

E31 Self Diagnostics using the DME Flash Codes

1. Sit in Drivers Seat
2. Turn the ignition to the "on" position - do not start the car.
3. Immediately depress the accelerator fully and release fully 5 times in quick succession.
4. Wait a couple of seconds.
5. The **Check Engine** light will flash once - then start to blink.
 - a. All codes are comprised of 4 digits.
 - b. The number of blinks corresponds to the fault code.
 - c. For example, ON, pause, ON ON, pause, ON ON, pause, ON ON, off would be 1222.
6. Each four digit code will be flashed sequentially.
 - a. When the codes start to repeat, all stored codes have been displayed.
7. Turn the ignition Off.

BMW E31 Diagnostic Flash Codes

Note: DME version M5.2 (OBD-II) under validation; will post when completed.

	DME Version	M1.x (OBD-I)	M1.x (OBD-I)	M3.1 (OBD-I)	M3.3 (OBD-I)	M3.3.1 (OBD-I)	M5.2 (OBD-II)
Engine		V12	V12	V8	V8	V8	V8/V12
Malfunction		MCU 1	MCU 2				
DME Control Unit		1211	2211	1211	1211	1211	
Air Mass/Volume Sensor		1215	2215	1215	1215	1215	
Throttle Potentiometer		1216		1216	1216	1216	
Output Stage, Group #1					1218	1218	
Output Stage, Group #2					1219	1219	
EGO Sensor #1		1221	2221	1221	1221	1221	
EGO Sensor #2					1212	--	
Lambda Control #1		1222	2222	1222	1222	1222	
Lambda Control #2					1213	--	
Coolant Temp. Sensor		1223	--	1223	1223	1223	
Intake Air Temp. Sensor		1224	--	1224	1224	1224	
Knock Sensor #1					1225	1225	
Knock Sensor #2					1226	1226	
Knock Sensor #3					1227		
Knock Sensor #4					1228		
Battery Voltage/DME Main Relay		1231	2231	1231	1231	1231	
Throttle Idle Switch		1232	2232		--		
Throttle WOT Switch		1233	2233		--		
Speedometer "A" Signal					1234	1234	
A/C Compressor cut off					1237	1237	
A/C Compressor					1242	1242	
Crankshaft Pulse Sensor					1243	1243	
Camshaft Sensor					1244	1244	
Intervention, AEGS					1245	1245	
Ign. Secondary Monitor					1247	1247	
Fuel Injectors (group #1)		1251	2251				
Fuel Injectors (group #2)		1252	2252				
Fuel Injector #1				1251	1251	1251	
Fuel Injector #2				1252	1252	1252	
Fuel Injector #3				1253	1253	1253	
Fuel Injector #4				1254	1254	1254	
Fuel Injector #5				1255	1255	1255	
Fuel Injector #6				1256	1256	1256	
Fuel Injector #7					1257		
Fuel Injector #8					1258		
Fuel Pump Relay Control		1261	2261	1261	1261	1261	

Idle Speed Actuator	1262	--	1262	1262	1262	
Purge Valve	1263	2263	1263	1263	1263	
EGO Heater	1264	2264	1264	1264	1264	
Fault Lamp (check engine)				1265	1265	
VANOS				--	1266	
Air Pump Relay Control				1267	1267	
Ignition Coil, #1				1271	1271	
Ignition Coil, #2				1272	1272	
Ignition Coil, #3				1273	1273	
Ignition Coil, #4				1274	1274	
Ignition Coil, #5				1275	1275	
Ignition Coil, #6				1276	1276	
Ignition Coil, #7				1277		
Ignition Coil, #8				1278		
Control Unit Memory Supply				1281	1281	
Fault (code) Memory				1282	1282	
Fuel Injector Output Stage, no cyl #			1283	1283	1283	
Knock Control Test Pulse				1286	1286	
No Failure	1444	2444	1444	1444	1444	