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Symptom/Vehicle Issue: Trailer Detection For Heavy Duty Truck - Blind Spot And Trailer Merge Assist

Discussion:

MY20+ DJ/D2 trucks equipped with blind spot sensors will also have the trailer merge assist feature. The MY20+ DJ/D2 trailer merge assist feature is able to detect a trailer by two different means:

1. Auto-Trailer Detection. Similar to MY19+ DT trucks, the MY20+ DJ/D2 will perform auto-trailer detection. The system will look for a new trailer after every key-cycle within the first 90 seconds of driving. There may be some occasions where the system falsely detects a trailer (the system detects a trailer where there is none). This could occur within the first 90 seconds of driving if another vehicle is following closely behind the truck mimicking a trailer. When this occurs, the driver will see the same feedback on the instrument cluster as if a trailer were present. The system will provide a pop-up and chime accompanied by an amber colored indicator showing a trailer and possibly a measured length. The blind spot zone will be extended causing the driver to experience a longer blind spot alert zone than normal. The system can be reset by A) cycling the key or B) disabling and then re-enabling the blind spot system within the customer selectable menu while the vehicle is at standstill.

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2. Trailer Detection via Integrated Trailer Brake Control Module (ITBM). The MY20+ DJ/D2 trucks can also detect a trailer by using information provided by the ITBM. When the ITBM detects a trailer with a trailer-brake connected via the 7-pin connector, the trailer merge assist feature will provide a trailer-type selection menu in the instrument cluster. The driver will need to select the appropriate trailer type for the trailer merge assist feature to function. The menu options are A) Compatible or B) Gooseneck / 5th Wheel.

- Compatible trailers are standard "tag-a-long" or "bumper pull" trailers. When Compatible trailer-type is selected, the trailer merge assist system will work as normal.

- Gooseneck and 5th wheel trailers are incompatible. When Gooseneck / 5th Wheel trailer-type is selected, the blind spot / trailer merge assist feature will be disabled. The driver will only need to make this selection once until the trailer is removed. The system will remember the trailer-type selection through key cycles. The system will reset once the trailer is removed.

Note: The ITBM may lose detection of the trailer if the trailer connection and/or wiring is intermittent. If this occurs, the driver may see the trailer-type selection menu appear again while driving or at unexpected times. If this occurs, inspect for electrical issues such as wiring damage, pin fits, trailer component failures.

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