

# UNDER THE HOOD

## WITH THE MOTOR MEDICS

Dear Motor Medics,

I live in Nebraska and I have a 2000 Ford Ranger with a 4.0 engine, automatic transmission, and 4 wheel drive. I am writing you because I listen to Under The Hood each week and trust your advice. I have been to two shops with my problem and would like to get a possible answer from you before I choose one of them. They both gave me different opinions of what could be wrong and they both require replacing major parts. One said the front differential was probably bad, and the other said it was probably a bad transfer case. I am not in the position to spend money that is not needed chasing the problem so I would like to choose a shop after hearing your thoughts on the subject. My problem is as follows: when the vehicle is in 4 wheel drive high or low range on dry ground it will travel about 50 yards and then I will hear a loud bang and the truck will jump forward. Just before the bang it feels like the brakes are starting to be applied. It travels the same distance

before the bang in both 4 high and 4 low. When on ice and snow or in two wheel drive it will not occur. I enjoy listening to Under The Hood and hearing all of the different car problems and your repair advice. Thank you in advance for the advice.

Dan Bennet, Valentine, Nebraska

Dan, thank you for listening to Under The Hood. I think I may know what is happening to your Ranger. When a four wheel drive is locked in to 4 high or low the front and rear wheels turn together at an equal speed. If there is any difference in tire size from front to rear you will have what is termed as drive-line wrap-up. The tires could be the same size as read on the sidewall but if they are different brands they could be up to 1/4 inch different in height. Another problem would be a new set of tires on one axle and a much worn set on the other. This actually drags one end until the tires slip with a bang. The transfer case chain could also be slipping because of this also. Check the size before doing any-

thing else.

Thank you for the email, Take Care, Russ.

Dear Motor Medics,

I have a 2003 Chevy truck with a Duramax Diesel engine and an Allison automatic transmission. My question has to do with diesel fuel. I use anti-gel additive in the winter and am wondering if I have to use number one with the anti-gel when it is very cold or if I can continue to use number two. I can't always listen to the show during the week so I subscribe to your i-tunes podcast so I can hear all the shows.

Thanks for all you do,  
Scott Richmond, Sioux Falls.

Thank you for the question Scott. In my own truck I use only number two diesel and Justice Brother's anti-gel to prevent gel-up and lubricate the pump and injectors.

Take care, Russ.

If you have a car question or want to read past Motor Market Emails or advice columns visit our all new Under The Hood® Show website at [www.underthehoodshow.com](http://www.underthehoodshow.com) you can also post questions to our facebook page found on the Under The Hood® website or you can email them to [Help@underthehoodshow.com](mailto:Help@underthehoodshow.com) We will respond to your email quickly and may print it in The Motor Market. Listen to Under the Hood on KELO am 1320 Thursdays at 10:00 and Sundays at 5:00 or on a station near you. We can also be found on the internet at [www.underthehoodshow.com](http://www.underthehoodshow.com).

*Advice given by the Motor Medics is for use as a guide to repair. Always check with your favorite repair shop for verification. The motor medics have been operating a repair shop and answering questions on the air for 19 years. Russ is an ASE Master Certified Technician with extensive dealer and aftermarket training. Shannon is an ASE Certified Parts Specialist with more than 30 years in the automotive world. You can ask a question of The Motor Medics by going to [help@underthehoodshow.com](http://help@underthehoodshow.com) we will answer your question on line and you may see it appear in this publication. The Under The Hood Show can be heard each week on local stations with coverage reaching seven states and on [www.underthehoodshow.com](http://www.underthehoodshow.com). Go to [Underthehoodshow.com](http://Underthehoodshow.com) to find one near you. <sup>TM</sup>*

