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**Automotive parts — Starter motors
for commercial vehicles and buses
— Mounting dimensions**

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Descriptors : road vehicles, starting motors, dimensions, ignition systems (internal combustion engines), buses, commercial road vehicles

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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 Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS D 5203 : 1976** is replaced with **JIS D 5203 : 1998**.

This revision was prepared based on **ISO 7650, Commercial vehicles and buses — Mounting dimensions for starter motors of types 1, 2, 3 and 4**. In this revision, the title was modified, and at the same time, the contents were changed from the mounting dimensions of all the starter motors for automobiles to those of starter motors for commercial vehicles and buses, in conformity with the corresponding International Standard.

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In the event of any doubts arising as to the contents,
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Automotive parts—Starter motors for commercial vehicles and buses—Mounting dimensions

Introduction This Japanese Industrial Standard has been prepared on the basis of the first edition of **ISO 7650, Commercial vehicles and buses—Mounting dimensions for starter motors of types 1, 2, 3 and 4**, published in 1987, for the parts corresponding thereto (types 1A, 1B, 2A, 2B, 3A, 3B, 4A and 4B of the starter) without any modification in technical contents, and some items (N1 type, N2 type, NL1 type and NL2 type of the starters) not specified in the corresponding International Standard have been additionally contained herein as Japanese Industrial Standard.

The parts underlined with dots are the matters not included in the original International Standard.

1 Scope This Standard specifies the shape and dimensions of the engine mounting part of a starter for large vehicles (hereafter referred to as “starter”).

2 Types of starters The types of starters shall be classified as shown in Table 1 according to the pinion bearing part (hereafter referred to as “nose”).

Table 1 Type of starter

Kind	Type	Symbol ⁽¹⁾	Dimensional drawing	Output (informative reference) kW	Remarks
with nose	1A	—	Fig. 1	4.5, 5.5, 6.0 7.0 to 7.4, 8.0	ISO 7650 type 1A
	1B				ISO 7650 type 1B
	2A				ISO 7650 type 2A
	2B				ISO 7650 type 2B
	<u>Type N1</u>	<u>N1 - R</u>	Fig. 2	4.5	—
		<u>N1 - L</u>			
	<u>Type N2</u>	<u>N2 - R</u>			—
without nose	3A	—	Fig. 3	4.5 5.5	ISO 7650 type 3A
	3B				ISO 7650 type 3B
	4A				ISO 7650 type 4A
	4B				ISO 7650 type 4B
	<u>Type NL1</u>	<u>NL1 - R</u>	Fig. 4	4.5	—
		<u>NL1 - L</u>			
	<u>Type NL2</u>	<u>NL2 - R</u>			—
		<u>NL2 - L</u>			

Note ⁽¹⁾ R denotes the case where a pinion opening part is on the right side, while L denotes the case where it is on the left side.