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2011-05-14 22:04:30

[air flow meter adjustment](#)

**Scot Weaver**

Carolina Jaguar Club \*

forum user since

2009-03-25

1986 XJ6, Kitty Hawk N.C.  
 2006 Triumph Bonneville

[air flow meter adjust](#)

2011-05-15 09:07:22

[air flow meter adjustment](#)

**Allen Jaszcari**

Jaguar Society of South  
 Carolina \*

forum user since

2011-01-25



Scot, here is the info from Alldata.

"The air flow meter, Fig. 2, measures the quantity of intake air, and sends a signal to the control unit so the base pulse width can be determined for correct fuel injection.

The air flow meter is provided with a flap in the air passage. As the air flows through the passage, the flap rotates and the angle of rotation is electronically monitored to measure air flow rate. The flap is able to rotate to an angle where an equilibrium can be maintained between the air flow pressure and the return torque of the coil spring. The damper chamber and compensating plate are provided as a damper for the flap so the flap will not be disturbed by pulsation in manifold vacuum during operation. The compensating plate is interlinked with the flap, and as the flap rotates, the compensating plate rotates in the damper chamber providing a small clearance between the chamber wall.

During idling, when the amount of intake air is small, the air flows parallel with the flap through the bypass port so the specified intake air flow can be provided correctly. The bypass port has been factory adjusted, but can be adjusted further, if necessary, by turning the air bypass screw.

The fuel pump relay contact is provided in the potentiometer section of the air flow meter. This contact remains in the ``Off'' position when the flap is not actuated. The relay turns ``On'' when the flap turns 8°, and electric current flows through the fuel pump relay to the fuel pump."

My airflow meter was not sending 12 volts to the fuel pump relay and I had to adjust the airflow meter to cause it to open the flap the required 8 degrees.

Good luck

Al Jaszcari  
 Greenwood, SC  
 84 VDP  
 93 XJS

2011-05-16 12:30:09

[air flow meter adjustment](#)

**Scot Weaver**

Carolina Jaguar Club \*

forum user since

2009-03-25

OK , Al.....is the bypass screw on the air flow meter ? or the extra air valve ? (I'm looking at the fuel injection components in the owners maint. handbook).....Scot

1986 XJ6, Kitty Hawk N.C.

2006 Triumph Bonneville

**Allen Jaszcar**

Jaguar Society of South Carolina \*

forum user since

2011-01-25

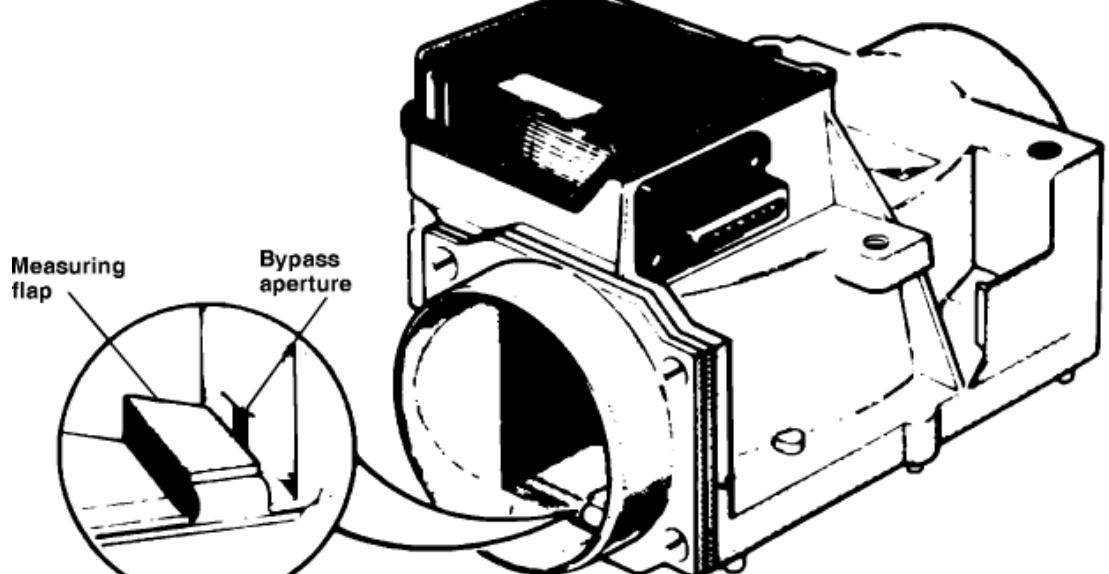
2011-05-16 16:33:38

**air flow meter adjustment**

In the photo attached the adjustment is too the far left corner. The photo shows a black circle. I believe it requires an allen wrench to adjust. Mine was initially adjusted about 9 turns out which was far too rich and I adjusted it all the way in and backed it out about 1 1/2 turns which then created enough bypass air to pull open the flap the required amount to move the micro switch under the sealed plastic cover to close and allow the 12 volts being supplied to one lead on the MAF to the output lead and on to the fuel pump relay activating it.

Hope this helps

Al Jaszcar  
Greenwood, SC  
84 VDP  
93 XJS



2011-05-16 16:34:26

**air flow meter adjustment****Allen Jaszcar**

Jaguar Society of South Carolina \*

forum user since

2011-01-25

Sorry, I meant the far right corner!!!

Al Jaszcar  
Greenwood, SC  
84 VDP  
93 XJS

**2011-05-16 19:34:52****air flow meter adjustment****Scot Weaver**

Carolina Jaguar Club \*

forum user since

2009-03-25

1986 XJ6, Kitty Hawk N.C.

2006 Triumph Bonneville

**2011-05-16 20:09:07****air flow meter adjustment****Doug Dwyer**

Jaguar Car Club of Victoria \*

forum user since

2007-03-28

Lots of "could be" things but experimenting with the mixture won't do any good if any of the above are not right.

Cheers

DD

Doug Dwyer  
Longview Washington USA  
1995 XJR

**2011-05-16 21:22:09****air flow meter adjustment****Allen Jaszcar**

Jaguar Society of South Carolina \*

forum user since

2011-01-25

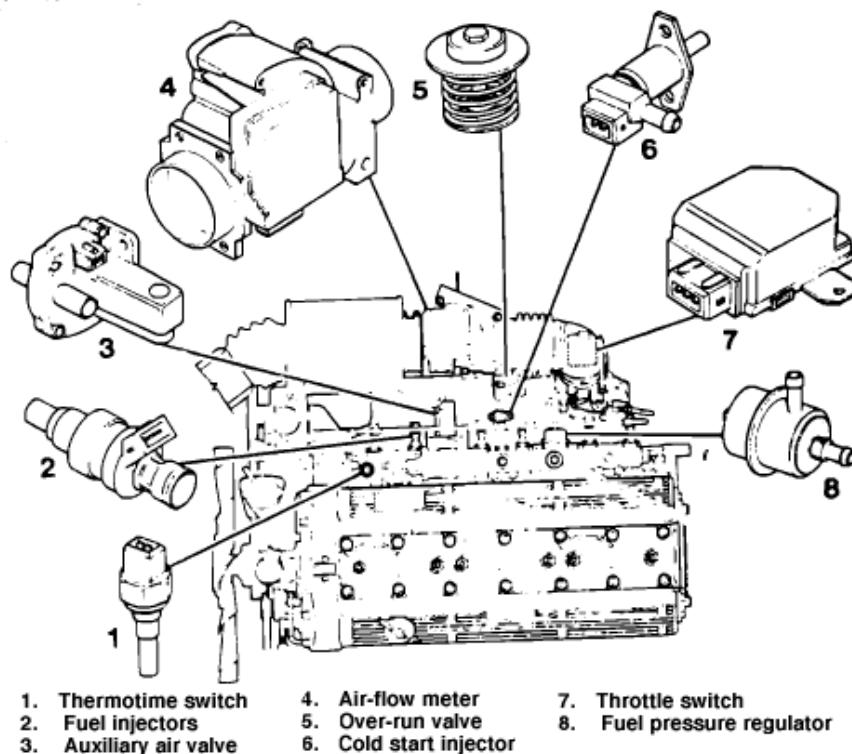
"Ensure that the engine is at normal operating temperature.

1. Check the throttle linkage for correct operation, and that return springs are secure and effective.
2. Start the engine and run for two to three minutes.
3. Set the idle speed adjustment screw on air distribution block to achieve 800 RPM.
4. If it proves impossible to reduce idle speed to specified level proceed with the following:
  - a. Check all pipes and hoses to inlet manifold for security and condition.
  - b. Check security of injectors and cold start injectors.
  - c. Ensure that all joints and inlet manifold to cylinder head fastenings are tight.
  - d. Ensure that throttle butterfly is correctly adjusted.
  - e. Check operation of overrun valve.
- f. If the above does not reduce the idle speed, check operation of auxiliary air valve."



Good luck.

Al Jaszcar  
Greenwood, SC  
84 VDP  
93 XJS



2011-05-16 21:25:14

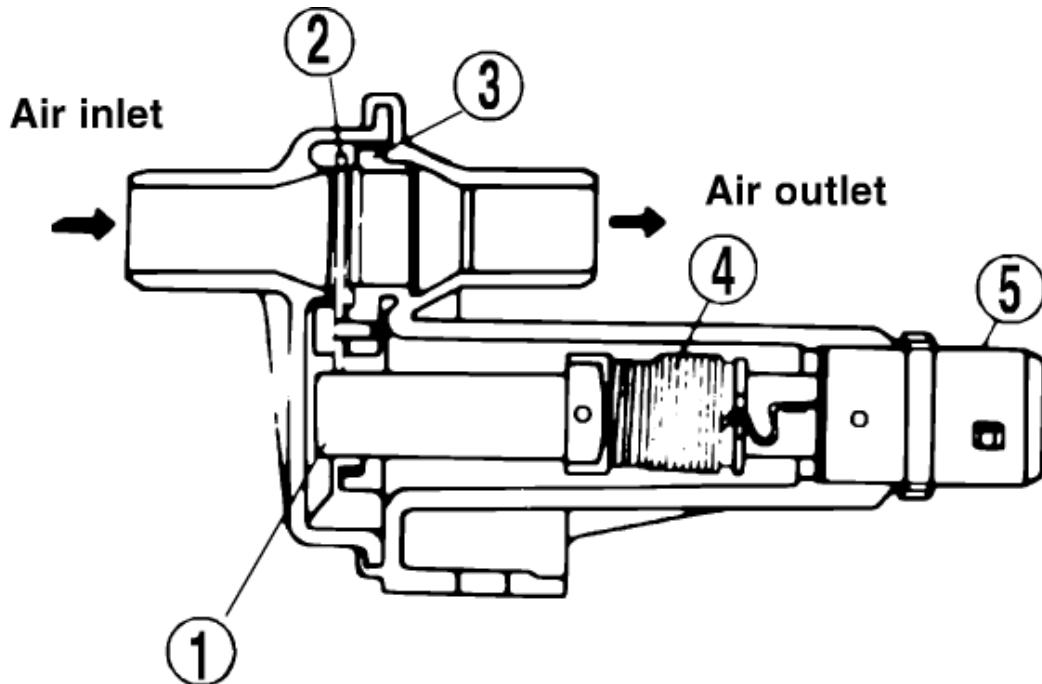
#### air flow meter adjustment

The air distribution block is the auxilliary air valve. See the hole at the end of the air distribution (item #3) block. That is the allen screw location for idle adjustment.

**Allen Jaszcar**  
Jaguar Society of South  
Carolina \*

forum user since  
2011-01-25  
Al Jaszcar  
Greenwood, SC  
84 VDP  
93 XJS





**1 Bimetal**

**2 Shutter**

**3 Sleeve**

2011-05-16 21:31:51

**4 Heater**

**5 Electric terminal**

air flow meter adjustment

**Doug Dwyer**

Jaguar Car Club of Victoria \* No, no! The air distribution block is on the intake manifold a couple inches ahead of the throttle body. Besides having the idle speed screw it doubles as the housing for the over-run valve, item #5 in the pic that shows all the components.

forum user since  
2007-03-28

Cheers  
DD

Doug Dwyer  
Longview Washington USA  
1995 XJR

2011-05-17 12:33:30

air flow meter adjustment

**Scot Weaver**

Carolina Jaguar Club \*

forum user since  
2009-03-25

OK, thanks for all the imfo. I have pretty much done all of those things except cleaning of the parts and check the overrun , and aux. valves and checking injectors. . I set the butterfly to .200 and set the Idle. Since idle screw was so hard to get to I cut a allen wrench tharts the proper size , long enough to stick in the screw and leave it .Enough sticks up so I can now get a swivel socket on it at any time.....thanks again

1986 XJ6, Kitty Hawk N.C.  
2006 Triumph Bonneville

2011-05-17 16:46:56

air flow meter adjustment

**Allen Jaszcar**

Jaguar Society of South

Carolina \*

forum user since

2011-01-25

Scot, did adjusting the idle screw help any?

Al Jaszcar

Greenwood, SC

84 VDP

93 XJS

**2011-05-17 19:41:46****air flow meter adjustment****Doug Dwyer**

Jaguar Car Club of Victoria \*

Cheers

forum user since

2007-03-28

Scot, I hope you mean .002" on the throttle butterfly ! :-)  
DD  
Doug Dwyer  
Longview Washington USA  
1995 XJR**2011-05-17 19:57:12****air flow meter adjustment****Scot Weaver**

Carolina Jaguar Club \*

forum user since

2009-03-25

Yes Al, the idle was to low ,was only about 600 Yeh Doug that was a typo.....All the adjustments have helped , were  
do you guys get the split fire plugs ? ,think Ill put them in , got motorcrafts in there now , looked at Advance auto and  
others , they don't list them. ..... thanks1986 XJ6, Kitty Hawk N.C.  
2006 Triumph Bonneville**2011-05-19 12:02:02****air flow meter adjustment****Allen Jaszcar**

Jaguar Society of South

Carolina \*

forum user since

2011-01-25

I use Bosch Super Platinum....4 electrodes

Al Jaszcar  
Greenwood, SC

84 VDP

93 XJS



**2011-05-22 17:11:26****air flow meter adjustment****Scot Weaver**

Carolina Jaguar Club \*

forum user since

2009-03-25

I was looking at my air flow meter today for the adjustment screw. Is it a Lucas 2 AM (able on top) . Seems to look little different than the one on the pic. Do not see a allen screw. Is there by chance a round metal seal over it ? I see that on top were one of the black circles are in the picture above.

1986 XJ6, Kitty Hawk N.C.

2006 Triumph Bonneville

**2011-05-22 17:50:40****air flow meter adjustment****Doug Dwyer**

Jaguar Car Club of Victoria \*

Cheers

DD

forum user since

2007-03-28

Doug Dwyer  
Longview Washington USA  
1995 XJR

**2011-05-23 20:53:13****air flow meter adjustment****Scot Weaver**

Carolina Jaguar Club \*

forum user since

2009-03-25

OK .... Thanks  
1986 XJ6, Kitty Hawk N.C.  
2006 Triumph Bonneville

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