



HOME - CONTACTS - STANDINGS - CALENDAR - LIBRARY - RALLY - SLALOM - CONCOURS - HPDE
JCNA SHOPPE - CLASSIFIEDS - FORUMS - GALLERY - JAGUAR JOURNAL - CLUB LIST - JOIN A CLUB

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[Help Page](#) - [Login](#)
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Index - Active Threads - Start New Thread

Scot Weaver

Carolina Jaguar Club *

forum user since
2009-03-25

2011-05-14 22:04:30

air flow meter adjustment

Was reading Allen Jaszcar's problem back in the Feb. post's about the air flow meter adjustment solving the problem for his idle. In reading the books , I saw nothing on the adjustment of the meter. The fact that it needs to open 8 deg. and so forth. Any one???

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

air flow meter adjust

Allen Jaszcar

Jaguar Society of South
Carolina *

forum user since
2011-01-25

2011-05-15 09:07:22

air flow meter adjustment

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 Jaszcar
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 ? (I;m looking at the fuel injection componets 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

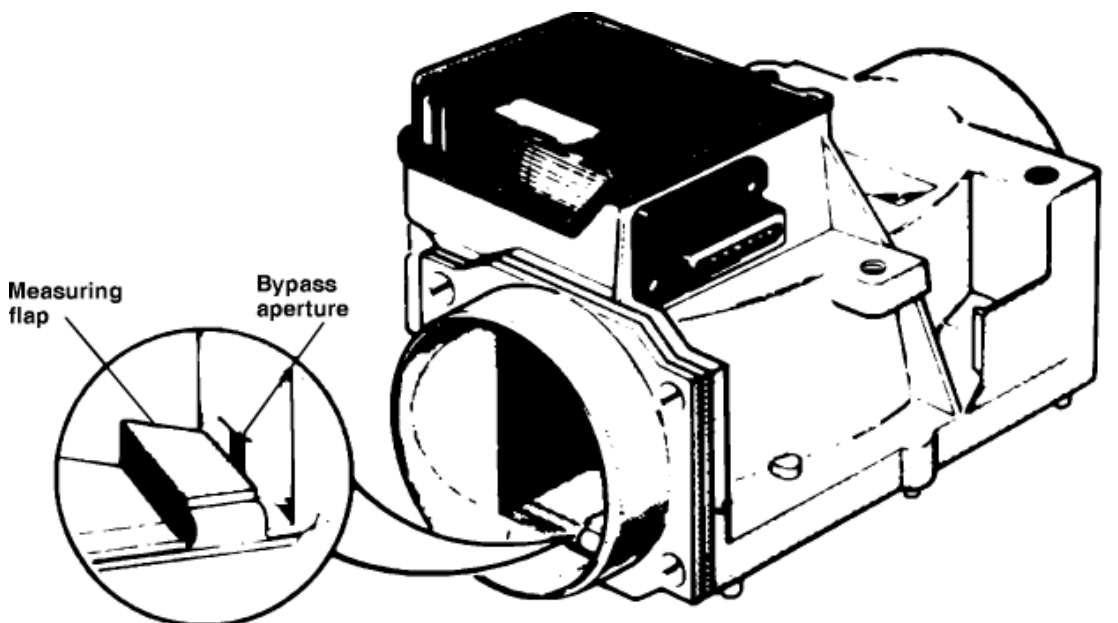
2011-05-16 16:33:38

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

**Scott Weaver**

Carolina Jaguar Club *

forum user since
2009-03-25**2011-05-16 19:34:52****air flow meter adjustment**

Thanks , my engine starts and idles very smooth when its cold , but after it warms up the idle starts to stumble , and has cut off at times if I don't rev it. I had some bad vacume hoses but think I got them all fixed. Thought if this adjustment was boarderlin on my engine the hotter air , or something may be effecting the fuel pump. ??? May be something to check.....

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

Scot, does it sorta seem like the engine just can't keep itself running? What's your idle speed when warm? And, have you set the throttle blade to the proper .002" gap and cleaned the throttle body? Is the ductwork between the air meter and the throttle body in good shape and securely clamped? Last, remove the air distribution block and de-gunk the backsides of it and the clean idle speed screw as well.

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

Also, get ahold of some carb cleaner and spray around the engine while it is running to confirm no vacuum leaks. Also, there is an idle adjustment but it is very hard to get to. It is on the engine side of the MAF and to adjust it you have to remove the MAF. If you do decide to check it back it out about three turns and see if the idle comes up. It should idle between 600 and 750rpm. Here are the procedures and photos:

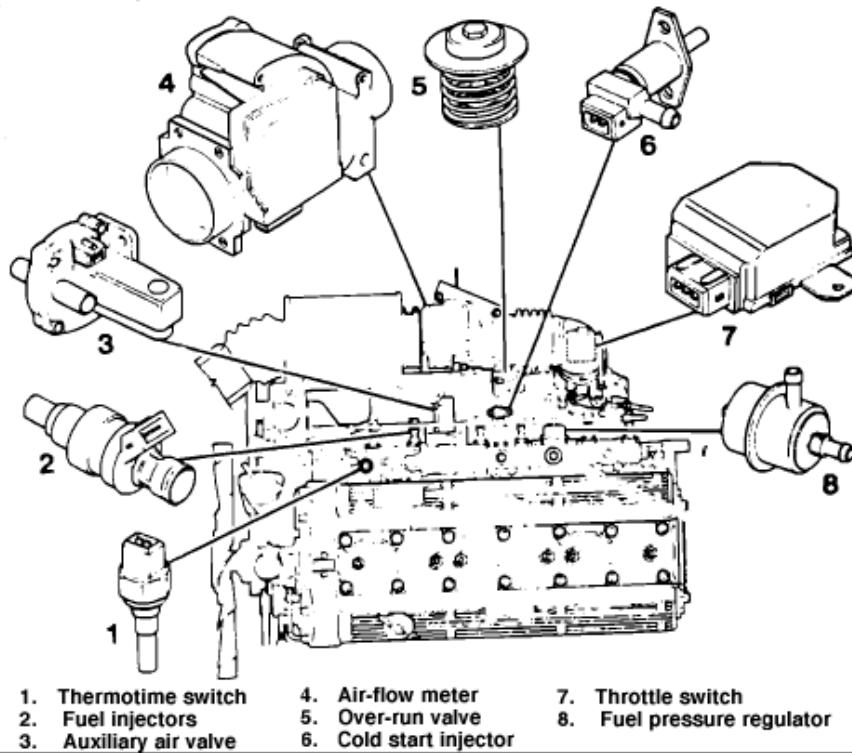
"Ensure that the engine is at normal operating temperature.

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

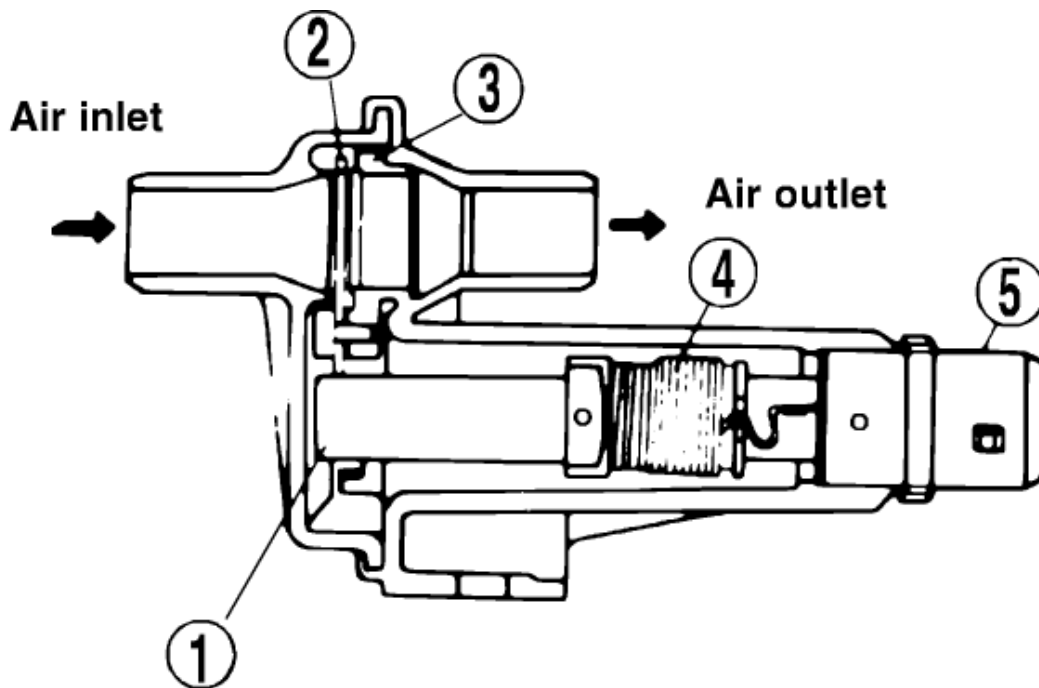
Allen Jaszcar
Jaguar Society of South
Carolina *

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.

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Al Jaszcar
Greenwood, SC
84 VDP
93 XJS





1 Bimetal
2 Shutter
3 Sleeve

4 Heater
5 Electric terminal

2011-05-16 21:31:51

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 *

OK, thanks for all the info. 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 thats 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

forum user since
2009-03-25

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 *

forum user since
2007-03-28

Scot, I hope you mean .002" on the throttle butterfly ! :-)

Cheers
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. thanks

1986 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



Scot Weaver
Carolina Jaguar Club *

forum user since
2009-03-25

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

I was looking at my air flow meter today for the adjustment screw. I is a Lucas 2 AM (lable 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

Doug Dwyer
Jaguar Car Club of Victoria *

forum user since
2007-03-28

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

That's it ! Under the metal plug.

Cheers
DD

Doug Dwyer
Longview Washington USA
1995 XJR

Scot Weaver
Carolina Jaguar Club *

forum user since
2009-03-25

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

OK Thanks

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