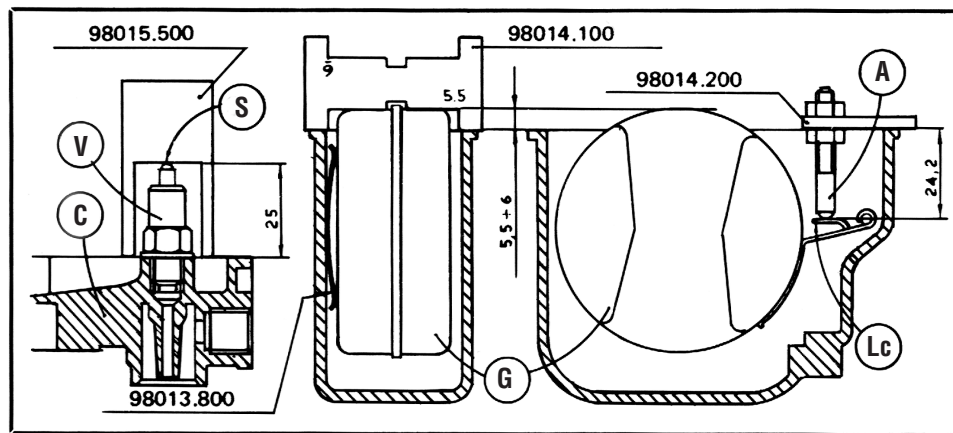


## Racing Beat's 51MM IDA Down Draft Weber Carb Part No. 16602

This Racing Beat-modified Weber carburetor as delivered is designed to be used on a peripheral port 13B Mazda engine with an open exhaust.

### Specifications:

	13B Peripheral 51mm Weber (As configured)	12A Peripheral 51mm Weber (Recommended)
Venturi	46mm	43mm
Emulsion Tube	F-8	F-8
Main Fuel Jet	240	235
Main Air Jet	110	130



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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.

Although stainless steel mesh air horn covers are a popular protective option, we highly recommend a filtered cold air box for best results. Depending on your specific engine application you'll need to fabricate your own filter box per your requirements. The following diagram illustrates an example of a workable design.

