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**Parts for railway signal — Vibration
test methods**

ICS 45.080

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Transportation through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS E 3014:1992** is replaced with **JIS E 3014:1999**.

Date of Establishment: 1976-12-10

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4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
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Parts for railway signal — Vibration test methods

1 Scope This Japanese Industrial Standard specifies the methods for such general vibration tests (hereafter referred to as "vibration tests"), that signals, relay supports, apparatus boxes, power point machines and equipments and parts to be mounted to rails or the like (hereafter referred to as "parts") which are in the category of railway signalling equipment are subject to the attachment to a vibration stand. However, those methods are not applicable to signalling equipment to be mounted on vehicle.

- Remarks**
1. The vibration tests mean resonance test, vibration function test and vibration endurance test.
 2. The parts mean the ones which are mounted to structural member such as signals, relay supports, apparatus boxes, power point machines, rails, etc. directly or via cushioning materials or devices.
 3. In this Standard, the units and numerical values places in { } are based on traditional unit system, and appended for information.

2 Normative reference The following standard contains provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent edition of the standard indicated below shall be applied.

JIS E 3013 *Glossary of terms of railway signalling*

3 Definitions For the purposes of this Standard, in addition to the definitions specified in **JIS E 3013**, the following principal definitions apply.

- a) resonance test** A test which examines whether resonances will occur at specific portion of part or not, and obtain the resonance frequencies, if any.
- b) vibration function test** A test which examines the functions of part subjected to the prescribed vibration, and compares the functions so obtained with those not subjected to the vibration.
- c) vibration endurance test** A test which examines the endurance of part to the prescribed vibration.

4 Classification Vibration tests are classified as stated in Table 1 according to the magnitude of vibration given to the part.

Table 1 Classification

Classification	Applicable parts
Class 1	Internal parts of equipment for indoor installation in relay room, signal station, etc.
Class 2	Internal parts of such equipment installed on the sides of rail as signal, apparatus box, impedance bond, etc.