Checking Wiring-Harness and Components of D-Jetronic at the ECU-Connector
Mercedes M116 (350)

Pin	Colour	Connection	Measurement / Reference Value	Result	Note
1	blue	connector air temp. sensor (NTC1) = temp. sensor I	Ohmmeter, against Pin.11 -10° C 14° F 960 Ohm 0° C 32 ° F 640 Ohm 10° C 50° F 435 Ohm 20° C 68° F 300 Ohm 30° C 86° F 210 Ohm 40° C 104° F 150 Ohm		
2	red	(Diagnose)	(-)		
3	green	output for injection-valves 1. group (Cyl. 1 & 5)	Ohmmeter, against Pin 11 1,2 Ohm		
4	grey	output for injection-valves 2. group (Cyl. 4 & 8)	Ohmmeter, against Pin 11 1,2 Ohm		
5	yellow	output for injection-valves 3. group (Cyl. 6 & 3)	Ohmmeter, against Pin 11 1,2 Ohm		
6	white	output for injection-valves 4. group (Cyl. 2 & 7)	Ohmmeter, against Pin 11 1,2 Ohm		
7	grey-green	MAP sensor (MPS) primary coil	1. Ohmmeter, against Pin 15 ca. 90 Ohm // 2. Ohmmeter against Pin 11 must be infinite Ohm - else short-circuit to earth (ground)		
8	grey-blue	MAP sensor (MPS) secondary coil	1. Ohmmeter, against Pin 10 ca. 350 Ohm // 2. Ohmmeter against Pin 11 must be infinite Ohm - else short-circuit to earth (ground)		
9	red-green	acceleration switch 1 throttle valve	LED continuity-tester, against Pin 12: open throttle valve slowly. LED must blink 10 times		
10	grey-red	MAP sensor (MPS) secondary	see Pin 8		
11	braun	earth (ground) connector ECU	Clean central point of earth (ground) and grease with acid-free grease		
12	red-black	earth (ground) connector trigger points (distributor) und throttle valve switch	see Pin 9, 13, 14, 17, 20, 21, 22		
13	yellow-white	trigger point (contact) 3 in distributor	LED continuity-tester, against Pin 12. activate starter. LED must blink while engine cranking		
14	yellow-green	trigger point (contact) 4 in distributor	LED continuity-tester, against Pin 12. activate starter. LED must blink while engine cranking		
15	grey-black	MAP sensor (MPS) primary coil	see Pin 7		
16	black	positive connection of ECU +12V	Voltmeter, against Pin 11 ignition switch on: + 12 V		
17	red-yellow	idle-switch throttle valve	Ohmmeter, against Pin 12 0 Ohm. open throttle-valve minimal: infinite Ohm		
18	purple	start signal (to Pin 50)	Voltmeter, against Pin 11 when starting: + 12 V		
19	brown-white	to fuel-pump-relais [switched by earth (ground)]	ignition switch on. bridge to Pin 11: fuel pump turns		

20	red-white	acceleration switch 2 throttle valve	LED continuity-tester, against Pin 12: open throttle valve slowly. LED must blink 10 times		
21	yellow-red	trigger point (contact) 1 in distributor	LED continuity-tester, against Pin 12. activate starter. LED must blink while engine cranking		
22	yellow-blue	trigger point (contact) 2 in distributor	LED continuity-tester, against Pin 12. activate starter. LED must blink while engine cranking		
23	blue-white	coolant temp sensor = temp. sensor II	Ohmmeter, against Pin 11 0° C 32° F 5,9 kOhm 20° C 68° F 2,5 kOhm 40° C 104° F 1,2 kOhm 60° C 140° F 600 Ohm 80° C 176° F 325 Ohm 100° C 212° F 190 Ohm		
24	black	positive connection injection-valves +12V	Voltmeter against Pin 11 ignition switch on: + 12 V		
25	(-)	(diagnosis ECU)	(-)		