



The **Toyota 1KZ-TE** is a 3.0 l (2,982 cc, 181.97 cu-in) four cylinders, four-stroke cycle water-cooled turbocharged internal combustion diesel engine, manufactured by the Toyota Motor Corporation. The 1KZ-TE engine has a cast iron block with 96.0 mm (3.78 in) cylinder bores and a 103.0 mm (4.06 in) piston stroke for a capacity of 3.0 l. Compression ratio rating is 21.2:1.

The breakdown of the engine code is as follows:

1 – 1st generation engine
KZ – Engine family
T – Turbocharged
E – Electronic fuel injection

ENGINE SPECIFICATIONS

Engine code	1KZ-TE
Layout	Straight-4, vertical
Fuel type	Diesel
Production	1993-2006
Displacement	3.0 L, 2,982 cm ³ (181.97 cu in)
Injection pump	Electronically controlled
Power adder	Toyota CT12B
Horsepower net	130 PS (96 kW; 120 HP) at 3,600 rpm 140 PS (103 kW; 138 HP) at 3,600 rpm 147 PS (108 kW; 145 HP) at 3,600 rpm
Torque output	289 Nm (29.5 kg-m; 213.3 ft-lb) at 2,000 rpm 295 Nm (30.0 kg-m; 217.7 ft-lb) at 2,400 rpm 232 Nm (23.7 kg-m; 171.2 ft-lb) at 2,000 rpm 334 Nm (34.0 kg-m; 246.5 ft-lb) at 2,000 rpm 343 Nm (35.0 kg-m; 253.1 ft-lb) at 2,000 rpm
Firing (injection) order	1-3-4-2

MAINTENANCE DATA

Valve clearance (Cold)	
Intake valve	0.20-0.30 mm (0.008-0.012 in)
Exhaust valve	0.25-0.35 mm (0.010-0.014 in)
Compression pressure	
Standard	31.0 kg/cm ² (3,040 kPa, 441 psi)
Minimum	20.0 kg/cm ² (1,961 kPa, 284 psi)
Compression differential limit between cylinders	5.0 kg/cm ² (490 kPa, 71 psi)
Oil system	
Recommended engine oil	10W-30 or 10W-40 ("CF", "CE", "CD") Dry fill: 7.5 L (7.9 US qt, 6.6 imp. qt) With oil filter change: 7.0 L (7.4 US qt, 6.2 imp. qt) Without oil filter change: 6.4 L (6.8 US qt, 5.6 imp. qt)
Engine oil capacity	
Oil pressure	Idle speed: 0.3 kgf/cm ² (29 kPa, 4.3 psi) At 3,000 rpm: 2.5 kgf/cm ² (245 kPa, 33 psi)
Fuel system	
Injection nozzle opening pressure	New nozzle: 151-159 kgf/cm ² (14,800-15,590 kPa, 2,150-2,260 psi)
	Reused nozzle: 146-154 kgf/cm ² (14,300-15,100 kPa, 2,080-2,190 psi)
	Adjusted pressure*: 145-155 kgf/cm ² (14,220-15,200 kPa, 2,060-2,200 psi)
* - Varying the adjusting shim thickness by 0.025 mm (0.0010 in) changes the injection pressure by about 4.8 kgf/cm ² (470 kPa, 68 psi).	

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Table of Contents 1kz Torque Specs

1. Understanding the eBook 1kz Torque Specs
 - The Rise of Digital Reading 1kz Torque Specs
 - Advantages of eBooks Over Traditional Books
2. Identifying 1kz Torque Specs
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 1kz Torque Specs
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1kz Torque Specs
 - Personalized Recommendations
 - 1kz Torque Specs User Reviews and Ratings
 - 1kz Torque Specs and Bestseller Lists
5. Accessing 1kz Torque Specs Free and Paid eBooks
 - 1kz Torque Specs Public Domain eBooks
 - 1kz Torque Specs eBook Subscription Services
 - 1kz Torque Specs Budget-Friendly Options

6. Navigating 1kz Torque Specs eBook Formats
 - ePub, PDF, MOBI, and More
 - 1kz Torque Specs Compatibility with Devices
 - 1kz Torque Specs Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1kz Torque Specs
 - Highlighting and Note-Taking 1kz Torque Specs
 - Interactive Elements 1kz Torque Specs
8. Staying Engaged with 1kz Torque Specs
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1kz Torque Specs
9. Balancing eBooks and Physical Books 1kz Torque Specs
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1kz Torque Specs
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 1kz Torque Specs
 - Setting Reading Goals 1kz Torque Specs
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 1kz Torque Specs
 - Fact-Checking eBook Content of 1kz Torque Specs
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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