



# SURFACE VEHICLE RECOMMENDED PRACTICE

J2378

NOV2014

Issued 2003-07  
Stabilized 2014-11

Superseding J2378 AUG2010

Test Procedure for Trailer Air Reservoir Fill and Parking Brake Release Times

## RATIONALE

This Recommended Practice is being stabilized because it covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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**1. Scope**—This SAE Recommended Practice provides instructions and test procedures for air braked trailers and dollies used in single and multiple trailer combinations on highway. This document is not intended for off-highway application.

**1.1 Purpose**—This document provides a method of determining the efficiency of trailer and dolly air supply systems in filling reservoirs and, for those with spring applied parking brakes, in releasing parking brakes.

## **2. References**

**2.1 Applicable Publications**—The following publications form 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 PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J318—Automotive Air Brake Line Couplers (Gladhands)

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

Federal Motor Vehicles Safety Standard 121, Air Brake Systems

## **3. Instrumentation and Equipment**

### **3.1 Instrumentation**

3.1.1 Timing device accurate to within 1% of elapsed time.

3.1.2 At least three pressure gages accurate to within 2% of the pressure readings.

3.1.3 (Optional) electronic pressure measuring system accurate to within 2% of the pressure readings (i.e., pressure transducers).