

VALEO SPRINTER ALTERNATOR Power to Spare



BY BOB THOMAS

It has been nearly 15 years since Daimler-Benz introduced Sprinter cargo vans to the US market, at first exclusively through Freightliner dealerships. Sprinters were also offered under the Dodge brand beginning in 2000. Since the Benz-Chrysler breakup, Sprinters sales have been handed over to Mercedes dealerships while Freightliner continues to handle all commercial chassis sales.

It is no wonder that Sprinter vans have become a familiar sight nearly everywhere in North America. Well over 200,000 have been sold in the US alone and another 30,000 in Canada. The vast majority are being used in commercial service of one type or another. While several different alternators have been used on the North American models, one has become a familiar sight to rebuilders – Valeo TG23C019 or Lester 11457.

It is a 220 amp unit (see Figures 1, 2 and 3) with four bolt pad mounting and a seven-groove clutch pulley. It was installed as a popular option beginning in 2007. In 2010, a nearly identical 180 amp version, TG17C030B (Lester 11306), became standard equipment while the higher amperage TG23C019 continued as an option.

Both alternators are self-exciting with the regulator's voltage set point being controlled by the PCM through the van's data network. While you can bench test these alternators in default mode, you cannot test complete regulator function without a test lead or apparatus that can mimic the LIN communication recognized by this regulator.

The price of these test tools has come down in recent years. Rebuilding one or two of these alternators can easily pay for the tool which will allow you to test other alternators that are using network communication technology. A recent online price check prior to this writing revealed that this 220A Valeo alternator is being sold for prices that start above \$500.



Figure 1 – This Valeo alternator (TG23C019) for Sprinter vans can provide up to 220 amps of power. It uses a 7-groove clutch pulley.



Figure 2 – The battery post (shown here at 3:00) is 8mm. The single-pin harness connection at 12:00 receives LIN communication from the PCM.



Figure 3 – This side view shows that the pad-mount bolt locations are not in a square pattern, making test bench mounting a challenge.



Figure 4 – This Valeo rotor has eight permanent magnets that are spaced in four evenly spaced locations around the rotor.

Volvo Valeo Alternator Manual

Volvo Penta



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The Motorboat Electrical and Electronics Manual John C. Payne, 2002 Motorboat Electrical and Electronics Manual covers all inboard engine boats from 20 to 120 coastal inshore and blue water vessels This complete guide to the electrical systems and the electronics for large and small pleasure boats and workboats is a must for all builders owners and operators whether they are concerned with new boats or older boats and their maintenance and upgrading Topics cover everything from diesel engines to refrigeration and lightning protection to batteries and metal corrosion **Seloc's Volvo Penta Stern Drive** Joan Coles, Clarence W. Coles, 1984 Automotive News , Plastics in European Cars, 2000-2008 I. G. Helps, 2001 This report examines the application of plastics in European cars in the middle of the year 2000 It evaluates the changes in use and considers possible developments over the next decade The use of plastics for specific components is examined comparison is made between competitive materials and examples of commercial application are included Estimates are presented for current plastics usage in European cars with forecasts to 2008 **Factory Approved Alternator Service Manual** Cecil R. Dodd, 1988 *Factory Approved Alternator Service Manual* , 1984 Volvo 1944-1968 Workshop Manual Pv444, Pv544 (P110), P1800, Pv445, P122 (P120 & Amazon), P210, P130, P220, 144, 142 & 145 Floyd Clymer, 2008-06 Covers the Volkswagen 1200 1968 77 1300 and 1300A 1968 1975 1500 1968 1970 1302 1285cc 1970 1972 1302S and LS 1584cc 1970 1972 1303 1285cc 1972 1975 Karmann Ghia 1968 1974 **The Alternator Service Manual** Glentrade (Firm), 1976 Workshop Manual Engine Volvo, Peugeot, Renault, de Lorean Volvo B28, 2009 Complete Handbook for the V6 Europe Engine Peugeot Volvo Renault Alpine De Lorean and others **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 **Alternator Service Manual** , 1969 *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 PENTA MD 5** Volvo Penta, 2015-04-13 **Volvo S40 and V50 Diesel Owner's Workshop Manual, 07-13** Chris Randall, 2016-10 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 *Volvo Service Manual* Volvo Car Corporation, 1991 **Alternator Service Manual** , 1967 **Volvo F/G 89 Service Manual** Volvo, 197? *Volvo 850 Service and Repair Manual* John S. Mead, 2015

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Table of Contents Volvo Valeo Alternator Manual

1. Understanding the eBook Volvo Valeo Alternator Manual
 - The Rise of Digital Reading Volvo Valeo Alternator Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Volvo Valeo Alternator 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 Valeo Alternator Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Volvo Valeo Alternator Manual
 - Personalized Recommendations
 - Volvo Valeo Alternator Manual User Reviews and Ratings
 - Volvo Valeo Alternator Manual and Bestseller Lists
5. Accessing Volvo Valeo Alternator Manual Free and Paid eBooks
 - Volvo Valeo Alternator Manual Public Domain eBooks
 - Volvo Valeo Alternator Manual eBook Subscription Services
 - Volvo Valeo Alternator Manual Budget-Friendly Options
6. Navigating Volvo Valeo Alternator Manual eBook Formats

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