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Activity – Telematics Control Module

INSTRUCTION
Answer the Telematics Control Module questions below. Resources required: SDD, Student Guide and Electrical Guide. TIME: 45 Minutes

INSTRUCTION
Questions 1 – 3 require SDD / Datalogger. Use the search feature to assist, signals will be in section 415:00 Entertainment systems.

QUESTION 1

Define the TCU Datalogger signal "Tampering Cause" and list the expected values below.
Overall Definition: • Value 0 = • Value 1 = • Value 2 = • Value 3 =

INSTRUCTION
Exit Datalogger and select Service Functions. Locate and define the following Service Functions below.

QUESTION 2

Activate Telematics Control Module

QUESTION 3

When would this function need to be run?

QUESTION 4

Telematics Server Communications Check

QUESTION 5

Network Registration Status

QUESTION 6

Telematics Control Module Battery Replacement Reset

QUESTION 7

Telematics SIM Card Type

QUESTION 8

With the ignition OFF, unplug the Telematics Control Module main connector. Try to start the vehicle. What is the result?

INSTRUCTION
Turn the ignition off and reconnect the Telematics Control Module main connector.

QUESTION 9

With the ignition ON, remove fuse RF20 (10 amp fuse) in the Rear Junction Box. Try to start the vehicle. What is the result?

QUESTION 10

Shut the engine off. With the ignition off and fuse RF20 (10 amp fuse) still removed. Try to start the vehicle. What is the result?

QUESTION 11

With fuse RF20 (10 amp fuse) in the Rear Junction Box still removed, what is the status of the eCall button?

INSTRUCTION
Reinstall fuse RF20.

QUESTION 12

Use the electrical guide provided to identify the TCU main ground pin.

QUESTION 13

Would the vehicle start if this ground was open circuit? Explain your answer.

INSTRUCTION
Clear all DTCs and exit the session.

QUESTION 14

Using the Six Step Process, outline a diagnostic procedure for locating a fault with the TCU System.