

Service Bulletin

Date: May 2004

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BMW Motorcycles

Subject: BMS-C control unit / fuel injector valve combinations, F 650 GS and F 650 GS Dakar.

Details: The following tables are a summary of the various software versions for the BMS-C control unit.

Vehicle Identification: The use of the new fuel injector valve (part number: 13 71 1 342 366) in F series production started with the following VINs.

Operating Manager
Sales Department
Accessory Department
Parts Department
Service Department
Ref.:13 20/2003

Model	VIN
F 650 GS	ZE 46081
F 650 GS Dakar	ZF 70476

BMS-C control unit software / fuel injector valve combinations.

	BMW Part Number	Bosch Part Number	Program / Data Identification	Recommended Octane (RON + MON/2)
Injector Valve (old):	13 54 7 652 159	0 280 156 026	6000 3604	95
			6000 3614	95
			7000 3609	95
			8000 3609	95
Injector Valve (new):	13 71 1 342 366	0 280 155 788	7000 3604	95
			7000 3607	91
			8000 3604	95
			8000 3607	91

Important Note: The Bosch part number can be read directly off the body of the fuel injector valve.

Ensure that you always have the correct combination of program data and injection valve.

Additional Information: When addressing customer concerns about driveability issues, please keep these in mind:

1) The new injection valve is not the primary factor influencing how the motorcycle will perform. Rather, the correct combination of BMS-C software program and injector, plus proper tuning of the motorcycle will optimize driveability.

2) Engine performance at wide open throttle is the same for all of the software versions. The only changes that have been implemented affected part throttle operation.

3) Turning the throttle-valve potentiometer does not have any influence on the engine's operating characteristics. After a very short time, the BMS-C control unit recalibrates itself to recognize the new baseline position.



4) Disconnecting the battery of the BMS-C control unit does not cause any data to be deleted. All data, adaptation values, and contents of the fault memory remain intact.

5) There are some aftermarket devices that will directly affect air/fuel mixtures. Under most circumstances, a richer fuel mixture will cause an engine to run smoother. However, exhaust emissions are increased and fuel economy will suffer. Customers are advised that the installation of these devices may be illegal for vehicles used on-road. In addition, any damage to their BMW Motorcycle caused by these devices will void coverage provided by the 36 month / 36,000 mile Limited Warranty.

6) Changes in the software in the BMS-C control unit involving reprogramming or an update to more recent data or newer program release does not subject the engine to higher temperature loads.

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