

# CARBURETOR ASSEMBLIES

## 2 - Cylinder Engines

### 1. Removal

- a. Remove hex head nuts from mounting studs.
- b. Pull carburetor free.
- c. Remove choke lever and rod, if necessary.
- d. Remove fuel shut-off valve, choke shutter and spring, if necessary.

### 2. Replacement

- a. Place new carburetor gasket on crankcase plate.
- b. Install carburetor by slipping over studs and securing with 2 washers and nuts. Tighten with open end wrench.
- c. Replace throttle arm on carburetor with screw to hold in place.
- d. Replace choke rod on carburetor and secure with cotter pin.
- e. Replace choke shutter by inserting slot over choke rod arm linkage and replace screw (round head slotted).
- f. Replace tension spring around screw and then tighten.

- g. Replace fuel shut-off valve (on older models) by inserting assembly (brass "T" and valve) into carburetor and tighten with wrench to secure gas-tight fit. Do not over-tighten, or threads may be stripped.

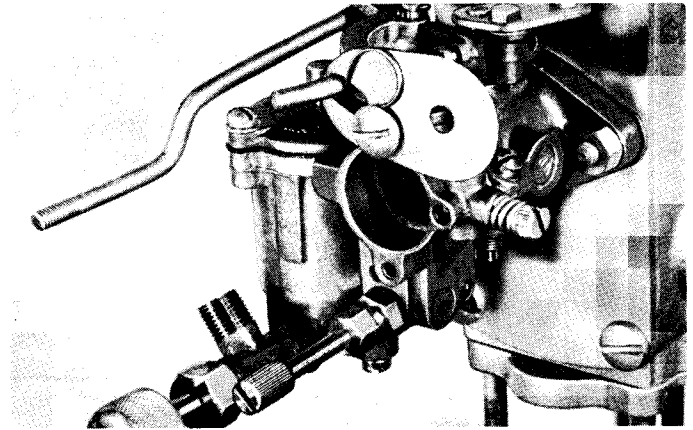


Figure 14. Carburetor Assembly Installed on 2-Cylinder Mark 7 Engine

## 4-and-6 Cylinder Engines

### 1. Removal

- a. Remove self-locking nuts (crimped edge) in order to remove carburetors and choke assemblies complete from crankcase.
- b. Remove choke assembly.
- c. Pull cotter pins from choke lever pivot pins.
- d. Remove choke rod retaining spring from high speed adjusting screw.
- e. Remove choke rod and choke levers.
- f. Unscrew choke lever pivot pins with 7/16" wrench.
- g. Remove choke shutters and spring.
- h. Remove throttle pickup brackets and throttle pickup levers complete by removing screws which secure their carburetors.
- i. Pull entire assembly down, and it will slide off throttle shafts.

### 2. Replacement

Reassemble carburetors as a unit before attaching to engine crankcase.

- a. Install throttle pickup bracket and throttle pickup lever with mounting screw on lower carburetors, sliding throttle pickup lever into top carburetor's throttle shutter shaft slot.
- b. Replace choke shutters and springs by screwing in choke lever pivot pins.
- c. Replace choke levers and choke lever rod to choke lever pivot pins and insert cotter pins to hold to lever pivot. Be sure to insert choke lever pins into choke springs and slot in choke shutter while installing on pivot pin.

- d. Connect choke rod, positioning spring to choke rod pin and secure to carburetor adjustment screw.
- e. Install carburetor flange gaskets.
- f. Attach assembly to crankcase of engine.

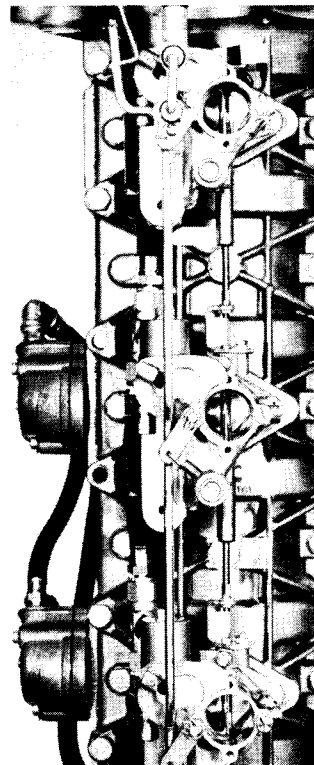


Figure 15. Carburetor Assemblies and Linkage Installed, Front View of Mark 75

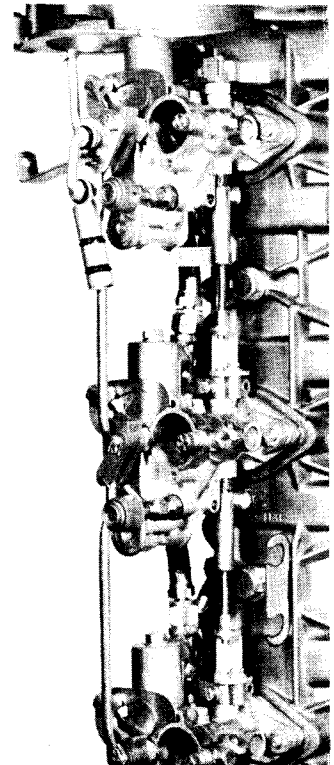


Figure 16. Carburetor Assemblies and Linkage Installed, Side View of Mark 75