

	SURFACE VEHICLE RECOMMENDED PRACTICE	SAE	J2651 FEB2011
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Jump Start Connections for 42 Volt Electrical Systems			

RATIONALE

The technical report covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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1. Scope

This SAE Recommended Practice defines test methods and general requirements at all phases of development, production, and field analysis of electrical terminals (including sense pins), connectors, and components that constitute the jump-start connection for road vehicles having 42 V (nominal) electrical systems. The 42 V jump start connector is always remote from the vehicle battery and may take the form of an in-line or Header Connection, either of which is in an accessible location for attachment of a jumper cable from an assist vehicle or battery charger.

WARNING—The Jump Start Connector requires environmental protection. This specification assumes that such protection is in place and remains effective for the life of the vehicle. The level of protection depends on the vehicle packaging environment and duty cycle.

Appendix B of this document contains the physical specification for the Jump Start Connector.

2. References

2.1 Related Publications

The following publications are for information purposes only and are not a required part of this document.

2.1.1 SAE PUBLICATIONS

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J1127—Battery Cable

SAE J1128—Low Tension Primary Cable

SAE J2622—Battery Connections for 42 Volt Electrical Systems, Tests and General Performance Requirements

2.1.2 ISO PUBLICATIONS

Available at <http://www.iso.ch/iso/en/prods-services/ISOstore/store.html>

ISO 8092-2 Road Vehicles—Connections for On-board Electrical Wiring Harnesses

ISO 16750-4 Road Vehicles—Environmental Conditions and Testing for Electrical and Electronic Equipment—Part 4: Climatic Loads

3. Definitions

Terms defined in the definitions or abbreviations sections are capitalized (i.e., Room Temperature, PLR, etc.).

3.1 Acceptance Criteria

Generally the final section in each test description. It specifies the requirements that all test samples must meet during or at the conclusion of that test.