

**Checking Wiring-Harness and Components of D-Jetronic at the ECU-Connector  
Mercedes M110 (280)**

Pin	Colour	Connection	Measurement / Reference Value	Result
1	blue	connector air temp. sensor (NTC1) = temp. sensor I	Ohmmeter, against Pin 13 -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	(-)	n.c.	(-)	
3	green	output A for injection-valves 1. group (Cyl. 1 & 3)	Ohmmeter, against Pin 11 1,2 Ohm	
4	grey	output B for injection-valves 1. group (Cyl. 5)	Ohmmeter, against Pin 11 2,4 Ohm	
5	yellow	output A for injection-valves 2. group (Cyl. 2 & 4)	Ohmmeter, against Pin 11 1,2 Ohm	
6	white	output B for injection-valves 2. group (Cyl. 6)	Ohmmeter, against Pin 11 2,4 Ohm	
7	grey-green	MAP sensor (MPS) primary coil	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	Ohmmeter, against Pin 10 ca. 350 Ohm // 2. Ohmmeter against Pin 11 must be infinite Ohm - else short-circuit to earth (ground)	
9	rot-green	acceleration switch 1 throttle valve	LED continuity-tester, against Pin 11: open throttle valve slowly. LED must blink 10 times	
10	grey-red	MAP sensor (MPS) secondary coil	see Pin 8	
11	brown	earth (ground) connector ECU	Clean central point of earth (ground) and grease with acid-free grease	
12	yellow-black	earth (ground) connector trigger points (distributor)	see Pin 21, Pin 22	
13	blue-black	connector air temp. sensor (NTC1) = temp. sensor I	see Pin 1	
14	red	Full-load-switch throttle valve	Ohmmeter, against Pin 11: throttle valve closed: infinite Ohm. Full throttle: 0 Ohm	
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 11 0 Ohm; throttle valve minimal opened: 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 11: open throttle valve slowly. LED must blink 10 times	

<b>21</b>	yellow-red	trigger point (contact) 1 in distributor	LED continuity-tester, against Pin 12. activate starter. LED must blink while engine cranking	
<b>22</b>	yellow-blue	trigger point (contact) 2 in distributor	LED continuity-tester, against Pin 12. activate starter. LED must blink while engine cranking	
<b>23</b>	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	
<b>24</b>	black	positive connection injection-valves +12V	Voltmeter against Pin 11 ignition switch on. + 12 V	
<b>25</b>	(-)	(diagnosis ECU)	(-)	