

## CHAPTER FOUR - CARBURETION

### SERVICE BULLETIN REFERENCES

#### DESCRIPTION OF CARBURETION

##### CARBURETOR PRINCIPLE

Both types of carburetors used on the motors deliver a controlled mixture and quantity of highly combustible vapor to the induction passage; from there the mixture goes to the crankcase and to the combustion chamber. In the outboard motor, the piston chamber is, of course, the combustion chamber. The carburetor controls the flow of fuel from the tank, breaks the liquid fuel into vapor form, mixing it with the correct amount of air so that the resulting combination will burn under compression so rapidly, and forcefully, that mechanical energy or power is produced.

##### CARBURETOR USED ON 3 DELUXE, 5 STD., AND EARLY 5 DELUXE MODELS

The flow of fuel is by gravity from the tank to the carburetor float bowl. This flow can be shut-off by the shut-off valve in the carburetor or tank. Strainers remove foreign particles which might impair operation. The float in the bowl keeps the fuel in the bowl at a fairly constant level. As the fuel level in the bowl goes down, the float follows the level of fuel. The inlet needle mounted in the float cork is moved downward by the downward movement of the float which in turn moves the inlet valve on the inlet needle away from the seat. This allows fuel to enter into the bowl until the correct level is reached, at which time the carburetor float in the elevated position moves the inlet needle valve to the closed position, stopping the flow of fuel.

The fuel is drawn in liquid form from the bowl into the carburetor passages where air is introduced to form a combustible mixture. The quantity of fuel reaching the jet orifice in the induction passage is determined by the carburetor adjusting needle setting. The quantity of air introduced in the mixture is determined by the throttle valve. The throttle valve setting depends on the position of the magneto handle

acting through the throttle lever cam against the throttle valve lever.

##### CARBURETORS USED ON LATE 5 DELUXE AND LARGER MOTORS

The operation of these carburetors is essentially the same as on the smaller motors. The construction is quite different, however. Where the other type carburetor has the inlet needle mounted on the free-floating float, these carburetors have a hinged float and the needle inlet assembly mounted separately. Some have the needle inlet assembly mounted in the float bowl; others in the upper carburetor body.

The choking or priming procedure is also different. On the smaller motors, priming is accomplished by holding the inlet needle valve open, increasing the amount of fuel flowing into the carburetor. On these motors, a butterfly valve in the air passage is closed in the choking process, cutting down on the supply of air mixed with the fuel.

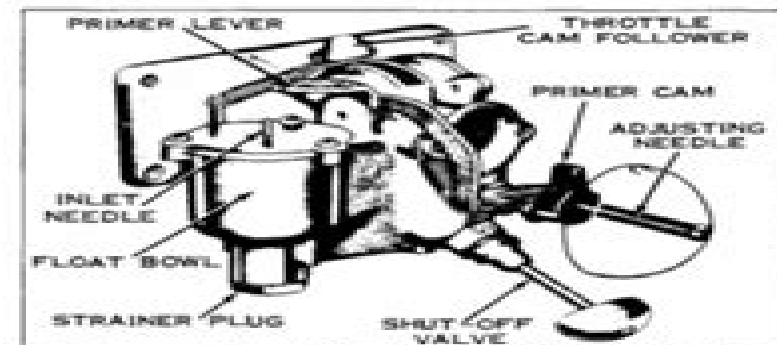


Figure 4-1. Carburetor for SD10, SD11 and 5 Standard Motors

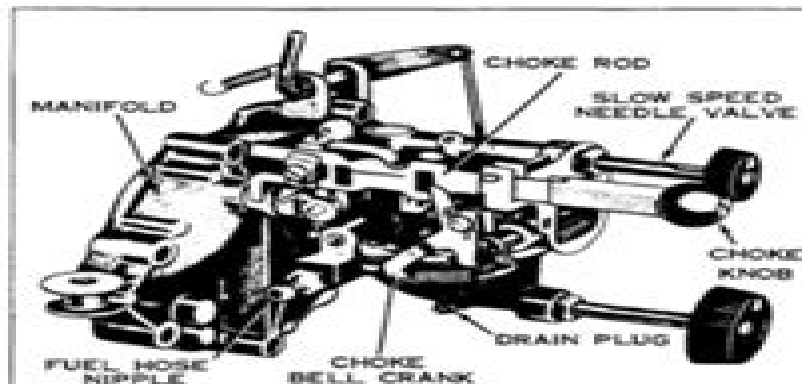


Figure 4-2. Carburetor for Late 12 H.P. Motors

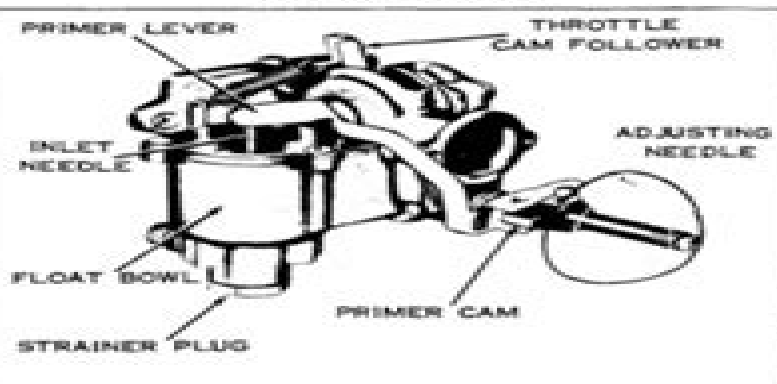


Figure 4-3. Carburetor for 3 H.P. Motors

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**AN Whitehead**



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## **Table of Contents Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale**

1. Understanding the eBook Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - The Rise of Digital Reading Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - Advantages of eBooks Over Traditional Books
2. Identifying Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - 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 Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - User-Friendly Interface
4. Exploring eBook Recommendations from Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - Personalized Recommendations
  - Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale User Reviews and Ratings
  - Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale and Bestseller Lists
5. Accessing Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale Free and Paid eBooks
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  - Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale eBook Subscription Services
  - Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale Budget-Friendly Options

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  - ePub, PDF, MOBI, and More
  - Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale Compatibility with Devices
  - Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - Highlighting and Note-Taking Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - Interactive Elements Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
8. Staying Engaged with Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
9. Balancing eBooks and Physical Books Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - Setting Reading Goals Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - Fact-Checking eBook Content of Outboard Motor Carburetor Manuals Sea King Chryslr Omc Gale
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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