

Test Project

Automobile technology

Module D – Body Electrical and e-Mobility – Report Sheet

Report Sheet

Time allowed 120 Min

COMPETITOR NAME	COUNTRY CODE	MODULE	TRANSLATION LANGUAGE
		D	

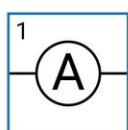
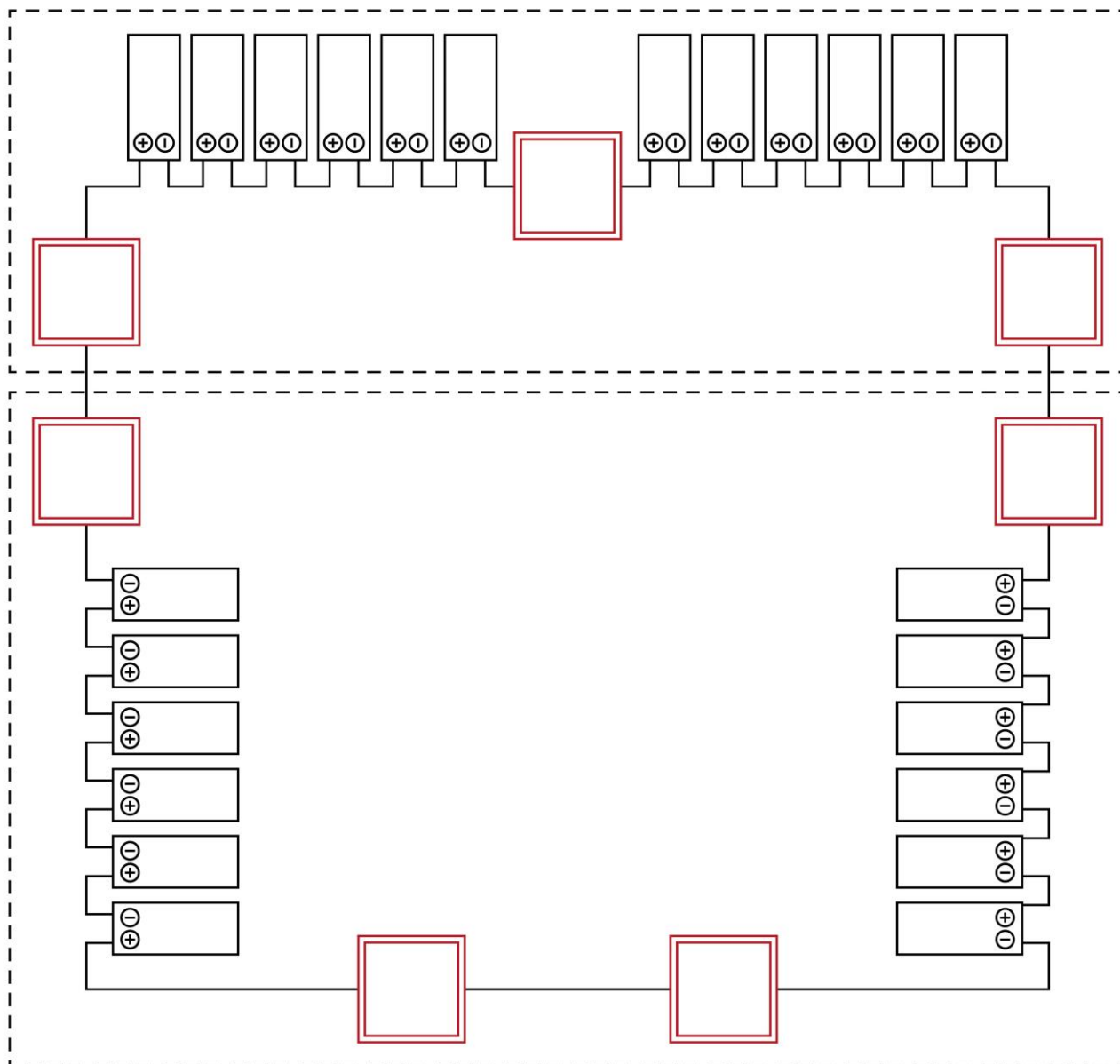
Task 3: Parking Distance Warning issues after vehicle body repair.

Diagnostic trouble code as provided by the body repair shop:

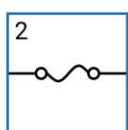
- U1612-26 LIN-bus – Parking sensors – Communication failure

Task 4: Complete the schematic so it represents the high voltage battery of the vehicle.

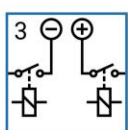
- Enter the component-numbers in the double outlined boxes.
- The component-numbers are given below the schematic.



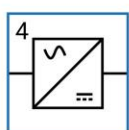
Current
Sensor



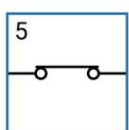
Fuse



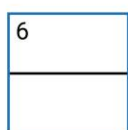
Main
Relays



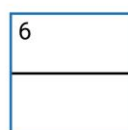
AC/DC
Converter



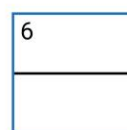
Plug



Cable



Cable



Cable

Task 5: Determine duration of high voltage system pre-charging using an oscilloscope, when switching ON ignition with the brake pedal depressed. Label trace(s).

Volt/div:

Time/div:

Description	Specification	Actual	OK	NOT OK
Pre-charge duration				

Task 6: e-Mobility customer complaints

- Vehicle does not charge on any charging point.
- Charging door does not lock.