

Service-Information Motorcycle



©BMW of N.A.
Service Department

Group: 12

March 1990

Engine
Electric

12 014 90
(2400)

For USA Only

Countershaft-type Starter - Valeo Technical Instruction for Flat-Twin Models

- Complaint:**
1. Starter motor continues to run after start-up sequence and after ignition has been turned off.
 2. Starter makes "chattering" noises when engaging (usually when engine is cold).

- Causes:**
1. If the engine's wiring harness is laid incorrectly (on right-hand side between the frame and ignition coil), this can result in chafing and a short circuit to ground at terminal 50.
 2. The effect of tolerances within the engaging mechanism and vibration can result in such noise. This is a minor flaw only, and does not restrict performance.

- Remedies:**
1. If a complaint is lodged, check the engine's wiring harness and, if need be, exchange it and run it on the left-hand side of the frame.
 2. In the event of very serious complaints, it may be necessary to exchange the starter motor.

Note: The countershaft-type starter can be retrofitted to all flat-twin models from model year 1977 on. The rear retaining plate is no longer required. On models as of 1985 (in the case of the R45 and R65, as of 1981 in the case of R80G/S and ST, from the start of production), it is essential that the relay be exchanged for the updated version.

Very truly yours,

BMW of North America, Inc.

Frank Stevens
National Service Manager
Motorcycle Group

Richard Dampf
National Technical Manager

FS:je1/234.7

Please initial and route to the following before filing

Service	Parts	Sales	Warranty	Technicians
---------	-------	-------	----------	-------------