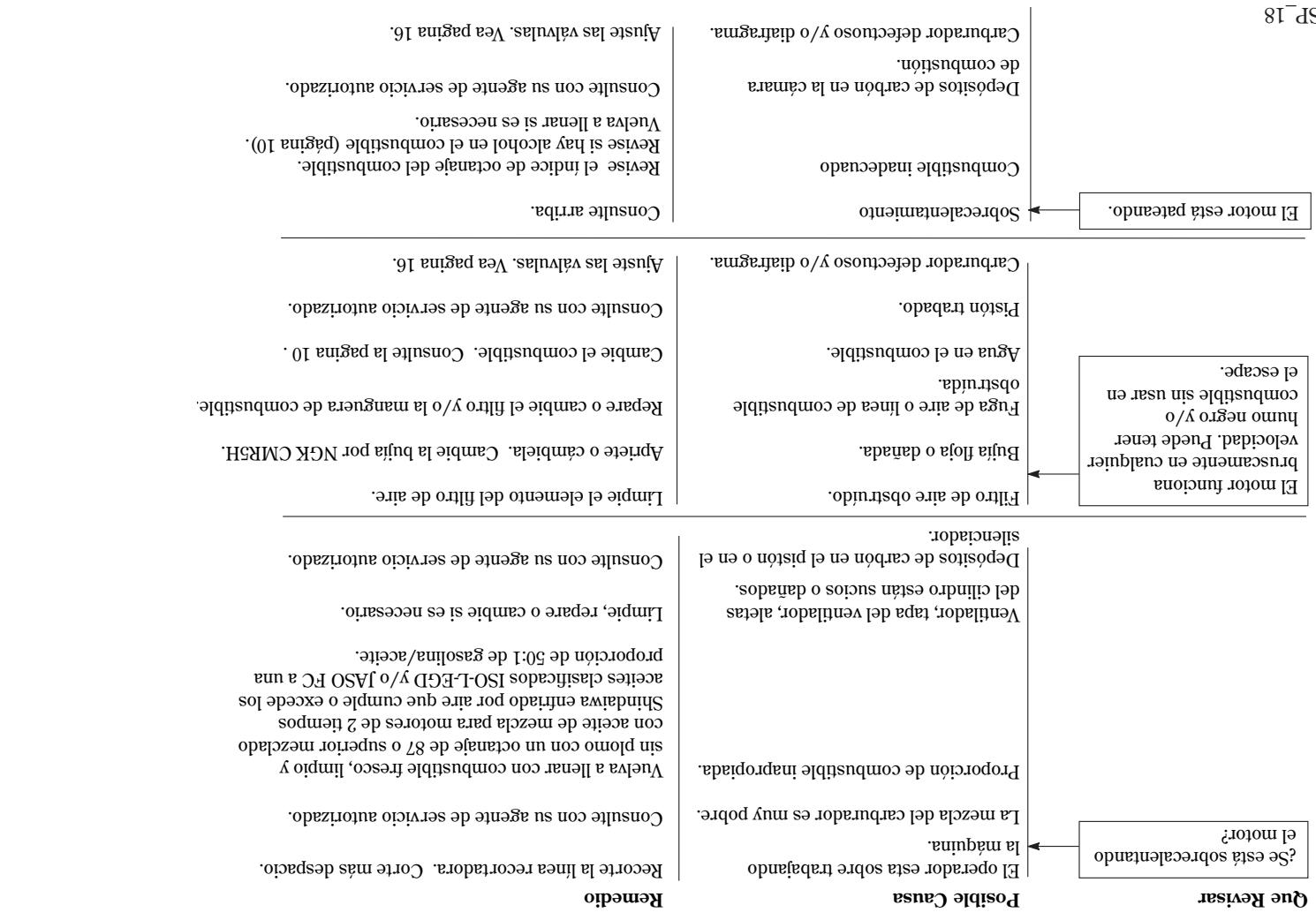
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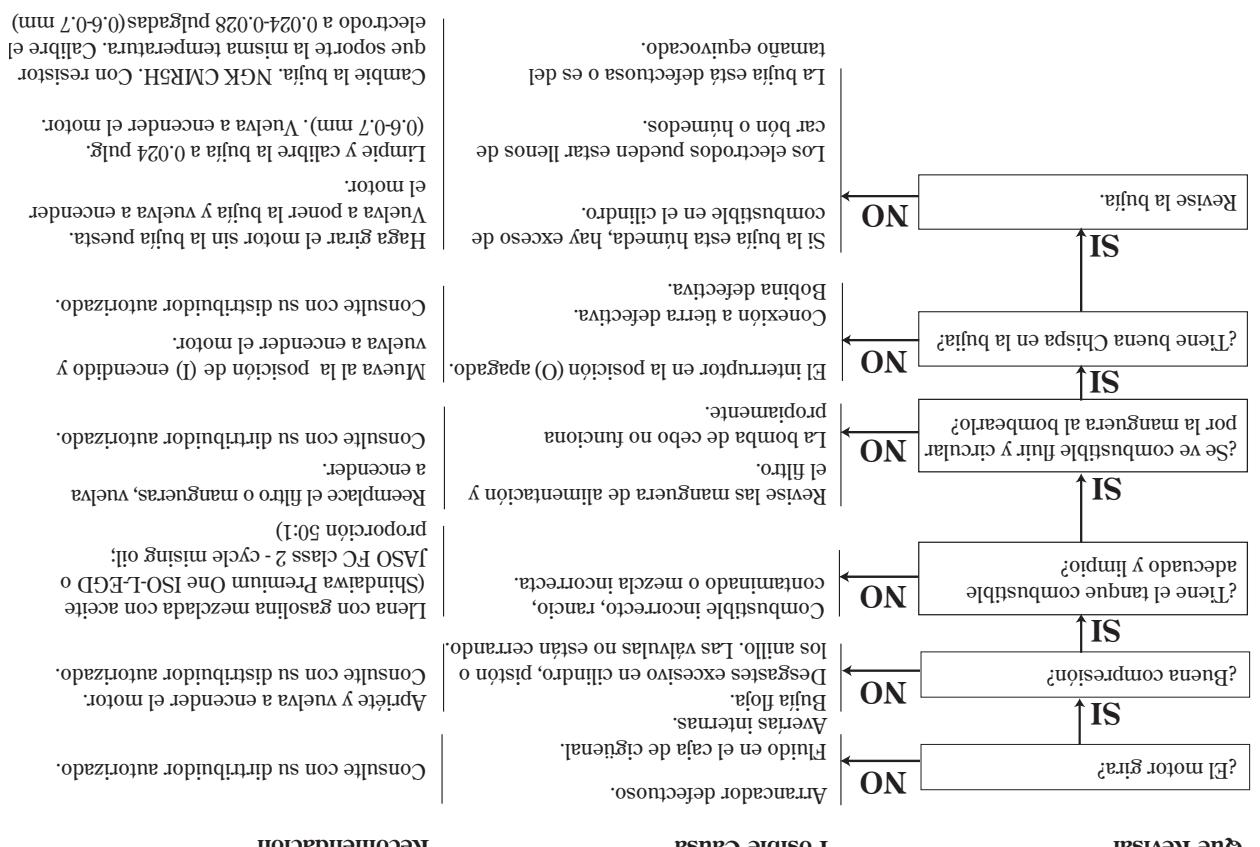
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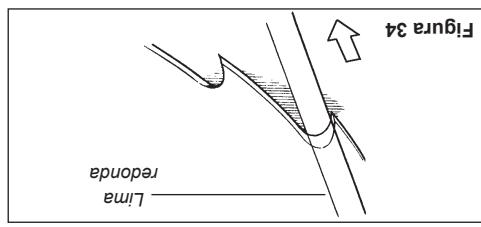
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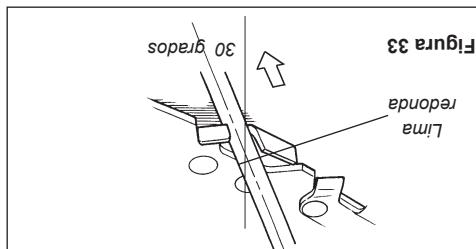
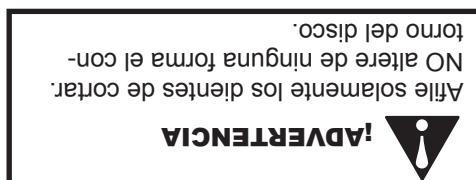
BAJA POTENCIA





Discos de Dientes Multiples

Use una lima redonda para mantener un radio de 0,04 a 0,06 pulgadas (1 a 1,5mm) en la base de cada diente. Los dientes deben quedar igualmente descentrados por cada lado. Consulte la figura 34.



- Retirar la bujía y vierta aproxímadamente 1/4 de onza de aceite de motor en el carburador.
- Usada por 30 días o más, si se los siguienes procedimientos para preparar su almacenamiento:
- Limpiar las partes externas y aplicar una capa ligera de aceite a todas las superficies metálicas.
- Drene todo combustible en el tanque.
- Retirar el resto del combustible en las tuberías de combustible y carburador.
- Antes de almacenar la máquina, prepare o cambie cualquier pieza dañada o gastada.
- Retirar el elemento del filtro de aire y limpielo minuciosamente con agua jabón. Deje que seque y vuelva a ensamblar el elemento.
- Use una lima redonda para mantener un radio de 0,04 a 0,06 pulgadas (1 a 1,5mm) en la base de cada diente. Los dientes deben quedar igualmente descentrados por cada lado. Consulte la figura 34.

PRECAUCIONES

Gasolina almacenada en el carburador por períodos largos puede causar traves del agujero de la bujía.

Lentamente jale el arrancador 2 ó 3 veces para que el aceite se aplique uniformemente en el interior del motor.

Retire el resto del combustible en las tuberías de combustible y carburador.

Retire el bombillo de cébado hasta que el combustible dejé de pasar.

Empuje la bombilla de cébado hasta que el combustible dejé de pasar.

Retire el resto del combustible en las tuberías de combustible y carburador.

Retire la bujía y limpie la parte exterior del motor.

■ Limpiar la máquina en el carburador en un arranque duro y puede condensar a un aumento en costo de servicio.

■ Una vez que la máquina no va a ser usada por 30 días o más, si se los siguienes procedimientos para preparar su almacenamiento:

DISCO SHINDAIWA TORMADO™

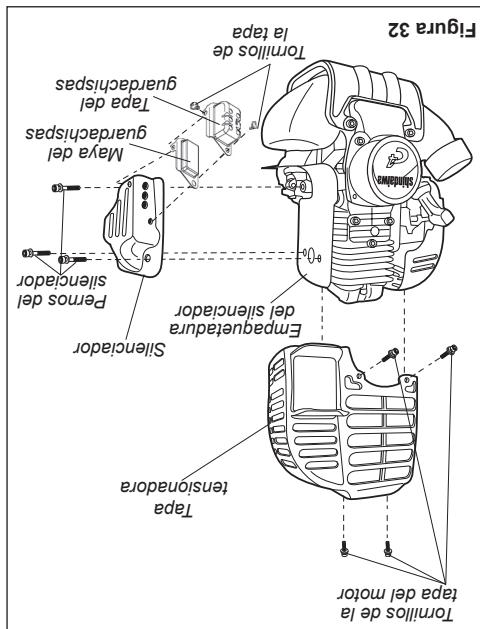
Cuando los bordes de la cuchilla pierden su filo, pueden ser afilados rápidamente con una lima. Para mantener la cuchilla con una lima, use bordes afilados uniformemente.

Para afilar los dientes de cortar de un disco Shindaiwa Tormado™, use una lima similar al de una hoja de afeitar. La super-hoja superior de cada diente hasta obtener un filo recto de 7/32 pulgadas. Afilar el borde inferior de cada diente hasta obtener un filo recto de 30 grados. Consulte la figura 33.

Afilado de Discos

cuando los bordes de la cuchilla pierden su filo, use bordes afilados rápidamente con una lima. Para mantener la cuchilla con una lima, use bordes afilados uniformemente.

Cuando los bordes de la cuchilla pierden su filo, use bordes afilados rápidamente con una lima. Para mantener la cuchilla con una lima, use bordes afilados uniformemente.



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rma

queaduras rotas o dañadas!
queuede volverse a usar. Nunca use empa-
-y/o la usada no esta dañada, la usada
SI la empapadura no esta disponible
queadura de la queadura en la que se aplica.
damente es instante la tapa.

!IMPORTANT

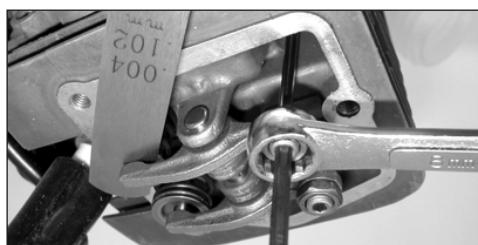


Lá NGK CMR5H también cumple con los requisitos de la regulación de electro manejo (EMC).

NOTA:

Mantenimiento de la Maya Guardachispas

3. Introduzca .004 (0.10 mm) el calibrador para consumo y combustión en medio de la punta de la瓦lvula y del brazo del calibrador.
4. De vuelta al tornillo ajustador (derecha = aprieta, izquierdo = afloja) hasta que el calibrador este bien ajustado. Quite lo un poco para permitir que el calibrador salga sin mucha resistencia.
5. Mineras sostiene el tornillo ajustador en su lugar con un destornillador Allen, apriete la contráutercia con la llave.



!PRECAUCIÓN!

1. Remueva la tapa del cilindro, la cubierta del balancín, y ajuste el pistón a compresión de TDC.

- La cámara de combustión debe de ser descarbonizada y la separación de la valvula ajustada. Es recomendable desgastar 150 horas.



- El ajustar la válvula incorrectamente puede causar dificultad al arrancar y/o dañar la manguera. Vea el manual de servicio C-4 para instrucciones complejas como cómo ajustar las válvulas y las especificaciones correctas de torción.
- Si no esta familiarizado con este motor o no se siente seguro del proceso, consulte con un agente autorizado Shindaiwa.

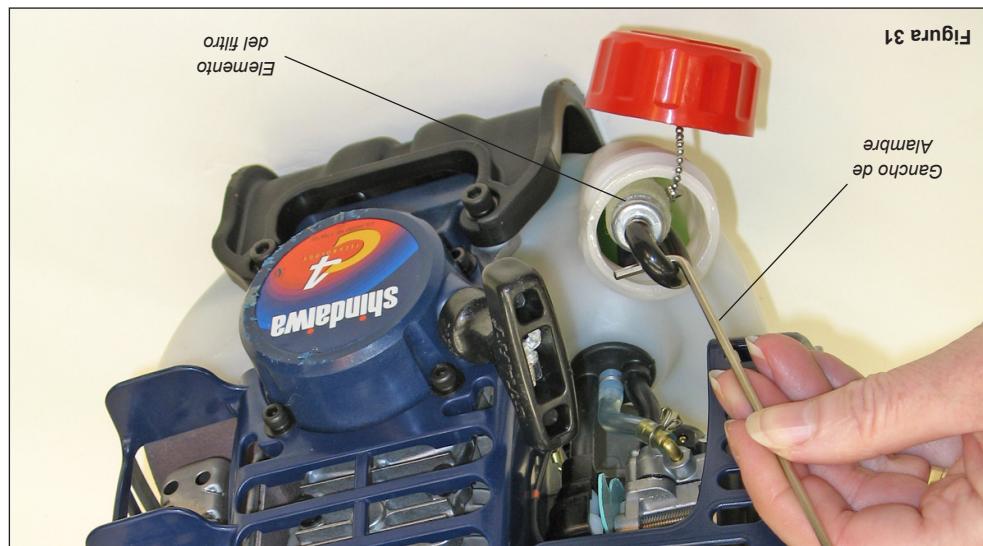
ADVERTENCIAS

Si el motor se pone pereso o tiene basa potencia, revise y llmpe la maya del gusar-dachispas.

Nunca opere la unidad con un silencio-clador o guardachispas dañado o fal-tante! De lo contrario, puede ser un riesgo de incendio y podría tambien causar daños a sus oídos.

1. Con una llave hexagonal de 3 mm retire los tres tornillos de la tapa del motor y la tapa del motor. Consulte la figura 32.

2. Con una llave hexagonal de 3 mm retire los pernos del silenciador y el silen-cia-dor. Consulte la figura 32.



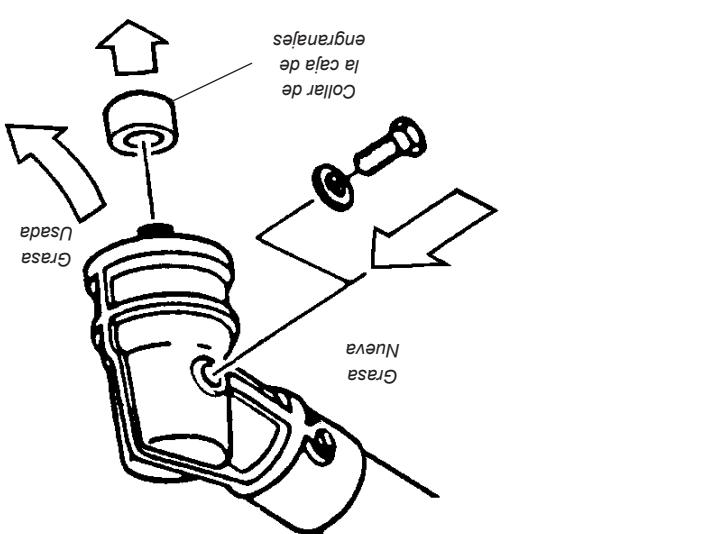
Retire y reemplace el elemento del filtro. Antes de reinstalar el filtro, inspeccione la condición de todo los componentes del sistema de combustible (manguera de alimentación, manguera del ventilador, tubería de combustible o elementos de operación hasta que se pueda servir en el servicio). Si describirse da-

se puede dafiar el accionamiento.

asegure de no perforar la tubería de combustible con la punta del gancho de alambre, pues esta linea es delicada y se puede dañar fácilmente.

iPRECAUCIÓN!

- Use un gancho de alambre para extraer el filtro de combustible del tanque de combustible. Consulte la figura 31.
- Lubrique las estriadas del eje principal.



- Retire el accesorio de correa, el soporte del collar de la caja de engranajes. Retire la tuerca del collar de la caja de engranajes. Retire la grasa usada salga. Use solamente grasa a base de litio.
- Lubrique las estriadas del eje principal.
- Use un gancho de alambre para extraer la figura 30. Consulte la figura 31.

(más frecuentemente bajo condiciones sucias o polvorrientas):

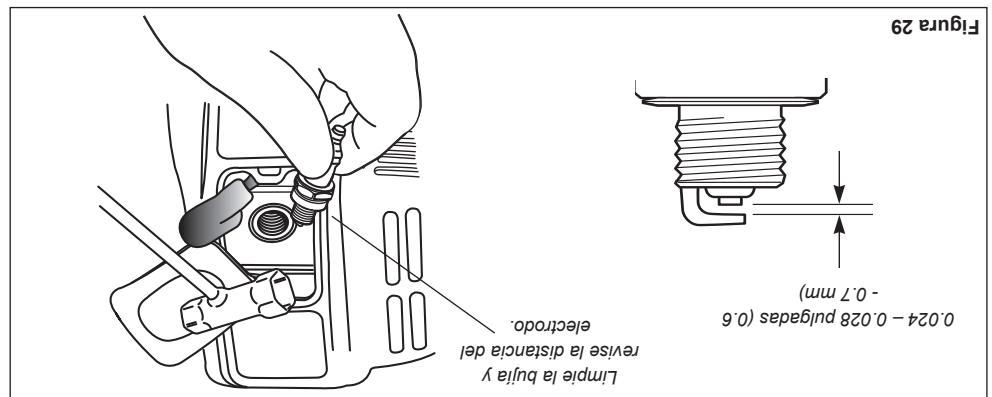
Mantimiento Cada 50 Horas

Antes de retirar la bujía, limpie entre polvo o suciedad a las partes alrededor de la misma para evitar que entre polvo o suciedad a las partes interiores del motor.

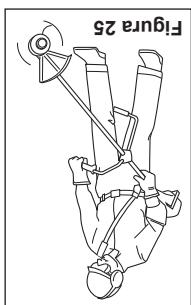
iPRECAUCIÓN!

NOTA: La NGK CMR5H también cumple con los requisitos de la regulación de electro-mangneticos (EMC).

Cada 10 ó 15 horas de operación: Retire y limpie la bujía. Ajuste la distancia del electrodos a 0,024-0,028 pulgadas (0,6-0,7 mm). Si la bujía necesita ser reemplazada, use solamente una bujía NGK CMR5H o una bujía equivalente con resistencia al calor correcta. Consulte la figura 39.

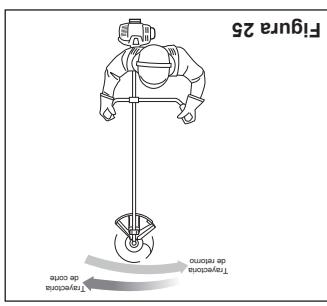


Mantenimiento Cada 10/15 Horas



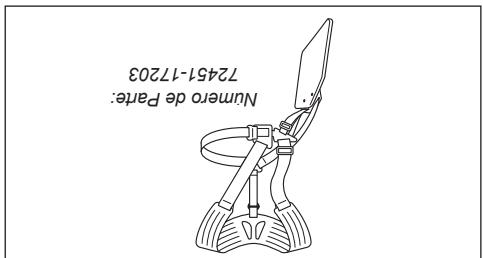
en la figura 25.

como se demuestra
verticalmente
sosteniendo la podadora,
avance hacia adelante,
posicion horizontal) y
la izquierda (desde la
o menos a 100° hacia
hincime el mango más

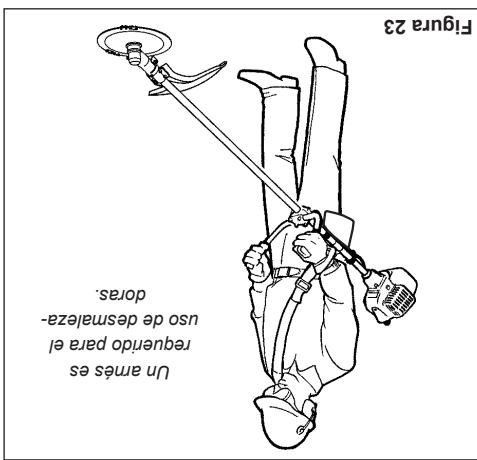


Sostenega la podadora de tal forma que el cabezal este en angulo al area de corte. Para obtener maxima vida util del cable de nylon, corta solamente con la punta del cable. Corte cesped moviendo el cabezal horizontalmente a derecha. Mantenga el cabezal horizontalmente. Consulte la

Corte de Cesped - Maquinaria Equipadas con Cabezal de Corte



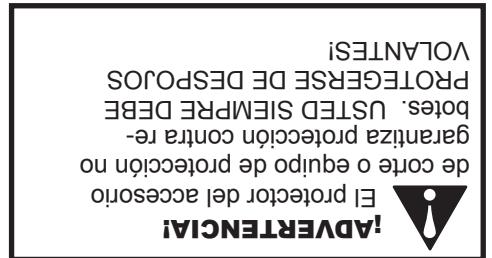
Ajústese el arnes de tal forma que la almohadilla descansé cómodamente sobre los hombros y que la trayectoria del disco esté paralela al suelo. Asegúrese de que todo los ganchos y dispositivos de sujetamiento estén asegurados.



SIEMPRE cerclorase de que el cabezal doblado, reemplacelo con uno util.
NUNCA use un accesorio de corte rajado o
que no esté completamente apretado antes de usar.
SIEMPRE cerclorase de que el acceso-
doblado, reemplacelo por uno nuevo y prubebe.
en caso de propilamente dentro del soperre. Si
un cabezal propilamente instalado vibra,
remplacelo por una que no vibre.

Correa de Hombro C2510

Use solamente requesitos y accesorios autorizados por Shindaiwa en su podadora



Shimadaawa. No haga modificaciónes a la Universidad Shimadaawa. Si la aprueba la escrita de Shimadaawa,

Verifique la Condición de la Unidad

ser cambiados en el campo.

4. Los ajustes de mezcla de carburador son preajustados en la fábrica y no pueden

RPM (±300) RPM (mín.).

3. Si tiene un tacómetro disponible, la marcha mínima se debe ajustar a 3,000

Consulte la figura 22.

señido contrario a las agujas del reloj.

Consulte la figura 22.

2. Si el accesorio de corte NUNCA debe

motor está en marcha mínima, reduzca

la marcha mínima girando el tornillo

de ajuste de marcha mínima en el

hasta que caliente.

1. Coloque la podadora en el suelo, luego

encienda el motor y déjelo funcionar en

marcha mínima durante 2 o 3 minutos

cuando la palanca del acelerador es

funcionada el motor y déjelo funcionar en

marcha mínima durante 2 o 3 minutos

hasta que caliente.

Shindaiwa para inspección.

devuelva la podadora a su distribuidor

procedimiento de servicio adulto, entonces

minima no puede ser ajustada por el

girar en marcha mínima! Si la marcha

el accesorio de corte NUNCA debe



ADVERTENCIA!

Ajuste de Marcha Mínima

El motor debe retorner a marcha mínima

permítale suficiente combustible

liberada. La marcha mínima es ajustable

cada la palanca del acelerador es

funcionada la palanca del acelerador es

funcionada el motor y déjelo funcionar en

marcha mínima durante 2 o 3 minutos

hasta que caliente.

1. Coloque la podadora en el suelo, luego

encienda el motor y déjelo funcionar en

marcha mínima durante 2 o 3 minutos

hasta que caliente.

2. Si el accesorio de corte NUNCA debe

motor está en marcha mínima, reduzca

la marcha mínima girando el tornillo

de ajuste de marcha mínima en el

hasta que caliente.

3. Si tiene un tacómetro disponible, la

marcha mínima se debe ajustar a 3,000

hasta que caliente.

4. Los ajustes de mezcla de carburador

son preajustados en la fábrica y no pueden

RPM (±300) RPM (mín.).

5. Coloque la podadora en el suelo, luego

encienda el motor y déjelo funcionar en

marcha mínima durante 2 o 3 minutos

hasta que caliente.

6. Coloque la podadora en el suelo, luego

encienda el motor y déjelo funcionar en

marcha mínima durante 2 o 3 minutos

hasta que caliente.

7. Operando el acelerador automático

permite desenganchara la marcha

camina despegue el motor desde la

posición de operación.

8. Coloque la palanca del acelerador a la

posición "O" (motor apagado)

deslice el interruptor de ignición a la

posición "O" (motor apagado).

Ponga el motor en marcha mínima por dos

tres minutos antes de apagarlo, luego

deslice el interruptor de ignición a la

posición "O" (motor apagado).

9. Coloque la palanca del acelerador a la

posición "O" (motor apagado).

10. Coloque la palanca del acelerador a la

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92. Coloque la palanca del acelerador a la

posición "O" (motor apagado).

La C2510 debe estar ahora completamente ensamblada y lista para ser usada con una cuchilla.

7. Retire la llave hexagonal.
6. Instale el protector de perno y luego en dirección contraria a las agujas del reloj.
5. Instale el sujetador B en el eje de salida. Consulte la figura 15. El reborde en el sujetador de seguridad combinaido, apriete el perno firmemente usando la llave de bujía/destornillador el perno de retención de la cuchilla.
4. Instale el protector de perno y luego apretadamente contra la cuchilla. Consulte la figura 15. El reborde en el sujetador de seguridad combinaido, apriete el perno firmemente el sujetador de seguridad, y deseche el sujetador A.
3. Consulte la figura 15. El reborde en el sujetador de seguridad combinaido, apriete el perno de retención de la cuchilla.

Figura 15

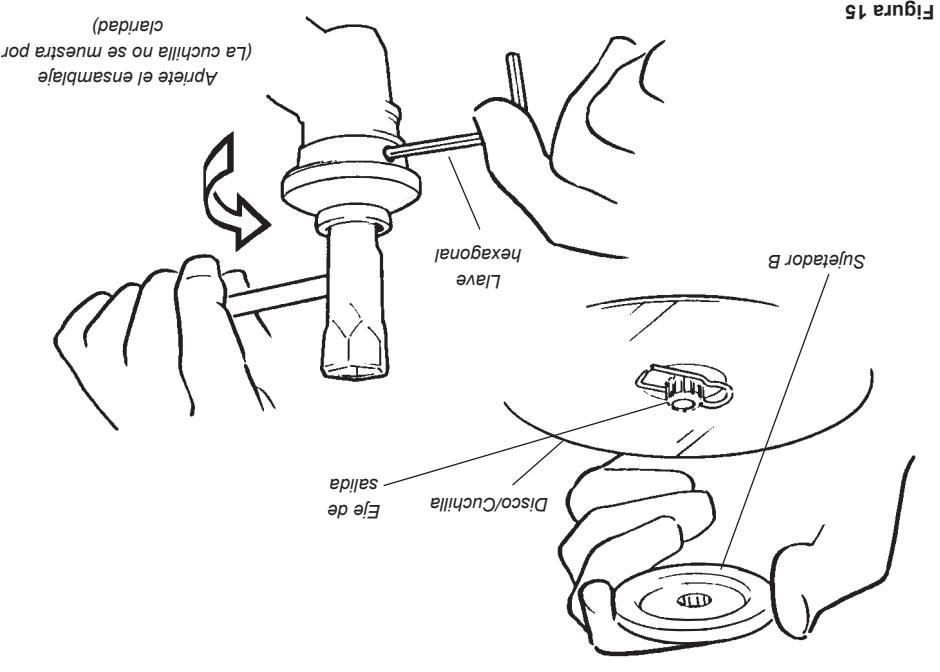


Figura 14

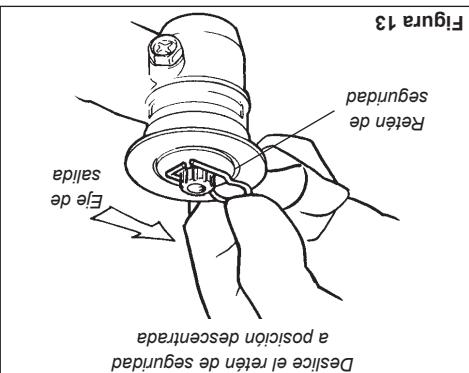
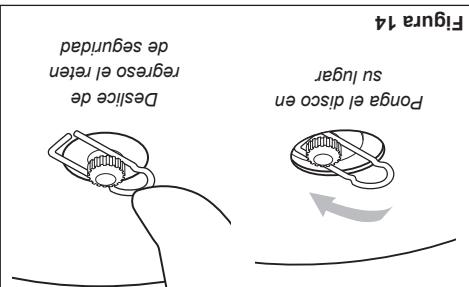
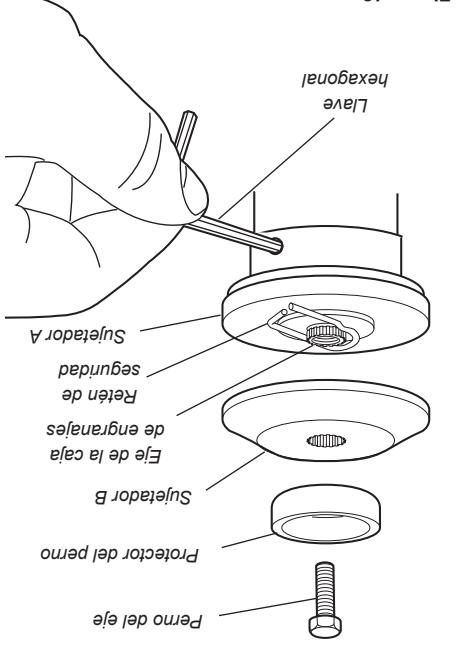


Figura 12



IMPORATANTE!

!ADVERTENCIA!

Nunca opere la C2510 sin el reten de seguridad instalado.

4. Asegure el disco en su lugar centralizando el reten de seguridad en el eje de salida.
3. Consulte la figura 14. Asegure el sujetador de seguridad en el eje de salida.

Cuando instale cierros discos, pude que sea necesario retilar temporalmente el reten de seguridad.

NOTA:

!ADVERTENCIA!

El disco debe encasjar en forma plana contra el borde del sujetador. La mueca de montaje del disco debe estar centrada sobre el patron elevado en el sujetador de disco A.

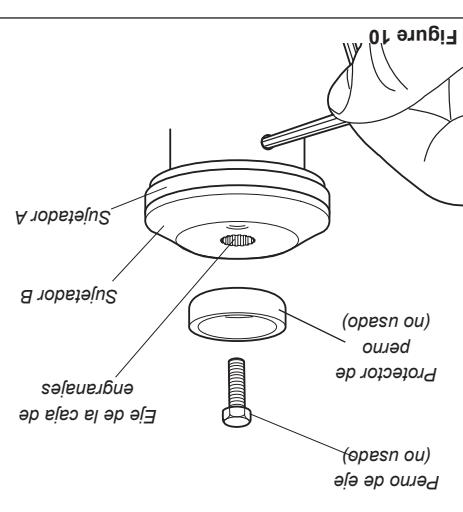
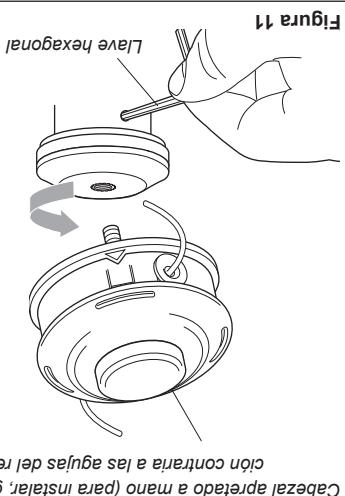
!PRECAUCION!

Instale el disco de tal manera que su superficie impresa sea visible al operador cuando la unidad este en la posición normal de operación.

1. Alinie la mueca en el soporte A con la del soporte B. Consulte la figura 14.
2. Deslice el reten de seguridad fuera del eje de la cuchilla sobre el borde central. Consulte la figura 13.
3. Encuje la cuchilla sobre el reten de seguridad y luego centrilo sobre el borde del soporte A. Consulte la figura 14.

Instalando la Cuchilla

La C2510 debe estar ahora completamente ensamblada para ser operada como podador o desmalezadora



NOTA:

Assegurese que el sujetador B es instalado en la caja de engranajes con el eje de la caja de engranajes.

NOTA:

2. Usando la llave combinación de bujía, retire el sujetador de perno. Consulte la figura 10.

3. Usando la llave hexagonal para asegurar el sujetador A en la caja de engranajes con la muesca en la borda de la caja de engranajes.

4. Retire la llave hexagonal de la caja de engranajes y del sujetador. Consulte la figura 11.

5. Usando la llave hexagonal para instalar el sujetador A en la caja de engranajes con la muesca en la borda de la caja de engranajes.

6. Usando la llave combinación de bujía, retire el sujetador de perno. Consulte la figura 10.

7. Usando la llave combinación de bujía, retire el sujetador A en la caja de engranajes con la muesca en la borda de la caja de engranajes.

8. Usando la llave combinación de bujía, retire el sujetador A en la caja de engranajes con la muesca en la borda de la caja de engranajes.

Instalación del Cabezal de Nylon

Ensamble el mango tipo barra:

1. Use la llave hexagonal de 4 mm para retirar los tornillos de retención de la abrazadera inferior del soporte del mango. Separe la abrazadera de la manga. Jísele en la tapa de la abrazadera. Jísele en la posición de reposo del mango. Vuelva a ensamblar la ción del mango. Quite las partes de la abrazadera inferior desmontar la manga. Quite la manga en una forma con retencción de ambos tornillos de exterior. Apriete firmemente ambos tornillos de exterior con las dos bandas que vienen en el kit de herramientas. Consulte la figura 5.
2. Posicione el mango sobre el tubo exterior. Coloque la manga en la posición de reposo del mango. Vuelva a ensamblar la ción del mango. Quite las partes de la abrazadera inferior desmontar la manga. Quite la manga en una forma con retencción de ambos tornillos de exterior. Apriete firmemente ambos tornillos de exterior con las dos bandas que vienen en el kit de herramientas. Consulte la figura 5.
3. Posicione el mango en una forma con retencción de la tapa inferior. Apriete firmemente ambos tornillos de exterior con las dos bandas que vienen en el kit de herramientas. Consulte la figura 5.
4. Apriete firmemente ambos tornillos de exterior con las dos bandas que vienen en el kit de herramientas. Consulte la figura 5.
5. Apriete el cable de acelerador hacia dentro o fuera como sea requerido para obtener la holgura apropiada 3/16-1/4 pulgadas (4.6 mm). Consulte la figura 8.
6. Madamente de 3/16-1/4 pulgadas (4.6 mm). Consulte la figura 6. Cerciórese que el gatillo de aceleración opere suave mente sin trabarse. Si es necesario ajustar la holgura, siga los procedimientos e instaciones a continuación.

Ajustes

Ajuste la holgura del acelerador

Figura 6

3/16-1/4 pulgadas (4.6 mm)
Holgura del acelerador

Figura 7

Figura 8

Cable
Cable de seguridad
Tuerca de ajustador
Tuerca de seguridad

1. Extraiga la cubierta del impulsor de aire slijando los dos tornillos de mano. Consulte la figura 7.

2. Afloje la tuerca de seguridad en el cable ajustador. Consulte la figura 8.

3. Gire el cable ajustador hacia dentro o fuera como sea requerido para obtener la holgura apropiada 3/16-1/4 pulgadas (4.6 mm). Consulte la figura 8.

4. Apriete las tuercas de seguridad.

5. Reemplace la tapa del filtro de aire.

Asegurarse de que el tornillo sujetador y el retén estén debidamente apretados antes de apretar los tornillos de cabecera allen.

!PRECAUCIÓN!

Asegurarse que el protector secundario enganchado con el receptor del gancho.

!ADVERTENCIA!

JAMAS utilice esta maquinaria sin el protector secundario cuando el cablezal de corte este en uso.

!ADVERTENCIA!

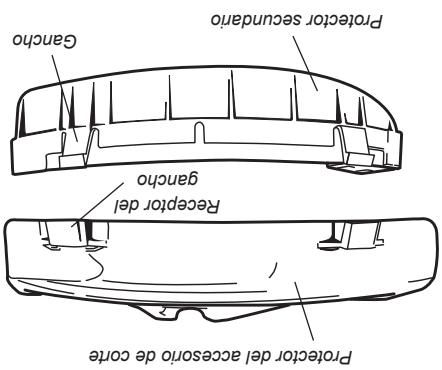
1. Una la extensión del protector al protector del implemento de corte. (cuando el cablezal está en uso)

Protector Secundario C2510.

NUNCA opere la unidad sin el protector del accesorio de corne instalado y asegurado firmemente.

!ADVERTENCIA!

Proteger la unidad sin el protector del accesorio de corne montaje. Consulte la figura 9.



Protector del accesorio de corne

3. Apriete los tornillos de cabecera allen para asegurar el protector del accesorio de corne.

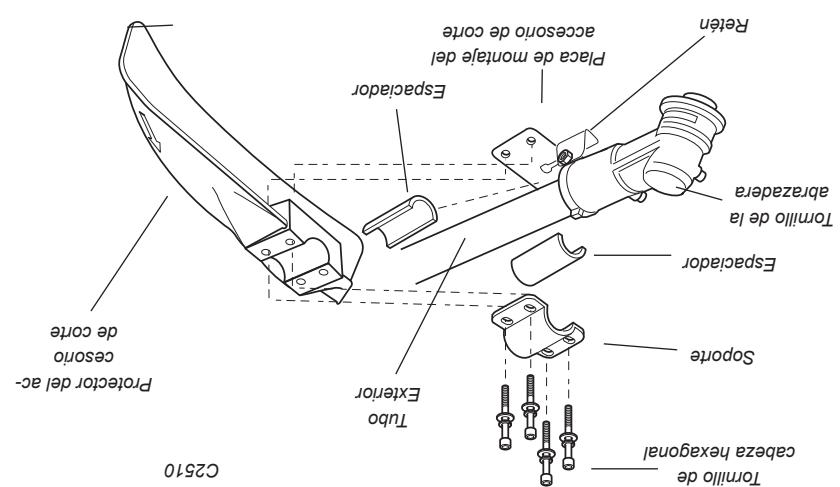
2. Coloque los dos espaciadores y el tornillo sujeter para ajustar la placa de montaje del protector del accesorio de corne.

Puede ser necesario aflojar el retén y el tornillo sujeter para ajustar la placa de montaje. Consulte la figura 9.

NOTA:

1. Imserre el protector del accesorio de corne C2510. Instale el protector del accesorio de corne C2510.

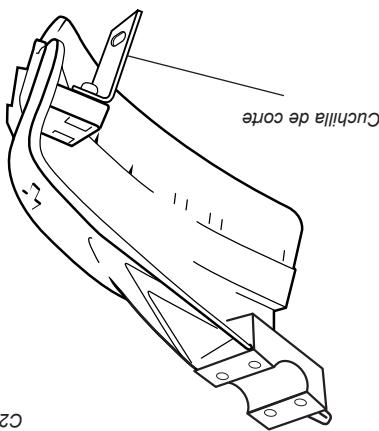
Figura 9



Ensamblaje

Protector del accesorio de corne

Figura 9A



C2510

Protector del accesorio de corne

IMPORTANTE!

Los terminos "izquierda", "derecha", "mano izquierda", "RH", "derecha", "y "traser", indicaan direcciones desde el punto de vista del operador durante la operacion normal de este producto.

** El cumplimiento de normas EPA requiere que el motor cumpla con los requisitos de horas de operacion para la cual el motor ha demostado cumplir con los requisitos de emisiones EPA para todo los productos de Shindaiwa.

* Cumple o excede estas especificaciones y es reco.

UNE mendada para todo los productos de Shindaiwa.

Periodo de Cumplimiento con Regulaciones de Emisiones EPA..... Categoría A

Periodo de Cumplimiento con Regulaciones con engranajes helicoidales

Tipo de Transmision Automatica, embrague centralizado

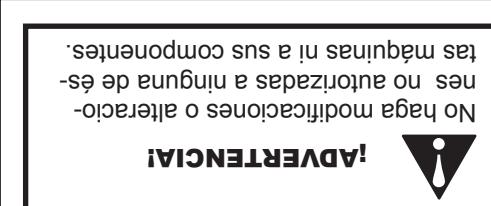
Metodo de Parada Interrupcion. Interruptor

Metodo de Arreglo Recularr

Metodo de Arreglo uso pessado.

Filtro de Aire Elemento no reversible de

Bujia NGK CMR6H



Use las ilustraciones como guia, familiaricese con esta unidad y sus varios componentes. Consulte la figura 4.

Conociendo la unidad le ayudara a obtener alto rendimiento, vida util mas prolongada y operacion con seguridad.

(sin accesorios) 11.5 libras/5.2 kg

Modelo de Motor SF2510E

Tipo de Motor con recamara de impulso

Diametro x Carrera 1.3 x 1.1 in./34 mm x 27 mm

Cilindrada 1.5 pulg. Cilicas/24cc

Potencia Maxima..... 1.8 HP/0.8 KW @7500 rpm (min-1)

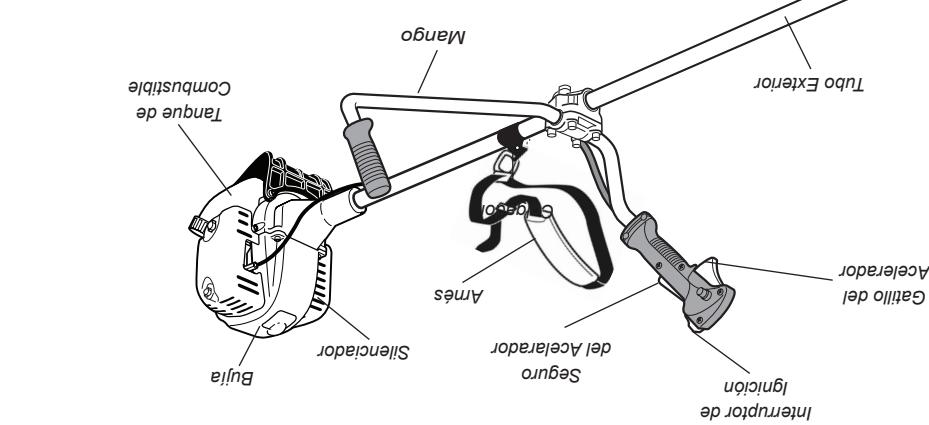
Combustible/Acete 50:1 con ISO-L-EGD o JASO

Capacidad del Tanque 20.3 onzas/600 ml

de Combustible 20.3 onzas/600 ml

Sistema de Encendido El un-pieza electrica,

el programa controlado



Descripción del Producto

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Esta unidad viene completamente ensamblada con la excepcion del mango exterior. Los terminos "izquierda", "derecha", "mano izquierda", "RH", "derecha", "y "traser", indicaan direcciones desde el punto de vista del operador durante la operacion normal de este producto.

■ Motor/Tubo de montaje del la parte exterior.

■ Accesorio de corte exterior.

■ Kit contenido el soporte y utensilios de metal para montar el protector del accesorio de corte, este manual del propietario/operador y juego de herramientas para mantenerlo en buen estado.

■ Antes de ensamblar

Antes de ensamblar, cerciorase de que para armar una maquina completa tiene todos los componentes necesarios para armarse la unidad y componentes en busca de daños.

Esta unidad viene completamente ensamblada con la excepcion del mango exterior. Los terminos "izquierda", "derecha", "mano izquierda", "RH", "derecha", "y "traser", indicaan direcciones desde el punto de vista del operador durante la operacion normal de este producto.

■ Accesorio de corne de corta.

■ Antes de ensamblar

Antes de ensamblar, cerciorase de que para armar una maquina completa tiene todos los componentes necesarios para armarse la unidad y componentes en busca de daños.

Figura 4

Especificaciones C2510

desconectar la llave de ignecia.

varian por modelo y pueden incluir una llave hexagonal, llave bujia y llave de estornillador, y una llave inglesa.

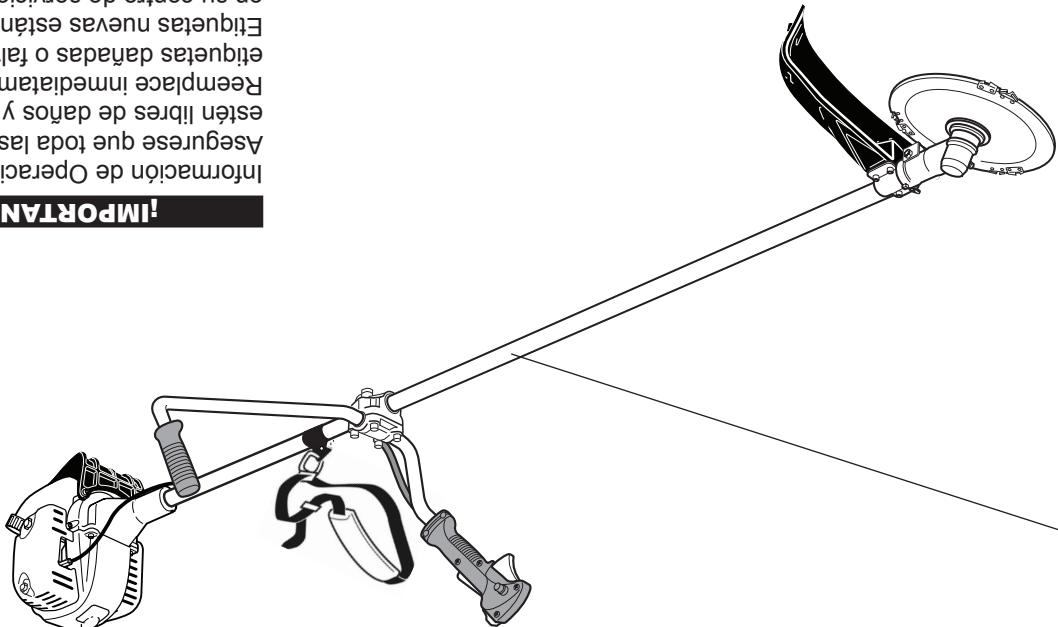
busca de daños.

despecificaciones sujetas a cambios sin previo aviso.

Especificaciones sujetas a cambios sin previo aviso.

Figura 3

Información de Operación:
Asegúrese que todas las etiquetas estén lisas y legibles.
Reemplace imediatamente etiquetas dañadas o faltantes.
Están libres de daños y legibles.
Etiquetas nuevas están disponibles en su centro de servicio local autorizado de Shindaiwa.



C2510



Etiquetas de Seguridad

Figura 2

Este alerta durante largo tiempo bajo temperaturas muy bajas o muy frías. Cerciorase de que los transenentes u observadores estén fuera de la "zona de peligro" de 50 pies usen protección de ojos.

Tenga mucho cuidado al trabajar sobre terrenos resbalosos, especialmente en tiempos de lluvia.

Si hace contacto con un objeto sólido, deje que el motor e inspeccione el accesorio de cortado de cortes. Tenga mucho cuidado con el accesorio de cortado de cortes con el accesorio de cortado de cortes.

Este constanteamente alerta de los objetos y desechos que pueden ser lanzados por el accesorio de cortado de cortes de cortador de cortes.

Si hace contacto con un objeto sólido, deje que el motor e inspeccione el accesorio de cortado de cortes.

Siempre cerciorase de que el protector del cable de cortado y el accesorio de cortado de cortes estén bien sujetos.

Cuando trabaje en un terreno rocoso o cerca de cables o cercas eléctricas, use extremo cuidado y evite tocarlos con el accesorio de cortado de cortes.

Reduzca el riesgo de que alguien se golpeeado por un objeto volante. Asegúrese de que nadie esté dentro de un radio de 50 pies (15 metros) de distancia de un accesorio en operación. Esto es aproximadamente 16 pasos.

Reduzca el riesgo de que alguien se golpeeado por un objeto volante. Asegúrese de que nadie esté dentro de un radio de 50 pies (15 metros) de distancia de un accesorio en operación. Esto es aproximadamente 16 pasos.

50' pies.

50' pies.

Este Alerta del Área de Trabajo

Instrucciones de Seguridad El Operario Debidamente Equipado

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SIEMPRE use un arnes cuando opere una unidad equipada con disco/cuchilla.

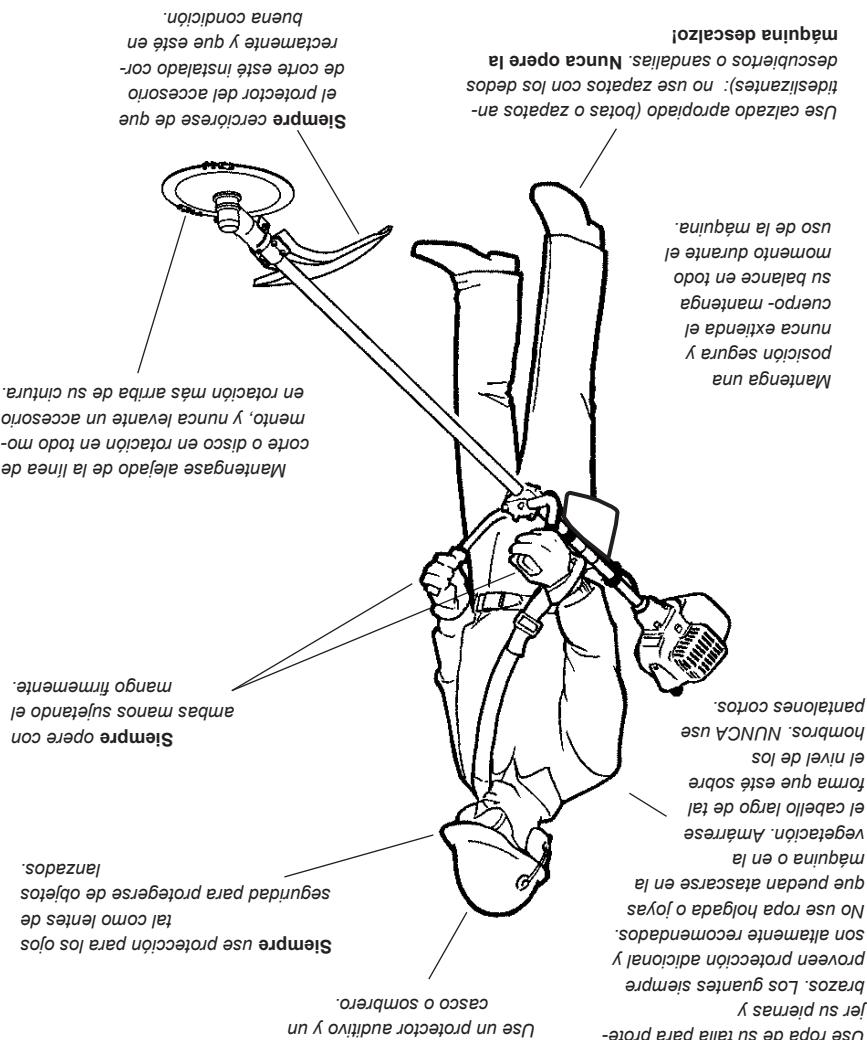


Figura 1

SIEMPRE, si el disco/cuchilla se arbol para liberar el disco/cuchilla.

SIEMPRE bujía antes de hacer mantenimiento a la mazulina.

SIEMPRE sujetate la mazulina firmemente con ambas manos cuando corta o recorte, y mantenga las limpia posible. Mantenga la mazulina su mazulina.

SIEMPRE extienda el cable de nylón en todo momento.

SIEMPRE sujetate la mazulina mangos limpios.

SIEMPRE extienda el cable de nylón en todo momento.

SIEMPRE sujetate la mazulina mangos limpios.

SIEMPRE sujetate la mazulina firmemente si se rompe la mazulina.

SIEMPRE sujetate la mazulina firmemente si se rompe la mazulina.

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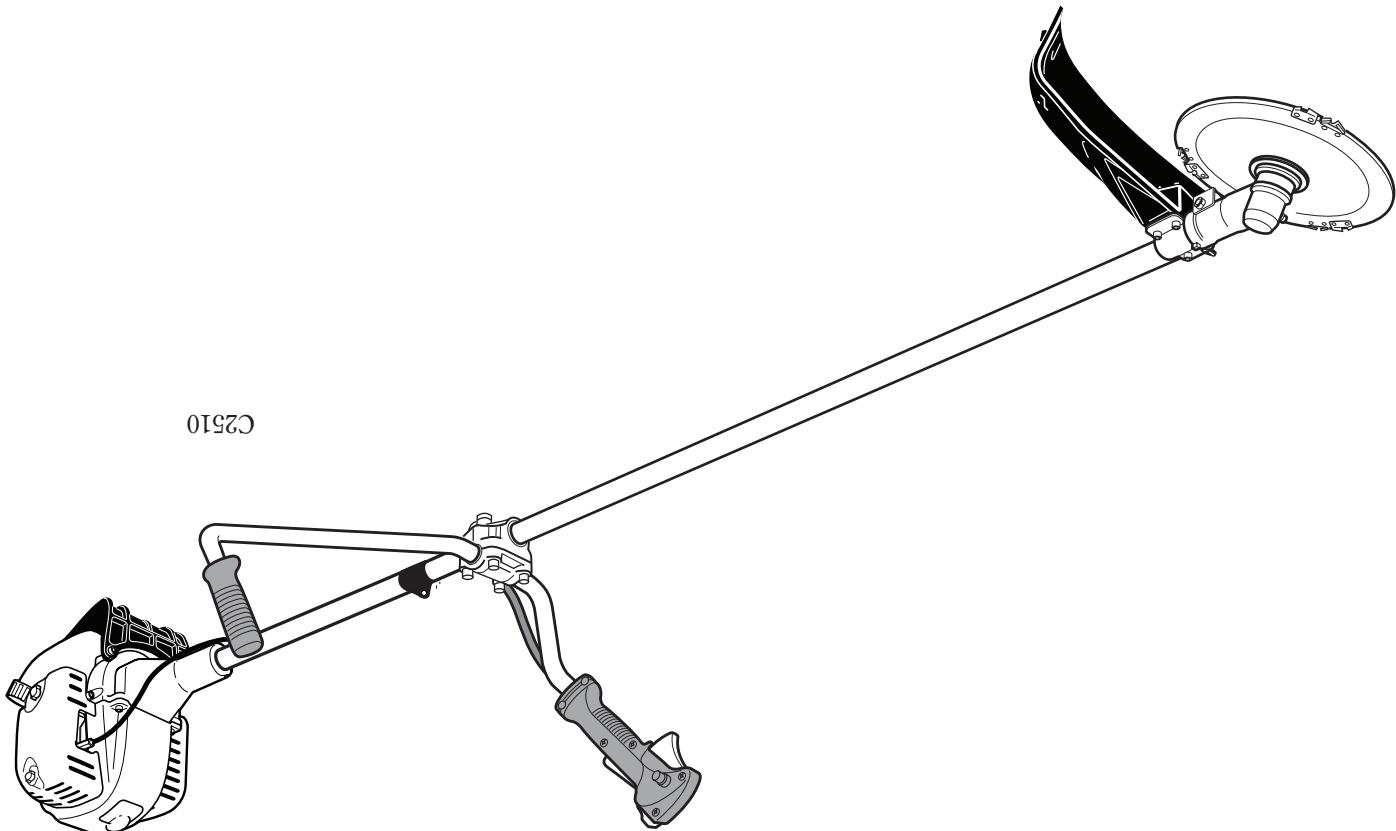


shindaiwa

Disminuya el riesgo de sufrir lesiones o causar
lesiones a otros! Lea este manual y familiarícese con su
contenido. Siempre use protección para los ojos y oídos
cuando opere esta máquina.

!ADVERTENCIA!

C2510



Desmalezadora C2510

MANUAL DEL PROPIETARIO/OPERADOR SHINDAIWA

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