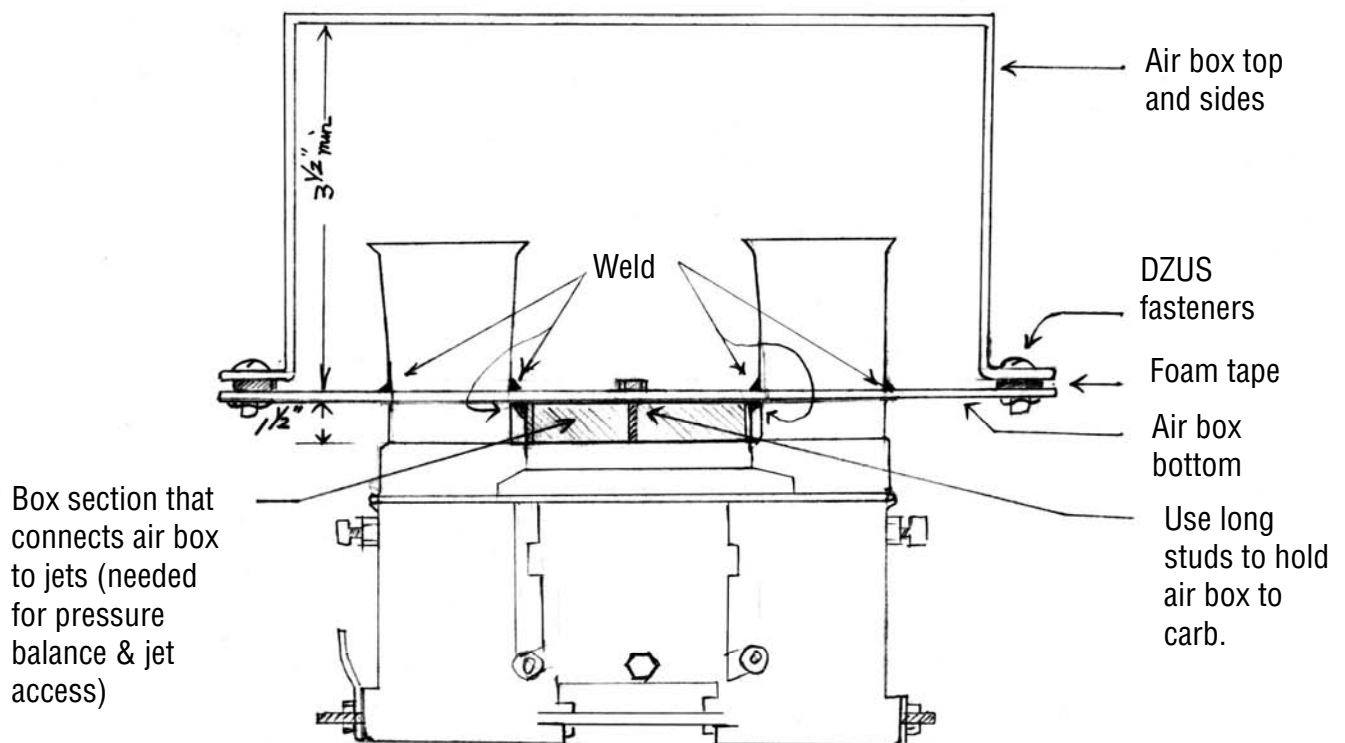


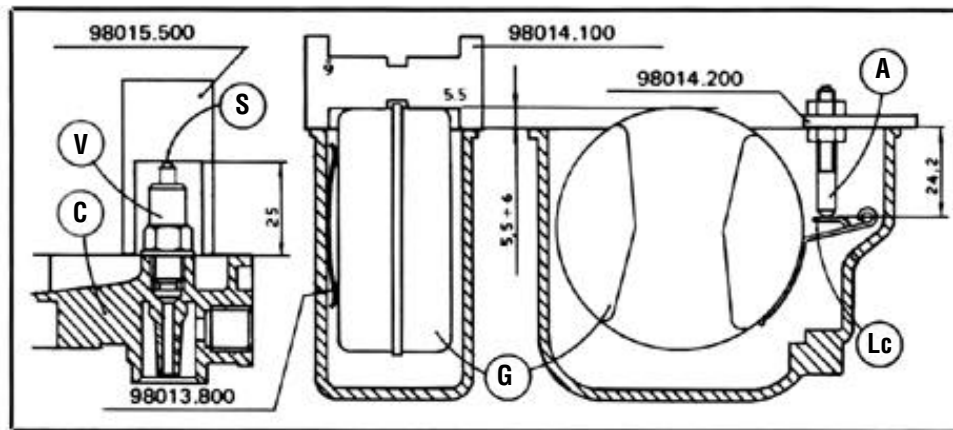
Racing Beat's Modified 51mm Down Draft Weber Carb

Part No. 16602

This carburetor as delivered is designed to be used on a peripheral port 13B Mazda engine with an open exhaust. For best results, a filtered cold air box is highly recommended. The air stacks have been left uninstalled to facilitate this. If a cold air box is used, polish off approximately .003" from the portion of the stacks that would press into the air horn to make a slip fit.

The following diagram illustrates an example of a workable design:





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Adjustment of the Weber Float Level

The float level on a Weber 48 IDA (or "51 IDA") is determined as follows:

A. Setting of the float level should be carried out whenever it is necessary to replace either the float (G) or the needle and seat (S and V). In the latter case it is also desirable to replace the needle and seat gasket.

B. Remove the top cover gasket, taking care not to damage it. Make certain the float (G) can pivot freely on its axis and that the float tongue (LC) does not show any pitting or other signs of wear

C. Insert Weber float spring No. 98013.800 between float (G) and side of fuel bowl.

D. Place Weber adjustable needle and seat gauge 98014.200 preset at 24.2mm, so that the appendage (A) makes contact with the float tongue (LC).

E. By using Weber float gauge No. 98014.100, check that the float (G) protrudes 5.5 to 6.0mm above the carburetor body surface. If necessary, remove the float (G) and carefully alter the position of the float tongue (LC) with a pair of needle nose pliers to affect the correct dimension. Make certain the float tongue (LC) remains perpendicular to the appendage (A).

F. Invert carburetor top cover (C) and check with Weber gauge No. 98015.500 that the distance from the spring loaded ball (S) not depressed, to the carburetor top cover (C) surface is 25.0mm. If necessary change either the needle and seat (S and V) or the needle and seat gasket.

G. Refit top cover (C) to the carburetor body.

RECOMMENDATIONS

	12A Peripheral 48mm Weber	12A Peripheral 51mm Weber (RB modified)	13B Peripheral 51mm Weber
Venturi	43mm	43mm	46mm
Emulsion Tube	F-8	F-8	F-8
Main Fuel Jet	230	235	235
Main Air Jet	120/130	130	120