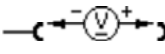
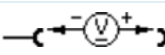
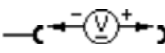
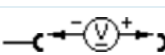
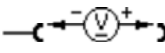
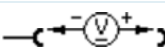
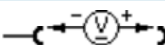
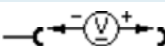
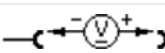
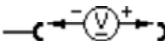
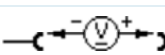
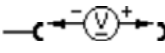
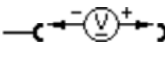
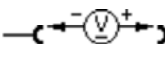
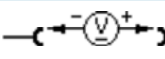
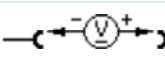
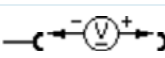
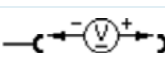
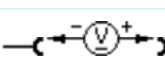
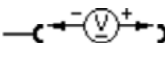
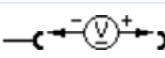
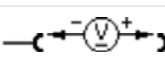
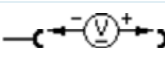
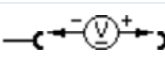
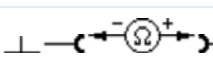
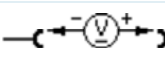
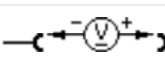
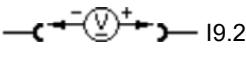
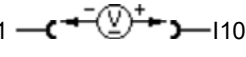
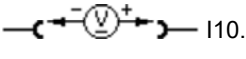
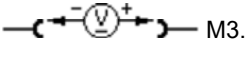
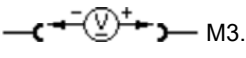
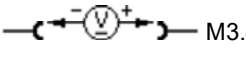
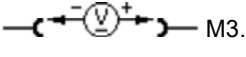
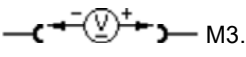
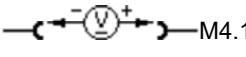


All values measured to ground unless otherwise noted				
Conn./Plug/Pin	Pin Information	Test Equipment/Pins	Conditions	Test values/Comments
N10/1				Note 1
B1.1	DFM signal input	No test information available		
B1.2	Circuit 61 output	No test information available		
B1.3	Voltage output activates A/C compressor	I2.1  B1.3	A/C system on Defrost on EC off A/C compressor on	12 VDC
B1.4	Pin not used			
B2.1	Circuit 87ME1 power output	I2.1  B2.1	Ignition: On	12 VDC
B2.2	Circuit 15 power output	I2.1  B2.2	Ignition: On	12 VDC
B2.3	Pin not used			
B2.4	Circuit 15 power output	I2.1  B2.4	Ignition: On	12 VDC
B2.5	Circuit 50 power output	I2.1  B2.5	Starter turning	12 VDC
C1.1	Headlamp range adjustment control module bus signal	No test information available		
C1.2	Circuit 30 main power input	I2.1  C1.2		12 VDC at all times
C1.3	Circuit 15 switched power input	I2.1  C1.3	Key in position "1"	12 VDC
C1.4	No pin information available			
C1.5	Pin not used			
C1.6	Circuit 30 main power output	I2.1  C1.6		12 VDC at all times
C1.7	Pin not used			
C1.8	Circuit 30 main power output	I2.1  C1.8		12 VDC at all times
C1.9	Pin not used			
C1.10	Circuit 15R switched power input	I2.1  C1.10	Key in position "1"	12 VDC
C1.11	Circuit 15 power output	I2.1  C1.11		12 VDC
C1.12	Circuit 30 main power output	I2.1  C1.12		12 VDC at all times

C1.13	Circuit 15 power output	I2.1  C1.13		12 VDC
C2.1	Circuit 58d output, "Dimmed Instrument Illumination" voltage	I2.1  C2.1		0.5-12 VDC Depending on setting of dimming value and ambient brightness
C2.2	Parking lamp left/right side signal input	I2.1  C2.2	Parking lamp switched on	> 5 VDC
C2.3	Fog lamps on LED signal	I2.1  C2.3	Foglamps switched	> 5 VDC
C2.4	HCS activation signal input	I2.1  C2.4	HCS activated	> 5 VDC
C2.5	Automatic headlamps on signal input	I2.1  C2.5	Headlamps switched on	> 5 VDC
C2.6	Circuit 56 "lights on" signal input	I2.1  C2.6	Lights switched on	12 VDC
C2.7	No pin informatio available			
C2.8	Rear/Front fog lamps on signal input	I2.1  C2.8	Foglamps switched	> 5 VDC
C2.9	CAN Class B bus (high side)			Note 3
C2.10	CAN Class B bus (low side)			See pin C2.9
C2.11	Climate control bus signal	No test information available		
C2.12	Circuit 30 main power output	I2.1  C2.12		12 VDC at all times
C2.13	Right front footwell lamp	I2.1  C2.13		12 VDC
C2.14	Rear fog lamps on LED signal	I2.1  C2.14	Foglamps switched	> 5 VDC
I1	Circuit 30 main power input	I2.1  I1		12 VDC at all times
I2.1	Main ground to W15/2	 I2.1		0 Ohm
I2.2	Circuit 15 power output	I2.1  I2.2	Key in position "1"	12 VDC
I2.3	Circuit 15 power output	I2.1  I2.3	Key in position "1"	12 VDC
I2.4	Pin not used			
I4.1	Headlamp range adjustment control bus signal	No test information available		

I9.2	Circuit 15 power output	I2.1  I9.2	Key in position "1"	12 VDC
I10.1	HCS pump motor ground	see pin I10.2		
I10.2	HCS pump motor voltage supply	I10.1  I10.2	HCS activated	12 VDC
I10.3	Circuit 15 power output	I2.1  I10.3	Key in position "1"	12 VDC
I10.4	Headlamp range adjustment control module bus signal	No test information available		
M3.2	Left low beam lamp voltage supply	I2.1  M3.2	Low beam light on (E1e2)	12 VDC
M3.3	Left high beam solenoid power output	I2.1  M3.3	High beam lights on	12 VDC
M3.4	Left high beam lamp voltage supply	I2.1  M3.4	High beam light on (E1e1)	12 VDC
M3.5	Left front turn signal lamp voltage supply	I2.1  M3.5	Hazard flasher on or Ignition on and left turn signal on	12 VDC intermittent E1e5 flashes Note 2
M3.6-7	Pins not used			
M3.8	Left fog lamp voltage supply	I2.1  M3.8	Front fog lights on E5/1 illuminated	12 VDC
M3.9	Pin not used			
M4.10	Left front standing/parking lamp voltage supply	I2.1  M4.10	Left standing/parking lights on	12 VDC
Note 1	For pins of the other connectors see diagrams PE54.21-U-2109DF to DH			
Note 2	Turn signal/hazard warning flasher frequencies: 1.5 Hz (90/min) with all turn lights ok. 3.0 Hz (180/min) one or more turn lights defective.			
Note 3	Mid speed data transfer bus input and output, shares data with other ECMs	No reliable test. Also check continuity to other ECMs.		5 VAC when data is on bus.

See PE00.19-U-2300DA - DC			
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