

Eiswerth, Eric (E.E.)

Jeff 8/18/06

From: Eiswerth, Eric (E.E.)
Sent: Wednesday, August 09, 2006 9:53 AM
To: Scott Yon (scott.yon@nhtsa.dot.gov)
Cc: Ott, David (D.J.)
Subject: EA04-034 Request

Scott, this is a follow-up to our email communication from Dave Ott on 7/20/06 and provides responses to your questions below:

1) ABS Cycle Time - Please advise the maximum (fastest) cycle time (i.e., the time to modulate the brake system hydraulic pressure from a maximum to minimum level during ABS system operation) of the ABS system for each MY subject vehicle.

A file containing ABS test data for the subject vehicle is included on a CD mailed to your office today. There were no significant changes to the ABS system from 2003 through 2005 model year. The file contains master cylinder pressure (driver input), pressure measured at each brake, wheel velocity measured at each wheel, reference velocity calculated using each of the wheel velocities, vehicle deceleration and distance traveled during a typical 100 kph stopping distance test. The system continuously compares the velocity of each wheel during braking to the reference velocity (Vref). If the velocity of a wheel deviates from Vref (indicating that slip is occurring between the tire and road surface), the brake pressure at that wheel is reduced until the wheel velocity again approaches Vref. Brake pressure for the wheel is then increased until the amount of slip again surpasses a predetermined threshold, and the cycle is repeated. The typical time interval between instances of maximum slip (corresponding to minimum pressure) is approximately 400 msec for front wheels and 300 msec for the rear.

2) Northville warranty parts return analysis - The CD mailed to your office today includes the completed spreadsheet with warranty return data and wheel maps for each of the CF and 4W73-AA wheels reviewed.

The DHL shipping number for the CD is 17341683752 (DHL site <http://track.dhl-usa.com/>).

Please let me know if you have any questions.

Regards,

Eric Eiswerth
Ford Automotive Safety Office
eeiswert@ford.com
(313)390-5129

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