

SAE J1914 MAR88

**Dynamic Ozone
Test Procedure —
Hydraulic Brake Hose**

**SAE Recommended Practice
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DYNAMIC OZONE TEST PROCEDURE - HYDRAULIC BRAKE HOSE

1. PURPOSE:

The purpose of this recommended practice is to evaluate in the laboratory the effect of flexing on a brake hose when exposed to a high ozone concentration environment.

2. SCOPE:

This recommended practice is intended for all vehicle hydraulic brake hoses. It is an accelerated test which subjects the hose to dynamic ozone exposure.

3. TEST APPARATUS:

3.1 Brake hose cut lengths of 218 ± 3 mm (8.6 ± 0.1 in).

3.2 SAE dynamic ozone test apparatus that will flex the brake hose as shown in Fig. 1.

3.3 Ozone test chamber.

4. TEST PREPARATION:

4.1 Pre-condition all the brake hose samples in a non-stressed condition at $27 \pm 6^\circ\text{C}$ ($80 \pm 10^\circ\text{F}$) for at least 24 h prior to the start of the test.

5. TEST PROCEDURE:

5.1 Assemble the brake hose samples on the SAE dynamic ozone test apparatus so that they meet the relative position and flex parameters as shown in Fig. 1.

5.1.1 Install the brake hose over the fixture pins until the hose has bottomed out.

5.1.2 Use band clamps to securely retain the brake hose on the pin.

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