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**JIS D 1001** : 1993

(Reaffirmed in 2000)

**Road vehicles —  
Engine power test code**

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ICS 43.060.01

Reference number : JIS D 1001 : 1993 (E)

## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents,  
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## Road vehicles — Engine power test code

1 **Scope** This Japanese Industrial Standard specifies test methods for gross shaft output and net shaft output of spark ignition engines and diesel engines for automobiles, under full load conditions.

This Standard is not applicable to engines designed for two-wheeled vehicles and agricultural tractors.

NOTES 1 The normative references to this Standard are as follows:

JIS K 2202 *Motor gasoline*

JIS K 2204 *Diesel fuel*

JIS Z 8806 *Humidity—Measurement methods*

2 International Standards corresponding to this Standard are as follows:

ISO 1585 *Road vehicles—Engine test code—Net power*

ISO 2534 *Road vehicles—Engine test code—Gross power*

2 **Definition of terms** For the purpose of this Standard, the following terms and definitions apply.

- (1) **gross shaft output** shaft output measured while the engine is equipped with only those auxiliary items required for engine operation (auxiliary equipment mounting condition A shown in table 1) and is loaded on the test bed
- (2) **net shaft output** shaft output measured while the engine is equipped with all auxiliary items required for specific applications (auxiliary equipment mounting condition B shown in table 1)

3 **Test conditions** Conditions for engines, fuels, lubricating oils and measuring instruments used for the test shall be as follows:

- (1) The engine shall be subjected to recommended break-in operation prior to testing.
- (2) The auxiliary equipment shown in table 1 shall be mounted to resemble actual conditions as close as possible appropriate to the gross shaft output test or the net shaft output test.
  - (a) Auxiliary equipment normally mounted to the engine and required only for vehicle operation shall be removed during the test. When removal of such equipment is not possible, the power to be absorbed by this equipment under no load