

	SURFACE VEHICLE RECOMMENDED PRACTICE	SAE J291 APR2013
		Issued 1972-06 Stabilized 2013-04 Superseding J291 JUN1980
Determination of Brake Fluid Temperature		

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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

1. **Scope**—This code provides a test procedure for obtaining and determining extremely high brake fluid temperature encountered in the brake system of a vehicle that is equipped with disc brakes. Vehicles in normal operation may or may not produce brake fluid temperatures that are obtained in this procedure.
 - 1.1 **Purpose**—To establish a uniform procedure for obtaining and determining a maximum temperature of brake fluid in the automotive braking system of vehicles equipped with disc brakes. This procedure is a uniform means of heating the brakes and the brake fluid and is not a simulation of any other test procedure.
2. **References**—There are no referenced publications specified herein.
3. **Equipment**
 - 3.1 Thermocouples
 - 3.2 Line pressure gages, 0–300 psi (0–2.07 MPa) range
 - 3.3 Temperature instrumentation, 650 F (616 K) capability
 - 3.4 Stopwatch
 - 3.5 Calibrated speedometer and odometer
 - 3.6 Ambient temperature thermometer
4. **Procedure**¹
 - 4.1 **Preliminary Preparations**

1. **Caution**—This test may be destructive to the brake system and may affect the handling or stopping ability of the vehicle. It is suggested that the test be conducted by skilled personnel under carefully controlled conditions.

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