



## ENGINEERING STANDARDS

### Test Procedure

EDS-T-2214

## Transmission Deformation

## Transmission Deformation

### 1 Introduction

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

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

**1.1 Purpose.** Determination of the deformation for shafts, axles, and gears.

### 2 References

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

#### 2.1 External Standards/Specifications.

None

#### 2.2 GM Standards/Specifications.

None

#### 2.3 Additional References.

None

### 3 Resources

#### 3.1 Facilities.

**3.1.1 Calibration.** The test facilities and equipment shall be in good working order and shall have a valid calibration label.

**3.1.2 Alternatives.** Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

#### 3.2 Equipment.

##### 3.2.1 Clamping Angle.

##### 3.2.2 Weights.

##### 3.2.3 Lever Arm.

##### 3.2.4 Dial Gages.

##### 3.2.5 Leveling Plate.

### 4 Procedure

#### 4.1 Conditions.

**4.1.1 Test Conditions.** Deviations from the requirements of this standard shall have been agreed upon. Such requirements shall be specified on component drawings, test certificates, reports, etc.

#### 4.2 Instructions.

**4.2.1** Mount clamping angle on the leveling plate, and the transmission on the angle. Load is applied as a reaction mount on the output side via a lever arm with weights. Drive has to be blocked for this procedure.

**4.2.2** Deformation of the housing and movements of shafts axles and gears are shown by dial gages. Strain peaks can be made visible by brittle lacquer applied on the housing.

### 5 Data

**5.1 Evaluations.** The evaluation of the deformations is up to the Experimental Engineer.

## 6 Safety

This standard may involve hazardous materials, operations, and equipment. This standard does not propose to address all the safety problems associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

## 7 Notes

**7.1 Glossary.** Not applicable.

**7.2 Acronyms, Abbreviations, and Symbols.** Not applicable.

## 8 Coding System

This standard shall be referenced in other documents, drawings, etc., as follows:

Test to EDS-T-2214

## 9 Release and Revisions

This standard was originated in July 1996. It was first approved by Engineering Standard Committee in July 1996. It was first published in July 1996.

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