

TP111V-00  
October 28, 1999

# U.S. DEPARTMENT OF TRANSPORTATION

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

## LABORATORY TEST PROCEDURE

FOR

**FMVSS 111 – Rearview Mirrors  
(Other Than School Buses)**



**SAFETY ASSURANCE**  
Office of Vehicle Safety Compliance  
Room 6111, NSA-30  
400 Seventh Street, SW  
Washington, DC 20590

OVSC LABORATORY TEST PROCEDURE NO. 111V  
TABLE OF CONTENTS

	PAGE
1. PURPOSE AND APPLICATION.....	1
2. GENERAL REQUIREMENTS.....	2
3. SECURITY .....	4
4. GOOD HOUSEKEEPING .....	4
5. TEST SCHEDULING AND MONITORING .....	4
6. TEST DATA DISPOSITION.....	5
7. GOVERNMENT FURNISHED PROPERTY (GFP).....	5
8. CALIBRATION OF TEST INSTRUMENTS.....	6
9. PHOTOGRAPHIC DOCUMENTATION.....	7
10. DEFINITIONS.....	8
11. PRETEST REQUIREMENTS .....	9
12. COMPLIANCE TEST EXECUTION.....	11
13. POST TEST REQUIREMENTS.....	43
14. REPORTS .....	44
14.1. MONTHLY STATUS REPORTS .....	44
14.2. APPARENT TEST FAILURE .....	44
14.3. FINAL TEST REPORTS .....	44
14.3.1. COPIES .....	44
14.3.2. REQUIREMENTS.....	45
14.3.3. FIRST THREE PAGES.....	45
14.3.4. TABLE OF CONTENTS.....	51
15. DATA SHEETS.....	52
16. FORMS .....	71

**REVISION CONTROL LOG**  
 FOR OVSC LABORATORY TEST PROCEDURES  
 TP111V -- Rearview Mirrors  
 (other than school buses)

Test Procedure		FMVSS 111V		Description
Rev.No.	Date	Amendment	Effective Date	
00	10/28/99	63FR51000	5/27/99	Revised Table 1 - Conversions
01				
02				
03				
04				
05				

## 1. PURPOSE AND APPLICATION

The Office of Vehicle Safety Compliance (OVSC) provides contractor laboratories with Laboratory Test Procedures as guidelines for obtaining compliance test data. The data are used to determine if a specific vehicle or item of motor vehicle equipment meets the minimum performance requirements of the subject Federal Motor Vehicle Safety Standard (FMVSS). The purpose of the OVSC Laboratory Test Procedures is to present a uniform testing and data recording format, and provide suggestions for the use of specific equipment and procedures. If any contractor views any part of an OVSC Laboratory Test Procedure to be in conflict with a Federal Motor Vehicle Safety Standard (FMVSS) or observes deficiencies in a Laboratory Test Procedure, the contractor is required to advise the Contracting Officer's Technical Representative (COTR) and resolve the discrepancy prior to the start of compliance testing.

Every contractor is required to submit a detailed test procedure to the COTR before initiating the compliance test program. The procedure must include a step-by-step description of the methodology to be used. The contractor's test procedure shall contain a complete listing of test equipment with make and model number and a detailed check-off sheet. The list of test equipment shall include instrument accuracy and calibration dates. All equipment shall be calibrated in accordance with the manufacturer's instructions. There shall be no contradictions between the Laboratory Test Procedure and the contractor's in-house test procedure. Written approval of the in-house test procedures shall be obtained from the COTR before initiating the compliance test program. The OVSC Laboratory Test Procedures are not intended to limit or restrain a contractor from developing or utilizing any testing techniques or equipment which will assist in procuring the required compliance test data. These Laboratory Test Procedures do not constitute an endorsement or recommendation for use of any product or method. However, the application of any such testing technique or equipment is subject to prior approval of the COTR.

**NOTE:** The OVSC Laboratory Test Procedures, prepared for the limited purpose of use by independent laboratories under contract to conduct compliance tests for the OVSC, are not rules, regulations or NHTSA interpretations regarding the meaning of a FMVSS. The Laboratory Test Procedures are not intended to limit the requirements of the applicable FMVSS(s). In some cases, the OVSC Laboratory Test Procedures do not include all of the various FMVSS minimum performance requirements. Recognizing applicable test tolerances, the Laboratory Test Procedures may specify test conditions that are less severe than the minimum requirements of the standard. In addition, the Laboratory Test Procedures may be modified by

## 1. PURPOSE AND APPLICATION....Continued

the OVSC at any time without notice, and the COTR may direct or authorize contractors to deviate from these procedures, as long as the tests are performed in a manner consistent with the standard itself and within the scope of the contract. Laboratory Test Procedures may not be relied upon to create any right or benefit in any person. Therefore, compliance of a vehicle or item of motor vehicle equipment is not necessarily guaranteed if the manufacturer limits its certification tests to those described in the OVSC Laboratory Test Procedures.

## 2. GENERAL REQUIREMENTS

FMVSS 111 specifies requirements for the performance and location of rearview mirrors.

### REQUIREMENTS FOR PASSENGER CARS

Each passenger car shall have an inside rearview mirror of unit magnification with the required field-of-view and a driver's side outside rearview mirror of unit magnification with the required field-of-view. If the inside rearview mirror does not meet the field-of-view requirements, an outside rearview mirror of unit magnification or a convex mirror (with required markings) is required on the passenger's side. The average radius of curvature of the convex mirror shall be not less than 889 millimeters (mm) and not more than 1,651 mm. All the required mirrors must be adjustable in both the vertical and horizontal directions and have a stable mounting.

### REQUIREMENTS FOR MPVs, TRUCKS AND BUSES (OTHER THAN SCHOOL BUSES) WITH A GVWR 4,536 KILOGRAMS

- A. Mirrors as described for passenger cars, OR
- B. Unit magnification outside mirrors on both sides of the vehicle with stable supports, adjustable in both the vertical and horizontal directions, and with reflective surface of at least 126 square centimeters (cm<sup>2</sup>).

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.