

**Isuzu Diesel Engine 6bg1**

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# ISUZU DIESEL ENGINE 6BG1

# INSTRUCTION MANUAL

**ISUZU MOTORS LIMITED**

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# ENGINE EXTERNAL VIEWS

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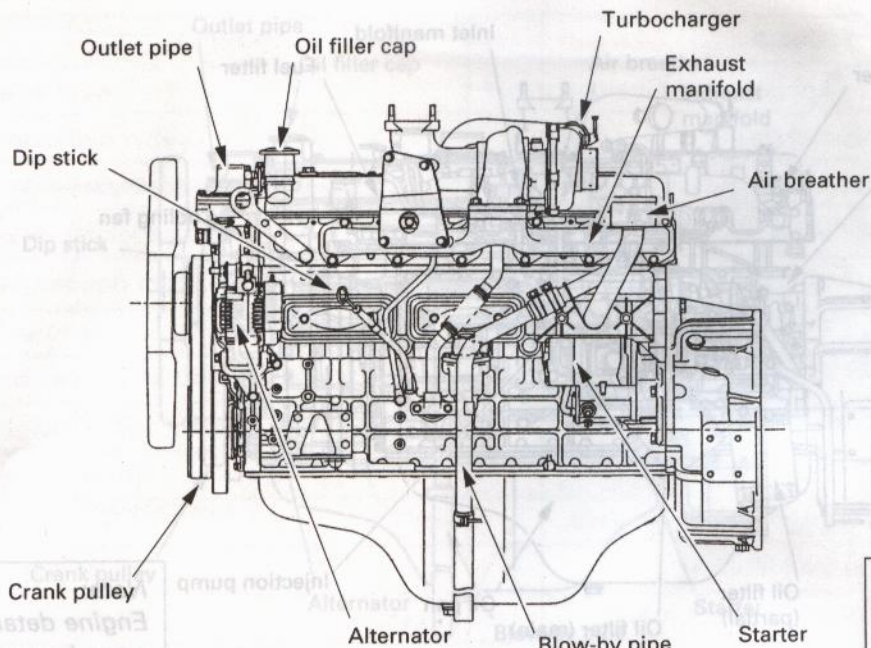
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# 1. ENGINE EXTERNAL VIEWS

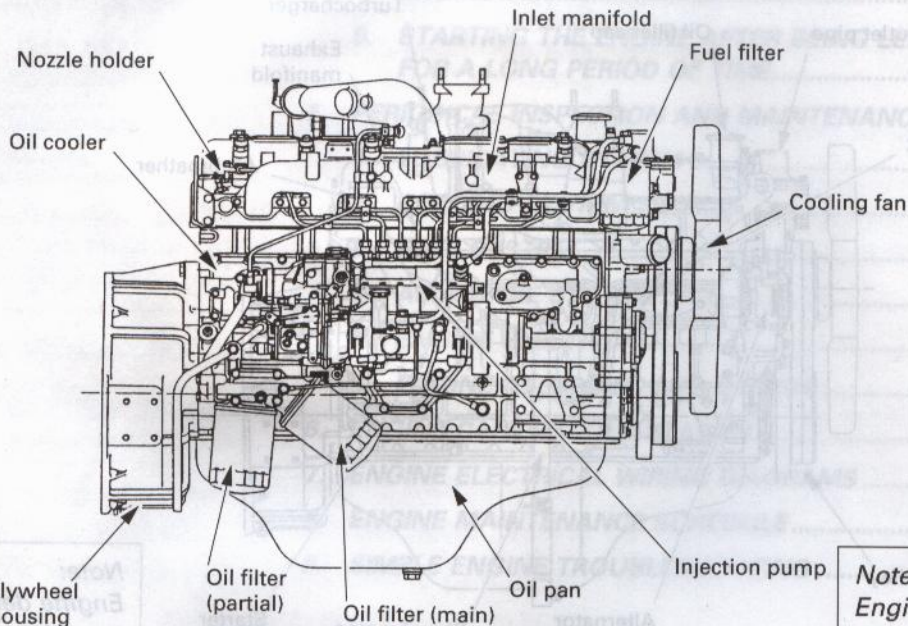
## 1. A-6BG1T EXTERNAL VIEW (LH)



**Note:**  
Engine details may vary depending on the specifications.

Fig. 1

## 2. A-6BG1T EXTERNAL VIEW (RH)



**Note:**  
Engine details may vary depending on the specifications.

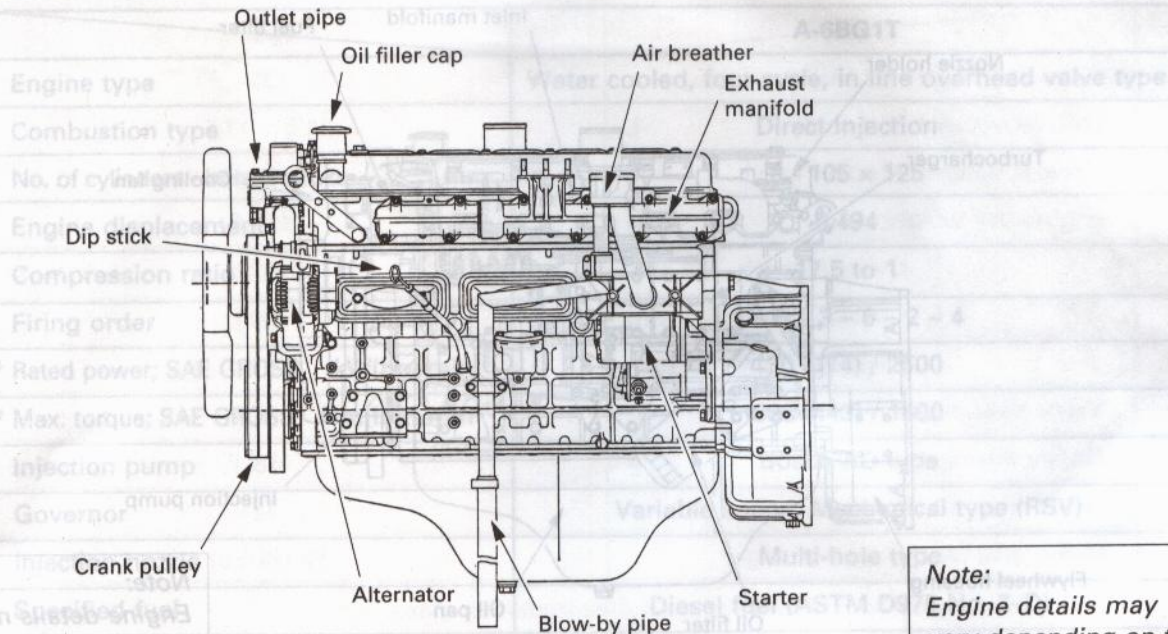
Fig. 2

## 2. GENERAL INFORMATION

### 3. A-6BG1 EXTERNAL VIEW (LH)

(1) Model A-6BG1T

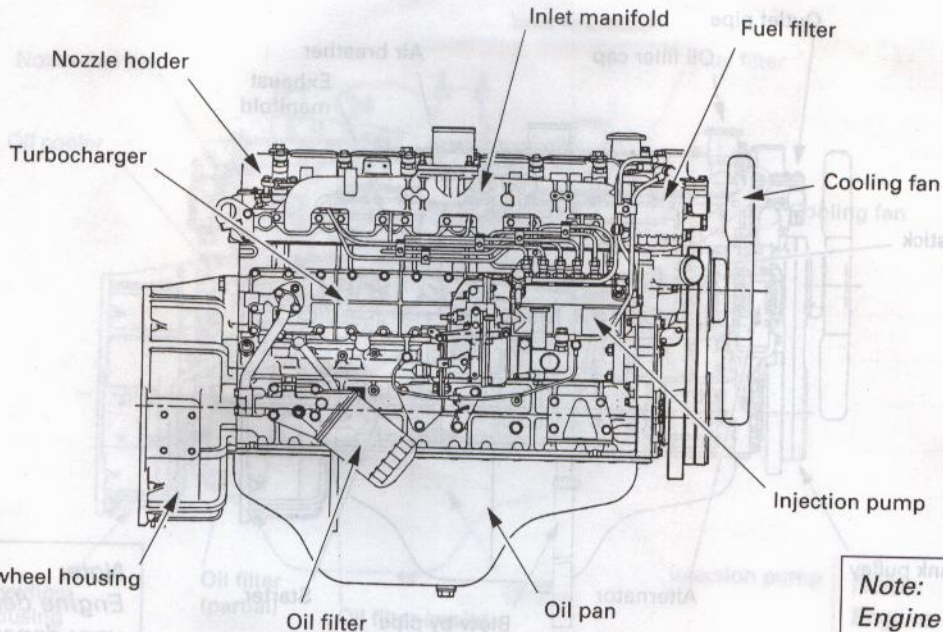
Exp. STD spec



**Note:**  
Engine details may vary depending on the specifications.

Fig. 3

#### 4. A-6BG1 EXTERNAL VIEW (RH)



**Note:**  
Engine details may vary depending on the specifications.

Fig. 4



## 2. GENERAL INFORMATION

### 1. STANDARD ENGINE DATA AND SPECIFICATIONS

#### (1) Model A-6BG1T

Exp. STD spec

	A-6BG1T
Engine type	Water cooled, four cycle, in line overhead valve type
Combustion type	Direct injection
No. of cylinders - bore × stroke      mm	6 - 105 × 125
Engine displacement      L	6.494
Compression ratio	17.5 to 1
Firing order	1 - 5 - 3 - 6 - 2 - 4
* Rated power; SAE GROSS    kW(hp)/min <sup>-1</sup>	130 (174) / 2500
* Max. torque; SAE GROSS    Nm(lbft)/min <sup>-1</sup>	600 (443) / 1800
Injection pump	Bosch AD type
Governor	Variable speed, Mechanical type (RSV)
Injection nozzle	Multi-hole type
Specified fuel	Diesel fuel (ASTM D975 No. 2-D)
* Starter      V-kW	12 - 2.5
* Alternator      V-A	12 - 60



1. STANDARD ENGINE DATA AND SPECIFICATIONS (R1) Model A-6BG1T

Exp. STD spec

(1) Model A-6BG1T

		A-6BG1T	
Specified engine oil (API grade)		CD	
* Lub. oil volume (Oil pan)	L	21.5 – 17.5	
Coolant volume (Engine only)	L	12.0	
* Engine dry weight	kg	485.0	
* Engine dimensions	Overall length	mm	1082
	Overall width	mm	691
	Overall height	mm	951
Valve clearance (cold)	mm	0.4	
Nozzle injection pressure	MPa	18.1	
* Injection timing B.T.D.C		12°	
Maker and type of turbocharger		IHI (RHE6)	

**NOTE:** 1. These specifications are based on the standard engine.  
 2. Specifications for items marked with an asterisk (\*) will vary according to the type of equipment in which the engine is installed.  
 If you are unable to locate these data applicable to your engine, please contact your equipment supplier.

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## 2. EPA AND CARB CERTIFIED ENGINE DATA AND SPECIFICATIONS

Se reporter à la fin de ce document pour les informations EPA en français.

### (2) Model A-6BG1

Exp. STD spec

		A-6BG1
Engine type		Water cooled, four cycle, in line overhead valve type
Combustion type		Direct injection
No. of cylinders - bore × stroke	mm	6 - 105 × 125
Engine displacement	L	6.494
Compression ratio		17.0 to 1
Firing order		1 - 5 - 3 - 6 - 2 - 4
* Rated power; SAE GROSS	kW(hp)/min <sup>-1</sup>	95.5 (128) / 2500
* Max. torque; SAE GROSS	Nm(lbft)/min <sup>-1</sup>	420 (310) / 1500
Injection pump		Bosch A type
Governor		Variable speed, Mechanical type (RSV)
Injection nozzle		Multi-hole type
Specified fuel		Diesel fuel (ASTM D975 No. 2-D)
* Starter	V-kW	12 - 2.5
* Alternator	V-A	12 - 60

Engine code varies depending on each engine.

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