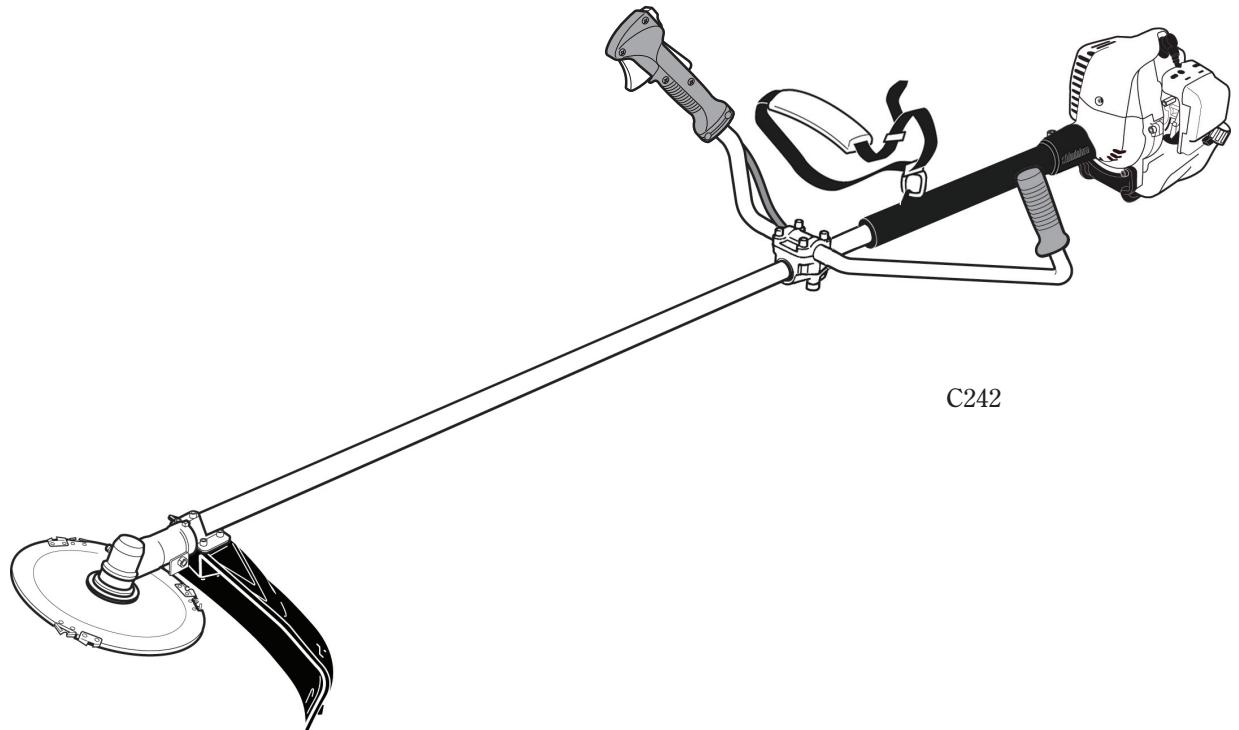


SHINDAIWA OWNER'S/OPERATOR'S MANUAL

C242 BRUSHCUTTER



C242



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 81644 Rev 1/07

Introduction

The Shindaiwa 242 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.



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 242 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

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.



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 to a place well 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 spark arrester screen in place.

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 over-reach—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.

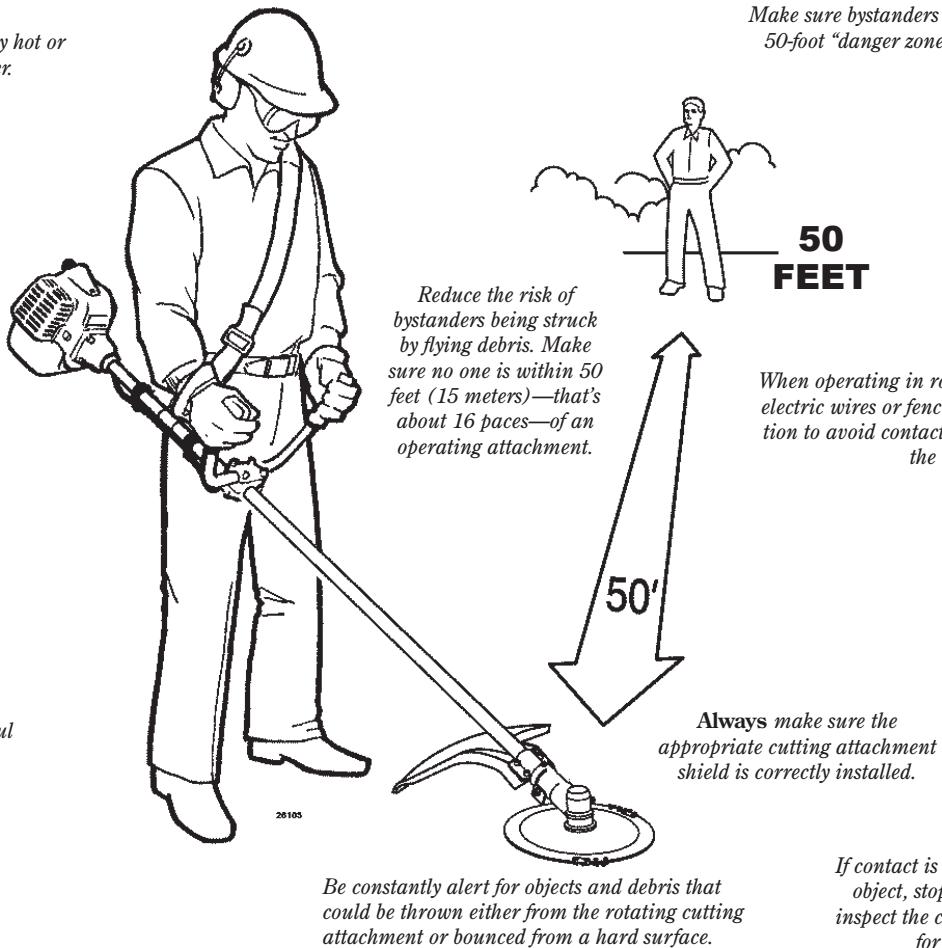
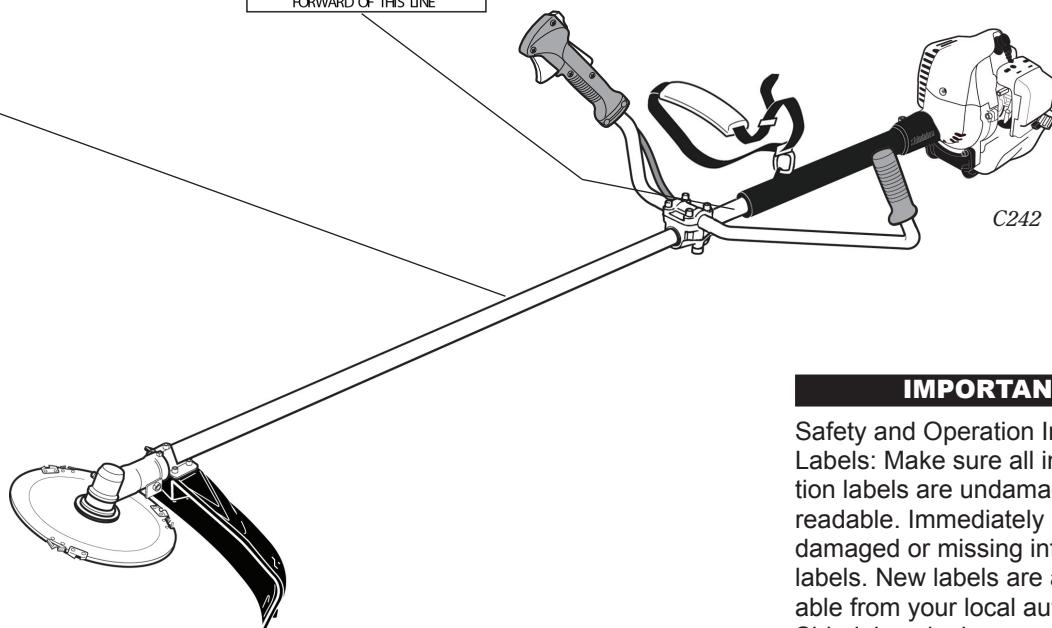


Figure 2

Safety Labels



This label indicates the minimum distance between front handle and rear grip per ANSI B175.3.



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

C242 BRUSHCUTTER

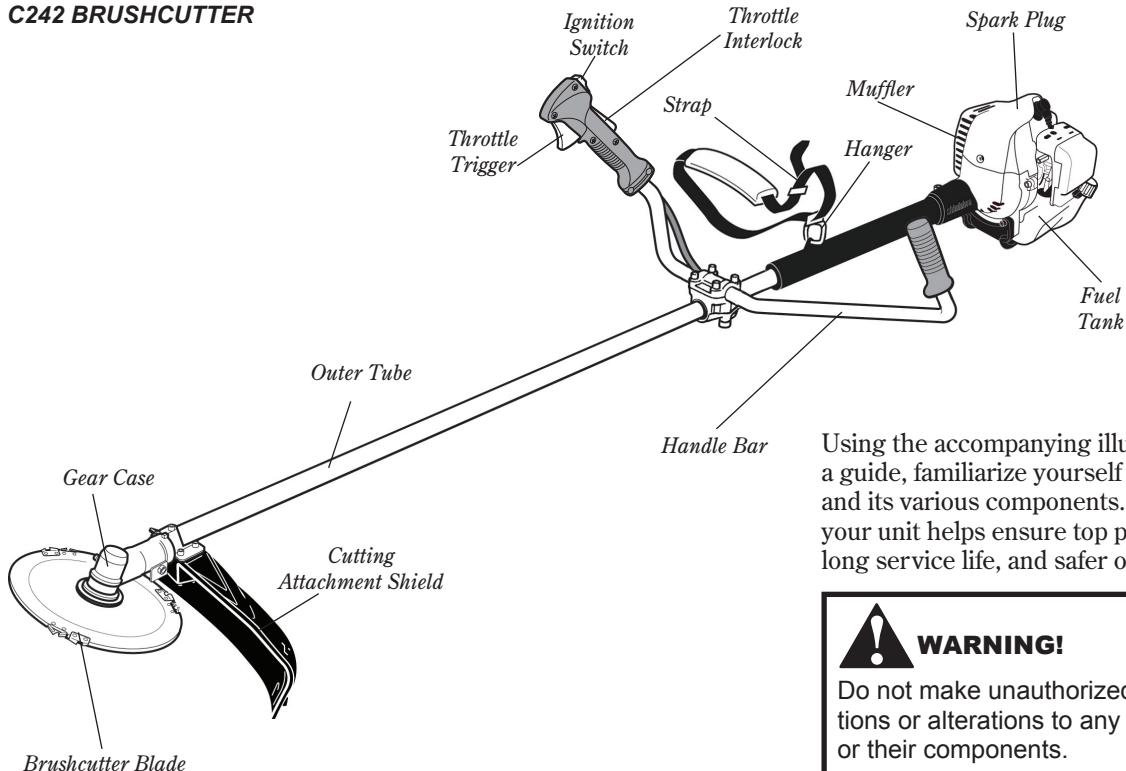


Figure 4

Using the accompanying illustrations as a guide, familiarize yourself with this unit and its various components. 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 C242

C242 dry weight (less attachments).....	12.4 lb./5.6 kg
Engine model.....	S242E
Engine type.....	2 cycle catalyst
Bore x stroke.....	1.3 x 1.1 in./33 mm x 28 mm
Displacement.....	1.5 cu. in./23.9 cc
Maximum power	1.0 HP/0.8 kW @ 8,000 RPM (min ¹)
Fuel/oil ratio.....	50:1 with ISO-L-EGD or JASO FC class 2-cycle mixing oil*
Carburetor type	Walbro WYK, diaphragm-type
Fuel tank capacity	22.3 oz./670 ml
Ignition	One-piece electronic, transistor-controlled
Spark plug.....	NGK BPMR6A

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 shield
- 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, and a spark plug/screwdriver combination wrench.

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

*  **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).

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

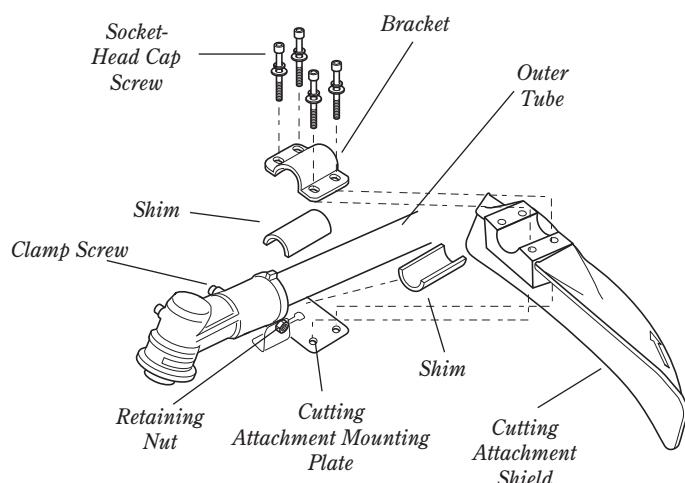


Figure 5

Cutting Attachment Shield

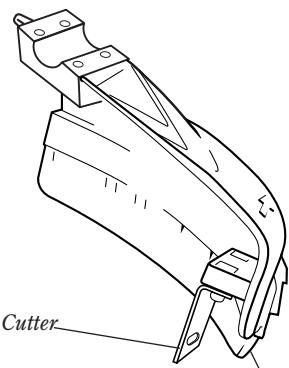


Figure 5A

Install the Cutting Attachment Shield C242

1. Insert the cutting attachment shield between the outer tube and the cutting attachment mounting plate. See Figure 5.

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 5.
3. Tighten the four socket-head cap screws to secure the cutting attachment shield.
4. Re-tighten clamp screw and retaining nut.

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 C242

(when trimmer head is in use)

1. Attach the shield extension to the cutting attachment shield. See figure 6.



WARNING!

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

Cutting Attachment Shield

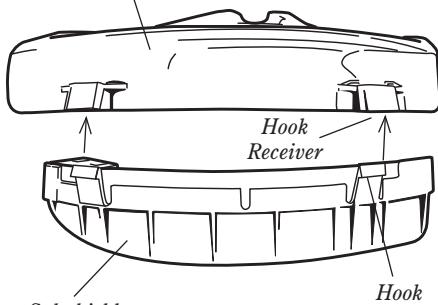


Figure 6

CAUTION!

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

Assembly (Continued)

Handle Bar C242

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 7.
2. Position the handle on the outer tube forward of Handle Positioning Label as shown in Figure 7. 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 7.

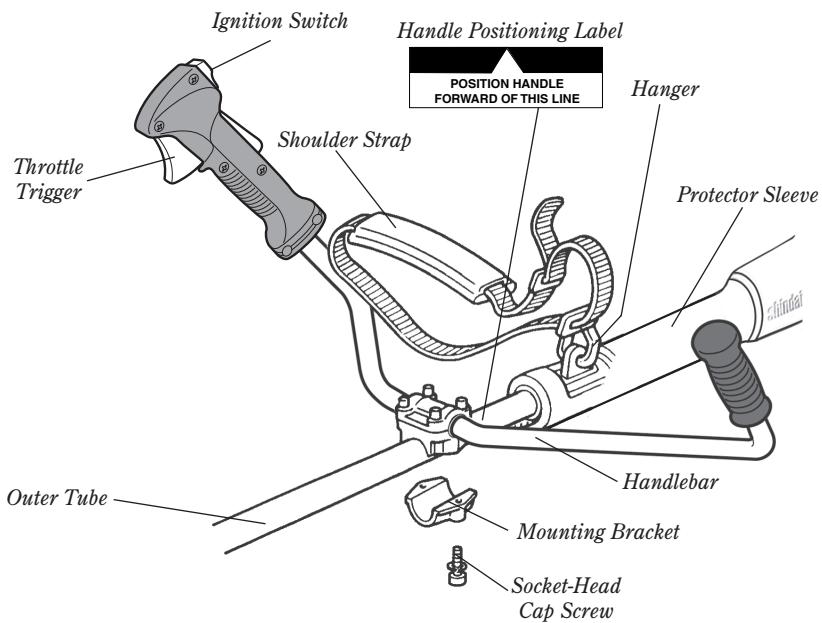


Figure 7

C242

Adjustments

Adjust Throttle Lever Free Play

The throttle lever free play should be approximately 3/16-1/4 inch (4-6 mm). See Figure 8. 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.

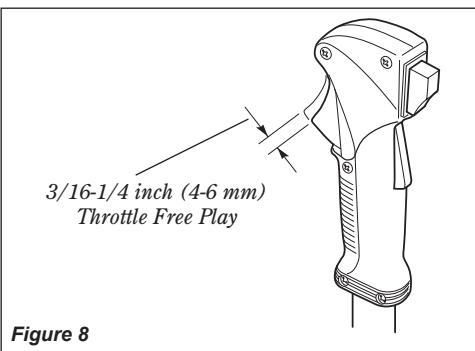


Figure 8

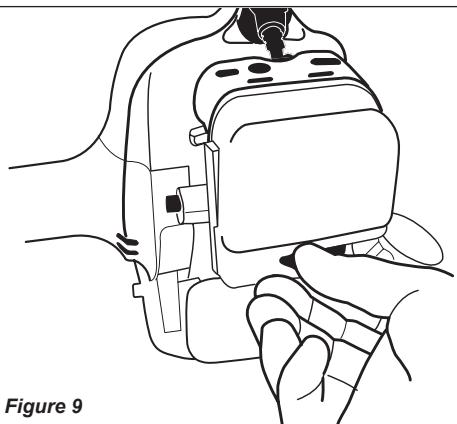


Figure 9

1. Loosen the air cleaner cover knob and remove the air cleaner cover. See Figure 9.
2. Loosen the lock nut on the cable adjuster. See Figure 10.

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 10.
4. Tighten the locknut.

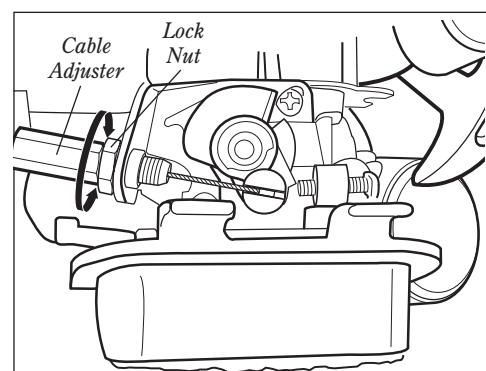


Figure 10

5. Reinstall the air cleaner cover.

Installing a Trimmer Head

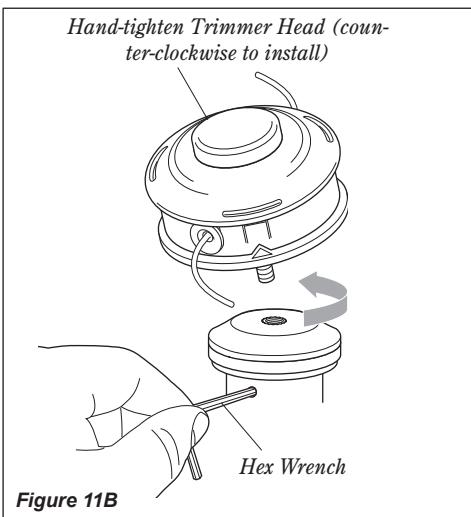
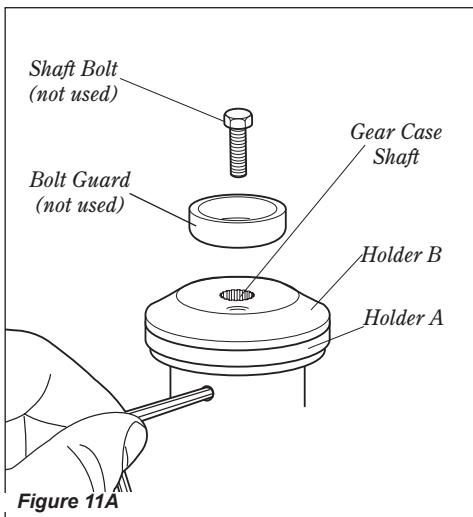
NOTE:

The C242 is shipped with Holder A, 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 11A.
- Using the combination spark plug/screwdriver wrench, remove the shaft bolt and bolt guard. See Figure 11A.

NOTE:

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



The C242 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 11B.
- Remove the hex wrench from the gear case and holder.

Installing a Blade

Turn the C242 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. Fit the blade over the flange on holder A. See Figure 13.

IMPORTANT!

Both holders must be flat against the surface of the blade.

3. Install blade holder B on the output shaft. See Figure 13.
4. 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. The holder B must fit flush against the blade.
5. Remove the hex wrench.

The C242 should now be completely assembled and ready for use with a blade.

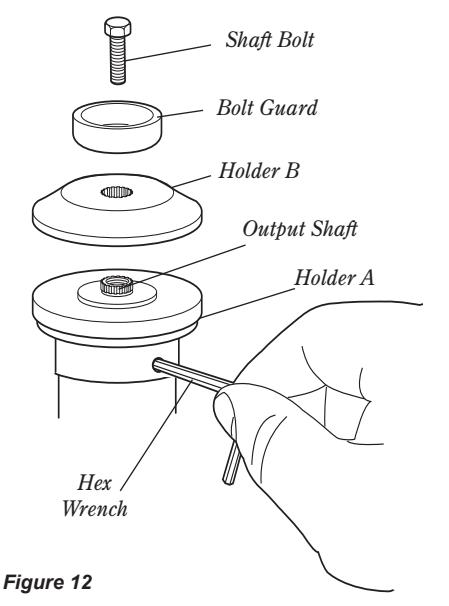


Figure 12

CAUTION!

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



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.



WARNING!

Holder B must fit flush against the blade with the splines engaged to the output shaft.

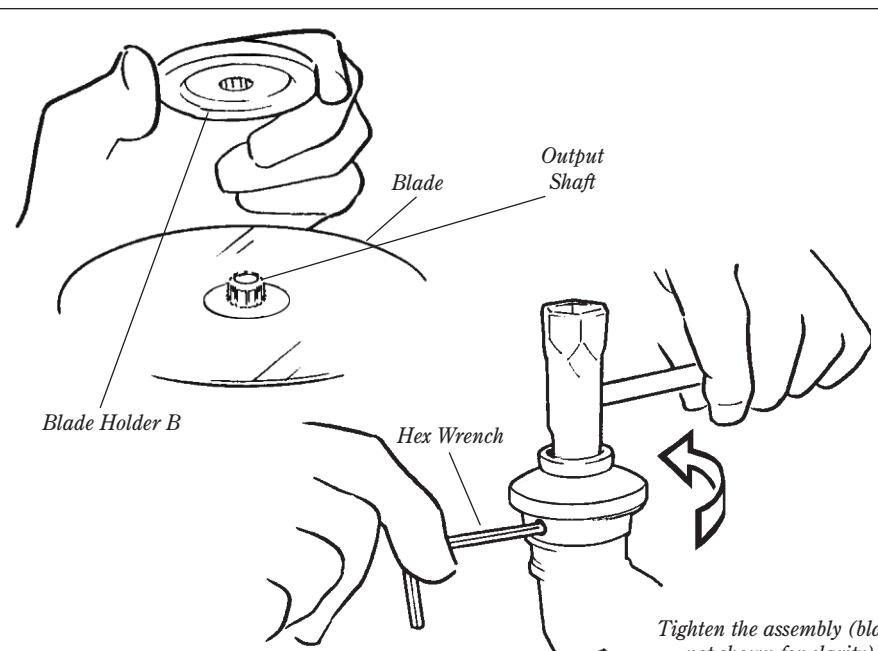


Figure 13

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 2-cycle 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.

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!

- STOP engine before refueling.
- ALWAYS allow the engine to cool before refueling!
- Wipe all spilled fuel and move the engine at least 10 feet (3 meters) from the fueling point and source before restarting!
- NEVER start or operate this unit if there is a fuel leak.

- NEVER start or operate this unit if the carburetor, fuel lines, fuel tank and/or fuel tank cap are damaged.
- NEVER smoke or light any fires near the engine or fuel source!
- NEVER place any flammable material near the engine muffler!
- NEVER operate the engine without the muffler and spark arrester in good working condition.

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.

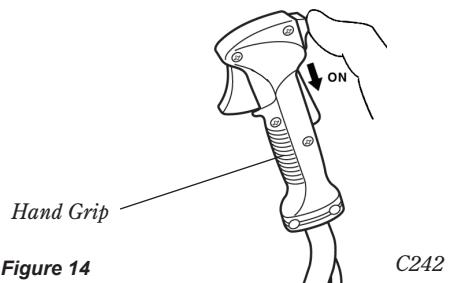
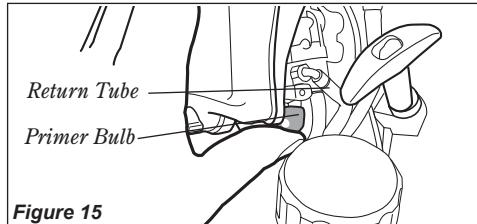


Figure 14

1. Slide the ignition switch to the "ON" position. See Figure 14.



2. 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.

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

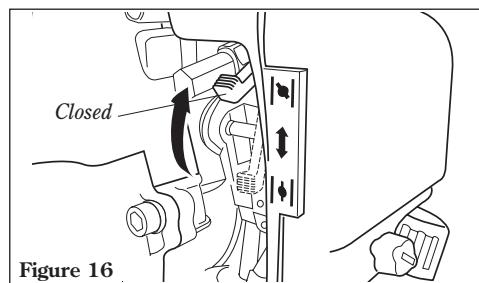


Figure 16

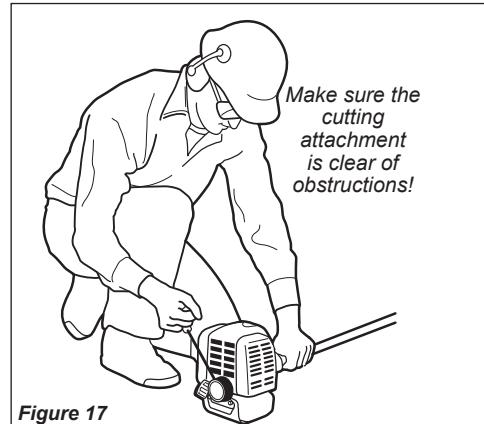


Figure 17

4. 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 18. (If the engine stops after the initial start, close the choke and restart.)



WARNING!

Never start the engine from the operating position.

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.

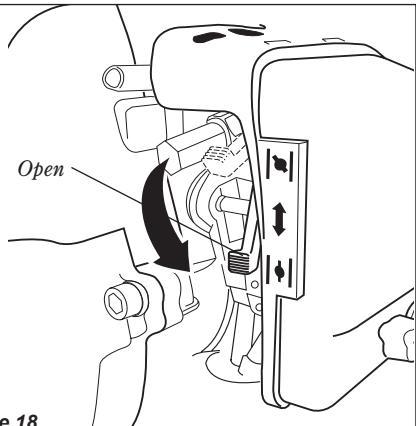
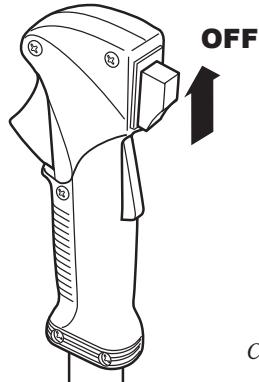


Figure 18

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



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

Figure 19

Adjusting Engine Idle

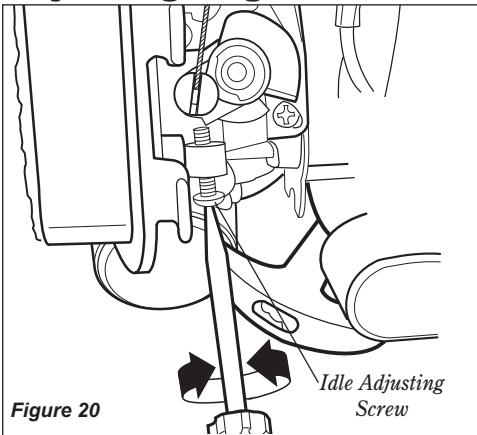


Figure 20

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 20.
- If a tachometer is available, the engine idle speed should be final adjusted to 3,000 (± 250) 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 C242

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 21

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 22.

Trimming and Mowing Grass

RETURN PATH → CUTTING PATH

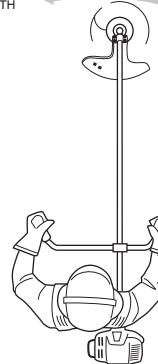


Figure 22

Edging

Tilt the handle about 100° to the left (from horizontal) and move forward, holding the trimmer vertically as shown in Figure 23.



Figure 23

Using a Blade C242



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 C242 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.

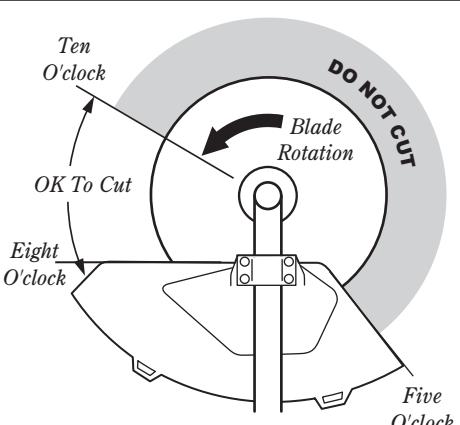


Figure 24

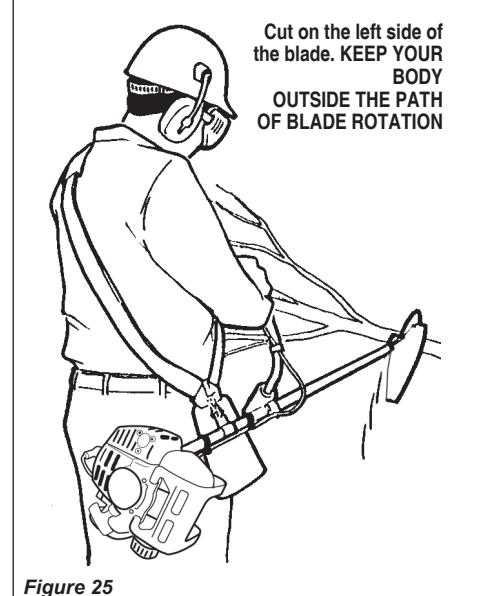


Figure 25

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.

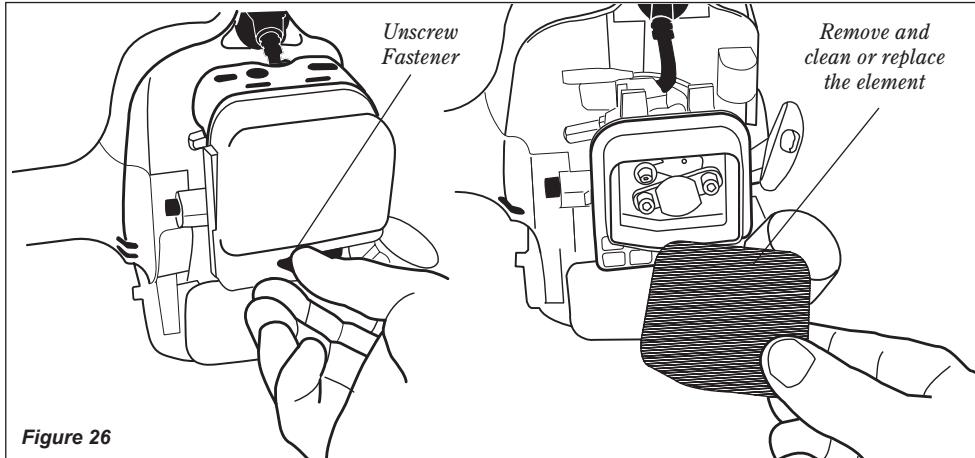
■ Blades are **not** interchangeable between Shindaiwa edgers and trimmer/brushcutter models. Operating any unit with a blade or attachment not approved for that unit can be hazardous and may cause serious injury.

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



Every 10 hours of operation (more frequently in dusty or dirty conditions):

Remove the air cleaner element. See Figure 26. Clean or replace as necessary. To clean element: wash it thoroughly in soap and water. Let it dry before reinstalling the element.

CAUTION!

Do not operate the unit if the air cleaner or element is damaged, or if the element is wet.

10/15-Hour Maintenance

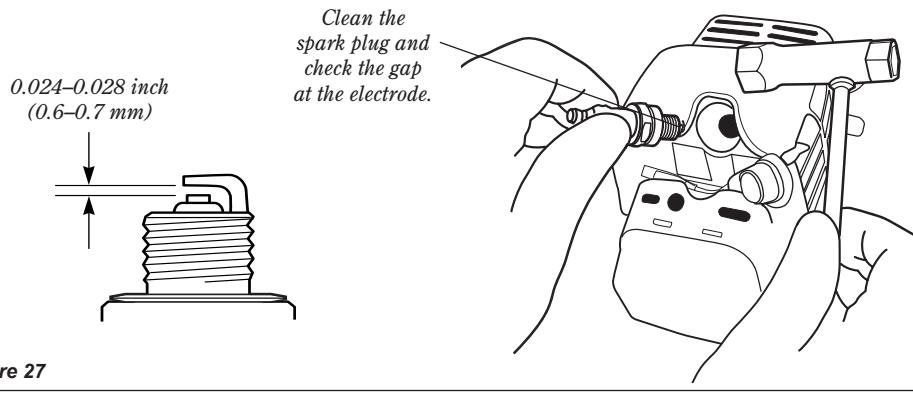


Figure 27

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 BPMR6A or equivalent resistor type spark plug of the correct heat range. See Figure 27.

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 28.
- Lubricate main shaft splines.
- Use a hooked wire to extract the fuel filter from inside the fuel tank. See Figure 29.

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.

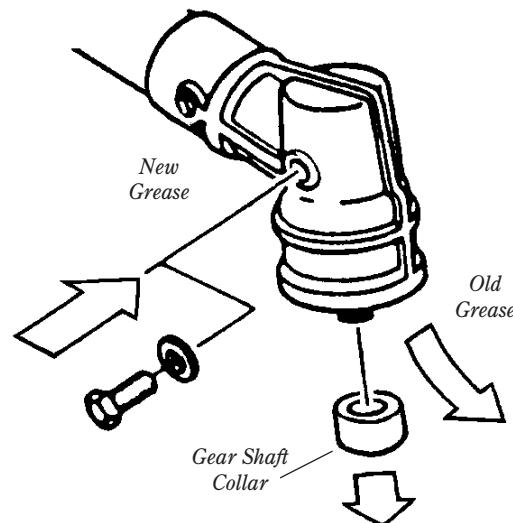


Figure 28

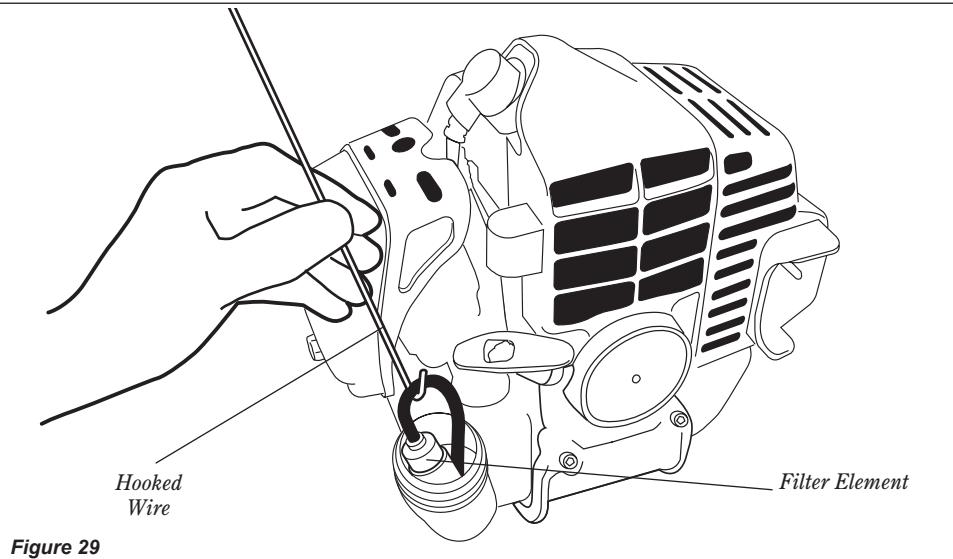


Figure 29

135-hour Maintenance

Every 135 hours of operation,
remove and clean the muffler.

WARNING!

Never operate this trimmer
with a damaged or missing muffler or
spark arrester! Operating with missing
or damaged exhaust components is
a fire hazard, and can also damage
your hearing!

1. Remove the spark plug boot.
2. With a 3 mm hex wrench remove the 1 muffler cover and 3 engine cover screws and the engine cover. See Figure 30.
3. With a Phillips type screwdriver remove the 5 screws holding the spark arrester screen and cover to the muffler. See Figure 30.
4. Remove the screen and clean it with a stiff bristle brush.
5. With a 4 mm hex wrench remove the 3 muffler bolts and the muffler.
See Figure 30.
6. Inspect the cylinder exhaust port for any carbon buildup.
7. Gently tap the muffler on a wood surface to dislodge any loose carbon.

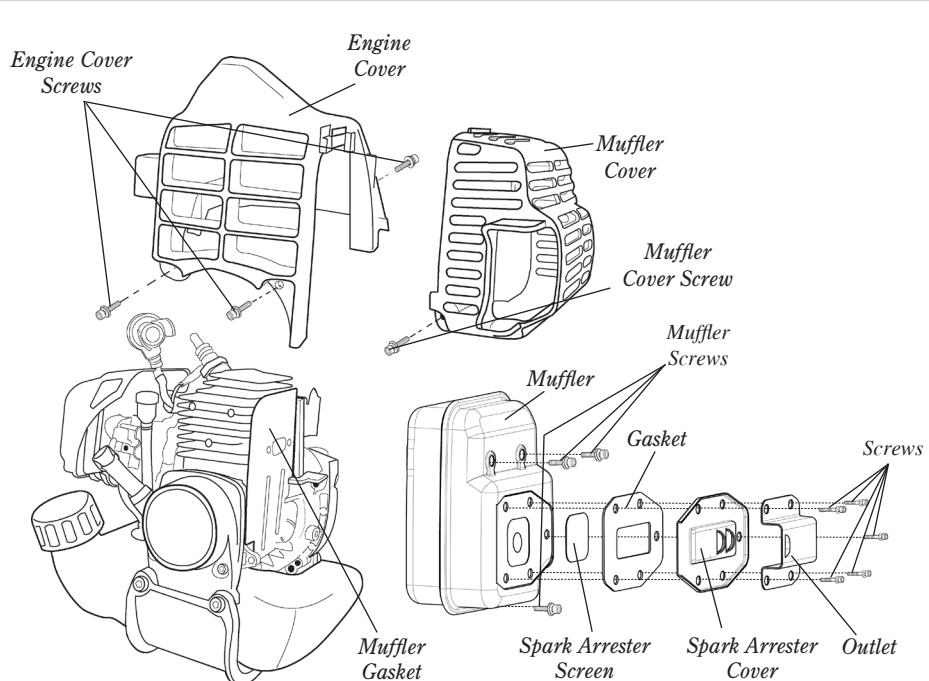


Figure 30

IMPORTANT!

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

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

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°.

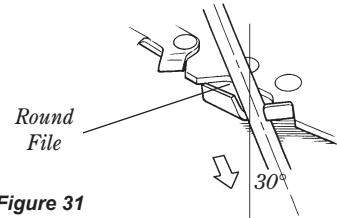


Figure 31



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.

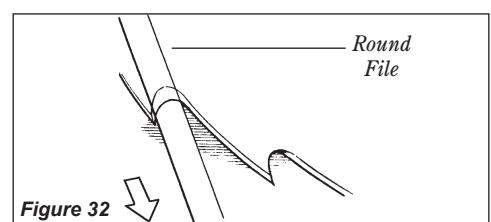


Figure 32

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.	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 "I" (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 BPMR6A 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.	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.
Engine is knocking.	Overheating condition. Improper fuel. Carbon deposits in the combustion chamber.	See above (Engine overheating). Check fuel octane rating; check for presence of alcohol in the fuel (page 10). Refuel as necessary. Consult with an authorized servicing dealer.

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 (± 250) 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 BPMR6A or equivalent resistor type spark plug of the correct range. Idle engine until cool.
Cutting attachment rotates at idle.	Engine idle too high. Broken clutch spring or worn clutch spring boss. Loose attachment holder.	Set Idle: 3,000 (± 250) 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 (± 250) 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

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(503) 692-3070

shindaiwa

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Part Number 81644
Revision 1/07

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Numero 81644
Revision 1/07

(503) 692-3070
Tualatin OR 97062
11975 S.W. Herman Rd.
Shimadawa Inc.

ESTA GARANTIA ES ADMINISTRADA POR:

8:00 a.m. a 5:00 p.m., hora del Pacifico.

Shindaiwa Corporation.
Para localizar a un agente de servicio Shindaiwa más cercano a usted, favor de ponerse en contacto con su distribuidor Shindaiwa. Para obtener el número y el número telefónico del distribuidor de Shindaiwa en su localidad, comuníquese con Shindaiwa Inc., 11 (503) 692-3070 de

Sí cumpliría la meta marcada con las emisiones es encontrada efectuosa durante el periodo de garantía, es su responsabilidad presentar el producto a un distribuidor autorizado de Shindaiwa. Presente sus compras anteriores de venta en los que aparezca la fecha de compra del motor. El distribuidor autorizado de Shindaiwa Corporation llevará a cabo las reparaciones o ajustes necesarios en un plazo razonable, suministrándole una copia de dicha orden de reparación. Todas las piezas y accesorios reemplazados bajo esta garantía pasarán a ser propiedad de Shindaiwa Corporation.

Toda preparación realizada conforme a los términos de esta garantía limitada debe ser llevada a cabo por un distribuidor autorizado por Shimadzu.

SOLICITUDES DE SERVICIO DE GARANTÍA

Si se utilizan piezas no autorizadas por Shindaiwa Corporation para reemplazaros se debra asegurar que dichas piezas estén garantizadas por el fabricante como equivalentes a las piezas autorizadas por Shindaiwa Corporation en lo relativo al rendimiento y durabilidad.

de manejo de los recursos naturales y la conservación del medio ambiente. La estrategia para el desarrollo sostenible se basa en la promoción de la sostenibilidad ambiental, social y económica, así como en la protección y conservación de los recursos naturales y la biodiversidad.

Usted es responsable de los mantenimientos correctos del motor. Usted debe garantizar la regularidad y eficiencia de los sistemas de refrigeración, combustible y lubricación. Los sistemas de refrigeración y lubricación deben ser revisados y limpiados regularmente para evitar el desgaste prematuro de las piezas. Los sistemas de combustible deben ser revisados para asegurarse de que el combustible es de calidad adecuada y que el sistema de inyección o bomba de combustible no tiene fugas ni obstrucciones. Los sistemas de refrigeración deben ser revisados para asegurarse de que el agua de enfriamiento es limpia y sin impurezas que puedan dañar el motor. Los sistemas de lubricación deben ser revisados para asegurarse de que el aceite es de calidad adecuada y que el sistema de lubricación no tiene fugas ni obstrucciones. Los sistemas de combustible deben ser revisados para asegurarse de que el combustible es de calidad adecuada y que el sistema de inyección o bomba de combustible no tiene fugas ni obstrucciones.

REQUISITOS DE MANTENIMIENTO Y PREPARACION

(e) Todo repuesto no autorizado o la falta de partes autorizadas que pudieren debierese al uso de partes no autorizadas.

(d) Cuotas de diagnóstico e inspección que no resulten en servicios cubiertos por redondos,

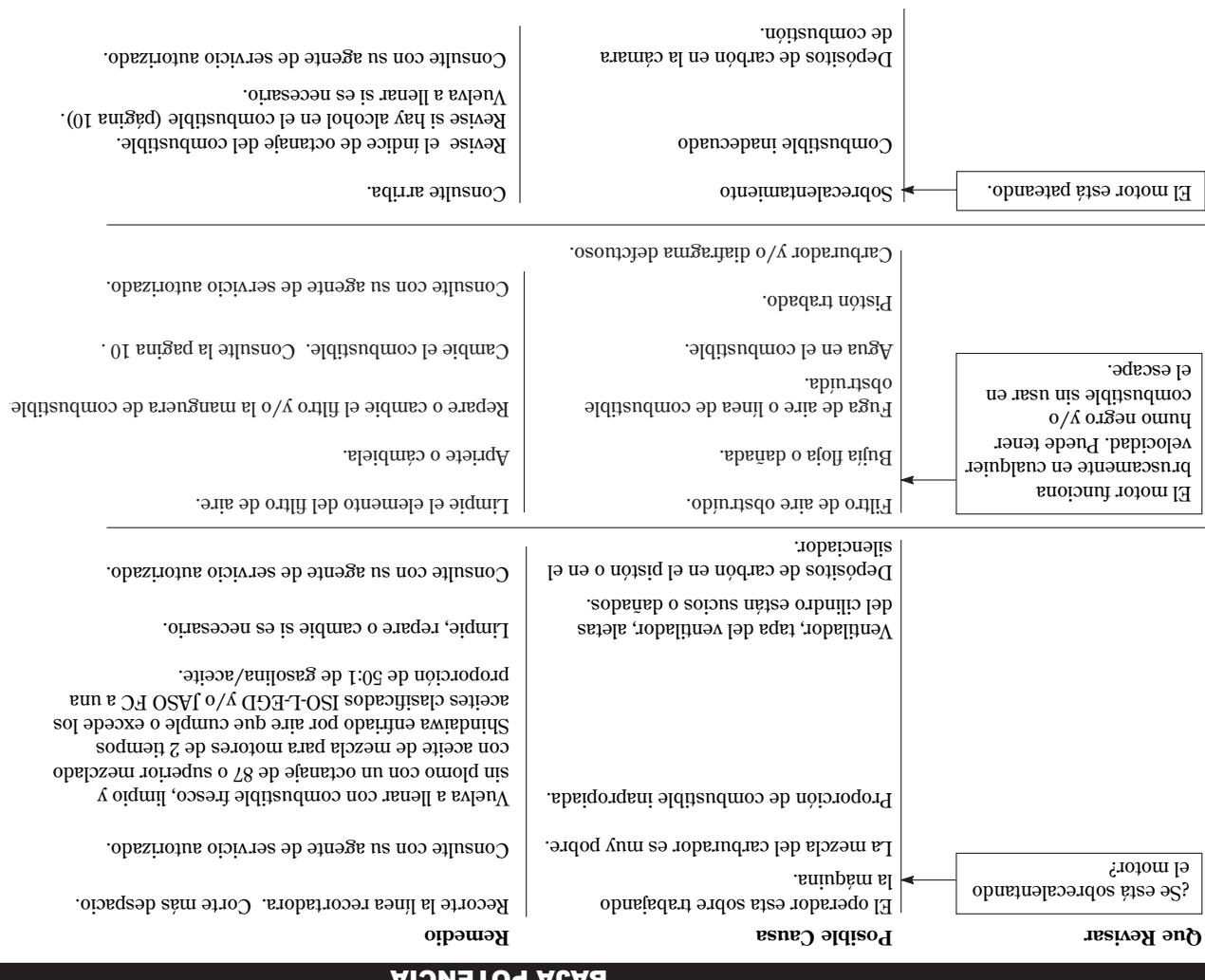
(c) Partes consecutivas utilizadas para efectuar los servicios de mantenimiento redondos,

(b) Los repuestos usados para los servicios de mantenimiento redondos,

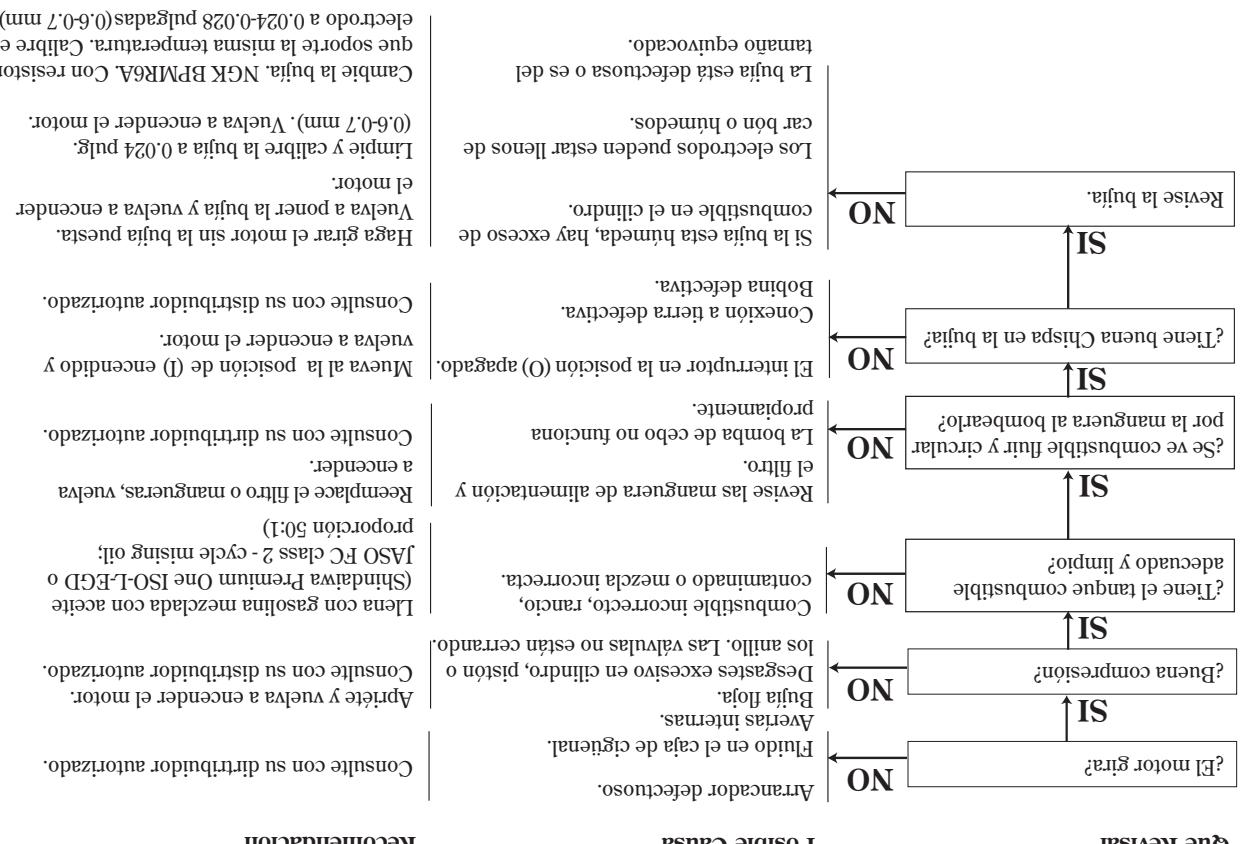
(a) La garantía.

Garantía limitada de defectos y diseño de emisiones federales

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BAJA POTENCIAS



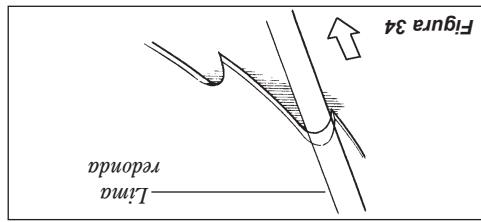


Figura 34

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.

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.

Almacené la máquina en un sitio limpio y libre de polvo.

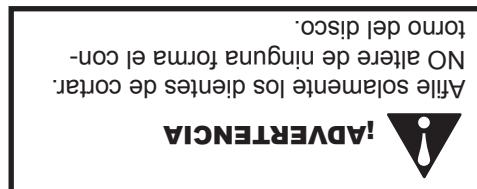
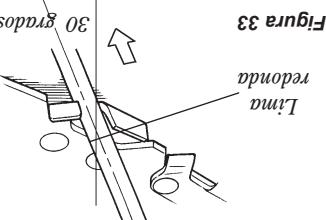
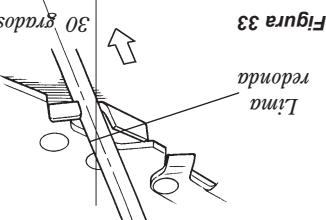
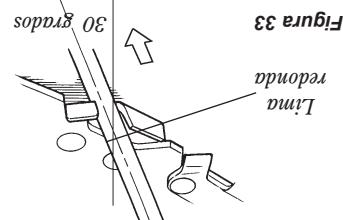


Figura 33



Almacenamiento

■ Retirar la máquina y volverla a preparar o combinar la máquina, repare o gastada.

■ Antes de almacenar la máquina, retire el resto del combustible y carburador.

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

■ Retire el resto del combustible en el interior del motor.

■ Limpiar todo combustible en el tanque.

■ Limpie las partes externas y aplique una capa ligera de aceite a todas las superficies metálicas.

■ Limpie las partes externas y aplique una almacenanamiento.

Almacenamiento de Largo Plazo

■ Retirar la máquina y volverla a preparar o combinar la máquina en el carburador por períodos largos puede causar daños permanentes si se aplica en exceso para el arranque de 2 ó 3 veces.

■ Gasolina almacenada en el carburador por períodos largos puede condensar en un arranque duro y puede condensar en el cilindro a través del agujero de la bujía.

■ Motorres de 2 tiempos en el cilindro a través del agujero de la bujía.

■ 1/4 de onza de aceite de proximadamente usada por 30 días o más, si se los siguen las procedimientos para preparar su almacenamiento.

PRECAUCIONES

■ Cada vez que la máquina no va a ser almacenada en el carburador.

■ Limpie las partes externas y aplique una capa ligera de aceite a todas las superficies metálicas.

■ Limpie las partes externas y aplique una a un aumento en costo de servicio.

■ Una arandela dura y gruesa condicione a un arranque duro y puede condensar en el cilindro a través del agujero de la bujía.

■ Mantenga el aceite se aplicue en el interior del motor.

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

■ Retire el resto del combustible en el interior del motor.

■ Todo combustible almacenado debe estar estabilizado con un estabilizador de combustible tal como STA-BIL™, al menos de uso aceptable.

■ Cuando los bordes de la cuchilla pierden balanceada, todos los bordes deben ser afilados uniformemente.

Afilado de Discos

Disco Shindaiwa Tornado™

Para afilar los dientes de corto de una lima circular al de una hoja de sierra similar de cada diente hasta obtener un filo redondo shindaiwa Tornado™, use una lima circular superior de 30 grados. Consulte la figura 33.

Una micromaceta de 30 grados. Consulte la hoja superior de cada diente debe tener una micromaceta de 30 grados. Consulte la figura 33.

Almacenamiento

■ Para mantener la cuchilla con estabilizadora de combustible almacenada en el estabilizador de combustible.

■ Consulte la figura 33.

Cada 135 horas Mantenimiento

Cada 135 horas de operación, retire y limpie el silenciador.

Nunca opere la máquina con un silenciador o guardachispas dañado o faltante! De lo contrario, puede ser un riesgo de incendio y podría también causar daños a sus oídos.

ADVERTENCIA!

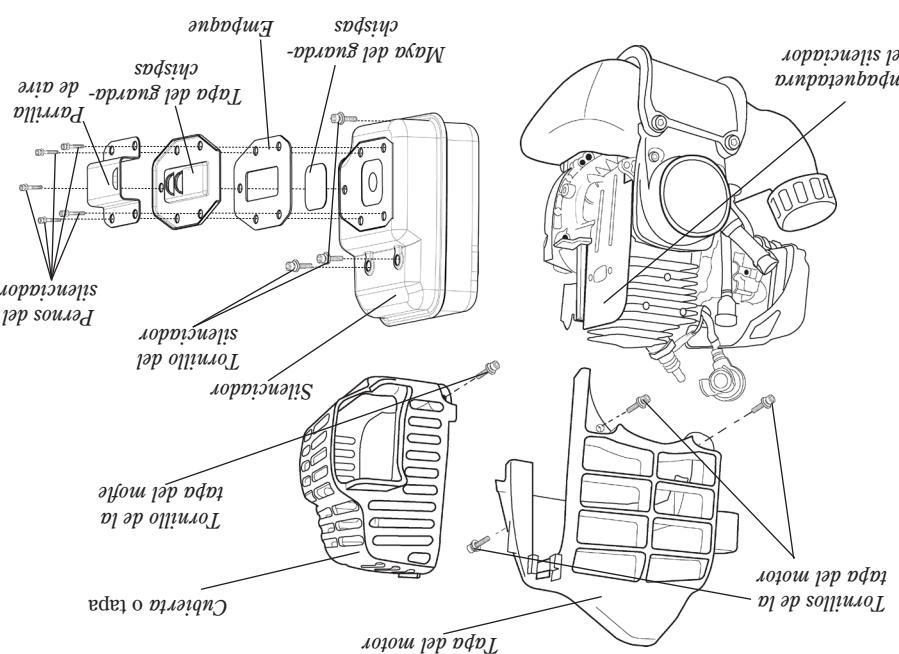


Figura 30

IMPORANTE!

- Retire el capuchón de bujía.
- Con una llave hexagonal de 3 mm retire la cubierta del motor y los tres tornillos de la tapa del motor y la tapa del motor. Consulte la figura 30.
- Con un destornillador de cruz retire la cubierta del motor y los tres tornillos que sostienen la tapa del motor. Consulte la figura 30.
- Retire la maya y limpie con un cepillo de cerdas gruesas.
- Con una llave hexagonal de 3 mm retire los pernos del silenciador y el silenciador. Consulte la figura 30.
- Inspeccione el escape del cilindro en busca de acumulación de carbono.
- Suavemente golpee el silenciador sobre una superficie de madera para deshacerse de cualquier carbono suelto.

- Revise la tapa del motor en forma inversa al orden de desembague.
- Vuelva a ensamblar el guardachispas, el silenciador y la tapa del motor en forma inversa con su centro de servicio de carbono, consulte con el distribuidor sobre bujías autorizadas Shindaiwa.

ADVERTENCIA!

- Retire el capuchón de bujía.
- Con una llave hexagonal de 3 mm retire la tapa del motor y la tapa del motor. Consulte la figura 30.
- Con un destornillador de cruz retire la cubierta del motor y los tres tornillos que sostienen la tapa del motor. Consulte la figura 30.
- Retire la maya y limpie con un cepillo de cerdas gruesas.
- Con una llave hexagonal de 3 mm retire los pernos del silenciador y el silenciador. Consulte la figura 30.
- Inspeccione el escape del cilindro en busca de acumulación de carbono.
- Suavemente golpee el silenciador sobre una superficie de madera para deshacerse de cualquier carbono suelto.

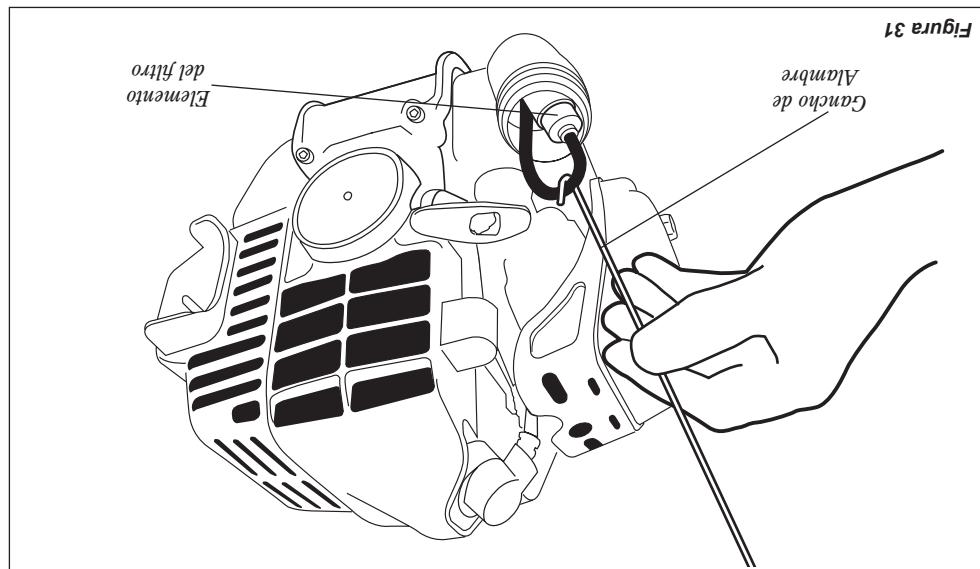


Figura 31

Repite el elemento del filtro. Añete de remontar el filtro, inspecione la condición de todo los componentes del sistema de combustible (manguera de alimentación, manguera del ventilador, ventilador, tapa y tanque). Si descubre daños, quebraduras o deterioración, retire la unidad de operación hasta que pueda ser inspeccionada o preparada por un técnico de servicio en Hernando por Shimbawwa.

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

!PRECAUCIÓN!

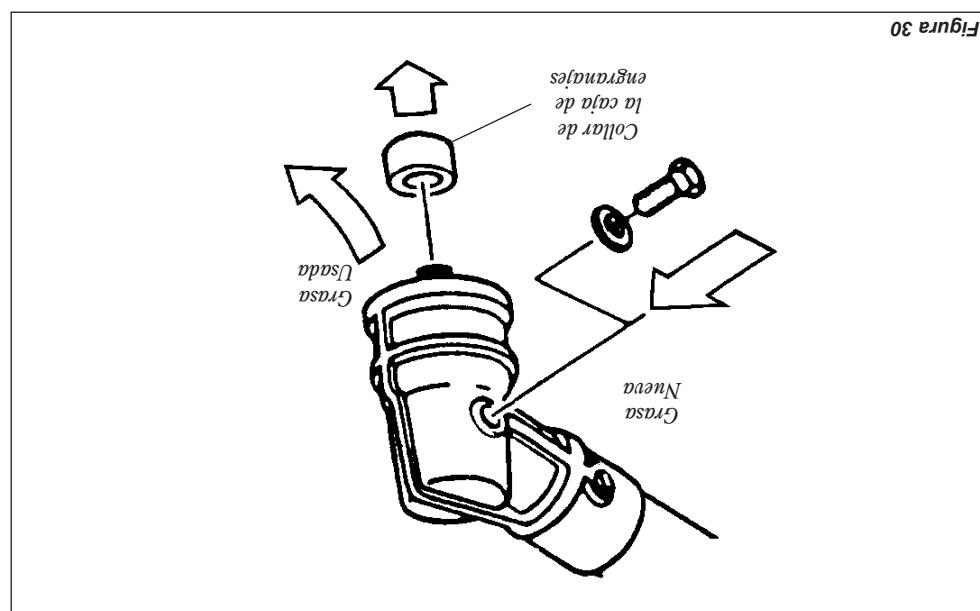


Figura 30

- Retirar el accesorio de corte, el soporte del accesorio de collar de la caja de engranajes. Retirar la tuerca del almenadur del costado de la caja de engranajes. Retirar la base de la caja hasta que la grasa nueva en la caja se introduzca dentro de la caja.
- Use solamente grasa a base de litio, tal como grasa Shimadwa para Caja de engranajes o su equivalente. Consulte la figura 30.
- Lubrifique las estriadas del eje principal. Use un gamcho de alambre para extraer el filtro de combustible del tanque de combustible. Consulte la figura 31.

Cada 50 horas de operación
(más frecuentemente
bajo condiciones suculas o
polvorrientas):

Mantenimiento Cada 50 Horas

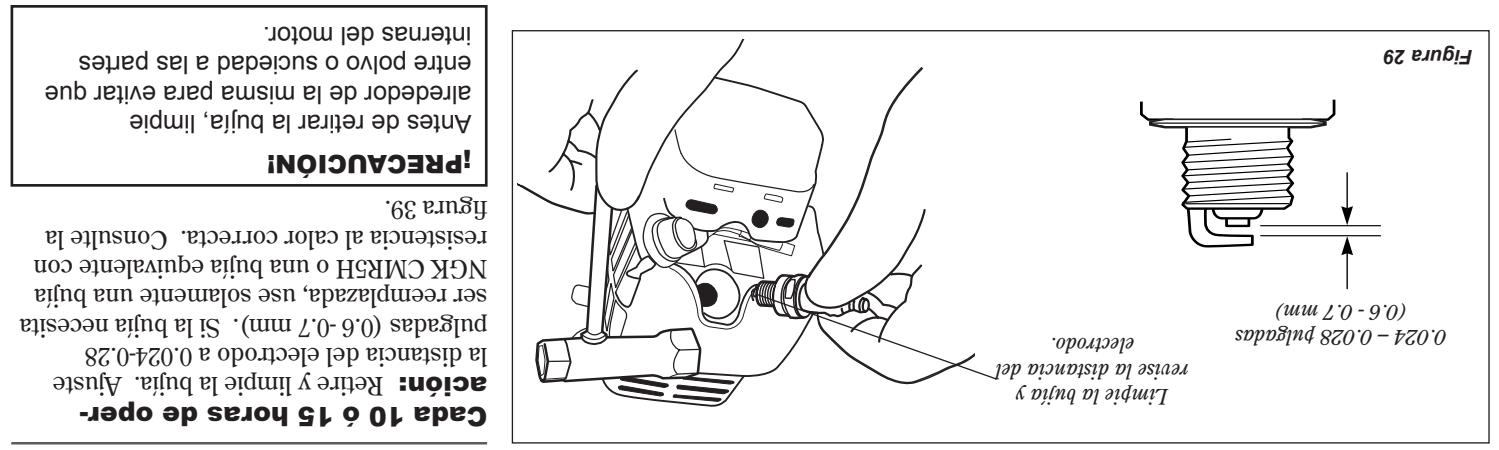


Figura 29

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

Operación: Retire y limpie la batería. Ajuste la distancia del electrodo a 0,024-0,28 pulgadas (0,6-0,7 mm). Si la batería necesita ser reemplazada, use solamente una batería NGK CMR5H o una batería equivalente con resistencia cal calor correcta. Consulte la figura 39.

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

Operación: Retire y limpie la batería. Ajuste la distancia del electrodo a 0,024-0,28 pulgadas (0,6-0,7 mm). Si la batería necesita ser reemplazada, use solamente una batería NGK CMR5H o una batería equivalente con resistencia cal calor correcta. Consulte la figura 39.

PRECAUCIÓN: Cadaa 10 horas de operación (más frecuentemente bajo condiciones de elemento polvoriento): Retirar el elemento del filtro de aire. Consulte la figura 29. Limpiar completamente el elemento como sea necesario. Para la reemplazo de remontarla. Deje que seque antes de reinstalarlo.

- **Revisa que no falten tornillos y que no estén flojos. Cerraduras de que el accesoario de correte este firmemente asegurado.**

■ **Revisa la máquina entera en busca de goteo de combustible o grasa.**

Mantenimiento Cada 10 Horas

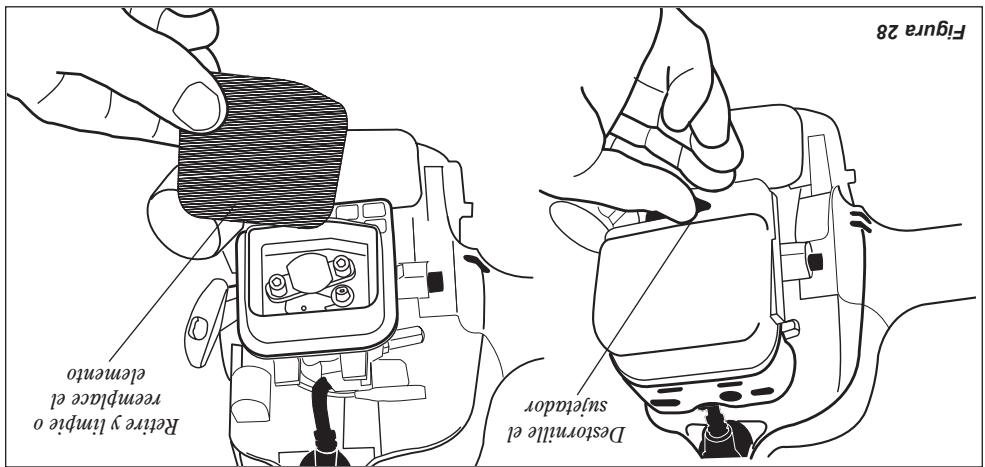


Figura 28

Mantenimiento Diario

- Recibir toda sueldo y despojo del m-
 - efectuar lo siguiente:
 - tor, revisar las saletas de enlatamiento y el filtro de aire y limpiarlos de ser-
 - necesario.

Los discos de corte no son inertes cambiables entre las bordadoras o desmalaizadoras. El uso de cuadriguiera unidada con discos o accesorios no aprobados para la respecitiva unidad pueden ser peligrosos y ocasionar lesiones graves.



Cerciorarse de que las tareas, permisos y torneos (excepto de los torneos de ajedrez del carburador) estén apretados.

Sujetadores

Mantenga la búsula y las conexiones de cable

audição.

es este bien asegurado y en buena condición.

Las unidades tienen que ser operadas con un guardachispas o silenciodor de efectos so latente. Cereciorse de que el silenciodor

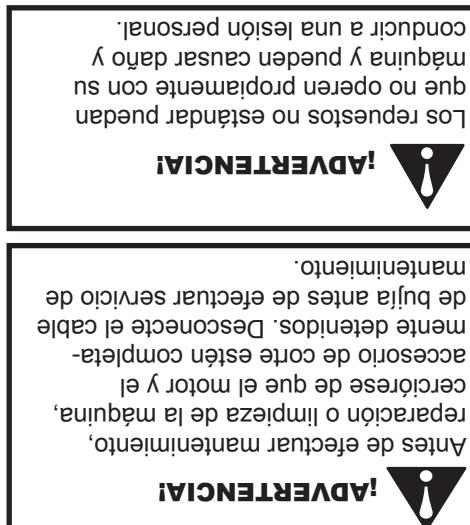
Silenciador

El usuario requiere acceso al estandar podria invalidar su garantia Shindaiwa.

NOTA:

NOTA:

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Cuchillas Mantenga los discos limpios y revise la condición del disco frecuentemente. Si el reñido es demasiado fuerte, cambie la repentina mente, pare el motor y revise el disco en busca de raspaduras o otro daño. Reemplace el disco dañado INMEDIATAMENTE.

!IMPORATANTE!

Mantenermeñto, REEMPLAZO DE MANTENIMIENTO, O REPARACION DE LOS SISTEMAS Y DISPOSITIVOS DE CONTROL DE EMISION PUEDEN SER EFECTUADOS POR CUALQUIER ESTABLECIMIENTO O INDIVIDUO; SIN EMBARGO, LAS REPARACIONES DE GARANTIA DEBEN SER EFECTUADAS POR SU CENTRO TECNICO POR SHINDAIWA CORPO. RACION EL USO DE PARTES QUE NO SON EQUIVALENTES EN RENDIMIENTO Y DURABILIDAD ALAS PARTES AUTORIZADAS PUEDEN AFECTAR LA EFECTIVIDAD DE SU SISTEMA DE CONTROL DE EMISION Y PUEDE INFUNCIAR EL RESULTADO DE SU RECLAMO DE GARANTIA.

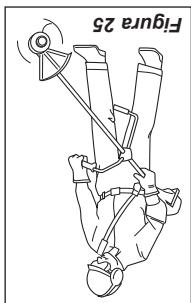
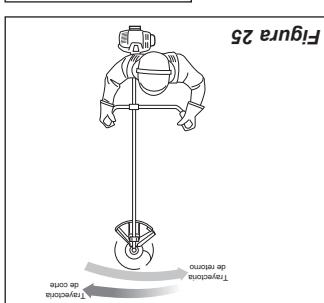


Figura 25



czarina

Recorede y
Podado de
Cesped
y fijatura 24.
el cabezal hon-
del cable. Con
nylon, corre se
Para obtener
cabezal este e
sosoleñaga a p
cabezal este e

Corte de Cesped - Maquinaria Equipadas con Cabezal de Corre

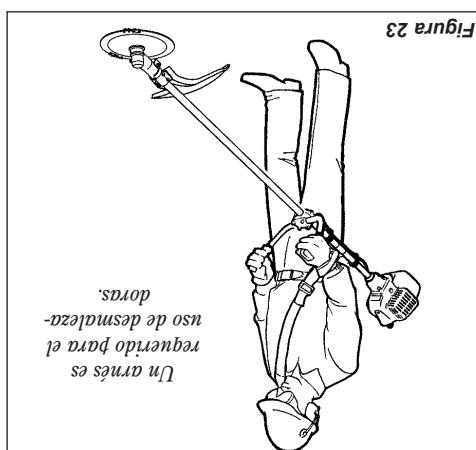


Figura 23

*Uñ arraes es
requerido para el
uso de desmaleza-
doras.*

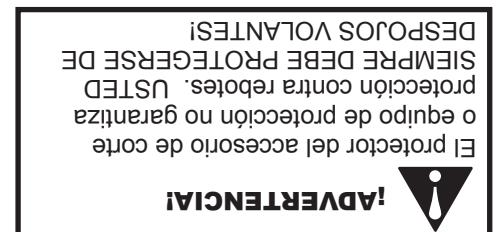
- **SIMPRE** paré el motor immediatamente y revisé en busca de daños si golpea un objeto extraño o si la unidad se enciende. No opere con equipo dañado o quebrado.
- **NUNCA** permita que el motor funcione a altas revoluciones sin cargar. De lo contrario, podría dañar el motor.
- **NUNCA** use la máquina con sujetadores o soportes de accesoarios desgastados o dañados.

SISTEMAS crecientes de que el cabezal un cabezal propiamente instalado vibra, encaje propiamente dentro del soporte. Si se empalceo por uno nuevo y puro.

NUNCA use un accesostrío de corte rajado o doblado, reemplácelo con uno útil.

SISTEMPRE certiorrese de que el acceso de Shmidaiwa, Inc. da unida sim la probacion escrita de

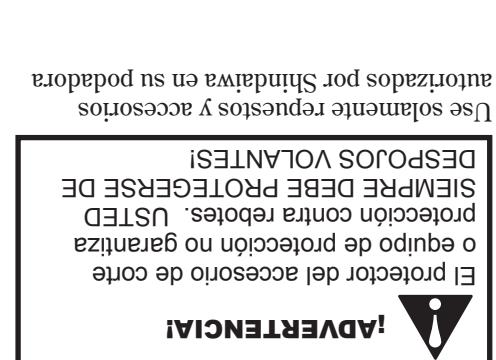
Use solamente repuestos y accesorios autorizados por Shimadawa en su podadura



!ADVERTENCIAS

equipo de protección.

Correa de Hombro C242



!ADVERTENCIAS

Protector del accesorio de corte o sím
equipo de protección.

Verifique la Condición de la Unidad

1. Coloque la podadora en el suelo, luego encienda el motor y desejoélo funcionalmente hasta que callene.
2. Si el accesorio de cortar gira mientras el motor está en marcha minima, reduzca el motor de acuerdo con la figura 22.
3. Si tiene un tacómetro disponible, la marcha mínima se debe ajustar a 3,000 RPM (± 250) RPM (mín.).
4. Los ajustes de mezcla de carburo de acero combinados en el campo.

!ADVERTENCIA!

El motor debe retornar a marcha mínima cuando la palanca del acelerador es liberada. La marcha mínima es ajustable y debe ser suficientemente mínima para permitir que el embrague del motor libre el accesorio de corte.

Ajuste de Marcha Mínima

!ADVERTENCIA!

El accesorio de corte NUNCA debe girar en marcha mínima! Si la marcha mínima no pude ser ajustada por el procedimiento descrito aquí, entonces devuelva la podadora a su distribuidor Shindaiwa para inspección.

Ajuste de Marcha Mínima del Motor

Proonga el motor en marcha mínima por dos o tres minutos antes de apagarlo, luego deslice el interruptor de ignición a la posición “O” (motor apagado).

Parada del Motor

Si el motor falla en arrancar después de variros intentos con la palanca del cebador en posicíon cerrada, pude que el motor esté ahogado con combustible. Si esto se repite al arrancarlo regularmente, es que la suspensión del cebador no está bien ajustada. Si la palanca del cebador se mueve la bomba de combustible y la bomba de aceite, es que el motor tiene exceso de combustible y para arrancar el motor, si aun falla en arrancar el motor, consultar el guia diagnostico de este manual.

IMPORTANTE

- Cuando arranca el motor...
- Después de que arranque el motor,
- Permita que caliente en marcha minima
- Por 2 ó 3 minutos antes de usar la
- maquina.

Cuando arranca el motor...

Nunca arranque el motor desde la posición de operación.

ADVERTENCIA

5. Cuando arranque el motor, muéva despacio la palanca del cebador a la posición "OPEN" (aberto). Consulte la figura 16. Si el motor para después del arranque inicial, retire la palanca del cebador y vuélvala arrancar).

Arranque del Motor (continuacin)

!PRECAUCIÓN!

No jale el arrancador recular hasta el final de la curva. De lo contrario, puede dañar el arrancador.



Figura 19

Cerraduras de que el
accesorio de corte este
ibre de obstrucciones!

!IMPORTANTE!

!IMPORATANTE!

- 3. Posicione la palanca del cebador en la posición CLOSING (cerrado) si el motor está frío.
- 4. La bomba de cebados solamente empuja combustible a través del carburador. Presioneando repetidamente la bombilla de cebadora no ahogará el motor con combustible.

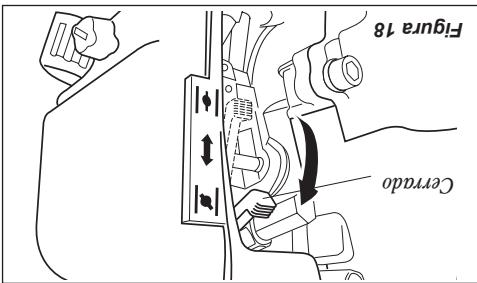


Figura 18

El encendido del motor está controlado por un interruptor de dos posiciones montado en el mango del acelerador indicado "I".

!IMPORTANTE!

Arranque del Motor

11. Posicione la madera sobre una superficie plana y nivelada.

12. Retire cualquier suciedad o despojos alrededor de la tapa de combusible.

13. Retire la tapa de combusible y lleve el tanque con combustible fresco y limpio.

A. Reinstale la tapa de combustible y apriete firmemente.

El Acetile Shmidaiwa ONE es un acetile regis-
trado de JASO FC Clasificando y tambien cumple
los requisitos de rendimiento de ISO-
T-FCD. Shmidaiwa One es recomendado para
el uso en todo los motores Shmidaiwa de baja
emision. Shmidaiwa One tambien incluye el
estabilizador de combustible.

IMPORANTE

- Ejemplos de cantidades de mezcla a
proporción de 50:1
- 1 galón de gasolina por 2.6 onzas de
aceite de mezclar.
- 5 litros de gasolina por 100 ml de aceite
de mezclar.

Ejemplos de cantidades de mezcla a

- Nunca encienda u opere esta máquina si el carburador, líneas de combustible y/o tapa de tanque o tanque de combustible se encuentran dañados.
- Nunca fume o encienda fuegos cerca del motor o del combustible.
- Nunca coloque material inflamable cerca del silenciador del motor.
- Nunca opere el motor sin antes comprue
bar que el silenciador y el guardachispas

Llenando el Tanque de Combustible

Use solamente gasolina fresca, limpia y sin plomo, con índice de octanaje de 87 o superior. Mezcle todo el combustible con aceite de mezclar para motores de 2 tiempos en fríos por aire que cumpla o exceda aceites clasifi- cados ISO-L-ECD y/o JASO FC a proporción de 50:1 gasolina/aceite.

PRECAUCION!
Este motor essta diseñado solamente para funcionar con una mezcla de 50:1 de gasolina sin plomo y aceite de mezclar para motores de 2 tiempos. ISO-L-EGD o JASO FC. El uso de aceites de mezclar no autorizados puede condicir a excesos de depositos de carbono.

PRECAUCIÓN!

!PRECAUCIÓN!

Algunas gasolinas contiene alcohol como un oxigenante. Combustibles oxigenados puden aumentar la temperatura del motor durante sufuncionamiento. Bajo ciertas condiciones, combustible con alcohol puede reducir la calidad lubricante de algunos aceites de mezcla. Nunca use ningun combusible que contenga más de 10% de alcohol por volumen! Acetites genéricos y algunos aceites para motores fuera de borda pueden que no sean para el uso en motores de los ciclos de alto rendimiento, y no deben ser usados en su motor Shindaiwa!

Mezcla de Combustible

61

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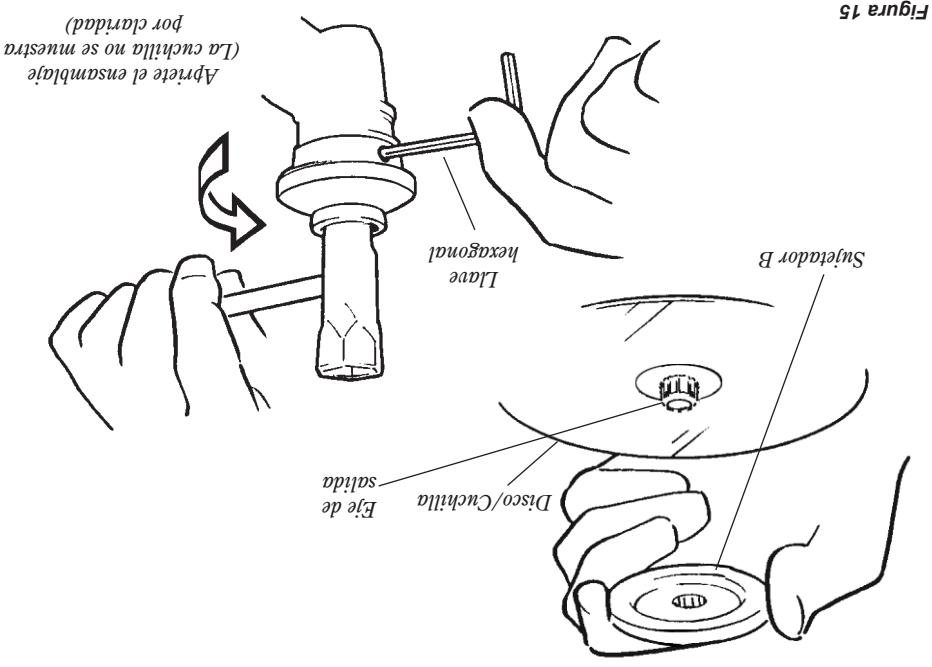


Figura 15

- Instalar la Cuchilla.**
- Ponga la C242 debajo de la Caja de engranajes, de tal forma que el perno del eje de la Caja de engranajes esté cerca arriba y el soporte B esté cerca abajo.
 - Alinee la muesca en el Soporte A con la muesca correspondiente en el borde de la caja de engranajes. Consulte la Figura 12.
 - Instale el sujetador B en el eje de salida. Consulte la Figura 15. El reborde en el sujetador B debe robarse el reten de ambos sujetadores debajo del disco. Completeamente el reten de seguridad, y debe completamente el soporte debajo cubrir completamente el perno de retención de la cuchilla.
 - Instale el protector de perno y luego apretelo con la llave hexagonal. Usando la llave de bujía/desatornillador combinado, apriete el perno firmemente en dirección contraria a las agujas del reloj. El soporte B debe quedar alineado con la cuchilla.
 - Retire la llave hexagonal.

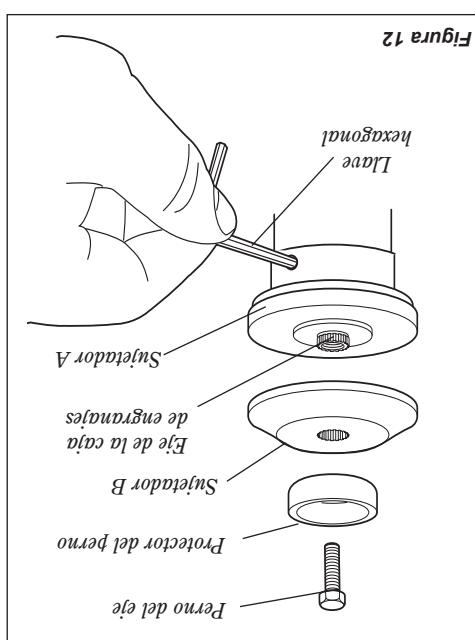
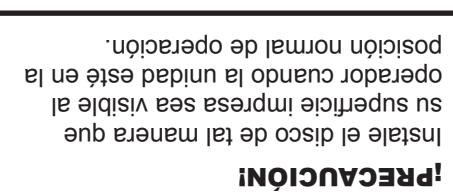
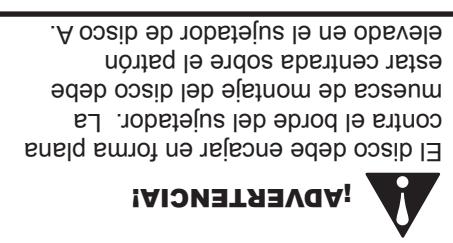
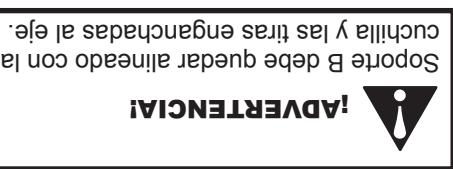


Figura 12

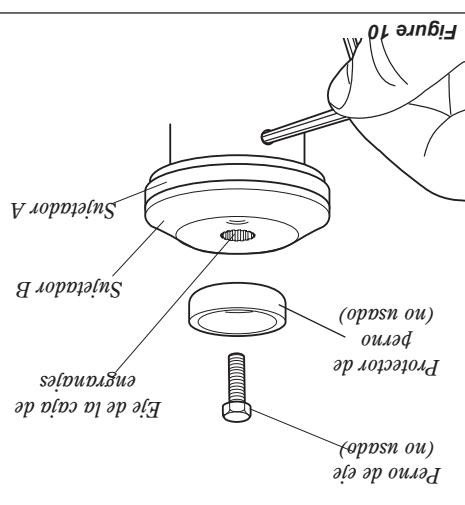
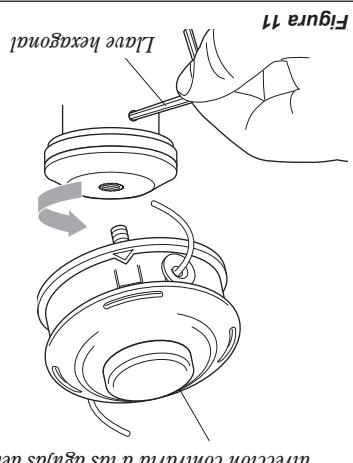
- IMPORATANTE!**
- Alinee la muesca en el Soporte A con la muesca de la caja de engranajes y luego coloque el borde del Soporte A. Consulte la Figura 14.
 - Encuje la cuchilla sobre el reten de la cuchilla. Consulte la Figura 12.
 - Completeamente el reten de seguridad, y debe robarse el reten de la cuchilla sobre la superficie del disco. Consulte la Figura 15.
 - Instale el sujetador B en el eje de salida. Consulte la Figura 15. El reborde en el sujetador B debe robarse el reten de ambos sujetadores debajo del disco.
 - Retire la llave hexagonal a las agujas del reloj. El soporte B debe quedar alineado con la cuchilla.
 - Retire la llave hexagonal.



Instalando la Cuchilla

Instalación del Cabezal de Nylon

La C242 debe estar ahora completamente ensamblada para ser operada como podador o desmalezadora



NOTA:

1. Con el eje de sellado de la caja de roscas izquierda. Girar hacia las agujas del reloj para retiarlo.

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

3. Usando la llave hexagonal para asegurar la caja de engranajes con la muñeca en la caja de engranajes. Consulte la figura 11.

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

NOTA:

La C3410 es enviada con el Sujetador A, el retén de disco (el retén de seguidad), el sujetador B, el perno de eje, y el protector de perno instalado. El perno de eje del protector de perno se apoya en la rosca izquierda. El perno de eje, y el protector de perno se apoya en la rosca derecha. El perno de eje, y el protector de perno se apoya en la rosca izquierda. El perno de eje, y el protector de perno se apoya en la rosca derecha.

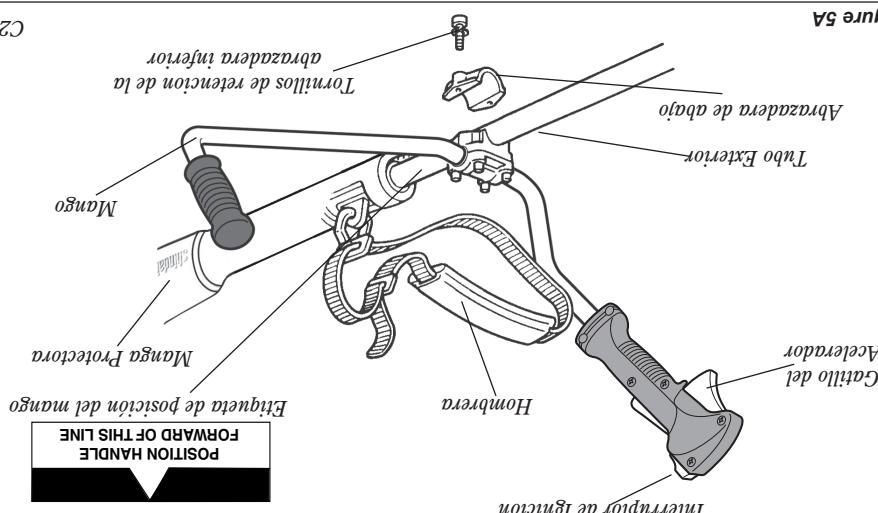
Mangu C242

Instale el mango tipo barra:

POSITION HANDLE FORWARD OF THIS LINE

Use la llave hexagonal de 4 mm para retirar los tornillos de retención de la abrazadera inferior del soporte del mango. Separar la tapa de la abrazadera, fijese en la posición de los espaciadores de 2" a instalar entre la abrazadera inferior y la calcomanía depositada. Posicione el mango sobre el tubo exterior. Posicione el mango en una forma con forma de abrazadera inferior desmontaje. Consulte la orden reversa de ensamblaje. Vuelva a ensamblar la ción del mango. Una vez ensamblado el interior del mango, retire el tubo exterior.

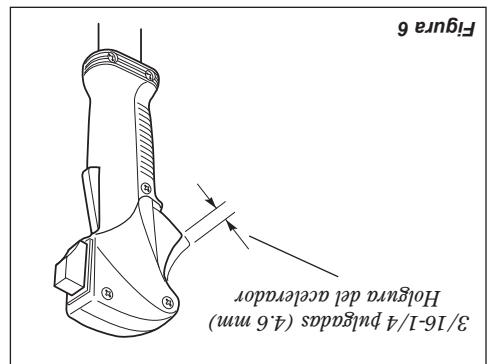
4. Apriete firmemente ambos tornillos de retención de la tapa inferior. 5. Apriete el cable de freno con las ramíneulas. Consulte la figura 5. Los bandas que vienen en el kit de herramientas. Consulte la figura 5.

**Ensamblaje (Continuación)**

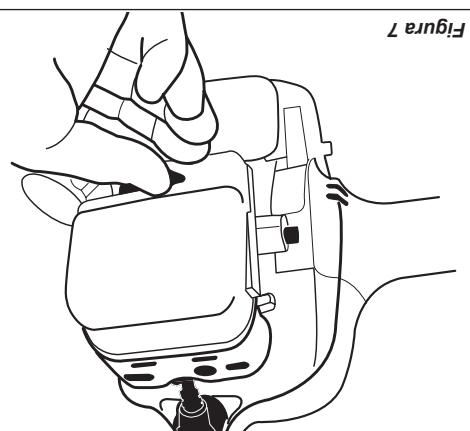
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Figura 6

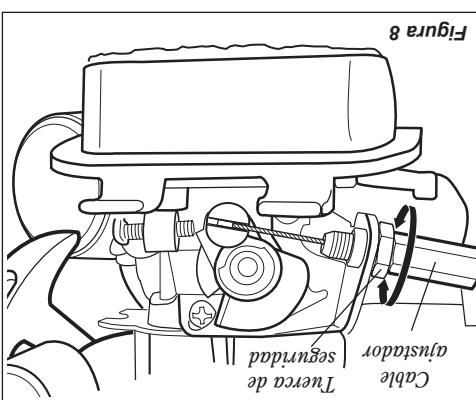
*Holgura del acelerador
3/16-1/4 pulgadas (4.6 mm)*

**Ajustes****Ajuste la holgura del acelerador**

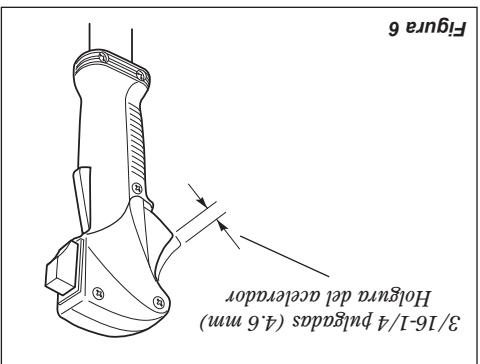
1. Afloje el botón de la tapa del filtro de aire.
2. Afloje la tuerca de seguidad en el cable ajustador. Consulte la figura 8.
3. Gire el cable ajustador hacia dentro o hacia fuera como sea requerido para obtener la holgura apropiada 3/16-1/4 pulgadas (4.6 mm). Consulte la figura 8.
4. Apriete las tuercas de seguidad.

**Figura 8**

1. Afloje el botón de la tapa del filtro de aire.
2. Afloje la tuerca de seguidad en el cable ajustador. Consulte la figura 8.
3. Gire el cable ajustador hacia dentro o hacia 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 seguidad.



1. La holgura del acelerador debe ser aproximadamente de 3/16-1/4 pulgadas (4.6 mm). Consulte la figura 6.
2. Consulte la figura 6. Cerciorarse que el gatillo de aceleración opere suave mente sin trabarse. Si es necesario ajustar la holgura, siga los procedimientos establecidos en la continuación.

Figura 6

!PRECAUCIÓN!

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

4. Volver a apretar el tornillo de la abrazadera al igual que la tuerca.

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

2. Coloque los dos espaciadores y el
montaje del protector del accesorio de
corre.

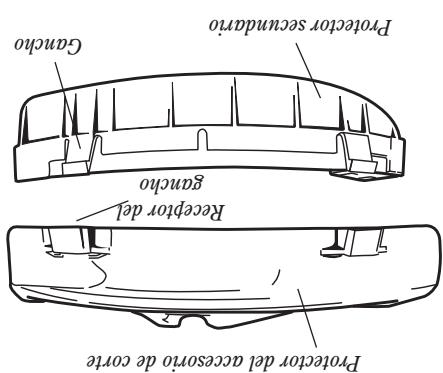
1. Una la extensión del protector al
protector del cabezal de corte.

!ADVERTENCIA!

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

!ADVERTENCIA!

Assegurarse que el protector secundario
no esté completamente enganchado
con el receptor del gancho.



1. Una la extensión del protector al
protector del cabezal de corte en uso)

!ADVERTENCIA!

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

!ADVERTENCIA!

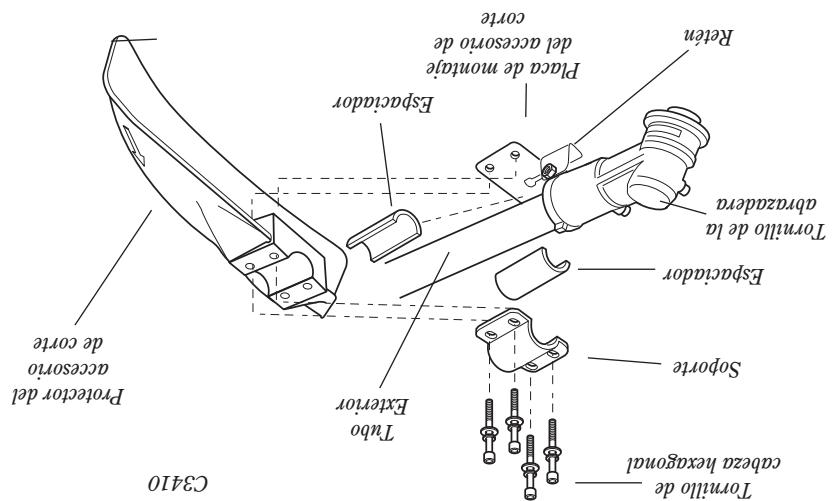
Puede que sea necesario aflojar el retén y el
tornillo sujetador para ajustar la placa de
montaje. Consulte la figura 9.

NOTA:

1. Imserre el protector del accesorio de
corre C242.

Instale el protector del accesorio de
corre C242.

Figura 9



!Ensamblaje

Protector del accesorio de corte

C3410

Protector del accesorio de corte

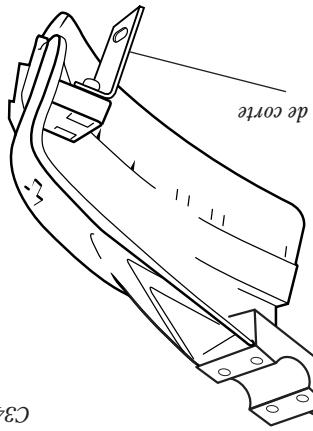


Figura 9A

Protector del accesorio de corte

C3410

Protector del accesorio de corte

!IMPORATANTE!

Los términos "izquierda", "mano izquierda", "derecha", "mano derecha", "delantera" y "trasera", indican direcciones y órdenes de sentido del punto de vista del operador del producto.

* El cumplimiento de emisiones EPA refiere a la etiqueta en el motor cumplido con las regulaciones de emisiones de motor (Moderado), B = 125 horas (intermedio) y A = 300 horas (Excedido). Indica el número de horas de operación por la cual el motor ha demorado cumplir con los requisitos federales de emisiones. Categoría C = 50 horas.

ONE cumple o excede estas especificaciones y es recomendada para todo los productos de Shindaiwa.

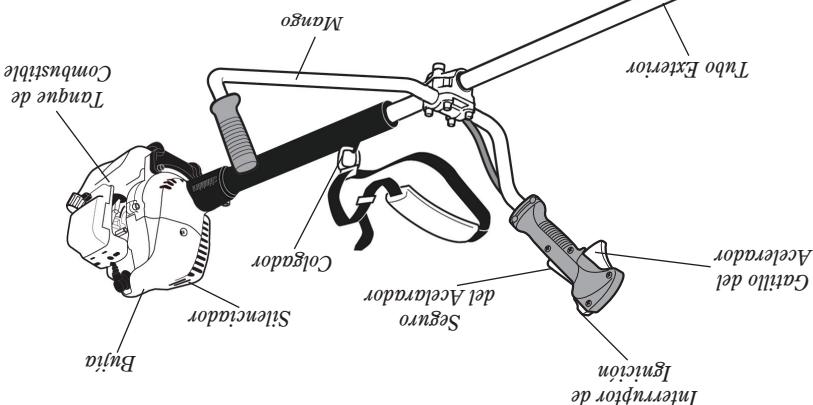
Tipo de Transmisión.....Automática, embrague centralizado Período de Cumplimiento con Regulaciones de Emisiones EPA*.....Categoría A Método de Parada.....Interruptor Método de Arranque.....Recular Filtro de Aire.....Filtro de espuma no reversible Método de Arranque.....Filtro de espuma no reversible

No haga modificaciones ni a sus componentes. No autorizadas a ningún uso de este tipo de máquina.



ADEVERTENCIA!

Use las ilustraciones como guía, familiaríjase con esta unidad y sus varios componentes. Consulte la figura A. Conoce cómo la unidad le ayudará a obtener alto rendimiento, vida útil más prolongada y operación con seguridad.



Desmalezadora C242

Descripción del Producto

bujía y desmoldeador, y una llave inglesa. Pueden incluir una llave hexagonal, llave de herramientas varián por modelo y para mantenimiento rutinario. Los kits para armar una máquina completa e inspección la unidad y componentes en teñas todos los componentes necesarios antes de ensamblar, cerciorarse de que

busca de daños. Antes de ensamblar, cerciorarse de que para armar una máquina completa e inspección la unidad y componentes en teñas todos los componentes necesarios antes de ensamblar, cerciorarse de que

- Kit contenido el soporte y utensilios
- Accesorio de corte.
- Protector del accesorio de corte.
- Mango y Acelerador completo.
- Motor/Tubo de montaje del la parte exterior.
- Motor/Tubo de montaje del la parte

Esta unidad viene completamente ensamblada con la excepción del mango accesorio de corte y el protector del accesorio de corte.

Antes de Ensamblar

Especificaciones sujetas a cambios sin previo aviso.

Bujía.....	NGK BPMR6A
Sistema de Encendido	Transistor controlado por una pieza eléctrica
de Combustible	22.3 onzas/670 ml
Capacidad del Tanque	2.3 onzas/670 ml
Tipo de Carburador	Walbro WYK, tipo diafragma
Combustible/Acetato	FC aceite de mezcla de motor 2 tiempos*
Potencia Máxima.....	1.0 HP/8 KW @ 8,000 RPM (min.)
Cilindrada.....	1.5 pulg. Cilíndricos/23.9 cc
Diametro x Carrera.....	1.3 x 1.1 in./33 mm x 28 mm
Tipo de Motor	Catalizador de 2 ciclos
Modelo de Motor	S242E
(sin accesorios)	12.4 libras/5.6 kg

Especificaciones C242

Figura 4

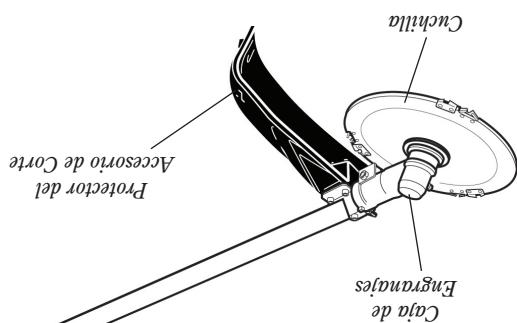
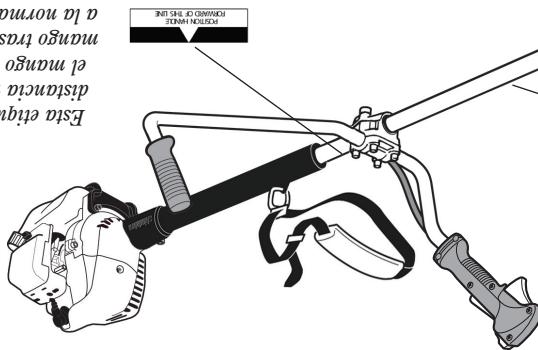


Figura 3

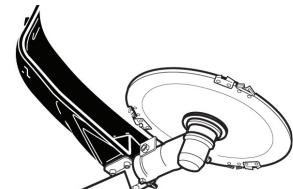
Este etiquetas de seguridad autorizado de Shindaiwa.
Etiquetas nuevas están disponibles en su centro de servicio local.
Etiquetas dañadas o faltantes. Reemplazar inmediatamente.
Estén libres de daños y legibles.
Asegúrese que toda la etiquetas estén libres de daños y legibles.
Información de Operación:

!IMPORATANTE!

a la norma ANSI B175.3
mango traseño de acuerdo
el mango delantero y el
distancia mínima entre
esta etiqueta indica la
longitud del mango.



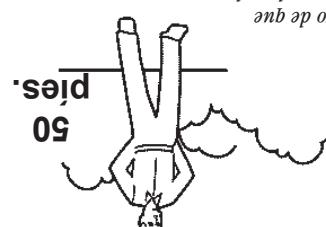
C242



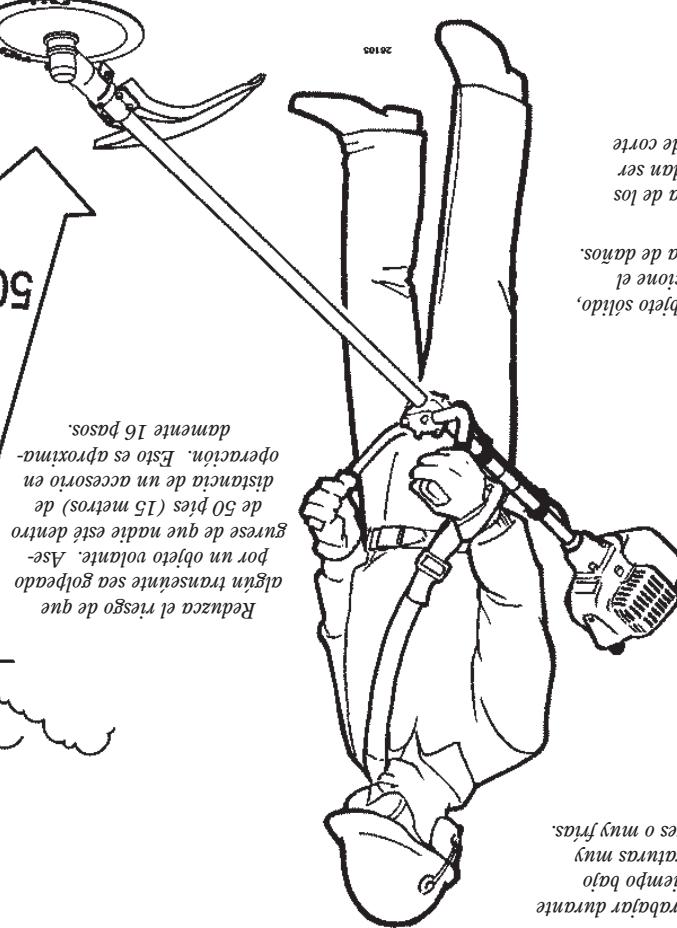
Etiquetas de Seguridad

Figura 2

Siempre certifique de que
el protector del accesorio
de corte esté correctamente
instalado.



Cerciorarse de que
transmiten u observadores estén
fuera de la "zona de
peligro" de 50 pies usen
protección de ojos.



Si hace contacto con un objeto sólido,
detenga el motor e inspeccione el
accesorio de corte en busca de daños.
Este constante alterta de los
objetos despegados que quedan ser-
tazados por el accesorio de corte
o rebotes.

Tenga mucho
tiempo de lluvia.
reños resbalosos,
barro sobre ter-
renos resbalosos,

Evite trabajar durante
largos períodos many
temperaturas may-
calientes o muy frías.

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.

Mantenga alejado de la linea de cintura. Mantenga una rotacion mas arriba de ceroso en rotacion de todo momento, y nunca levante una accion o disco en rotacion en todo momento. Nunca deje la linea de cintura.

SIEMPRE use protector de que el protector del acceso a tideslizantes: no use zapatos con los dedos descubiertos o sandalias. Nunca opere la maquina descalzo!

Use calzado apropiado (botas o zapatos an- posiccion segura y nuncas extienda el uso de la maquina. Nunca extienda el momento durante el uso de la maquina. Nunca extienda el momento durante el uso de la maquina.

SIEMPRE ofre con ambas manos sujetando el mango firmemente.

SIEMPRE use protección para los ojos tal como lentes de seguridad para protegerse de objetos lanzados.

Use un protector auditivo y casc o sombrero.

Use ropa de talla para protegerse siempre y seguro.

Use guantes siempre y seguros.

Protegen protección adicional y son altamente recomendadas. No use ropa holgada o dos. Nunca use prendas atascarse en la maquina o en la plantaciones cortos.

Use ropa de talla para protegerse de objetos lanzados.

SIEMPRE use escudo contra objetos lanzados.

SIEMPRE, si el disco/cuchilla se enreda en un corto, apague el motor inmediatamente. Saque la rama o arbol para liberar el disco/cuchilla.

SIEMPRE desconecte el cable de mangos limpios.

SIEMPRE sujetate la maquina cuando cortes o recortes, y mantenga las manos firmemente con ambas manos de vegetacion, barro, etc.

SIEMPRE mantenga la maquina lo mas limpia posible. Mantenga libre el control en todo momento.

NUNCA extienda el cable de nylon mas alla de lo especificado para su maquina.

SIEMPRE opera el motor incorrecamente si repentinamente se detiene, fallantes o instaladas quebradas, raspado de cortes por partes empieza a vibrar. Inspeccione inmediatamente si repentinamente se detiene la maquina.

SIEMPRE use el accesorio de cortes apropiado.

NUNCA opera la unidad en el interior! Cerciorase que siempre transpore la unidad en el exterior.

SIEMPRE mantenga su area de trabajo libre de basura u objetos causar series lesiones o la muerte.

SIEMPRE opera el motor cuando haya buena ventilacion. El humo o gases del escape del motor pueden causar serias lesiones o la muerte.

NUNCA use el motor cuando transpore la unidad en el interior.

SIEMPRE use protección para los ojos como escudo contra objetos lanzados.

SIEMPRE use protección para los ojos como escudo contra objetos lanzados.

ADVERTENCIA! Use Buen Juzgio



Use Buen Juzgio

NUNCA opere el motor sin la malla del guardachispas en su lugar.

NUNCA coloque materiales inflamables cerca del silenciador de la máquina.

SIMPRE siéjese la máquina del área de combusible antes de arrancar el motor.

NUNCA combine materiales inflamables cerca del motor de cada uso.

SIMPRE verifique posibles pérdidas alrededor de la tapa o tanque de combustible. Si existe un escape de combustible, deje la máquina de cada uso. Durante cada llenado, por pérdidas de combustible, antes de cada uso. Durante el llenado de combustible, existen riesgos de volverse a llenar el tanque. Evite sobre llenar el tanque de combustible.

SIMPRE pare el motor y permita que se enfrie antes de volver a llenar el tanque. Evite sobre llenar el tanque de combustible.

NUNCA fume ni encienda fuegos cerca del motor.

AVERTENCIA! de licenciosos Disminuya El Riesgo

AVERTENCIA!

Nunca opere ninguna máquina sin forma segura.

Mantenimiento

Usted debe estar en óptimas condiciones físicas y mentales para operar esta máquina en forma segura.

AVERTENCIA!

Nunca instale accesorios no autorizados. No use accesorios no probados por Shindaiwa en esta unidad.

AVERTENCIA!

Podadoras Shindaiwa operan a velocidades altas y pueden causar daños o lesiones serias si son mal usadas o abusadas. Nunca permita que una persona sin entrenamiento o instrucción opere esta unidad.

AVERTENCIA!

Trajeje con cuidado

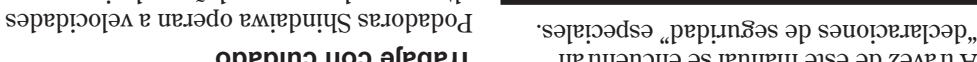
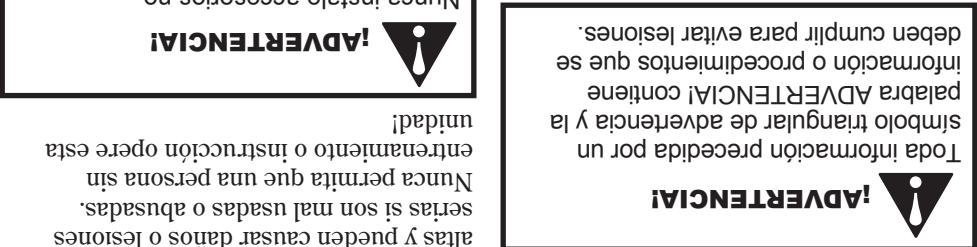
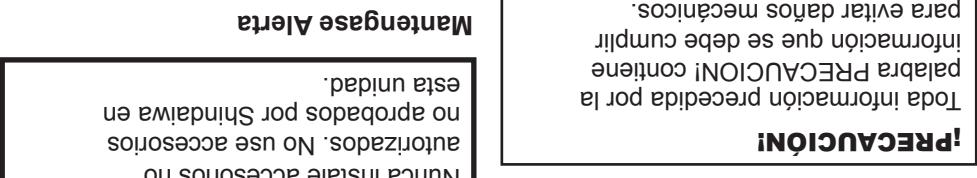
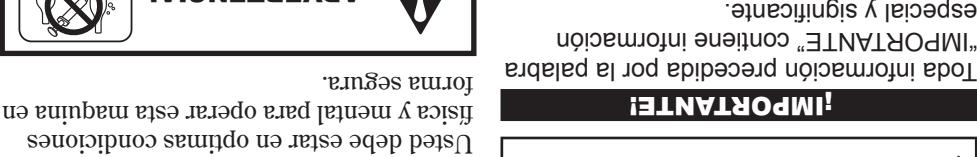
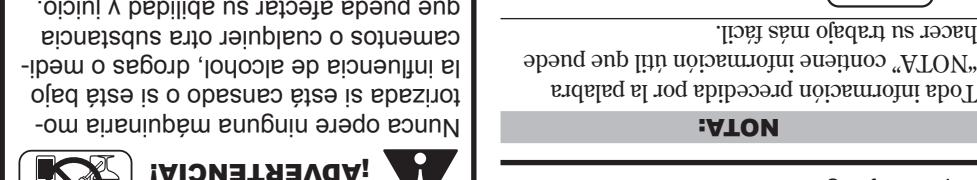
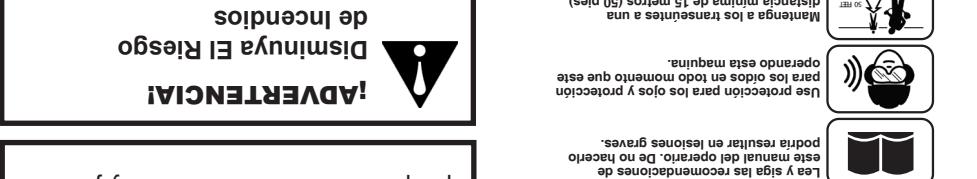
INSTRUCCIONES DE SEGURIDAD

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INTRODUCCIÓN

La desmalezadora Shindaiwa Serie 242 ha sido diseñada y construida para suministrar un rendimiento constante superior.

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Las emisiones emitidas por el tubo de escape de este producto contienen substancias químicas que en el estadio de California son consideradas como causantes de cáncer, defectos genéticos y daño a la reproducción humana.

Estas substancias químicas u otros efectos nocivos a la salud incluyen las siguientes:

- congenitales
- de cáncer
- defectos genéticos
- daño a la reproducción

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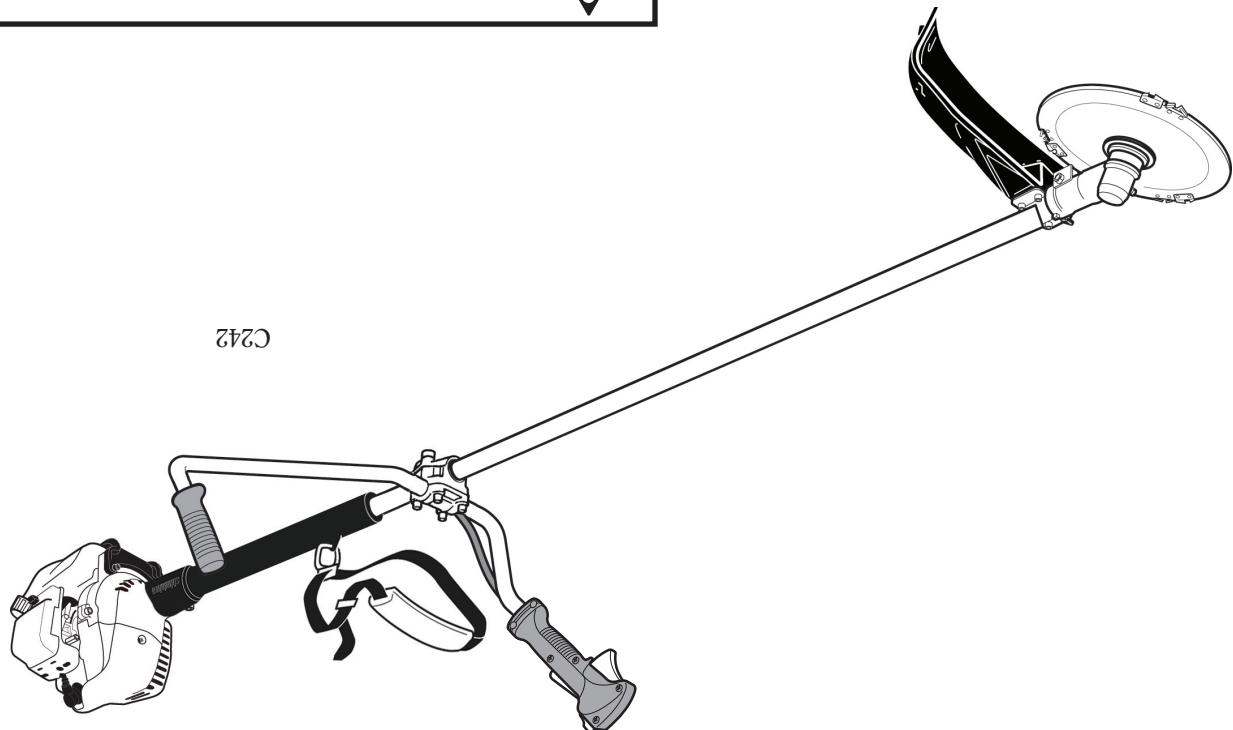
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shindaiwa

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操re esta máquina.



C242



Desmalezadora C242

MANUAL DEL PROPIETARIO/OPERADOR SHINDAIWA

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