

# INSTRUCTIONS



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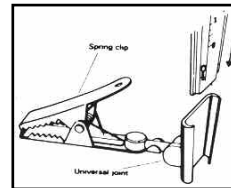
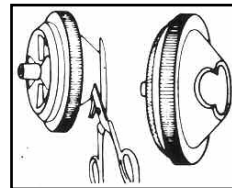
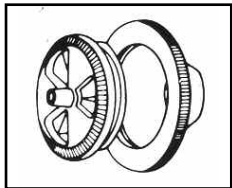
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# Gunson CARBALANCER

## THE AIR-FLOW BALANCER FOR TWIN AND MULTIPLE CARBURETORS INCLUDING SU SOLEX, AUTO-LITE (FORMOCO) STROMBERG, WEBER AND ZENITH

- Better performance
- More Miles per Gallon
- Smoother Acceleration

Carbalancer can be adjusted to fit most carburetors including side-draught and down-draught with air intakes (Venturi) from 25mm to 57mm (1" to 2 1/2") diameter.



### Micro-Metering Head

This component is supplied in two parts. To assemble it is only necessary to push the two units together as illustrated.

For some carburetors with obstructions within the Venturi, it may be necessary to trim portions of the tapered adaptor unit to gain the required clearance.

On some carburetors where the shape of the air intake or obstructing projection interfaces with the Carbalancer, a simple adaptor can usually be made up from rubber hose of similar size.

### Adjustment

Adjustment of the reading on the scale is made by holding the outer rim of the head in one hand and rotating the inner bezzel with the other. Once this adjustment has been made for the engine, it is only necessary to move the head from one carburetor to the other, pressing the adaptor firmly into the Venturi and adjusting the throttle stop screws until the same reading on the scale is given by both or all carburetors.

### Easily read scale

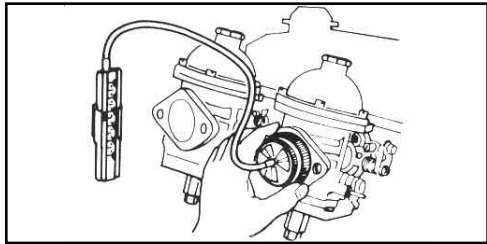
The scale is divided to make readings on individual carburetors easy to remember. In setting the carburetors, the float can be positioned next to convenient mark or number on the scale by adjusting the inner bezzel on the metering head or the throttle screw. The scale has a spring clip which is connected to the scale holder by a universal joint. Both the scale and the holder are tapered and the narrow end of the scale should be pushed into the wide end of the holder. The tension on the universal joint is adjusted by the distance that the scale is pushed into the holder. To avoid the holder losing its springiness, it is advisable that the scale should be removed before storage.

The clip should be fixed to any convenient projection under the bonnet within easy reach of both carburetors and the scale should then be adjusted on the universal joint until it is reasonably vertical. The carburetors may then be balanced in the manner described in the general instructions.

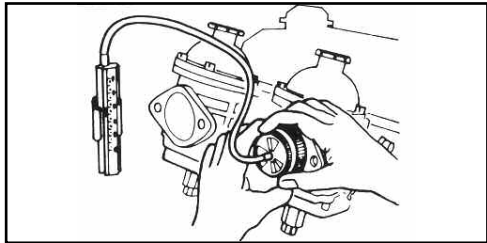
## GENERAL INSTRUCTIONS

Please use these instructions in conjunction with your vehicle manufacturers' handbook.

- 1 Warm up the engine to normal operating temperature.
- 2 Remove air filter assemblies.
- 3 Disconnect throttle linkage between carburetors (if appropriate).
- 4 Start the engine and allow to idle.
- 5 Clip the scale vertically to some convenient part of the vehicle.



- 10 Repeat step 8/9 for successive carburetors.

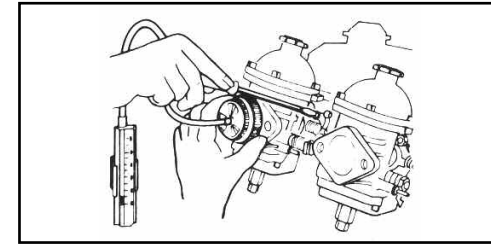


- 11 Reconnect the throttle linkage and check that the balance has not slipped.
- 12 If there is only one throttle stop screw the tick over speed may now be set with gradual adjustment. If there is a throttle stop screw for each carburetor, adjust each one evenly to obtain a suitable idling speed.
- 13 Clean and replace the air filter assemblies.

### CAUTION

As with any plastic component, the CarbBalancer scale will soften if allowed to come in contact with hot engine components, particularly the exhaust manifold. Care should be taken to ensure the unit is not mounted in contact with hot parts of the engine.

- 6 Set the inner bezzel to a fully opened position and press the Venturi adaptor firmly into the Venturi of the first carburetor, holding the outer rim.
- 7 With the outer rim in one hand adjust the inner bezzel to give a reading on the scale at any convenient mark. Do not restrict the breathing of the engine by over adjustment, causing the engine speed to drop.
- 8 Without altering the adjustment on the inner bezzel, remove the Micro Metering Head from the first carburetor and press it into the Venturi of the second carburetor.



- 9 Adjust the throttle screw of the second carburetor (or balancing screw) until the same reading is obtained on the scale.

