KES

Torsion Beam Torsion Durability Test

KES T – I759

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Supplementary Provision

KIA MOTORS

Full document details: KIA KES T-I759 1989

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1. Scope of Application

This shall be applied to the compact passenger car equipped with torsion beam.

2. Purpose

The purpose of this standard shall be to evaluate the strength of the torsion beam, a part of suspension, through the torsion durability test.

3. Evaluation Standard

There should be no deformation or crack harmful to the torsion beam after finishing a test.

4. Test Condition

(1) Frequency : 1 Hz
(2) Shaking waveform : Sine wave
(3) Displacement : ± 50 mm (Displacement control)
(4) Durability number : 50,000 times

5. Test Method

(1) Set the torsion beam and fixing bracket to the support.
(2) Adjust the torsion beam and wheel hub.
(Fixing torque should be the lower limit of drawing values.)
(3) Set up the oil pressure compressor and loading support.
(4) Fix the bracket of the support and torsion beam.
(5) Assemble the wheel hub of the torsion beam side and the loading support of oil pressure compressor side.
(6) Set the fixing condition of the torsion beam horizontal and set up on the table.
(7) Perform a test.

6. Measurement Item

(1) Measure the load change for a test.
(2) Measure the torsion beam change amount.

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