

## 2-2 MAINTENANCE & TUNE-UP

### GENERAL INFORMATION (WHAT EVERYONE SHOULD KNOW ABOUT MAINTENANCE)

At Seloc, we estimate that 75% of engine repair work can be directly or indirectly attributed to lack of proper care for the engine. This is especially true of care during the off-season period. There is no way on this green earth for a mechanical engine, particularly an outboard motor, to be left sitting idle for an extended period of time, say for six months, and then be ready for instant satisfactory service.

Imagine, if you will, leaving your car or truck for six months, and then expecting to turn the key, having it roar to life, and being able to drive off in the same manner as a daily occurrence.

Therefore it is critical for an outboard engine to either be run (at least once a month), preferably, in the water and properly maintained between uses or for it to be specifically prepared for storage and serviced again immediately before the start of the season.

Only through a regular maintenance program can the owner expect to receive long life and satisfactory performance at minimum cost.

Many times, if an outboard is not performing properly, the owner will "nurse" it through the season with good intentions of working on the unit once it is no longer being used. As with many New Year's resolutions, the good intentions are not completed and the outboard may lie for many months before the work is begun or the unit is taken to the marine shop for repair.

Imagine, if you will, the cause of the problem being a blown head gasket. And let us assume water has found its way into a cylinder. This water, allowed to remain over a long period of time, will do considerably more damage than it would have if the unit had been disassembled and the repair work performed immediately. Therefore, if an outboard is not functioning properly, do not slow it away with promises to get at it when you get time, because the work and expense will only get worse the longer corrective action is postponed. In the example of the blown head gasket, a relatively simple and inexpensive repair job could very well develop into major overhaul and rebuild work.

#### Maintenance Equals Safety

OK, perhaps no one thing that we do as boaters will protect us from risks involved with enjoying the wind and the water on a powerboat. But, each time we perform maintenance on our boat or motor, we increase the likelihood that we will find a potential hazard before it becomes a problem. Each time we inspect our boat and motor, we decrease the possibility that it could leave us stranded on the water.

In this way, performing boat and engine service is one of the most important ways that we, as boaters, can help protect ourselves, our boats, and the friends and family that we bring aboard.

#### Outboards On Sail Boats

Owners of sailboats pride themselves in their ability to use the wind to clear a harbor or for movement from Port A to Port B, or maybe just for a day sail on a lake. For some, the outboard is carried only as a last resort - in case the wind fails completely, or in an emergency situation or for ease of docking.

Therefore, in some cases, the outboard is stored below, usually in a very poorly ventilated area, and subjected to moisture and stale air - in short, an excellent environment for "sweating" and corrosion.

If the owner could just take the time at least once every month, to pull out the outboard, clean it up, and give it a short run, not only would he/she have "peace of mind" knowing it will start in an emergency, but also maintenance costs will be drastically reduced.

#### Maintenance Coverage In This Manual

At Seloc, we strongly feel that every boat owner should pay close attention to this section. We also know that it is one of the most frequently used portions of our manuals. The material in this section is divided into sections to help simplify the process of maintenance. Be sure to read and thoroughly understand the various tasks that are necessary to keep your outboard in top-top shape.

Topics covered in this section include:

- General Information (What Everyone Should Know About Maintenance)
- an introduction to the benefits and need for proper maintenance. A guide to tasks that should be performed before and after each use.

- Lubrication Service - after the basic inspections that you should perform each time the motor is used, the most frequent form of periodic maintenance you will conduct will be the Lubrication Service. This section takes you through each of the various steps you must take to keep corrosion from slowly destroying your motor before your very eyes.

- Engine Maintenance - the various procedures that must be performed on a regular basis in order to keep the motor and all of its various systems operating properly.

- Boat Maintenance - the various procedures that must be performed on a regular basis in order to keep the boat hull and its accessories looking and working like new.

- Tune-Up - also known as the pre-season tune-up, but don't let the name fool you. A complete tune-up is the best way to determine the condition of your outboard while also preparing it for hours and hours of hopefully trouble-free enjoyment. And if you use your boat enough during a single season, a second or even third tune-up could be required.

- Winter Storage and Spring Commissioning Checklists - use these sections to guide you through the various parts of boat and motor maintenance that protect your valued boat through periods of storage and return it to operating condition when it is time to use it again.

- Specification Charts - located at the end of this section are quick-reference, easy to read charts that provide you with critical information such as General Engine Specifications, Maintenance Intervals, Lubrication Service (Intervals and Lubricant Types) and Capacities.

#### Engine Identification

- See Figures 1 thru 5

From 1997 to 2003 Yamaha produced an extremely large number of models with regards to horsepower ratings, as well as a large number of trim and option variances on each of those models. In this service guide, we've included all of the models, including the 1-3 cylinder inline models, as well as V4 and V6 motors. We chose to do this because of the many similarities these motors have to each other. But, enough differences exist that many procedures will apply only to a sub-set of these motors. When this occurs, we'll either refer to the differences within a procedure or, if the differences are more significant, we'll break the motors out and give separate procedures. In order to prevent confusion, we try to sort and name the models in a way that is most easily understood.



Fig. 1 A model ID tag, and often a date of manufacture tag, is found on the port . . .

# Yamaha 70hp Manual

**Joan Coles, Clarence W. Coles**



## **Yamaha 70hp Manual:**

Yamaha Outboard Shop Manual Kalton C. Lahue,1986      *Seloc's Yamaha Outboard* Joan Coles,Clarence W. Coles,1987

**Technologies for Conserving Species** United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Natural Resources, Agriculture Research, and Environment,1988      Books in Print Supplement ,2002

Tribology Data Handbook E. Richard Booser,1997-09-26 This handbook is a useful aid for anyone working to achieve more effective lubrication better control of friction and wear and a better understanding of the complex field of tribology Developed in cooperation with the Society of Tribologists and Lubrication Engineers and containing contributions from 74 experts in the field the Tribology Data Handbook covers properties of materials lubricant viscosities and design friction and wear formulae The broad scope of this handbook includes military industrial and automotive lubricant specifications evolving areas of friction and wear performance and design considerations for machine elements computer storage units and metal working and more Important guidelines for the monitoring maintenance and failure assessment of lubrication in automotive industrial and aircraft equipment are also included Current environmental and toxicological concerns complete this one stop reference With hundreds of figures tables and equations as well as essential background information explaining the information presented this is the only source you need to find virtually any tribology information      MotorBoating ,1998-07

MotorBoating ,1979-12      **Boating** ,2004-11      **Fuels and Lubricants Handbook** ,      **Field & Stream** ,1998-05

FIELD STREAM America s largest outdoor sports magazine celebrates the outdoor experience with great stories compelling photography and sound advice while honoring the traditions hunters and fishermen have passed down for generations

**WALNECK'S CLASSIC CYCLE TRADER, NOVEMBER 2002** Causey Enterprises, LLC,      *Atlantic Fisherman* ,1984-12      Boating ,2004-01      **Yamaha Outboard Shop Manual** Editors of Haynes Manuals,2014-12-15 Yamaha 75 HP 80 HP 90 HP 100 HP 115 HP Inline 4 and 200 HP 225 HP and 250 HP 3 3L V6 Outboards manual Includes Color Wiring Diagrams Clymer Marine and PWC manuals are the 1 source for DIY maintenance troubleshooting and repair With step by step procedures combined with detailed photography and extensive use of exploded parts views Clymer manuals are a must have tool for the do it yourselfer Models Covered Yamaha 75 HP 2000 20013 Yamaha 80 HP 2000 2013 Yamaha 90 HP 2000 2013 Yamaha 100 HP 2000 2013 Yamaha 115 HP 2000 2013 Yamaha 200 HP 2000 2013 Yamaha 225 HP 2000 2013 Yamaha 250 HP 2000 2013      Diver ,1991      California Angler ,1992      **Federal Trade Commission Decisions** United States. Federal Trade Commission,1980      MotorBoating ,1973-04      *Outboard Engines* Edwin R. Sherman,1997 Outboard Engines fills the gap between owner s manuals that don t even tell you how to change a spark plug and professional shop manuals that detail how to do a complete rebuild It covers basic principles and techniques for a wide variety of outboards four stroke as well as two stroke with the emphasis on maintenance and advanced troubleshooting Ed Sherman s clear explanations and diagrams take you step by step through the basics and beyond helping you track down even the most

elusive problems a modern outboard can throw in your way his methodical approach can save you a world of frustration and peril as well as time and a half weekend mechanics charges      **Field & Stream** ,1988-03 FIELD STREAM America s largest outdoor sports magazine celebrates the outdoor experience with great stories compelling photography and sound advice while honoring the traditions hunters and fishermen have passed down for generations

## Unveiling the Magic of Words: A Report on "**Yamaha 70hp Manual**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Yamaha 70hp Manual**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

<http://www.frostbox.com/data/publication/index.jsp/Twenty%20Tales%20Of%20Arousal%20Twenty%20Explicit%20Erotica%20Stories%20English%20Edition.pdf>

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