

1974-79 FUEL SYSTEMS

Hitachi (S.U.) 1-Barrel Carburetors

Datsun: 1974 260Z

DESCRIPTION

Hitachi S.U. is single barrel sidedraft, variable venturi type carburetor. Venturi opening is automatically adjusted by sliding vacuum piston. Position of piston (up or down) is determined by volume of intake air. Main metering is accomplished by tapered needle valve (attached to vacuum piston) which slides up and down in main metering jet. This tapered needle allows more or less fuel flow as vacuum piston is raised or lowered.

Cold starting is accomplished by manual choke and an auxiliary fuel nozzle (on air intake side of carburetor). Carburetor is also equipped with power valve for acceleration.

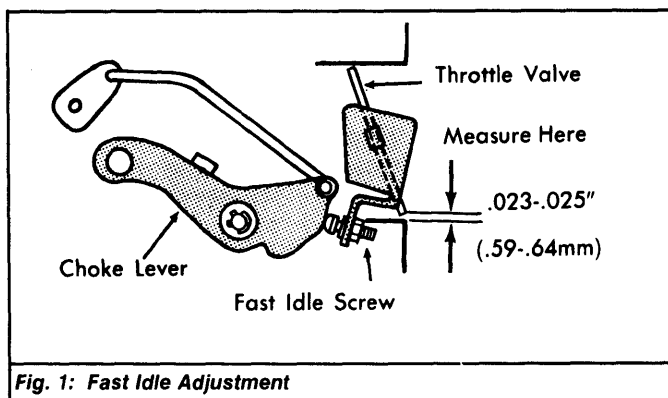
ADJUSTMENTS

IDLE SPEED & MIXTURE

See appropriate TUNE-UP PROCEDURES article.

COLD (FAST) IDLE RPM

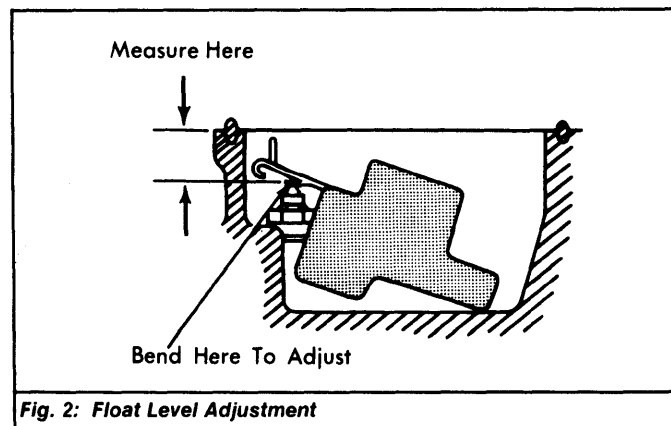
See appropriate TUNE-UP PROCEDURES article for on vehicle adjustment. For bench adjustment, place fast idle screw on 1st (high) step of choke lever (fast idle cam). Measure clearance between throttle valve and carburetor wall. This clearance should be .023-.025" (.59-.64 mm). If necessary, turn fast idle screw in or out as required.



FLOAT LEVEL

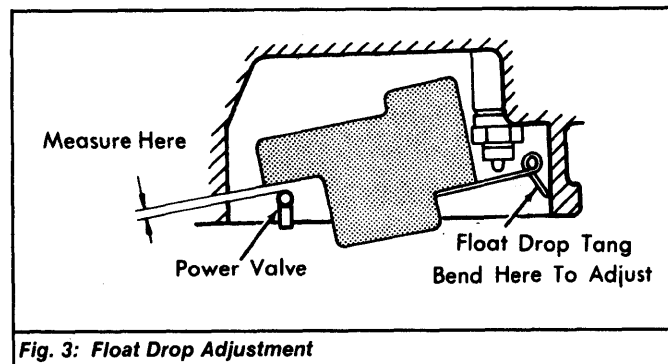
1) Check fuel level through carburetor sight glass. Sight glass is located behind the carburetor (it may be necessary to use a mirror). If fuel level is not between lines, remove carburetor from intake manifold.

2) Remove float chamber cover and invert. Check that both floats touch inner wall, with float cover inverted. Measure clearance from edge of float bowl to float lever tang. Clearance should be .047-.051" (12-13 mm). If necessary, bend float lever tang.



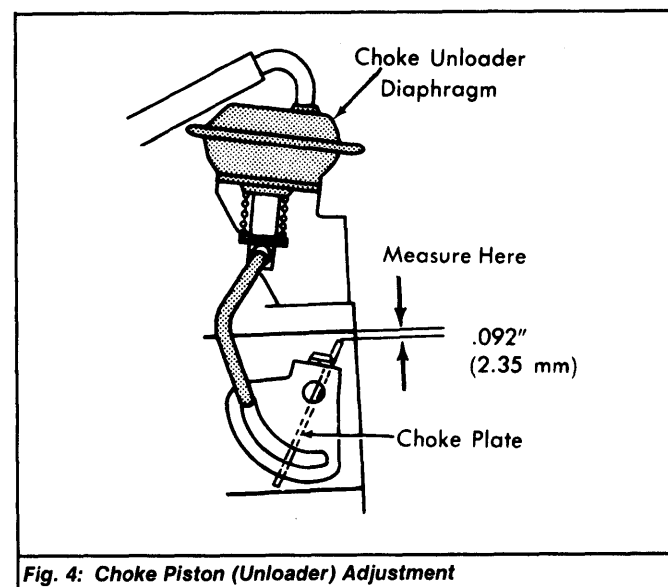
FLOAT DROP

With float bowl removed, hold in upright position and measure gap between float and power valve nozzle. This clearance should be .020-.079" (.5-2.0 mm). If necessary to adjust, bend float drop tang. After installing carburetor on engine, check that fuel level is even with center line in float level window.



CHOKE PISTON (CHOKE UNLOADER)

With choke valve completely closed and held in that position, by a rubber band, grip stem of choke diaphragm with pliers and fully extend. Measure clearance between choke valve and carburetor body. This clearance should be .092" (2.35 mm). If necessary to adjust, bend choke rod.



OVERHAUL

NOTE: Manufacturer does not recommend carburetor overhaul, only the following information is provided.

FLOAT CHAMBER

Remove 7 screws securing float chamber to carburetor body. To reassemble, reverse disassembly procedure.

POWER VALVE

Six screws are used for this valve. Three for securing valve assembly to carburetor and 3 holding valve and assembly together.

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Hitachi (S.U.) 1-Barrel Carburetor (Cont.)

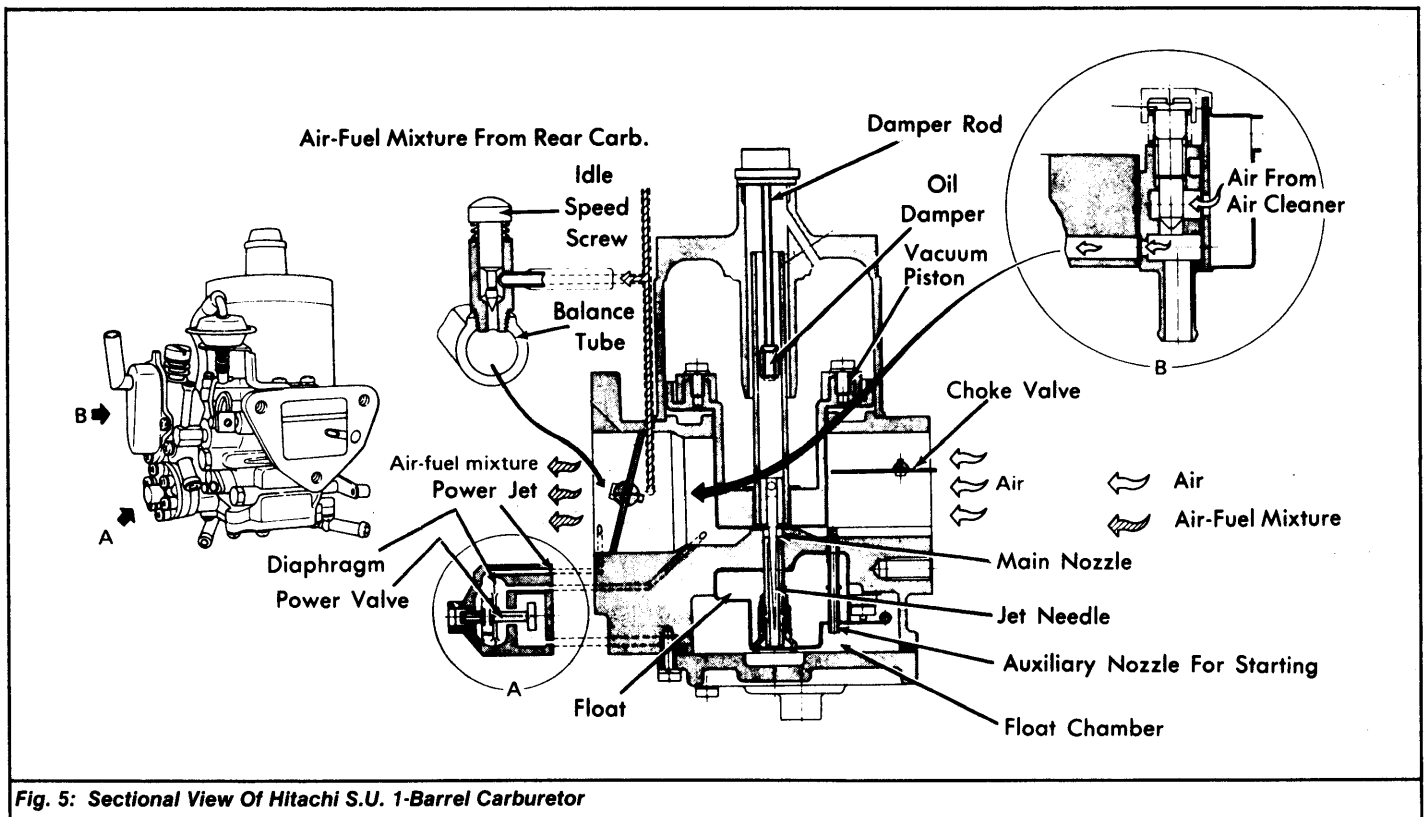


Fig. 5: Sectional View Of Hitachi S.U. 1-Barrel Carburetor