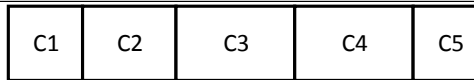
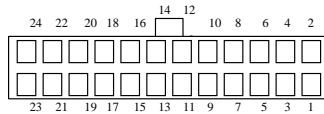


BMW E46 with the M54 engine

BC-box



P1

Original ECU

P2

Rev. 2007-11-27

Master connector				Master connector			
pin	Color	name	Function	Original ECU	Color	Connect to	Action
1	black / white	signal GND	Ground (Chassi)			Ground (Chassi)	Connect to Chassi
2	grey	5v out	5V supply for accessories				Optional
3							
4	green	Analog 4 in	<i>not used</i>	22 C3	yellow/blue	Intake Air Temp (Optional)	<i>Listen to signal</i>
5	violette	PWM out	Boost control valve				
6		Analog 3 in	Internal MAP sensor				
7	yellow	Analog 2 out	to stock ECU MAF input	1 C3	yellow	MAF signal to ECU	Cut and solder
8	red / green	Analog 2 in	from stock MAF sensor	1 C3	yellow	MAF sensor	Cut and solder
9		Analog 1 out	<i>not used</i>				
10	red / yellow	Analog 1 in	from stock Throttle Pos Sensor	23 C3	white	Throttle Pos Sensor	<i>Listen to signal</i>
11		PWM out	<i>not used</i>				
12		PWM in	<i>not used</i>				
13	blue / red	IgnitionA out	<i>not used *</i>				
14	blue / white	IgnitionA in	from crank sensor*	8 C3	yellow	Crank sensor	Listen to signal
15		Fuel_D_OUT	<i>not used</i>				
16		Fuel_D_IN	<i>not used</i>				
17	brown / black	Fuel_C_OUT	to fuel injector	35 C3	brown/yellow	Fuel injector	Cut and solder
18	brown / red	Fuel_C_IN	fuel signal from ECU	35 C3	brown/yellow	ECU output	Cut and solder
19	brown / blue	Fuel_B_OUT	to fuel injector	34 C3	brown/red	Fuel injector	Cut and solder
20	brown / grey	Fuel_B_IN	fuel signal from ECU	34 C3	brown/red	ECU output	Cut and solder
21	brown / yellow	Fuel_A_OUT	to fuel injector	33 C3	brown/white	Fuel injector	Cut and solder
22	brown / green	Fuel_A_IN	fuel signal from ECU	33 C3	brown/white	ECU output	Cut and solder
23	black	Power GND	Ground (Chassi)			Ground (Chassi)	Connect to Chassi
24	red	12 V Power	+12V from ignition (possibly from fuel injectors)	P1	red/white	Power Supply 12 V	
Slave connector				Slave connector			
1	black / white	signal GND	Ground (Chassi)			Ground (Chassi)	Connect to Chassi
6		Analog 3 in	Internal MAP sensor internally connected				
10	red / yellow	Analog 1 in	From stock Throttle Pos Sensor	23 C3	white	Throttle Pos Sensor	<i>Listen to signal</i>
14	blue / white	IgnitionA in	from crank sensor*	8 C3	yellow	Crank sensor	Listen to signal
17	black / yellow	Fuel_C_OUT	to fuel injector	38 C3	brown/purple	Fuel injector	Cut and solder
18	brown	Fuel_C_IN	fuel signal from ECU	38 C3	brown/purple	ECU output	Cut and solder
19	black / green	Fuel_B_OUT	to fuel injector	37 C3	brown/green	Fuel injector	Cut and solder
20	red / white	Fuel_B_IN	fuel signal from ECU	37 C3	brown/green	ECU output	Cut and solder
21	green / white	Fuel_A_OUT	to fuel injector	36 C3	brown/blue	Fuel injector	Cut and solder
22	white	Fuel_A_IN	fuel signal from ECU	36 C3	brown/blue	ECU output	Cut and solder
23	black	Power GND	Ground (Chassi)			Ground (Chassi)	Connect to Chassi

* If ignition control is necessary, ignition A in and out must connect to crank signal via a coil adapter.