

**(R) Brake Rating Power Requirements—Truck and Bus****RATIONALE**

Deletion of obsolete terminology (i.e. horsepower). Revision to the brake system service pressure ranges, both hydraulic and air, to more accurately reflect typical system service pressure ranges and governor cut-in pressure settings in accordance with current industry practices..

**FOREWORD**

The 5-year revision of this document addresses only those changes needed for metrification and compatibility with the revisions of SAE J880, Brakes System Rating Test Code. Also it has been changed to comply with the SAE Technical Standards Board format. No change in the level of recommended performance is intended.

The performance requirements in this SAE Recommended Practice represent the accumulation of the best information available from investigation of the service brake system performance of new motor vehicles designed for highway use. It reflects the requirements not only of long mountain grades, but also the demands of heavy traffic conditions which impose a relatively higher brake power duty cycle on the lighter commercial vehicles that accelerate and decelerate more frequently and to higher speeds because of their substantially lower weight-to-horsepower ratio.

**1. SCOPE**

The minimum performance values in this SAE Recommended Practice are applicable to vehicles with brake systems having typical service pressure ranges 0 to 16.6 MPa (0 to 2400 psi) hydraulic or 0 to 945 kPa (0 to 135 psi) air only. SAE J880 not only provides for determining maximum brake rating power capability, but also permits verification of any desired or arbitrary level such as the requirement established herein. The determining criteria for deciding brake rating power capability are:

- a. Cold brake stopping ability.
- b. Fade as a result of brake power absorption.
- c. Hot brake stopping ability following brake power absorption.
- d. Brake system stability following brake power absorption.
- e. Functional and structural integrity of brake system following test.

**1.1 Purpose**

The purpose of this document is to establish a minimum Brake Rating Power (BRP) level for commercial vehicles tested in accordance with SAE J880.

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