

KES

Steering Gear & Pitman Arm Drop Weight Impact Test

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1. Scope of Application

This shall be applied to a steering gear & pitman arm for a car.

2. Purpose

The purpose of this standard shall be to regulate the system of drop weight impact test of a steering gear and pitman arm for a car.

3. Evaluation Standard

- (1) Load sector torque as a target value 10 times. (Ex : NT-1 429 kgf · m, Bongo 150 kgf · m, 3M 230 kgf · m and etc.)
- (2) Set a fracture torque as a target value according to a car type.

4. Test Condition

- (1) Drop weight : 50 kg
- (2) Fix a handle side and drop a heavy weight at the edge of a pitman arm.
- (3) Load a regular sector torque 10 times.
- (4) After loading 10 times, raise the height of the heavy weight gradually to its fracture.

5. Test Method

- (1) Calibrate a torque value by attaching strain gauge to the pinion of the steering gear and pitman arm.

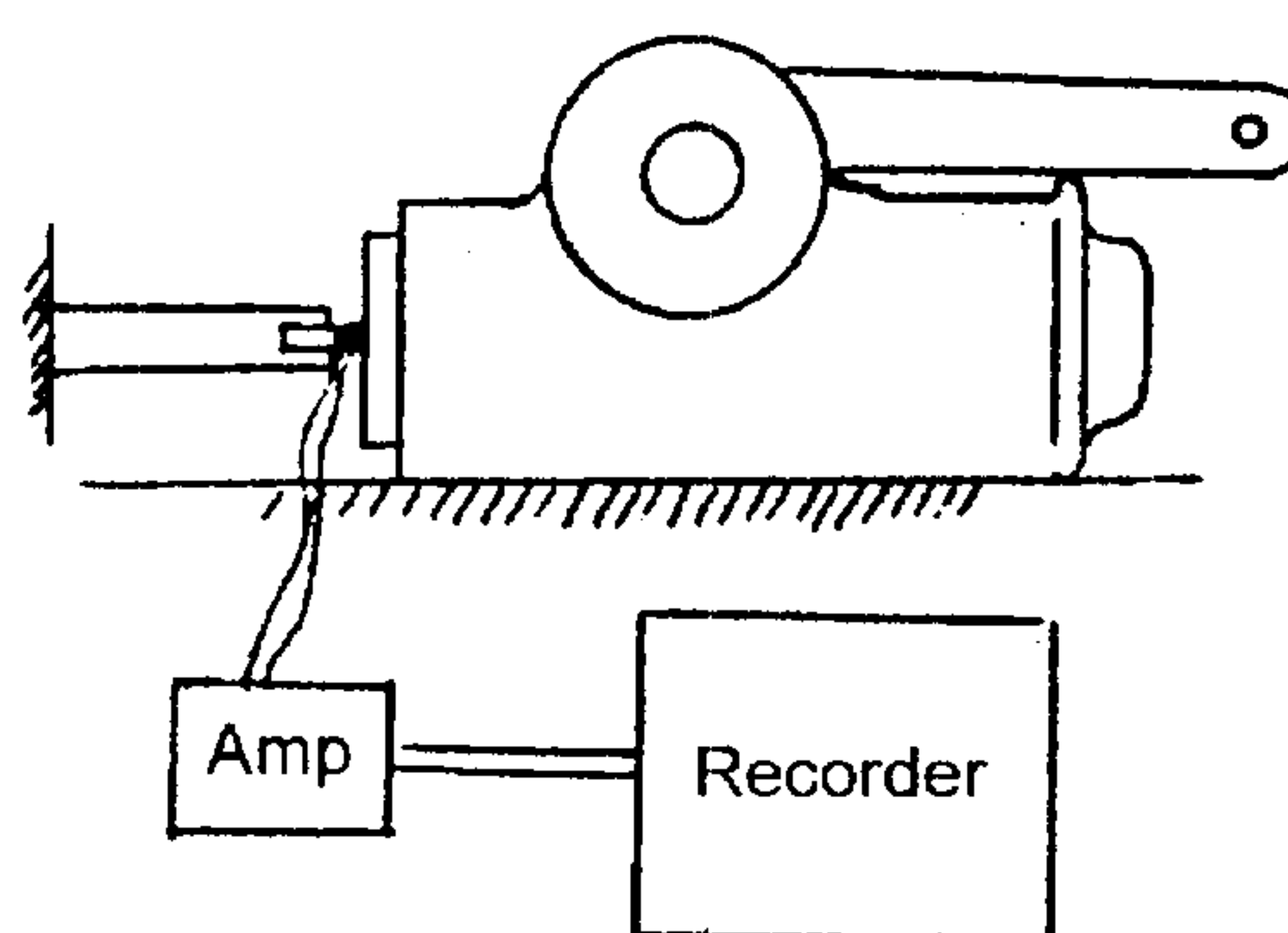


Fig. 1