

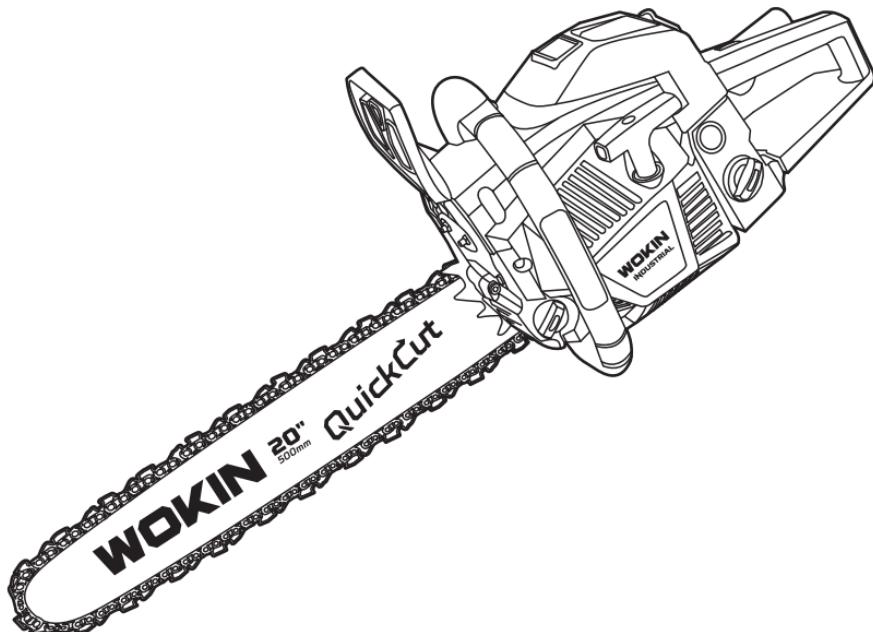
WOKIN

793052

GASOLINE CHAIN SAW INSTRUCTION MANUAL

INDUSTRIAL

2200W
52cc



SAVE THIS MANUAL!

You will need this manual for safety instructions, operating procedures and warranty. Put it and the original sales receipt in a safe dry place for future reference.

CONTECT

SAFETY FIRST

Instructions contained in warnings within this manual marked with a symbol concern critical points which must be taken into consideration to prevent possible serious bodily injury, and for this reason you are requested to read all such instructions carefully and follow them without fail.

NOTES ON TYPES OF WARNINGS IN THE MANUAL

WARNING

This mark indicates instructions which must be followed in order to prevent accidents which could lead to serious bodily injury or death.

IMPORTANT

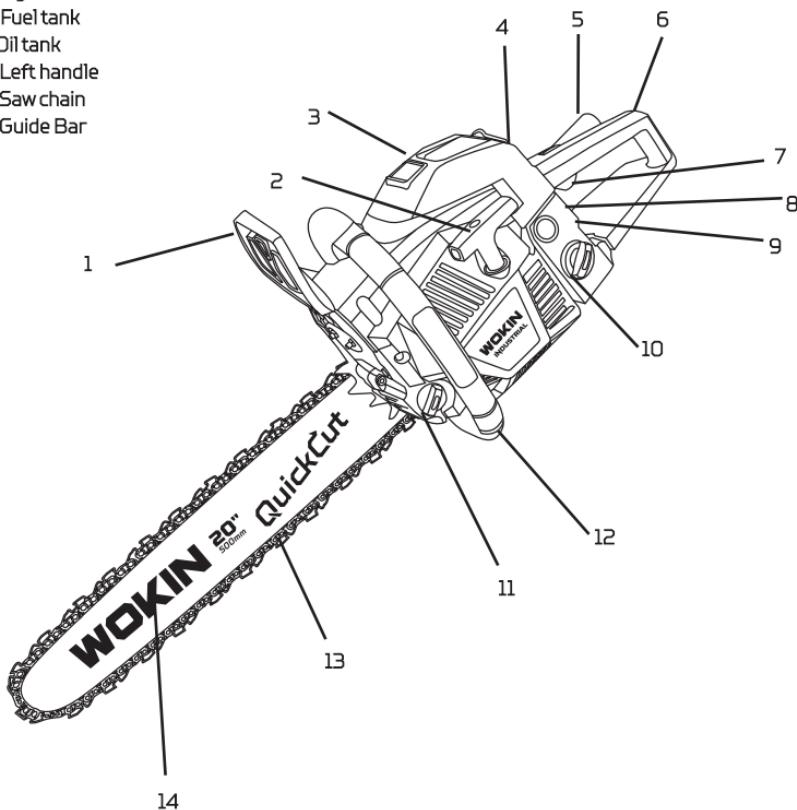
This mark indicates instructions which must be followed, or it leads to mechanical failure, breakdown, or damage.

NOTE

This mark indicates hints of directions useful in the use of the product.

PARTS LOCATION

1. Front guard
2. Starter knob
3. Air cleaner
4. Choke knob
5. Throttle interlock
6. Right handle
7. Throttle lever
8. Throttle lock button
9. Engine switch
10. Fuel tank
11. Oil tank
12. Left handle
13. Saw chain
14. Guide Bar



SPECIFICATIONS

Peak power (w)	2200W (2.9Hp)
Displacement (cm ³)	52cc
Fuel	Mixture (Gasoline 25: Two-cycle oil)
Fuel tank capacity (ml)	550
Chain oil	Motor oil SAE# 10W-30
Oil tank capacity (ml)	260
Oil feeding system	Automatic pump with adjuster
Sprocket (Teeth X Pitch)	11T×0.375"
Guide bar Size (in)	20"
Saw chain	Type: 68LP Pitch (in.): 0.375" Gauge (in.): 0.063"

Specifications are subject to change without notice.

SAFETY SYMBOL DEFINITIONS



THIS SYMBOL INDICATES DANGER OR WARNING



DANGER! BEWARE OF KICKBACK



AVOID BAR NOSE CONTACT.



THE GUARD TIP DEVICE ON YOUR BAR NOSE PREVENTS KICKBACK



READ YOUR PRODUCT LITERATURE.



WEAR HEARING AND EYE PROTECTION DEVICES.



DO NOT USE ONE-HANDED



HOLD SAW PROPERLY WITH BOTH HANDS.



HOLD SAW PROPERLY WITH DIAGONAL LINE ACROSS A SYMBOL
"PROHIBITED" OR TO BE AVOIDED."

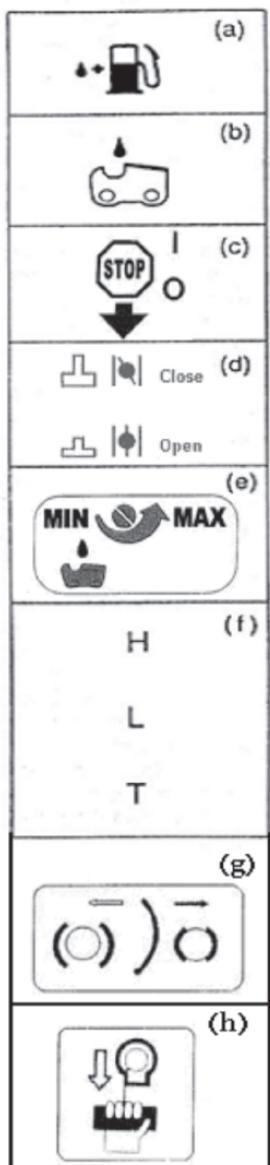
IMPORTANT

If warning seals peel off or become soiled and impossible to read, you should contact the dealer from which you purchased the product to order new seals and affix the new seal(s) in the required location(s).

WARNING

Never remodel the product. We won't warrant the machine, if you use the remodeled product or you don't observe the proper usage written in the manual.

SYMBOLS ON THE MACHINE



For safe operation and maintenance, symbols are carved in relief on the machine. According to these indications, please be careful not to take a mistake.

[a]. The port to refuel the "MIXGASOLINE"
Position: fuel tank cap

[b]. The port to refuel the "CHAIN OIL"
Position: oil cap

[c]. The indication regarding the switch. Flipping the engine switch to the "0"(STOP) direction, the engine stops.
Position: rear-left of the unit

[d]. The indication regarding the choke. Pulling out the choke knob, the choke closes.
Position: rear-right of the unit

[e]. The indication regarding the chain oil adjuster nut. "MIN" direction—the oil flow decrease "MAX" direction—the oil flow increase. Position: bottom of the dutch side

[f]. The position of H-needle The position of L-needle The position of idle adjusting screw Position: rear-left of the unit

[g]. Chain brake: Forward: chain braked Backward: chain released

[h]. Engine hand starter

SAFETY PRECAUTIONS

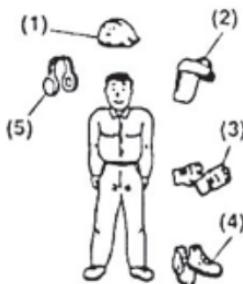
BEFORE USING THE MACHINE



- a. Read this owner's manual carefully to understand how to operate this unit properly.
- b. You should never use the product when under the influence of alcohol, when suffering from exhaustion or lack of sleep, when suffering from drowsiness as a result of having taken cold medicine, or at any other time when a possibility exists that your judgment might be impaired or that you might not be able to operate the machine properly and in a safe manner.
- c. Avoid running the engine Moors. The exhaust gases contain harmful carbon monoxide.
- d. Never use the product under circumstances like those described below.
 - When the ground is slippery or when other conditions exist which might make it not possible to maintain a steady posture.
 - At night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to gain a clear view of the area.
 - During rain storms, during lightning storms, at times of strong or gale-force winds, or at any other times when weather conditions might make it unsafe to use this product.
- e. When using this product for the first time, before beginning actual work, learn to handling it from skilled worker.
- f. Lack of sleep, tiredness, or physical exhaustion results in lower attention spans, and this in turn leads to accidents and injury. Limit the amount of time of using the machine continuously to somewhere around 10 minutes pre session, and take 10-20 minutes of rest between work sessions. Also try to keep the total amount of work performed in a single day under 2 hours or less.
- g. Be sure to keep this manual handy so that you may refer to it later whenever any questions arise.
- h. Always be sure to include this manual when selling, lending, or otherwise transferring the ownership of this product.
- i. Never allow children or anyone unable to fully understand the directions given in this manual to use this product.

WORKING GEAR AND CLOTHING

- a. To reduce the risk of injury, you should wear proper protective apparel equipment as follows:
 - Sturdy and snug-fitting clothing
 - Safety hard hat or helmet
 - Protection goggles or face protector
 - Thick work gloves
 - Non-slip-sole sturdy boots
 - Sound barriers (ear plugs or ear mufflers)
- b. And you should carry with you.
 - Attached tools and files.
 - Properly reserved fuel and chain oil.
 - Things to notify your working area (Rope, warning signs)
 - Whistle (for collaboration or emergency)
 - Hatchet or saw (for removal of obstacles)
- c. Never use the product when wearing pants with loose cuffs, when wearing sandals, or when barefoot.



WARNING CONSIDERING HANDLING OF FUEL

- a. The engine of this product is designed to run on a mixed fuel which contains highly flammable gasoline. Never store cans of fuel or refill the fuel tank in any place where there is a boiler, stove, wood fire, electrical sparks, welding sparks, or any other source of heat or fire which might ignite the fuel.
- b. Smoking while operating the product or refilling its fuel tank is extremely dangerous. Always be sure to keep lit cigarettes away from the product at all times.
- c. When refilling the tank always turn off the engine first and take a careful look around to make sure that there are no sparks or open flames anywhere nearby before refueling.
- d. If any fuel spillage occurs during refueling, use a dry rag to wipe up spills before turning the engine back on again.
- e. After refueling, screw the fuel cap back tightly onto the fuel tank and then carry the product to a spot 3m or more away from where it was refueled before turning on the engine.

NOTE

If fuel or product is ignited, please put out fire with dry powder fire extinguisher

BEFORE STARING ENGINE

- Check working place, the cutting object and cutting direction. If there is obstacle, remove it.
- Never start cutting until you have a clear work area, secure footing and a planned retreat path from the falling tree.
- Use caution and keep bystanders and animals out of the working area whose diameter is 2.5 times of the cutting object.
- Inspect the machine for worn, loose, or damaged parts. Never operate the machine that is damaged, improperly adjusted, or is not completely and securely assembled. Make sure that the saw chain stops moving when the throttle control trigger is released.



WHEN STARTING THE ENGINE



- Always hold the machine firmly with both hands when the engine is running.
- Use a firm grip with thumb and fingers encircling the handles.
- Keep all parts of your body away from the machine when the engine is running.
- Before starting the engine, make sure the saw chain is not contacting anything.

OPERATION



- Keep the handles dry, clean and free of oil or fuel mixture.
- Never touch the muffler, spark plug or other metallic parts of the engine while the engine is in operation or immediately after stopping the engine. Doing so could result in serious burns or electrical shock.
- Use extreme caution when cutting small size brush and saplings because slender material may catch the saw chain and be whipped toward you or pull you off balance.
- When cutting a limb that is under tension, be alert for spring back so that you will not be struck when the tension in the wood fibers is released.
- Check the tree for dead branches that could fall during the felling operation.
- Always shut off the engine before setting it down.

KICKBACK SAFETY PRECAUTIONS

WARNING

Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a lightning-fast reverse reaction, kicking the guide bar up and back toward the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back toward the operator. Either of these reactions may cause you to lose control of the saw, which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw. As a chain saw user, you should take several steps to keep your cutting jobs free from accident or injury.

- With a basic understanding of kickback, you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents;
- Keep a good firm grip on the saw with both hands, the right hand on the rear handle and the left hand on the front handle, when the engine is running. Use a firm grip with thumbs and fingers encircling the chain saw handles. A firm grip will help you reduce kickback and maintain control of the saw. Don't let go;
- Make sure that 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 obstruction that could be hit while you are operating the saw;
- Cut at high engine speeds;
- Do not overreach or cut above shoulder height;
- Follow the manufacturer's sharpening and maintenance instructions for the saw chain;
- Only use replacement bars and chains specified by the manufacturer or the equivalent.

MAINTENANCE

In order to maintain your product in proper working order, perform the maintenance and checking operations described in the manual at regular intervals.

Always be sure to turn off the engine before performing any maintenance or checking procedures.



⚠ WARNING

The metallic parts reach high temperatures immediately after stopping the engine. Leave all maintenance other than the items listed in the Owner's Manual to your competent servicing dealer.

TRANSPORTING THE CHAINSAW

⚠ WARNING

Always stop the engine before putting a chainsaw down or carrying it. Carrying a chainsaw with the engine running is extremely dangerous. During operation, the powerhead muffler and the material around it reach extremely high temperatures. Avoid touching the hot muffler, you could receive serious burns.

When carrying your saw by hand, the engine must be stopped and the saw must be in the proper position. Grip the front handle and place the muffler away from the body. When carrying your saw, the bar should be behind you. When transporting in a vehicle, keep chain and bar covered with the chain guard. Properly secure your saw to prevent turnover, fuel spillage and damage to the saw.

STORAGE

⚠ WARNING

Stop engine and allow it to cool, and secure the unit before storing or transporting in a vehicle.

- Store unit and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
- Store unit with all guards in place. Position so that any sharp object cannot accidentally cause injury to passersby. Store the unit out of reach of children.
- Before storing, drain all fuel from the unit. Start engine and allow to run until it stops. Clean the unit before storing.
- Pay particular attention to the air intake area, keeping it free of debris. Use a mild detergent and sponge to clean the plastic surfaces.
- Do not store the unit or fuel in a dosed area where fuel vapors can reach sparks or an open flame from hot water heaters, electric motors or switches, furnaces, etc.
- Store in a dry area out of the reach of children.

NOTE: It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose, or fuel tank during storage. Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to fuel mixture separation and formation of acids during storage. Acidic gas can damage the engine.

OTHER SAFETY PRECAUTIONS

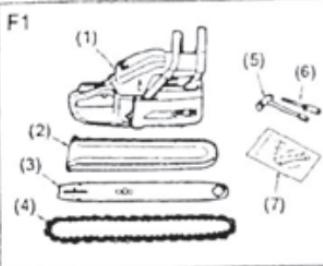
▲ WARNING

Do not operate a chain saw with one hand! Serious injury to the operator, helpers, bystanders, or any combination of these persons may result from one-handed operation. A chain saw is intended for two-handed use.

- Fatigue causes carelessness. Be more cautious before rest periods and before the end of your shift. Do not operate a chain saw when you are fatigued.
- Personal protective clothing required by your safety organizations, government regulations, or your employer should be used; otherwise, snug fitting clothing, protective eyewear, safety footwear and hand, leg and hearing protection should be worn. Note: Personal protective clothing should meet the requirements of applicable Standards.
- Use safety footwear, snug-fitting clothing; protective gloves; and eye, hearing, and head protection devices.
- Use caution when handling fuel. Move the chain saw at least 10 feet (3 m) from the fueling point before starting the engine.
- Do not allow other persons to be near the chain saw when starting or cutting with the chain saw. Keep bystanders and animals out of the work area.
- Do not start cutting until you have a clear work area, secure footing, and a planned retreat path from the falling tree.
- Keep all parts of your body away from the saw chain when the engine is running.
- Before you start the engine, make sure that the saw chain is not contacting anything.
- Carry the chain saw with the engine stopped, the guide bar and saw chain to the rear, and the muffler away from your body.
- Do not operate a chain saw that is damaged, improperly adjusted, or not completely and securely assembled. Be sure that the saw chain stops moving when the throttle control trigger is released.
- Shut off the engine before setting the chain saw down.
- Before fueling, servicing, or transporting your chain saw, switch off the engine. To help prevent fire, restart your chain saw at least 3 m (10 ft) from the fueling area.
- Use extreme caution when cutting small-size brush and saplings because slender material may catch the saw chain and be whipped toward you or pull you off balance.
- When cutting a limb that is under tension, be alert for springback so that you will not be struck when the tension in the wood fibers is released.
- Keep the handles dry, clean, and free of oil or fuel mixture.
- Operate the chain saw only in well-ventilated areas.
- Do not operate a chain saw in a tree unless you have been specifically trained to do so.
- All chain saw service, other than the items listed in the instruction manual, should be performed by competent chain saw service personnel. [For example, if improper tools are used to remove the flywheel or if an improper tool is used to hold the flywheel in order to remove the clutch, structural damage to the flywheel could occur and subsequently could cause the flywheel to burst].
- When transporting your chain saw, use the appropriate guide-bar scabbard.
- When using a chain saw, a fire extinguisher should be available.
- When felling, keep at least 2 tree lengths between yourself and your fellow workers.
- Plan your work, assure yourself of an obstacle-free work area and, in the case of felling, of at least one escape path from the falling tree.
- Follow instructions in your operator's manual for starting the chain saw and control the chain saw with a firm grip on both handles when it is in operation. Keep handles dry, clean and free of oil. A chain saw should never be carried with the engine running.
- When transporting your chain saw, use the appropriate transportation covers that should be available for the guide bar and saw chain.
- Never operate a chain saw that is damaged or improperly adjusted or that is not completely and securely assembled. Be sure that the saw chain stops moving when the throttle control trigger is released. Never adjust the guide bar or saw chain when the engine is operating.

- Beware of carbon monoxide poisoning. Operate the chain saw in well ventilated areas only.
- Do not attempt a pruning or limbing operation in a standing tree unless specifically trained to do so.
- Guard against kickback. Kickback is the upward motion of the guide bar that occurs when the saw chain, at the nose of the guide bar, contacts an object. Kickback can lead to dangerous loss of control of the chain saw.
- A chain saw is intended for two-handed use. Serious injury to the operator, helpers and/or bystanders may result from one-handed operation.
- When carrying a chain saw with the engine running, engage the chain brake.
- Allow your chain saw to cool before refueling, and do not smoke.
- Don't allow other persons or animals close to a running chain saw or close to where a tree is being felled.
- Use extreme caution when cutting small size brush and saplings because slender material may catch the saw chain and be whipped toward you.
- When cutting a limb that is under tension be alert for spring-back.

INSTALLING GUIDE BAR AND SAW CHAIN



A standard saw unit package contains the items as illustrated, [F1]

- (1) Power unit
- (2) Bar protector
- (3) Guide bar
- (4) Saw chain
- (5) Plug wrench
- (6) Screwdriver for carburetor adjustment
- (7) Spike and mounting screws

Open the box and install the guide bar and the saw chain on the power unit as follows:

WARNING

The saw chain has very sharp edges. Wear work gloves to protect hands.

Disengage the chain brake:

1. Pull the hand guard towards the front handle to check that the chain brake is not on.
2. Loosen the nuts and remove the chain cover.
3. Fit the chain start at the bar nose.
4. Install the attached spike to the power unit. Make sure the cutting edges on bp of bar must point to right
5. Place the chain over sprocket at the same time while fitting the saw chain around the guide bar, mount the guide bar to the power unit. Adjust the position of chain tension nut on the than cover to the lower hole of guide bar. [F2]

(8) Hole
(9) Tension nut
(10) Chain cover

NOTE

Pay attention to the correct direction of the saw chain. [F3]

- (1) Moving Direction

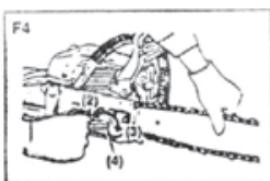
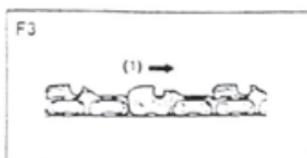
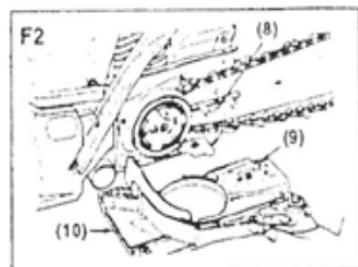
1. Fit the chain cover to the power unit and fasten the nuts to finger tightness
2. While holding up the tip of the bar, adjust the chain tension by turning the tension screw until the tie straps just touch the bottom side of the bar rail. [F4]

3. Tighten the nuts securely with the bar tip held up (12-1514m). Then check the chain for smooth rotation and proper tension while moving it by hand. If necessary, readjust with the chain cover loose.
4. Tighten the tension screw

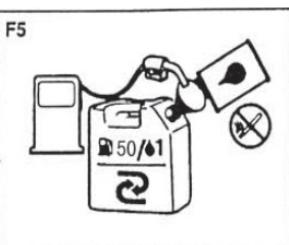
(2) Loosen
(3) tighten
(4) Tension screw

NOTE

A new chain will wand its length in the beginning of use Check and readjust the tension frequently as a loose chain can easily derail or cause rapid wear of itself and the guide bar.



FUEL



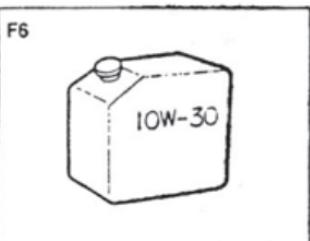
Mix a regular grade gasoline (leaded or unleaded, alcohol-free) and a quality-proven motor oil for cooled 2 cycle engines.

Recommended mixing ratio:

Cassano, 01

25:1

CHAIN OIL



WARNING

Keep open flames away from the area where fuel is handled or stored. Mix and store fuel only in an approved gasoline container.

NOTE

Most engine troubles are caused, directly or indirectly, by the fuel used on the machine. Take special care not to mix a motor oil for 4 cycle engines.

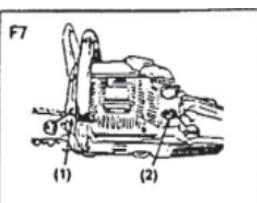
Use motor oil SAE #10W-30 all year round or SAE #30-#40 in summer and SAE #20 in winter.

NOTE

Do not use wasted or regenerated oil that can cause damage to the oil pump.

OPERATING ENGINE

STARTING ENGINE



1. Fill fuel and chain oil tanks respectively, and tighten the caps securely. [F7]

2. Put the switch to "I" position. [F8]

3. While holding the throttle lever together with the throttle interlock. Push in the side throttle lock button and release the throttle lever to hold it at the starting position. [F9]

[1] Chain oil

[2] Fuel

[3] Switch

[4] Throttle lock button

[5] Throttle lever

[6] Throttle interlock

[7] Choke knob

4. Pull out the choke knob to the dosed position. [F10]

NOTE

When restarting immediately after stopping the engine, leave the choke knob at the open position.

5. While holding the saw unit securely on the ground, pull the starter rope vigorously [F11]

⚠ WARNING

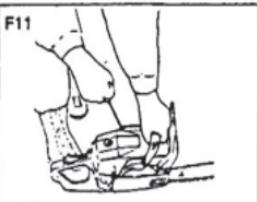
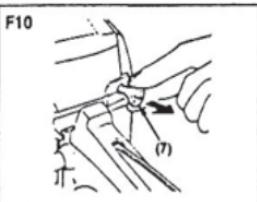
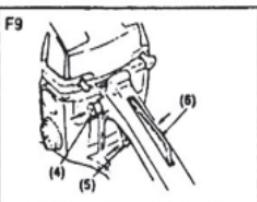
Do not start the engine while hanging the chain saw with a hand. The saw chain may touch your body. It's very dangerous.

6. When engine has ignited first, push in the choke knob and pull the starter again to start the engine.

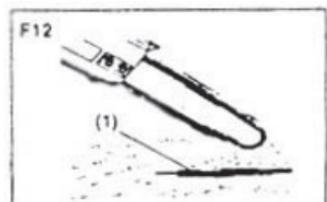
7. Allow the engine to warm up with the throttle lever pulled slightly.

⚠ WARNING

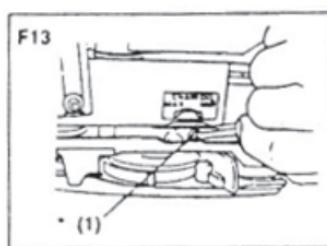
Keep dear of the saw chain as It will start rotating upon starting of will start rotating upon starting of engine.



CHECKING OIL SUPPLY



After starting the engine, run the chain at medium speed and see if chain oil is scattered off as shown in the figure. [F12]
 (1) Chain oil

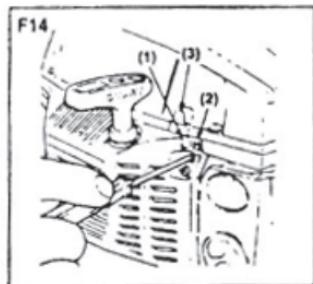


The chain oil flow can be changed by inserting a screwdriver in the hole on bottom of the dutch side. Adjust according to your work conditions. [F13]
 (1) Adjuster

NOTE

The oil tank should become nearly empty by the time fuel is used up. Be sure to refill the oil tank every time when refueling the unit.

ADJUSTING CARBURETOR (F14)



The carburetor is set at the factory to guarantee an optimum fuel-air mixture under all operating conditions, but may require fine tuning due to change in operating conditions.

Before adjusting the carburetor, ensure the air/fuel filters are clean or replace it if necessary.

When adjusting, take the following steps:

NOTE

Be sure to adjust the carburetor with the bar chain attached

1. Carefully screw the needles H and L down onto its seat. Never force. Then set them back to the initial number of turns as shown below.

H needle: 1%

L needle: 1%

2. Start and warm up the engine at half-throttle.

3. Turn needle L slowly with clockwise to find a position where idling speed is maximum. Then set the screw back a quarter (1/4) turn counterclockwise.

4. Turn the idle adjusting screw [T] counterclockwise until chain stops running. If idling speed is too slow, turn the screw clockwise.

5. Make a test cut and adjust the H needle for best cutting power, advisable not at maximum speed.

(1) L needle

(2) H needle

(3) Idle adjusting screw

CARBURETOR ANTI-FREEZE MECHANISM

Operating the chain saw in temperatures of 0–5°C at times of high humidity may result in ice forming within the carburetor, and this in turn may cause the output power of the engine to be reduced or for the engine to fail to operate smoothly.

This product has accordingly been designed with a ventilation hatch the back of the air cleaner cover to allow warm air to be supplied to the engine and to thereby prevent icing from occurring.

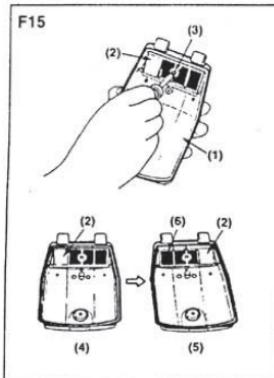
Under normal circumstances the product should be used in normal operating mode, i.e., which it is set at the time of shipment.

However when the possibility exists that icing may occur, the unit should be set to operate in anti-freeze mode before use. [F15]

HOW TO SWITCH BETWEEN OPERATING MODES [F15]

1. Flip the engine switch to turn off the engine.
2. Remove the air cleaner cover from the cylinder cover.
3. Loosen a screw and remove the screen on the back of the air cleaner cover.
4. Reattach the screen right side left so as to the anti-icing plate is on the right. Reinstall the cover.

- [1] Air cleaner cover
- [2] Anti-icing plate
- [3] Screw
- [4] Normal operating mode
- [5] Anti-freeze mode
- [6] Screen



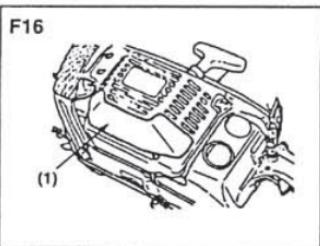
⚠ WARNING

Continuing to use the product in anti-freeze mode even when temperatures have risen and returned to normal may result in the engine failing to start properly or in the engine failing to operate at its normal speed, and for this reason you should always be sure to return the unit to normal operating mode if there is no danger of icing occurring.

When using the saw with the anti-freeze mode, frequently check the screen and keep it clean of saw dust.

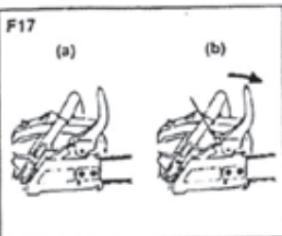
NOTE

When using the unit at times when it is snowing Komatsu Zenoah recommends that you also use a snow protector effective in preventing the air filter from freezing [e.g. the separately-sold Z2881-98610 snow protector]. [F16]



[1] Snow protector

CHAIN BRAKE



This machine is equipped with an automatic brake to stop saw chain rotation upon occurrence of kickback while in saw cutting operation. The brake is automatically operated by inertial force which acts on the weight fitted inside the front guard. This brake can also be operated manually with the front guard turned down to the guide bar. To release brake, pull up the front guard toward the front handle till "click" sound is heard.

CAUTION

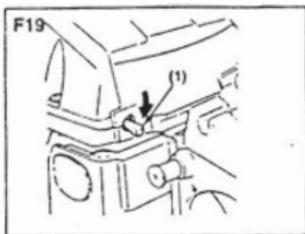
Be sure to confirm brake operation on the daily inspection.

How to confirm:

- [1] Turn off the engine.
- [2] Holding the chain saw horizontally, release your hand from the front handle, hit the tip of the guide bar to a stump or a piece of wood, and confirm brake operation. Operating level varies by bar size. (F18)

In case the brake is not effective, ask our dealer inspection and repairing. The engine, if being kept rotated at high speed with the brake engaged, heats the clutch, causing a trouble. When the brake is operated while in operation, immediately release your fingers from the throttle lever and keep the engine idling.

STOPPING ENGINE



1. Release the throttle lever to allow the engine idling for a few minutes. Put the switch to the "O" (STOP) position. (F19)

(1) Switch

SAWING

⚠ WARNING

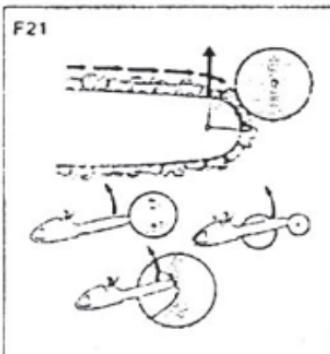
- Before proceeding to your job, read "SAFETY INSTRUCTION" and "SAFETY PRECAUTIONS" sections. It is recommended to first practice sawing easy logs. This also helps you get accustomed to your unit.
- Always follow the safety regulations.
- The chain saw must only be used for cutting wood. It is forbidden to cut other types of material.
- Vibrations and kickback vary with different materials and the requirements of the safety regulations would not be respected.
- Do not use the chain saw as a lever for lifting, moving or splitting objects.
- Do not lock it over fixed stands. It is forbidden to hitch tools or applications that are not specified by the manufacturer.
- It is not necessary to force the saw into the cut. Apply only light pressure while running the engine at full throttle.
- When the saw chain is caught in the cut, do not attempt to pull it out by force, but use a wedge or a lever to open the way.

GUARD AGAINST KICKBACK [F21]

This saw is equipped with a chain brake that will stop the chain in the event of kickback if operating properly. You must check the chain brake operation before each usage by running the saw at full the throttle for 1-2 seconds and pushing the front hand guard forward.

The chain should stop immediately with the engine at full speed, if the chain is slow to stop or does not stop, replace the brake band and clutch drum before use.

It is extremely important that the chain brake be checked for proper operation before each use and that the chain be sharp in order to maintain the kickback safety level of this saw. Removal of the safety devices, inadequate maintenance, or incorrect replacement of the bar or chain may increase the risk of serious personal injury due to kickback.



FELLING A TREE (F22)

1. Decide the felling direction considering the wind, lean of the tree, location of heavy branches, ease of job after felling and other factors.
2. While clearing the area around the tree, arrange a good foothold and retreat path.
3. Make a notch cut one-third of the way into the tree on the felling side.
4. Make a felling cut from the opposite side of the notch and at a level slightly higher than the bottom of the notch.

⚠ WARNING

When you fell a tree, be sure to warn your neighboring workers of the danger.

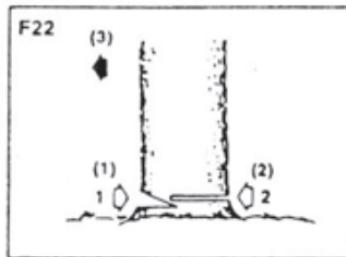
- (1) Notch cut
- (2) Felling cut
- (3) Felling direction Bucking and Limbing

⚠ WARNING

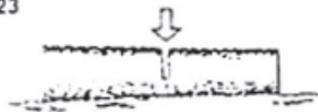
Always ensure your foothold. Do not stand on the log.

Be alert to the rolling over of a cut log. Especially when working on a slope, stand on the uphill side of the log. Follow the instructions in "For Safe Operation" to avoid kickback of the saw.

Before starting work, check the direction of bending force inside the log to be cut. Always finish cutting from the opposite side of bending direction to prevent the guide bar from being caught in the cut.



F23



A Log lying on the ground (F23)

Saw down halfway, then roll the log over and cut from the opposite side

A Log hanging off the ground (F24)

In area A, saw up from the bottom one-third and finish by sawing down from the top. In area B, saw down from the top one-third and finish by sawing up from the bottom.

Cutting Limb of Fallen Tree (F25)

First check to which side the limb is bent. Then make the initial cut from the bent side and finish by sawing from the opposite side.

⚠ WARNING

Be alert to the springing back of a cut limb.

Pruning of Standing Tree (F26)

Cut up from the bottom, finish down from the top.

⚠ WARNING

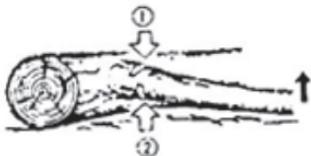
Do not use an unstable foothold or ladder.

Do not overreach.

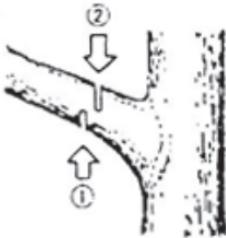
Do not cut above shoulder height

Always use your both hands to grip the saw.

F25

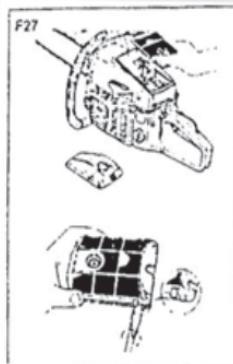


F26



MAINTENANCE

MAINTENANCE AFTER EACH USE

⚠ WARNING

Before cleaning, inspecting or repairing your unit, make sure that engine has stopped and is cool. Disconnect the spark plug to prevent accidental starting.

1. Airfilter

Dust on the cleaner surface can be removed by tapping a corner of the cleaner against a hard surface. To clean dirt in the meshes, split the cleaner into halves and brush in gasoline. When using compressed air, blow from the inside. [F27]

To assemble the cleaner halves, press the rim until it clicks.

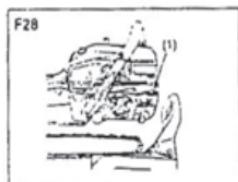
NOTE

When installing the main filter, make sure that the grooves on the filter edge are correctly fit with the projections on the cylinder cover.

2. Oiling port

Dismount the guide bar and check the oiling port for clogging. [F28]

(1) Oiling port



3. Guide bar

When the guide bar is dismounted, remove sawdust in the bar groove and the oiling port [F29]

Grease the nose sprocket from the feeding port on the tip of the bar. [F30]

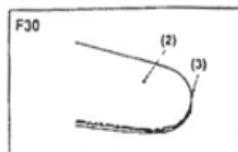
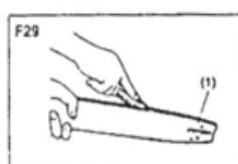
(1) Oiling port

(2) Grease port

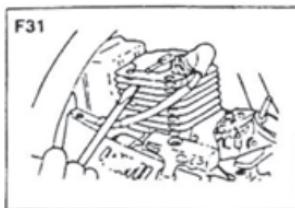
(3) Sprocket

4. Others

Check for fuel leakage and loose fastenings and damage to major parts, especially handle joints and guide bar mounting. If any defects are found, make sure to have them repaired before operation again.



PERIODICAL SERVICE POINTS

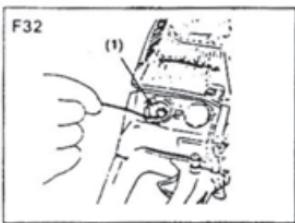


1. Cylinder fins

Dust clogging between the cylinder fins will cause overheating of the engine. Periodically check and clean the cylinder fins after removing the air cleaner and the cylinder cover. When installing the cylinder cover, make sure that switch wires and grommets are positioned correctly in place. (F31)

NOTE

Be sure to block the air intake hole.



2. Fuel filter

(a) Using a wire hook, take out the filter from the filler port (F32)

(1) Fuel filter

(b) Disassemble the filter and wash with gasoline, or replace with new one if needed.

NOTE

After removing the filter, use a pinch to hold the end of the suction pipe. When assembling the filter, take care not to allow filter or dust inside the suction pipe.

3. Oil tank

With a wire hook, take out the oil filter through the filler port and clean in gasoline. When putting the filter back into the tank, make sure that it comes to the front right corner. Also clean off dirt in the tank. (F33)

(2) Oil filter

4. Spark plug (FM)

Clean the electrodes with a wire brush and reset the gap to 0.65 mm as necessary.

5. Sprocket (F35)

Check for cracks and for excessive wear interfering with the chain drive. If the wear is found obviously, replace it with new one. Never fit a new chain on a worn sprocket, or a worn chain on a new sprocket.

(1) Sprocket

(2) Needle bearing

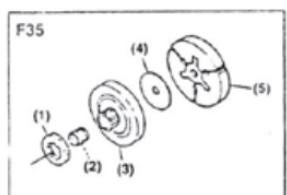
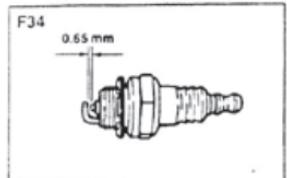
(3) Clutch drum

(4) Spacer

(5) Clutch shoe

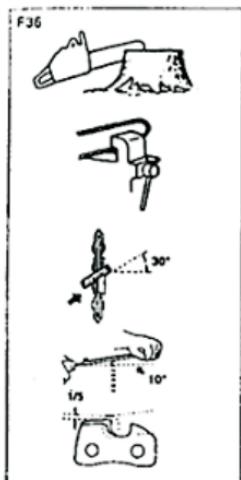
6. Front and Rear dampers

Replace if adhered part is peeled or crack is observed on the rubber part.



MAINTENANCE OF SAW CHAIN AND GUIDE BAR

SAW CHAIN


⚠ WARNING

It is very important for smooth and safe operation to keep the cutters always sharp.

Your cutters need to be sharpened when:

- Sawdust becomes powder-like.
- You need extra force to saw in.
- The cut way does not go straight.
- Vibration increases.
- Fuel consumption increases.

Cutter setting standards:

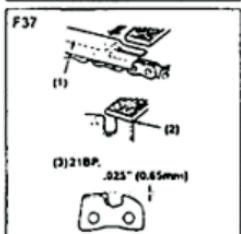
⚠ WARNING

Be sure to wear safety gloves. Before filing:

- Make sure the saw chain is held securely.
- Make sure the engine is stopped.
- Use a round file of proper size for your chain.

Plate your file on the cutter and push straight forward. Keep the file position as illustrated. (F36)

After every cutter has been set, check the depth gauge and file it to the proper level as illustrated. (F37)

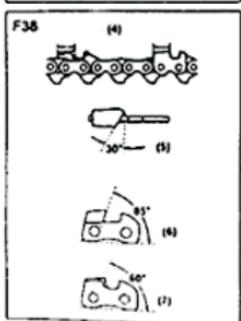

⚠ WARNING

Be sure to round off the front edge to reduce the chance of kickback or tie-strap breakage.

- [1] Appropriate gauge checker
- [2] Make the shoulder round
- [3] Depth gauge standard

Make sure every cutter has the same length and edge angles as illustrated (F38)

- [4] Cutter length
- [5] Filing angle
- [6] Side plate angle
- [7] Top plate cutting angle



GUIDE BAR

Reverse the bar occasionally to prevent partial wear.

The bar rail should always be a square. Check for wear of the bar rail. Apply a ruler to the bar and the outside of a cutter. If a gap is observed between them, the rail is normal. Otherwise, the bar rail is worn. Such a bar needs to be corrected or replaced. (F39)

- (1) Ruler
- (2) Gap
- (3) No gap
- (4) Chain tits

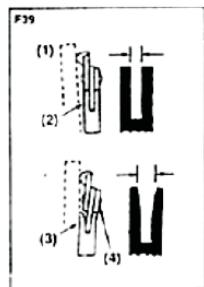
⚠ WARNING

The saw combination has been tested and met the kickback performance requirements of ANSI B175.1-2000 and CSA Standard Z62.3.

⚠ WARNING

To avoid any hazards, **NEVER** use any other saw chain or guide bar on OGAWA machine unless the saw chain has been designated as meeting the ANSI B175.1-2000

kickback performance requirements on this powerhead, or has been designated as low-kickback saw chain in according with ANSI B175.1-2000.



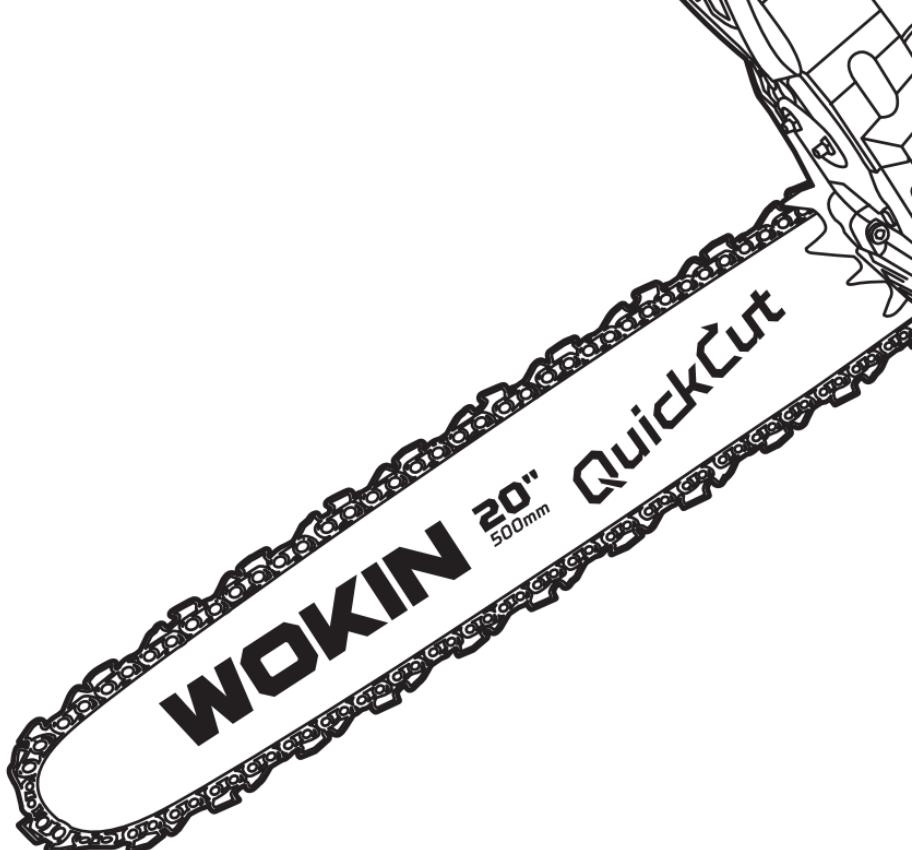
NOTE

Low-kickback saw chain is chain that has met the kickback performance requirements of ANSI B175.1-2000 (American National Standard for Power Tools – Gasoline-Powered Chain Saws – Safety Requirements) when tested on the representative sample of chain saws below 3.8 c.i.d. specified in ANSI B175.1-2000.

⚠ WARNING

Maintain the safety system throughout the life of the product. Hazards may happen if:

- Improper maintenance, or
- Use of nonconforming replacement components, or
- Removal of safety devices



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