

limited to, loss of use, loss of profits, loss of production, expense of substitute equipment or other commercial loss or damage.

**Limitation of Liability:** This limited warranty is in lieu of all other express warranties, obligations, or liabilities. Any implied warranties, obligations or liabilities, including, but not limited to, any implied warranty of merchantability shall be limited in duration to the applicable warranty period. Any action for breach of any warranties hereunder, including, but not limited to, any implied warranty of merchantability must be brought within the applicable warranty period.

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Product	<b>Petrol Chainsaw</b>	KisanKraft Invoice Date	
Brand	<b>Aryantra</b>	KisanKraft Invoice No.	
Model	<b>AY-CSP-6118 ,AY-CSP-6120, AY-CSP-6122</b>		
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**User Manual**

Wide Range of Products for Every Need



For more information give MISSED CALL: 07676065555



Many of our products have BIS: ISI certification.



**KisanKraft Limited**

Sri Huchanna Tower, #4, 1<sup>st</sup> Main, 7-A Cross, Maruthi Layout, Dasarahalli,  
HAF Post, Hebbal, Bangalore 560024, Karnataka, INDIA

- ◆ Bangalore (HO) ◆ Ahmedabad ◆ Bhopal ◆ Bhubaneswar ◆ Coimbatore
- ◆ Guwahati ◆ Nellore ◆ Hubli ◆ Hyderabad
- ◆ Jaipur ◆ Karnal ◆ Kolkata ◆ Lucknow ◆ Pune ◆ Raipur



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## CONTENTS

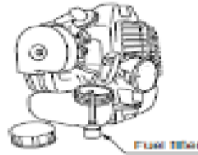
1. Safe Operation .....	7
2. Explanation of Symbols on the Machine .....	11
3. Installing Guide Bar and Saw Chain .....	13
4. Fuel and Chain Oil .....	14
5. Operating the Engine .....	17
6. Sawing .....	23
7. Maintenance.....	26
8. Maintenance of Saw Chain and Guide Bar .....	29
9. Troubleshooting Guide .....	31
10. Technical Specifications .....	32

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

<p><b>Brush Cutters and Accessories</b></p> <ul style="list-style-type: none"> <li>Brush Cutter/Power Weeder</li> <li>Backpack Brush Cutter</li> <li>Tea Pruner</li> <li>Pole pruner with Engine</li> <li>Reaper Attachment</li> <li>Blades-Circular</li> <li>Blades (2 &amp;3 points)</li> <li>Baffle</li> <li>Nylon Rope</li> <li>Tap &amp; Go</li> </ul> <p><b>Chainsaws</b></p> <ul style="list-style-type: none"> <li>Petrol Chainsaw</li> <li>Electric Chainsaw</li> <li>Chain Sharpening Machine</li> </ul> <p><b>Engines and Water Pumps</b></p> <ul style="list-style-type: none"> <li>Engine –Diesel-(Horizontal)</li> <li>Engine –Diesel(Vertical)</li> <li>Engine-Kerosene</li> <li>Water Pump with Petrol Engine</li> <li>Water Pump with Kerosene Engine</li> <li>Water Pump with Diesel Engine</li> </ul> <p><b>Hand Tools</b></p> <ul style="list-style-type: none"> <li>Secateurs</li> <li>Folding Saw</li> <li>Garden Rake</li> <li>Garden Shovel</li> <li>Hedge Shear</li> <li>Lopper</li> <li>Telescopic Hedge Shear</li> <li>Telescopic Lopping Shear</li> <li>Tree Pruner</li> <li>Telescopic Steel Pipe &amp; Fruit Picker Bag</li> <li>Sheep Shear</li> </ul> <p><b>Garden Tools</b></p> <ul style="list-style-type: none"> <li>Electric Pressure Washer</li> <li>Hedge Trimmer</li> <li>Lawn Mower (Electric, Petrol &amp; Manual)</li> <li>Leaf Blower</li> </ul>	<p><b>Cultivators and Accessories</b></p> <ul style="list-style-type: none"> <li>Petrol and Diesel</li> </ul> <p><b>Sprayers and Accessories</b></p> <ul style="list-style-type: none"> <li>Battery Sprayer</li> <li>Portable Power Sprayer</li> <li>Trolley Sprayer</li> <li>Manual Knapsack Sprayer</li> <li>Manual Pressure Sprayer</li> <li>Rose Cans</li> <li>Hose Crimping Machine</li> <li>HTP Sprayer</li> <li>HTP Delivery Hose</li> <li>HTP Hose Reel</li> <li>HTP Stand</li> <li>HTP Gun / Lance(Brass Rod)</li> <li>Knapsack Power Sprayer</li> <li>Mister / Duster / Granule Spreader</li> <li>HTP Sprayer Set with Diesel Engine</li> <li>HTP Sprayer Set with Kerosene Engine</li> <li>Fogging Machine</li> </ul> <p><b>Milking Machine</b></p> <ul style="list-style-type: none"> <li>Wood Shredder</li> <li>Fodder Ensiling Chaff Cutter</li> <li>Fodder Grinder Chaff Cutter</li> <li>Fodder Mini Chaff Cutter</li> </ul> <p><b>Harvester</b></p> <ul style="list-style-type: none"> <li>Maize Sheller</li> <li>Maize Sheller + Dehusker</li> <li>Maize Combine Harvester</li> <li>Onion Digger Carlotta Italy</li> <li>Tea Leaf Harvester</li> <li>Sugarcane Combine Harvester</li> <li>Sugarcane Leaf Stripper</li> </ul> <p><b>Transplanter and Post Hole Digger</b></p> <ul style="list-style-type: none"> <li>Paddy Transplanter (2 &amp; 8 Rows)</li> <li>Transplanter-Vegetable &amp; Tobacco</li> <li>Post Hole Digger(4" to 14" Augers)</li> </ul>
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Using a piece of wire, or the likes, pull out the fuel filter and wash with clean white kerosene. When it is fouled heavily, replace the filter and also wash the tank inside.

**▲ Use of fire is strictly prohibited**



### Carbon removal

Remove carbon from the muffler in-/outlet, cylinder and piston. This work requires engine servicing skill and some tools. Consult the dealer or nearest service center.

### ▲ CAUTIONS DURING INSPECTION

- Disconnect the ignition plug wires before inspection or adjustment to prevent unexpected start of engine.
- Do not touch the engine immediately after operation to prevent burn.
- Use of fire is strictly prohibited when handling the fuel (petrol).
- Make sure to clean spilled fuel sufficiently before using the engine.
- Do not wash the engine with water.
- Do not change the setting revolution speed carelessly. (Consult your dealer when changing the revolution speed.)

### STORAGE

When releasing the engine from operation for more than 30 days, it must be serviced and stored as follows with care to prevent the starting trouble or malfunction due to degeneration of fuel.

1. Drain the fuel from the fuel tank and start to run the engine till it is stopped due to use-up of fuel.
2. Wash the inside of fuel tank and fuel filter with white kerosene.  
**▲ Use of fire is strictly prohibited**
3. Removing the ignition plug, inject a small quantity of new engine oil through the plughole. After idling slowly for few revolutions operating the recoil starter, install the ignition plug. Pull the recoil starter again and stop it at the position where it is felt heavy.
4. Clean the external surfaces with soft cloth and store it at a dry place free from fires.

**NOTE:** If the unit is left over without draining fuel, impurities in the fuel could clog the fuel passages such as the carburetor, fuel filter, or others, and cause engine troubles. Make sure to drain the fuel when storing the unit for a long period of time.

**▲ Sufficient care must be taken not to use fires at the vicinity when handling the fuel.**

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Inspection, cleaning of ignition plug		✓		
Inspection, cleaning of fuel filter		✓		
Removal of carbon from muffler, cylinder		✓		
Cleaning of spark arrestor		✓		
Replacement of ignition plug			✓	
Replacement of fuel piping (fuel pipe and grommet)				✓

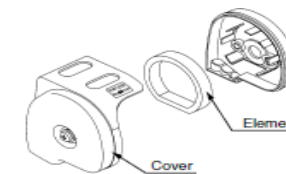
### INSPECTION AND SERVICE BEFORE EACH OPERATION

#### Cleaning of air cleaner

Wash the element with white kerosene and then immerse it in engine oil. Squeeze it tightly with single hand.

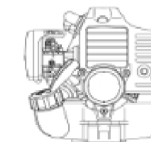


**Use of fire is strictly prohibited**



#### Cleaning and service at respective sections

- Clean thoroughly around the muffler.
- Clean the cooling fins and the cooling air inlet.
- Inspect and retighten bolts and nuts.
- Inspect the fuel leakage.



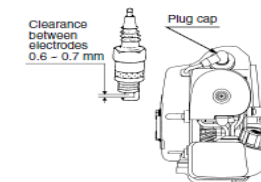
### INSPECTION AND SERVICE AT EVERY 50-HOUR

#### Cleaning and adjustment of ignition plug

After removing carbon accumulated on the electrodes and the insulator, adjust the clearance between the electrodes at 0.6 ~ 0.7 mm




**When mounting the plug cap, push it in securely**




#### Cleaning of fuel filter

- Do not operate the engine while withered grasses, leaves or other inflammable substances are sticking in or around the muffler cover.
- Do not touch the ignition plug cap or high-voltage cord during operation. (There is risk of electric shock or physical injury.)
- Do not operate the engine with the muffler or air cleaner cover removed

### ADJUSTING THE CARBURETOR


 Engine revolution speed is adjusted at the optimum condition before shipping from the factory. It should be adjusted only when it fails to operate properly. (Consult your dealer when adjustment is necessary.)


1. Use the slow speed adjusting screw to adjust the slow speed revolutions.
  - Right turns: Increase the revolution speed.
  - Left turns: Slow down the revolution speed.

 Increasing the slow revolution excessively causes the driven equipment unable to stop even if the throttle lever is returned. The revolution speed should not be increased excessively.

2. In case with the slow speed fuel adjusting screw Normal position is where it is returned by one turn from the fully closed position (right turn).
  - Right turns: Increase the thickness of fuel.
  - Left turns: Decrease the thickness of fuel.

3. In case with the high speed fuel adjustment screw
  - Right turns: Decrease the thickness of fuel.
  - Left turns: Increase the thickness of fuel.

 Fuel adjustment for the carburetor is completed at the optimum condition before shipping from the factory. When it is necessary to adjust, consult your dealer.

 Do not decrease the thickness of fuel too much. (It could result in the seizure trouble of engine.)






### INSPECTION AND SERVICE

Table of regular inspections

Item \ Time	Before Each Operation	At Every 50-hours	At Every 100-hours	2 Years
Inspection and retightening of bolts, nuts	✓			
Inspection of fuel leakage	✓			
Inspection, cleaning of air cleaner	✓			
Cleaning at cooling air inlet, cooling fin and around muffler	✓			

## 1. Safe Operation

### EXPLANATION OF SYMBOLS AND SAFETY WARNINGS

-  Read operator's instruction book before operating this machine.
-  Use the chain saw with two hands.
-  Read, understand and follow all warnings.
-  Wear head, eye and ear protection.
-  Warning! Danger of kickback.



WARNING!!!



RISK OF DAMAGING HEARING

IN NORMAL CONDITIONS OF USE, THIS MACHINE MAY INVOLVE A DAILY LEVEL OF PERSONAL EXPOSURE TO NOISE FOR THE OPERATOR EQUAL TO OR GREATER THAN 85 dB(A)

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✉: [info@kisankraft.com](mailto:info@kisankraft.com)

☎: +91.80. 68357800



1. Never operate a chain saw when you are fatigued, ill, or upset, or under the influence of medication that may make you drowsy, or if you are under the influence of alcohol or drugs.



2. Use safety footwear, snug fit-ting clothing and eye, hearing, and head protection devices. Use the vibration-proof glove.



3. Keep the saw chain sharp and the saw. Including the AV system. Well maintained. A dull chain will Increase cutting time, and press- in a dull chain through wood will increase the vibrations transmit- ted to your hands. A saw with loose components or with dam- Aged or worn AV buffers .will also tend to have higher vibration levels.



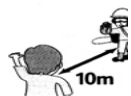
4. All the above mentioned pre- cautions do not guarantee that you will not sustain white finger disease or carpal tunnel sync- dome.

Therefore, continual and regular users should monitor closely the condition of their hands and fin- gears. If any of the above seems- Toms appear, seek medical advice immediately.



5. Always use caution when handling fuel. Wipe up all spills and then move the chain saw at least 3 m from the fueling point before starting the engine.

6. Eliminate all sources of sparks or flame (i.e. smoking, open flames, or work that can



cause sparks) in the areas where fuel is mixed, poured, or stored.



7. Do not smoke while handling fuel or while operating the chain saw.



8. Do not allow other persons to be near the chain saw when starting or cutting. Keep bystanders and animals out of the work area. Children, pets and bystanders should be a minimum of 10 m away when you start or operate the chain saw.



9. Never start cutting until you have a clear work area, secure footing, and a planned retreat path from the falling tree.



10. Always hold the chain saw firmly with both hands when the engine is running. Use a firm grip with thumb and fingers encircling the chain saw handles.



11. Keep all parts of your body away from the saw chain when the engine is running.



12. Before you start the engine, make sure the saw chain is not contacting anything.



13. Always carry the chain saw with the engine stopped, the guide bar and saw chain to the rear, and the muffler away from your body.

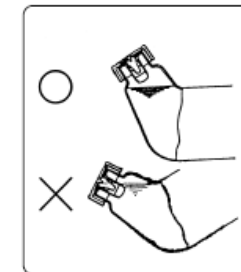


14. Always carry the chain saw with the engine stopped, the guide bar and saw chain to the rear, and the muffler away from your body.

- When there is no subsequent work, drain the fuel from the fuel tank and restart the engine to use up the fuel remaining in the carburetor.

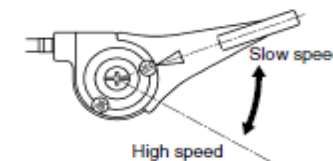
**CAUTION**

- Place the engine at a horizontal position when the driven equipment is not used at the rest time, or others, in summer season. (If the tank is tilted as much as the inside of fuel cap is submerged in the fuel, the fuel may leak.)
- Do not touch the engine body, especially the muffler, during or immediately after stopping the operation. (There is risk of burn.)



**PRECAUTIONS DURING OPERATION**

- After starting the engine, set the throttle lever at the slow speed position and warm up the engine for approx. 2~3 minute. As the engine worms up, the engine will be accelerated smoothly.
- Do not attempt to raise the engine speed abruptly immediately after the start because the lubrication oil may not be distributed yet all over the engine.
- If the throttle lever is turned to the fully opened position, the revolution speed picks up to a considerably higher level, which could not only shorten the life of engine but also cause trouble. It should be avoided to race the engine at high speed under no load condition or raise the speed unnecessarily.
- Before starting operation, make sure to inspect the engine in accordance with the "Inspection before starting the engine".
- Do not operate the engine at the indoor or a place with poor ventilation. (Exhaust gas contains odorless and harmful carbon monoxide.)
- Do not insert in or approach hands or foot at the moving or rotating sections.
- Stop the engine immediately if it has been discovered any leakage of fuel or gas from the carburetor, muffler, fuel tank, crankcase, cylinder or mating face at respective sections. (Contact a dealer or service center for repair.)
- Do not change the setting revolution speed of engine unnecessarily.
- Be careful not to touch highly heated muffler or sections on the engine to avoid possible risk of burn.



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- If you move the throttle lever to the high-speed side a little after the engine has started, the starter lever returns to the operating position. Continue the warm-up operation for 2 to 3 minutes in this condition. Observing the condition of the engine, move the throttle lever to a desired engine speed.

**START**
**⚠ CAUTION**

- Before starting the engine, confirm that the area of radius 15 m around the engine is completely evacuated.
- Do not operate the engine when any flammable material (gasoline, volatile chemicals, or others) is present around it.
- Driven equipment may start simultaneously with the start of engine. Carefully read the instruction manual of the equipment and start the engine carefully.
- When a class FC oil is used, a larger resistance may be felt when pulling the recoil starter grip under low temperature condition or at the initial operation at the next season. This is related to the characteristic of the oil and there is no problem on the engine. Once started, it will return to the normal condition

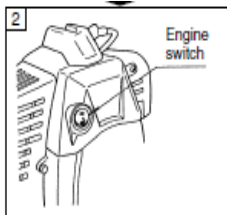
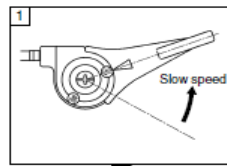
**Concerning New Start System**

It can start even if it is pulled slower than normal.

- If the rope is pulled (vigorously) till it will not come out any more, it could damage the recoil mechanism.
- Do not disassemble the recoil.  
It is dangerous to disassemble the inside of recoil. (Consult your dealer when it is necessary to replace related parts.)
- If the decompression slot of cylinder is clogged, the engine may start slower than normal. Clean the slot to restore the normal condition.

**STOP**

- Set the throttle lever at the slow speed position.
- Turn the engine switch to the "OFF" position. (Switch position may vary depending on the specifications. Refer to the instruction manual of driven equipment.)  
In chase of a push button type switch, keep pressing the push button till the engine stops completely.
  - Replenish the fuel before using up completely. It will make easier at the next starting.



15. All chain saw service, other than the items listed in the Owner's Manual, should be performed by competent chain saw service personnel. (E.g., 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 which could subsequently cause the flywheel to disintegrate.)



- Always shut off the engine before setting it down.



- 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.



- Never cut in high wind, bad weather, when visibility is poor or in very high or low temperatures. Always check the tree for dead branches which could fall during the felling operation.



- Keep the handles dry clean and free of oil or fuel mixture.



- Operate the chain saw only in well ventilated areas. Never start or run the engine inside a closed room or building. Exhaust fumes contain dangerous carbon monoxide.

- Do not operate the chain saw in

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a tree unless specially trained to do so.

- Guard against kickback. Kickback is the upward motion of the guide bar which 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.

- When transporting your chain saw, make sure the appropriate guide bar scabbard is in place.

**KICKBACK SAFETY PRECAUTIONS FOR CHAIN SAW USERS**
**⚠ 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 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.

**WARNING!**

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.

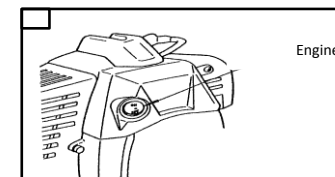


1. With a basic understanding of kickback you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.
2. Keep a good grip on the saw with both hands, the right hand on the rear handle. And the left hand on the front handle. When the engine is running Use a firm grip 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 the manufacturer's sharpening and maintenance instructions for the saw chain. Only use replacement bars and chains specified by the manufacturer or the equivalent

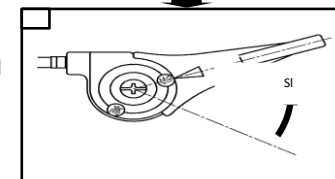


**START (STARTER LEVER TYPE UNIT)**

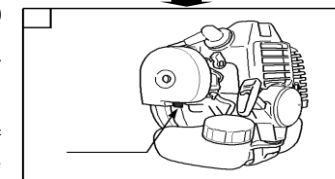
1. Turn the engine switch to the "ON" side.



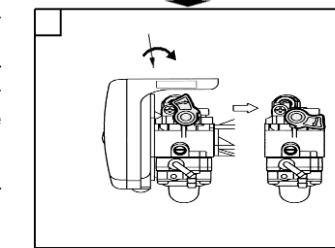
2. Set the throttle lever at the slowest speed position.



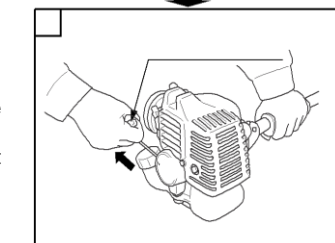
3. Push the priming button repeatedly with finger till it hits the top. (More than 10 times)  
Pressing the priming button is necessary to prime the fuel to facilitate the start-up. Since any excess amount of primed fuel returns to the tank, there is no problem of over-priming. Prime the fuel rather more than sufficiently to avoid starting trouble.



4. Turn down the starter lever of carburetor to set it at the start position.  
It is not necessary to operate the starter lever when the engine is warmed up (For about 15 minutes after stopping the engine.)  
(To be left in the operating position)  
Depending on specifications, the starter lever may be provided at the throttle wire side.



5. While holding down the engine firmly, grasp the recoil starter grip and pull vigorously






**CAUTION:**

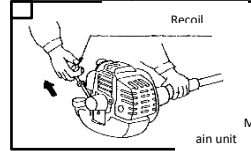
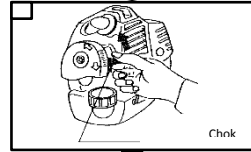
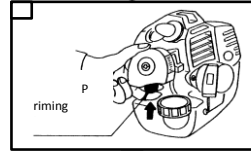
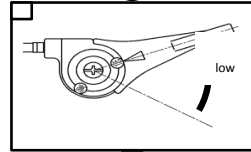
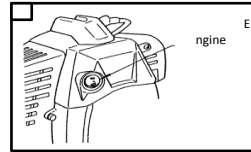
- a) When the engine stops on the way after starting, or
- b) When the engine fails to start after trying the recoil operation for 7 to 8 times.

Return the starter lever to the operating position and try the recoil operation.

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**METHODS OF STARTING & STOPPING THE ENGINE**
**START (CHOKE TYPE UNIT):**

1. Turn the engine switch to the "ON" side.
2. Set the throttle lever at the slow speed position.
3. Push the priming button repeatedly with finger till it hits the top. (More than 10 times) Pressing the priming button is necessary to prime the fuel to facilitate the start-up. Since any excess amount of primed fuel returns to the tank, there is no problem of over-priming. Prime the fuel rather more than sufficiently to avoid starting trouble.
4. Turn the choke lever to the fully closed position (at the  Mark).  
When sufficient fuel is retained and the engine is warm, set the choke lever at the fully opened position (at the  mark)
5. While holding down the engine firmly, grasp the recoil starter grip and pull vigorously
6. When the engine has started, return the choke lever gradually to the fully opened position (at the  Mark).  
If only exploding sounds are heard, but it does not start, return the choke lever to the fully closed position and pull the starter grip vigorously once again.


**2. Explanation of Symbols on the Machine**
**⚠ WARNING!**

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



The port to refuel "MIX GASO- LINE"  
Position: Fuel cap



The port to top up chain oil  
Position: Oil cap



Setting the switch to the "I" position, the engine starts.  
Setting the switch to the "O" position, the engine stops immediately.  
Position: Front at the top of the rear handle



Starting the engine. If you pull out the choke knob (at the back-right of the rear handle) to the point of the arrow, you can set the starting mode as follows:  
First-stage position - starting mode when the engine is warm.  
Second - stage position - Starting mode when the engine is cold.  
Position: Upper-right of

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## INSPECTION OF RESPECTIVE SECTIONS:

Make sure to inspect these sections before operating the engine.

### Inspection of fuel

- Is sufficient quantity of oil reserved?
- Is not the fuel degenerated?
- Use the proper fuel referring to the "Fuel" section.

### CAUTION

- Sufficient care must be taken on the fire not only when replenishing but also handling fuel. It could cause fire or explosion.
- Securely close the oil tank cap. Fuel may leak if the cap is tightened aslant. It will never leak if the cap is tightened properly.  
(Excluding: TL tank cap breather type)

### Inspection of clogging

- Check the cooling fins, around the muffler and cooling air inlet for trash or withered grasses trapped.
- Remove them if necessary

### Inspection of air cleaner

- Is not fouled the air cleaner element?
- When the element is fouled or it is not impregnated with oil, inspect and service it in accordance with "Inspection and servicing before each operation"

### Inspection of screws and nuts

- Check respective sections for loose or missing screws or nuts.
- Service them if necessary.

### Inspection of fuel pipes

- Check for cracks or fissures on the fuel pipe and grommet, disconnection or fuel leakage from joints on the fuel tank and carburetor.

### CAUTION

Cracks, fissures or disconnection from joints could cause fire or explosion by leaked fuel. Service or replace damaged fuel pipe and grommet.

H

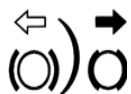
The screw under the "H" stamp is The High-speed adjustment screw.

L

The screw under the "L" stamp is The Slow-speed adjustment screw.

T

The screw at the left of the "T" stamp is the Idle adjustment screw.



Position: Left side of the rear handle



Shows the directions that the chain brake is released (white arrow) and activated (black arrow).  
Position: Front of the chain cover

If you turn the rod by screw-driver follow the arrow to the 'MAX' position, the chain oil flow more, and if you turn to the 'MIN' position, less.  
Position: Bottom of the power unit

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### INSPECTION BEFORE OPERATING THE ENGINE

**FUEL:** Use mixed oil of ordinary regular petrol for vehicle and special 2-cycle engine oil with the proportion as shown by the following table.

Mixing ratio (Volumetric ratio):

Petrol : 2-cycle engine oil 40: 1
--------------------------------------

- Do not use degenerated oil (with sour smell).
- (It could cause engine trouble such as the starting error, insufficient output, etc.)
- Make sure to clean spilled fuel. It could foul clothes or cause fire.
- Do not use 4-cycle engine oil. (It could cause fouled plug, bound piston ring, clogged muffler, or other problem.)
- Take care while handling petrol. (As there is a risk of explosion.)

#### ADJUSTMENT OF THROTTLE WIRE:

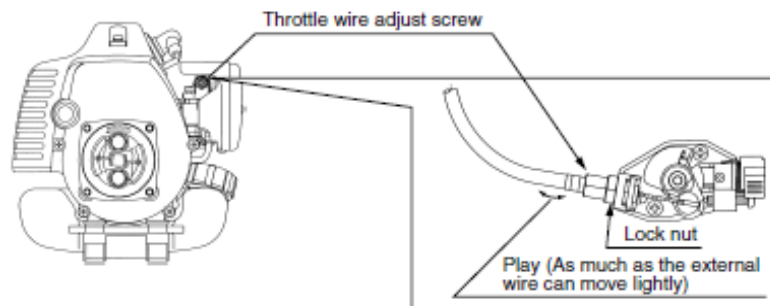
Adjust the play on the throttle wire to 0.5 ~ 1.0 mm.

#### LARGER PLAY

- It could cause the starting trouble.
- Revolution speed could rise unexpectedly when the external wire of throttle wire comes off from the position.

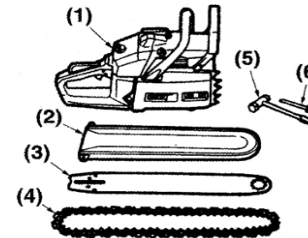
#### NO PLAY

- Driven equipment may fail to stop even if the throttle lever is returned.



### 3. Installing Guide Bar and Saw Chain

A standard saw unit package contains the items as illustrated.



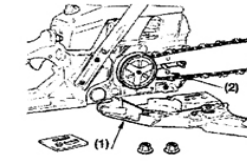
- Power unit
- Bar protector
- Guide bar
- Saw chain
- Plug wrench
- Screwdriver for carburetor adjustment

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 engaged.
2. Loosen the nuts and remove the chain cover
3. Gear the chain to the sprocket and while fitting the saw chain around the guide bar, mount the guide bar to the power unit.
4. Adjust the position of chain tensioner nut.



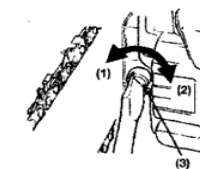
- (1) Chain cover
- (2) Chain Tensioner nut

#### NOTE

Pay attention to the correct Direction of the saw chain.



2. Fit the chain cover to the power unit and fasten the nuts to finger tightness
3. 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.
4. Tighten the nuts securely with the bar tip held up (12 - 15 Nm). Then check the chain for Smooth rotation and proper tension while Moving it by hand. If necessary, readjust with the chain cover loose.
5. Tighten the tensioner screw.



- Loosen
- Tighten
- Tensioner screw

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**NOTE**

A new chain will expand its

use. Check and read- just the tension frequently as a loose chain can easily derail or cause rapid wear of itself and the guide bar.

Length in the beginning of

**4. Fuel and Chain Oil**

**FUELING THE UNIT**

1. Untwist and remove the fuel cap. Rest the cap on a dustless place.

**FUEL**

**⚠ WARNING!**

Gasoline is very flammable than prescribed, there is a danger that the engine temperature may rise and an engine problem such as piston seizing may consequently occur. Avoid smoking or bringing any flame or sparks near fuel.



Make sure to stop the engine and allow it cool before refueling the unit. Select outdoor bare ground for fueling and move at least 3 m (10 ft) away from the fueling point before starting the engine.

Unleaded gasoline is recommended to reduce the contamination of the air for the sake of your health and the environment.

Poor quality gasolines or oils may damage sealing rings. Fuel lines or fuel tank of the engine.

The engines are lubricated by oil especially formulated for air-cooled 2-cycle gasoline engine use. Use an anti-oxidant added quality oil expressly labeled for air-cooled 2-cycle engine use (JASO FC GRADE OIL or ISO EGC GRADE)

- Do not use BIA or TCW (2-stroke water-cooling type) mixed oil.



**RECOMMENDED MIXING RATIO**  
**GASO- LINE 25 : OIL 1**

Exhaust emission are controlled by the fundamental engine parameters and components (eq., carburation, ignition timing and port timing) without addition of any major hardware or the introduction of an inert material during combustion.

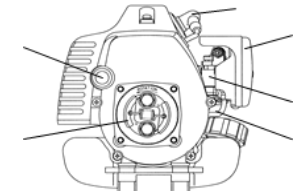
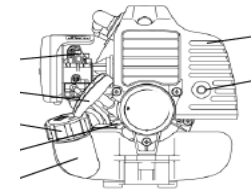
These engines are certified to operate on unleaded gasoline.

Make sure to use gasoline with a minimum octane number fo 89RON (USA/Canada: 87AL).

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**COMPONENTS OVERVIEW**



1. Recoil starter grip	8. Engine switch (Types vary depending on the specifications.)
2. Starter lever	9. Clutch
3. Cooling air inlet	10. Ignition plug cap
4. Fuel tank cap	11. Air cleaner
5. Fuel tank	12. Carburetor
6. Muffler	13. Priming button
7. Exhaust outlet (Types vary depending on the specifications.)	

- Do not touch parts of muffler or engine at high temperatures. (There is risk of burns.)
- Do not touch the ignition plug or high-voltage cord during operation. (There is risk of electric shock or physical injury.)
- Make sure to stop the engine whenever the work is interrupted or moving the engine to another place.
- Do not operate the engine alone. (It must be connected to the driven equipment when it is operated).
- Check frequently the parts used on the fuel line for cracks or leakage, and replace them if necessary.
- Remove dirt, grass or other trash from the cooling fins and the cooling air inlet. (Make sure to stop the engine and the driven equipment before the cleaning.)
- Make sure to use always new petrol. (Old petrol may cause sticky substance adhering at the inside of carburetor causing trouble in operation.)
- Before starting the engine, confirm that the area of radius 15 m around it is evacuated and no tank filled with fuel, or others are not left over.
- Use only genuine parts supplied from the manufacturer. Use of parts other than the genuine parts could cause engine trouble or premature abrasion.

**Note:** Important safety items quoted in this manual do not necessarily cover all situations or conditions that could occur. Although sufficient care has been taken to assure the safety of the engine, operators or service personnel must observe necessary precautions to operate it safely and protect themselves from possible dangers.

If you use a gasoline of a lower octane  
**HOW TO MIX FUEL**

**⚠ WARNING!** Pay attention to agitation

1. Measure out the quantities of gasoline and oil to be mixed.
2. Put some of the gasoline into, approved fuel container.
3. Pour in all of the oil and agitate well
4. Pour in the rest of gasoline and agitate again for at least one minute. As some oils may be difficult to agitate depending on oil ingredients sufficient agitation is necessary for the engine to last long. Be careful that, if the agitation is insufficient, there is an increased danger of early piston seizing due to abnormally lean mixture.
5. Put a clear indication on the outside of the container to avoid mixing up with gasoline or other containers.
6. Indicate the contents on outside of container for easy identification.

#### **FUELING THE UNIT**

1. Untwist and remove the fuel cap. Rest the cap on a dustless place.
2. Put fuel into the fuel tank to 80% of the full capacity.

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value

3. Fasten the fuel cap securely and wipe up any fuel spillage around the unit.

**⚠ WARNING!**

Select flat and bare ground for fueling.

1. Move at least 10 feet (3 meters) away from the fueling point before starting the engine.
2. Stop the engine before refueling the unit. At that time, be sure to sufficiently agitate the mixed gasoline in the container.

#### **FOR YOUR ENGINE LIFE, AVOID:**

1. FUEL WITH NO OIL (RAW GASOLINE) - It will cause severe damage to the internal engine parts very quickly.
2. GASOHOL - It can cause deterioration of rubber and/or plastic parts and disruption of engine lubrication.
3. OIL FOR 4-CYCLE ENGINE USE
4. It can cause spark plug fouling, exhaust port blocking, or piston ring sticking.
  1. Mixed fuels which have been left unused for a period of one month or more may clog the

carburetor and result in the engine failing to operate properly.

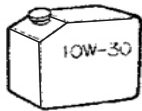
2. In the case of storing the product for a long period of time, clean the fuel tank after rendering it empty. Next,

activate the engine and empty the carburetor of the composite fuel.

3. In the case of scrapping the used mixed oil container, scrap it only at an authorized repository site

Moreover, normal wear and change in product with no functional influence Are not covered by the warranty. Also, be careful that, if the usage in the instruction manual is not observed as to the mixed gasoline, etc. described therein, it may not be covered by the warranty

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



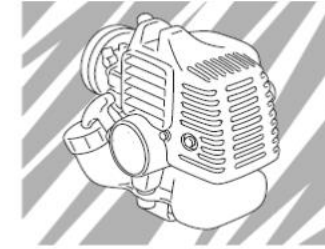
**NOTE**

Do not use wasted or regen- rated oil that can cause damage to the oil pump

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**2 - STROKE PETROL ENGINE- MANUAL**



**BEFORE GETTING STARTED**

This manual describes various cautions necessary to operate the engine properly. Before starting the engine, read the manual and understand the proper method of use. (Improper use of the engine could result in accident or injury.)  
Use the engine after reading and understanding also the manual of equipment driven by the engine.  
Keep the manual at a safe place where you can refer whenever needed.

**SAFETY INSTRUCTIONS**

- No person who does not understand the content of this manual should be allowed to operate the engine.
- Engine should not be operated indoors or in places with poor ventilation. (Exhaust gas contains odorless and harmful carbon monoxide.)
- Do not insert in or approach hands or foot near the moving or revolving sections.
- Do not store, spill or use petrol at the vicinity of fire, stove, furnace or devices using the pilot flame or sparks like water heater or others. (There is risk of explosion.)
- Do not refill the fuel indoors or at a place not well ventilated.
- Do not smoke while filling the fuel.
- Do not remove the fuel tank cap or refill the fuel while the engine is still running or immediately after operation when the engine is still hot. (Wait for more than 20 minutes after terminating the operation before refilling the fuel.)
- Do not operate the engine when petrol has spilled, smell of petrol is felt as there is a risk of explosion.
- Do not adjust the setting engine speed unnecessarily.
- Do not check sparks while the ignition plug is removed.
- Do not operate the engine with the muffler or air cleaner cover removed. (Inspect particularly the muffler at regular intervals for loose mounting screws, breakage or leakage, and repair or replace it if any abnormality is observed.)
- Do not operate the engine when grass, leaves or inflammable substances are sticking in or around the muffler.



. .	DESCRIPTION	QUANT ITY	REMARK S	DESCRIPTION	QUANTITY
54	clip	1	133	inlet pipe protector	1
55	sponge	1	134	inlet pipe	1
56	oil pipe	1	135	idle guide protector	1
57	oil pump sponge	1	136	inlet pipe holder gasket	1
58	oil pump	1	137	carburetor	1
59	oil pump cover	1	138	copper ring	1
60	hex M4*12	2	139	screw	1
61	worm	1	140	carburetor gasket	1
62	Sprocket	1	141	inlet pipe holder	1
63	long needle bearing	1	142	hex screw M5*12/black	8
64	clutch drum	1	143	inlet pipe	1
65	clutch gasket	1	144	gasket, inlet pipe	1
66	screw M4*6	3	145	spark plug	1
67	clutch	1	146	cover(up)	1
68	clutch spring	1	147	air filter	1
69	tension cover	1	148	empty cover	1
70	manifold	2	149	screw 5*39	1
71	screw	1	150	nut	1
72	Tension block	1	151	screw 8*85	2
73	tension screw	1	152	gasket, muffler	1
74	screw 4*8	5	153	muffler	1
75	brake spring cover	1	154	nut M5	2
76	brake band	1	155	bar protector	1
77	brake control	1	156	chain	1
78	brake spring(main)	1	157	bar	1
79	brake spring(second)	1	158	handle	1

## 5. Operating the Engine

### ⚠ WARNING!

It is very dangerous to run a chainsaw that mounts broken parts or lacks any parts. Before starting engine, make sure that all the parts including bar and chain are installed properly.

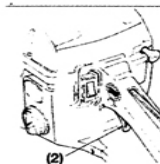
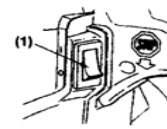
### STARTING THE ENGINE

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



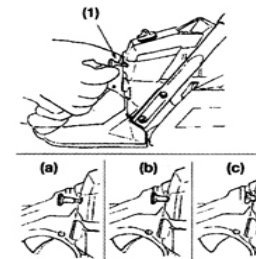
- Chain oil
- Fuel

2. Set the switch to "I" position.



- (1) Switch
- 3. Throttle lever
- 4. Throttle interlock

3. While holding the throttle lever together with the trigger safety, push in the side latch and release the throttle lever to leave it at the starting position.



- 1. ) Choke knob:
- 6. When the engine is cool
- 7. When the engine is warm up
- 8. After the engine starts

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**NOTE**

When restarting immediately after stopping the engine, set the Choke knob in the first-stage position (choke open and throttle lever in the starting position).

**⚠ WARNING!**

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

- CHECKING THE OIL SUPPLY

**NOTE**

Once the choke knob has been pulled out, it will not return to the operating position even if you press down on it with your Finger. When you wish to return the choke knob to the operating position, pull out the throttle Lever instead.

**⚠ WARNING!**

Make sure to set up the bar and the chain when checking the oil supply. If not, the rotating parts may be exposed. It is very dangerous.

After starting the engine, run the chain at medium speed and see if chain oil is scattered off as shown in the figure.

4. Ensure your machine has a primer (3), press it 3- 4 times to aid starting.

1. While holding the saw unit securely on the ground, pull the starter rope vigorously.



**⚠ WARNING!**

1. Do not start the engine while the Chain saw hangs in one hand. The saw chain may touch your body. This is very dangerous
2. When engine has ignited, first push in the choke knob to the first-stage position and then pull the starter again to start the engine.
3. Allow the engine to warm up with the throttle lever pulled slightly.

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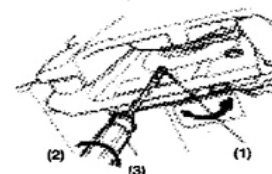
	DESCRIPTION	QUANTITY	REMARKS	DESCRIPTION	QUANTITY
33	Negative pressure nozzle	1	112	press-button shaft	1
34	Negative pressure nipple	1	113	press-button	1
35	Insulated tubular	1	114	press-button spring	1
36	35 inner jump ring	1	115	anti-vibration gasket	1
37	bearing 6202	2	116	long anti-vibration	2
38	crank case gasket	1	117	dust cap	4
39	dust excluding plate	1	118	crankshaft	1
40	pin 5*10	3	119	pin 3*10	1
41	right crank case anti-vibration	1	120	gasket	2
42	right crank case	1	121	short needle bearing	1
43	Arrive tooth	1	122	clip, piston	2
44	utriform spring seat	1	123	piston	1
45	utriform spring	1	124	piston pin	1
46	Block chain	1	125	piston ring	2
47	Oil outlet cover plate	1	126	cylinder gasket	1
48	hex boltM4*10	3	127	cylinder	1
49	screw 8*42	2	128	throttle puller cover	1
50	oil filter	1	129	throttle puller	1
51	oil pipe	1	130	anti-vibration	1
52	oil seal 15*28*4.5	1	131	oil push spring	1
53	small Ventilation	1	132	hex screw M5*50/black	2

	DESCRIPTION	QUANTITY	REMARKS	DESCRIPTION	QUANTITY
9	starter large spring	1	88	basic brake lever comp	1
10	small rope pulley	1	89	Oil baffle plate	1
11	gasket 5*16*1.5	1	90	Front baffle	1
12	air deflector	1	91	Brake pin 4*29	1
13	oil filler cap	1	92	clip M4	1
14	gasket, oil filler cap	1	93	Limit plate	1
15	oil shot	1	94	Brake torsion spring	1
16	bolt,M5*20(hex)/black	6	95	gasket6*22*1.5	1
17	ignition coil	1	96	clip,M5	1
18	nut,M8*1/black	1	97	Cover buckle rubber	1
19	fly wheel	1	98	fuel cover	1
20	oil seal holder	1	99	gasket, fuel cover	1
21	extinguishing line	1	100	fuel shot	1
22	switch	1	101	screw5*16	1
23	connector	1	102	crank case	1
24	bolt,M5*10(hex)/black	1	103	trigger spring	1
25	switch protector	1	104	trigger	1
26	bolt,M5*30(hex)/black	5	105	pin 5.4*25	1
27	screw 5*14	9	106	fuel filter	1
28	Short shock absorption	3	107	fuel pipe	1
29	oil seal 15*35*4.5	1	108	balancer seat	1
30	left crank case anti-vibration	1	109	balancer	1
31	left crank case	1	110	handle cover(back)	1
32	spark plug protector	1	111	Trigger arm	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.



- 1.Chain oil flow adjusting shaft
2. Rich
3. Lean

**NOTE**

Be sure to adjust the carburetor with the bar chain attached

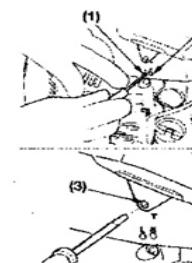
1. "H" and "L" needles are restricted within the number of turn as shown below.
2. "H" needle: -1/4 "L" needle: -1/4
3. Start the engine and allow it to warm up in low speed for a few minutes.
4. Turn the idle adjusting screw (T) counter- clockwise so that the saw chain does not turn. If the idling speed 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.

**NOTE**

Over revolution of "H" needle causes a lack of power or a poor acceleration. In such a case please turn the "H" needle a little counterclockwise.

**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 saw.

**•ADJUSTING THE CARBURETOR**


- (1)"1" needle
- "H" needle
- Idle adjusting screw

When adjusting, take the following steps

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**CHAIN BRAKE**

This machine is equipped with an automatic brake to stop saw chain rotation upon occurrence of kickback during saw cutting.

The brake is automatically operated by inertial force, which acts on the weight fitted inside the front guard.

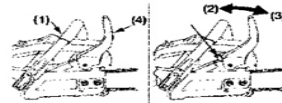
This brake can also be operated manually with the front guard turned down to the guide bar.

To release the brake. Pull up the front guard toward the front handle till a "click" sound is heard.

The carburetor has been adjusted at the factory. Should your unit need readjustment due to the changes in altitude or operating conditions, please let your skillful dealer make the adjustment.

A wrong adjustment may cause

damage to your unit.



**Caution**

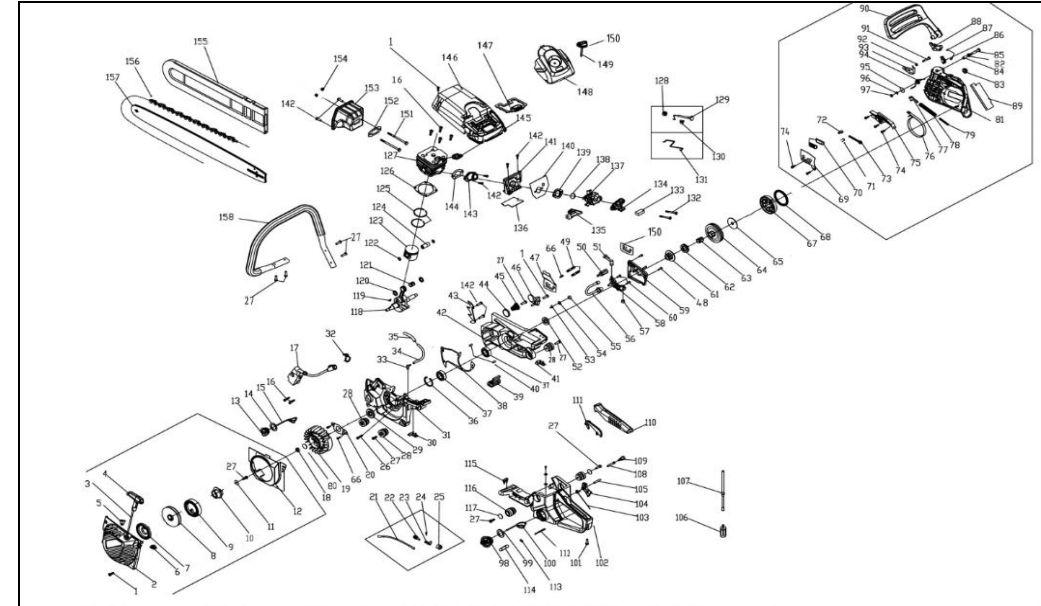
- (1) Front handle
- (2) Released
- (3) Braking
- (4) Brake lever

If you have to make the adjustment yourself, please follow the procedure below carefully.

Before adjusting the carburetor, make sure that the provided air/fuel filters are clean and fresh and the fuel. Properly mixed.

Be sure to confirm brake operation during daily inspection.

**Chain Saw Part Diagram**



.	DESCRIPTION	QUANT ITY	REMARK S	DESCRIPTION	QUANTITY
1	bolt,M5*14(hex)/black	10	80	M8 spring gasket	1
2	starter cover	1	81	Triangle plate	1
3	starter puller	1	82	clip M3	1
4	starter puller	1	83	nut,M8*1.25	2
5	puller protector	1	84	pin 8*12.5	1
6	LH protector	1	85	Brake pin6*30	1
7	starter small spring	1	86	brake lever comp	1
8	large rope pulley	1	87	cylindrical pin 3*8	2

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## 10. Technical Specifications

1	Chain saw Model	<b>AY-CSP-6118-AY-CSP-6120- AY-CSP 6122</b>		
2	Mass ( without guide bar and chain)	5.50 (kg)		
3	Dimensions ( without guide bar and chain)	410x235x265 (mm)		
4	Fuel	Mixture (Gasoline 25: Two-cycle oil 1 )		
5	Fuel tank capacity	550 (ml)		
6	Chain oil	Motor oil SAE#10W-30		
7	oil tank capacity	260 (ml)		
8	Engine displacement	58cc		
9	Maximum engine power	2.2 kW (2.95 hp)		
10	Maximum engine speed with cutting attachment	10000rpm		
11	Maximum Engine speed at idling	2800rpm		
12	Maximum cutting length	450/500(MM)		
13	Sprocket	7Tx0.325		
15	Saw chain pitch	0.325(in)		
16	Saw chain gauge	0.058(in)		
17	Guide bar type	Sprocket nose or Hard nose		
18	Saw e bar size (inches)	18"	20"	22"
19	Net weight	7.30K	7.70Kg	8.3Kg
20	Oil feeding system	Automatic pump with adjuster		

**NOTICE: Specifications are subject to change without notice**

### 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.



In case the brake is not effective, ask our dealer for inspection and repairs.

If the engine keeps rotating at high speed with the brake engaged, the clutch will overheat causing trouble.

When the brake engages during operation, immediately release the throttle lever to stop the engine.

### CARBURETOR ANTI-FREEZE MECHANISM

Operating chain saws 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

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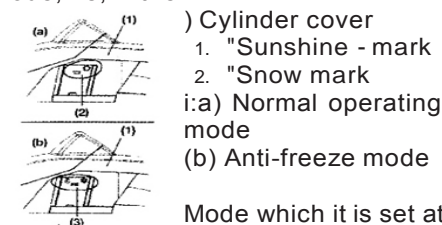
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to be reduced or for the engine to fail to operate smoothly.

This product has accordingly been designed with a ventilation hatch on the right side of the Surface of the cylinder 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 the normal operating mode, i.e, in the



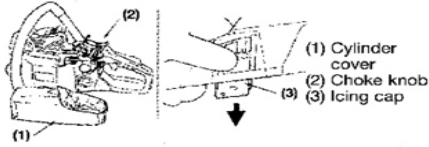
Mode which it is set at the time of shipment.

However when the possibility exists that icing may occur, the unit should be set to operate in the antifreeze a mode before use

### NOTE

Continuing to use the product in the 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 the normal operating mode if There is no danger of icing oncoming.

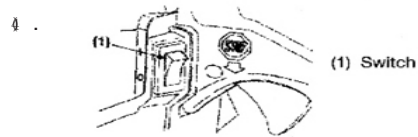
**HOW TO SWITCH BETWEEN OPERATING MODES**



1. Flip the engine switch to turn off the engine.
2. Remove the cover to the air filter, remove the air filter, and then remove the choke knob from the cylinder cover.
3. Loosen the screws holding the cylinder cover in place (i.e., the three screws on the inside and the one screw on the outside of the Cover), and then remove the cylinder cover.
4. Press with your finger down on the icing cap located on the right-hand side of the cylinder cover to remove the icing cap.
5. Adjust the icing cap so that the "snow" work faces upwards and then return it to its original position in the cylinder cover.
6. Fix the cylinder cover back into its original position, and then fix all other parts back into their proper positions.

**STOPPING THE ENGINE**

- ⌘ Release the throttle lever to allow the engine to idle for a few minutes
- ⌘ Set the switch to the "O" (STOP) Position



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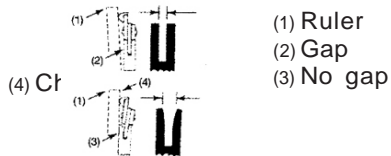
**9. Troubleshooting Guide**

PROBLEM	CAUSE	REMEDY
1. Starting failure	Check fuel for water or substandard mixture.	Replace with proper fuel.
<b>WARNING</b> Make sure the icing prevention system is not working.	Check for engine flooding	Remove and dry the spark plug.
	Check spark ignition.	Then pull the starter again with no choke.
2. Lack of power/Poor acceleration/Rough idling	Check fuel for water or substandard mixture.	Replace with proper fuel.
	Check air filter and fuel filter for clogging.	Clean
	Check carburetor for inadequate adjustment.	Readjust speed needles.
3. Oil does not come out	Check oil for substandard quality	Readjust speed needles.
	Check oil passage and ports for clogging.	Replace
		Clean

- Reverse the bar occasionally to prevent partial wear.
- The bar rail should always be 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. After each cutter has been filed, check the depth gauge and file it to the proper level as illustrated.

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



#### 4. Chain maintenance table

**WARNING!** The characteristic data of the chain and bar homologated for this machine

are shown in the “EC Conformity Statement” that accompanies same machine. Do not use other types of chain or. Bar for safety reasons.

The table gives the sharpening data for different types of Chain. Without this giving the possibility of using chains other than me homologated one.

Chain stroke		limiter tooth level(a)		File diameter(d)	
inches	mm	inches	mm	inches	mm
3/8mini	9.35	0.018	0.45	5/32	4.0
0.325	8.25	0.026	0.65	3/16	4.8
3/8	9.32	0.026	0.65	13/64	5.2
0.404	10.26	0.031	0.80	7/32	5.6

## 6. Sawing

**WARNING!**



• Before proceeding to your job, read the section "For Safe Operation". 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 to the PTO other than those 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

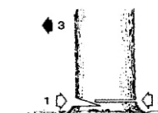


This saw is equipped with a chain brake that will stop the chain in the event of kickback if operating properly. You must check the chain brake Operation before each usage by running the saw at full the throttle for 1-2 Seconds and pushing the front hand guard forward. The chain should stop immediately 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 kick-back safety level of this saw. Removal of the safety devices. Inadequate maintenance. Or incorrect replacement of the bar or chain may increase the risk to serious personal injury due to kickback.



#### FELLING A TREE



- Notch cut
- Felling cut
- Felling direction

• Decide the felling direction considering the wind, lean of the tree. Location of heavy branches, ease of completing the task after felling and other factors.

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- While clearing the area around the tree, arrange a good foothold and retreat path
- Make a notch cut one-third of the way into the tree on the felling side.
- Make a felling cut from the opposite side of the notch and at a level slightly higher than the bottom of the notch.
- Cutting the limbs of Fallen Tree

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.

## 8. Maintenance of Saw Chain and Guide Bar

### 1. Saw Chain

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

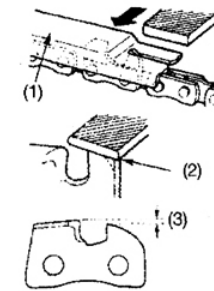
The cutters need to be sharpened when:

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

#### Cutter setting standards

**⚠ WARNING!**

Be sure to wear safety Gloves.



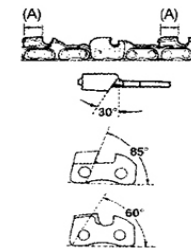
- Appropriate gauge checker
- Depth gauge standard
- Make the shoulder round: (see "Chain maintenance table")

Make sure every cutter has the same length and edge angles as illustrated.

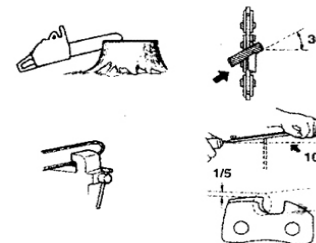
#### Before filing:

- Make sure the saw chain is held securely. Make sure the engine is stopped.
- Use a round file of proper size for the chain (see "Chain maintenance table").

Place the file on the cutter and push straight forward. Keep the file position as illustrated.



- (A) Cutter length
- 1. Filing angle (85°)
- Side plate angle (60°)
- Top plate cutting angle



### 4. Guide Bar

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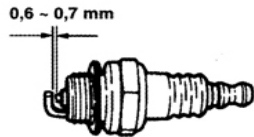
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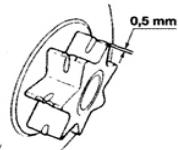
**NOTE**

- 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 fibers or dust inside the suction pipe.
- Spark plug  
Clean the electrodes with a wire brush and reset - the gap to 0.65 mm as necessary.



- Sprocket

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



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**⚠ WARNING!**

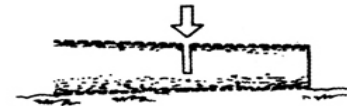
When you fell a tree, be sure to warn neighboring workers of the danger.

**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.

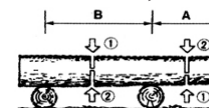
Before starting work, check the direction of bending force inside the log to be cut. Always finish cutting from the opposite side of the bending



direction to prevent the guide bar from being caught in the cut.

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.



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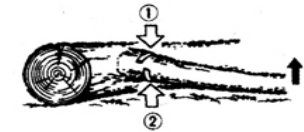
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**⚠ WARNING!**

Be alert to the springing

A log lying on the ground

Saw down halfway, then roll the log over and cut from the opposite side. back of a cut limb.



Pruning of Standing Tree

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

**⚠ WARNING!**

Do not work standing on unstable bases or rung ladders.  
Do not overreach.  
Do not cut above shoulder height.  
Always use both your hands to hold the saw.

## 7. Maintenance

### ⚠ WARNING!

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

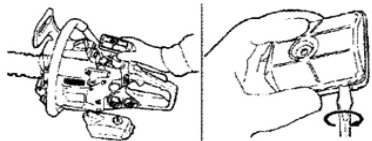
### MAINTENANCE AFTER EACH USE

#### 1. Air filter

Loosen the knob and remove the air cleaner cover.

Take off the filter element and brush off attached sawdust. When the filter is clogged with dust. Separate it in halves and shake-wash with gasoline.

When using compressed air. Blow from the inside.



To assemble the cleaner halves. Press the rim until it clicks.

### NOTE

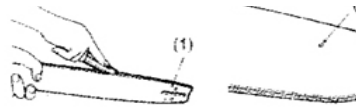
When installing the main filter, make sure that the grooves on the filter edge are correctly fit with the projections on the cylinder cover.

#### 2. Oiling port

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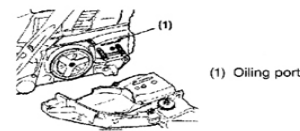
#### Guide bar

When the guide bar is dismounted. remove saw- dust in the bar groove and the oiling port.  
Grease the nose sprocket from the feeding port on the tip of the bar



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

Dismount the guide bar and check the oiling port for clogging.



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 the saw again.

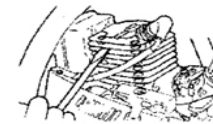
### PERIODICAL SERVICE POINTS

#### 1. Cylinder fins

Dust clogging between the cylinder fans 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

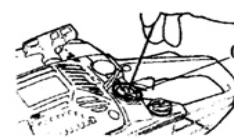


### NOTE

Be sure to block the air intake hole.

#### 2. Fuel filter

1. Using a wire hook, take out the filter from the filler pol.



• Fuel filter

2. Disassemble the filter and wash with gasoline. or replace with a new one if needed

#### 2 Front and Rear dampers

Replace if adhered part is peeled or crack is observed on the rubber part. Replace if the inside of the rear damper metal has been beaten by the stopper bolt and the clearance of the metal increased.

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