

SURFACE VEHICLE RECOMMENDED PRACTICE

J1171™

SEP2016

Issued 1977-09
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Reaffirmed 2016-09

Superseding J1171 MAR2011

External Ignition Protection of Marine Electrical Devices

RATIONALE

J1171 has been reaffirmed to comply with the SAE five year review policy.

1. **Scope**—This SAE Recommended Practice covers all electrical devices suitable for use in marine engine compartments and fuel tank spaces.
- 1.1 **Purpose**—To recommend a test procedure for certifying the External Ignition Protection of electrical devices used on boats.
2. **References**—There are no referenced publications specified herein.
3. **General**—A device shall not produce combustion by excessive external surface temperature or by an internally generated arc. Reproducible test procedures are necessary to ensure that neither condition can cause external ignition when the particular electrical device is being operated.

In the first case, which involves excessive external surface temperatures, a test procedure includes operation for a minimum time at a higher-than-rated system voltage (or current) level with a limiting external surface temperature value. This should assure that such a device is acceptable for use in an engine compartment or fuel tank space. This test procedure is detailed in Section 4.

In the second case, which involves devices containing parts capable of arcing, two test approaches are necessary since such devices may be either sealed or non-sealed. Those that are sealed are External Ignition Protected by the fact that a combustible mixture cannot enter the void in which the arc occurs. Therefore, the test of sealed devices is a test of the seal integrity. This test is detailed in Section 5.

Non-sealed devices are External Ignition Protected when tests demonstrate that ignition of a combustible mixture within the device does not cause ignition of a combustible mixture surrounding the device. This will be verified by 50 device explosions with the flammability of the mixture within the enclosing chamber being checked by a chamber explosion after each 10 device explosions as detailed in Section 6.

The test sequence for any device is:

- a. Section 4—Device Operation
- b. Section 5—Sealed Devices
- c. Section 6—Non-Sealed Devices

This is to ensure that any deficiency introduced in the device by the Operation Test Procedure, such as seal deterioration, etc., can be detected in the following tests.

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Sae J1171 Service Manual

Terry C. Jones



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Catalog of American national standards. 1994 ,1994 **Catalog of American National Standards** American National Standards Institute,1995 Service Manual White Motor Corporation,1976 **White Personalized Service Maintenance Manual** White Motor Company,1940 Operator, Organizational, and Direct Support Maintenance Manual for Test Set, Electronics System, AN/TSM-100A (NSN 4933-01-047-3389). ,1982

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