## June 15, 2010 • Page 10

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# Why Did Car's Wheel Break Off?

## BY TOM AND RAY MAGLIOZZI

Dear Tom and Ray: Two weeks ago while traveling down a city street, my car, a Volvo S80, suddenly swerved and almost flew into a lamppost. A man driving behind me said he saw the right front wheel come off just before the car swerved. If he had not seen the wheel fall off, I would not have known what had happened. My insurance has covered everything, as the car was a total loss, but neither the insurance company nor the Volvo shop where it was towed could give any explanation for this accident. Fortunately, no one was on the

be hit by the wheel. Nonetheless, I am very disturbed not to know what caused this. Have you any ideas or explanations? Thank you. – Judy

RAY: I can't say for sure what happened, Judy, but my guess would have to be that your wheel bolts broke off

TOM: Volvo uses wheel bolts instead of lug nuts to hold the wheels on. On most cars, if you take a wheel off, the wheel bolts are sticking out at you. They're permanently attached to the wheel hubs. RAY: But on Volvos (and

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Volkswagens and Audis), you have to stick the bolts IN through the wheel. So you hold the wheel in place, stick each bolt through a sidewalk or in the street to



RAY: Whenever we have more than one wheel bolt break on a car, we replace all 20 of them. We don't even give the customer a choice. We figure if two of them were overtightened and are ready to break, they probably all were overtightened and are ready to break

TOM: And in your situation, you might have had one that broke without your knowing it. Then you had four doing the job of

RAY: That increased the stress on the remaining four, and soon another one gave way. Then you had three doing the job of five. TOM: And you never would notice this until the last bolt or two can't hold

on anymore, and the wheel falls off. RAY: This is something

that you hope your regular repair shop would catch in advance when it does

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things like inspect your brakes and rotate your tires. But that didn't happen in your case. Maybe your shop doesn't subscribe to our bolt-replacement theory? Maybe you haven't been in for service regularly enough? Maybe they're the ones doing the overtightening? Or maybe it was just bad luck and the whole episode took place between service visits? TOM: In any case, that's our guess as to what happened. And we're just glad vou didn't get hurt. RÁY: I know if that had happened to me, I would have had to ask my insur-

ance company to cover my dry-cleaning bill, too!

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