

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 2 Stroke 70hp Outboard Service Manual

Thomas Fleming Day



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Yamaha Outboard Shop Manual Kalton C. Lahue,1986 Books in Print Supplement ,2002 **Rudder** Thomas Fleming Day,1933 Fuels and Lubricants Handbook , **MotorBoating** ,1977-09 Automotive Industries ,1969 Vols for 1919 include an Annual statistical issue title varies MotorBoating ,1952-01 MotorBoating ,1961-01 Diver ,1991 **Atlantic Fisherman** ,1984-12 **Hunting & Fishing in Canada** ,1960 Jane's All the World's Aircraft Frederick Thomas Jane,2002 Machinery Market ,1946 *Seloc Yamaha Outboards* Seloc,2004 1701 Covers all 2 250 hp 1 4 cylinder V4 and V6 models 2 stroke and 4 stroke models includes jet drives **Sport Aviation and the Experimenter** ,1975 **Yamaha Outboards, 1997-09 Repair Manual** ,2009 The Waterways Journal ,1952 **Outboard Two-Stroke and Four-Stroke Engine Repair Manual** Pasquale De Marco,2025-04-25 In the realm of outboard engines knowledge is the key to unlocking peak performance and ensuring smooth sailing Whether you re a seasoned boater or just starting out this comprehensive guide is your trusted companion on the water With crystal clear instructions and detailed illustrations this book empowers you to Diagnose and rectify common outboard engine issues with ease saving you time money and frustration Maintain your outboard engine meticulously extending its lifespan and optimizing its performance Maximize the potential of your outboard engine unlocking hidden power and efficiency gains that transform your boating experience Navigate the waters safely and confidently with expert guidance on preventing accidents and ensuring your well being From the basics of outboard engine operation to advanced troubleshooting techniques this book is your trusted advisor empowering you to conquer any challenge that arises on the water Step by step instructions coupled with insightful explanations equip you with the skills and knowledge to maintain repair and enhance your outboard engine ensuring years of trouble free operation Whether you re looking to tackle DIY projects or simply expand your understanding of outboard engines this book is your indispensable resource With its comprehensive coverage and practical approach you ll become a more confident and capable boater ready to embark on unforgettable adventures Invest in this essential guide today and elevate your boating experience to new heights Let the open waters become your playground as you navigate them with confidence and expertise If you like this book write a review on google books *Yamaha Outboard* Joan Coles,Clarence W. Coles,1998-03 SELOC Marine maintenance and repair manuals offer the most comprehensive authoritative information available for outboard inboard stern drive and diesel engines as well as personal watercraft SELOC has been the leading source of how to information for the marine industry since 1974 Designed and written to serve the needs of the professional mechanic do it yourself boat enthusiast instructor and student these manuals are based on actual teardowns done by Chilton Marine s editors authors in our on site facility Providing complete coverage on everything from basic maintenance to engine overhaul every manual features Simple to follow step by step illustrated procedures Hundreds of exploded drawings photographs and tables Troubleshooting sections accurate specifications and wiring diagrams Recognized and used by

technical trade schools as well as the U S military Covers all 115 225 Hp V4 and V6 2 stroke models Also includes advanced oil injection and counter rotating drive Nearly 750 illustrations *Evinrude/Johnson Outboard Shop Manual* Editors of Haynes Manuals,2015-01-15 Evinrude Johnson 2 70 HP two stroke outboards including Jet Drive models manual 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 Evinrude Johnson 15 HP 1995 2007 ManualEvinrude Johnson 18 Jet 1995 2007 ManualEvinrude Johnson 2 HP 1995 2007 ManualEvinrude Johnson 20 HP 1995 2007 ManualEvinrude Johnson 25 HP 1995 2007 ManualEvinrude Johnson 28 Jet 1995 2007 ManualEvinrude Johnson 28 Special 1995 2007 ManualEvinrude Johnson 3 HP 1995 2007 ManualEvinrude Johnson 3 3 HP 1995 2007 ManualEvinrude Johnson 3 5 HP 1995 2007 ManualEvinrude Johnson 30 HP 1995 2007 ManualEvinrude Johnson 35 HP 1995 2007 ManualEvinrude Johnson 4 Deluxe 1995 2007 ManualEvinrude Johnson 4 HP 1995 2007 ManualEvinrude Johnson 40 HP 1995 2007 ManualEvinrude Johnson 48 Special 1995 2007 ManualEvinrude Johnson 50 HP 1995 2007 ManualEvinrude Johnson 50 Special 1995 2007 ManualEvinrude Johnson 6 HP 1995 2007 ManualEvinrude Johnson 60 HP 1995 2007 ManualEvinrude Johnson 70 HP 1995 2007 ManualEvinrude Johnson 8 HP 1995 2007 ManualEvinrude Johnson 9 9 HP 1995 2007

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