

SURFACE VEHICLE RECOMMENDED PRACTICE

J1854

SEP2013

Issued 1988-06
Reaffirmed 2013-09

Superseding J1854 SEP2003

Brake Force Distribution Performance Guide - Truck and Bus

RATIONALE

J1854 has been reaffirmed to comply with the SAE five-year review policy.

Foreword—This Document has been changed to reflect a 5-year review and update.

The performance guidelines specified in this SAE Recommended Practice represent the accumulation of information available from investigations of the brake system performance of air-braked towing, truck-tractors, truck-trailers, converter dollies, and combinations of these types of vehicles. Because these guidelines are based on data limited by voluntary submissions of equipment and information and testing was limited to specific conditions, they may not necessarily represent optimum performance for all vehicles under all operating conditions. Therefore, the values specified in this document are target values; all targets are mean values except for the one minimum value specified.

1. Scope—This SAE Recommended Practice establishes performance guidelines for the threshold pressure and brake force output of the brakes on the axles of air-braked towing trucks, truck-tractors, truck-trailers, and converter dollies with GVWRs over 4536 kg (10 000 lb) designed to be used on the highway in combination with other air-braked vehicles of this type in commercial operations.

1.1 Purpose—The purpose of this document is to establish target threshold pressures and brake force outputs with reference to brake application pressures as measured at the rear control line gladhand of truck-tractors and towing trucks, the front control line gladhand of non-towing trailers, and the front and rear control line gladhand of towing trailers and dollies.

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

SAE J1505—Brake Force Distribution Test Procedure—Truck & Bus

2.1.2 FMVSS PUBLICATION—Available from the Superintendent of Documents, U. S. Government Printing Office, Mail Stop: SSOP, Washington, DC 20402-9320.

49 CFR 571.121—Brake Performance—Air Brake Systems

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