



## **Retaining Force of Wire Rings in Wheel Covers**

### **1 Introduction**

**Note:** Nothing in this standard supercedes applicable laws and regulations.

**Note:** In the event of conflict between the English and domestic language, the English language shall take precedence.

**1.1 Purpose.** Determination of retaining force of the wire ring of a full face wheel cover in retaining clip.

**1.2 Applicability.** This test procedure only applies for wheel covers with foot and wire retaining system.

### **2 References**

**Note:** Only the latest approved standards are applicable unless otherwise specified.

#### **2.1 External Standards/Specifications.**

None

#### **2.2 GM Standards/Specifications.**

GMW16590

### **3 Resources**

**3.1 Facilities.** Roofed laboratory.

#### **3.2 Equipment.**

**3.2.1** Fixture for holding wheel cover and wire ring. See Figure 1.

**3.2.2** Measuring device for wire ring retaining force (e.g., piezoelectric force transducer, Kistler type 9021 or equivalent). See Figure 2.

**3.2.3** Pulling hook. See Figure 2.

**3.3 Test Vehicle/Test Piece.** The number of wheel covers for testing shall be agreed upon with the responsible product engineer.

#### **3.4 Test Time.**

Calendar time: 1 day

Test hours: 2 hours

Coordination hours: 6 hours

**3.5 Test Required Information.** Not applicable.

**3.6 Personnel/Skills.** Lab technician trained in operation of test equipment.

### **4 Procedure**

#### **4.1 Preparation.**

**4.1.1** The wheel cover must be installed in the fixture. See Figure 1.

**4.1.2** The wheel cover fixture must be secured to a test stand/table.

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**Documents**

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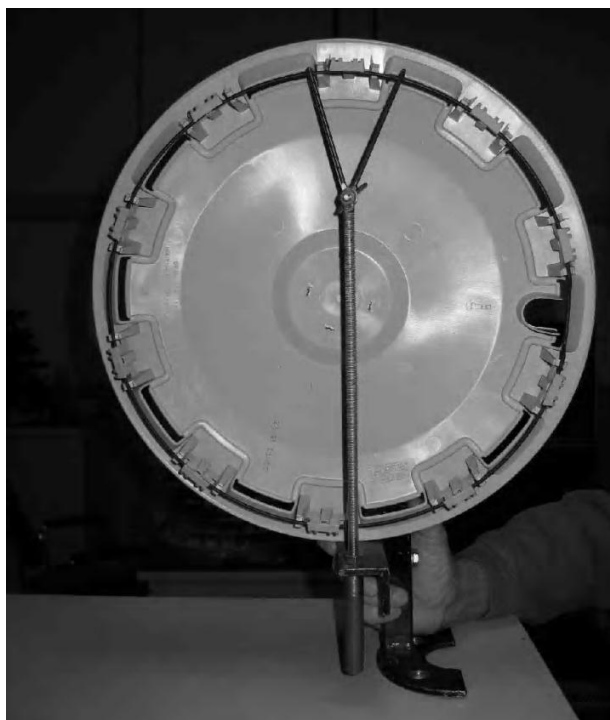


Figure 1: Fixture for Holding Wheel Cover and Wire Ring

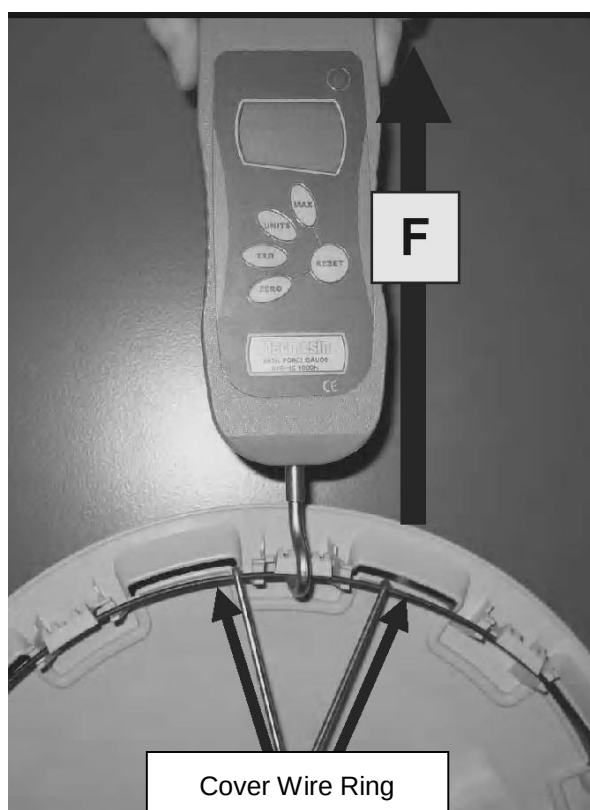


Figure 2: Measuring Device for Wire Retaining Force and Pulling Hook

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