

## **The Fixit Files:**

### **Samurai (SJ 413) Diagnosing Mechanical Fuel Pump**

#### **Problems**

(10-16-02 JAC)

To check the fuel pump, locate it on the rear end of the head on the passenger side. There are a number of tubes coming out of it. One points down and has no hose connected to it. This tube provides an air vent to the backside of the pump diaphragm. If the diaphragm is ruptured, this tube will be damp with gasoline after you run the engine for a while.

Another indication of a broken fuel pump is progressively louder engine noises as it is driven at any speed. Thinning of the oil with gasoline from the pump causes increased engine noise. Naturally, oil thinned out by gasoline is a VERY BAD thing.

The final indication of a broken fuel pump is found when you check the oil level. The oil will be noticeably thinner and there will appear to be more of it!

(source: <http://neh-tech.com>)