

## Guzzi CARC series throttle body balance

Firstly close both of the air bleeds on the throttle bodies. On the 1200 8V it is a 5mm Allen key 'Tube' on the inside of the TB facing down. For the 1100/1200 2V, it's a slotted screw on the outside of the TB. Flat blade screwdriver required.

Don't tighten them too much. Just 'nip' them up.

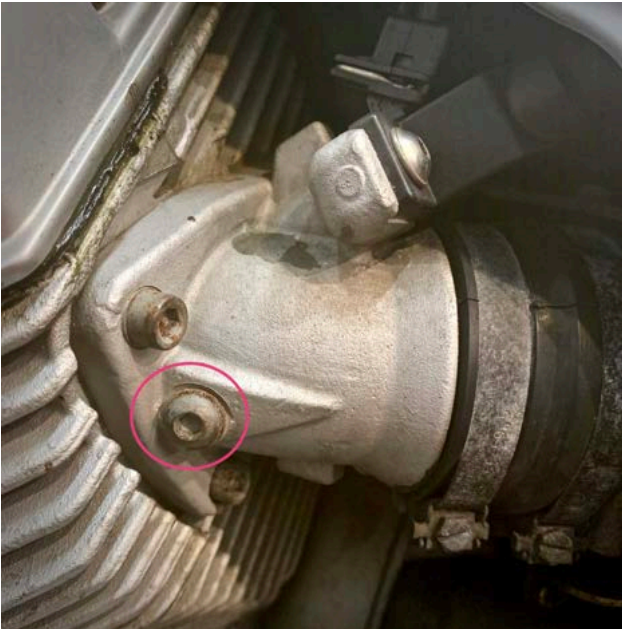
8V air bleeds.



2V air bleeds.



Once these are closed, remove the screws from the inlet manifolds (or disconnected the hoses for the charcoal can on US bikes) and connect your manometer (or balance tool).



Start the bike and warm it up. You can connect your service tool/Guzzidiag while its warming up.

Once its above 60°C you can hold the throttle open so that the engine is revving about 3,500-4,000 RPM and check the balance with your manometer. If the depression is unequal on both sides use the screw on the bell-crank adjuster on the LH TB, (*NOT the linkage rod*) to adjust the balance at that engine speed. I find it easier to close the throttle, make an adjustment, then open the throttle again.



Once it is balanced at 3.5-4.0K, roll off the throttle, and kill the engine.

Open Guzzidiag and connect. Go to the 'Measurements' page and check the TPS setting. If you have had to use the bell crank screw to balance at high speed the chances are the TPS will be out.

The screenshot shows the GuzziDiag V0.39 software interface. The window title is "GuzziDiag V0.39 (c) 2013 by Beard". The interface has a red background and a menu bar with "File", "View", and "Help".

Key measurements displayed in red boxes:

- Throttle: 5.00°
- Air temperature: 16°C
- Engine temperature: 60°C
- RPM: 1197
- Injection period: 2.200ms
- Advance ignition: 4.20°
- CO Trimm: -3
- Air pressure: 1002

ECU information:

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IAW 5AM PF2C
CM227001
IAW5AMHW610
00000000
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Status panel (right side):

- Engine on
- Side stand out
- Clutch released
- Throttle closed
- Gear neutral
- Killswitch inactive
- Start possible
- Tipp over active
- Unknown 1 : 07
- Unknown 2 : 00
- Unknown 3 : 00
- Unknown 4 : 00

Other elements:

- Buttons: "Donate" (yellow), "Not for sale!" (red)
- Logo: "GUZZI Forum .de" with a Santa hat on the "G"
- Footer: "Griso 1200 8V" and "Connected" status.

Choose 'Actors', follow the prompts and do a TPS re-set, then go back to 'Measurements' and the TPS reading should 4.6/4.7/4.8

Re-start your engine and look at the manometer. Whichever side has the highest manifold depression, adjust the air bleed (in/out) on that side to lower it until both sides are running identically.

Disconnect everything and re-install the manifold plugs (or reconnect the charcoal canister tubes).

Job done!