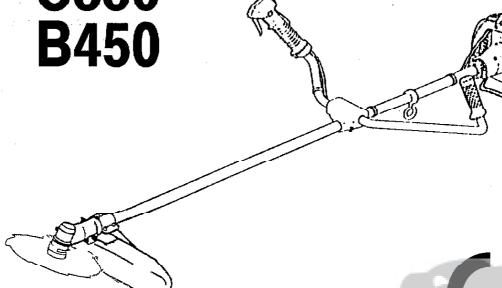
Iso 9001 ShindaWa **CERTIFIED**

INSTRUCTION MANUAL







WARNING!

Read this manual and familiarize yourself with its contents.



This machine is designed for cutting grass, weed and bushes. Do not use this machine for other purposes.

Minimize the risk of injury to yourself and others.

Do not operate or service this machine unless you clearly understand this manual.

Keep this manual at a particular place so that you can reread it whenever you have a question about its use.

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1 ATTENTION SYMBOL

Throughout this manual are special "attention statements" surrounded by boxes and preceded by the triangular Attention Symbol.



WARNING!

A statement preceded by 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 machine 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.

2 WARNING LABELS

Warning labels stuck to the machine mean as follows.

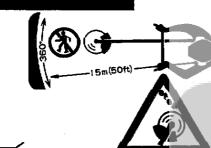


READ AND FOLLOW THE OPERATOR'S MANUAL. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY.

WEAR HEAD, EYE AND HEARING PROTECTION DURING THE OPERATION OF THIS MACHINE.



WEAR NON-SLIP GLOVES, LONG TROUSERS AND NON-SKID BOOTS DURING THE OPERATION OF THIS MACHINE.



MAKE SURE NO ONE IS WITHIN 15 METERS (50 FEET) OF AN OPERATING ATTACHMENT.

BEWARE OF THROWN OBJECTS.

2000/14/EC)

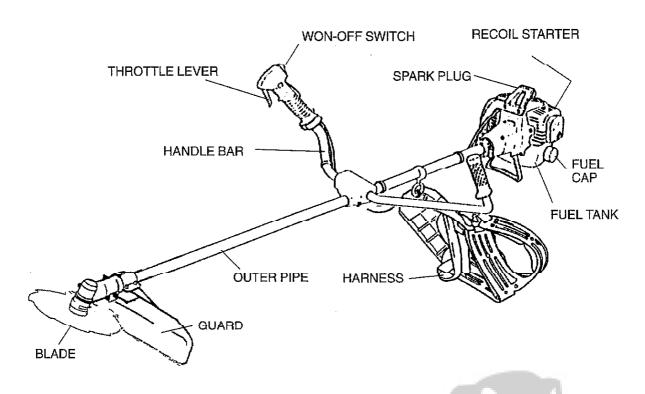
THE MAXIMUM SPEED OF THE CUTTING ATTACHMENT SHAFT IN min-1



8500min⁻¹

SOUND POWER LEVEL (MEASURED IN ACCORDANCE WITH

3 PRODUCT DESCRIPTION





WARNING!

The engine exhaust from this product contains chemicals which may cause cancer, birth defects or other reproductive harm.

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



WARNING!

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

4 TECHNICAL SPECIFICATIONS

Model Name		C350	B450	
Engine Model		Shindaiwa S350-2	Shindaiwa S450-2	
Engine Type		2-cycle, vertical-cylinder, air-cooled		
Displacement		33.6 cm ³	41.5 cm ³	
Bore × Stroke		36mm ×33mm	40mm × 33mm	
Engine Speed at Idli	ing	2,750 min ⁻¹		
Maximum Engine S	Speed	11,500 min ⁻¹		
Engine Speed at Ma	ax Power Output	7,500 min ⁻¹		
Maximum Power O	utput	1.3 kW	1.7 kW	
Ignition		Fully electronic, transistor-controlled		
Spark Plug		NGK, BMR6A		
Starting Method		Recoil		
Stopping Method		Slide switch		
Air Cleaner Type		Semi-wet		
Fuel/Oil Ratio		25 : 1		
Fuel Tank Capacity		1,000cm ³		
Carburetor Type		TK, DPV11W, Diaphragm		
Dry Weight without c	cutting attachment and guard	7.7 kg	7.8 kg	
Dimensions		1795×565×470mm	1795×565×470mm	
Sound Pressure Lev	'el*	92 dB(A)note.1	90 dB(A)note.1	
Sound Power Level	*	105 dB(A)note.2	105 dB(A)note.2	
Vibration Laval*	Idling [left/right]	2.6/2.0 m/s ² note.3	1.7/1.7 m/s ² note.3	
Vibration Level*	Racing [left/right]	4.8/4.0 m/s ² note.3	3.6/3.8 m/s ² note.3	
Handle Type		Bicycle Handlebar		
		1.1 EXTTOO 44004 1E		

*Sound Pressure Level: in accordance with EN ISO 11806 and EN 27917 *Sound Power Level: in accordance with EN ISO 11806 and ISO 10884

*Vibration Level:

in accordance with EN ISO 11806 and ISO 7916

notel: Measured by Shindaiwa with 3-tooth blade equipped.

Sound pressure level on trimmer head use are as follows.

C350: 98 dB(A) B450: 98 dB(A)

note2: Measured by Shindaiwa with 3-tooth blade equipped. Sound power level on trimmer head use are as follows.

C350: 111 dB(A) B450: 112 dB(A)

note3: Measured by Shindaiwa with 3-tooth blade equipped. Vibration level on trimmer head use are as follows.

C350: Idling (left/right): 2.2/1.6 m/s²

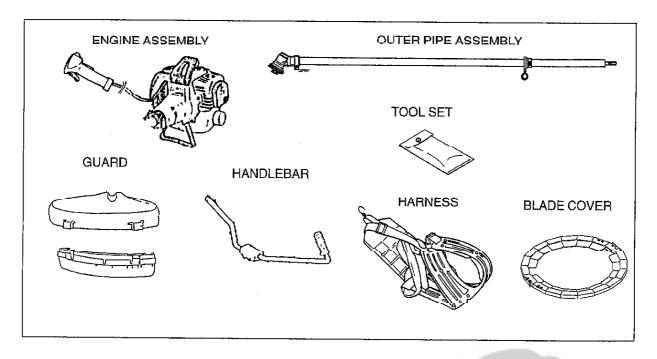
Racing (lcft/right): 8.0/8.1 m/s²

B450: Idling (left/right): 1.6/1.6 m/s² Racing (left/right): 3.6/4.6 m/s²

5 ASSEMBLY PROCEDURE

5-1 Prior to Assembly

Before assembling, make sure you have all the components required for a complete unit. This machine consists of the following components and accessories. Carefully inspect all components for damage. If you find any damage or missing items, ask your dealer for consultation.

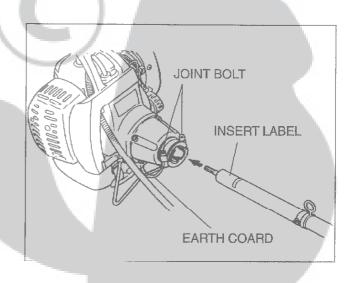


IMPORTANT!

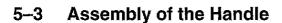
The terms "left", "left-hand", and "LH", "right", "right-hand", and "RH", "front", and "rear" refer to directions as viewed by the operator during normal operation.

5-2 Assembly of the Outer Pipe

- (1) Loosen the 2 joint bolts fully and slip the outer pipe into the joint un til the pipe bottoms (up to the insert lable).
 - The outer pipe or gear case shaft may have to be rotated slightly for the splines on the mainshaft to fully engage to the engine.
- (2) Attach the earth cord to the joint bolt.
- (3) Tighten the 2 joint bolts securely.



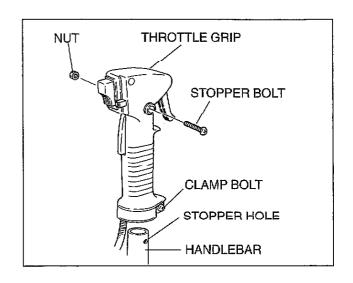
- (4) Loosen the stopper bolt of the throttle grip and remove the stopper bolt and its nut.
- (5) Fully loosen the clamp bolt of the throttle grip.
- (6) Slip the right side handlebar into the throttle grip. Locate the throttle grip so that the stopper bolt can go into the stopper hole. Tighten the stopper bolt together with its nut securely.
- (7) Tighten the clamp bolt securely.

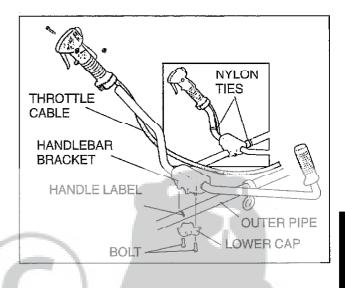


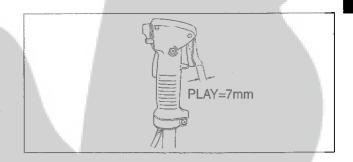
- (1) Loosen the 2 bolts of the lower cap and remove the lower cap.
- (2) Position the handle bracket on the handle label stuck to the outer pipe.
- (3) Attach the lower cap with the 2 bolts and tighten the bolts. Make sure the handle stays as the illustration shows.
- (4) Secure the throttle cable by the nylon ties as the illustration shows.

5–4 Adjustment of the Throttle Cable

(1) Pulling the throttle trigger gently, make sure the play is about 7mm.







- (2) If the play is too long or too short.
 - Slide the cable cap toward the muffler side until the adjusting nut and the lock nut appear.
 - 2 Loosen the lock nut slightly.
 - (3) Turn the adjusting nut so that the play becomes about 7mm.
 - 4 Then, tighten the lock nut.
 - (5) Finally, slide the cable cap back.

5-5 Assembly of the Safety Guard



WARNING!

NEVER operate this machine without the safety guard. Operating without the safety guard may result in serious

(A) Guard

injury.

 Insert the safety guard between the outer pipe and the lower clamp.
 Loosen the nut and bolt which are tightening the lower clamp if the safety guard

does not fit with the lower clamp.

and tighten with four bolts.

(2) Fit the upper clamp over the outer pipe

NOTE:

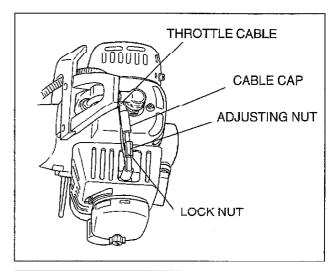
Tighten four bolts in order of the diagonal line.

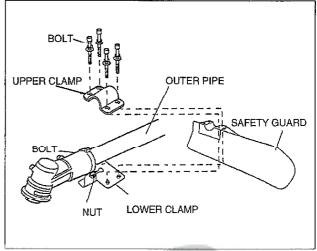
(3) Tighten securely the nut and bolt which are tightening the lower clamp.



WARNING!

Carefully inspect the safety guard installation to make sure it is tightened securely and does not wobble.

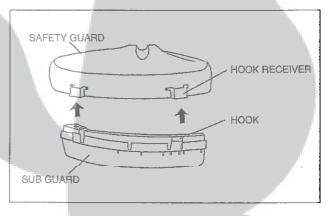




- (B) Sub guard (When trimmer head is equipped)
- (1) Attach the sub guard in the safety guard.

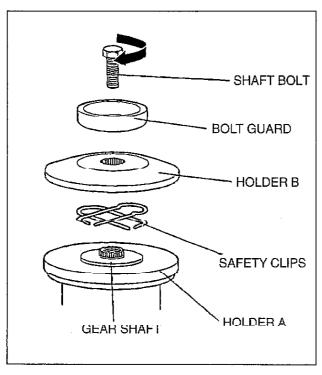
NOTE:

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

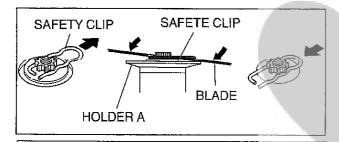


5-6 Mounting of the Saw Blade

(1) Make sure the switch is off and the engine is stopped.



- Wear gloves to protect your hands.
- (3) Turn the unit over so that the saw holder flange extending from the gear case is facing up.
- (4) Using the small end of the plug wrench, loosen the bolt (turn clockwise) and remove the bolt, bolt guard and holder B.
- (5) Slide the safety clip as the illustration shows.





WARNING!

Never operate this machine without the safety clip in place.

(6) Fit the blade over the safety clip and onto the holder A. Then, slide the safety clip back to the original position.

WARNING!

The blade must fit flat against the holder A. The blade's mounting hole must be centered over the raised boss of the holder

- Put the holder B and bolt guard back and tighten the bolt fingertight only at this time. Make sure the holder B is flat against the blade and the recess in the holder B must face the blade and completely cover the safety
- Rotate the holder A until the hole in its skirt aligns with the hole in the gear case. Insert the hex wrench through both holes (to prevent the shaft from turning).



clip.

WARNING

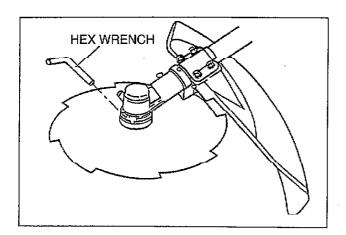
Before operating, make sure the blade is securely mounted. Turn the blade with your hand slightly and make sure the blade turns smoothly without wobbling.

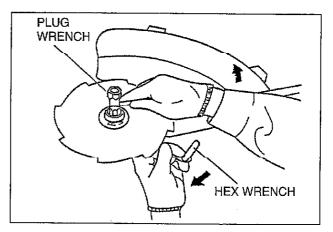
- Holding the hex wrench and the blade with one hand, tighten the bolt (turn counter-clockwise) securely using the small end of the plug wrench.
- (10) Remove the hex wrench.



WARNING!

Make sure the direction of the arrow indicated on the blade corresponds with the arrow indicated on the safety guard.





6 STARTING/STOPPING/ADJUSTING THE ENGINE

6-1 Fuel filling



WARNING!

When filling fuel, make sure the engine is stopped and it is cooled down.

Filling fuel or mixing fuel and oil must be done in a place where there is no fire around.



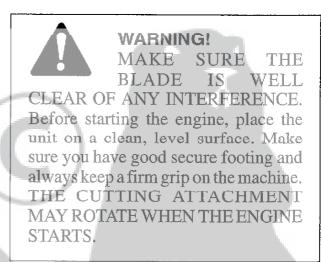
CAUTION!

Use Shindaiwa Premium 2-cycle Engine Oil mixed for a gasoline/oil ratio of 40:1. If Shindaiwa Premium 2-cycle oil is not available, you may use a fuel that consists of gasoline and 2-cycle mixing oil premixed to a ratio of 25:1.

- (1) Turn the fuel cap counterclockwise and take it off.
- (2) With the fuel cap hanging down from the filler opening, fill the fuel

- tank with fresh, clean fuel (mixture of fuel and oil) and tighten the fuel cap securely.
- (3) If there is any fuel spilt on the machine, make sure it is wiped off completely.

6-2 Starting the Engine





WARNING!

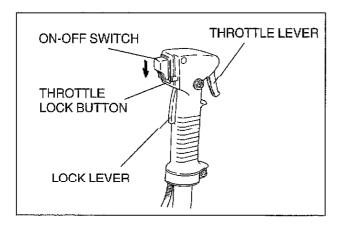
Move at least 3 m away from fueling site before starting the engine.



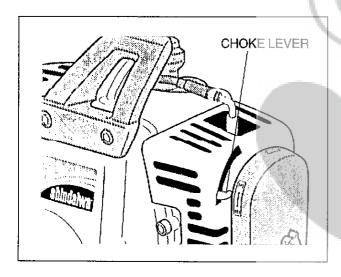
WARNING!

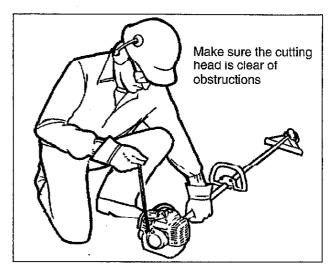
Never operate the engine without the cutting attachment installed.

(1) Starting a Cold Engine and/or Restarting After Refueling



- (1)Slide the ON-OFF switch toward the engine ("I" position).
- Depress the primer bulb until fuel can be seen flowing through the transparent overflow return pipe.
- Push the choke lever upward ("|/" position).





- Depressing the lock lever, pull the throttle lever fully and depress the throttle lock button. While depressing the throttle lock button, release the throttle lever and the lock lever. Now the throttle stays at high-idle (starting speed).
- While firmly holding the outer pipe with one hand, pull the recoil starter handle upward with your other hand. Pull slowly at first until you feel the starter engage, then pull quickly to start the engine. Do not pull the starter rope to the end of its travel.

CAUTION!

Pulling the starter rope to the end of its travel can damage the starting mechanism.

IMPORTANT!

Repeated cranking of the engine with the choke CLOSED (" | ") will lead to engine flooding. If the engine fails to start after several attempts, move the choke lever to the OPEN position and continue cranking.

- 6 When the engine first fires, gradually return the choke to the OPEN ("III") position (if have not already done so).
 - If the engine stops before the choke is fully open, restart with the choke closed.
 - If the engine stops after initial firing, restart with choke closed.
- When the engine starts and is running, set the engine to idle by tapping the throttle lever to release the throttle lock.



WARNING!

Never start the engine from the operating posi-

tion.

(2) Starting a Warm Engine

Starting a warm engine involves all the steps of starting a cold engine, EXCEPT:

- DO NOT press the primer bulb, and
- The choke should be in the OPEN position.

If the engine does not start, follow the cold starting procedure.

- (3) When the engine starts...
- After the engine starts, disengage the throttle lock and allow the engine to warm up at idle 2 or 3 minutes before operating the machine.
- After the engine is warm, pick up the machine and clip on to the strap.
- Advancing the throttle makes the cutting attachment faster; releasing the throttle makes the attachment stop turning. If the cutting attachment continues to rotate, carburetor idle speed should be adjusted.

6-3 Stopping the Engine

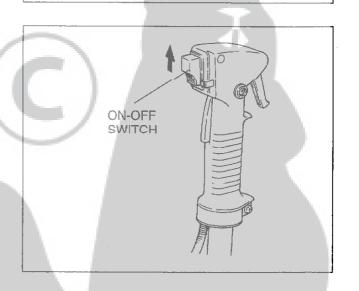
Idle the engine briefly before stopping, then slide the ON-OFF switch to the "O" (for STOP) position.



WARNING!

The cutting attachment continues rotating for a

while after the switch is turned off.



6-4 **Adjusting the Engine**



ence.

WARNING!

When adjusting engine, the cutting attachment may rotate. Make sure the cutting attachment is well clear of any interfer-

The idle speed should be adjusted so the clutch will disengage at low engine rpm's, causing the cutting attachment to stop rotating.

- (1) Check and Adjust Idle Speed
 - Start the engine and allow it to warm up at low speed.
 - If the cutting attachment rotates at engine idle, reduce idle speed by turning the idle adjust screw counterclockwise.

NOTE:

Standard idle speed is 2,750 min⁻¹, $+/-250 \text{ min}^{-1}$.

(2) Adjustment of Low and High Speed

Consult your dealer for low and/or high speed adjustment. The following is the standard opening just for your reference.

SCREW STANDARD OPENING SLOW AIR SCREW : 0 TURN (C350/B450) MAIN ADJUST SCREW: 2 ± 1/4 TURNS (C350) 1 34 ± 44 TURNS (B450)

NOTE:

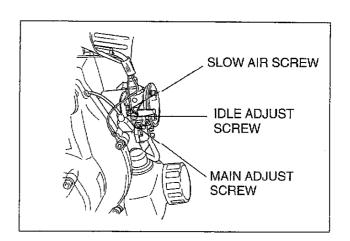
Standard opening is the number of turns from the fully closed position.



WARNING!

The cutting attachment should NEVER rotate at

engine idle.



7 UNIT CONDITION CHECK

NEVER operate the unit with the safety guard or other protection devices (strap, blade retention clip, etc.) removed. NEVER cut with dull blades. Doing so will increase the risk of blade thrust and may also damage your equipment.



WARNING!

A safety guard 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 this machine. Do not make modifications to the machine without the written approval of Shindaiwa.

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 cutter 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 machine becomes tangled. Do not operate with broken or damaged equipment.

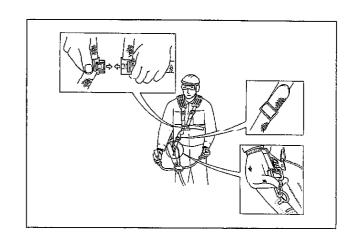
NEVER operate a machine within worn or damaged fasteners or attachment holders.



8 PRIOR TO OPERATION

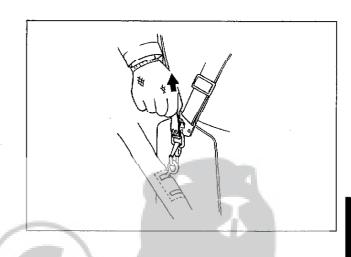
8-1 To Wear The Harness

- (1) Wear the harness as the illustration shows.
- (2) Pressing the button, fasten the chest belt.
- (3) Hook the harness hook to the hanger.
- (4) Adjust the length of the belts for your comfortable operation.
- (5) Make sure the hip pad stays between your hip and the outer pipe.

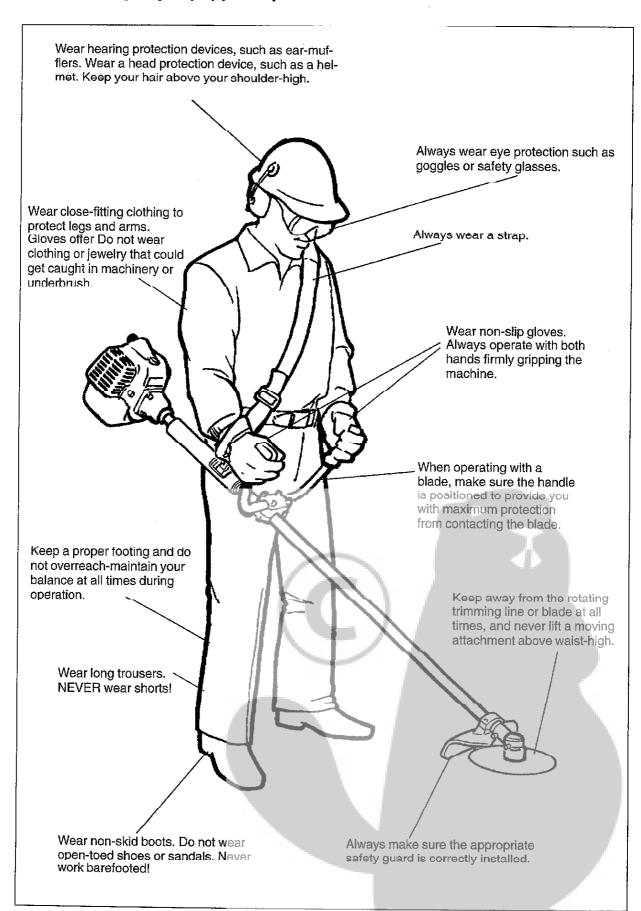


8-2 Emergency Release

In case of emergency, strongly pull the white tab at the hook. The machine will be released from the strap.



8-3 The Properly Equipped Operator



8-4 General Safety Instructions

Work Safely

Trimmers and brushcutters run 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 your machine.



WARNING!

Never make unauthorized attachment installations.

Stay Alert

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



WARNING!

Never operate power equipment of any kind if

you are tired or if you are under the influence of alcohol, drugs, or any other substance that could affect your ability or judgement.



WARNING!

Minimize the Risk of Fire NEVER smoke or light

fires near the trimmer or brushcutter. ALWAYS stop the engine and let it cool before refueling. Avoid overfiling and wipe off any fuel that may have spilled. 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.



WARNING!

Use Good Judgment
ALWAYS wear eye

protection to shield against thrown objects.

NEVER run the engine when transporting the machine.

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 machine immediately if it suddenly begins to vibrate or shake. Inspect for broken, misssing or improperly installed parts or attachments.

NEVER extend trimming line beyond the length specified for your unit.

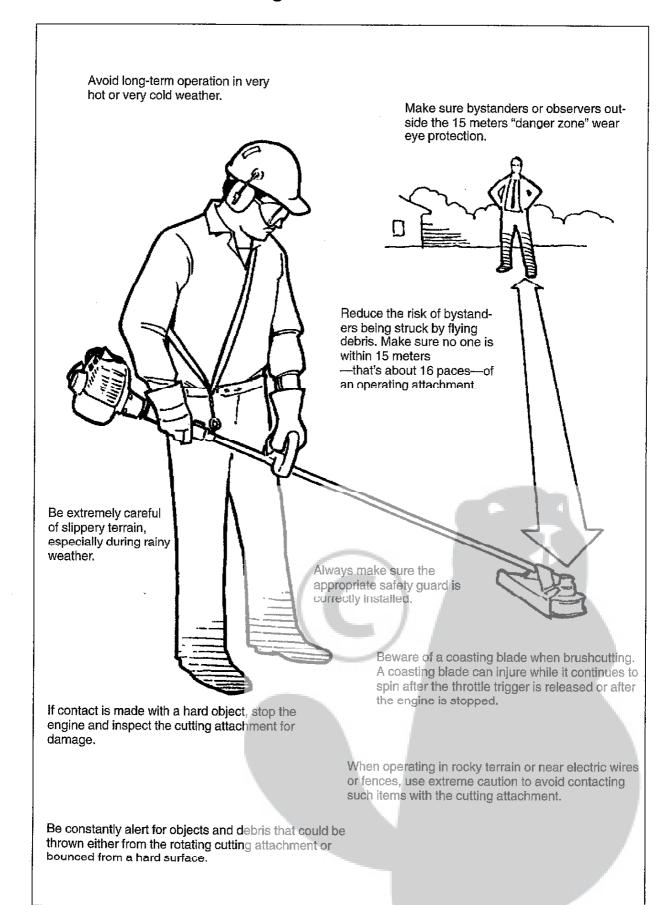
ALWAYS keep the unit as clean as practical. Keep it free of loose vegetation, mud, etc.

ALWAYS hold the machine 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.

8-5 Be Aware of the Working Environment



9 OPERATION

- (1) After starting the engine, pull the throttle lever gradually. The engine speed increases and the blade will start rotating.
- (2) When the throttle lever is released, the engine goes back to idle speed automatically.
- (3) Operate the machine at full throttle while cutting. Best fuel efficiency is obtained by releasing the throttle when swinging back after cut.
- (4) 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 blade's

7 o'clock and 10 o'clock positions (as viewed from above). DO NOT cut between the 11 o'clock and 5 o'clock positions.



"BLADE THRUST" is a sudden sideway or back-

ward motion of the machine. 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.



CAUTION!

DO NOT use 2-tooth blades with this machine.



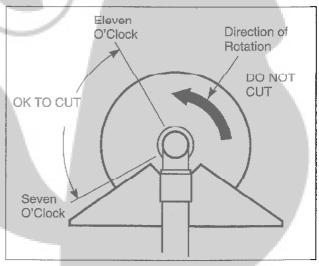
CAUTION!

To prevent possible engine damage, do not

allow the machine 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 wrap around the cutting attachment.







WARNING!

NEVER strike or slam the spinning blade against the

wood.



WARNING!

When transporting, make sure the engine is not run

ning and the blade is covered with the blade cover.

10 RECOMMENDED **CUTTING ATTACHMENT**

Make sure to use the following recommended Shindaiwa Cutting attachment with this machine.

(A) Blades

PART NUMBER 60903-98310

8-TOOTH BLADE

INNER BORE: 25.4mm DIAMETER: 255.0mm

THICKNESS: 2.0mm

PART NUMBER 72430-92142

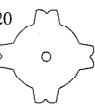
3 TOOTH BLADE INNER BORE: 25.4mm DIAMETER: 255.0mm

THICKNESS: 2.2mm

PART NUMBER 60903-98320

4-TOOTH BLADE

INNER BORE: 25.4mm DIAMETER: 255.0mm THICKNESS: 2.0mm



(B) Trimmer Head

(a) C350

PART NUMBER 78820-06000

TAP & FEED TRIMMER HEAD

BOLT DIAMETER 10mm

THREAD: LEFT 1.25mmPITCH

(b) B450 PART NUMBER 78820-01000 AUTOMATIC TRIMMER HEAD **BOLT DIAMETER 10mm** THREAD: LEFT 1.25mm PITCH

11 BLADE SHARPENING

With a file or a grinder, file a blade as follows.



WARNING!

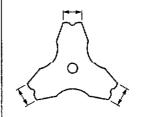
Sharpen only the cutting teeth of a blade. DO NOT

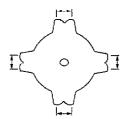
alter the contour of the blade in any way.

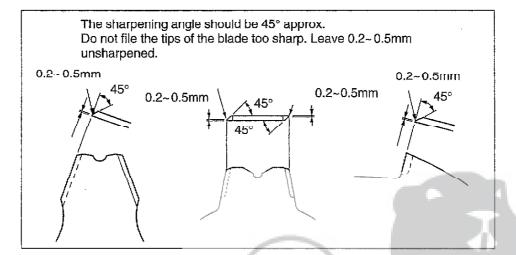
In order to keep the blade in balance, all cutting edges must be sharpened equally.

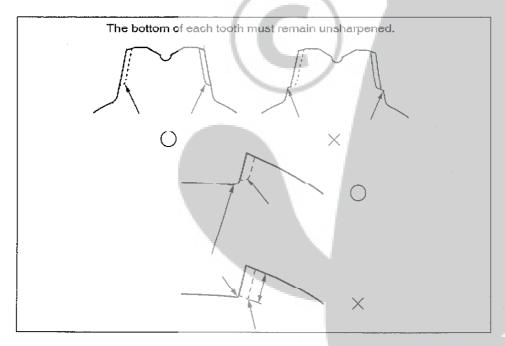
DO NOT file the tips of the teeth too sharp.

Make sure the width of the 3 sides/4 sides is all the same.









12 MAINTENANCE



WARNING!

Before performing any maintenance, repair, or ork on the machine, make ine and cutting attachment

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



WARNING!

Never repair a damaged blade by welding, staigh-

tening, or by modifying its shape. An altered blade may break during operation, resulting in serious personal injury.

12-1 Daily Maintenance

Prior to each work day, perform the following:

- Remove the dirt and debris from the engine, check the cooling fins and air cleaner for clogging, and clean them as necessary.
- Carefully remove any accumulations of dirt or debris from the muffler and fuel tank. Dirt build-up in these areas can lead to engine overheating, fire, or premature wear.
- Check for loose or missing screws or components. Make sure the cutting attachment is securely fastened.
- Check the machine for leaking fuel or grease.

12-2 10-Hour Maintenance

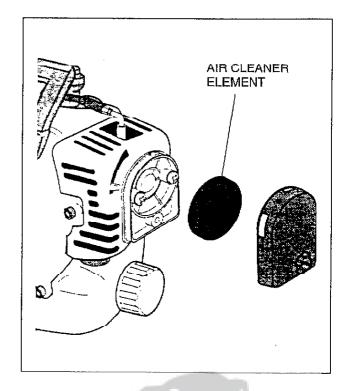
Remove the air cleaner element from the carburetor and clean it thoroughly with mixed fuel. Squeeze out the fuel and reassemble the element



CAUTION!

Do not operate the machine if the air cleaner or element is damaged, or if the ele-

ment is wet or watersoaked.



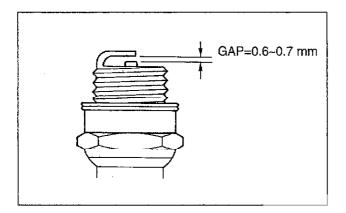
12-3 10/15-Hour Maintenance

Remove and clean the spark plug. Adjust the spark plug electrode gap to 0.6~0.7mm. If the plug must be replaced, use only an NGK, BMR6A.

A

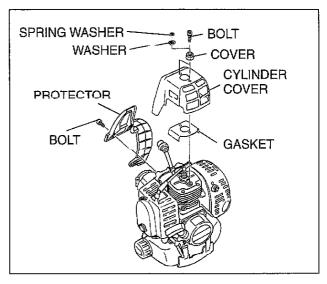
CAUTION!

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

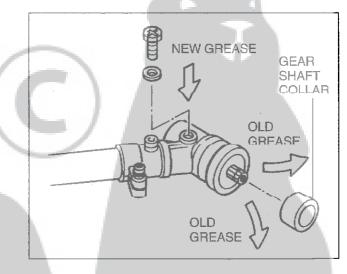


12-4 50-Hour Maintenance

Remove and clean the cylinder cover and clean grass and dirt from the cylinder fins.



Remove the cutting attachment and the gear shaft collar, and press new grease into the gear case until the old grease has been pushed out. Use only lithium-base grease (such as Shindaiwa Gear Case Lubricant).



12-5 Long Term Storage

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

- Clean external parts thoroughly and apply a light coating of oil to all metal surfaces.
- Drain all the fuel from the carburetor and the fuel tank.

IMPORTANT!

All stored fuels should be stabilized with a fuel stabilizer such as STA-BIL®.



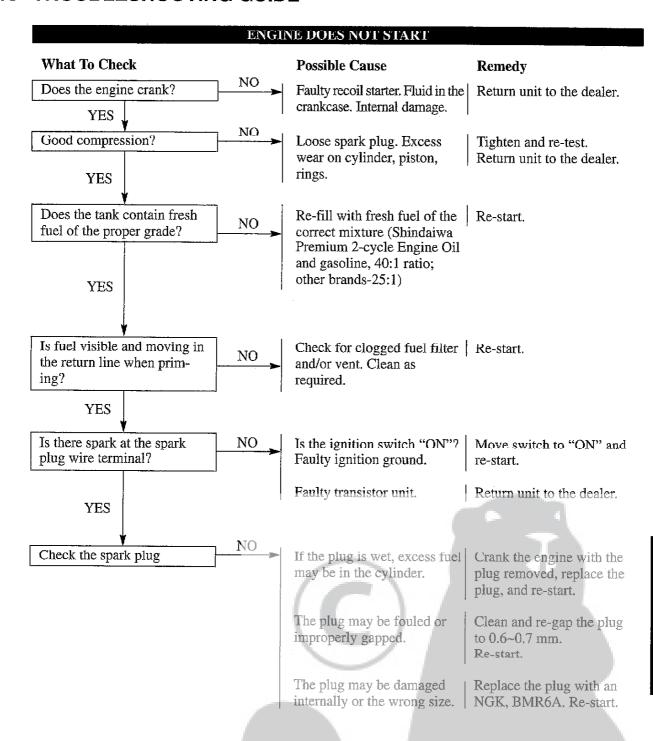
CAUTION!

Gasoline stored in the carburetor for a long time will

likely cause hard starting and could lead to increased service and maintenance costs.

- Remove the spark plug and pour about 1/4 ounce of 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 machine, repair or replace any worn or damaged parts.
- Remove the air cleaner element from the carburetor and clean it thoroughly with mixed fuel. Squeeze out the fuel and reassemble the element.
- Store the machine in a clean, dust-free area.

13 TROUBLESHOOTING GUIDE



LOW POWER OUTPUT

What To Check	Possible Cause	Remedy
Is the engine overheating?	Operator is overworking the machine.	Adjust trimmer line. Cut at a slower rate.
	Carburetor mixture is too lean.	Adjust the carburetor (authorized personnel only).
	Improper fuel ratio.	Re-fill with fresh fuel of the correct mixture (Shindaiwa Premium 2-cycle Engien Oil and gasoline—40:1 ratio; other brands—25:1 ratio).
	Fan, fan cover, cylinder fins dirty or damaged.	Clean, repair or replace as necessary.
	Carbon deposits on pistons or in the muffler.	Decarbonize.
Engine is rough at all speeds.	Clogged air filter.	Service the filter.
May also have	Loose or damaged spark plug.	Tighten or repalce.
black smoke and/or unburned fuel at the exhaust.	Air leakage or clogged fuel line.	Repair or repalce filter and/or fuel line.
CAHAUST.	Water in the fuel.	Replace the fuel.
	Piston seizure.	Return unit to the dealer.
	Faulty carburetor and/or diaphragm.	Return unit to the dealer.
Engine is knock-ing.	Overheating condition.	See above.
<u></u>	Improper fuel.	Check fuel octane rating; check for presence of alcohol in the fuel. Refuel as necessary.
	Carbon deposits in the combustion chamber.	Decarbonize.

ADDITIONAL PROBLEMS				
Symptom	Possible Cause	Remedy		
Poor acceleration.	Clogged air filter.	Clean the air filter.		
tion.	Clogged fuel filter.	Replace the fuel filter.		
	Carburetor mixture too lean.	Adjust carburetor (authorized personnel only)		
	Idle speed set too low.	Adjust: 2,750 min ⁻¹ (+/-250)		
Engine stops	Switch turned off.	Reset the switch and re-start.		
abruptly.	Fuel tank empty.	Refuel.		
	Clogged fuel strainer.	Replace strainer.		
	Water in the fuel.	Drain; replace with clean fuel.		
	Shorted spark plug or loose terminal.	Clean and replace spark plug, tighten the terminal.		
	Ignition failure.	Replace the ignition unit.		
	Piston seizure.	Return unit to the dealer.		
Engine difficult to shut off.	Ground (stop) wire is disconnected, or switch is defective.	Test and repalce as required.		
1 -				
1 -	switch is defective. Overheating due to incorrect spark	Test and repalce as required. Clean and regap to 0.6~0.7 mm.		
to shut off. Cutting attach-	Switch is defective. Overheating due to incorrect spark plug.	Test and repalce as required. Clean and regap to 0.6~0.7 mm. Correct plug: NGK, BMR6A.		
to shut off.	Switch is defective. Overheating due to incorrect spark plug. Overheated engine.	Test and repalce as required. Clean and regap to 0.6~0.7 mm. Correct plug: NGK, BMR6A. Idle engine until cool.		
Cutting attachment rotates at	Switch is defective. Overheating due to incorrect spark plug. Overheated engine. Engine idle too high. Broken clutch spring or worn clutch	Test and repalce as required. Clean and regap to 0.6~0.7 mm. Correct plug: NGK, BMR6A. Idle engine until cool. Set idle: 2,750 min ⁻¹ (+/-250) Replace spring/shoes as required,		
Cutting attachment rotates at	Switch is defective. Overheating due to incorrect spark plug. Overheated engine. Engine idle too high. Broken clutch spring or worn clutch spring boss.	Clean and regap to 0.6~0.7 mm. Correct plug: NGK, BMR6A. Idle engine until cool. Set idle: 2,750 min ⁻¹ (+/-250) Replace spring/shoes as required, check idle speed. Inspect and re-tighten holders		
Cutting attachment rotates at engine idle.	Overheating due to incorrect spark plug. Overheated engine. Engine idle too high. Broken clutch spring or worn clutch spring boss. Loose attachment holder.	Clean and regap to 0.6~0.7 mm. Correct plug: NGK, BMR6A. Idle engine until cool. Set idle: 2,750 min ⁻¹ (+/-250) Replace spring/shoes as required, check idle speed. Inspect and re-tighten holders securely.		

14 EUROPEAN DISTRIBUTORS LIST

Ref. No.	Country	Name	Address	Tel No.	Fax No.
1	France	Yvan Beal	21, avenue De l'Agriculture, B.P.16 - Zone Industrielle du Brezet, 63014 Clermont- Ferrand Cedex 1	(33) 04 73 91 93 51	(33) 04 73 90 23 11
2	Italy	Fercad S.P.A.	Via Retrone, 49, 36077 - Altavilla Vicentina, Vicenza	(39) 0444 220811	(39) 0444 348986
3	Germany	Iseki Maschinen GmbH	Rudolf-Diesel-Str. 4, 40670 Meerbusch	(49) 02159 5205 0	(49) 02159 520512
4	England	PLM Power Products Ltd.	Unit 5-6, The Shires Industrial Estate, Essington Close, Birmingham Road, Lichfield, Staffs, WS14 9AZ	(44) 01543 414477	(44) 01543 414541
5	ireland	Danfay Ltd.	61D Sallynoggin Road, Dun Laoghaire, Co. Dublin	(353) 1 2859177	(353) 1 2858810
6	Holland	Matracom Int. B.V.	Hogelandseweg 51, 6545 AB Nijmegen	(31) 024 373 1990	(31) 024 373 1765
7	Belgium	Intergarden Import N.V.	Brechtsebaan 284-B 2900 Schoton	(32) 03 652 02 61	(32) 03 652 02 40
8	Switzerland	Solo Motorgeraete AG	Seuzachstrasse 26, CH-8413 Neftenbach	(41) 52 315 1221	(41) 52 315 1004
9	Portugal	Joaquim Verdasca Junior Heads Lda	Apartado 11-2490, Ourem	(351) 249 544540	(3 51) 2 49 544361
10	Greece	Technellas S.A.	92, Athinon Avenue, 104 42 Athens	(30) 1 5193 110	(30) 1 5193 114
11	Finland	Tuonti Jarvela KY	Itkonniemenkatu 11, PB1234 70501 Kuopio	(358) 17 2652 845	(358) 17 2652 801
12	Turkey	Taral Tarim Makina Vo∧lotleri Sanayi A.S.	Gumussuyu Caddesi Hastane Yolu No.1 34020 Topkapi- Maltepe, Istanbul	(90) 212 567 95 50	(90) 212 674 06 79

15 DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY

We hereby declare the Shindaiwa Engine Brushcutter, Model RM35 (C350/CE,C350/DYB361,C350/IMG,T350/CE,T350/VAL)

meets the following respective requirements.

Council Directives:

89/336/EEC as amended

98/37/EC as amended

2000/14/EC as amended

Standard taken:

EN 292 parts 1&2

ISO 11806

CISPR 12

Measured sound power level: 114dB(A)

Guaranteed sound power level: 116dB(A)

Technical documentaition is kept by:

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Engineering Research and Development DIV.

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T. Yoshitomi

DIV. Manager

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Hiroshima, 731—3167, Japan

TEL:81-82-849-2206 FAX:81-82-849-2481

DECLARATION OF CONFORMITY

We hereby declare the Shindaiwa Engine Brushcutter, Model RM45 (B450/CE,B450/DYB463,B450/IMG,T450/CE,T450/VAL)

meets the following respective requirements.

Council Directives:

89/336/EEC as amended 98/37/EC as amended

2000/14/EC as amended

Standard taken:

EN 292 parts 1&2

ISO 11806

CISPR 12

Measured sound power level: 115dB(A)

Guaranteed sound power level: 116dB(A)

Technical documentation is kept by:

K. Maeda DIV, Manager

Engineering Research and Development DIV.

Shindaiwa Kogyo Co., Ltd.

Head office: 6-2-11, Ozuka—Nishi, Asaminami—Ku, Hiroshima, 731—3167, Japan

TEL:81-82-849-2003 , FAX:81-82-849-2482

T. Yoshitomi

2002-12-10

DIV. Manager

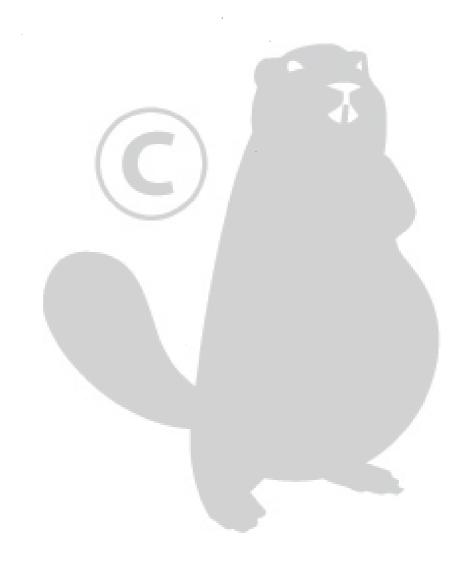
Quality Assurance DIV.

Shindaiwa Kogyo Co., Ltd.

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Hiroshima, 731-3167, Japan

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Shindaiwa Kogyo Co.,Ltd.