Weber Carburetor Tuning Recommendations for Rotary Engine Applications

The following recommendations are provided as guide for tuning a Weber carburetor for various rotary engine applications. These settings are a result of Racing Beat's tuning experience with the Weber carburetor - your actual settings may differ from these guidelines.

Weber - 48 IDA Carburetor

The 48 IDA is delivered as configured by Weber. Use the following guidelines as a starting point when tuning the carburetor for your application.

Stock Port Engine

13B Engine (6-Port)
Venturi - 40mm • Fuel Jet - No. 195
Air Jet - No. 205 • Emulsion tube - F-4
Needle Valve - 250

Street Port Engine

Equipped with headers & stock muffler

12A Engine
Venturi - 37mm • Fuel Jet - No. 170
Air Jet - No. 150 • Emulsion tube - F-11
Needle valve - No. 250

13B Engine (4-port)
Venturi - 38mm • Fuel Jet - No. 190
Air Jet - No. 160 • Emulsion Tube - F-11
Needle Valve - No. 250

12A Bridge Port Engine

(Equipped with open headers)

12A Engine
Venturi - 42mm • Fuel Jet - No. 240
Air Jet - No. 170 • Emulsion tube - F-11
Needle Valve - No. 300

13B Engine
Not used - Carburetor too small.

12A Peripheral Port Engine

(Equipped with open headers)

12A Engine
Venturi - 43mm • Fuel Jet - No. 230
Air Jet - No. 125 • Emulsion tube - F-8
Needle Valve - No. 300

13B Engine
Not used - Carburetor too small.

Racing Beat - 51 IDA Carburetor

As delivered, the Racing Beat-modified 51 IDA carburetor is tuned for a **13B Peripheral Port** engine. Refer to the guidelines below for your application.

Stock Port Engine

51 IDA carburetor is not recommended for use on a 12A or 13B stock engine.

Street Port Engine

51 IDA carburetor is not recommended for use on a 12A or 13B street port engine.

13B Bridge Port Engine

(Equipped with open headers)

12A Engine
Not used - Carburetor too large.

13B Engine (4-Port)
Venturi - 45mm • Fuel Jet - No. 235
Air Jet - No. 165 • Emulsion tube F-11
Note:Correct size needle valve (300) supplied with RB51 IDA carburetor.

12A Peripheral Port Engine

(Equipped with open headers)

Venturi - 43mm • Fuel Jet - No. 235
Air Jet - No. 130 • Emulsion tube - F-8

Note:Correct size needle valve (300) supplied with RB51 IDA carburetor.

13B Peripheral Port Engine

(Equipped with open headers)

As delivered, the Racing Beat-modified 51 IDA carburetor is tuned for a 13B Peripheral Port engine using these components:

Venturi - 46mm • Fuel Jet - No. 240
Air Jet - No. 110 • Needle valve - 300
Emulsion Tube - F-8