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This illustration is provided by Rick @ [www.jaguarforums.com](http://www.jaguarforums.com)

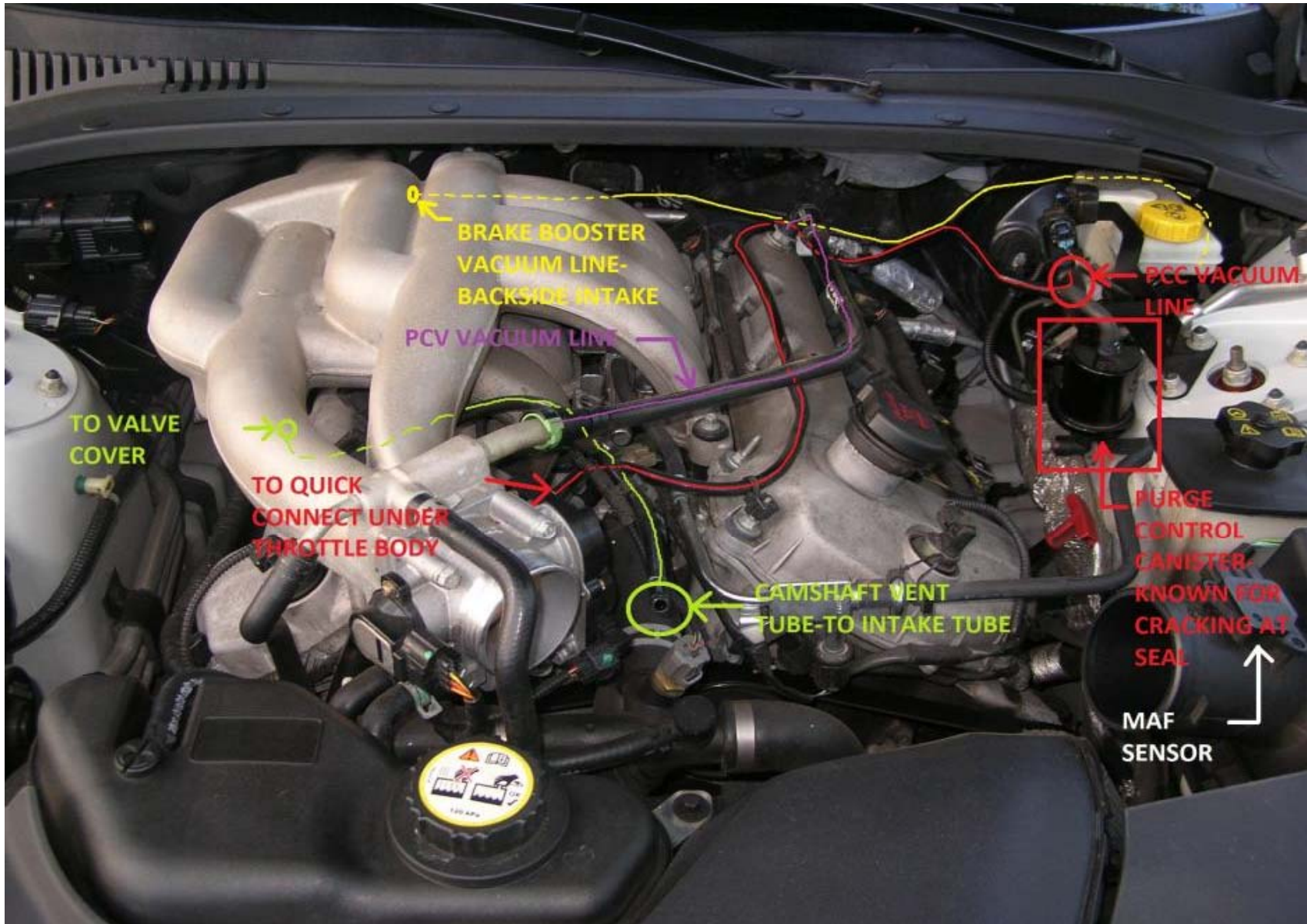
In an effort to aid in the infamous P0171 and P0174 codes that lead to a lean running condition, I have color coded all vacuum lines.

I believe that the following pictures will go from MY (**Model Year**) 2003 on up. There seems to be some confusion with 2 vacuum elbows located **under** the lower intake manifold. I believe these 2 elbows are on MY 2002 and older, these are a known failure.

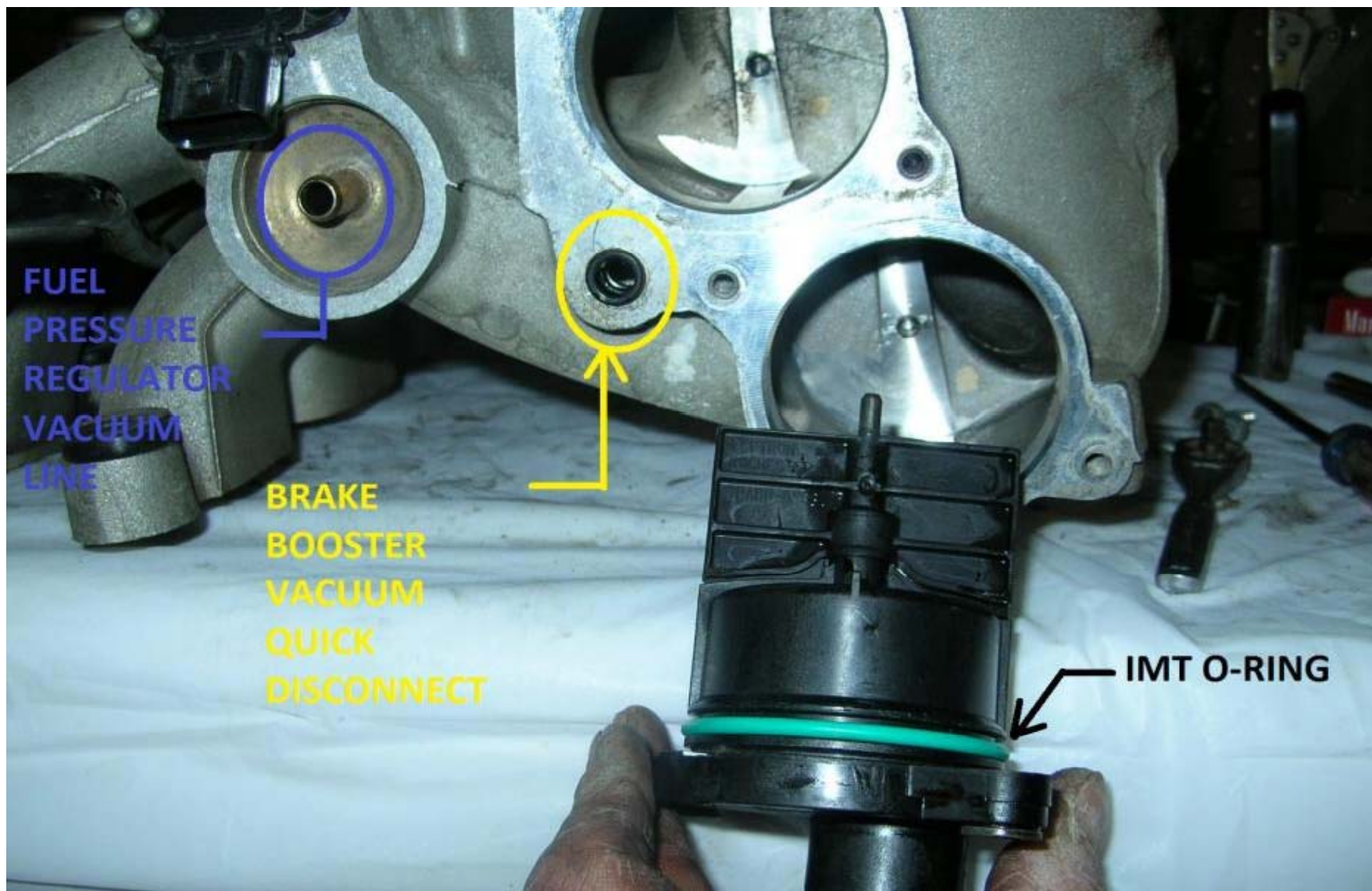
To check for vacuum leaks use either carb cleaner or water in a misting bottle. Remove the plastic engine cover to access all lines. Run [vehicle](#) and liberally spray down vacuum lines one at a time, if the engine revs up, time for further inspection. Included as well are MAF Sensor location and IMT O-Rings. The above is the first place to start in hunting down the P0171 and P0174 codes.

This link will aid in diagnosing if the IMT O-Rings are bad: This information was added to this procedure.

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In above picture, the Fuel Pressure Regulator Vacuum Line is just a short 90 degree elbow. No visible picture able to be taken.

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Here is a simple check of the IMT O-Rings on a 2005 3.0. Note different years have different locations.



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1) Simply fold a clean paper towel in quarter

2) Wipe the lower portions of the IMTs (tuning valve), if oil is present on paper towel, your IMT O-Rings need to be replaced.

