

3-2 MAINTENANCE

ENGINE MAINTENANCE

Serial Number Identification

• See Figures 1 and 2

The engine serial numbers are the manufacturer's key to engine changes. These numbers identify the year of manufacture, the horsepower rating, and the parts/book identification. If any correspondence in parts are required, the engine serial number must be used for proper identification is not possible.

The serial number identifies the year in which the engine was produced and not necessarily the year of first installation. Two serial numbers are used on each of the outboard units covered in this manual. The most accessible location is on the transom/strake plate on the stern bracket. The other location is on the engine block.

For more information, refer to the "General Engine Specifications" chart at the end of this section.

2-Stroke Oil

OIL RECOMMENDATIONS

• See Figures 3 and 4

Use only Quakerstate TwoStroke Plus TC-100 two-cycle oil or 100W20 Quakerstate Marine Manufacturers Association Certified 2-Stroke Lubricants. These oils are proprietary lubricants designed to ensure optimal engine performance and to minimize combustion chamber deposits, avoid sludge, and prolong spark plug life. 2-Stroke oil lubricant is available, not only 2-Stroke Two-Stroke oil, but also some marine motor oil.

Remember: If in this oil, mixed with the gasoline, that lubricates the internal parts of the engine. Lack of lubrication due to the wrong mix or improper type of oil can cause catastrophic powerhead failure.

FUELING

There are two methods of adding 2-Stroke oil to an outboard. The first is the simple method used on most low horsepower and on some commercial outboards. The second is the automatic or Proportional method which automatically injects the correct quantity of oil into the engine based on throttle position and operating conditions.

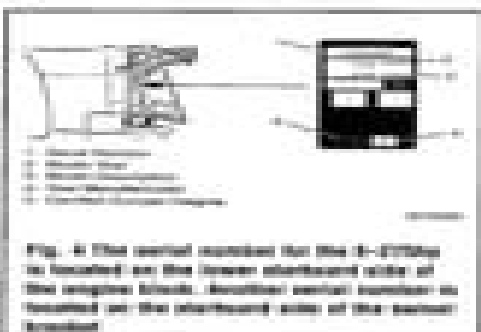
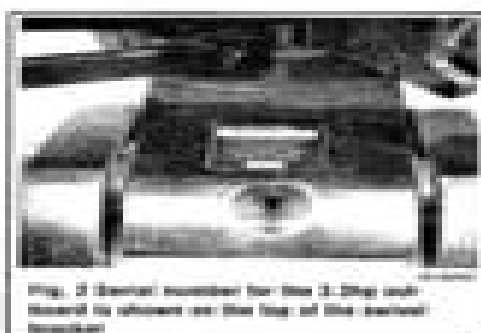
Fig. 5(a)

Mixing the engine lubricant with gasoline before pouring it into the tank is by far the simplest method of lubrication for 2-Stroke outboards. However, this method is the most messy and causes the most amount of harm to the environment.

The most important part of doing a pre-mix system is to determine the proper fuel/oil ratio. Most manufacturers use a 50:1 ratio that is 50 parts of fuel to 1 part of oil or a 100:1 ratio. Consult your owners manual to determine what the appropriate ratio should be for your engine.

The procedure itself is uncomplicated. Simply add the correct amount of lubricant to your fuel tank and then fill the tank with gasoline. The order in which you do this is important because as the gasoline is poured into the fuel tank it will mix with and replace the oil for a complete blending.

If you are attempting to do oil your tank, here is a general guideline to determine how much oil to add. For three gallons of fuel you would add 6 ounces of oil to obtain a 50:1 ratio. 4 ounces of oil to obtain a 60:1 ratio and 10 ounces of oil to obtain a 20:1 ratio.



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