

## 1.5 TORQUE SPECIFICATIONS

Screws, bolts and nuts must be tightened to the specified torque using a torque wrench. Several screws, bolts and nuts such as those used on the cylinder head must be tightened in the proper sequence and at the proper torque.

### 1.5.1 Torque Specifications For Special Use Screws, Bolts and Nuts

In removing and applying the screws, bolts and nuts marked with "\*", a pneumatic wrench or similar tool, if employed, must be used with care. Failure to do so may result in stripped or seized screws, bolts and nuts.

When replacing "\*" marked screws, bolt and nuts, apply engine oil to their threads and seats before reassembly.

The letter "M" in size and pitch means that the screw, bolt or nut dimension is metric. The size is the nominal outside diameter in mm of the threads. The pitch is the nominal distance in mm between two threads.

Item	Size x Pitch	N.m	kgf.m	ft-lbs
Cylinder Head Cover Bolt	M6 x 1.0	6.9 to 11.3	0.7 to 1.15	5.1 to 8.32
*Cylinder Head Bolt	M11 x 1.25	93.1 to 98.0	9.5 to 10.0	68.7 to 72.3
*Main Bearing Case Bolt 1	M9 x 1.25	46.1 to 50.9	4.7 to 5.2	34.0 to 37.6
*Main Bearing Case Bolt 2	M10 x 1.25	68.6 to 73.5	7.0 to 7.5	50.6 to 54.2
*Flywheel Bolt	M12 x 1.25	98.09 to 107.8	10.0 to 11.0	72.3 to 79.5
*Connecting Rod Bolt	M8 x 1.0	44.1 to 49.0	4.5 to 5.0	32.5 to 36.2
*Rocker Arm Bracket Bolt	M8 x 1.25	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
*Idle Gear Shaft Bolt	M8 x 1.25	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Crank Pulley Mounting Nut	-	137.3 to 156.9	14.0 to 16.0	101.3 to 115.7
*Bearing Case Cover Bolt	M8 x 1.25	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Glow Plug	M10 x 1.25	19.6 to 24.5	2.0 to 2.5	14.5 to 18.1
Nozzle Holder Clamp Bolt	-	25.5 to 29.4	2.6 to 3.0	18.8 to 21.7
Oil Switch Taper Bolt	PT1/8	14.7 to 19.6	1.5 to 2.0	10.8 to 14.5
Injection Pipe Retaining Nut	M12 x 1.5	14.7 to 24.5	1.5 to 2.5	10.8 to 18.1
Overflow Pipe Assembly Retaining Bolt	-	9.8 to 11.3	1.0 to 1.15	7.2 to 8.3
Camshaft Retaining Bolt	M8 x 1.25	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Hi-idling Body	-	44.1 to 49.0	4.5 to 5.0	32.6 to 36.3

### 1.5.2 Torque Specifications For General Use Screws, Bolts and Nuts

	Standard Screw and Bolt Grade 4			Special Screw and Bolt Grade 7		
	N.m	kgf.m	ft-lbs	N.m	kgf.m	ft-lbs
M6	7.9 to 9.3	0.80 to 0.95	5.8 to 6.9	9.8 to 11.3	1.00 to 1.15	7.23 to 8.32
M8	17.7 to 20.6	1.8 to 2.1	13.0 to 15.2	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
M10	39.2 to 45.1	4.0 to 4.6	28.9 to 33.3	48.1 to 55.9	4.9 to 5.7	35.4 to 41.2
M12	62.8 to 72.6	6.4 to 7.4	46.3 to 53.5	77.5 to 90.2	7.9 to 9.2	57.1 to 66.5

Screw and bolt material grades are shown by numbers punched on the screw and bolt heads. Prior to tightening, be sure to check out the numbers as shown below

Punched Number	Screw And Bolt Material Grade
None or 4	Standard Screw And Bolt S400, S20C
7	Special Screw And Bolt S43C, S48C (Refined)

# Kubota Engine Torque Specs

**G Orfield**



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### **Table of Contents Kubota Engine Torque Specs**

1. Understanding the eBook Kubota Engine Torque Specs
  - The Rise of Digital Reading Kubota Engine Torque Specs
  - Advantages of eBooks Over Traditional Books
2. Identifying Kubota Engine 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 Kubota Engine Torque Specs
  - User-Friendly Interface
4. Exploring eBook Recommendations from Kubota Engine Torque Specs
  - Personalized Recommendations

- Kubota Engine Torque Specs User Reviews and Ratings
- Kubota Engine Torque Specs and Bestseller Lists
- 5. Accessing Kubota Engine Torque Specs Free and Paid eBooks
  - Kubota Engine Torque Specs Public Domain eBooks
  - Kubota Engine Torque Specs eBook Subscription Services
  - Kubota Engine Torque Specs Budget-Friendly Options
- 6. Navigating Kubota Engine Torque Specs eBook Formats
  - ePub, PDF, MOBI, and More
  - Kubota Engine Torque Specs Compatibility with Devices
  - Kubota Engine Torque Specs Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Kubota Engine Torque Specs
  - Highlighting and Note-Taking Kubota Engine Torque Specs
  - Interactive Elements Kubota Engine Torque Specs
- 8. Staying Engaged with Kubota Engine Torque Specs
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Kubota Engine Torque Specs
- 9. Balancing eBooks and Physical Books Kubota Engine Torque Specs
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Kubota Engine Torque Specs
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Kubota Engine Torque Specs
  - Setting Reading Goals Kubota Engine Torque Specs
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Kubota Engine Torque Specs
  - Fact-Checking eBook Content of Kubota Engine 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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