

12V Tailgate Power Outlet Quality Control

Challenge

The customer requires a solution to verify the quality of the 12V power outlet located in the trunk. The verification must confirm correct connection to the extension cable routed behind the interior panels and be performed without connecting the vehicle to a battery.



Solution

- A battery-powered handheld capacitance measurement tool enables verification of the 12V power outlet connection without connecting the vehicle to a battery.
- Powered by a rechargeable battery for repeated measurement cycles.
- Dedicated measurement PCB performs capacitance verification in the circuit.
- Integrated LED indicators provide clear visual feedback of measurement status and results.

