



**52CC Chainsaw
with Oregon Chain**

CTCHNSAW52A

USER MANUAL



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Safety Warnings

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.

Different Warning Types

⚠ WARNING	This mark indicates instructions which must be followed in order to prevent accidents which could lead to serious injury or death.
IMPORTANT	This mark indicates instructions which must be followed in order to prevent mechanical failure, breakdown or other damage to the chainsaw or workpiece.
NOTE	This mark indicates hints or directions useful in the use of the chainsaw.

Chainsaw Layout



- | | | | |
|-----------------------|-----------------|---------------------|------------------|
| 1. Front Guard | 2. Starter Knob | 3. Air Filter | 4. Choke Knob |
| 5. Throttle Interlock | 6. Rear Handle | 7. Throttle Trigger | 8. Engine Switch |
| 9. Fuel Tank | 10. Oil Tank | 11. Front Handle | 12. Saw Chain |
| 13. Guide Bar | | | |

Warning Labels on the Chainsaw

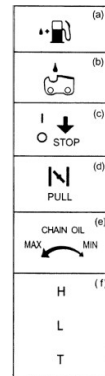
	Read the full owners manual before operating the chainsaw.
	Wear head, eye and ear protection.
	Use the chainsaw with two hands at all times.
	Warning! Kickback danger!
	Warning/Attention!

IMPORTANT If warning seals peel off or become soiled and impossible to read, you should contact a hardware store and request replacement seals that can be used to replace them.

Symbols on the Chainsaw

For safe operation and maintenance, symbols are carved in relief on the unit. According to these identifications, please be careful not to make any mistakes.

- a) Opening to refuel the PETROL MIX
Position: Fuel tank cap.
- b) Opening to refill the CHAIN OIL
Position: Oil cap.
- c) Indicator regarding the switch. Flipping it to O will cause the engine to stop.
Position: Rear-left of the unit.
- d) Indicator regarding the choke. Pull out the choke knob to close.
Position: Rear-right of the unit.
- e) Indicator regarding the chain oil adjuster nut. "Min" decrease oil flow. "Max" increase oil flow.
Position: Bottom of the clutch side.
- f) The position of the H needle, the L needle and the idle adjusting screw.
Position: Rear-left of the unit.



Safety Precautions

Before Use

- Read this owner's manual carefully to understand how to operate this unit properly.
- 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 judgement might be impaired or that you might not be able to operate the machine properly and in a safe manner.
- Avoid running the engine indoors. The exhaust gases contain harmful carbon monoxide.
- Never use the product under circumstances like those described below:
 - x When the ground is slippery or when other conditions exist which might make it not possible to maintain a steady posture
 - x 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.
 - x 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.
 - x When using this product for the first time, before beginning actual work, learn to handle it from skilled worker.
 - x 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 per 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.
 - x Be sure to keep this manual handy so that you may refer to it later whenever any questions arise.
 - x Always be sure to include this manual when selling, lending or otherwise transferring the ownership of the product.
 - x Never allow children or anyone unable to fully understand the directions given in this manual to use this product.

Work Gear and Clothing

- When using the product, you should wear proper clothing and protective equipment as follows.
 - 1) Helmet
 - 2) Protection goggles or face Protector
 - 3) Thick work gloves
 - 4) Non-slip-sole work boots
 - 5) Ear protectors
- You should carry with you.
 - 1) Attached tools and files.
 - 2) Properly reserved fuel and chain oil.
 - 3) Things to notify/secure your working area (Rope, warning signs..)
 - 4) Whistle (for collaboration or emergency)
 - 5) Hatchet or saw (for removal of obstacles)
- Never use the product when wearing pants with loose cuffs, when wearing sandals, or when barefoot.

Handling of Fuel

- 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.
- 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.
- 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 refuelling.
- If any fuel spillage occurs during refuelling, use a dry rag to wipe up spills before turning the engine back on again.
- After refuelling, 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 refuelled before turning on the engine.

Before Starting the 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, which is a diameter of 2.5 times the length 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.

Starting the Engine

- Always hold the machine firmly with both hands whenever 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 in contact with 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 to ensure that you won't be struck when the tension in the wood fibers are released
- Check the tree for dead branches that could fall during the felling operation.
- Always shut the engine off before setting the chainsaw down.

Kickback Safety Precautions



- 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 towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards 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 on the safety devices built into your saw. As a chain saw user you should take several steps to keep cutting jobs free from accident or injury:
 1. With a basic understanding of kickback, you can reduce or eliminate the element of surprise. Sudden surprises contribute to accidents.
 2. Keep a good 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.

3. Make certain 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 which could be hit while you are operating the saw.
4. Cut at high engine speeds.
5. Do not overreach or cut above shoulder height.
6. Follow sharpening and maintenance instructions for saw chain.
7. Only use replacement bars and chains specified by Kogan.com customer support.

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.
The metallic parts reach high temperatures immediately after stopping the engine.

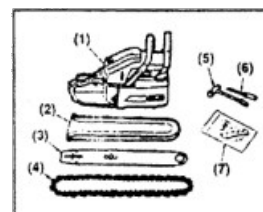
Transportation

- Always carry the unit with the engine stopped, the guide bar covered with the protector to the rear and the muffler away from your body.

Installing Guide Bar and Saw Chain

A standard saw unit package contains the items as illustrated.

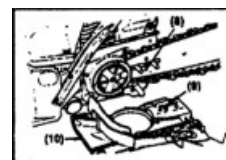
- (1) Power unit
- (2) Bar protector
- (3) Guide bar
- (4) Chainsaw
- (5) Plug wrench
- (6) Screwdriver for carburettor adjustment
- (7) Spike and mounting screws



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. Use thick protective gloves for safety.

1. Pull the guard towards the front handle to check that the chain brake is not on.
2. Loosen the nuts and remove the chain cover.
3. Install the attached spike to the power unit.
4. Gear the chain to the sprocket and, while fitting the saw chain around the guide bar, mount the guide bar to the power unit. Adjust the position of chain tensioner nut on the chain cover to the lower hole of guide bar.
- (8) Hole
- (9) Tensioner nut
- (10) Chain cover



NOTE Pay attention to the correct direction of the saw chain.



5. Fit the chain cover to the power unit and fasten the nuts to finger tightness.
6. While holding up the tip of the bar, adjust the chain tension by turning the tensioner screw until the tie straps just touch the bottom side of the bar rail.
7. Tighten the nuts securely with the bar tip held up (12-15 N. m). Then check the chain for smooth rotation and proper tension while moving it by hand. If necessary, readjust with the chain cover loose.
8. Tighten the tensioner screw.

NOTE A new chain will expand its length at 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 and Chain Oil

Fuel

Mix a regular petrol (unleaded) and a quality motor oil for air cooled 2 cycle engines.
Recommended mixing ratio:

Condition	Petrol : Oil
Up to 20 hours use	20 : 1
After 20 hours use	25 : 1

25 : 1 Mixing Chart

Petrol (litres)	1	2	3	4	5
2-stroke oil (mls)	40	80	120	160	200

NOTE Most engine troubles are caused by the fuel used. Take care not to use motor oil designed for 4-stroke engines.

Chain Oil

Use motor oil SAE# 10W-30 all year round, or SAE#30 ~ #40 in summer and SAE#20 in winter.
Do not use wasted or regenerated oil that can cause damage to the oil pump.

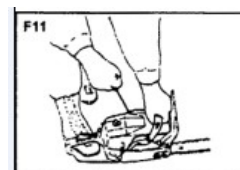
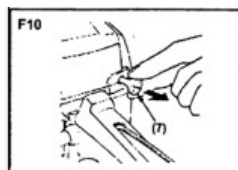
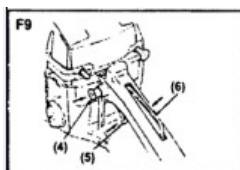
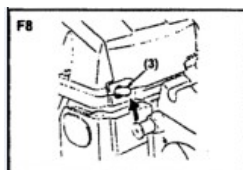
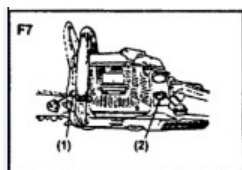
Starting the Engine

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 closed position. (F10)

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

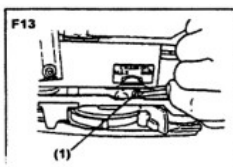
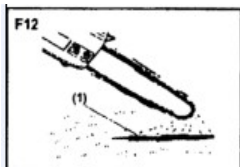
5. While holding the saw unit securely on the ground, pull the starter rope vigorously. (F11)
DO not start the engine while hanging the chainsaw with a hand. The saw chain may touch your body. It's very dangerous.
6. When engine has ignited first, push in the choke knob and pull the starter again to start the engine
7. Allow the engine to warm up with the throttle lever pulled slightly.

WARNING Keep clear of the saw chain as it will start rotating upon starting the 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 clutch side. Adjust according to your work conditions (F13 / 1 = adjuster)



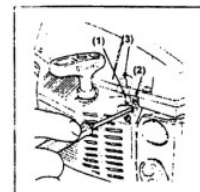
The oil tank should become nearly empty by the time fuel is used up. Be sure to refill the oil tank every time when refuelling the unit.

Adjusting the Carburettor

The carburettor on your unit has been factory adjusted, but may require fine tuning due to change in operating conditions. Before adjusting the carburettor, make sure that provided are clean air/fuel filters and fresh, properly mixed fuel. When adjusting, take the following steps:

NOTE Be sure to adjust the carburettor with the bar chain attached.

1. Stop engine and screw in both H and L needles until they stop. Never force them. Then set them back the initial number of turns as shown below.
H needle: 13/8 | L needle: 11/4
 2. Start engine and allow it to warm up at half-throttle.
 3. Turn L needle slowly clockwise to find a position where idling speed is maximum, then set the needle back a quarter (1/4) turn counter-clockwise.
 4. Turn idle adjusting screw (T) counter-clockwise to that saw chain does not turn. If idling speed is too slow, turn the screw clockwise.
 5. Make a test cut and adjust the H needle for best cutting power, not for maximum speed.
- (1) L needle
(2) H needle
(3) Idle adjusting screw



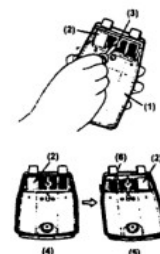
Carburettor Anti-Freeze Mechanism

Operating the chain saw in temperatures of 0-50°C at times of high humidity may result in ice forming within the carburettor, 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. Under normal circumstances the product should be used in normal operating mode, i.e. in the mode to 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.

Switching between operating modes

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

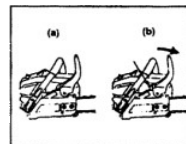


⚠ WARNING Continuing to use the product in anti-freeze mode even when temperatures have risen and returned to normal may result in the engine failing to start properly or in the engine failing to operate at its normal speed, and for this reason you should always be sure to return the unit to normal operating 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.

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 a “click” sound is heard.

⚠ WARNING Be sure to confirm brake operation during the daily inspection.

If the engine is kept operating at high speed with the brake engaged, the clutch will heat up causing further trouble. When the brake is operated during use, immediately release your fingers from the throttle lever to keep the engine idling.

Stopping the Engine

1. Release the throttle lever to allow the engine idling for a few minutes.
2. Put the switch to the “O” (STOP) position. (1 = Switch)



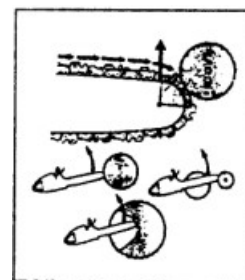
Sawing

⚠ WARNING Before starting on your cutting job, read the “For Safe Operation” section. It is recommended to first practice sawing on easy logs. This will also help you to get accustomed to your chainsaw.

- 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. 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 accessories to the chainsaw that are not specified by Kogan.com.
- 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

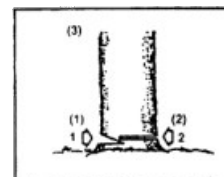
- This saw is equipped with a chain brake that will stop the chain in the event of kickback if operating properly. You must check the chain brake operation before each usage by running the saw at full the throttle for 1-2 seconds and pushing the front hand guard forward. The chain should stop immediately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



Felling a Tree

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.

- (1) Notch cut
- (2) Felling cut
- (3) Felling direction



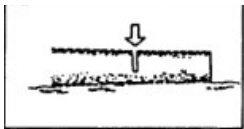
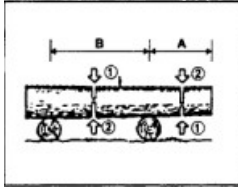
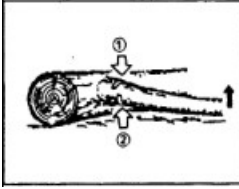
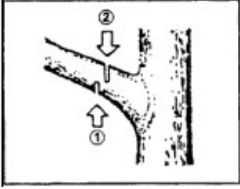
WARNING When you are felling a tree, be sure to warn your neighbouring workers of the danger.

Bucking and Limbing

WARNING Always ensure your foothold. Do not stand on the log you are cutting.

- Be alert to the rolling over of a cut log, especially when working on a slope. Stand on the uphill side of the log.

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.

 A log lying on the ground. Saw down halfway, then roll the log over and cut from the opposite side.	 A log hanging off the ground. 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 a limb from a fallen tree. Check to see which side the limb is bent. Then make the initial cut from the bent side and finish by sawing from the opposite side. (Be alert to the springing back of a cut limb).	 Pruning a standing tree. Cut up from the bottom, finish down from the top.
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WARNING Do not use an unstable foothold or ladder. Do not overreach. Always use both hands to hold saw.

Maintenance

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

Maintenance after each use

Air Filter

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 to clean, blow from the inside.

Oil Port

Dismount the guide bar, then check the oiling port for clogging.

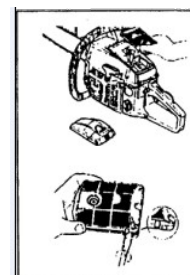
Guide Bar

When the guide bar is dismounted, remove any sawdust in the bar groove and the oiling port.

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

Other steps

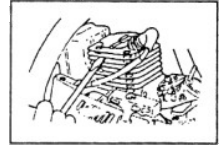
Check for fuel leakages, loose fastenings and physical damage to the chainsaw, especially the handle joints and guide bar. If any defects are found, do not use the chainsaw. Contact the Kogan customer support team.



Periodical Service Points

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.



NOTE Be sure to block the air intake hole.

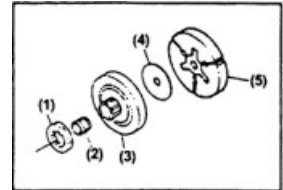
Spark Plug

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

Sprocket

Check for cracks and excessive wear interfering with the chain drive. If obvious wearing is found, have the unit serviced or replaced. Never fit a new chain onto a worn sprocket, or fit a worn chain onto a new sprocket.

- (1) Sprocket
- (2) Needle bearing
- (3) Clutch drum
- (4) Spacer
- (5) Clutch shoe



Fuel Filter

Disassemble the filter and wash with unleaded fuel, or replace with a new one if needed.

Oil Filter

Disassemble the filter and wash with unleaded fuel, or replace with a new one if needed.

Front and Rear Dampers

Replace if parts are peeled, or if cracking is observed on the rubber.

Maintenance of Saw Chain and Guide Bar

Saw Chain

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

Your cutters will need to be sharpened when:

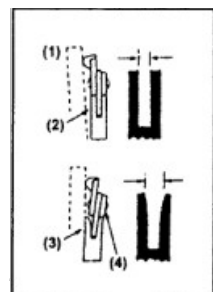
- Sawdust becomes powder-like
- You need extra force to saw into wood
- The cut way does not go straight
- Vibration increases
- Fuel consumption increases

When the cutters are blunt, you should either take the unit to a garden tool centre for professional sharpening, or you should invest in a chain sharpener and follow the instructions of the unit.

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 rail is worn. Such a bar needs to be corrected or replaced.

- (1) Ruler
- (2) Gap
- (3) No Gap
- (4) Chain Tilts



Product Specifications

Model Number	CTCHNSAW52A
Weight (without guide bar + chain)	5.5kg
Dimensions (without guide bar + chain)	410 x 235 x 265mm
Fuel Mix	25 : 1
Fuel Tank Capacity	550ml
Chain Oil	Motor Oil SAE#10W-30
Oil Tank Capacity	260ml
Engine Displacement	52cm ³
Maximum Engine Power	2.0kw/7000rpm
Maximum Engine Speed with cutting attachment	11000rpm
Maximum Engine Speed at idle	3000rpm
Maximum Cutting Length	38cm
Sprocket	7Tx0.325
Saw Chain Type	K2 (CARLTON)
Saw Chain Pitch	0.325"
Saw Chain Gauge	0.058"
Guide Bar Type	Sprocket Nose
Guide Bar Size	18.20.22"
Oil Feeding System	Automatic Pump with Adjuster