

User Manual


AGRIMATE[®]
Maximum Power - Super Economy



Gasoline Chain Saw

AM-CS-5918WC

AM-CS-5918HC

AM-CS-5922HC



BEFORE OPERATING THIS APPLIANCE
PLEASE READ THESE INSTRUCTIONS CAREFULLY

Thank you for purchasing Ratnagiri impex chain saw which is one of the finest and most advanced chain saws today's technology can produce. Before you begin using it, please read this manual carefully and familiarize yourself with the control and the proper use of this product to ensure you get the best possible performance from it.

IMPORTANT INSTRUCTIONS FOR YOUR PERSONAL SAFETY

Before using the chain saw, read the operating instructions and act accordingly.

ATTENTION: You run the risk of injury if you use the chain saw incorrectly. It is imperative that you read these Operating Instructions and follow the instructions given.

A) General safety instructions

- Do not allow children less than 18 years of age, nor anyone who is not familiar with these instructions to use the petrol chain saw.
- The chain saw should be used by trained and experienced persons only.
- Keep the operating instructions for future reference.
- Do not operate this equipment when tired, ill, or under the influence of alcohol, drugs or medication.
- Only operate the chain saw if physically fit and alert.
- Obey all safety instructions and warnings.

B) Instructions on the proper use of personal protective clothing

Working with a chain saw requires special measures with regard to protective equipment and clothing suitable for protecting your head, hands, feet, legs, eyes and ears.

- Keep body parts away from the chain.
- Wear close fitting clothing which cannot get caught in moving parts.

- Always wear an approved safety helmet when felling trees and removing branches.
- Always wear safety goggles and/or a face guard.
- Always wear suitable heavy-duty protective gloves.
- Wear ear protection to avoid damage to your hearing.
- Wear safety clothing including sturdy, non-slip footwear.
- Wear leg guards.

C) Instructions on the safe use of the chain saw

ATTENTION: Read the operating instructions carefully and familiarise yourself in the correct use of the chain saw before using it for the first time.

- Before storage allow the engine to cool. When not in use, store the chain saw in a dry and locked place, out of reach of children.
- Use only genuine Ratnagiriimpex replacement parts when servicing or repairing the unit. These parts are available from your supplying dealer or service agent.
- Repairs may only be performed by authorized service agents.
- Avoid dangerous environments. Do not use the unit in poor light or in damp or wet locations. Do not use in the rain. Do not over-reach. Ensure good footing and balance is maintained.
- Inspect your petrol chain saw before each operation. Pay special attention to the chain-bar and chain. If any part is damaged or worn, repair or replace before operation.
- Always hold the chain saw firmly with both hands while working with it.
- No other person may be within the working range of the chain saw.

- When not in use put the chain saw down in such a manner that there is no risk of injury.
- Switch the device off, wait for the chain to come to a complete standstill and disconnect the spark plug before setting, servicing, cleaning, transportation or storage.
- Always use the chain cover when transporting the chain saw.
- Hold the chain saw firmly when starting. The chain and bar must be free.
- Before starting work ensure that you are standing firmly.
- Never cut with the tip of the bar – the chain saw may recoil (“kick-back”)
- Do not use the chain saw near combustible gases or dust – danger of explosion.
- Always ensure all handles and guards are fitted when using the chain saw. Ensure all screws and nuts are properly tightened before use.
- Only operate this chain saw once correctly and fully assembled.
- Switch the chain saw off immediately if you notice any changes in the machine.
- Always have a first-aid kit at hand in case of accidents.
- If the chain comes into contact with soil, stones, nails or other foreign objects, stop the chain saw immediately and check the chain as well as the bar.
- Never leave the chain saw unsupervised.
- Ensure that no chain oil penetrates into the soil or sewage. Always place the chain saw on something that will absorb any oil dripping from the bar or chain.
- Stop the engine and disconnect the spark plug if the chain saw becomes blocked.

- Never remove any of its components and never use a damaged or incomplete machine. Never modify any of the machine components.
- Do not use your petrol chain saw for any jobs other than those for which it was intended.

- **WARNING:** Petrol and its vapours are highly flammable. Always stop the engine before refueling. Do not smoke or light any flames while refueling. Wipe off any fuel that may have spilled. Refuel in a well ventilated area and never in closed environments. Start the engine away from the place where it was refueled. Ensure the tank cap is tightened properly. Return the chain saw to its normal operating position before starting.
- **CAUTION:** Exhaust fumes are toxic and asphyxiating. Inhalation may be lethal. Do not start the engine in closed or poorly ventilated environments.
- If the chain becomes jammed or blocked by obstacles, switch the engine off immediately and visually inspect the chain saw for damage. Note, if the chain saw is damaged, repairs and servicing must only be performed by authorised dealers and service agents.

D) Warning: Danger of recoil (“kickback”)

WARNING: While the engine is running, 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. Top 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 the operator to lose control of the saw which could result in the chain saw being flung upwards at high speed towards the person holding the chain saw and causing serious personal injury.

Do not rely exclusively on the safety devices built into your saw. As a chain saw user you should take several steps to keep cutting jobs free from accident or injury:

- With a basic understanding of kickback you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.
 - 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.
 - 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.
 - Do not overreach or cut above shoulder height.
 - Follow manufacturers sharpening and maintenance instructions for saw chain.
 - Only use replacement bars and chains specified by the manufacturer or the equivalent.
 - If possible, use a log stand for cutting loose logs.
 - Always keep aware of the bar tip relative to other objects.
 - Cut at high engine speeds. Never start the machine while the chain rests on an object.
 - Piercing cuts with the bar tip may only be performed by trained and experienced operators.
- E) Instructions on safe working techniques
- Always maintain a normal body posture when operating the device. Always keep your balance.
 - Do not work with your body bent forwards.
 - Do not work on ladders, scaffolding, walls or trees.
 - Do not use the chain saw above shoulder height.

- Do not cut plastic or other material. This chain saw is only intended for cutting wood.
- Ensure that the wood cannot twist while it is being cut.
- Never climb in a tree to cut branches.
- Watch out for splintering wood. While you are sawing you may be injured by flying wood chips.
- Do not use the chain saw to lever or move the wood.
- Only cut with the lower section of the saw. The saw will be repulsed towards you if you try and cut with the upper section of the saw.
- Ensure that the wood is free from stones, nails and other foreign objects.
- First-time users must obtain practical training in the correct use of the chain saw and the required safety equipment from an experienced operator.
- Keep the running chain saw from touching the ground or wire fences. Do not cut thin wood or timber that is already sawn into small pieces.
- Do not use the chainsaw as a lever for lifting or moving objects.
- Do not fasten tools or accessories to the chainsaw that are not specified by the chainsaw manufacturer.

ATTENTION: SAFETY FEATURES

Safety features are designed to protect you against injuries and must not be altered or circumvented.

Model No.	Ratnagiriimpex AM-CS-5918WC	Ratnagiriimpex AM-CS-5918HC	Ratnagiriimp AM-CS-5922HC
Engine Type	2-stroke, air-cooled	2-stroke, air-cooled	2-stroke, air-cooled
Engine displacement	58CC	58CC	58CC
Rated output power	2400W	2400W	2400W
Maximum engine speed	11000min-1	11000min-1	11000min-1
Engine speed (rotational frequency) at idling	3400min-1	3400min-1	3400min-1
Guide bar size	Oregon 18"	Kangxin 18"	Kangxin 22"
Chain pitch	0.325"	0.325"	0.325"
Fuel tank capacity	560ml	560ml	560ml
Oil tank capacity	260ml	260ml	260ml
Fuel mixing ratio	25:1	25:1	25:1

Warning Symbols



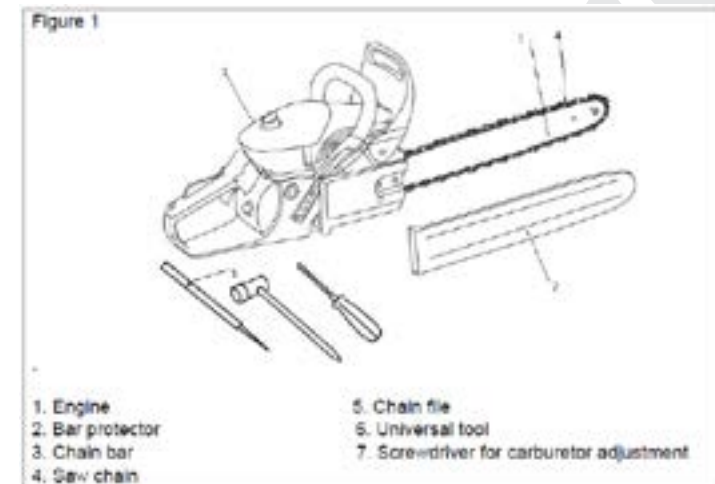
The following symbols appear on the chain saw. For safe operation and maintenance, please know what the symbols mean:

	Fuel tank cap
	Chain oil tank cap
	On/Off switch
	Choke
	Indication regarding the chain oil adjuster nut: "MIN" direction-the oil flow decrease "MAX" direction-the oil flow increase
	Carburetor adjustment symbols: The position of H-needle The position of L-needle The position of idle adjustment screw
	Chain Brake Symbol: Arrows show which direction to engage or disengage chain brake. Push the guard all the way forward to engage, and pull back to disengage.

ASSEMBLY OF CHAIN SAW

CAUTION: The saw chain has very sharp edges. Always use safety gloves when assembling the chain.

Your chain saw package contains the following items as illustrated in figure 1.



Assemble the guide bar and the saw chain on the power unit as follows:

1. Ensure the spark plug wire is disconnected and keep it away from spark plug.
2. Place the chain saw on a stable surface.
3. Pull the guard towards the front handle to check that the chain brake is not on (Fig.2).
4. Loosen the nuts (Fig.3a) and remove the chain cover (Fig.3b).
5. Install the included claw to the power unit (Fig.4) if it is not pre-fitted.
6. Gear the chain to the sprocket (Fig.5) and, while fitting the saw chain around the guide bar, mount the guide bar to the power unit (Fig.6).

NOTE:

Pay attention to the correct direction of the saw chain. The cutting teeth on the upper side of the bar must point in the forward direction (Fig.7)

7. Adjust the position of chain tensioner screw on the chain cover to the lower hole of guide bar (Fig.3b) If necessary, adjust the tensioner screw until the tensioner bolt is seated in the lower hole in the bar.

8. Fit the chain cover to the power unit and fasten the nuts (Fig.3a) to finger tightness.

9. Check that all chain links are seated correctly in the bar's groove and that the chain is fitted around the driving sprocket correctly.

10. While holding up the chain bar, adjust the chain tension by turning the tensioner screw until the chain links just touch the bottom side of the bar rail (Fig.8). The chain should be tensioned such that it can be lifted about 3 mm in the middle of the bar (Fig.8).

11. Tighten the chain cover nuts securely (12-15N.m). Check the chain for smooth rotation and proper tension while moving it by hand.

12. If necessary, readjust the tension of the chain by first loosening the chain cover nuts slightly, then again adjusting the chain tension by turning the tensioner screw. Securely retighten the chain cover nuts.

NOTE:

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

The chain tension has a significant effect on the life of the chain saw, and must therefore be checked regularly. When the chain warms up to operating temperature it will expand a little and might need to be re-tensioned.

Figure 2.

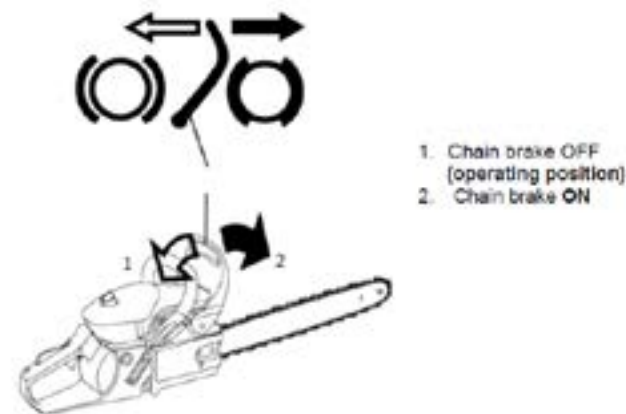


Figure 3a

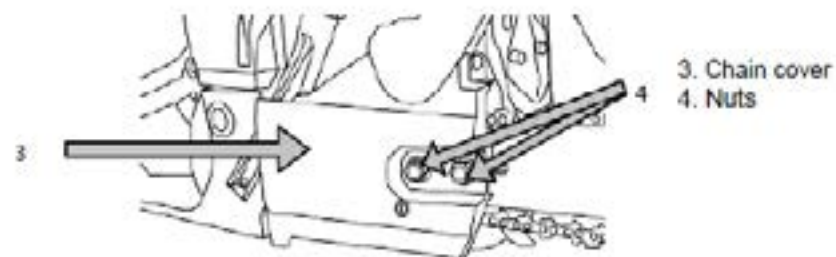
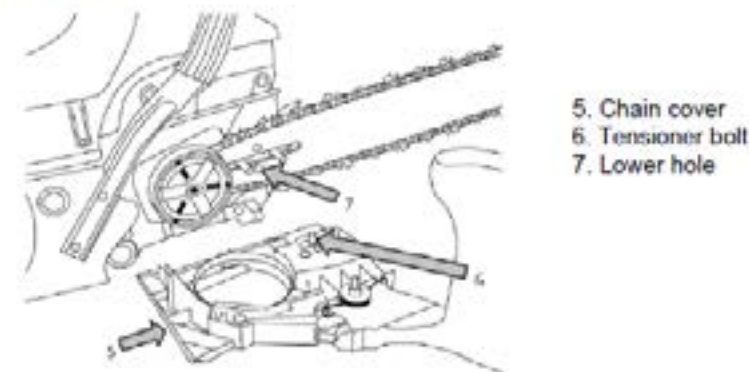


Figure 3b



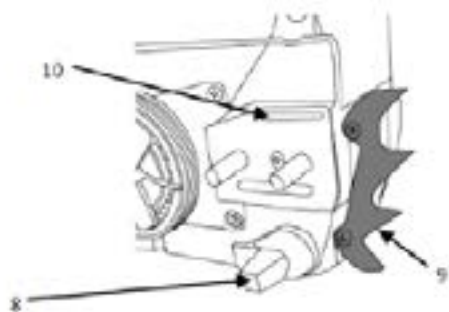
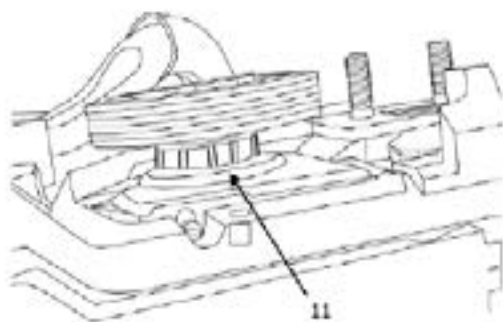


Figure 4

- 8. Chain catch bolt
- 9. Claw
- 10. Oiling port

Figure 5



11. Sprocket

Figure 6



Figure 7

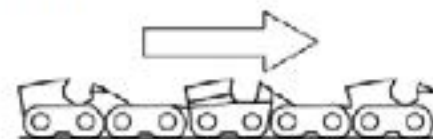
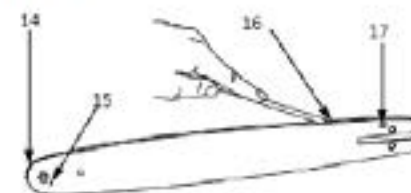


Figure 8



- 12. Tensioner screw
- 13. 3 mm clearance
- 1. Loosen
- 2. Tighten

Figure 9



- 14. Sprocket
- 15. Grease port
- 16. Bar groove
- 17. Oiling port

FUELLING

1. This product is equipped with a 2-stroke engine which requires 2-stroke lubricating oil to be pre-mixed with petrol. Mix both thoroughly (as per fuel-mix ratio) in a separate container. Always prepare the fuel-mixture and refuel the chainsaw outside in a well ventilated environment.
2. Use Lawn Star high performance 2-stroke oil (stock code 90-20000) and lead-free petrol (Octane 95).
3. Oil/Fuel mix ratio for normal 2-stroke engine oil - 1:25 (4%) e.g. 40 ml of oil per 1 litre of petrol

4. Always stop the engine before refueling. Do not smoke or light any flames while refueling.

5. Wipe off any fuel that may have spilled. Start the engine away from the place where it was refueled. Ensure the tank cap is tightened properly. Return chainsaw to its normal operating position before starting.

CHAIN OIL

The chain saw must never be operated without chain oil as this will cause damage to the chain, bar, and engine. No claims under warranty can be accepted if damage occurs due to the chain saw being operated without chain oil.

Use Lawn Star chain lube (stock code 90-30000). Alternatively motor oil grade SAE 10W-30 can be used.

NOTE: Do not use waste or recycled oil that can cause damage to the oil pump.

Fill approximately 260ml oil into the tank using a funnel and replace the cap securely.

Remove the chain oil from the oil tank if the chain saw is not used for a long period.

The oil tank should be emptied before the chain saw is transported.

After use, lay the chain saw horizontally on an absorbent surface.

BEFORE USING THE CHAINSAW

Before proceeding to your job, read "IMPORTANT INSTRUCTIONS FOR YOUR PERSONAL SAFETY" section.

Always follow the safety procedures and guidelines.

Check chain saw for damage before starting work.

Ensure that the chain tension is correct. If the chain is too loose, it may come off during use and lead to injuries. The chain must be replaced immediately if it is damaged. The cutting teeth must be at least 4 mm long.

Check the sharpness of the chain every time before using the chain saw. Sharpening a chain requires experience and specialised knowledge, therefore it is recommended that sharpening be carried out by a specialised workshop, or a new chain be used.

It is recommended to first practice sawing on smaller easier-to-cut logs.

This helps to get accustomed to the chainsaw.

SAFETY DEVICES ON THE CHAIN SAW CHAIN BRAKE

This machine is equipped with a mechanical chain brake. In the event of kickback, the chain brake guard (Fig.10-No.1) will be activated by the back of the operators hand and saw chain rotation will be stopped. The engine will continue to run until switched off.

Immediately release the throttle lever as soon as the chain brake is activated.

Switch the engine off as soon as possible if the chain brake is engaged to prevent the clutch from overheating.

The brake will only be activated if operating the chain saw correctly.

Always insure that the chain brake guard is locked into the operating position (Fig.2) before starting the chain saw.

CAUTION: The engine must be switched off before the chain brake is released.

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

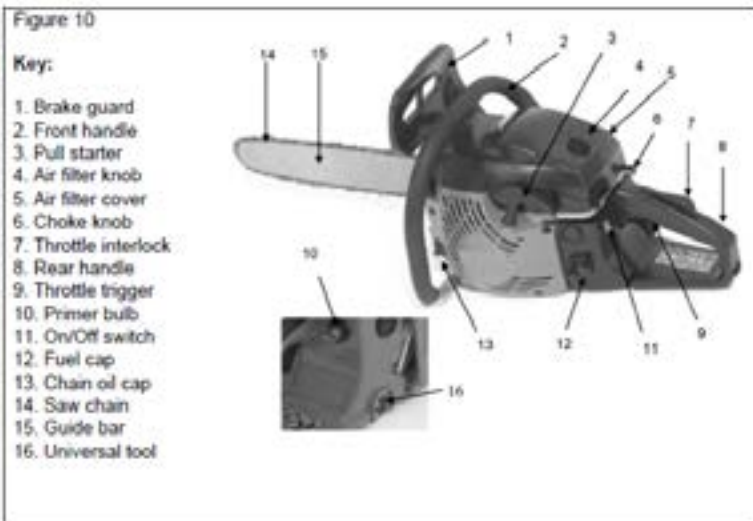
Check the chain brake operation before each usage by running the saw at full throttle for 1-2 seconds and pushing the front hand guard forward. The chain should stop immediately with the engine at full speed. If the chain is slow to stop or does not stop, have the brake band and clutch drum replaced or serviced before using the chain saw.

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

CHAIN CATCH BOLT

The chain saw is fitted with a chain catch bolt (Fig.4). Should the chain break when the saw is in use, the chain bolt will catch the loose chain end and thus prevent injury to the operator's hand.

- Take regular breaks.
- After use always place the chain saw horizontally to avoid oil dripping from the chain oil reservoir.
- Always use the chain cover when transporting the chain saw.
- Prevent the chain from contacting soil.



STARTING COLD ENGINE

1. Fill fuel (Fig.10-No.12) and chain oil (Fig.10-No.13) tanks respectively, and tighten the caps securely (refer to the "FUELING" and "CHAIN OIL" sections in this manual).
 2. Ensure safety brake guard (Fig.10-No.1) is pushed fully forwards towards the chain into the on position.
 3. Switch the ON/OFF switch (Fig.10-No.11) up into the "ON(I)" position.
 4. Pull out the choke knob (Fig.10-No.6) to the closed position.
 5. Press primer bulb slowly 5-10 times (Fig.10-No.10).
 6. While holding the chain saw securely on the ground (Fig.11), pull the starter cord (Fig.10-No.3) three times fully. The engine might start.
- WARNING: Keep clear of the saw chain as it will start rotating upon starting of the engine.
7. While holding the throttle lock-on button in (Fig.10-No.7), pull throttle trigger (Fig.10-No.9) to disengage the choke. If the engine stalled or did not start pull the starter cord (Fig.10-No.3) repeatedly until the engine starts.

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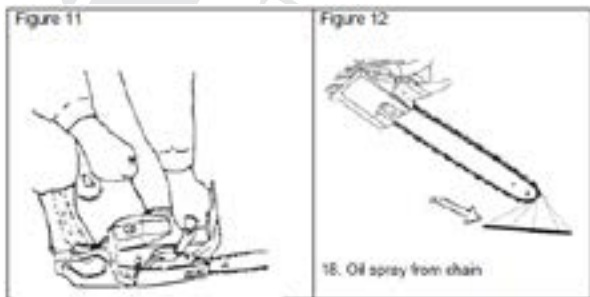
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8. Release safety brake guard (Fig.10-No.1) by pulling guard backwards into the off position.
9. Allow the engine to warm up for a few seconds.
10. While holding the throttle lock-on button in (Fig.10-No.7), pull throttle trigger (Fig.10-No.9) to rev the engine.
Note: When the engine is started the chain will rotate until the throttle lock-off button is released, then the engine will idle and the chain will stop rotating.

STARTING WARM ENGINE

Proceed as with cold engine start but with the choke knob pushed, i.e. in the run position.

STOPPING ENGINE

1. Release the throttle trigger to allow the engine to idle for a few minutes.
2. To stop the engine, flip the ON/OFF switch down to the (0) position.



CHECKING OIL SUPPLY

- After starting the engine, run the chain at medium speed and observe if chain oil is sprayed off (Fig.12).
- First switch off the engine, wait for the chain to stop and then remove the spark plug wire before adjusting the chain oil flow.
- The chain oil flow-rate can be changed by adjusting the screw in the hole on bottom of the clutch side (Fig.13). Adjust according to your work conditions.

NOTE

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

ADJUSTING CARBURETOR (REFER TO FIGURE 14)

- The carburetor on the chain saw has been factory adjusted, but may require fine turning due to change in operating conditions.
- Before adjusting the carburetor, make sure you have clean air/fuel filters and fresh, properly mixed fuel.
- Note: Be sure to adjust the carburetor with the bar chain attached
- When adjusting, take the following steps:
 1. Stop engine and screw in both H and L needles clockwise until they stop. Do not force them.
 2. Set the needles back the number of turns as shown below:
 3. H needle: $1\frac{3}{8}$ turns
 4. L needle: $1\frac{1}{4}$ turns
 5. Start engine and allow it to warm up at half-throttle.
 6. Turn L needle slowly clockwise to find a position where idling speed is maximum, then set the L needle back a quarter ($1/4$) turn counter clockwise.

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5. Start engine and allow it to warm up at half-throttle.
6. Turn L needle slowly clockwise to find a position where idling speed is maximum, then set the L needle back a quarter ($1/4$) turn counter clockwise.
7. Turn idle adjusting screw (T) counter clockwise until the saw chain does not turn. If idling speed is too slow, turn the screw clockwise.
8. Make a test cut and adjust the H needle for best cutting power, not for maximum speed.

INSTRUCTIONS ON THE CORRECT USE OF THE CHAIN SAW

REMOVING BRANCHES (Fig.15)

- Ensure that you are standing properly.
- Cut a deep notch from below into the branch about 15cm from the trunk.
- Now cut the branch from above about 5cm further outwards from the lower notch until the branch drops off.
- In order to remove the remaining stub, cut from below about $1/3$ into the remaining branch close to the trunk.
- Cut into the branch from above until the branch has been removed completely.
- WARNING:** Do not remove free-hanging branches from below.
- Always stand at the side of the tree during felling (not in front!)

- Decide the felling direction of the tree by considering the wind, lean of the tree, location of heavy branches, ease of job after felling and other factors.
The felling notch is cut on this side of the trunk.
- First cut $1/3$ of the trunk diameter horizontally into the tree at the intended felling notch (Fig.17 No.1).
- Now cut the second part of the felling notch from above at an angle of 45 degrees to the first cut (Fig.17 No.2).
- Now make the felling cut exactly opposite to the felling notch. The felling cut must run horizontal and at a level slightly higher than the bottom of the felling notch (Fig.17 No.3).
- Do not cut completely through the tree. Leave about $1/10$ of the trunk diameter.
- Put wedges into the felling cut to bring the tree to fall (Fig.17 No.4). Note the felling direction of the tree (Fig.17 No.5).
- WARNING:** When felling a tree, be sure to warn neighboring workers of the danger.

CUTTING A LOG LYING ON THE GROUND (Fig.18)

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

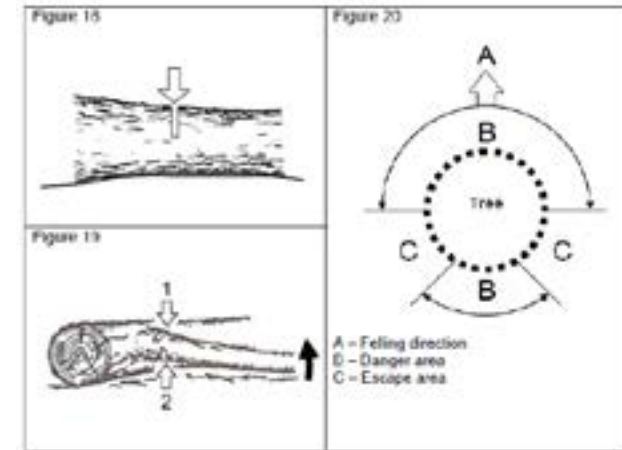
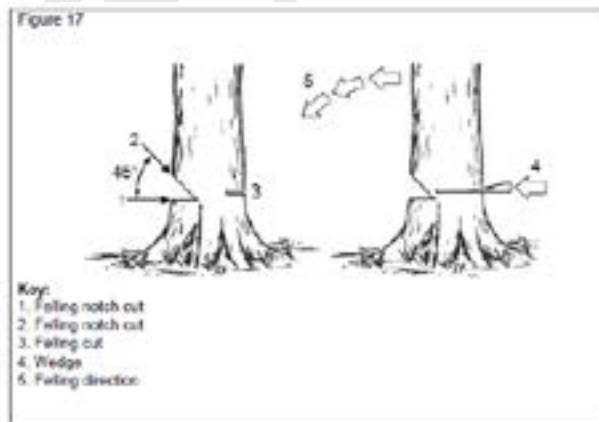
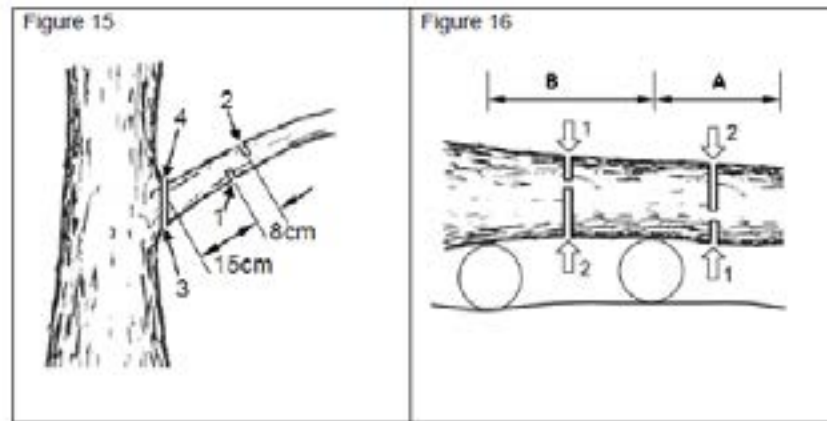
CUTTING A LOG HANGING OFF THE GROUND (Fig.16)

- If cutting in area A (see figure 16), saw up from the bottom one-third and finish by sawing down from the top. If cutting in area B, saw down from the top one-third and finish by sawing up from the bottom.
- This technique must be following to ensure the chain bar does not jam. If the chain saw does become jammed, switch it off immediately. Use wedges to free the bar.

CUTTING THE LIMB OF A FALLEN TREE (Fig.19)

□ Before starting work, check the direction of bending force inside the log to be cut. Then make the initial cut from the bent side (Fig.19 No.1) and finish by sawing from the opposite side (Fig.19 No.2). Always finish cutting from the opposite side of bending direction to prevent the guide bar from being caught in the cut.

□ **WARNING:** 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 fibres is released.



MAINTENANCE AND CLEANING

In order to maintain your chain saw in proper working order, perform the maintenance and checking operations described in this manual at regular intervals. Leave all maintenance other than the items listed in the Owner's Manual to your competent servicing dealer. Repairs and servicing must only be performed by authorized dealers and service agents.

Before cleaning, inspecting or repairing the chain saw, make sure that engine has stopped and is cool. Switch off and disconnect the spark plug to prevent accidental starting during maintenance and cleaning.

WARNING: The metal engine parts are at high temperatures immediately after stopping the engine.

MAINTENANCE AFTER EACH USE

Check all the chain saw parts for wear after every use, particularly the chain, bar and sprocket.

Air filter

Clean air filter regularly. Unscrew air filter knob (Fig.10 No.4) and remove air filter cover (Fig.10 No.5) and remove filter (Fig.21). Dust on the filter surface can be removed by tapping a corner of the filter against a hard surface. To clean dirt in the mesh, split the filter into halves and brush in gasoline. When using compressed air, blow from the inside. Remember to wear safety goggles.

To assemble the filter halves, press the rim until it clicks. Note, when installing the filter, make sure that the grooves on the filter edge are correctly aligned with **the intake hole on the cylinder.**

Fit new filter if damaged.

Oiling port

Disassemble the guide bar and check the oiling port for clogging (Fig. 4).

Guide bar

When the guide bar is disassembled, remove sawdust in the bar groove and the oiling port. Grease the nose sprocket from the feeding port on the tip of the bar (Fig. 9).

Chain

Remove the chain and clean it if it is dirty, e.g. gumming with resin. Place the chain in a vessel containing chain cleaner. There after clean the chain with clean water. If the chain is not used again immediately, it must be treated with oil or a custom anti-corrosion spray.

Ensure that the chain tension is correct. If the chain is too loose, it may come off during use and lead to injuries. The chain must be replaced immediately if it is damaged. The cutting teeth must be at least 4 mm long.

Oil level and lubrication

Check the oil level and lubrication after every use. Insufficient oil and lubrication leads to damage to the chain, bar and engine.

General

Check for fuel leakage, loose fasteners and damage to major parts, especially handle joints and guide bar mounts. If any damage is found, make sure to have it repaired before operating the chain saw again.

PERIODIC MAINTENANCE

Cylinder fins

NOTE: Block the air intake hole when cleaning cylinder fins. Dust clogging between the cylinder fins will cause overheating of the engine.

Periodically check and clean the cylinder fins after removing the air filter and the cylinder cover (Fig.22). When re-fastening the cylinder cover, make sure that switch wires and grommets are positioned correctly in place.

Fuel filter

Replace every 12 months.

(a) Using a wire hook, take out the filter from the fuel tank refilling inlet (Fig.10, No.12).

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

NOTE

After removing the filter and when assembling the filter, take care not to allow filter fibres or dirt inside the suction pipe.

Silencer

The silencer may become blocked by deposits over a period of time and must be removed to be cleaned or replaced.

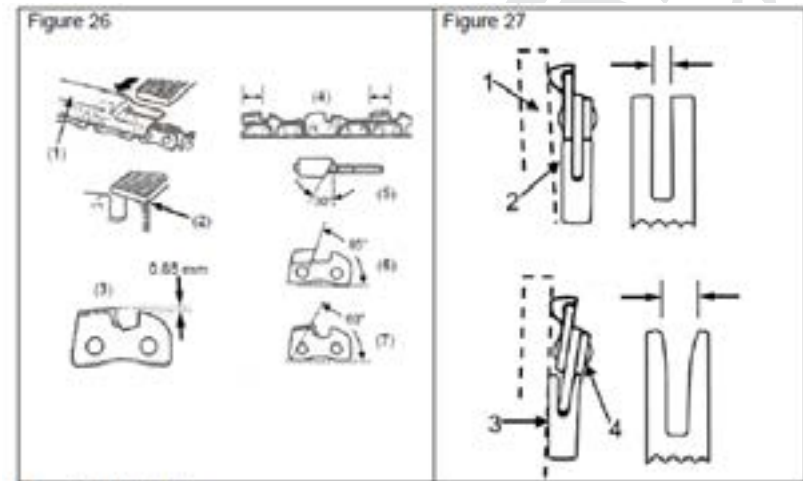
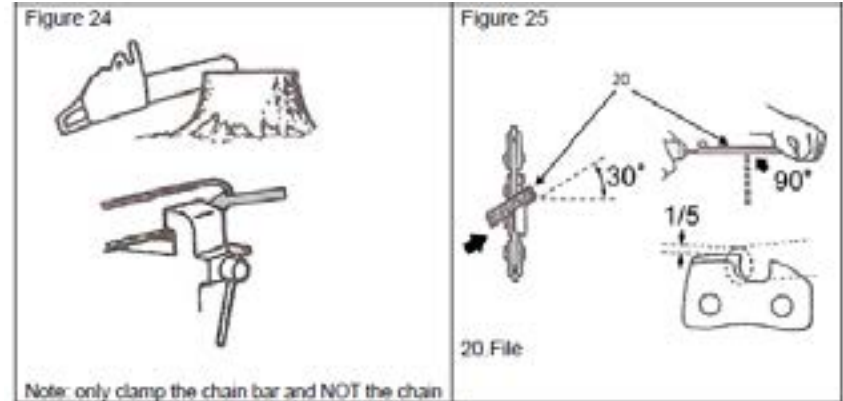
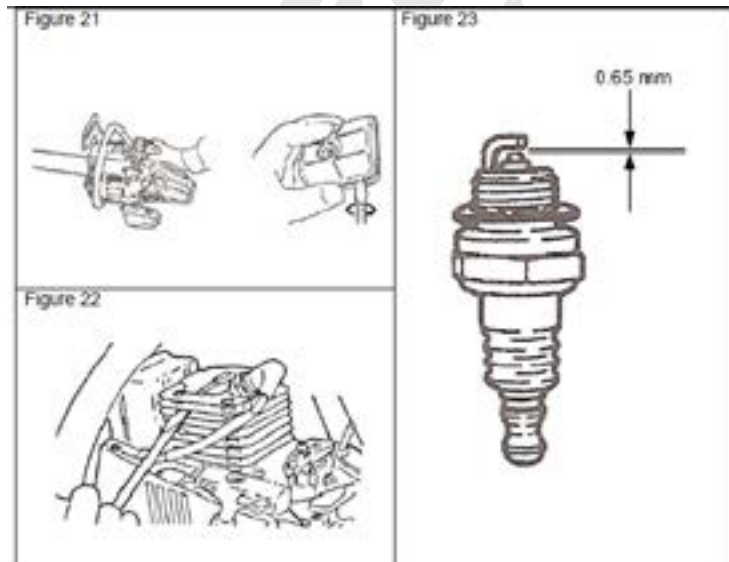
Chain oil tank

With a wire hook, take out the oil filter through the oil filler port (Fig.10 No.13) and clean in gasoline. When putting the filter back into the tank, make sure that it is positioned in the front right corner. Also clean out any dirt in the tank.

Spark plug

Check every 12 months or if starting problems are experienced. When the engine is cold, remove the plug cap and unscrew the spark plug with a suitable spark plug socket. Clean the electrodes with a wire brush and reset the gap to 0.65 mm when necessary (Fig.23). If the electrodes are excessively soiled or worn then replace with an equivalent new spark plug (e.g. BM6A). Excessive soiling may be due to a) too high ratio/poor quality 2-stroke oil or b) clogged air filter.

Replace spark plug and screw in by hand to avoid stripping of thread, then tighten with socket.



Sprocket (Fig. 5)

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

Front and Rear dampers

Replace rubber dampers if they are cracked or appear peeled.

Saw Chain:

WARNING

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

Your cutters need to be sharpened when

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

- Fuel consumption increases.

Cutter setting standards:

WARNING: Be sure to wear safety gloves.

Before filing:

- Make sure the saw chain is held securely (Fig.24).
- Make sure the engine is stopped.
- Use a round file of proper size for your chain.

Chain type: K2

File size: 3/16 in (4.76mm)

Place your file on the cutter and push straight forward. Keep the file position as illustrated (Fig.25)

After every cutter has been set, check the depth gauge and file it to the proper level as illustrated (Fig.26).

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

Make sure every cutter has the same length and edge angles as illustrated (Fig.26).

Referring to figure 26:

- (1) Appropriate gauge checker.
- (2) Make the shoulder round
- (3) Depth gauge standard
- (4) Cutter length
- (5) Filing angle
- (6) Side plate angle
- (7) Top plate cutting angle

Guide Bar

Reverse the bar occasionally to prevent partial wear.

The bar rail should always be a square. Check for wear of the bar rail. Apply a ruler to the bar and the outside of a cutter. If a gap is observed between them, the rail is normal. Otherwise, the bar rail is worn. A worn bar needs to be repaired or replaced (Fig.27).

Referring to figure 27:

1. Ruler
2. Gap
3. No gap
4. Chain tilts

GENERAL CLEANING

Always remove wood shavings and oil from the chain saw after use. Clean the chain saw by brushing away dirt and waste residue that may be caught the machine. Wipe the chainsaw clean with a damp cloth or hand brush

DO NOT use running water, solvents, strong detergents or a high pressure washer to clean. (Use a mild detergent and sponge to clean the plastic surfaces.)

Pay particular attention to the air intake area, keeping it free of debris

Switch the chain saw off immediately if the machine starts to shake or produce abnormal noise.

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

TRANSPORTATION AND STORAGE

- ❑ **WARNING:** Stop the engine and allow the chain saw to cool before storing or transporting in a vehicle.
- ❑ Always carry the unit with the engine stopped, the guide bar covered and muffler away from your body.
- ❑ Clean the unit before storing.
- ❑ Store the chain saw and fuel where fuel vapours cannot reach sparks or open flames.
- ❑ If chain saw is unused for more than 2 months or being transported, then empty the fuel tank. Before storage allow the engine to cool. Store the unit indoors in a dry, ventilated and locked place, out of reach of children.
- ❑ Store the chain saw with all guards in place.

Attention

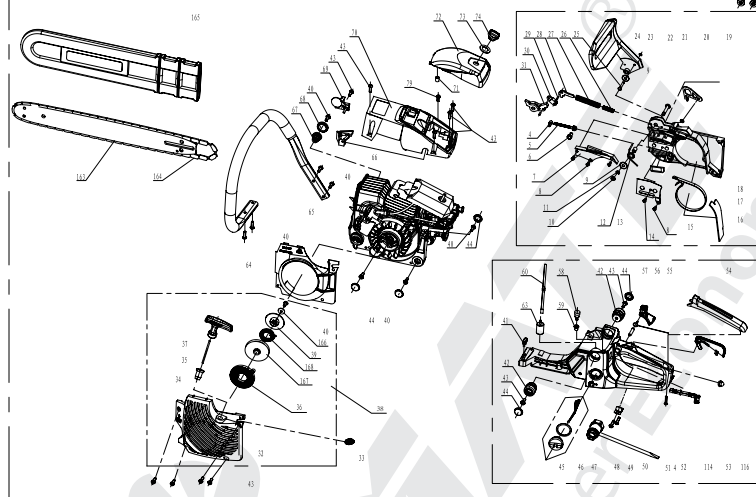
Any maintenance and repair work beyond that described in this instruction manual must only be performed by an authorized service agent..

	Fuel Related: 1. Choke not in start position, especially with cold engine. 2. Low quality or deteriorated, old gasoline. 3. Dirty fuel passageways blocking fuel flow. 4. Too much fuel in chamber. This can be caused by trying to start engine with choke on after priming.	Fuel Related: 1. Move choke to start position if engine is cold. 2. Use only fresh 90+ octane unleaded gasoline in proper mixture with 2-stroke engine oil. 3. Have service by a qualified technician. 4. Open choke. Remove spark plug and pull the start handle several times to air out the chamber. Reinstall spark plug and set choke to start position.
Engine will not start	IGNITION (SPARK) RELATED: 1. No fuel in tank. 2. Spark plug wire disconnected or not connected securely. 3. Spark plug electrode wet or dirty. 4. Incorrect spark plug gap. 5. Spark plug wire or spark plug broken. correct spark timing or faulty 6. Ignition system.	IGNITION (SPARK)(RELATED): 1. Fill fuel tank. 2. Connect spark plug wire properly. 3. Clean spark plug. 4. Correct spark plug gap. 5. Replace spark plug wire and/or spark plug. 6. Have qualified technician diagnose/repair ignition system.
	COMPESSION RELATED: Loose spark plug.	COMPRESSION RELATED: Tighten spark plug. If that does not work, replace spark plug.
Engine misfires	1. Spark plug wire loose. 2. Correct spark plug gap or damaged spark plug. 3. Effective spark plug wire. 4. Old or low quality gasoline.	1. Check wire connections. 2. Re-gap or replace spark plug. 3. Replace spark plug wire. 4. Use only fresh 90+ octane unleaded gasoline, 25:1 mixture with 2-stroke engine oil.
Engine stops suddenly	1. Fuel tank empty or full of impure or low quality gasoline. 2. Defective fuel tank cap creating vacuum, preventing proper fuel flow. 3. Improper idle speed. 4. Faulty ignition coil or clogged carburetor. 5. Clogged fuel filter.	1. Fill fuel tank with fresh 90+ octane unleaded gasoline in 25:1 mixture with 2-stroke engine oil. 2. Test/replace fuel tank cap. 3. Properly adjust idle speed. 4. Have qualified technician diagnose and service engine. Replace fuel filter.
Saw Chain not rotating up to full speed.	1. Saw Chain too tight or too loose. 2. Air filter needs cleaning or changing.	1. Adjust Saw Chain. 2. Check air filter and clean or replace.
Poor quality of cut.	1. Sharpen Saw Chain cutters need sharpening. 2. Saw Chain work or damaged. 3. Saw Chain depth guides improperly set.	1. Sharpen Saw Chain cutters. 2. Replace worn or damaged Saw Chain. 3. File down according to manufacturer's recommendations.

Follow all safety precautions whenever diagnosing or servicing the equipment or engine

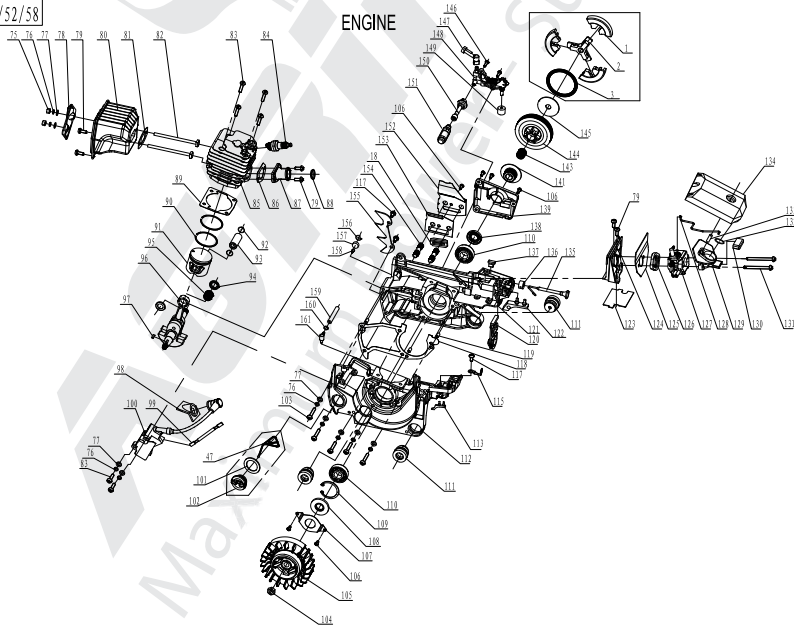
CSB45/52/58

CHAIN SAW



CSB45/52/58

ENGINE



SL NO.	PART NOD	DESCRIPTION
1	AM-CS-5918/22-01	shoe block
2	AM-CS-5918/22-02	retainer
3	AM-CS-5918/22-03	clutch extension spring
4	AM-CS-5918/22-04	tightener
5	AM-CS-5918/22-05	tightener screw
6	AM-CS-5918/22-06	tightener gear wheel
7	AM-CS-5918/22-07	brake spring cover
8	AM-CS-5918/22-08	screw
9	AM-CS-5918/22-09	washer
10	AM-CS-5918/22-10	shock absorption rubber washer
11	AM-CS-5918/22-11	clip
12	AM-CS-5918/22-12	brake guard torsion rod spring
13	AM-CS-5918/22-13	front guard tube
14	AM-CS-5918/22-14	screw
15	AM-CS-5918/22-15	guide bar outer plate
16	AM-CS-5918/22-16	dust shield
17	AM-CS-5918/22-17	brake spring belt
18	AM-CS-5918/22-18	chain guide block
19	AM-CS-5918/22-19	guide bar cover
20	AM-CS-5918/22-20	limit board
21	AM-CS-5918/22-21	clip
22	AM-CS-5918/22-22	affle pin
23	AM-CS-5918/22-23	clip
24	AM-CS-5918/22-24	brake guard
25	AM-CS-5918/22-25	limit pin
26	AM-CS-5918/22-26	assistant brake spring
27	AM-CS-5918/22-27	brake spring
28	AM-CS-5918/22-28	brake control rod
29	AM-CS-5918/22-29	pin
30	AM-CS-5918/22-30	assistant lever

31	AM-CS-5918/22-31	main lever
32	AM-CS-5918/22-32	starter cover
33	AM-CS-5918/22-33	L H jacket
34	AM-CS-5918/22-34	rope guide cover
35	AM-CS-5918/22-35	starter rope
36	AM-CS-5918/22-36	starter coil spring
37	AM-CS-5918/22-37	starter handle
38	AM-CS-5918/22-38	
39	AM-CS-5918/22-39	Starter wheel A
40	AM-CS-5918/22-40	screw
41	AM-CS-5918/22-41	oil tank shock absorption rubber
42	AM-CS-5918/22-42	long anti-vibration cushion base
43	AM-CS-5918/22-43	screw
44	AM-CS-5918/22-44	oil tank shock absorption rubber
45	AM-CS-5918/22-45	long anti-vibration cushion base
46	AM-CS-5918/22-46	screw
47	AM-CS-5918/22-47	shock absorption dust shield
48	AM-CS-5918/22-48	fuel tank cap
49	AM-CS-5918/22-49	fuel cap retainer
50	AM-CS-5918/22-50	fuel tank cap washer
51	AM-CS-5918/22-51	socket spanner
52	AM-CS-5918/22-52	screw
53	AM-CS-5918/22-53	socket spanner clamping piece
54	AM-CS-5918/22-54	fuel tank
55	AM-CS-5918/22-55	screw
56	AM-CS-5918/22-56	throttle trigger A
57	AM-CS-5918/22-57	handle cover
58	AM-CS-5918/22-58	throttle trigger B
59	AM-CS-5918/22-59	reset spring
60	AM-CS-5918/22-60	pin

61	AM-CS-5918/22-61	balancer
62	AM-CS-5918/22-62	balancer block
63	AM-CS-5918/22-63	fuel pipe
64	AM-CS-5918/22-64	cover fan
65	AM-CS-5918/22-65	front handle
66	AM-CS-5918/22-66	Idle adjustment guide sleeve
67	AM-CS-5918/22-67	taper spring
68	AM-CS-5918/22-68	taper spring block
69	AM-CS-5918/22-69	chain safeguard
70	AM-CS-5918/22-70	cylinder cover
71	AM-CS-5918/22-71	shock absorption rubber washer
72	AM-CS-5918/22-72	air filter cover
73	AM-CS-5918/22-73	nut washer
74	AM-CS-5918/22-74	air filter nut
75	AM-CS-5918/22-75	nut
76	AM-CS-5918/22-76	washer
77	AM-CS-5918/22-77	spring washer
78	AM-CS-5918/22-78	muffle cover
79	AM-CS-5918/22-79	screw
80	AM-CS-5918/22-80	muffle assy
81	AM-CS-5918/22-81	muffle seal washer
82	AM-CS-5918/22-82	muffle bolt
83	AM-CS-5918/22-83	screw
84	AM-CS-5918/22-84	spark plug
85	AM-CS-5918/22-85	cylinder
86	AM-CS-5918/22-86	in pipe seal washer
87	AM-CS-5918/22-87	in pipe
88	AM-CS-5918/22-88	retainer
89	AM-CS-5918/22-89	cylinder seal washer
90	AM-CS-5918/22-90	piston ring

91	AM-CS-5918/22-91	piston
92	AM-CS-5918/22-92	piston pin circlip
93	AM-CS-5918/22-93	piston pin
94	AM-CS-5918/22-94	needle bearing clip
95	AM-CS-5918/22-95	needle bearing
96	AM-CS-5918/22-96	crankshaft connecting rod ass'y
97	AM-CS-5918/22-97	semicircular key
98	AM-CS-5918/22-98	Ignition coil protective cover
99	AM-CS-5918/22-99	flameout wire
100	AM-CS-5918/22-100	ignition coil
101	AM-CS-5918/22-101	oil cap washer
102	AM-CS-5918/22-102	oil cap
103	AM-CS-5918/22-103	screw
104	AM-CS-5918/22-104	nut
105	AM-CS-5918/22-105	fly wheel
106	AM-CS-5918/22-106	screw
107	AM-CS-5918/22-107	oil seal plate
108	AM-CS-5918/22-108	oil seal
109	AM-CS-5918/22-109	circlip
110	AM-CS-5918/22-110	bearing
111	AM-CS-5918/22-111	short shock absorption block
112	AM-CS-5918/22-112	left crankshaft case
113	AM-CS-5918/22-113	left shock absorption rubber
114	AM-CS-5918/22-114	switch
115	AM-CS-5918/22-115	
116	AM-CS-5918/22-116	primer bulb
117	AM-CS-5918/22-117	screw
118	AM-CS-5918/22-118	crankshaft case gasket
119	AM-CS-5918/22-119	pin
120	AM-CS-5918/22-120	dust plate

121	AM-CS-5918/22-121	right crankshaft case
122	AM-CS-5918/22-122	right shock absorption rubber
123	AM-CS-5918/22-123	air intake washer
124	AM-CS-5918/22-124	air intake tube support
125	AM-CS-5918/22-125	air intake tube support gasket
126	AM-CS-5918/22-126	air intake flange
127	AM-CS-5918/22-127	Walbro carburetor
128	AM-CS-5918/22-128	accelerator rod
129	AM-CS-5918/22-129	air intake
130	AM-CS-5918/22-130	air intake cushion
131	AM-CS-5918/22-131	screw
132	AM-CS-5918/22-132	gaskte,air filter
133	AM-CS-5918/22-133	screw
134	AM-CS-5918/22-134	air filter
135	AM-CS-5918/22-135	choke rod
136	AM-CS-5918/22-136	choke rod seat
137	AM-CS-5918/22-137	shock absorption block
138	AM-CS-5918/22-138	oil seal
139	AM-CS-5918/22-139	oil pump cover plate
140	AM-CS-5918/22-140	
141	AM-CS-5918/22-141	worm
142	AM-CS-5918/22-142	NA
143	AM-CS-5918/22-143	Needle bearing
144	AM-CS-5918/22-144	clutch shell
145	AM-CS-5918/22-145	clutch washer
146	AM-CS-5918/22-146	screw
147	AM-CS-5918/22-147	oil outlet nozzle
148	AM-CS-5918/22-148	oil pump
149	AM-CS-5918/22-149	sponge filter
150	AM-CS-5918/22-150	oil tube

Warranty Card

CUSTOMER COPY



Purchaser's Name & Address

Date of Delivery

Product Name

Gasoline Chainsaw AM-CS-5918WC

Dealer's Office Seal

Product Serial No.

Dealer Sign

Customer Sign.

Invoice / DN No.

I/We accept the terms and conditions of Warranty as in the Warranty Card.

Warranty Card

DEALER'S COPY



Purchaser's Name & Address

Date of Delivery

Product Name

Gasoline Chainsaw AM-CS-5918HC

Dealer's Office Seal

Product Serial No.

Dealer Sign

Customer Sign.

Invoice / DN No.

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Warranty Card

COMPANY COPY



Purchaser's Name & Address

Date of Delivery

Product Name

Gasoline Chainsaw AM-CS-5922HC

Dealer's Office Seal

Product Serial No.

Dealer Sign

Customer Sign.

Invoice / DN No.

I/We accept the terms and conditions of Warranty as in the Warranty Card.

1. LIMITED WARRANTY PERIOD : For a period of six months from the date of Sale / delivery of the product which ever is earlier. 2. LIMITED WARRANTY OBLIGATION : Replacement of defective part(s) by authorized dealer are free of charges. If found defective by reasons of defective material / poor workmanship, parts will be replaced and there will be no value re-imbursment. 3. TERMS & CONDITIONS : a. Claims under warranty will be accepted on submission of Warranty Card duly filled and stamped by authorized dealer together with the original purchase document. : b. Shipping / transportation / Incidental charges incurred in replacing defective parts under warranty shall be borne by the purchaser. WARRANTY null & void if
- (i) Lack of maintenance, (ii) Incorrect use of the machine or tampering, (iii) Use of non-genuine spare parts, (iv) Usage of acids/solvents, or any flammable materials, (v) Non-usage of filter water / clear water / soft water & using water above 40°C temperature, (vi) While using the pressure washers to draw water which is contaminated with dust & solvents (eg. paint thinners, gasoline, oil, etc.), (vii) Repair done by unauthorized service people, (viii) Those parts subject to wear & tear due to normal operations and plastic parts, rubber items etc, (ix) Loose connections, faulty electrical fixtures & fluctuations in power supply.
4. Should any failure occur during or after the warranty period, customer does not have the right to interrupt payment / price discount.
5. Incidental or consequential damages like inconvenience commercial loss, loss of tie, mental agony etc.
6. Loss of any nature due to operation or non-operation is not covered under warranty.
7. All free service are at Dealer's service point only.
8. Warranty ceases if service is not done periodically.
9. The attached card should be completed and returned to Ratnagiri Impex Pvt. Ltd. for registration immediately after sale / delivery.
10. The warranty is void unless you register the warranty card with Ratnagiri Impex Pvt. Ltd.
11. The decision of Ratnagiri Impex Pvt. Ltd., in settling the warranty is final in all respects.
12. All disputes are subject to Bangalore Courts Jurisdiction

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1st Free Service Coupon

ISO 9001-2008
CERTIFIED COMPANY

FREE SERVICE COUPON (30 Days / 20 hrs (Which ever is earlier))

Model
Gasoline Chainsaw AM-CS-5918WC

Serial Number

PDI Date

Purchase bill no. Date

Service No.

- Operations:
- Check and Test the Fuel Mixture.
 - Check and Clean the Air Filter
 - Check, Clean and Adjust the Spark plug
 - Check and Adjust the Carburetor Tuning
 - Check and Sharpen the cutting Tools
 - Start and Check the Noise, Vibration, Loosen / Fasteners etc.
 - Product familiarization on Usage
 - Routine maintenance and Storage

Dealer's Office Seal

Dealer Signature.....

Customer Signature.....

Conditions: Operations listed have been performed to my entire satisfaction without any labour charges. Only consumables were charged.



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WARRANTY AND FREE SERVICE COUPON



2nd Free Service Coupon

ISO 9001-2008
CERTIFIED COMPANY

FREE SERVICE COUPON (30 Days / 20 hrs (Which ever is earlier))

Model
Gasoline Chainsaw AM-CS-5918HC

Serial Number

PDI Date

Purchase bill no. Date

Service No.

- Operations:
- Check and Test the Fuel Mixture.
 - Check and Clean the Air Filter
 - Check, Clean and Adjust the Spark plug
 - Check and Adjust the Carburetor Tuning
 - Check and Sharpen the cutting Tools
 - Start and Check the Noise, Vibration, Loosen / Fasteners etc.
 - Product familiarization on Usage
 - Routine maintenance and Storage

Dealer's Office Seal

Dealer Signature.....

Customer Signature.....

Conditions: Operations listed have been performed to my entire satisfaction without any labour charges. Only consumables were charged.



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WARRANTY AND FREE SERVICE COUPON



3rd Free Service Coupon

ISO 9001-2008
CERTIFIED COMPANY

FREE SERVICE COUPON (30 Days / 20 hrs (Which ever is earlier))

Model
Gasoline Chainsaw AM-CS-5922HC

Serial Number

PDI Date

Purchase bill no. Date

Service No.

- Operations:
- Check and Test the Fuel Mixture.
 - Check and Clean the Air Filter
 - Check, Clean and Adjust the Spark plug
 - Check and Adjust the Carburetor Tuning
 - Check and Sharpen the cutting Tools
 - Start and Check the Noise, Vibration, Loosen / Fasteners etc.
 - Product familiarization on Usage
 - Routine maintenance and Storage

Dealer's Office Seal

Dealer Signature.....

Customer Signature.....

Conditions: Operations listed have been performed to my entire satisfaction without any labour charges. Only consumables were charged.



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WARRANTY AND FREE SERVICE COUPON



Small Maintenance. Big Savings.



Small Maintenance. Big Savings.



Small Maintenance. Big Savings.

Do's & Don'ts

- Always read the instruction manual supplied along with the equipments and understand the correct installation and operating procedures before attempting to use the equipments.
- It is important to use the personal protection equipments such as head helmet with visor, ear defenders, goggles, safety gloves, cut resistant shoes, trousers and jackets while operating potentially dangerous machines.
- Avoid untrained persons using the equipments. Children must not be allowed to handle these equipments.
- Always use genuine spares and accessories in repairs and usage to derive maximum life of the equipments.
- Always keep the equipments in good working condition to minimise loss of output as well as to reduce the pollution and save the environment.
- Do not use the machine within range of persons unless they wear protective clothing.
- Do not operate the machine when fatigued or under the influence of alcohol or drugs.
- When the machine is running, please maintain a constant water supply. Without water circulation will damage the sealing rings of the machine.
- For more query kindly contact for our Service Center/Dealer/ franchise

Agrimate Army For Pest Control

ANY WHERE - ANY TIME - ANY CROP



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Maximum Power - Super Economy

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