

AFM problem ?

Posted by Kerry Chadderton - 10 Nov 2014 15:33

1984 N/A, stock engine, catless with Flowmaster muffler: DE car

I'm running into a weird and hard to duplicate problem. Earlier this year I upgraded to the '86 DME & AFM and added a 4° advance cam key. Engine feels great and I like the smoother idle and improved lower end torque.

I tested the AFM prior to installing using the Clarks garage and The944.com procedures. Bench performance was spotless.

In August on the way to a DE I noticed that during long highway driving at steady throttle the engine would occasionally bog and the AFR would go into the 17 to 18:1 range. WOT throttle would clear this up instantly and it would last for anywhere from 20 minutes to several hours. I cleaned the AFM connector and had no more trouble during the DE, nor the ride home.

This Friday I had another DE. I had the bog & AFR problem one time during the 3 hour trip there. I cleaned the AFM connector again but it was spotless anyway. During my first two sessions the car seemed okay but lap times were 2-3 seconds off. Then I started to pay attention the AFR. At idle the AFR would slowly work its way from 14.6 to 17.1. Snap the throttle and the process would repeat. On track WOT AFR readings varied from 13.1 to 10.8. This was worst on the last session of the day. The power was flat and the car slow.

During the 3 hour trip home the bog came a couple of times but the car is very drivable and reliable otherwise.

Before I spend hours chasing gremlins, have any of you experienced these symptoms?

=====

Re: AFM problem ?

Posted by BritRacer - 12 Nov 2014 11:45

Here is a video with the sound of the engine when this happens. You can hear it particularly between 3a and 3b as well as out of the carousel. The video will appear once vimeo is done processing it.

Thanks

=====

Re: AFM problem ?

Posted by Kerry Chadderton - 12 Nov 2014 12:50

Jason, yours really sounds like an ignition issue to me. OR a bad electrical connection in the fuel pump circuit.

Mine issue had no "miss", just flat power. Too rich on throttle. Too lean at idle.

=====

Re: AFM problem ?

Posted by BritRacer - 12 Nov 2014 12:54

Thats we ours thoughts were at the track and we did find a few issues, but none of them resolved it. Going to start the investigation again in a week or so.

Thanks for watching.

=====