

# VOLVO BM 646

## Contents

### Group 00 General

Specifications	1
Major subassemblies	1
Tightening torques	6
Special tools	9
General	11
Engine, removal and installation	11

### Group 01 Engine Assembly

Construction and Function	26
Service Procedures	
Cylinder head	31
Cylinder block	34
Cylinder liners	37
Valve mechanism	39
Timing gears	41
Crank mechanism	43

### Group 02 Lubricating System

Construction and Function	51
Service Procedures	
Oil pump, over	56
Oil cooler	57
Oil filter	58

### Group 04 Fuel System

Construction and Function	66
Service Procedures	
Injection pump	67
Injectors	71
Fuel pump	73
Fuel filter	74
Air cleaner	74

### Group 05 Intake and Exhaust Systems

Construction and Function	77
Service Procedures	
Timing valve	81
Exhaust pressure gauges	82

### Group 06 Cooling System

Construction and Function	86
Service Procedures	
Coolant, etc.	86
Thermostat, coolant pump	88
Thermostat fan	89

### Group 08 Turbo-Compressor

Construction and Function	95
Service Procedures	
Checking the charging pressure, etc.	96
Overhauling the turbo-compressor	97
Refuelling turbo-compressor oil, engine	102

### Manifolds

- 1 Fuel system, F96
- 2 Fuel system, B7
- 3 Cooling system, F96
- 4 Cooling system, B7
- 5 Turbo-compressor, A850000

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### Main bearing shells

General: bearing shell location in block

Thickness: standard	2107-2108 mm (82 9/16-82 1/8")
undersize 0.010"	2054-2061 mm (80 9/16-81 1/8")
0.020"	2104-2108 mm (82 1/8-82 1/8")
0.030"	2099-2110 mm (82 3/8-82 1/8")
0.040"	2105-2107 mm (82 1/8-82 1/8")
0.050"	2105-2109 mm (82 1/8-82 1/8")

### Big-end bearings

#### Connecting rod pins

Big-end bearing, rod pin clearance	0.008-0.104 mm (0.0003-0.0041")
Bearing pin length	40.000-40.080 mm (1.5748-1.5821")
General: standard	1.000-1.011 mm (0.0394-0.0398")
undersize 0.010"	2.000-2.008 mm (0.0787-0.0791")
0.020"	2.155-2.160 mm (0.0848-0.0851")
0.030-0.290"	2.086-2.290 mm (0.0818-0.0902")
0.475-0.478 mm	0.0187-0.0188"
0.540-0.540 mm	0.0213-0.0213"

#### Connecting rod shells

Thickness: standard	66.007-66.008 mm (2.5983-2.5987")
undersize 0.010"	65.995-66.000 mm (2.5943-2.5983")
0.020"	65.975-66.000 mm (2.5937-2.5983")
0.030"	65.975-66.000 mm (2.5937-2.5983")
0.040"	65.975-66.000 mm (2.5937-2.5983")
0.050"	65.967-66.000 mm (2.5935-2.5983")

### Connecting rods

Marked 1 to 6 "16047" marking on steel flange forward

Provided with replaceable bearing shells

General: connecting rod bearing bearing seat	66.007-66.008 mm (2.5983-2.5987")
bearing shell bearing seat	75.140-75.152 mm (2.9571-2.9587")
pin/bush pin bearing	See bearing "bush/pin pair"
rod clearance: connecting rod - crankshaft	0.16-0.26 mm (0.0063-0.0101")

### Plywheel, fitted

Max. permissible axial force measuring radius 190 mm ± 6"

0.16 mm (0.0063")
140 mm

### Plywheel casing, fitted

Max. permissible axial force for contact surface against crank casing

0.16 mm (0.0063")
Max. 4.25 mm (0.1673")

### Crankshaft

Size	See
Number of bearings	7
First bearing pin, standard	40.000-40.075 mm (1.5748-1.5821")
2nd bearing pin, standard	40.021-40.040 mm (1.5829-1.5839")
3rd bearing pin, standard	40.025-40.050 mm (1.5839-1.5897")
4th bearing pin, standard	40.040-40.060 mm (1.5897-1.5897")

# Volvo Td42 Service Manual

**R Barnett**



## **Volvo Td42 Service Manual:**

*Volvo Service Manual* Volvo, Aktiebolaget,1962      **Volvo S40 and V50 Diesel Owner's Workshop Manual, 07-13**  
Chris Randall,2016-10      **Trucks Service Manual** Aktiebolaget Volvo.,1974      **Volvo S40 and V50 Diesel (07-13) 07 to 62** Chris Randall,2013-01-01 Part of the Haynes Service and Repair Manual Series this title covers Volvo S40 and V50 diesel cars made between 2007 and 2013      **Volvo 400 Series Service and Repair Manual** A. K. Legg,1999 Hatchback Saloon Coupe inc Turbo special limited editions Petrol 1 6 litre 1596cc 1 7 litre 1721cc 1 8 litre 1794cc 2 0 litre 1998cc      *Volvo Service Manual* Volvo, Aktiebolaget,1966      **Engine D 100, TD 100** ,1974      **Volvo 240 Service Manual** Bentley Publishers,2011-04 The Volvo 240 Service Manual 1983 1993 is a comprehensive source of service information and specifications for Volvo 240 and other Volvo 200 series cars built from model years 1983 through 1993 Whether you re a professional technician or a do it yourself Volvo owner this manual will help you understand maintain and repair systems on the Volvo 240 Volvo 200 series and 240 models covered in this repair manual 1983 1985 DL GL 1983 1985 Turbo 1986 1993 240 240 DL Volvo 200 series and 240 gasoline engines covered in this repair manual B21F B21F T Turbo B23F B230F

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*Volvo F/G 89 Service Manual* Volvo,197?      **Volvo Td42 4786239 Turbocharger Rebuild Guide and Shop Manual** Brian Smothers,2015-01-19 This shop manual covers the proper disassembly inspection rework assembly and installation of the 4786239 turbocharger found on the Volvo TD42 engines Written by an industry professional this book contains full color photos diagrams torque specs and best practices Repairing your vehicle s turbocharger is easy and cost effective if you know how This shop manual covers Garrett Honeywell T04B61 465062 0001 465062 9001 465062 5001 465062 1 Turbochargers

**Volvo S40 and V50 Petrol and Diesel Service and Repair Manual** Martynn Randall,2008 S40 Saloon V50 Estate inc special limited editions Does NOT cover Classic T5 or AWD four wheel drive models or facelifted range introduced July 2007 Petrol 1 8 litre 1798cc 2 0 litre 1999cc 2 4 litre 2435cc Does NOT cover 1 6 litre or 2 5 litre petrol engines Turbo Diesel 2 0 litre 1988cc Does NOT cover 1 6 litre or 2 4 litre diesel engines      *Volvo service manual* ,1983      **Volvo Td42 4787199 Turbocharger Rebuild Guide and Shop Manual** Brian Smothers,2015-01-19 This shop manual covers the proper disassembly inspection rework assembly and installation of the 4787199 turbocharger found on the Volvo TD42 engines Written by an industry professional this book contains full color photos diagrams torque specs and best practices Repairing your vehicle s turbocharger is easy and cost effective if you know how This shop manual covers Garrett Honeywell T04B7 465204 0001 465204 9001 465204 5001 465204 1 Turbochargers      *Volvo Service* Volvo, Aktiebolaget,1970\*

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## **Table of Contents Volvo Td42 Service Manual**

1. Understanding the eBook Volvo Td42 Service Manual
  - The Rise of Digital Reading Volvo Td42 Service Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Volvo Td42 Service 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 Volvo Td42 Service Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Volvo Td42 Service Manual
  - Personalized Recommendations
  - Volvo Td42 Service Manual User Reviews and Ratings
  - Volvo Td42 Service Manual and Bestseller Lists

5. Accessing Volvo Td42 Service Manual Free and Paid eBooks
  - Volvo Td42 Service Manual Public Domain eBooks
  - Volvo Td42 Service Manual eBook Subscription Services
  - Volvo Td42 Service Manual Budget-Friendly Options
6. Navigating Volvo Td42 Service Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Volvo Td42 Service Manual Compatibility with Devices
  - Volvo Td42 Service Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Volvo Td42 Service Manual
  - Highlighting and Note-Taking Volvo Td42 Service Manual
  - Interactive Elements Volvo Td42 Service Manual
8. Staying Engaged with Volvo Td42 Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Volvo Td42 Service Manual
9. Balancing eBooks and Physical Books Volvo Td42 Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Volvo Td42 Service Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Volvo Td42 Service Manual
  - Setting Reading Goals Volvo Td42 Service Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Volvo Td42 Service Manual
  - Fact-Checking eBook Content of Volvo Td42 Service 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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