

INSTRUCTION SHEET

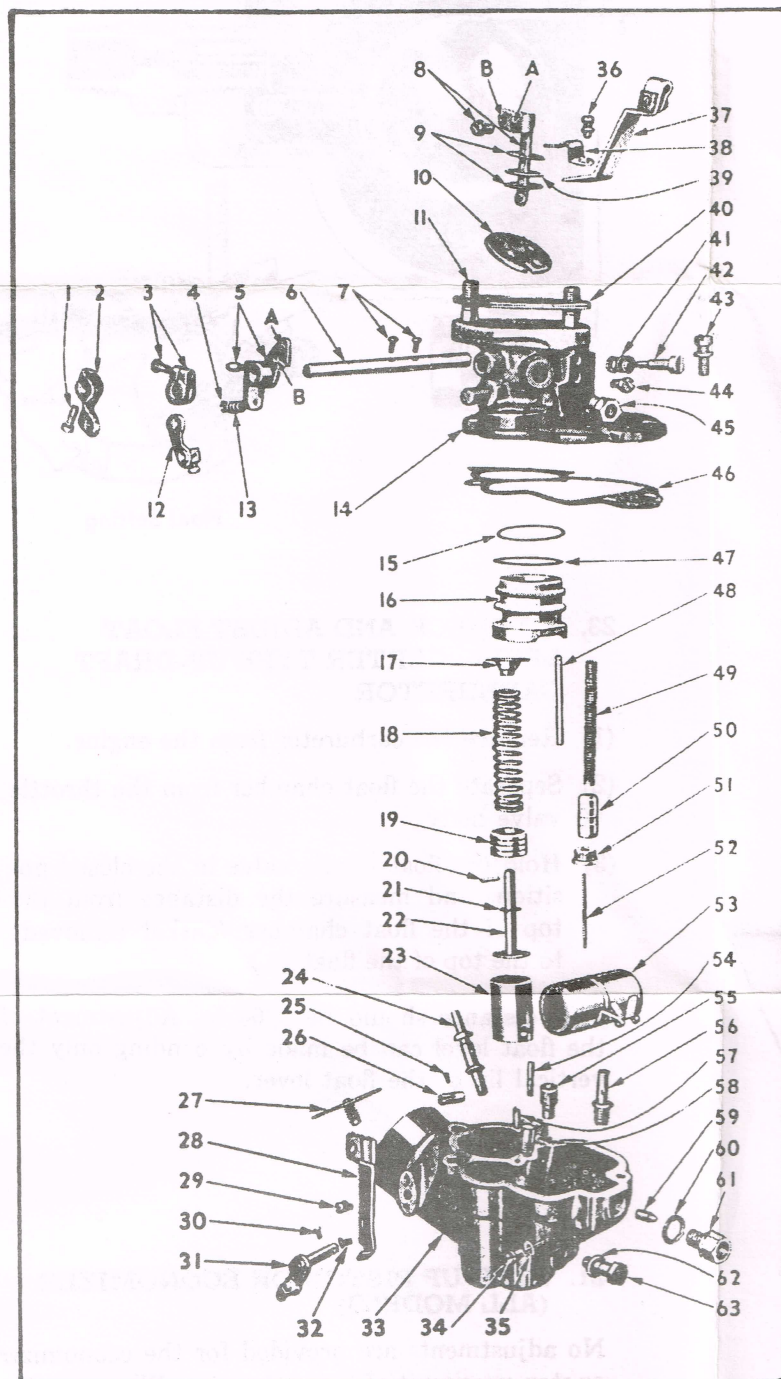
FORM 2050

CARTER CARBURETOR BB UPDRAFT

REF.
NO.

NOMENCLATURE

- 1—Throttle lever clamp screw
 - 2—Throttle lever
 - 3—Throttle shaft dog and clamp screw
 - 4—Throttle lever adjusting screw
 - 5—Pump arm and lock screw
 - 6—Throttle valve shaft
 - 7—Throttle valve attaching screws.
 - 8—Pump link and screw
 - 9—Pump link cover plates
 - 10—Throttle valve
 - 11—Carburetor to manifold stud
 - 12—Throttle lever and wire clamp
 - 13—Throttle lever adjusting screw spring
 - 14—Carburetor body—upper
 - 15—Venturi gasket—upper
 - 16—Venturi
 - 17—Pump collar
 - 18—Pump spring
 - 19—Pump piston
 - 20—Pump collar pin
 - 21—Pump rod gasket
 - 22—Pump rod plate and rod assembly
 - 23—Pump sleeve
 - 24—Nozzle and gasket
 - 25—Choker valve attaching screw
 - 26—Choker stub shaft
 - 27—Choker valve
 - 28—Choke tube bracket
 - 29—Choke tube bracket attaching screw—upper
 - 30—Choker valve attaching screw
 - 31—Choker valve lever and shaft
 - 32—Choke tube bracket attaching screw—lower
 - 33—Carburetor body—lower
 - 34—Float lever pin and plug assembly
 - 35—Float lever pin bushing
 - 36—Tube clamp fastening screw and lock washer
 - 37—Tube clamp
 - 38—Packing retainer
 - 39—Felt
 - 40—Flange gasket
 - 41—Idle adjustment screw spring
 - 42—Idle adjustment screw
 - 43—Body attaching screw and lock washer
 - 44—Idle hole plug
 - 45—Not used
 - 46—Body gasket
 - 47—Venturi gasket—lower
 - 48—Idle passage tube
 - 49—Step-up piston spring
 - 50—Step-up piston
 - 51—Step-up piston plug
 - 52—Step-up push rod
 - 53—Float and lever assembly
 - 54—Idle orifice tube
 - 55—Pump valve assembly
 - 56—Step-up valve cage and ball assembly
 - 57—Body vent tube
 - 58—Check valve cage assembly
 - 59—Gasoline intake needle
 - 60—Needle seat gasket
 - 61—Needle seat
 - 62—Main metering screw gasket
 - 63—Main metering screw
- A—Accelerating pump adjustment—long stroke (winter setting)
B—Accelerating pump adjustment—short stroke (summer setting)



GENERAL EXPLODED VIEW

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO
INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET

ACCELERATING PUMP ADJUSTMENT

- (1) Short Stroke (hole in pump lever nearest throttle shaft). For normal summer temperature (B)
- (2) Long Stroke (hole in pump lever farthest from throttle shaft). For cold weather operation (A)

SERVICE AND ADJUSTMENT INSTRUCTIONS

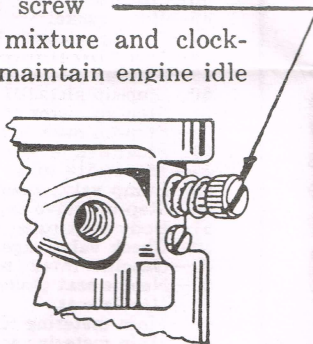
DISASSEMBLE CARBURETOR

- (1) Remove screws which hold upper body and lower body.
- (2) Lift off the upper body and pump assembly.
- (3) Unscrew float hinge pin and lift out float and float needle.
- (4) Remove main jet inlet valve, pump, check valve, and economizer valve assembly (55, 56 and 58).
- (5) Remove the main discharge nozzle.
- (6) Remove vent tube (57).
- (7) Remove step-up piston plug, piston and spring.
- (8) Remove idle passage tube.
- (9) Use compressed air to clean all tubes and jets. Never use a wire or drill. Remove all foreign material which may have accumulated on economizer piston or pump piston and make certain they operate freely.

Assemble by reversing the foregoing operations. The pin end of the economizer piston rod should be inserted in the economizer valve assembly.

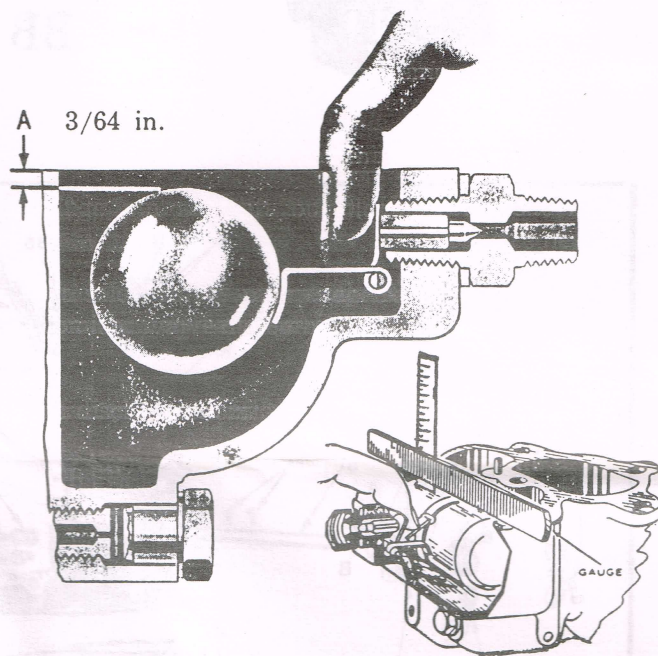
15. IDLE ADJUSTMENTS

With engine running at normal operating temperature (160° F.) and choke button all the way in, turn idle mixture adjusting screw counter-clockwise for richer mixture and clockwise for leaner mixture, and maintain engine idle speed of 450 to 500 R.P.M.



Idle Adjustment
Screw Setting
 $\frac{1}{2}$ to $1\frac{1}{2}$
Turns Open

If a satisfactory engine idle cannot be obtained by turning the idle mixture adjusting screw, check all other related engine adjustments before condemning carburetor.



Float Setting

23. TO CHECK AND ADJUST FLOAT LEVEL, CARTER TYPE UP-DRAFT CARBURETOR

- (1) Remove the carburetor from the engine.
- (2) Separate the float chamber from the throttle valve body.
- (3) Hold the float needle valve in the closed position, and measure the distance from the top of the float chamber (gasket removed) to the top of the float (A)

This distance should be $\frac{3}{64}$ in. Adjustment of the float level can be made by bending only the vertical lip of the float lever.

21. STEP-UP PISTON OR ECONOMIZER (ALL MODELS)

No adjustments are provided for the economizer or step-up circuit of the carburetor. Whenever the carburetor is disassembled, the piston and operating rods should be cleaned, to remove any foreign material that may have accumulated, to assure free operation of the piston. *Do not distort the step-up piston spring.*