Oshkosh Next Generation Delivery Vehicle (NGDV) Telematics Overview

July 20th, 2023

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Device Usage

- The Telematics Control Unit is an electronic control module that is integrated into the NGDV controller area network (CAN). Data transmitted over the CAN will come to a collection point or central gateway where the TCU can collect signals and messages broadcasted over the network. The TCU transmits collected data over cellular communication to a data broker or end point. After the data has been received by the data broker the TCU clears the transmitted data from its memory and continues to collect and send new data while the vehicle is operational.

- Example use cases/data

    - GPS location

    - Trip data (time, distance, fuel, etc.)

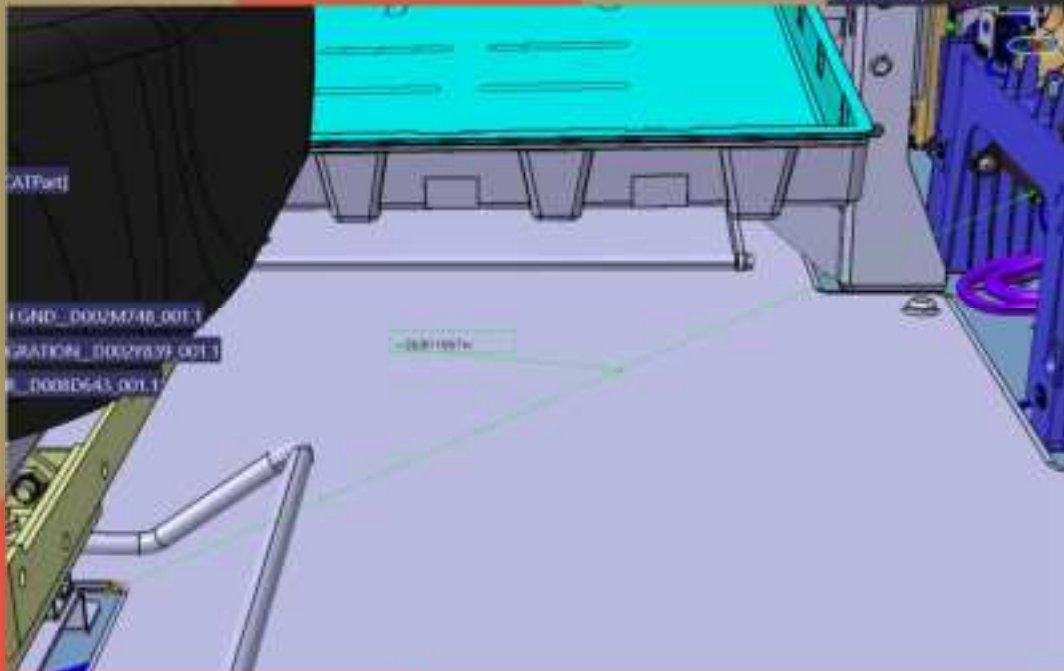   - Accelerometer/gyroscope data

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TCU Install Location
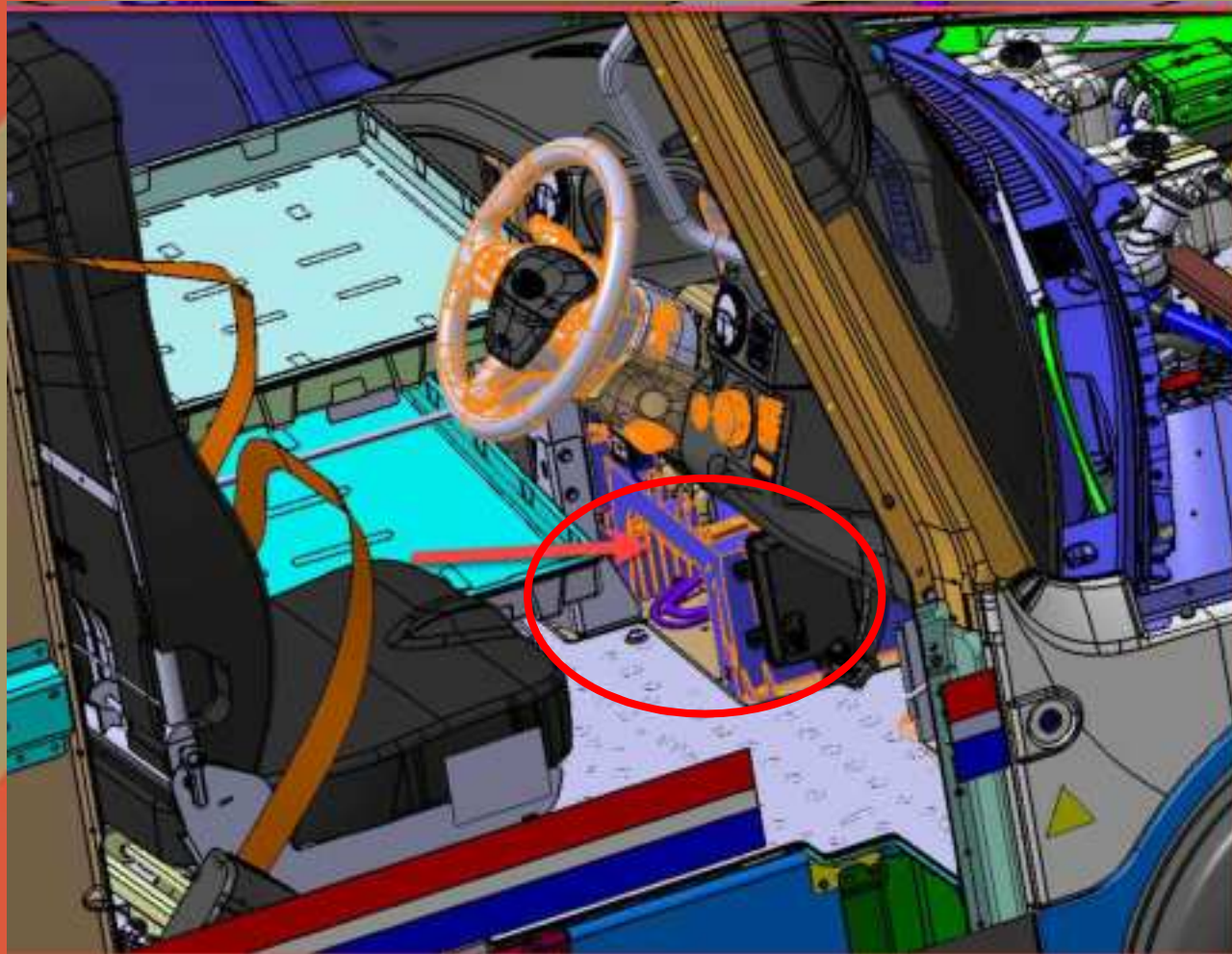
The TCU is mounted in a module box which is installed at the bottom of the center console of the vehicle.

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TCU Distance to Driver

The as-modeled seat is the most

forward position that meets the 5-95th

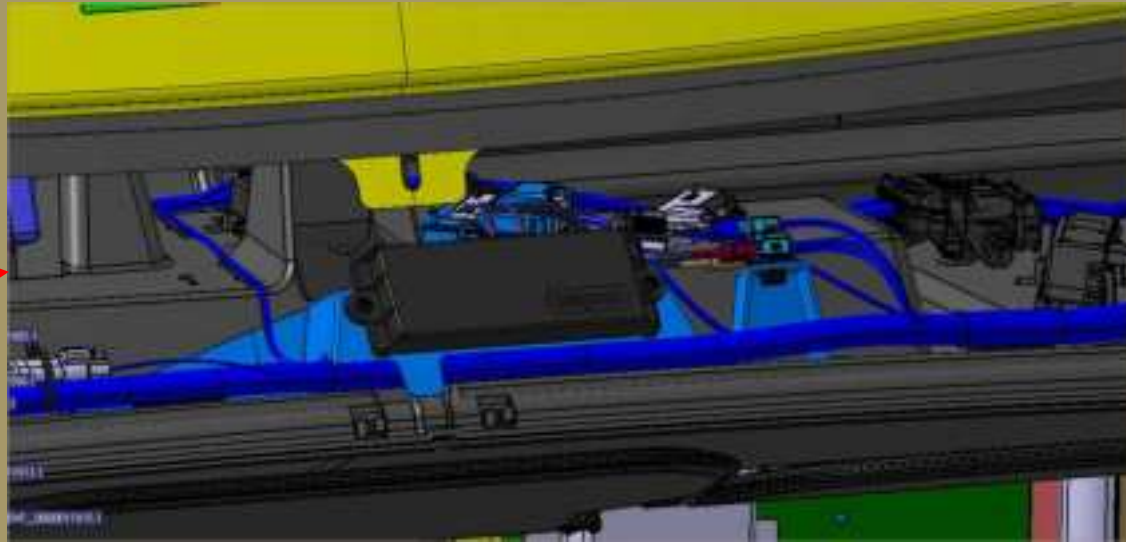percentile of all operators.

22.25in from the seat edge to TCU

22.8in from the seat base to TCU

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Antenna Install Location

The antenna is mounted inside the center of the overhead console.

Cable length: 159 inches (4033 mm) TCU to back of the Antenna.

- This is comprised of 1 harness segment from TCU to in-line connector of approximately 30in

- Plus 1 harness segment of in-line connector to Antenna of approximately 121in

- Plus about 8in for the antenna pigtail.

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Regulatory Compliance statement

Radiofrequency radiation exposure Information:

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 [*] cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

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