



SURFACE VEHICLE STANDARD

SAE

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Superseding J563 MAR1990

(R) Standard for 12 Volt Cigarette Lighters, Power Outlets,
and Accessory Plugs

RATIONALE

This revision to the specification incorporates dimensional and performance additions to accommodate known and anticipated usages and installations, and adds more detailed testing requirements. It adds requirements for power outlets based on the lighter receptacle. It also adds requirements for aftermarket devices and plugs designed to be inserted into the lighter or power outlet receptacle. This revision is also intended to supersede SAE/USCAR-4, November 1997.

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1. SCOPE

This standard is intended to cover cigar or cigarette lighters as well as power outlets based on the form and dimensions of the cigar lighter, and accessory plugs for use in these devices. Components covered herein are designed to work in nominal 12 VDC systems. This standard is a full performance specification. It includes dimensional and operational parameters as well as performance characteristics which must be met when submitting a cigar lighter assembly, power outlet assembly, or plug for production approval. This standard constitutes an acceptance specification for these devices.

This standard covers the operational, reliability, durability, acceptance, and testing requirements for a cigar lighter (also referred to as just "lighter") for installation in the passenger compartment of production vehicles. This standard covers power outlets that are based on the form and dimensions of the lighter receptacle intended for installation in the passenger compartment of production vehicles. This standard also covers plugs designed for insertion into the power outlet. Associated components supplied as part of, or with the lighter or outlet are also covered. Additional requirements may be added for these devices when mounted outside the passenger compartment of production vehicles.