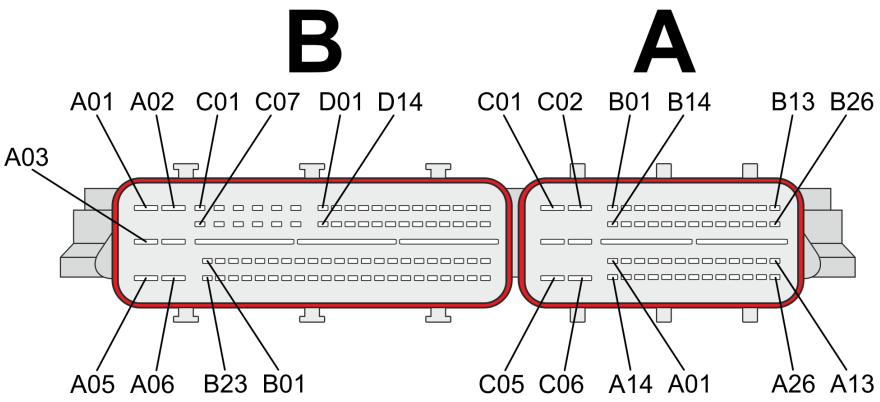
BMW 3-series [E46] Cabriolet [1999 - 2007] - 318 Ci N46B20B - E46 - 2005 - 2007



Component	From	To	Condition	Value	Picture	Scope image
.	.	.	Connector seen from wire side	.		
Accelerator pedal sensor	AA07	AA23	Ignition on, accelerator released	0 - 1,5 V	Info	0.37
Accelerator pedal sensor	AA20	AA10	Ignition on, accelerator released	0 - 1,5 V	Info	0.70
Accelerator pedal sensor	AA07	AA23	Ignition on, accelerator fully depressed	4 - 5 V	Info	1.93
Accelerator pedal sensor	AA20	AA10	Ignition on, accelerator fully depressed	4 - 5 V	Info	3.87
Accelerator pedal sensor	AA24	Batt. -	Ignition on	5 V	Info	3.87
Accelerator pedal sensor	AA10	Batt. -	Ignition on	0 V	Info	0
Accelerator pedal sensor	AA11	Batt. -	Ignition on	5 V	Info	4.95
Accelerator pedal sensor	AA23	Batt. -	Ignition on	0 V	Info	0
Battery (possitive)	AC01	Batt. -	Ignition off.	11 - 14 V		11.73
Broadband oxygen sensor B1S1	AB10	Batt. -	Ignition on	0 V	Info	2.48
Broadband oxygen sensor B1S1	AB18	AB06	Testing only possible with tester	.	Info	
Broadband oxygen sensor B1S1	AB08	AB10	Ignition on	0,4 - 0,5 V	Info	2.93
Broadband oxygen sensor B2S1	AB09	AB11	Ignition on	0,4 - 0,5 V	Info	
Broadband oxygen sensor B2S1	AB11	Batt. -	Ignition on	0 V	Info	
Broadband oxygen sensor B2S1	AB05	AB07	Testing only possible with tester	.	Info	
Camshaft hall sensor	BD11	Batt. -	At idle		Info	Scope image
Camshaft hall sensor	BD12	Batt. -	At idle		Info	Scope image
Camshaft hall sensor	BD24	Batt. -	Ignition on	0 V	Info	0
Camshaft hall sensor	BD25	Batt. -	Ignition on	0 V	Info	0
Camshaft timer	BD18	Batt. -	At idle	11 - 14 V		12.7
Camshaft timer	BD05	Batt. -	Idle, rev up	0 - 1 V	Info	12.85
Camshaft timer	BD18	Batt. -	Idle, rev up	0 - 1 V		12.7
Camshaft timer	BD05	Batt. -	At idle	11 - 14 V	Info	12
CAN bus wires	AA14	AA01	Ignition off.	55 - 65 ohm		
CAN bus wires	AA14	Batt. -	Ignition on	2,5 - 2,7 V		Scope image
CAN bus wires	AA01	Batt. -	Ignition on	2,2 - 2,4 V		Scope image
Canister purge valve	BB23	Batt. -	Idle control valve activated		Info	Scope image
Canister purge valve	BB23	Batt. -	Ignition on	11 - 14 V	Info	
Coolant temperature sensor	BB08	Batt. -	Ignition on, 80° C	0,2 - 0,5 V	Info	
Coolant temperature sensor	BB08	Batt. -	Ignition on, 20° C	2 - 2,5 V	Info	
Coolant temperature sensor	BB09	Batt. -	Ignition on	0 V	Info	
Crankshaft Hall sensor	BB29	Batt. -	At idle		Info	Scope image
Crankshaft Hall sensor	BB30	Batt. -	Ignition on	0 V	Info	
Fuel injector, cyl. 1	BD01	Batt. -	Idle, warm	2 - 4,5 ms	Info	Scope

						image
Fuel injector, cyl. 1	BDO1	Batt. -	Ignition on	11 - 14 V	Info	
Fuel injector, cyl. 2	BD02	Batt. -	Ignition on	11 - 14 V	Info	
Fuel injector, cyl. 2	BD02	Batt. -	Idle, warm	2 - 4,5 ms	Info	Scope image
Fuel injector, cyl. 3	BD03	Batt. -	Idle, warm	2 - 4,5 ms	Info	Scope image
Fuel injector, cyl. 3	BD03	Batt. -	Ignition on	11 - 14 V	Info	
Fuel injector, cyl. 4	BD14	Batt. -	Ignition on	11 - 14 V	Info	
Fuel injector, cyl. 4	BD14	Batt. -	Idle, warm	2 - 4,5 ms	Info	Scope image
Ignition coil cyl. 1	BC01	Batt. -	At idle		Info	Scope image
Ignition coil cyl. 1	BC01	Batt. -	Ignition on	11 - 14 V	Info	
Ignition coil cyl. 2	BC02	Batt. -	Ignition on	11 - 14 V	Info	
Ignition coil cyl. 2	BC02	Batt. -	At idle		Info	Scope image
Ignition coil cyl. 3	BC03	Batt. -	At idle		Info	Scope image
Ignition coil cyl. 3	BC03	Batt. -	Ignition on	11 - 14 V	Info	
Ignition coil cyl. 4	BC04	Batt. -	Ignition on	11 - 14 V	Info	
Ignition coil cyl. 4	BC04	Batt. -	At idle		Info	Scope image
Ignition switch (terminal 15)	AB01	Batt. -	Ignition on	11 - 14 V		
Ignition switch (terminal 15)	AB01	Batt. -	Ignition off.	0 V		
Knock sensor	BB20	BB41	Idle, rev up briefly		Info	Scope image
Knock sensor 2	BB42	BB19	Idle, rev up briefly		Info	Scope image
MAF sensor with temperature sensor	BB26	Batt. -	At full load	4,2 - 4,9 V	Info	
MAF sensor with temperature sensor	BB28	Batt. -	Ignition on, 20° C air temperature	2 - 2,5 V	Info	3.17
MAF sensor with temperature sensor	BB25	Batt. -	Ignition on	5 V	Info	4.95
MAF sensor with temperature sensor	BB26	Batt. -	Ignition on	0,98 - 1,02 V	Info	0
MAF sensor with temperature sensor	BB27	Batt. -	Ignition on	0 V	Info	
MAF sensor with temperature sensor	BB26	Batt. -	Idle, warm	0,5 - 0,6 V	Info	3.10
MAP sensor	BB31	Batt. -	Ignition on	5 V	Info	5
MAP sensor	BB32	Batt. -	Ignition on	0 V	Info	0
MAP sensor	BB33	Batt. -	At idle	2,9 - 3,5 V	Info	2.45
Negative battery terminal (terminal 31)	AC03	Batt. -	Ignition on	0 V	0	
Negative battery terminal (terminal 31)	AC04	Batt. -	Ignition on	0 V	0	
Negative battery terminal (terminal 31)	AC05	Batt. -	Ignition on	0 V	0	
Negative battery terminal (terminal 31)	AC06	Batt. -	Ignition on	0 V	0	
O2-sensor after cat.	AB20	Batt. -	Idle, warm	0,5 ~ 0,9 V	Info	Scope image 0.45
O2-sensor after cat.	AB19	Batt. -	Idle, warm	0,5 ~ 0,9 V	Info	Scope image
O2-sensor after cat.	AB20	Batt. -	Decreasing engine rpm	0,1 - 0,4 V	Info	
O2-sensor after cat.	AB19	Batt. -	Decreasing engine rpm	0,1 - 0,4 V	Info	
O2-sensor after cat.	AB20	Batt. -	Increasing engine rpm	0,6 - 1 V	Info	
O2-sensor after cat.	AB19	Batt. -	Increasing engine rpm	0,6 - 1 V	Info	
O2-sensor after cat.	AB24	Batt. -	At idle	0 V	Info	3.54
O2-sensor after cat.	AB23	Batt. -	At idle	0 V	Info	
Pump relay	AA22	Batt. -	Pump running	0 - 1 V	Info	11
Pump relay	AA22	Batt. -	Ignition on	11 - 14 V	Info	0
System relay	AB14	Batt. -	Ignition off.	11 - 14 V	Info	12
System relay	AC02	Batt. -	Ignition off.	0 V	Info	0
System relay	AB14	Batt. -	Ignition on	0 - 1 V	Info	0.87
System relay	AC02	Batt. -	Ignition on	11 - 14 V	Info	
Temperature sensor	AA19	Batt. -	Ignition on, 80° C	0,2 - 0,5 V	Info	0.70

radiator outlet						
Temperature sensor radiator outlet	AA19	Batt. -	Ignition on, 20° C	2 - 2,5 V	Info	
Temperature sensor radiator outlet	AA06	Batt. -	Ignition on	0 V	Info	0
Throttle valve control unit	BB14	Batt. -	Ignition on	5 V	Info	5v
Throttle valve control unit	BB38	Batt. -	Ignition on	0 V	Info	0
Throttle valve control unit	BB36	.	Testing only possible with tester	.	Info	
Throttle valve control unit	BB37	.	Testing only possible with tester	.	Info	