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Submitted for recognition as an American National Standard

SNOWMOBILE PASSENGER HANDGRIPS

Foreword—This Reaffirmed Document has been changed only to reflect the new SAE Technical Standards Board Format.

1. **Scope**—This SAE Recommended Practice is intended to give information to engineers and designers in order that access to a passenger handgrip, when used, is easily obtained and that such handgrips offer maximum safety for a person at least as large as a 95th percentile adult male during snowmobile operation.

2. References

2.1 **Applicable Publications**—The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply.

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

SAE J925—Minimum Service Access Dimensions for Off-Road Machines

2.1.2 AATCC PUBLICATIONS—Available from AATCC, 1 Dover Drive, P.O. Box 12215, Research Triangle Park, NC 27709-2215.

American Association Textile Chemists and Colorists (AATCC)

2.1.3 ASTM PUBLICATIONS—Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM Part 24—General Methods for Textile Materials

ASTM Part 27—General Test Methods for Plastics

2.1.4 FEDERAL PUBLICATIONS—Available from the Supervisor of Documents, U.S. Government Printing Office, Washington, DC 20402.

Federal CCC-T-191B—Textile Test Methods

Henry Dreyfuss, The Measure of Man (Human Factors in Design), Cincinnati: Watson Guptill Publications, 1973.

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3. Definitions

- 3.1 Snowmobile**—A self-propelled vehicle intended primarily for off-road travel on snow, having a curb weight of not more than 450 kg (1000 lb), driven by a track or tracks in contact with the terrain, steered by a ski or skis in contact with the terrain.
- 3.2 Passenger**—A person traveling on a snowmobile positioned either behind or beside the operator, but not controlling the vehicle.
- 3.3 Handgrip**—A device on a snowmobile grasped by the passenger to maintain balance and stability during operation.
- 3.4 Designated Seating Position**—Any plan view position intended by the manufacturer to provide accommodations for a 95th percentile adult male.

4. Requirements

- 4.1 Functionability**—A passenger handgrip should be designed so that its ability to function effectively is not adversely affected by climatic or atmospheric conditions (such as aging, ozone, sunlight, petrochemicals, and dirt). These parameters to be checked per the applicable section of ASTM Part 24, Federal Specification CCC-T-191B, ASTM Part 27, or Test Methods of the American Association of Textile Chemists and Colorists.
- 4.2 Location**—Either a single passenger handgrip or a double passenger handgrip, or both, shall be provided for each designated passenger position. A single handgrip shall be located directly in front of every seating position or double handgrips shall be provided, one on each side of the seating position. All passenger handgrips shall be large enough to be easily grasped without exerting force or pressure by a 95th percentile adult male wearing heavy Arctic mittens, re: SAE J925.
- 4.3 Loading**—Every passenger handgrip shall be attached to a load-carrying part of the snowmobile and shall be capable of withstanding an 1800 N (400 lb) tensile force applied in the vertical plane and a 900 N (200 lb) tensile force applied in the horizontal plane, without failure of either the handgrip or its attach mechanism from the vehicle throughout a temperature range consistent with the methods of ASTM Part 27.
- 4.3.1 Any handgrip not rigidly attached to the snowmobile shall be affixed so it automatically returns to a position that is readily accessible.
- 5. Durability Cycle Test**—Durability should be verified by cycling the handgrip mounted in its designed position, applying 900 N (200 lb) tensile load vertically for 5000 repetitions. Upon completion of the cycle test, the unit must meet the requirements of 4.3.

PREPARED BY THE SAE SNOWMOBILE COMMITTEE