

## FUEL AND LUBRICATION

### FUEL

Use only regular grade leaded gasoline. Do not use highly leaded, unleaded or low lead gasolines. Chain saw fuel is a mixture of gasoline and lubricating oil. The correct ratio of gasoline to oil is very important. Follow the ratios in the Fuel Mixture Table. McCulloch 40:1 Two-Cycle Custom Lubricant is recommended. If not available, use a good grade SAE 40 two-cycle oil at a ratio of 20 to 1.

### MIXING FUEL

Mix fuel in a container equipped with a flexible spout and strainer. Pour half of the gasoline and all of the oil into the container. Shake the container vigorously! Add the rest of the gasoline and shake container vigorously again. Thoroughly mixed fuel makes your saw run better. Use the sight gauge through the fan housing for determining your fuel supply.

**CAUTION:** Fuel additives or special starting fluids should not be used because seals and other rubber composition parts may be damaged.

FUEL MIXTURE TABLE

| Gasoline            | McCulloch 40:1 Ratio<br>Custom Lubricant | SAE 40 Two-Cycle Oil<br>20:1 Ratio       |
|---------------------|--|--|
| 1/2 U.S. Gal.       | 1-1/2 oz. 50ml [cc]                      | 3 oz. 100ml [cc]                         |
| 1 U.S. Gal.         | 3 oz. 100 ml [cc]                        | 6 oz. 200ml [cc]                         |
| 5 U.S. Gal.         | 15 oz. 450 ml [cc]                       | 1 qt. 950ml [cc]                         |
| 1 Liter             | 7/8 oz. 25ml [cc]                        | 2 oz. 50ml [cc]                          |
| 5 Liter             | 4-1/2 oz. 130ml [cc]                     | 9 oz. 250ml [cc]                         |
| 20 Liter            | 17 oz. 480ml [cc]                        | 34 oz. 970ml [cc]                        |
| 1 Imp. Gal.         | 4 oz. 115ml [cc]                         | 8 oz. 230ml [cc]                         |
| 2 Imp. Gal.         | 8 oz. 230ml [cc]                         | 16 oz. 460ml [cc]                        |
| 5 Imp. Gal.         | 20 oz. 575ml [cc]                        | 40 oz. 1150ml [cc]                       |
| Mixing<br>Procedure | 40 parts gasoline to<br>1 part lubricant | 20 parts gasoline to<br>1 part lubricant |

1 ml = 1cc

### CHAIN AND BAR LUBRICATION

Always refill the chain oil tank each time the fuel tank is refilled. We recommend using 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. If McCulloch Chain, Bar and Sprocket Oil is not available, use SAE 30 non-additive motor oil at temperatures above 40°F (5°C) and SAE 10 non-additive motor oil at lower temperatures.

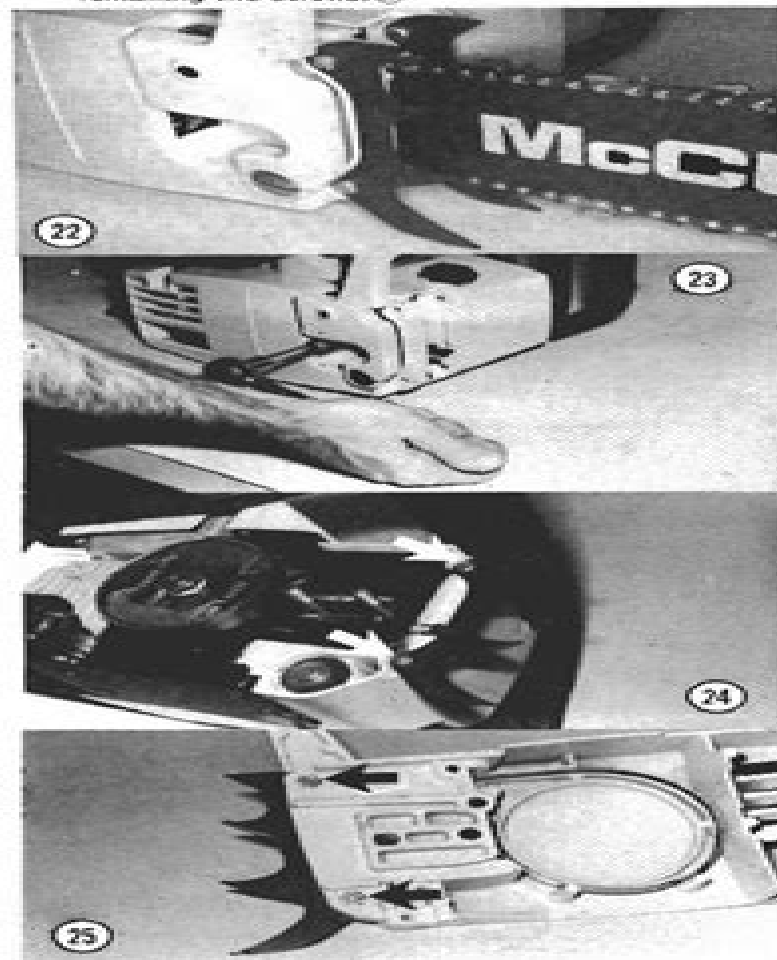
## INSTALLATION INSTRUCTIONS

### SPIKE INSTALLATION (PM 650)

Two spikes are included in the owners kit for the PM 650. The spikes, acting as wood grippers and fulcrum points, aid in cutting control. Ⓢ

### To install spikes:

1. Remove the CHAIN BRAKE retaining nuts. Then remove the CHAIN BRAKE. Ⓢ
2. With the largest tooth at the bottom, fasten one spike to the oil tank with two of the screws provided. Ⓢ
3. Insert the two nuts into their holes in the CHAIN BRAKE housing with the locking tabs on the outside. Ⓢ
4. Again, with the largest tooth at the bottom, fasten the other spike onto the CHAIN BRAKE housing using the remaining two screws. Ⓢ



# Mcculloch 610 650 Chain Saw Owners Manual

**M Carnoy**



## **Mcculloch 610 650 Chain Saw Owners Manual:**

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