

4 - FUEL AND LUBRICATION

4-1. FUEL

Use regular grade unleaded gasoline mixed with Genuine McCulloch 40:1 2-cycle engine oil for best results. See mixing ratio in Section 4-2.

Never use straight gasoline in your unit. This will cause permanent engine damage and void the manufacturer's warranty for that product. Never use a fuel mixture that has been stored for over 90 days.

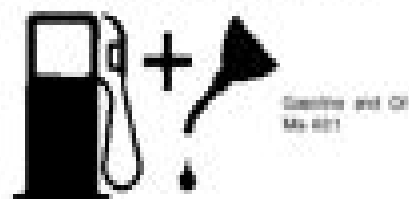
2-Stroke lubricant other than Genuine McCulloch lubricant is to be used. It must be a premium grade oil for 2-cycle air cooled engines mixed at a 40:1 ratio. Do not use any 2-cycle oil product with a recommended mixing ratio of 100:1. If insufficient lubrication is the cause of engine damage, it voids the manufacturer's engine warranty for that country.

4-2. MIXING FUEL

Mix fuel with Genuine McCulloch brand 2 cycle oil in an approved container. Use mixing table for correct ratio of fuel to oil. Shake container to ensure thorough mix.

Lack of lubrication voids engine warranty.

4-3. FUEL AND LUBRICATION SYMBOLS



FUEL MIXING TABLE

GASOLINE	McCulloch 40:1 Ratio Lubricant	
1 U.S. Gal.	3.2 oz.	90ml (oz)
5 Liters	4.3 oz.	125ml (oz)
1 Imp. Gal.	4.3 oz.	125ml (oz)
Mixing Procedure	40 Parts Gasoline to 1 Part Lubricant	
	100:1 (oz)	

4-4. RECOMMENDED FUEL

Some conventional gasolines are being blended with oxygenates such as alcohol or an ether compound to meet clean air standards. Your McCulloch engine is designed to operate on any gasoline intended for automotive use including oxygenated gasolines.

4-5. CHAIN AND BAR LUBRICATION

Always add the chain oil before each time the fuel tank is refilled. We recommend using Genuine McCulloch Chain, Bar and Sprocket Oil, which contains additives to reduce friction and wear and to assist in the prevention of pitch formation on the bar and chain.

5 - OPERATING INSTRUCTIONS

5-1. ENGINE PRE-START CHECKS

WARNING

Never start or operate the saw unless the bar and chain are properly installed.

- Fit the fuel tank (A) with correct fuel mixture (Figure 5-1A).
- Fit the oil tank (B) with correct chain and bar oil (Figure 5-1A).
- Be certain the CHAIN BRAKE[®] is disengaged (C) before starting unit (Figure 5-1A).

NOTE: See page 6 Fig. 5-1A & 5-1B.



5-2. TO START ENGINE

- Press the STOP switch to the "ON" position (Fig. 5-2A).
- Pull out the choke (A) to the point where it locks in place (Fig. 5-2B).
- Push the primer bulb (B) 10 times (Fig. 5-2C).
- Lock throttle advance/decompress latch and pull (C) squeeze throttle trigger (C) release trigger and turn the switch (Fig. 5-2D).
- Place the saw on a firm and level surface. Hold the saw securely with your feet as illustrated. Pull sharply on the starter 4 times. Watch the chain to make it turn (Fig. 5-2E).

NOTE: Easy Start[®] primer assist starting significantly reduces the pulling effort. Pull the starter cord slowly to about 2-3 feet, the primer assist will turn over the engine with little resistance from the engine.

- Push in the choke (E) so bar oil will go (Fig. 5-2F).
- Hold the saw securely and tug sharply on the starter 4 times. The engine should start.
- Let the engine run for 10 seconds to warm up. Press the trigger (F) and put it into idle (Fig. 5-2G).
- If the engine does not start up, repeat the above steps.

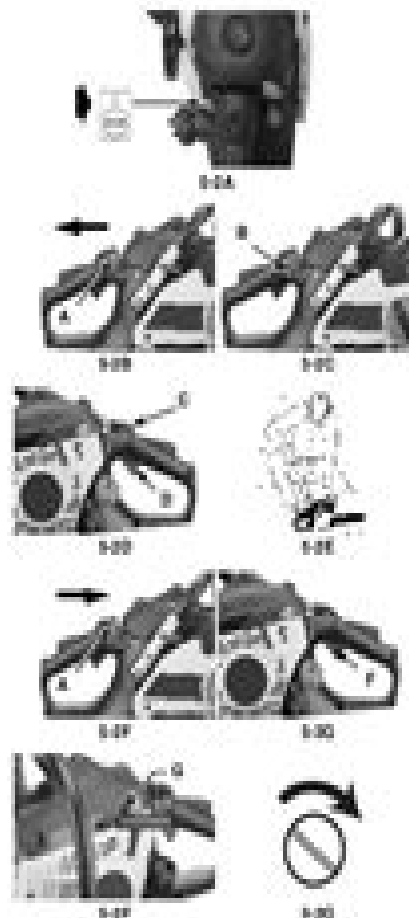
IMPORTANT OILING INFORMATION

In some cases due to operating conditions (altitude, temperature etc.) your chain saw may need a slight adjustment to the oil speed.

After warm up - See the User's Manual section 5-3, step 7 - 1 unit time, not idle after working 7 times, follow these steps to adjust oil.

- Oil adjustment access (G), (Figure 5-2H).
- Using a Phillips or similar screwdriver - turn screw 1/4 to 1/2 turn clockwise to the right. Oil should then flow properly (Figure 5-2H).

NOTE: If chain runs while idling - turn screw back to the left until chain stops and unit continues to idle.



Mac 3200 Chainsaw Manual

Marco Cascella



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web the atomic mass of a single atom is simply its total mass and is typically expressed in atomic mass units or amu by definition an atom of carbon with six neutrons carbon 12 has an atomic mass of 12 amu other atoms don t generally have round number atomic masses for reasons that are a little beyond the scope of this article

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web jul 29 2021 as you learned the mass number is the sum of the numbers of protons and neutrons present in the nucleus of an atom the mass number is an integer that is approximately equal to the numerical value of the atomic mass although the mass number is unitless it is assigned units called atomic mass units amu because a molecule or a

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web atomic structure google classroom what three particles make up an atom choose 1 answer protons neutrons and photons a protons neutrons and photons positrons neutrons and electrons b positrons neutrons and electrons protons electrons and positrons c protons electrons and positrons protons neutrons and electrons d