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Confidential

Final quality overhaul of 180L before transition to mass production

Items targeted for more in-depth investigation in the electronics field (No.1)

A communication fail-safe overhaul for 180L will be conducted to prevent recurrence of the problem that occurred with 250L: sudden unintended acceleration due to wrong judgment made by the full speed range Adaptive Cruise Control (ACC) System when there is an abnormality with the accelerator pedal position sensor (*1).

Comment [M1]: I added these words based on my understanding of the context.

※Only the CAN communication ECU is to be inspected. Make sure to take action from the receiving side.

【Step 1】 On the receiving side, identify and extract data that may lead to malfunction or wrong dialogue.

【Step 2】 Check the extracted data with the data master sheet.

【Step 3】 Check with the sending side in the case of data that may have cause for worry from the following viewpoints.

- The contents are unclear.
- Fail-safe values are not provided. (Please take into account transient phases such as during detection of abnormality or during temporary abnormal conditions.)

<image001.gif> *1 A detailed explanation of the state referred to as “sudden unintended acceleration due to wrong judgment made by the full speed range Adaptive Cruise Control (ACC) System when there is an abnormality with an accelerator pedal position sensor” is provided below.

Comment [GC2]: I added these words based on my understanding of the context.

The specification of the engine ECU (the sending side) is set as follows: when there is an abnormality with the accelerator pedal position sensor, idling is turned off (a state in

which the accelerator pedal is **not pressed on** (Toku). However, the ACC ECU (the receiving side) wrongly interprets this as idling is turned on (a state in which the accelerator is **not pressed on**) (Kan). Therefore, when there is an abnormality with the accelerator pedal position sensor, the ACC ECU makes a wrong judgment that the accelerator is **pressed on**, the brake is released and the car starts.

<image002.gif>

<image003.gif>

Comment [GC3]: The intended meaning of this kanji (Chinese) character is not clear as there are no clues in the context.

Comment [GC4]: I think there is an error in this part of the text. Logically speaking, it should be "pressed on" considering the contextual consistency with the preceding and following sentences (parts highlighted in green).

Comment [M5]: The intended meaning of this kanji (Chinese) character is not clear as there are no clues in the context.

< Inspection results >

Please create an inspection sheet on the receiving side.

1 . Name of ECU ()

<image004.gif> 2 . Step1 Is there any applicable communication data? Yes

/ No Inspection completed

3 . Step2, Step3

No	Data name	Sending ECU	Inspection results (If there is any problem, describe countermeasures and when they will be taken.	Judgment
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