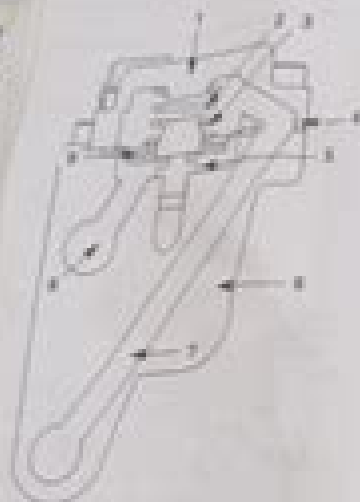


Trucker Valve

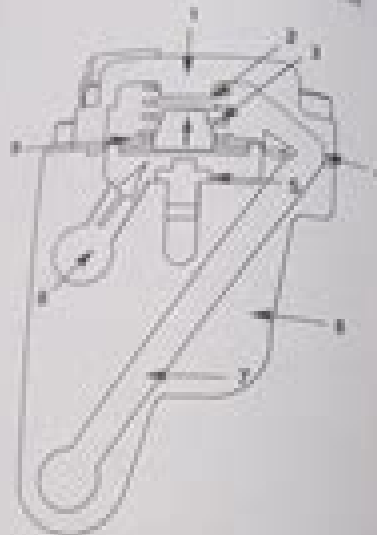
Engine On/Off Position



- 1 - The Cover
- 2 - Spring Retainer (not shown)
- 3 - Spring
- 4 - Diaphragm (not in seat)
- 5 - Air Valve
- 6 - The Passage from Air Compressor
- 7 - Fuel from Passage from Diesel Fuel Pump
- 8 - Diaphragm Assembly

The trucker is located in the dashboard fuel rail assembly. The CP system must maintain a constant 10 psi pressure difference between the fuel pressure and air pressure in the rail, at all times. The trucker is designed to maintain the 10 psi differential when an air or fuel pressure suddenly rises (a pulse generated by the compressor's stroke or by the fuel injectors opening and closing). The trucker contains a spring on the air side of the diaphragm. The spring exerts the diaphragm against the diaphragm's seat when the engine is not running.

Engine in Operating Position



After the engine starts, and the fuel and air pressure reach normal operating range, the fuel pressure will compress the spring and the diaphragm will move slightly away from the seat to a neutral position. At this point the pressure on both sides of the trucker's diaphragm is equal (10 psi spring pressure + 80 psi air pressure = 90 psi fuel pressure).

Any air or fuel pressure "spikes" on one side of the diaphragm will transfer this pressure rise to the other system (air or fuel) on the other side of the diaphragm. Both systems will have a momentary increase in pressure so that the 10 psi difference between air and fuel system pressures can be maintained.

Note: To prevent excessive wear in the seat, the trucker is calibrated to allow the diaphragm to be slightly away from the seat during normal operation.

TRUCKER VALVE REMOVAL

- Remove 4 screws, securing trucker valve and air rail trucker assembly.



- Remove
- Insert trucker diaphragm for only fuel
- Insert trucker cover O-ring for fuel and air
- Insert trucker components as required.



- 1 - Diaphragm
- 2 - Spring
- 3 - O-Ring

TRUCKER VALVE INSTALLATION

NOTE: Apply a light coat of 2-4-C oil/lube to trucker diaphragm and cover O-ring to aid in their insertion on fuel rail after installing trucker valve to fuel rail.

NOTE: Apply anti-seize grease (copper based) or 2-4-C oil/lube to trucker valve actuating screw threads.

- Position diaphragm, spring and O-ring into fuel rail.



- 1 - Diaphragm
- 2 - Spring
- 3 - O-Ring

- Place cover over diaphragm/spring/O-ring assembly and secure with 4 screws. Torque screws to 10 ft. lb. (3.3 Nm).



- 1 - Cover
- 2 - Screws (Torque to 10 ft. lb. (3.3 Nm))

Mariner 135 Hp Outboard Service Manual

G Thomas



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Seloc Mercury/Mariner Outboards, 1990-00 Repair Manual Scott A. Freeman, 1900 **Outboard Motor Service Manual: Motors below 30 hp**, 1979 **Outboard Motor Service Manual** Intertec Publishing, 1987 Detailed tips on periodic servicing troubleshooting general maintenance and repair are explicitly outlined in this manual Repair is easy with the specifications and step by step repair procedures included for hundreds of models Volume II covers models with 30hp and above Mercury/Mariner 75-250 HP Two-Stroke 1998-2009 Editors of Clymer Manuals, 2015-12-01 Mercury Mariner 65 Jet 1998 2009 Mercury Mariner 75 HP 1998 2009 Mercury Mariner 80 Jet 1998 2009 Mercury Mariner 90 Jet 1998 2009 Mercury Mariner 100 HP 1998 2009 Mercury Mariner 105 Jet 1998 2009 Mercury Mariner 115 HP 4 Cyl 1998 2009 Mercury Mariner 115 HP Optimax V 6 1998 2009 Mercury Mariner 125 HP 1998 2009 Mercury Mariner 135 HP 1998 2009 Mercury Mariner 135 HP Optimax 1998 2009 Mercury Mariner 140 Jet 1998 2009 Mercury Mariner 150 HP Carburetor Equipped 1998 2009 Mercury Mariner 150 HP EFI 1998 2009 Mercury Mariner 150 XR6 1998 2009 Mercury Mariner 150 HP Optimax 1998 2009 Mercury Mariner 150 Mag III 1998 2009 Mercury Mariner 175 HP Carburetor Equipped 1998 2009 Mercury Mariner 175 HP EFI 1998 2009 Mercury Mariner 175 HP Optimax 1998 2009 Mercury Mariner 200 HP Carburetor Equipped 1998 2009 Mercury Mariner 200 HP EFI 1998 2009 Mercury Mariner 200 HP Optimax 1998 2009 Mercury Mariner 225 HP Carburetor Equipped 1998 2009 Mercury Mariner 225 HP EFI 1998 2009 Mercury Mariner 225 HP Optimax 1998 2009 Mercury Mariner 250 HP EFI 1998 2009 TROUBLESHOOTING LUBRICATION MAINTENANCE AND TUNE UP ENGINE TOP END ENGINE LOWER END CLUTCH AND EXTERNAL SHIFT MECHANISM TRANSMISSION AND INTERNAL SHIFT MECHANISM FUEL EMISSION CONTROL AND EXHAUST SYSTEMS ELECTRICAL SYSTEM COOLING SYSTEM WHEELS TIRES AND DRIVE CHAIN FRONT SUSPENSION AND STEERING REAR SUSPENSION BRAKES BODY AND FRAME COLOR WIRING DIAGRAMS *Subject Guide to Books in Print*, 1993 **Books in Print Supplement**, 2002 **Bibliography of Nautical Books** Alan Obin, 2000-02 This is the 15th annual edition of the Bibliography of Nautical Books a reference guide to over 14 000 nautical publications It deals specifically with the year 2000 *Boating Information*, 1992 The Work Boat, 1995 **MotorBoating**, 1974-01 Sea and Pacific Motor Boat, 1970 **Evinrude 50 to 135 Hp. Outboard Motor Service Manual** Outboard Marine Corporation. Evinrude Motors Division, 1976 *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 *Paperbound Books in Print*, 1991 **The**

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Table of Contents Mariner 135 Hp Outboard Service Manual

1. Understanding the eBook Mariner 135 Hp Outboard Service Manual
 - The Rise of Digital Reading Mariner 135 Hp Outboard Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mariner 135 Hp Outboard Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mariner 135 Hp Outboard Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mariner 135 Hp Outboard Service Manual
 - Personalized Recommendations
 - Mariner 135 Hp Outboard Service Manual User Reviews and Ratings

- Mariner 135 Hp Outboard Service Manual and Bestseller Lists
- 5. Accessing Mariner 135 Hp Outboard Service Manual Free and Paid eBooks
 - Mariner 135 Hp Outboard Service Manual Public Domain eBooks
 - Mariner 135 Hp Outboard Service Manual eBook Subscription Services
 - Mariner 135 Hp Outboard Service Manual Budget-Friendly Options
- 6. Navigating Mariner 135 Hp Outboard Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mariner 135 Hp Outboard Service Manual Compatibility with Devices
 - Mariner 135 Hp Outboard Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mariner 135 Hp Outboard Service Manual
 - Highlighting and Note-Taking Mariner 135 Hp Outboard Service Manual
 - Interactive Elements Mariner 135 Hp Outboard Service Manual
- 8. Staying Engaged with Mariner 135 Hp Outboard Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mariner 135 Hp Outboard Service Manual
- 9. Balancing eBooks and Physical Books Mariner 135 Hp Outboard Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mariner 135 Hp Outboard Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mariner 135 Hp Outboard Service Manual
 - Setting Reading Goals Mariner 135 Hp Outboard Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mariner 135 Hp Outboard Service Manual
 - Fact-Checking eBook Content of Mariner 135 Hp Outboard Service Manual
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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