

# Nissan Maxima A33 1999-2005 Workshop Manual

## CYLINDER BLOCK

Inspection/Control

- Measure outer diameter of piston pin "Cp".  
Standard (diameter "Dp")  
Grade No. 0  
21.989 - 21.995 mm (0.8657 - 0.8680 in)  
Grade No. 1  
21.995 - 21.997 mm (0.8680 - 0.8682 in)
- Calculate interference fit of piston pin to piston.  
 $Dp - dp = 0.002 - 0.004$  mm (0.0001 - 0.0002 in)  
If it exceeds the above value, replace piston assembly with pin.

## PISTON RING SIDE CLEARANCE

Side clearance:

Ring	Engine	Standard	Limit
Top ring	VQ30DE	0.040 - 0.040 mm (0.0016 - 0.0016 in)	0.10 mm (0.0040 in)
	VQ30DE	0.040 - 0.040 mm (0.0016 - 0.0016 in)	0.10 mm (0.0040 in)
2nd ring	VQ30DE	0.030 - 0.070 mm (0.0012 - 0.0028 in)	0.10 mm (0.0040 in)
	VQ30DE	0.030 - 0.070 mm (0.0012 - 0.0028 in)	0.10 mm (0.0040 in)
Oil ring	VQ30DE	0.095 - 0.130 mm (0.0038 - 0.0051 in)	—
	VQ30DE	0.095 - 0.130 mm (0.0038 - 0.0051 in)	—

If out of specification, replace piston ring. If clearance is at maximum limit with new ring, replace piston.

## PISTON RING END GAP

End gap:

Ring	Engine	Standard	Limit
Top ring	VQ30DE	0.30 - 0.40 mm (0.0118 - 0.0157 in)	0.51 mm (0.0201 in)
	VQ30DE	0.30 - 0.40 mm (0.0118 - 0.0157 in)	0.51 mm (0.0201 in)
2nd ring	VQ30DE	0.30 - 0.40 mm (0.0118 - 0.0157 in)	0.51 mm (0.0201 in)
	VQ30DE	0.30 - 0.40 mm (0.0118 - 0.0157 in)	0.51 mm (0.0201 in)
Oil ring	VQ30DE	0.30 - 0.40 mm (0.0118 - 0.0157 in)	0.45 mm (0.0177 in)
	VQ30DE	0.30 - 0.40 mm (0.0118 - 0.0157 in)	0.45 mm (0.0177 in)

If out of specification, replace piston ring. If gap still exceeds the limit even with a new ring, do the following. Refinish cylinder and use oversized piston and piston rings.  
Refer to SOG (EM-62).

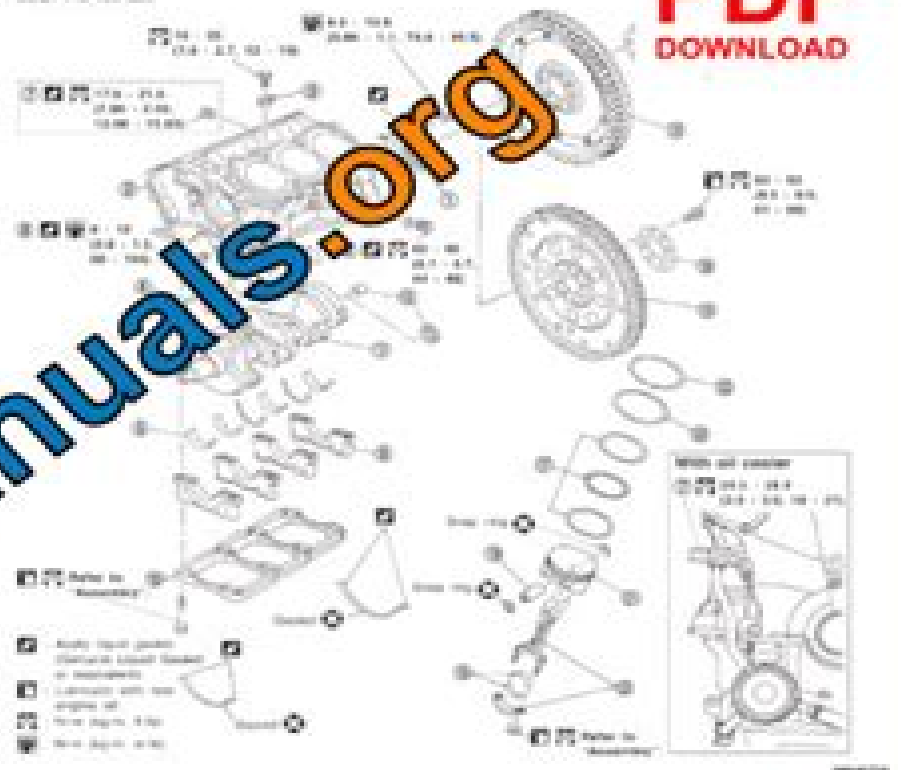
- When replacing the piston, check the cylinder block surface for scratches or seizure. If scratches or seizure is found, hone or

## CYLINDER BLOCK

Components

## Components

SPEC. 110-120-020



1. Rear of rear intake
2. Cylinder block
3. Knuckle sensor
4. Upper main bearing
5. Lower main bearing
6. Water drain plug (LH side)
7. Water drain plug (RH side)
8. Water drain plug (water pump side)
9. Main bearing cap
10. Main bearing beam
11. Crankshaft
12. Piston bushing or pilot connector
13. Flywheel with signal plate (AT model)
14. Drive plate with signal plate (AT model)
15. Flywheel reinforcement
16. Drive plate reinforcement
17. Oil ring
18. Piston pin
19. Connecting rod bearing
20. Connecting rod
21. Piston
22. Top ring
23. 2nd ring

# **Nissan Maxima 1994 1999 Repair Manual**

**Thirumalaisamy P.  
Velavancorresponding**



## **Nissan Maxima 1994 1999 Repair Manual:**

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## **Table of Contents Nissan Maxima 1994 1999 Repair Manual**

1. Understanding the eBook Nissan Maxima 1994 1999 Repair Manual
  - The Rise of Digital Reading Nissan Maxima 1994 1999 Repair Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Nissan Maxima 1994 1999 Repair Manual
  - 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 Nissan Maxima 1994 1999 Repair Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nissan Maxima 1994 1999 Repair Manual
  - Personalized Recommendations
  - Nissan Maxima 1994 1999 Repair Manual User Reviews and Ratings
  - Nissan Maxima 1994 1999 Repair Manual and Bestseller Lists
5. Accessing Nissan Maxima 1994 1999 Repair Manual Free and Paid eBooks
  - Nissan Maxima 1994 1999 Repair Manual Public Domain eBooks
  - Nissan Maxima 1994 1999 Repair Manual eBook Subscription Services
  - Nissan Maxima 1994 1999 Repair Manual Budget-Friendly Options

6. Navigating Nissan Maxima 1994 1999 Repair Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Nissan Maxima 1994 1999 Repair Manual Compatibility with Devices
  - Nissan Maxima 1994 1999 Repair Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nissan Maxima 1994 1999 Repair Manual
  - Highlighting and Note-Taking Nissan Maxima 1994 1999 Repair Manual
  - Interactive Elements Nissan Maxima 1994 1999 Repair Manual
8. Staying Engaged with Nissan Maxima 1994 1999 Repair Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nissan Maxima 1994 1999 Repair Manual
9. Balancing eBooks and Physical Books Nissan Maxima 1994 1999 Repair Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nissan Maxima 1994 1999 Repair Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Nissan Maxima 1994 1999 Repair Manual
  - Setting Reading Goals Nissan Maxima 1994 1999 Repair Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nissan Maxima 1994 1999 Repair Manual
  - Fact-Checking eBook Content of Nissan Maxima 1994 1999 Repair Manual
  - 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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