

<u>FAULT CODE</u>	<u>FAULT CODE DESCRIPTION</u>	<u>MODEL</u>	<u>SYMPTOMS</u>	<u>PROBLEM SOLVING</u>	<u>REMEDY</u>
10167	Output stage to electric fuel pump	GS/A 1200	Idling irregular Battles to start Fault appears to start intermittently Bike may start and ride, then will appear to have fuel starvation	This unit is situated on the left side of the tank. It is a little aluminium unit with fins on. Check the o-ring of this unit. Unscrew the unit and check for moisture in the cavity below it. Use moisture repellent spray and contact cleaner to clean this device.	If problem solving does not work then replace the unit.
10218	CAN-Bus Timeout: No communication with KOMBI (Instrument cluster) control unit	GS/A 1200		Test with diagnostic system.	Clear fault code.
10219	CAN-Bus Timeout: no communication with ZFE (Central vehicle electronics) control unit	GS/A 1200	Instrument cluster does not activate properly. Instrument cluster activates partially and then fades away. May start on intermittent occasions	Test with diagnostic system.	If all else fails replace the ZFE control unit. (Very expensive).
10444	Fuse activated for component block 3 (starter relay, Immo (EWS) ring aerial, ignition coils, injectors)	GS/A 1200	There may be a short on the battery terminals or elsewhere. Can happen in conjunction with fault code 10219.	Ensure battery voltage is correct. Tighten battery terminals. Ensure good connection on batter terminals.	Clear fault code.
23955	Front Wheel Speed Sensor: Signal implausible.	GS/A 1200	Possible dirt on sensor. Dirt on wheel where sensor lost contact.	Test with diagnostic system	Clear fault code. Replace sensor if fault code re-

					appears.
23971	Rear wheel speed sensor: Signal implausible	GS/A 1200	Possible dirt on sensor. Dirt on wheel where sensor lost contact.	Test with diagnostic system.	Clear fault code. Replace sensor if fault code re-appears.
24052	Electric System under-voltage	GS/A 1200	Starter motor battles to turn Instrument cluster fades and then reappears.	Check Battery Voltage Check that the alternator is charging battery Check wiring to see that a short is not draining battery power.	Replace battery if it is not charging or Service alternator
24971	Pressure In Front Wheel Circuit To High	GS/A 1200	Check Wheel Pressure!	Release air out of front wheel to the correct pressure.	Clear Fault Code
25193	Internal Control Module Error - Time out message ZFE_2	GS/A 1200	Not sure if there are any symptoms but the fault code was not present when diagnostics were performed.	Fault occurred possibly due low voltage from the battery at some stage	Clear Fault Code
25165	Internal Control Module Error - Main processor reset due to under voltage	GS/A 1200	Not sure if there are any symptoms but the fault code was not present when diagnostics were performed.	Fault occurred possibly due low voltage from the battery at some stage	Clear Fault Code
25193	Brake fluid level to low	GS/A 1200	Check brake fluid levels, front and rear reservoirs.	Test with diagnostic system.	Add brake fluid and clear fault code.
37641	Electrical System (KL30) under voltage	GS/A 1200	Not sure if there are any symptoms but the fault code was not present when diagnostics were performed.	Fault occurred possibly due low voltage from the battery at some stage	Clear Fault Code

41722	Park Light Open Circuit	GS/A 1200	Park light could be faulty	Check connections are secure or replace bulb if faulty.	Clear Fault Code
41724	Main High Beam headlight, open circuit.	R1200RT	Main high beam light could be faulty or have a poor connection.	Check connections are secure or replace bulb if faulty.	Clear Fault Code
41726	Low Beam Headlight 1, open circuit.	R1200RT	Low beam headlight could be faulty or have a poor connection.	Check connections are secure or replace bulb if faulty.	Clear Fault Code
41729	Low Beam Headlight 2, open circuit.	R1200RT	Low beam headlight could be faulty or have a poor connection.	Check connections are secure or replace bulb if faulty.	Clear Fault Code
54104	CAN-Bus: No communication with instrument cluster (Kombi) control unit	GS/A 1200	This fault may occur in conjunction with a faulty ignition.	Test with diagnostic system	Clear Fault Code.
288	Throttle Position Sensor, Internal Fault on Upper or lower Potentiometer Slider.	GS/A 1150	Rough Idling	Measure Voltage, optimum is around 0.36 volts.	Replace potentiometer and set at correct voltage. Clear fault code.
821	Hall Sensor 1, no signal - this fault will always occur if engine is not running or engine is not cranked before reading fault codes.	GS/A 1150	Bike will not run.	Replace sensor!	Replace sensor if fault code cannot be cleared.
901	Hall Sensor 2, no signal - this fault will always occur if engine is not running or engine is not cranked before reading fault codes.	GS/A 1150	Bike will not run.	Replace sensor!	Replace sensor if fault code cannot be cleared.

17163	Front ABS motor defective.	R1150RT	ABS warning light flashing and no power brake function... residual braking only. Depending upon whether front brake (lever) applied or rear brake pedal... sometimes the servo motor would race but no ABS function.	It would be best to have your nearest BMW agent confirm your fault code.	Replace complete ABS unit, which will be very costly. Clear fault codes.
17433	Pressure in rear wheel cylinder to low.	R1150RT	Refer to fault code 17163 for details on symptoms.	It would be best to have your nearest BMW agent confirm your fault code.	Replace complete ABS unit, which will be very costly. Clear fault codes.
277	Engine Coolant Temperature Sensor Malfunction, Short circuit to earth or temperature too low.	GS 650 Dakar	No coolant in system	Check coolant system for leaks. Check all hoses. Check radiator cap. Check water pump seal.	Replace coolant sensor if necessary. Clear fault codes.
304	Oxygen (Lamda) Sensor Circuit Malfunction, No signal or signal intermittent.	GS 650 Dakar	Symptoms not openly evident. Bike may be running rich.	Check and clean connections on wire harness.	If fault persists, check or replace lambda sensor. Clear fault code.
309	Oxygen (Lambda) Sensor Heating Circuit Malfunction, Signal implausible	GS 650 Dakar	Irregular engine operation. Engine will not function properly.	Test with diagnostic system. Reading should alternate between 200mV and 650mV.	Replace Lambda sensor if necessary. Clear Fault Code.
821	Speed Sensor (rpm)	GS 650 Dakar	Irregular speed reading on instruments.	Clean sensor. Make sure the wire is not damaged.	Replace sensor if necessary. Clear Fault Code.
1152	Cooling Fan Motor, signal implausible.	GS 650 Dakar	Cooling fan does not work. Cooling fan works intermittently on activation. Will lead to overheating.	Test with diagnostic system whether the fan works	Replace fan. Clear Fault Code.

821	Crankshaft encoder, short circuit or open circuit.	G450X	Symptoms not openly evident as bike starts and runs.	The fault code was still present.	Cleared Fault Code. Fault did not return.
1592	Stepper motor, throttle valve 2 defective	G450X	Symptoms not openly evident as bike starts and runs.	The fault code was still present.	Cleared Fault Code. Fault did not return.