

KES

Analysis Standard of Engine,
Car Body, Steering Wheel,
Vibration Mode of Idle Zone

KES T-G325

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1. Scope of Application

This shall apply for all types of cars.

2. Purpose

This shall be for the purpose of extraction of model parameter to analyse resonance (engine, car body, steering wheel) which is main source of vibration noise that occurs by engine combustion when idle operation.

3. Using Equipment & Software

- (1) Accelerometer
- (2) Force Sensor
- (3) Pre-amplifier & power amplifier
- (4) Exciter
- (5) Signal generator
- (6) Tape recorder
- (7) FFT analyzer (Zx : General 2515, SD-375)
- (8) Computer, printer, ploher
- (9) Model analysis S/W (Zx : T-DAS, LMS)

4. Test Method

4.1 Selection and Installation of Test Equipment

- (1) Install the vibrator enough to vibrate all of engine, car body, steering wheel. In case of passenger cars, the vibrator more than 500N will do, but the vibrator less than it may be used when the power amp is appropriately used.
- (2) When a lot of energy is required at low frequency, the oil pressure vibrator shall be appropriate.