



SURFACE VEHICLE INFORMATION REPORT

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Electromagnetic Susceptibility Procedures for Common Mode
Injection (1 - 400 MHz), Module Testing

RATIONALE

The document has not been referenced or updated in thirty years; the test methodology (Direct RF Injection) has long been abandoned in industry.

The international document (ISO 11452-7) still exists as overall reference for the test method should a need arise.

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1. Scope—This document establishes a method of determining the relative level of susceptibility of electronic modules and the improvement or degradation which results from design changes to those modules. Further work needs to be done to correlate this module test to whole vehicle coupling in an electromagnetic field

2. References

2.1 Applicable Publication—The following publication forms a part of this specification to the extent specified herein. Unless otherwise indicated, the latest version of SAE publications shall apply.

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

SAE J1113—Electromagnetic Susceptibility Procedures for Vehicle Components (Except Aircraft)

3. Introduction

3.1 Measurement Philosophy—The Common Mode Injection Test method induces radio frequency (rf) energy into the electronic module under test. The test is designed to simulate conducted energy from transient sources in the vehicle as well as energy coupled to the vehicle wiring harnesses from on- and/or off-board radiating sources.