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**NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**GB/T 6809.4-2007**

Replacing GB/T 6809.4-1989

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**Reciprocating internal combustion engines -- Vocabulary of  
components and systems -- Part 4: Pressure charging and  
air/exhaust gas ducting systems**

往复式内燃机 零部件和系统术语 第4部分：增压及进排气管系统

**(English Translation)**

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### Foreword

GB/T 6809 "Reciprocating internal combustion engine components and systems" consists of the following components.

- Part 1. Structure and external covers;
- Part 2. Valves, camshaft drive and actuating mechanisms;
- Part 3. The main moving parts;
- Part 4. Pressure charging and exhaust systems;
- Part 5. Cooling system;
- Part 6. Lubricating systems;
- Part 7. Governing systems;
- Part 8. Starting systems;
- Part 9. monitoring system.

This is Part 4 GB/T 6809's.

This part identical with ISO 7967-4:2005 "Reciprocating internal combustion engine components and systems - Vocabulary - Part 4. Pressure charging and air exhaust Managed Systems "(in English).

This section is equivalent translation ISO 7967-4:2005.

For ease of use, this section made the following editorial changes.

- "This International Standard" be replaced by "this section";
- Deleted international standards foreword.

This part is GB/T 6809.4-1989 "Reciprocating internal combustion engines - Terminology of components pressure - charging and exhaust system" amendment.

This portion of the GB/T 6809.4-1989 main difference is.

- Increasing the normative references;
- Modifications and additions some of the terms;
- Terminology classified arrangement;
- Complements the English index.

This part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee under the jurisdiction of the internal combustion engine.

## 1 Scope

GB/T 6809 This section specifies the terms and supercharged reciprocating internal combustion engine intake and exhaust pipes and related systems.

GB/T 1883 provides a classification of reciprocating internal combustion engines and sets out the basic terms of this engine and its operating characteristics.

## 2 Normative references

The following documents contain provisions which, through reference to GB/T 6809 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Research into whether the parties to the agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 6809.5-1999 Reciprocating internal combustion engine components and systems - Part 5. Cooling systems (idt ISO 7967-5:1992)

## 3 Terms and Definitions

The following terms and definitions apply to this section.

### 3.1 Exhaust gas turbocharger type

No. Definition Legend 3.1.1 Exhaust turbocharger the compressed air engine input device, by the Department of Gas turbine exhaust gas pressure and coaxial drive connection Wheel composed 3.1.2 Low-pressure turbocharger Two-stage turbocharging system in a first stage turbine Turbocharger. Fresh air enters the system is Compressed to a high pressure compressor impeller intake before pressure 3.1.3 the high-pressure turbocharger Two-stage turbocharging system in a second stage turbine Turbocharger. By the

low-pressure turbocharger output Air is compressed to a supercharging pressure 3.1.4  
Variable Geometry Turbocharger Equipped with a turbine nozzle ring can be changed or  
compressor Impeller ring channel diffuser means sectional profile and Turbocharger 3.1.5  
Coupled turbocharger engine-coupled turbocharger its rotor coupled with the crankshaft of  
the engine turbo Voltage regulator GB/T 6809.4-2007/ISO 7967-4:2005