

- Author: Jesse Zacarias
- Subject: Intermittent failure to upshift
- Unit: 722.6
- Vehicle Application: 1998 Mercedes M320

| Essential Reading |
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| $\square$ Rebuilder |
| $\square$ Shop Owner |
| $\square$ Center Manager |
| $\square$ Diagnostician |
| $\square$ R\&R |

## Are We Listening?

Iheard a report recently on NPR (National Public Radio) that said, "Doctors are not good listeners; that is why a lot of unnecessary tests are done."

When I heard that I said to myself, "That is true in our field too." If we don't listen well to the patient we may misdiagnose. Let me tell you about something that happened to me just recently that emphasizes this point. We had a customer sent to us by a local gen-eral-repair shop. He was a student here for the winter break visiting his family and was about to leave when he started to have transmission problems on his 1998 Mercedes M320.

When we asked what the problem was he simply said, "It won't upshift at times."

It was the first week of January and he needed the car to return to school by the following week. In short (no pun intended) he was short on time and cash.

When we talked with the patient (vehicle) this is what he said (see codes in Figure 1).

Now we heard "code 014" and thought of bad N2 and N3 speed sensors. We checked the TCM for signs of fluid contamination, since it is a common problem and in the Mercedes M Class the TCM is easily accessible. We found no signs of fluid contamination on the TCM, so we recommended replacement of the speed sensors, which are part of the circuit board; besides, the circuit board should always be replaced on models built before 2003.

After replacing the circuit board, circuit-board case connector, filter and fluid, we cleared the codes and drove the car for a long time. We did not want this

(Please ignore the time; clock not set correctly)

customer to have problems driving out of state. The vehicle performed great, so we released it to the customer. Within a couple of hours he returned. We have all had that awful gut feeling when a car returns that soon. Again we talked with the patient, and this is what he said (see codes in Figure 2)
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