

INSTRUCTION SHEET FOR EVINRUDE-JOHNSON CARBURETOR

NOTE: Numbers in parenthesis used in these instructions are the index numbers on the exploded view drawing on opposite side of sheet.

I. DISASSEMBLY

Disassemble the carburetor to the extent indicated by the drawing on opposite side of sheet, and in the order of index numbers on the drawing. Removal of these parts will permit proper inspection and cleaning of the various carburetor parts. Give special attention to the following:

a. Inspect needle valves (2 and 6) for damage caused by overtightening against their seats in the float chamber and body assemblies. Replace the parts if grooves have been made on tapered ends or if parts have been mutilated from abusive handling.

b. Check the float assembly (17) for damage due to careless servicing, and looseness of the float lever on the cork float ring. Replace the float if damaged.

c. Check the nozzle (21) for distortion and mutilated screwdriver slot. Replace for either condition.

d. Replace all damaged or defective parts.

e. Make sure the nozzle gasket (20) is removed. It will probably stick to either the carburetor body assembly (14) or float chamber assembly (22). Scrape off fragments.

II. CLEANING.

A regular commercial carburetor cleaning solvent is ideal for cleaning the carburetor body and parts. If this solvent is not available, procure some low-grade lacquer thinner and clean parts as follows:

a. Use enough solvent to cover the body (14) and float chamber (22) and drop all parts except float into the solvent.

b. Allow the parts to "soak" for approximately 10 minutes to loosen foreign material in internal passages.

c. Using a small bristle brush, brush the parts until all foreign accumulations have been removed.

d. Use clean solvent to rinse, then blow out all passages and orifices with compressed air.

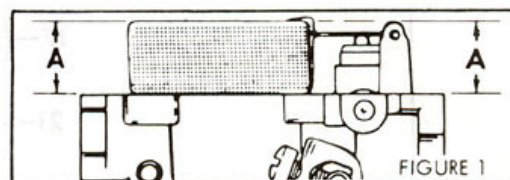
CAUTION: Do not use rags or waste for cleaning or drying parts. Also do not permit the float assembly (17) to come in contact with the cleaning solvent .

Rinse float in clean gasoline if dirty.

III. REASSEMBLY.

Replace old parts with corresponding new parts in kit and assemble carburetor in reverse order of index numbers on the exploded drawing on opposite side of sheet. Be sure to observe the following conditions.

a. After installing the float assembly (17), hold the carburetor body (14) upside down and measure the float height as shown in figure 1. Distance "A" should be the same at both sides. If an adjustment is required, carefully bend the float lever until the two measurements are equal.



b. Rotate needle valves (2 and 6) carefully into their respective castings until they seat (never force them). Back needles out for a trial setting as follows: One turn for (2) and two turns for (6). These adjustments must be rechecked after starting engine.

c. Make sure the nozzle gasket (20) is in place during assembly.

IV. ADJUSTMENTS

Install the carburetor on engine and connect throttle and other controls. This carburetor has a fixed idle air control through holes in throttle valves. No attempt should be made to change this arrangement.

a. Start and warm up engine.

b. Accelerate the engine rapidly and note response. Adjust high-speed needle (6) clockwise (toward lean) as far as possible to keep engine from hesitating when throttle is opened quickly.

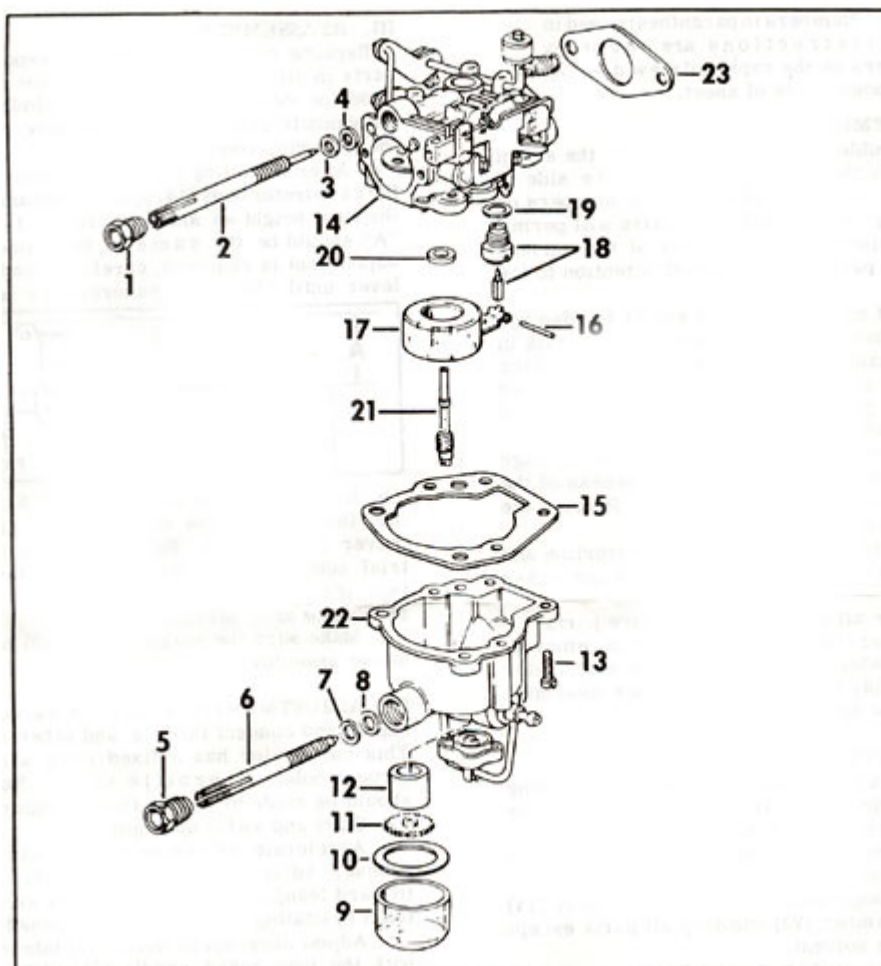
c. Adjust slow-speed needle (2) intermittently with the high-speed needle (6) until a smooth idle is obtained.

NOTE: Be sure to allow a few seconds between each trial adjustment for the engine to "settle down".

d. Sharpen both adjustments by setting the idle mixture with slow-speed needle valve (2) and power response (high-speed) with high-speed needle valve (6).

e. Test carburetor by operating the equipment and finalize both idle, and high-speed adjustments by rotating each screw slightly and noting response.

PARTS LIST FOR EVINRUDE JOHNSON CARBURETOR



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|----|--|----|----------------------------|
| 1 | Slow-speed needle valve packing nut | 13 | Float chamber screw |
| 2 | Slow-speed needle valve | 14 | Carburetor body assembly |
| 3 | Slow-speed needle valve packing washer | 15 | Float chamber gasket |
| 4 | Slow-speed needle valve packing | 16 | Float hinge pin |
| 5 | High-speed needle valve packing nut | 17 | Float assembly |
| 6 | High-speed needle valve | 18 | Float valve and seat |
| 7 | High-speed needle valve packing washer | 19 | Float valve seat gasket |
| 8 | High-speed needle valve packing | 20 | Nozzle gasket |
| 9 | Fuel filter bowl | 21 | Nozzle |
| 10 | Fuel filter bowl gasket | 22 | Float chamber assembly |
| 11 | Filter element nut | 23 | Carburetor mounting gasket |
| 12 | Filter element | | |