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Operation Manual



FB - CSP - 8658

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KisanKraft Limited

(Formerly known as KisanKraft Machine Tools Pvt Ltd)

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KisanKraft has a large range of products to serve the farmers. A list of our products is given below:

<p>Brush Cutters and Accessories</p> <ul style="list-style-type: none"> Brush Cutter/Power Weeder Backpack Brush Cutter Tea Pruner Pole pruner with Engine Reaper Attachment Blades-Circular Blades (2 & 3 points) Baffle Nylon Rope Tap & Go <p>Chainsaws</p> <ul style="list-style-type: none"> Petrol Chainsaw Electric Chainsaw Chain Sharpening Machine <p>Engines and Water Pumps</p> <ul style="list-style-type: none"> Engine –Diesel-(Horizontal) Engine –Diesel(Vertical) Engine-Kerosene Water Pump with Petrol Engine Water Pump with Kerosene Engine Water Pump with Diesel Engine <p>Hand Tools</p> <ul style="list-style-type: none"> Secateurs Folding Saw Garden Rake Garden Shovel Hedge Shear Lopper Telescopic Hedge Shear Telescopic Lopping Shear Tree Pruner Telescopic Steel Pipe & Fruit Picker Bag Sheep Shear <p>Garden Tools</p> <ul style="list-style-type: none"> Electric Pressure Washer Hedge Trimmer Lawn Mower (Electric, Petrol & Manual) Leaf Blower 	<p>Cultivators and Accessories</p> <ul style="list-style-type: none"> Petrol and Diesel <p>Sprayers and Accessories</p> <ul style="list-style-type: none"> Battery Sprayer Portable Power Sprayer Trolley Sprayer Manual Knapsack Sprayer Manual Pressure Sprayer Rose Cans Hose Crimping Machine HTP Sprayer HTP Delivery Hose HTP Hose Reel HTP Stand HTP Gun / Lance(Brass Rod) Knapsack Power Sprayer Mister / Duster / Granuel Spreader HTP Sprayer Set with Diesel Engine HTP Sprayer Set with Kerosene Engine Fogging Machine <p>Milking Machine</p> <ul style="list-style-type: none"> Wood Shredder Fodder Ensiling Chaff Cutter Fodder Grinder Chaff Cutter Fodder Mini Chaff Cutter <p>Harvester</p> <ul style="list-style-type: none"> Maize Sheller Maize Sheller + Dehusker Maize Combine Harvester Onion Digger Carlotti Italy Tea Leaf Harvester Sugarcane Combine Harvester Sugarcane Leaf Stripper <p>Transplanter and Post Hole Digger</p> <ul style="list-style-type: none"> Paddy Transplanter (2 & 8 Rows) Transplanter-Vegetable & Tobacco Post Hole Digger(4" to 14" Augers)
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Key	Description	Quantity
8.	Ignition	1
9.	Cord	1
10.	Screw	1
11.	Ground plate	1
12.	Switch (ON/OFF)	1
13.	Switch cover	1
14.	Snap ring	2
15.	Flywheel	1
16.	Screw	2
17.	Spring	2
18.	Pawl	2
19.	Washer	2
20.	Nut	2

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BEFORE GETTING STARTED

The instructions contained in WARNING 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. After reading, preserve this manual for future reference.

SAFETY SYMBOLS

Note:



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 indicates instructions which must be followed else may lead to mechanical failure, breakdown, or damage.

NOTE

This indicates hints or directions to use the product.

Key to symbols



Read owner's manual before operating this machine



Always wear:

- Approved protective helmet
- Approved hearing protection
- Protective goggles



Use the chain saw with both the hands



WARNING! Kickback danger



WARNING / Attention

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).

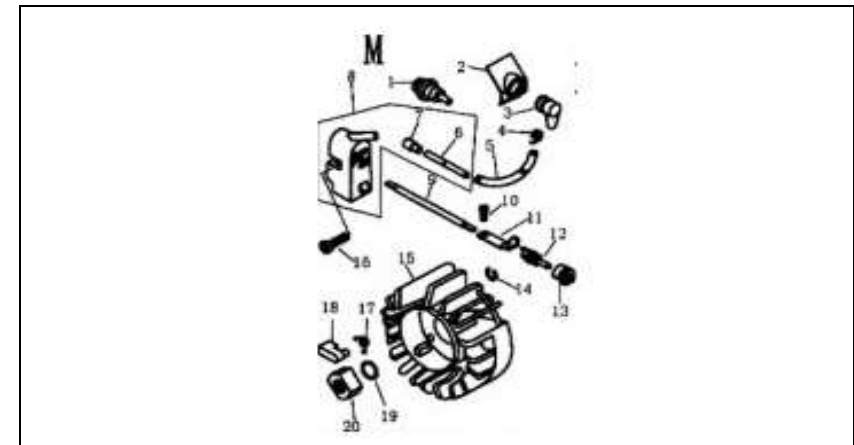
WARNING

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.

Clutch System

Key	Description	Quantity
1.	Roller bearing	1
2.	Sprocket(rim)	1
3.	Clutch drum	1
4.	Clutch assembly	1
5.	Clutch washer	1
6.	Clutch wedge	3
7.	Clutch spring	1
8.	Clutch support	1

Ignition System



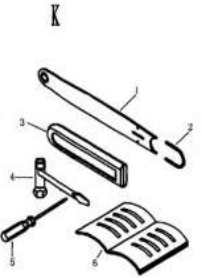
Key	Description	Quantity
1.	Spark plug	1
2.	Dust shield	1
3.	Spark plug cap	1
4.	Spring	1
5.	Tube	1
6.	Cord	1
7.	Cord sleeve	1

Key	Description	Quantity
1.	Starter assembly	
2.	Screw	
3.	Starter label	
4.	Starter case	1
5.	Guide (LH) 1	4
6.	Reel bearing	1
7.	Recoil spring comp	1
8.	Starter reel	1
9.	Starter reel washer	1
10.	Screw	1
11.	Fan cover	1
12.	Nylon rope	1
13.	Starter knob	1









Muffler System

	Key	Description	Quantity
	1.	Screw	2
	2.	Muffler nut	2
	3.	Screw	2
	4.	Muffler bolt	2
	5.	Muffler gasket	1
	6.	Muffler	1
	7.	Muffler cover	1

Attached Tools and Parts





	Key	Description	Quantity
	1.	Guide bar	1
	2.	Chain	1
	3.	Guide bar cover	1
	4.	Wrench	1
	5.	Screw driver	1
6.	User manual	1	

SYMBOLS ON THE MACHINE

Symbol	Position	Description
	Fuel Tank Cap	The port to refuel the 'MIX PETROL'
	Oil Cap	The port to refuel the 'CHAIN OIL'
	Rear (back) left of the unit	The indication regarding the switch. Flipping the engine switch to the "O" (STOP) direction, the engine stops.
	Rear (back) right of the unit	The indication regarding the choke. Pulling out the choke knob, make the choke close.
	Bottom of the clutch side	The indication regarding the chain oil adjuster nut. "MIN" direction-the oil flow will decrease "MAX" direction-the oil flow will increase
	Rear-left of the unit	The position of H-needle, L-needle and Idle adjusting screw
		
		

SAFETY INSTRUCTIONS

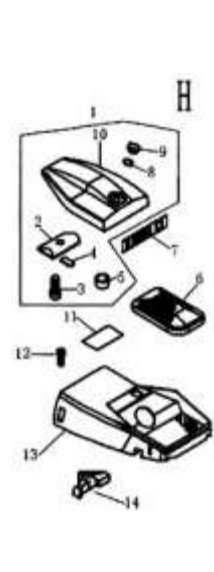
BEFORE USING THE MACHINE

1. Read this operation manual carefully to understand how to operate this unit properly. 
2. 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. 
3. Avoid running the engine indoors. The exhaust gases contain harmful carbon monoxide 
4. Never use the product under circumstances like those described below:
 - a) When the ground is slippery or when other conditions exist which might make it not possible to maintain a steady posture
 - b) 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.
 - c) 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
5. When using this product for the first time, before beginning actual work, learn to handle it from skilled worker.
6. 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.
7. Be sure to keep this manual handy so that you may refer to it later whenever any questions arise.
8. Always be sure to include this manual when selling, lending, or otherwise transferring the ownership or the product.
9. Never allow children or anyone unable to fully understand the directions given in this manual to use this product 

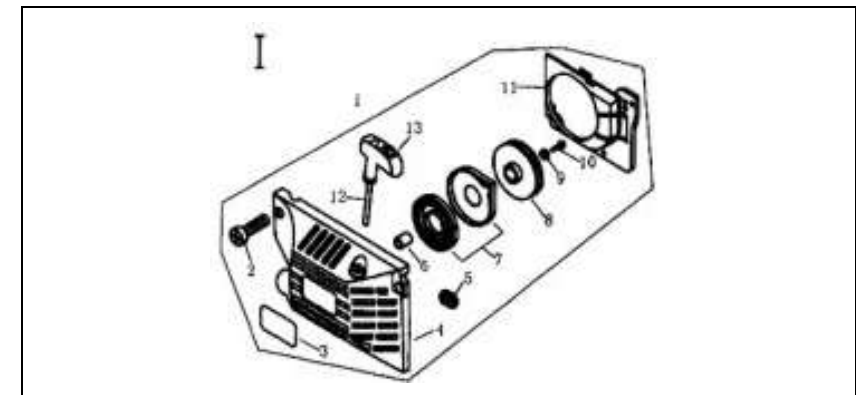
WORKING GEAR AND CLOTHING

- a) When using the product, you should wear clothing and protective equipment as follows.

Filter System

	Key	Description	Quantity
	1.	Air filter cover comp	1
	2.	Anti-freeze screen	1
	3.	Screw	1
	4.	Sponge	1
	5.	Air filter damper	1
	6.	Air filter comp	1
	7.	Label(ON/OFF)	1
	8.	Nylon gasket	1
	9.	Air filter cover knob	1
	10.	Air filter cover	1
	11.	Label (warning)	1
	12.	Screw	5
	13.	Cylinder top cover	1
	14.	Guide (T)	1

Starter System

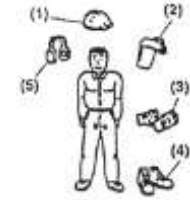


Key	Description	Quantity
13.	Oil tank cap gasket	1
14.	Screw	2
15.	Oil seal plate	1
16.	Chain guide	1
17.	Guide plate	1
18.	Screw	2
19.	Sponge	1
20.	Ring	1
21.	Oil tank valve	1

Fuel Supply System

Key	Description	Quantity
1.	Fuel pipe assembly	1
2.	Fuel pipe	1
3.	Oil pipe collar	1
4.	Fuel filter assembly	1
5.	Fuel filter screen	2
6.	Fuel filter element	2
7.	Fuel tank cap assembly	1
8.	Fuel tank cap gasket	1
9.	Fuel tank cap	1

1. Helmet
2. Protection goggles or face Protector
3. Thick work gloves
4. Non-Slip-sole work boots
5. Ear protectors



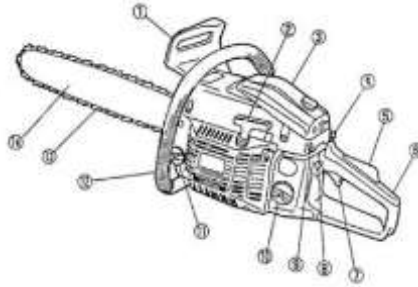
- b) And you should carry with you.
- Attached tools and files.
 - Properly reserved fuel and chain oil.
 - Things to notify your Working area (Rope, WARNING signs)
 - Whistle (for collaboration or emergency)
 - Hatchet or saw (for removal of obstacles)
- c) Never use the product when wearing pants with 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 Petrol. 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.

PARTS OVERVIEW



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

BEFORE STARTING THE ENGINE

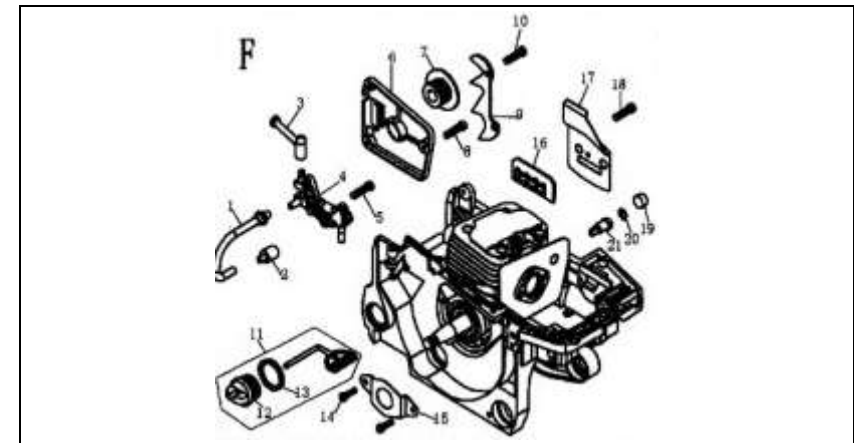
1. Check the working place, the cutting object and cutting direction. If there is any obstacle, remove it.
2. Never start cutting until you have a clear work area, secure footing and a planned retreat path from the falling tree.
3. Use caution and keep bystanders and animals out of the working area whose diameter is 2.5 times of the cutting object.
4. Inspect the machine for worn, loose, or damaged parts. Never operate the machine if it 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.

WHILE STARTING THE ENGINE

1. Always hold the machine firmly with both hands when the engine is running. Use a firm grip with thumb and fingers encircling the handles.
2. Keep all parts of your body away from the machine while the engine is running.
3. Before starting the engine, make sure the saw chain is not in contact with any object.

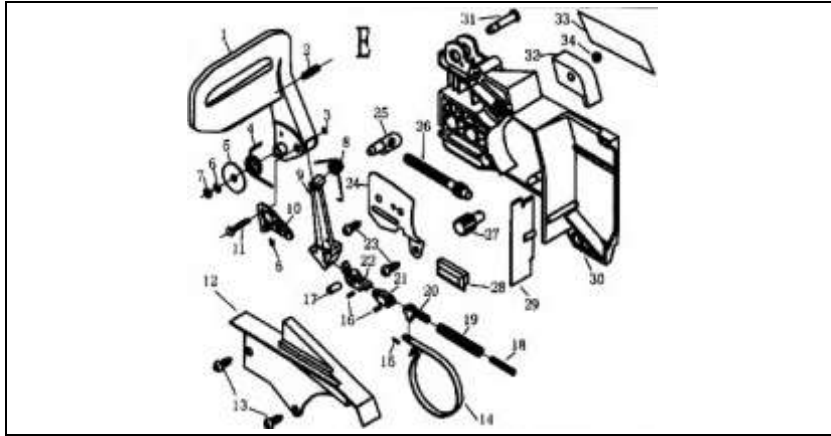
Key	Description	Quantity
26.	Tensioned bolt	1
27.	Tensioner screw	1
28.	Chain guide	1
29.	Sawdust protector	1
30.	Clutch cover	1
31.	Guard pin	1
32.	Damper	1
33.	Clutch cover label	1
34.	nut	2

Oil Supply System



Key	Description	Quantity
1.	Oil pump pipe (I)	1
2.	Oil filter assembly	1
3.	Oil pump pipe (O)	1
4.	Oil pump	1
5.	Screw	2
6.	Oil pump cover	1
7.	Oil pump worm	1
8.	Screw	3
9.	Spiked bumper	1
10.	Screw	2
11.	Oil tank cap assembly	1
12.	Oil tank cap	1

Brake System



Key	Description	Quantity
1.	Front hand guard	1
2.	Spring pin	1
3.	Snap ring	1
4.	Recoil spring	1
5.	Plate washer	1
6.	Snap ring	2
7.	Grommet	1
8.	Weight hook spring	1
9.	Weight hook	1
10.	Stopper plate	1
11.	Stopper pin	1
12.	Brake spring cover	1
13.	Screw	2
14.	Brake band	1
15.	Brake band roller	1
16.	Pin	2
17.	Guard pin sleeve	1
18.	Brake spring (sub)	1
19.	Brake spring (main)	1
20.	Brake arm	1
21.	Brake lever (main)	1
22.	Brake lever (sub)	1
23.	Screw	2
24.	Tensioner plate	1
25.	Tensioned pin	1

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 that you won't 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:

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. The tip contact in some cases may cause a lightning-fast reverse action, kicking the guide bar rapidly back towards the operator. PINCHING the saw chain along the BOTTOM of the guide bar may PULL the saw forward, away from 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 injury to the user.

How to minimize kickback: The following precautions should be followed to minimize kickback.

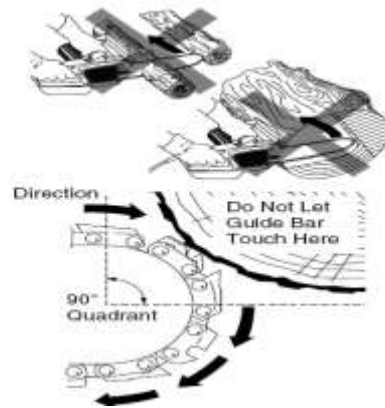
- GRIP SAW FIRMLY:** Always hold the chain saw with your right hand on the rear handle and your left hand on the front handle. Holding the chainsaw with a reversed hand configuration increases the risk of personal injury and should never be done.
- Keep proper footing and balance at all times.
- Do not let the nose of the guide bar come in contact a log, branch, ground or other obstruction.
- Do not overreach and do not cut above shoulder height. This helps prevent unintended tip contact and enables better control of the chainsaw in unexpected situations.
- Use devices, such as low-kickback chain, guide bar nose guards, chain brakes and special guide bars, which reduce the risks associated with kickback.
- Only use replacement bars and chains specified by the manufacturer. Incorrect replacement bars and chains may cause chain breakage and/or kickback.

- g) 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.
- h) With a basic understanding of kickback you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents
- i) Cut at high engine speed.

Kickback safety devices on this saw.

This saw has a low-kickback chain and reduced kickback guide bar, both items reduce the chance of kickback, kickback can still occur with this saw.

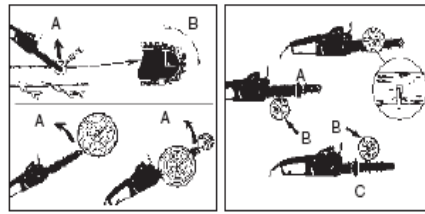
Properly install front hand guard, this item can reduce injuries from kickback, do not remove the front hand guard; do not replace front hand guard with a substitute.



⚠️ WARNING:

Beware Of: Rotational Kickback: Kickback can lead to dangerous loss of control of the chain saw and result in serious or fatal injury to the saw operator or to anyone standing close by. Always be alert because rotational kickback and pinch kickback are major chain saw operational dangers and the leading cause of most accidents.

Rotational Kickback (Fig. 2A)
A = Kickback path
B = Kickback reaction zone

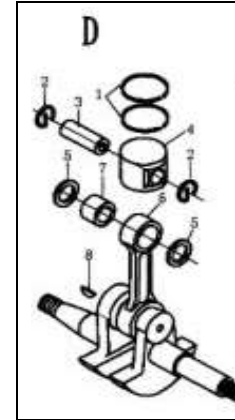


THE PUSH (PINCH KICKBACK) AND PULL REACTIONS (Fig. 2B):
A = Pull,
B = Solid objects,
C = Push

Key	Description	Quantity
10.	Throttle lever	1
11.	Throttle spring	1
12.	Screw	1
13.	Gasket	1
14.	Stopper	1
15.	Knob cap	1
16.	Spring	1
17.	Rear handle	1
18.	Screw	1
19.	Spring pin	1
20.	Throttle interlock shaft	1

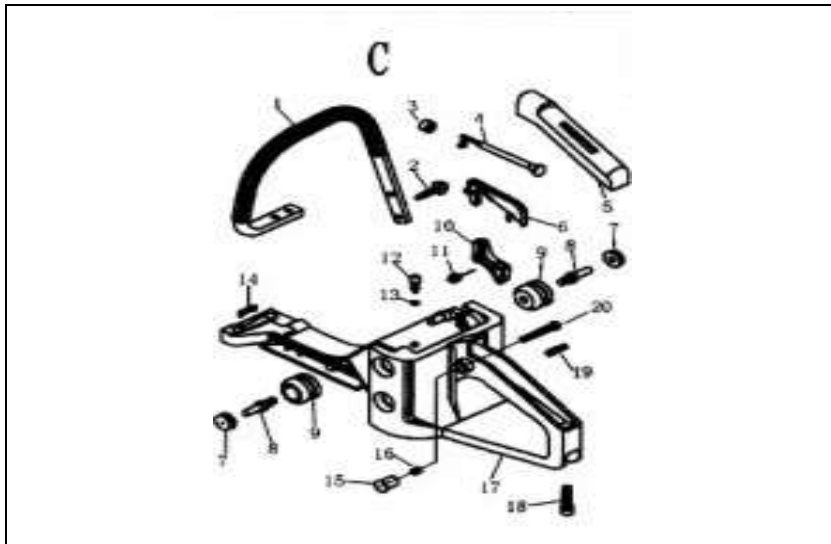
Crankshaft Piston System

Key	Description	Quantity
1.	Piston ring	2
2.	Piston retainer	2
3.	Piston pin	1
4.	Piston	1
5.	Washer	2
6.	Crankshaft comp	1
7.	Roller bearing	1
8.	key	1



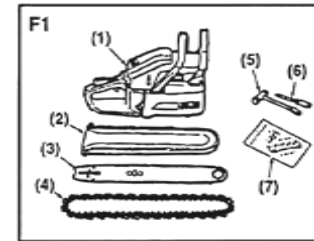
Key	Description	Quantity
9.	Asbestos mat	1
10.	Spacer	1
11.	Inlet pipe guide	1
12.	Throttle rod	1
13.	Dust shield	1
14.	Screw	2
15.	Damper	1
16.	Stud	1
17.	Manifold	1
18.	Carburetor	1

Rear Handle System



Key	Description	Quantity
1.	Front handle comp	1
2.	Screw	4
3.	Choke rod damper	4
4.	Choke rod	4
5.	Rear handle cover	4
6.	Throttle interlock arm	4
7.	Cap (2)	2
8.	Retaining set screw	2
9.	Damper	2

INSTALLING GUIDE BAR AND SAW CHAIN



A standard saw unit packing contains the items as the items as illustrated.(F1)

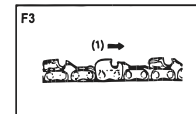
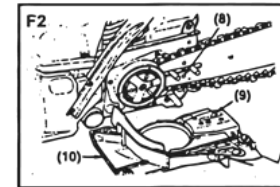
1. Power Unit
2. Bar protector
3. Guide bar
4. Chainsaw
5. Plug wrench
6. Screwdriver for carburetor adjustment
7. Spike and mounting screws

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. Use thick protective gloves for safety.

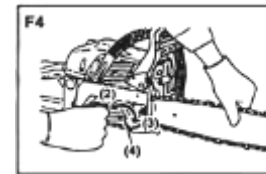
1. Pull the guard towards the front handle to check that the chain brake is not on.
2. Loosen the nuts and remove the chain cover.
3. Install the attached spike to the power unit.
4. Gear the chain to the sprocket and, while fitting the saw chain around the guide bar, mount the guide bar to the power unit. Adjust the position of the chain tensioner nut on the chain cover to the lower hole of the guide bar.(F2)
 8. Hole
 9. Tensioner nut
 10. Chain cover



Note:

Pay attention to the correct direction of the saw chain.(F3)

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 tensioner 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 (12-15N.m). 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 tensioner screw.

Note: A new chain will expand its length is 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 normal Petrol (leaded or unleaded, alcohol-free) and a good quality-proven motor oil for air cooled 2 cycle engines.

Recommended mixing ratio and mix-chart:

Condition	Petrol: Oil	1 Ltr	2 Ltr	3 Ltr	4 Ltr
First 20 hours of use	20 : 1	50 ml	100 ml	150 ml	200 ml
After 20 hours of use	25 : 1	40 ml	80 ml	120 ml	160 ml

WARNING:

- Keep open flames away from the area where fuel is handled or stores.
- Mix and store fuel only in an approved Petrol 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 engine.

Chain oil:

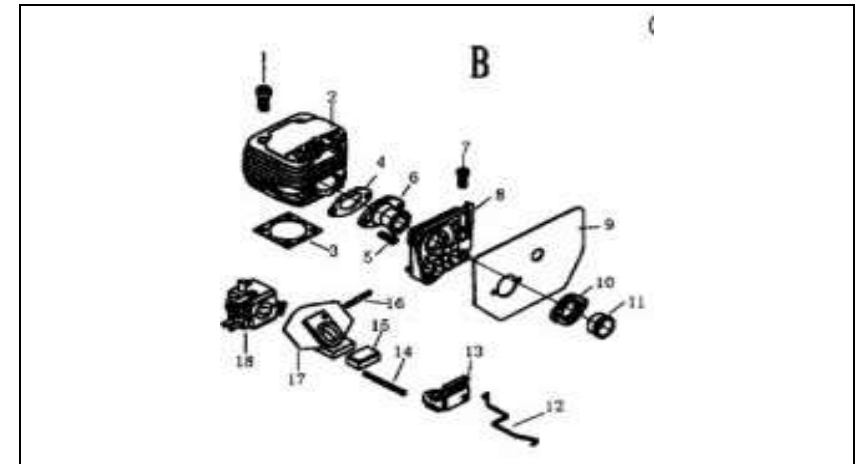


Use motor oil SAE# 10W-30 all year round or SAE #30 - #40 in summer and SAE #20 in winter.

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

Key	Description	Quantity
16.	Locating pin	2
17.	Right -case	1
18.	Spring body	1
19.	Spring	1
20.	Chain catcher	1
21.	Screw	1
22.	Breather body	1
23.	Breather valve	1
24.	Breather pipe	1
25.	Stud	2
26.	Oil seal (R)	1
27.	Stopper (R)	1

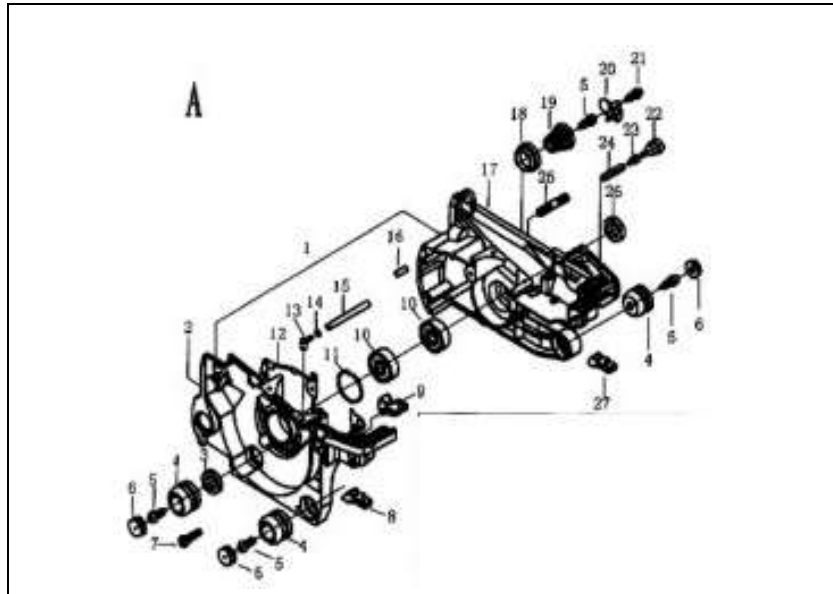
Cylinder Inlet System



Key	Description	Quantity
1.	Screw	4
2.	Cylinder	1
3.	Cylinder gasket	1
4.	Inlet pipe gasket	1
5.	Screw	2
6.	Inlet pipe	1
7.	Screw	1
8.	Carburetor bracket	1

PARTS DIAGRAM AND LIST

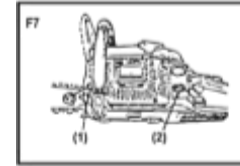
Crankcase Assembly



Key	Description	Quantity
1.	Crankcase assembly	1
2.	Left – case	1
3.	Oil seal (L)	1
4.	Damper	3
5.	Screw	4
6.	Cap (1)	3
7.	Screw	5
8.	Stopper (R)	1
9. z	Guide (LH)	1
10.	Bearing	2
11.	Snap ring	1
12.	Crankcase gasket	1
13.	Elbow	1
14.	Vacuum pipe clip	1
15.	Vacuum pipe	1

STARTING THE ENGINE

Starting the Engine:

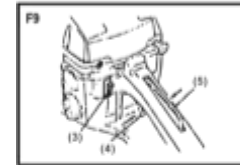


a) Fill fuel and chain oil tanks respectively, and tighten the caps securely.(F7)



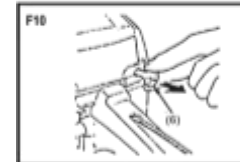
b) Put the switch to "I" position. (F8)
c) While holding the throttle lever together with the throttle interlock, push in the side throttle lock button and release the throttle lever to hold it at the starting position. (F9)

1. Chain oil
2. Fuel
3. Switch
4. Throttle lock button
5. Throttle lever
6. Throttle interlock
7. Choke knob



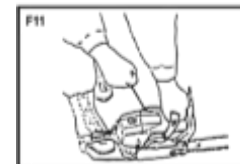
d) Pull out the choke knob to the closed position.(F10)

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



e) While holding the saw unit securely on the ground, pull the starter rope vigorously. (F11)

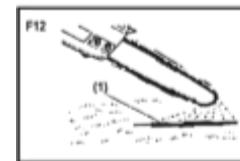
WARNING: Do not start the engine while hanging the chain saw with a hand. The saw chain may touch your body. It's very dangerous.



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

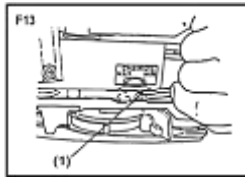
g) Allow the engine to warm up with the throttle lever pulled slightly.

WARNING: Keep clear of the saw chain as it will start rotating upon starting of engine.



CHECKING OIL SUPPLY

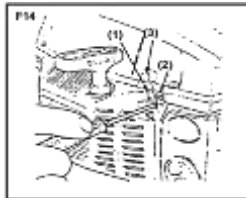
After starting the engine, run the chain at medium speed and see if chain oil is scattered off. (F12)



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

Note: The chain 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 on your unit has been factory adjusted, but may require fine tuning due to change in operating conditions. Before adjusting the carburetor, 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 carburetor with the bar chain attached.

1. Stop engine and screw in both H and L needles until they stop. Never force. Then set them back the initial number of turns as shown below.

H needle: 1 ¼	L needle: 1 ¼
---------------	---------------
 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 counterclockwise.
 4. Turn idle adjusting screw (T) counterclockwise 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

CARBURETOR ANTI-FREEZE MECHANISM

Operating the chain saw in temperatures of 0.50C 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 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.

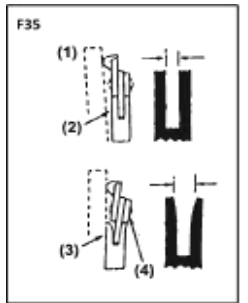
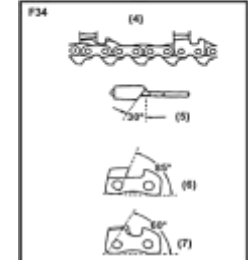
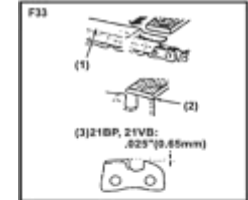
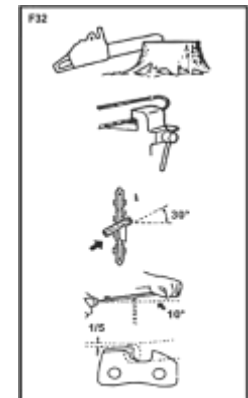
Place your file on the cutter and push straight forward. Keep the file position as illustrated. After every cutter has been set, check the depth gauge and file it to the proper level as illustrated.(F32)

WARNING: Be sure to round off the front edge to reduce the chance of kickback or lie-strap breakage.(F33)

- 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 in the figure (F34)
- 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 the 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. (F35)
 - (1) Ruler
 - (2) Gap
 - (3) No gap
 - (4) Chain tilts



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:

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.

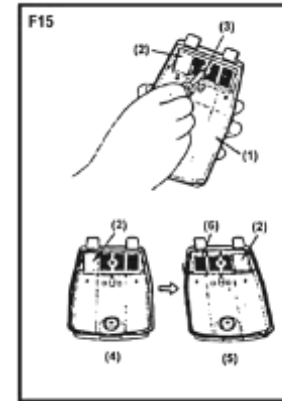
Chain type: 21 VB

File size: 3/16 in (4.76mm)

WARNING:

Be sure to wear safety gloves.

HOW TO SWITCH BETWEEN OPERATING MODES (F15)

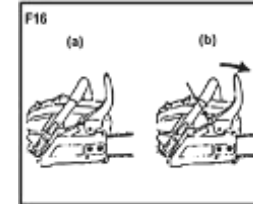


1. Flip the engine switch to turn off the engine.
2. Remove the air cleaner cover from the cylinder cover
3. Loosen a screw and remove the screen on the back of the air cleaner cover.
4. Reattach the screen right side left so as to the anti-icing plate is on the right. Reinstall the cover.
 - (1) Air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

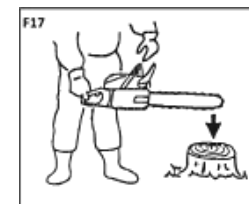
When using the saw with the anti-freeze mode, frequently check the screen and keep it clean of saw dust.

CHAIN BRAKE



This machine is equipped with an automatic brake to stop saw chain rotation upon occurrence to 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. (F16)

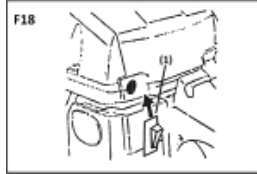
To release brake, pull up the front guard toward the front handle till "click" sound is heard



Caution: Be sure to confirm brake operation on the daily inspection, by following steps:

- (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. (F17) 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 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.(F18)

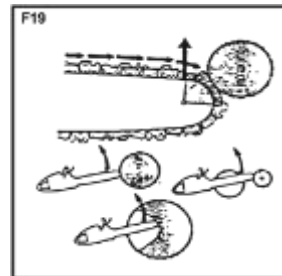
SAWING

Warning:

- 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 be used only 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 chainsaw as a lever for lifting, moving or splitting objects. Do not lock it over fixed stands. It is forbidden to hitch tools or applications to the PTO 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 (F19)

1. 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.
2. 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



PERIODICAL SERVICE POINTS:

Cylinder Fins: .(F29)

Dust clogged between the cylinders fins will cause overheating of the engine. Periodically check and clean the cylinder fins after removing the air cleaner and the cylinder cover.

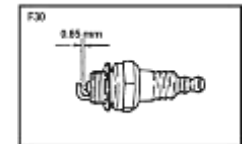
When installing the cylinder cover, make sure that switch wires and grommets are positioned correctly in place

NOTE: Be sure to block the air intake hole.



Spark plug: (F30)

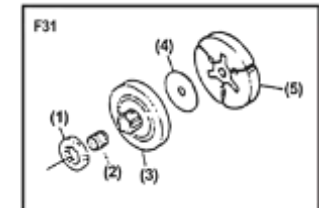
Clean the electrodes with a wire brush and reset the gap to 0.65mm as necessary.



Sprocket: (F31)

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

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



Fuel Filter: Disassemble the filter and wash with Petrol, or replace with new one if needed.

Oil Filter: Disassemble the filter and wash with Petrol, or replace with new one if needed.

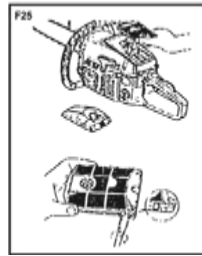
Front and Rear Dampers: Replace if adhered part is peeled or crack is observed on the rubber part.

MAINTENANCE

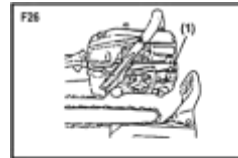
WARNING: Before cleaning, inspecting, or repairing your unit, make sure that the engine has stopped and is cool. Disconnect the spark plug to prevent accidental starting.

MAINTENANCE AFTER EACH USE:

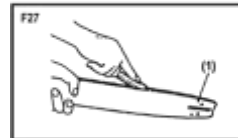
Air Filter: Dust on the cleaner surface can be removed by tapping a corner of the cleaner against a hard surface. To clean dirt in the meshes, split the cleaner in to halves and clean it. When using compressed air, blow from the inside. (F25)



Oiling port: Dismount the guide bar and check the oiling pot for clogging. (F26)

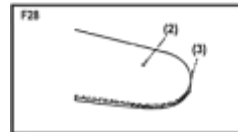


Guide bar: When the guide bars are dismounted, remove saw dust in the bar groove and the oiling port. (F27)



Grease the nose sprocket from the feeding port on the tip of the bar. (F28)

- (1) Oiling port,
- (2) Grease port,
- (3) Sprocket



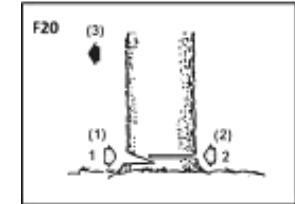
Others: Check for fuel leakage and loose fastenings and damage to major parts, especially handle joints and guide bar mounting. If any defects are found, make sure to have them repaired before operating again.

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.

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

- Notch cut
- Felling cut
- Felling direction



BUCKING AND LIMBING

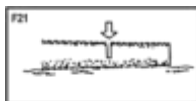
Warning:

- 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.

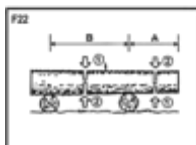
A Log lying on the ground (F21)

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



A Log hanging off the ground : (F22)

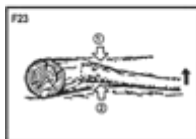
In area A, saw up from the bottom one-third and finish by sawing down from the top. In area B, saw down from the top one-third and finish by sawing up from the bottom.



Cutting Limb of Fallen Tree: (F23)

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.

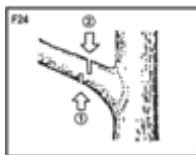


Pruning of standing Tree: (F24)

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 both the hands to grip the saw.



TECHNICAL SPECIFICATION

Particulars	Details
Chain saw Model	FB-CSP-8658
Mass (without guide bar and chain)	5.50 (kg)
Dimensions (without guide bar and chain)	410x235x265 (mm)
Fuel	Mixture (Gasoline 25:Two-cycle oil 1)
Fuel tank capacity	550 (ml)
Chain oil	2 Stroke Motor oil
Oil tank capacity	260 (ml)
Engine displacement	58 (cm) ³
Maximum engine power	2.4 kw / 7500 rpm
Maximum engine speed with cutting attachment	10000 rpm
Maximum Engine speed at idling	3200 rpm
Sprocket	7T×0.325
Saw chain pitch	0.83 cm or (0.325 in)
Saw chain gauge	0.15 cm or (0.058 in)
Guide bar type	Sprocket nose
Guide bar size	46 cm or (18 in)
Oil feeding system	Automatic pump with adjuster

NOTE: Specifications are subject to change without notice.