**Required Diagnostic Communications Tools Compatibility[[1]](#footnote-1)**. (Please answer with Yes/No/NA where applicable)



A)

a) Does the connector meet the requirements in subsection (h)(2) of title 13, CCR, section 1971.1?

Is a description of the location and picture of the connector provided?

b) Is the vehicle's controller area network communications protocol capable of connection and communication with scan tools that meet the requirements in subsection (h)(3) of title 13, CCR, section 1971.1?

Or

B) Does the vehicle have a device permanently installed that is capable of displaying the information required in subsection C.3.2 of ZEP Test Procedure without the need for additional diagnostic tools?

Is a description of the device provided?

Or

C) Have you used an alternative communications hardware and/or protocols, other than those specified in subsection C.3.1 of ZEP Test Procedure? If yes, what is the date of CARB approval?

* 1. Are the diagnostic communications specified hardware and/or protocols in subsection C.3.1 of ZEP Test Procedure capable of communicating the signals from any voltage and temperature sensors monitoring the battery that are useful for repair or diagnosis?

Parameters must include:

For battery-electric powertrains:

* Signals from any relevant voltage and temperature sensors monitoring the battery
* Cumulative Wh throughput of the battery pack
* Default percentage charge and discharge limits
* Charge rates (in kW)
* Current estimate of the usable energy capacity or remaining vehicle range (in miles)

For both battery-electric and fuel-cell powertrains:

* Any confirmed fault code referenced in the diagnostic/repair manual
  1. Is the powertrain capable of interfacing with a vehicle to communicate the parameters specified in subsection C.3.2 of ZEP Test Procedure through controller area network communications?

1. Section 3 of CALIFORNIA STANDARDS AND TEST PROCEDURES FOR NEW 2021 AND SUBSEQUENT MODEL HEAVY-DUTY ZERO-EMISSION POWERTRAINS, Adopted: June 27, 2019 [↑](#footnote-ref-1)