

From: Christopher Tinto/=WDC/Toyota_NY.

Sent:9/12/2007 10:19 AM.

To: [-] George Morino/=TMS/Toyota@TOYOTA.

Cc: [-] csantucci@tma.toyota.com;Michiteru Kato/=HINPO/TMC0@TMC0;raul_guzman@toyota.com.

Bcc: [-] .

Subject: Re: OEM AWFM Testing for other Manufactures and Push Button Logic

No apology necessary - thanks for clarifying...

Best Regards,
Chris

Chris Tinto

Vice President, Technical and Regulatory Affairs, Safety
Toyota Motor North America, Inc.
601 13th St. NW
Suite 910 South
Washington, DC 20005
Phone (202) 463-6824
NEW CELL NUMBER - (202) 412-7822
email: Chris_Tinto@tma.toyota.com

George Morino/TMS/Toyota@TOYOTA

09/12/2007 11:49 AM

To Christopher Tinto/WDC/Toyota_NY@TOYOTA_NY

cc csantucci@tma.toyota.com, Michiteru Kato/HINPO/TMC0@TMC0, raul_guzman@toyota.com

Subject Re: OEM AWFM Testing for other Manufactures and Push Button Logic

Sorry Chris:

Our mistake (copy and paste error). Our folks were getting a little ragged last night putting this together. They are re-reviewing this now with fresh eyes and looking for any other errors. Raul will resend a corrected version shortly.

George Morino
National Manager
Quality Compliance Department
Product Quality and Service Support
Toyota Motor Sales, U.S.A., Inc.
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Christopher Tinto/WDC/Toyota_NY@TOYOTA_NY
09/12/2007 04:35 AM
To George Morino
cc chris santucci, Michiteru Kato/HINPO/TMC0@TMC0@TMCE@TOYOTA
Subject Re: OEM AWFM Testing for other Manufactures and Push Button Logic

George - this says the ES button can be pushed 3 times repeatedly to stop the engine. This is new to me - so, can you confirm by reply that this is the case? If so, we have the same function as most other OEMs.

Also - what is the 'take away' from this document? Are we saying that our mats are more likely top jam, however the push button start is just like the others?

Best Regards,
Chris

Chris Tinto

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Raul Guzman/TMS/Toyota@TOYOTA
09/12/2007 02:20 AM
To Michiteru Kato/HINPO/TMC0@TMC0
cc George Morino/TMS/Toyota@Toyota, Kirk Forsht/TMS/Toyota@Toyota, David Stovall/TMS/Toyota@Toyota, Chris Santucci/WDC/Toyota_NY@Toyota_NY, Takezo Oba/HINPO/TMC0@TMC0, Christopher Tinto/WDC/Toyota_NY@Toyota_NY, Wayne Hutchinson/TMS/Toyota@Toyota, David Montelongo/TMS/Toyota@Toyota, Mark Kubota/TMS/Toyota@Toyota, Richard Jung/TMS/Toyota@Toyota
Subject OEM AWFM Testing for other Manufactures and Push Button Logic

Kato-san,

Floor Mat Testing

The following test are of OEM All Weather Floor Mats installed on vehicles from the following manufactures:

BMW

Honda

Infiniti

We also have acquired an Audi vehicle which we tested with the OEM Carpeted Floor Mat. We will re-test this vehicle with the OEM all weather floor mat on 09/12/07 when the all weather floor mats are delivered to TMS.

These tests were conducted to illustrate the likelihood of OEM floor mats (both Carpeted and All Weather) trapping

the accelerator pedal on vehicles from other manufactures.

PLEASE NOTE THAT THERE MAY BE OTHER METHODS TO WEDGE THE ACCELERATOR PEDAL. These methods are the ones we could come up with in the very short time provided.

Push Button Logic

We have also included an Excel document comparing different manufacture's logic for push button start.

Test Vehicle: 2006 BMW 325i (identical to 2007 MY)

Test All Weather Floor Mat: BMW OEM All Weather Floor Mat

OEM All Weather Floor Mat installed correctly.

[attachment "BMW Mat Installed Correctly.jpg" deleted by George Morino/TMS/Toyota]

We were unable to cause the All Weather Floor Mat to "trap" the accelerator pedal in any accelerating position.

[attachment "Pedal Layout with AWFM.jpg" deleted by George Morino/TMS/Toyota]

BMW does not provide customers with clips pre-installed on the vehicle's floor pan. The clips are provided with the purchase of OEM All Weather Floor Mats. The customer must install the clips themselves, this allows for the All Weather Floor Mats to be installed in many different positions.

[attachment "BMW Clip.jpg" deleted by George Morino/TMS/Toyota] [attachment "Bottom of Clip.jpg" deleted by George Morino/TMS/Toyota] [attachment "Clips Installed.jpg" deleted by George Morino/TMS/Toyota]

BMW does not have any warning on the All weather floor mat, the packaging or the clip regarding the placement of the All Weather Floor Mat on top of the carpeted Floor Mat or the possibility of the All Weather Floor Mat interfering with the operation of the pedals.

Test Vehicle: 2007 Infiniti G35

Test All Weather Floor Mat: Infiniti OEM All Weather Floor Mat

OEM All Weather Floor Mat installed correctly.

[attachment "Infiniti Mat Installed correctly.jpg" deleted by George Morino/TMS/Toyota]

Infiniti All Weather Floor Mat improperly installed on a 2007 Infiniti G35. In order to get the accelerator pedal to "stick" in the accelerating position, the AWFM must wedged in a groove in the steering column and wedged between the accelerator pedal and the transmission tunnel.

[attachment "Infiniti Mat installed incorrectly.jpg" deleted by George Morino/TMS/Toyota] [attachment "Steering column groove.jpg" deleted by George Morino/TMS/Toyota] [attachment "Steering Column and Mat.jpg" deleted by George Morino/TMS/Toyota] [attachment "Pedal and Transmission Tunnel.jpg" deleted by George Morino/TMS/Toyota]

Test Vehicle: 2007 Honda Odyssey

Test All Weather Floor Mat: Honda OEM All Weather Floor Mat

OEM All Weather Floor Mat installed correctly.

[attachment "Honda Mat installed correctly.jpg" deleted by George Morino/TMS/Toyota]

Honda All Weather Floor Mat improperly installed on a 2007 Honda Odyssey. In order to get the accelerator pedal to "stick" in the accelerating position, the AWFM must be wedged between the accelerator pedal and the transmission tunnel.

[attachment "Honda Mat installed incorrectly.jpg" deleted by George Morino/TMS/Toyota] [attachment "Accelerator pedal trapped.jpg" deleted by George Morino/TMS/Toyota] [attachment "Overhead view of pedal.jpg" deleted by George Morino/TMS/Toyota] [attachment "Rear view of pedal.jpg" deleted by George Morino/TMS/Toyota]

Test Vehicle: 2007 Audi A8L

Test All Weather Floor Mat: Audi OEM Carpeted Floor Mat

OEM Carpeted Floor Mat installed correctly.

[attachment "Audi Carpeted Mat installed correctly.jpg" deleted by George Morino/TMS/Toyota]

Audi Carpeted Floor Mat improperly installed on a 2007 Audi A8L. In order to get the accelerator pedal to "stick" in the accelerating position, the Carpeted Floor Mat must be wedged between the accelerator pedal and the transmission tunnel.

[attachment "Audi Mat installed incorrectly.jpg" deleted by George Morino/TMS/Toyota] [attachment "Mat wedged between Pedal and Transmission Tunnel.jpg" deleted by George Morino/TMS/Toyota] [attachment "Rear view of Pedal.jpg" deleted by George Morino/TMS/Toyota]

Push Button Logic:

The following Excel document contains a comparison of push button logic for the following manufactures:

Audi

BMW

Infiniti

Lexus

[attachment "Competitor Push Button Logic.xls" deleted by George Morino/TMS/Toyota]

Please feel free to contact myself or anyone else in the Quality Compliance department if you have any questions or concerns.

Regards,

Raul Guzman

Quality Compliance

Product Quality & Service Support

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