

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.

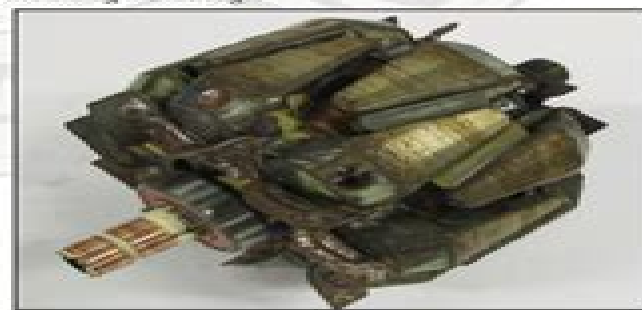


Figure 4 – This Valeo rotor has eight permanent magnets that are spaced in four evenly spaced locations around the rotor.

Valeo Alternator Manual

RM Cervero



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