



Steering Gear & Pitman Arm Reverse Durability Test

KES T – I405

(EST.) 1989 – 03 – 20

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1. Purpose

This standard decides the system and method for Steering Gear & Pitman Arm Reverse Durability Test.

2. Scope of Application

It shall be applied for ball screw type Steering Gear & Pitman Arm.

3. Evaluation Standard

It shall perform normally without problems on each part after durability test.

Table 1

Items \ Vehicle type	NT-O	Bongo	Ceres
Worm Torque	5 kgm	-	-
Sector Torque	-	50 kg · m	50 kg · m
Sector Shaft Performing Angle	Left 30 °, Right 5 °	Left 30 °, Right 5 °	±15 °
Performing Speed	40 ~ 60CPM	40 ~ 60CPM	40 ~ 60CPM
Times	50,000	200,000	200,000

Remark Testing condition for representing car type.

5. Testing Method

- (1) Fix steering gear and Pitman arm on jig with real car's holding angle.
- (2) Attach inertia plate to worm gear according to the testing condition.
- (3) Convert the Pitman arm performing angle to displacement. Shake the Pitman arm.