



SHINDAIWA OWNER'S/OPERATOR'S MANUAL
SPLITBOOM ATTACHMENT
SBA-P24



shindaiwa

Part Number 65015-94310
Rev. 02/05



WARNING!

Minimize the risk of injury to yourself and others!

Always wear eye and hearing protection when operating this unit.

Read this manual and the manual provided with the Shindaiwa Multipurpose Engine and familiarize yourself with its contents.

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

Keep this manual available at all times so that it may be referred to if questions arise regarding this unit's use.

This machine is designed for cutting branches with the Shindaiwa Multipurpose Engine.

Do not use this machine for other purposes.



Introduction

The Shindaiwa SBA-P24 Splitboom Attachment is designed and built to deliver superior performance and reliability without compromise to quality, comfort, safety or durability.

As an owner/operator, you'll soon discover for yourself why Shindaiwa is simply in a class by itself!

The procedures described in this manual are intended to help you get the most from your machine as well as to protect you and others from harm. These procedures are guidelines for safe operation under most conditions, and are not intended to replace any safety rules and/or laws that may be in force in your area.

If you have questions regarding your power tool, or if you do not understand something in this manual, your Shindaiwa dealer will be glad to assist you.

IMPORTANT!

The information contained in these instructions describes units available at the time of publication. While every attempt has been made to provide the latest information about your Shindaiwa product, there may be some differences between your SBA-P24 and what is described here. Shindaiwa Inc. reserves the right to make changes to products without prior notice and without obligation to make alterations to units previously manufactured.

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Attention Statements

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



DANGER!

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



WARNING!

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

CAUTION!

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

IMPORTANT!

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

NOTE:

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

Safety Precautions



DANGER!



THE SPLITBOOM ATTACHMENT IS NOT INSULATED AGAINST ELECTRICAL SHOCK! Approaching or contacting electrical line with the pruner could cause death or serious injury. Keep the attachment at least 10 meters away from electrical lines or branches that contact electrical lines.

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



WARNING!

Do not make unauthorized modifications to this unit.

NOTE:

For specific maintenance and safety information for your Shindaiwa Multipurpose Engine, consult the owner's manual provided with that unit. If it has been misplaced, contact a Shindaiwa Dealer for a replacement.

Warning Labels

Warning labels affixed to the machine are as follows:



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



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



Wear nonslip heavy-duty work gloves to improve your grip on this unit. Wear sturdy footwear with nonslip soles to provide good footing. Steel-toe safety boots are recommended. Wear snug-fitting clothes that also permit freedom of movement.



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



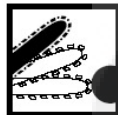
Keep bystanders at least 15 meters away from the operating pruner to reduce the risk of being struck by falling objects or thrown debris.



Never cut off branches over your head. The cut-off branches may hit you and cause serious injury.



Never operate the pruner tool at an angle greater than 60° in order to reduce the risk of being struck by falling objects during operation.



Beware of kickback! Kickback can occur whenever the tip of the guide bar touches an object while the saw is operating.

Kickback may force the bar up and back toward the operator with lightning-like speed!



Beware of pinching.

Pinching the saw along the tip of the guide bar may force the bar back rapidly toward the operator. Pinching can occur whenever wood closes in around the moving chain.



Never touch the saw chain when starting the engine and while operating this machine.



Chain of fill/oil pump

Kickback and Pinching Safety Precautions

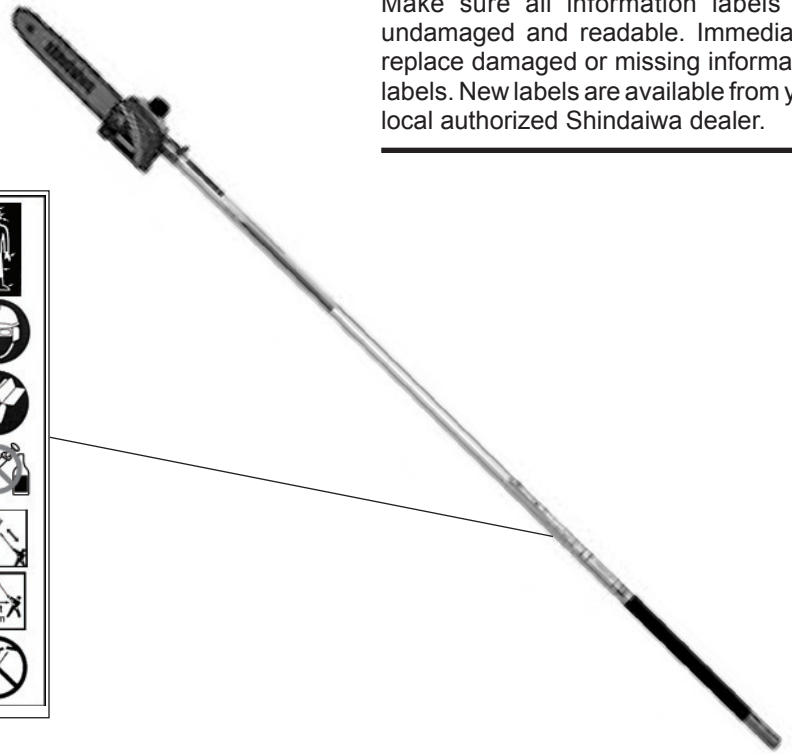


WARNING!

Both kickback and pinching may cause you to lose control of the pole pruner tool which could result in serious personal injury. Do not rely exclusively on the safety device built into the pruner! You must take several steps to keep your jobs free from accident or injury:

1. Understand kickback and pinching! You can reduce or eliminate the element of surprise. Sudden surprises contributes to accidents.
2. Keep a firm grip on the pole pruner with both hands whenever the engine is running. A firm grip will help you reduce the effects of kickback and pinching as well as maintain control of the machine.
3. Make sure the area in which you are cutting is free from obstructions. Do not let the nose of the guide bar contact a log, branch, or any other obstructions which could be hit while you operate the pole pruner tool.
4. Cut at high engine speeds.
5. Follow the manufacturer's instructions for sharpening and maintaining the chain.
6. Use only the replacement bar and chain or equivalent as specified by the manufacturer.

Safety Labels



IMPORTANT!

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

Operating Precautions

- This Shindaiwa Splitboom Attachment SBA-P24 is specifically designed for use with a Shindaiwa Multipurpose Engine. Installation and/or use on any other model, brand, or type of power tool is not approved by Shindaiwa. Attempts to use on non-approved models can damage the equipment and cause accidents, serious injury, or death. Never permit a person without training or instruction to operate this unit.
- Make sure the chain and sprocket are correctly adjusted before operating the cutter. **Never attempt chain adjustment with the engine running!**
- Never use a cracked or warped guide bar: replace it with a serviceable part and make sure it fits properly.
- 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.



WARNING!

- For the details of filling fuel, consult the owner's manual that was provided with the Multipurpose Engine. If it has been misplaced contact your Shindaiwa Dealer for a replacement.
- 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 effect your ability or judgment.
- When cutting a branch that is under tension, be alert for spring-back so that you will not be struck by the moving branch.
- Stop the unit immediately if it suddenly begins to vibrate or shake. Inspect for broken, missing or improperly installed parts or attachments.
- 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.
- Before starting the engine, make sure the saw chain is not contacting anything.

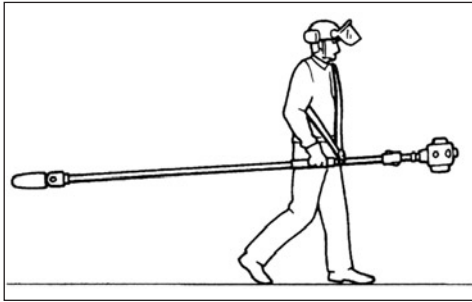
- Make sure there is always good ventilation when operating the pruner. Fumes from engine exhaust can cause serious injury or death. **Never run the engine indoors!**
- Make sure there are no missing or loose fasteners, and that the stop switch and throttle controls are working properly.
- Make sure the chain cover is in place when transporting and storing the pruner.
- When carrying the Shindaiwa Multipurpose Engine with the pole pruner tool, the chain should be pointing backward.
- Never transport the pruner or set it down with the engine running. An engine that's running could be accidentally accelerated causing the chain to rotate.
- The unit should be free of fuel leaks before operating.
- Never smoke or light fires near the pruner. Keep the pruner away from excessive heat. Engine fuel is very flammable and fire could lead to serious personal injury or property damage.

Operating Precautions

(Continued)

CAUTION!

- Always maintain this pole pruner tool according to the owner's manual and follow the recommended scheduled maintenance.
- Never modify or disable any of the unit's safety devices.
- Always use genuine Shindaiwa parts and accessories when repairing or maintaining this unit.
- Do not make unauthorized modifications or substitutions to the pole pruner.
- When transporting the pruner in a vehicle, tie it down securely to prevent damage and fuel spillage.
- Always clear your work area of trash or hidden debris to help ensure good footing.
- Keep the saw chain sharp and properly adjusted.
- Keep the pruner as clean as possible. Keep it free of loose vegetation, mud, etc.



Operating the Pruner

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

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

Wear nonslip heavy-duty work gloves to improve your grip on the pole pruner handle. Wear snug-fitting clothes that also permits freedom of movement. NEVER wear shorts!

Wear sturdy footwear with nonslip soles to provide good footing. Steel-toed safety boots are recommended.



Never operate the pruner at an angle greater than 60° in order to reduce the risk of being struck by falling objects during operation.

Always operate with both hands firmly gripping the machine

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

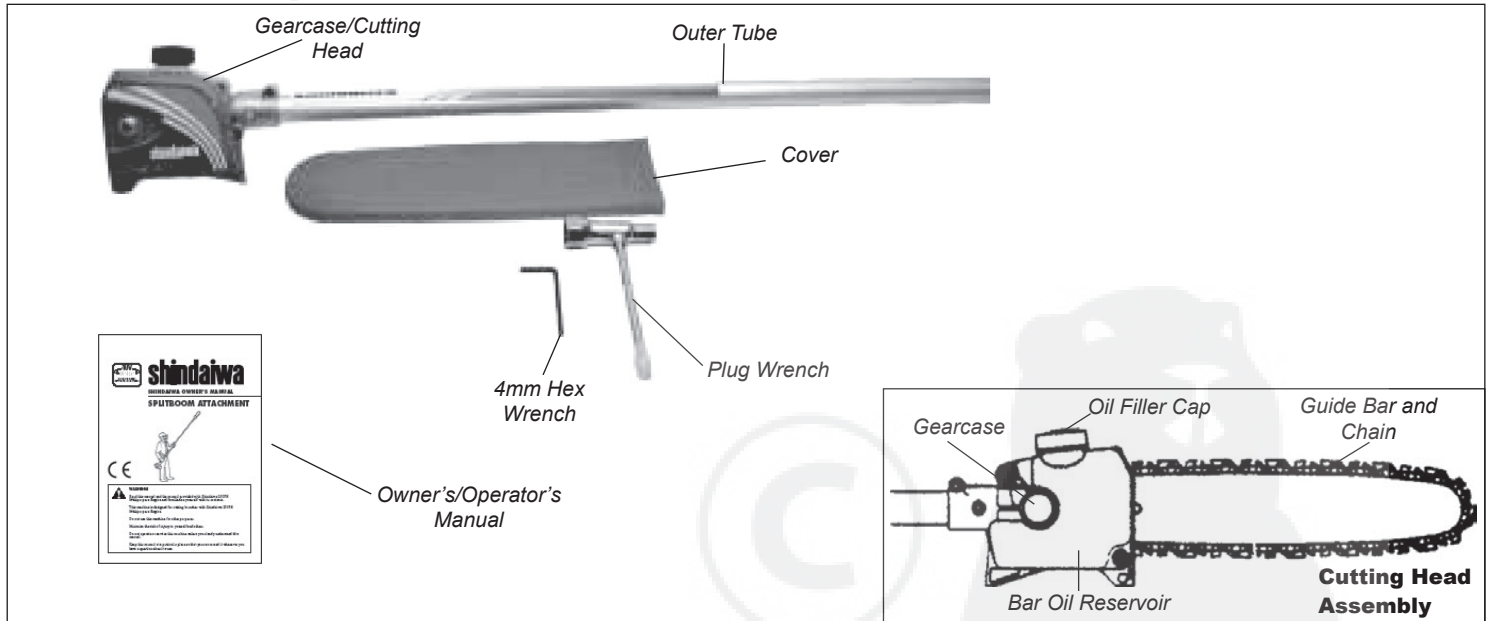
Keep bystanders at least 15 meters away from the operating pruner to reduce the risk of being struck by falling objects or thrown debris.

Technical Specifications

Model Name	SBA-P24/EU
Dry Weight (without bar and chain)	1.5 kg
Dry Weight with 10-in. bar and chain	1.8 kg
Length (folded in transportation position) with 10-in. bar and chain.....	1870 mm
Chain Guide Bar 3/8" pitch043" gauge, 10-inch Micro Lite™
Chain Type	3/8" pitch Micro Lite™, .043" gauge
Sprockets	3/8 inch, fixed spur
Gearcase Ratio.....	1.06 : 1
Chain Speed 23.5 m/sec.....	@ 10,000 min ⁻¹
Chain Lubrication.....	Automatic Adjustable Oiler
Chain Lubricant.....	Shindaiwa Premium Bar and Chain Oil
Oil Tank Capacity.....	100 ml.

Specifications subject to change without notice.

Product Description



Prior To Assmebly

Using figure above as a guide, familiarize yourself with the Shindaiwa SBA-P24 Splitboom Attachment and its various components. Understanding your unit helps ensure top performance, longer service life, and safer operation.

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

- Tool/Gearcase Assembly
- Cover
- Owner's/Operator's Manual
- Tool Kit for routine maintenance

Carefully inspect all components for damage.

IMPORTANT!

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



WARNING!

Do not make unauthorized modifications or alterations to your pole pruner or its components.

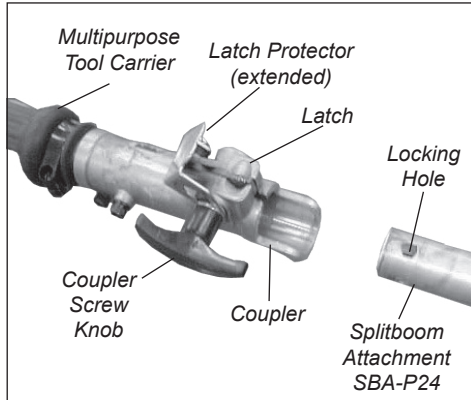
Installing Tool Attachment

1. Place Multipurpose Engine and the Splitboom Attachment SBA-P24 on a clean, flat surface so that both assemblies fit end to end. The powerhead assembly should be facing up, and the Splitboom Attachment SBA-P24 should be positioned with the locking hole in the tube end facing up.

CAUTION!

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

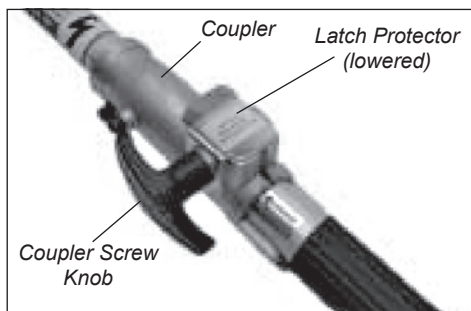
2. Slip off the protective cover from the end of the tool, and loosen the coupler screw knob.
3. Insert the tube into the coupler, with the tool decal facing up, until the line of the decal is flush with the end of the coupler. Twist the tool back and forth until you are sure it snaps in place by the coupler latch.



4. When the two tube halves are locked together, press down on the spring-loaded latch protector and tighten the coupler screw.

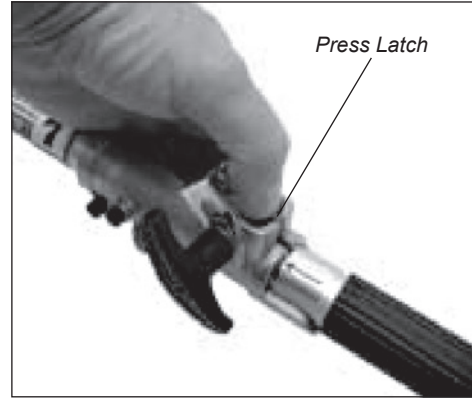
CAUTION!

Make sure there is no gap between the Latch Protector and the Coupler.



Disassembling The Pole Sections

1. Place the unit on a clean, flat surface, loosen the coupler screw. The spring loaded coupler protector should pop up.
2. Press down on the latch with your finger or thumb. This releases the coupler lock.
3. Pull the tube out of the coupler.



Installing and Adjusting the Bar and Chain



WARNING!

Never attempt to install, replace, or adjust the chain while the engine is running.



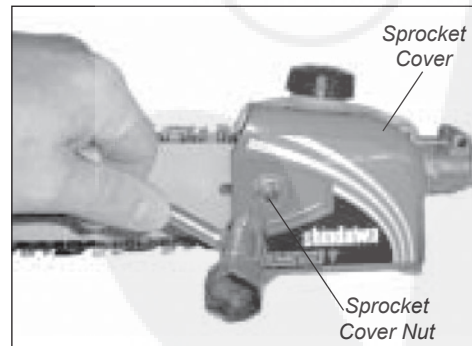
WARNING!

The saw chain is very sharp. Wear gloves to protect your hands when handling.

NOTE:

For the longest chain life, let new or replacement chain loops soak in oil overnight before installation.

1. Using the small end of the plug wrench, remove the sprocket covernut (turn counterclockwise to remove) and remove the sprocket cover.



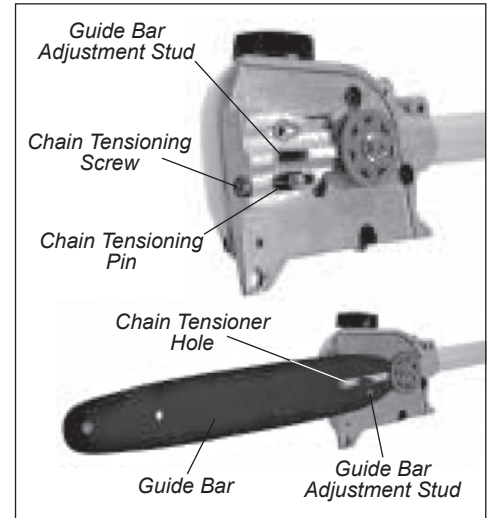
CAUTION!

Failure to align the guide bar and chain tensioning pin can cause serious damage to the sprocket cover, guide bar, chain tensioning pin, and cutting assembly.

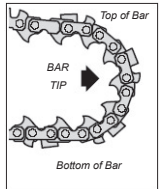
Installing and Adjusting the Bar and Chain

(continued)

2. Place the guide bar over the guide bar adjustment stud on the cutting assembly. Align the chain tensioning pin with the hole in the guide bar.



3. Install the chain loop over the drive links within the guide bar groove, and then align the chain over the drive sprocket. Make sure the cutters are properly oriented as shown in this figure. If the chain installation is difficult or if the chain appears too tight, refer to the section "Adjusting the Chain".



WARNING!

Never operate the pole pruner tool without the sprocket cover installed.

4. Install the sprocket cover over the bar stud. Using finger-pressure only, install the sprocket cover nut.
5. Refer to the next page for chain adjusting procedures.

Adjusting the Chain



WARNING!

Never attempt to install, replace, or adjust the chain with the engine running.



WARNING!

The saw chain is very sharp. Wear gloves to protect your hands when handling.

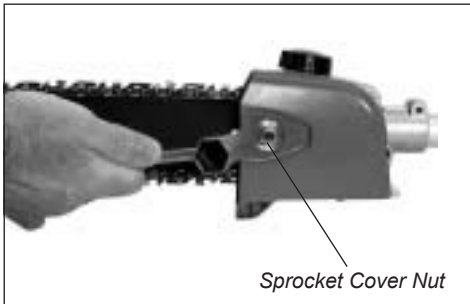
CAUTION!

A loose chain can jump off the guide bar causing damage to the chain and associated equipment. Always make sure the chain is properly adjusted; check more often when you are breaking in a new chain.

IMPORTANT!

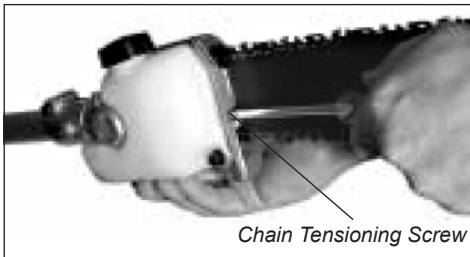
Proper chain adjustment is essential for maximum performance, long chain life, and operator safety. Always inspect chain tension before operating machine.

1. Place Splitboom Attachment SBA-P24 on a clean, flat surface. (For readjustment during operation, shut down the engine, then allow the guide bar and chain to cool before proceeding with the adjustment procedure.)
2. Loosen the sprocket cover nut with the plug wrench.



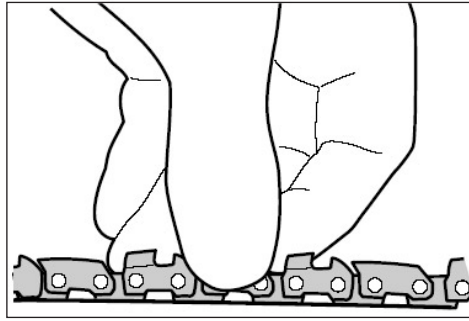
Sprocket Cover Nut

3. Lift the nose of the guide bar while turning the chain tensioning screw.
 - clockwise to tighten the chain
 - counter clockwise to loosen the chain.



Chain Tensioning Screw

4. Pull the chain by hand along the top of the guide bar several times from the engine to the bar's tip. The chain should feel snug but still pull freely.



5. Tighten the sprocket cover nut securely while lifting the tip of the guide bar.
6. Inspect the chain for the correct adjustment (more frequently with a new chain). The chain should feel snug but still pull freely.

Filling the Chain Oiler Reservoir



WARNING!

Never fill the oil reservoir or adjust the oiler with the engine running.

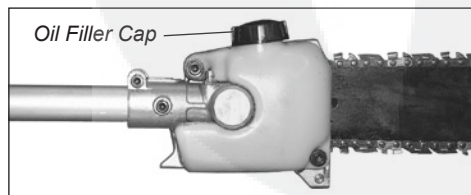
IMPORTANT!

The service life of the chain and guide bar is affected by the quality of the lubricant. Using superior lubricant such as Shindaiwa Bar and Chain Oil will help ensure a long service life. For cold weather operation, mix the bar and chain oil with an equal part of kerosene.

NOTE:

The oil reservoir has a capacity sufficient to provide about 40 minutes of cutting time (when set to deliver the minimum flow rate, or about as long as you'll get from a tank of fuel).

1. Place Splitboom Attachment SBA-P24 on a clean, flat surface with the oil filler cap facing up. Wipe off any debris from the oil cap and from around the oil filler neck.
2. Remove the oil filler cap and fill the reservoir with bar and chain oil, then replace the cap.



Oil Filler Cap

3. Wipe up any spilled oil from the unit before restarting the machine.

Adjusting Oil Flow Rate

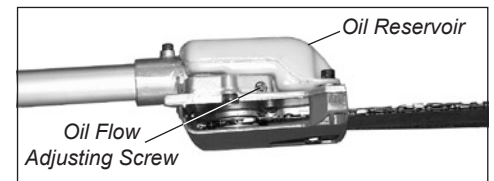
CAUTION!

An increase in bar oil flow rate will speed oil consumption, requiring more frequent checks on the oil reservoir. To ensure sufficient lubrication, it may be necessary to check the oil level more frequently than at fuel tank refills.

The guide bar and chain are lubricated automatically by a pump that operates whenever the chain rotates. The pump is set at the factory to deliver a minimum flow rate, but it can be adjusted in the field. A temporary increase in oil flow is often desirable when cutting things like hardwood or wood with a lot of pitch.

Adjust the pump as follows:

1. Stop the engine and make sure the stop switch is in the OFF position.
2. Place the unit on its side with the oil reservoir up.



Oil Reservoir

Oil Flow Adjusting Screw

CAUTION!

The oil flow adjusting screw must be pressed in slightly in order to turn. Failure to do so could damage the pump and screw.

3. With a screwdriver, push in on the oil flow rate adjusting screw and turn in the desired direction (there are three incremental settings):
 - clockwise—decrease lubrication.
 - counter clockwise—increase lubrication.

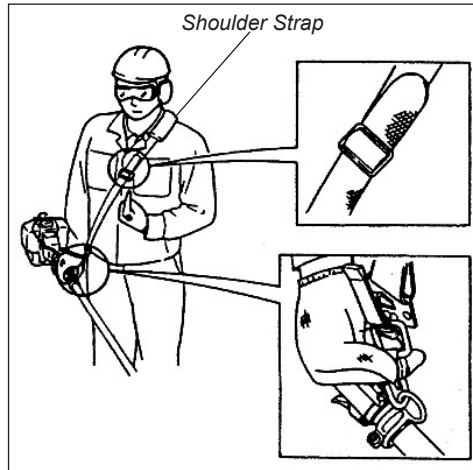
NOTE:

For the details of filling fuel, consult the owner's manual that was provided with Multipurpose Engine. If it has been lost or misplaced, contact a Shindaiwa dealer for a replacement.

Attaching The Shoulder Strap

To Wear the Shoulder Strap

1. Hook the strap hook to the hanger on the outer pipe.
2. Wear the shoulder strap so that the hook stays at your right hand side.
3. Adjust the length of the shoulder strap so that you can hold and operate the machine comfortably.



Emergency Release

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



Using the Pole Pruner

This machine is designed especially for cutting branches. Never use this machine for any other purposes. Never try to cut stones, metals, plastics or any other hard objects.

Using for other purposes than cutting branches may damage the machine or cause serious injury.

Preparations

- Wear suitable protective clothing and equipment; see "Safety Precautions" section.
- Choose the best work position for safety against the falling object (Branch etc)
- Start the engine.
- Put on the strap.

Never stand underneath the branch you are cutting-be wary of falling branches. Note that a branch may spring back at you after it hits the ground.

Cutting sequence

To allow branches a free fall always cut the lower branches first. Prune heavy branches (large diameter) in several controllable pieces.

Working position

Hold the control handle with your right hand, and the shaft with your left hand. Your left arm should be extended to the most comfortable position.

The shaft should always be held at an angle of 60° or less.

NOTE:

Take a rest when you feel fatigue.

Typical applications

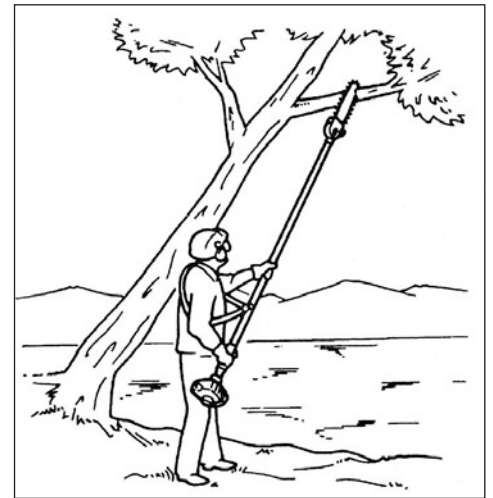
Standard cut:

The most convenient working position is a tool angle of 60°, but any other angle may be used to suit the situation concerned.



Cutting above obstacles:

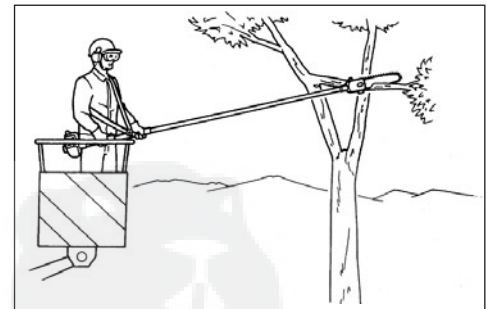
Thanks to the unit's long reach it is possible to prune branches that are overhanging obstacles, such as rivers or lakes. The tool angle in this case depends on the position of the branch.



Cutting on a work platform:

The unit's long reach enables cutting to be performed next to the trunk without the risk of the work platform damaging other branches.

The tool angle in this case depends on the position of the branch.



Using the Pole Pruner

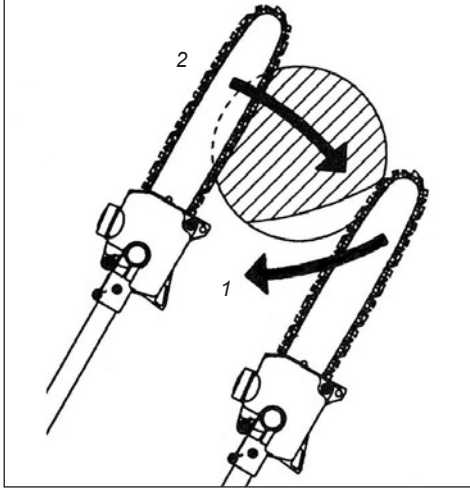
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Working techniques

Relieving cut:

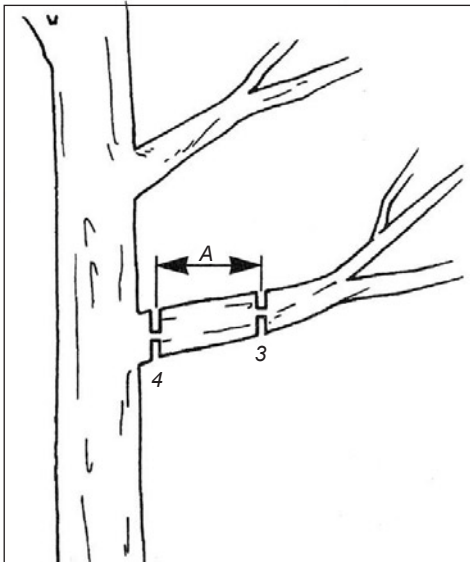
To avoid tearing the bark, kickback or pinching the bar when pruning thick branches, always start by performing a relieving cut (1) on the underside of the branch.

To do this, apply the cutting attachment and pull it across the bottom of the branch as far as the bar nose. Perform the cross-cut (2).



Flush-cutting thick branches:

If branch diameter is more than 10cm, first perform undercut (3) and cross-cut at a distance (A) of about 25cm from the final cut. Then carry out the flush-cut (4), starting with a relieving cut and finishing with a cross-cut.



General Maintenance



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 accessories, cutting attachment, or replacement parts may not operate properly with your unit and may cause damage and lead to personal injury.



WARNING!

Always wear gloves when working around the saw chain.

IMPORTANT!

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



WARNING!

The saw chain is very sharp. Wear gloves to protect your hands when working with or around the saw chain.

Daily Maintenance

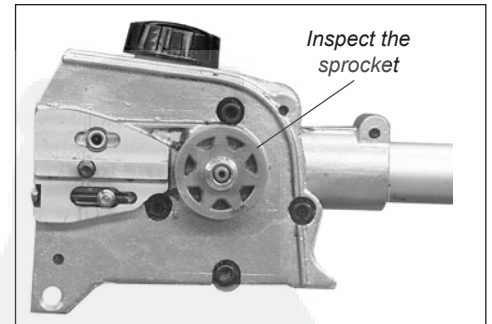
Prior to each work day, perform the following:

- Carefully remove any accumulations of dirt or debris from the muffler and fuel tank. Check cooling air intake area at base of crankcase. Remove all debris. Dirt build-up in these areas can lead to engine overheating, fire, or premature wear.
- Clean any debris or dirt from the cutting attachment.
- Lubricate the cutters before use and after refueling. Check the cutters for damage or incorrect adjustment.
- Check for loose or missing screws or components. Make sure the cutter attachment is securely fastened.
- Check the entire unit for leaking fuel or grease.
- Make sure nuts, bolts, and screws (except carburetor idle speed adjusting screws) are tight.

10/15-Hour Maintenance

(more frequently in dusty or dirty conditions):

- Remove the sprocket cover and inspect the sprocket for excessive dirt, debris, or wear. Remove the guide bar and clean out the guide bar groove. If the sprocket is excessively worn, replace it with a new one.



50-hour Maintenance

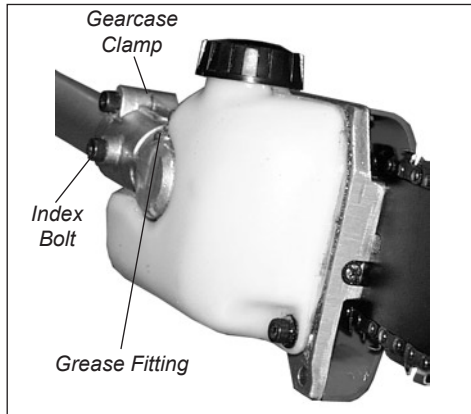
Every 50 hours of operation (more frequently in dusty or dirty conditions):

- Remove and clean the cylinder cover and clean dirt and debris from the cylinder cooling fins.
- **Lubricate the gearcase.** To perform this operation, first remove the gearcase from the outer tube as follows:

CAUTION!

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

1. Loosen the gearcase clamp bolt.
2. Remove the index bolt from the gearcase.
3. Slide the gearcase out of the tube.



Using a lever-type grease gun, pump lithium-base grease (about 10 grams) into the grease fitting until you see old grease being purged from the gearcase, which can be seen in the outer tube cavity. Clean up excess grease, then reassemble the gearcase onto the outer tube.

Long Term Storage

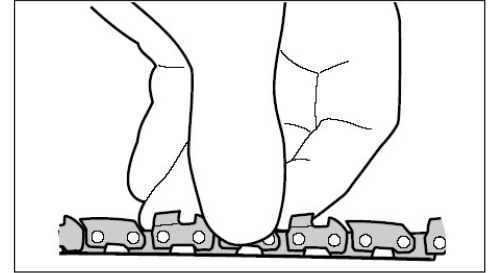
Whenever the unit will not be used for 30 days or longer, use the following procedures to prepare it for storage:

- Clean external parts thoroughly.
- Drain bar oil from oil tank.
- Store the unit in a clean, dust-free area.
- Lubricate gearcase.
- Cover the blade with the blade cover.

Sharpening the Chain

When the cutting edges of the chain cutters become dull, they can be re-sharpened with a few strokes of a file.

In addition, inspect the chain for correct adjustment (more frequently with a new chain). The chain should feel snug but still pull freely.

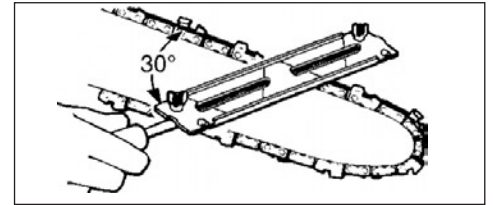


Sharpening Instructions

IMPORTANT!

File all the cutters to the same angle and depth! Unequal filing may cause the saw to vibrate or cut erratically!

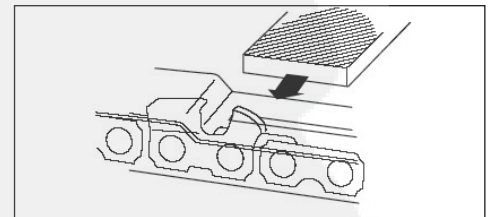
1. Using a 4.5 mm round file, sharpen all cutters to a 30° angle. Make sure that one fifth (20%) of the file's diameter is always held above the cutter's top plate.



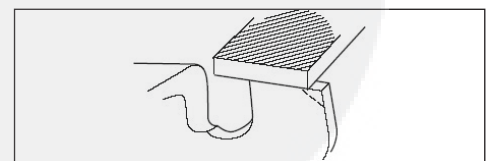
NOTE:

For consistent filing angles, use a filing guide such as Oregon® p/n 31692 or equivalent.

2. After all cutters are sharpened, use a depth gauge joiner (Oregon® p/n 106738 or equivalent) to measure the height of each depth gauge.
3. As required, lower the depth gauges to a height of 0.020 inch. Use a flat file; (Oregon® p/n 12211 or equivalent.)



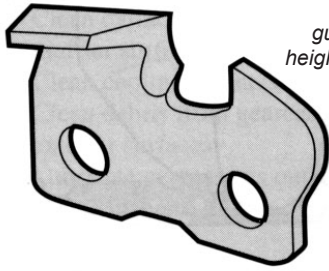
4. After all depth gauges have been adjusted, use a flat file to round each depth gauge leading edge to its original curvature and angle.



Correct Filing Technique

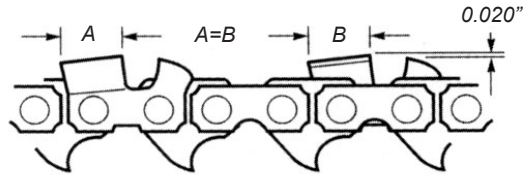
Correct angle on top plate

Slightly protruding hook or point (curve on non-chisel chain)



Top of depth gauge at correct height below top plate

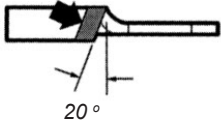
Front of depth gauge rounded



Keep all cutter lengths equal

Filing Problems

Top plate angle less than recommended



Cause

File held at less than recommended angle.

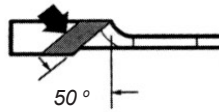
Result

Slow cutting. Requires extra effort to cut.

Remedy

File cutters to recommended angle.

Top plate angle more than recommended



Cause

File held at more than recommended angle.

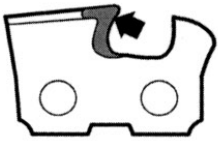
Result

Cutting angle is very sharp but will dull fast. Cutting action rough and erratic.

Remedy

File cutters to recommended angle.

Hook in side plate cutting edge



Cause

File held too low or the file was too small.

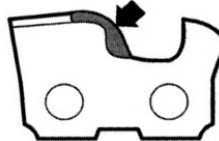
Result

Rough cutting. Chain grabs. Cutters dull quickly or won't hold a cutting edge.

Remedy

File cutters at recommended angle. Check file size.

Backslope on side plate cutting edge



Cause

File held too high or the file was too large.

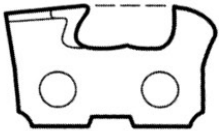
Result

Cutters won't feed into wood. Slow cutting. Must force chain to cut. Causes excessive bottom wear.

Remedy

File cutters at recommended angle. Check file size.

High depth gauge



Cause

Depth gauge never filed.

Result

Slow cutting. Must force chain to cut. Will cause excessive wear on the cutter heel.

Remedy

Lower gauges to recommended settings.

Low depth gauge



Cause

Wrong gauge setting or no gauge used.

Result

Rough cutting. Chain grabs. Saw won't pull chain through wood. Excessive wear on the cutting heel.

Remedy

If depth gauges are too low, the chain is no longer serviceable.

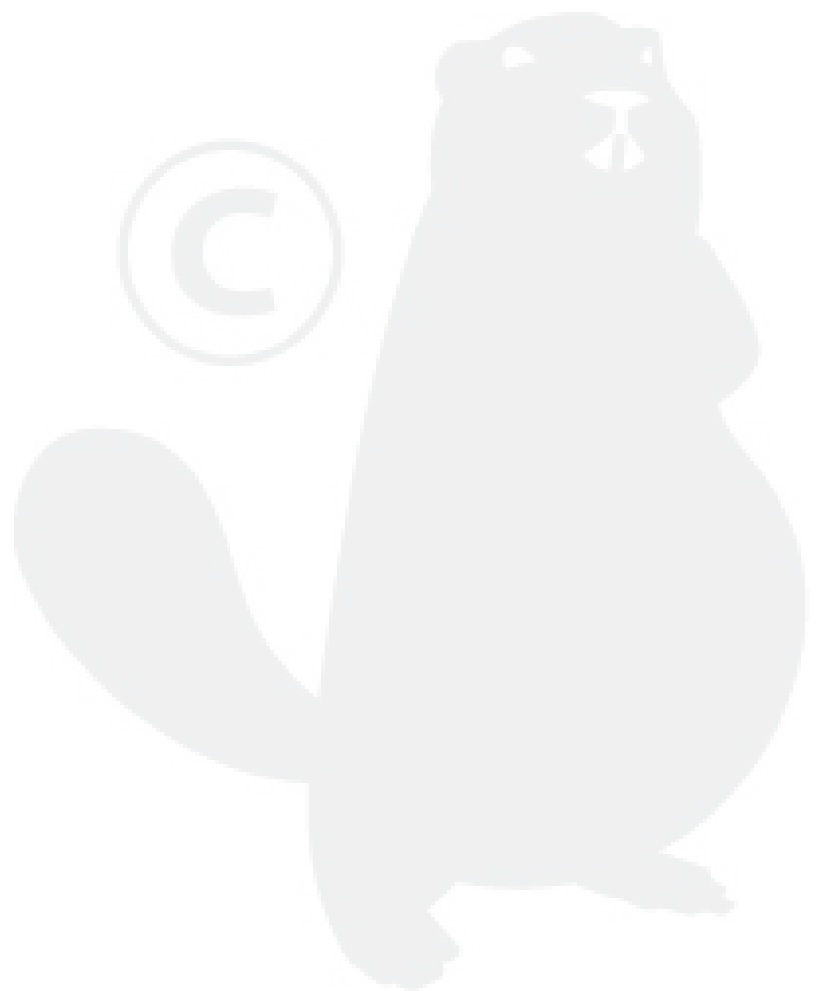
Troubleshooting Guide

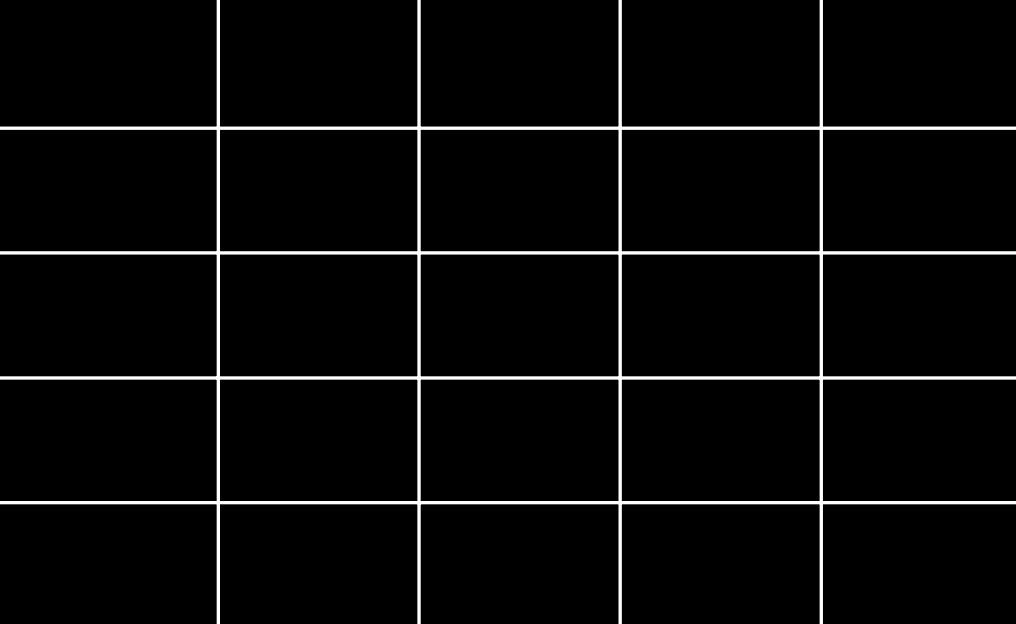
Additional Problems

Cutting attachment rotates at engine idle.	Engine idle too high. Broken clutch spring or worn clutch spring boss. Loose attachment holder.	Set idle: 2,750 min ⁻¹ . Replace spring/shoes as required, check idle speed. Inspect and retighten holders securely.
Excessive Vibration	Warped or damaged attachment. Loose gearcase. Bent main shaft/worn or damaged bushings.	Inspect and replace attachment as required. Tighten gearcase securely. Inspect and replace as necessary.
Attachment will not rotate.	Shaft not installed in powerhead or gearcase. Broken shaft. Damaged gearcase.	Inspect and reinstalled as required. Return unit to dealer. Return unit to dealer.









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