

# Perfect Power Wiring Diagrams BMW Menu

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BMW Wiring Diagrams	
Model	ECU Location
318,323, 325 (E30) - Bosch Motronic Le - Jettronic - 1987-89	
<u>Mini 2003</u>	
e520i - Bosch Motronic M3.1 - 1992-96	a std
525i - Bosch Motronic M3.1 - 1992-96	(b <sub>13</sub> )
M3 3.2 double vanos (E36) (S50 B32) - Bosch Motronic 3.1 - 1997	<b>\</b>
316i (e46) (194E1) - Bosch BMS 46 - 1999-02	
316i Comp <mark>act (e36) (194E1) - Bosch BMS 46 - 1998-02</mark>	
318i (E46) (194E1) - Bosch BMS 46 - 1998-02	
320i - Bosch Motronic M3.1 - 1992-1997	
325i - Bosch Motronic M3.1 - 1992-96	
M3 3.2 Double Vanos (E36) (S50 B32) - Bosch motronic 3.1 - 1997	<
325 - Motronic - 1982-88	<b>/</b>
325e - Motronic - 1982-88	<b>/</b>
528e - Motronic - 1982-88	<b>/</b>
533i - Motronic - 1982-88	
535i - Motronic - 1982-88	_/
535iS - Motronic - 1982-88	<b>/</b>
635Si - Motronic - 1982-88	<b>/</b>
635CSi - Motronic - 1982-88	<b>/</b>
733i - Motronic - 1982-88	<b>/</b>
735i - Motronic - Motronic	V Voj) ita
Z3 2.0 (20 6S 4) - Siemens MS 42 - 1999-02	2 `
Z3 2.8 (28 6S 2) - Siemens MS 42 - 1999-02	<b>/</b>
520i (E39) (25 6S 4) - Siemens MS 42 - 1998-02	
523i (E39) (20 6S 4) - Siemens MS 42 - 1998-02	

528i (E39) (28 6S 2) - Siemens MS 42 - 1998-02	
728i (E28) (28 6S 2) - Siemens MS 42 - 1998-02	
740i (E38) - Bosch Motronic M3.3 - 1994-96	
<u>M5 24V</u>	<b>/</b>
<u>540 1997</u>	<b>/</b>
318iS/Coupe (E36) - Bosch Motronic 5.2 - 1996-99	<b>/</b>
318Ti Compact (E36) - Bosch Motronic 5.2 - 1996-00	
320i (E46) (20 6S 4) - Siemens MS 42 - 1998-02	
323i (E46) (25 6S 4) - Siemens MS 42 - 1998-02	
328i (E46) (28 6S 2) - Siemens MS 42 - 1998-02	
730i (E32) - Bosch Motronic M3.3 - 1992-94	
730i (E38) - Bosch Motronic M3.3 - 1994-96	
740i (E32) - Bosch Motronic M3.3 - 1992-94	
<u>540 1998-</u>	J Ky) Ita
520i 24V Vanos (E34) - Bosch Motronic M3.3.1 - 1992-96	
3.2 M3 Double Vanos - Bosch Motronic 3.1 -	<b>/</b>
325i 24V Vanos (E36) - Bosch Motronic M3.3.1 - 1992-97	<b>/</b>
525i 24V Vanos (E34) - Bosch Motronic M3.3.1 - 1992-96	<b>/</b>
2.0 & 2.5 24V no Vanos	<b>/</b>
316i (E36) (16 4E 1) - Bosch Motronic M1.7 - 1991-93	
318i (E36) (18 4E 1) - Bosch Motronic M1.7 - 1991-93	
518i (E34) - Bosch Motronic M1.7 - 1989-95	
530 & 540 V8	<b>/</b>
2L & 2.5L 24V with Vanos	<b>/</b>
3.0L M3 with Vanos	<b>/</b>
530i (E34) - Bosch Motronic M3.3 - 1992-96	
540i (E34) - Bosch Motronic M3.3 - 1992-96	1
316 M40	<b>/</b>
316i/318i (E30) - Bosch Motronic M1.1/1.3 - 1988-93	-
320i (E30) - Bosch Motronic M1.1/1.3 - 1986-93	
325i/325e (E30) - Bosch Motronic M1.1/1.3 - 1985-93	bs.
318i (E36) - Bosch Motronic M1.1/1.3 - 1991-93	(bth)
518i (E34) - Bosch Motronic M1.1/1.3 - 1991-93	7

520i (E34) - Bosch Motronic M1.1/1.3 - 1991-93	
525i (E34) - Bosch Motronic M1.1/1.3 - 1988-93	
530i (E34) - Bosch Motronic M1.1/1.3 - 1988-93	
535i (E34) - Bosch Motronic M1.1/1.3 - 1988-93	
730i (E32) - Bosch Motronic M1.1/1.3 - 1986-92	
735i (E32) - Bosch Motronic M1.1/1.3 - 1986-92	
318i DOHC whith timing chain (M42)	<b>/</b>
318iS with viscous fan	<b>\</b>
2.8L 24V	<b>/</b>
320i Vanos (E36) (20 6s 3) - Siemens MS 41 - 1994-99	
323i/Compact (E36) (25 6s 3) - Siemens MS 41 - 1995-00	
328i (E36) (28 6S 1) - Siemens MS 41 - 1995-99	
520i 24V Vanos (E39) (20 6S 3) - Siemens MS 41 - 1996-00	
528i (E39) - Siemens MS 41 - 1996-00	
316 M43 Timing chain	<b>/</b>
520i 24V Vanos (E39) - Siemens MS 41 - 1996-99	
523i (E39) - Siemens MS 41 - 1996-99	J way Ita
528i (E39) - Siemens MS 41 - 1996-99	
728i - Siemens MS 41 - 1998	
325i/325e (E30) - Bosch Motronic M1.1/1.3 - 1985-93	<b>/</b>
318i(E36)/518i/520i (E34) - Bosch Motronic M1.1/1.3 - 1991-93	<b>^</b>
525i/530i/535i (E34) - Bosch Motronic M1.1/1.3 - 1988-93	<b>/</b>
730i/735i (E32) - Bosch Motronic M1.1/1.3 - 1986-92	1
3L M3 Vanos	1
320i Vanos (E36) - Siemens MS 41 - 1994-98	
323i/Compact (E36) - Siemens MS 41 - 1995-98	
328i (E36) - Siemens MS 41 - 1995-98	
320i 24V (E36) - Bosch Motronic M3.1 - 1991-92	<
320i 24V Vanos (E36) - Bosch Motoronic M3.1 - 1992-97	<b>/</b>
325i 24V (e36) - Bosch Motronic M3.1 - 1991-92	1
325i 24V Vanos (E36) - Bosch Motronic M3.1 - 1992-97	
	<b>V</b>
520i/525i 24V (e36) - Bosch Motoronic M3.1 - 1989-92	1
520i/525i 24V (e36) - Bosch Motoronic M3.1 - 1989-92 520i/525i 24V Vanos (e34) - Bosch Motronic M3.1 - 1992-96	1

	1 1/10
316i/318i (E30) - Bosch Motronic M1.1/1.3 - 1988-93	
320i (E30) - Bosch Motronic M1.1/1.3 - 1986-93	<b>\</b>
316i (E36) - Bosch Motronic M1.7.3 - 1995-00	
318i (E36) - Bosch motronic M1.7.3 - 1995-99	
745i - Motronic -	







ECU make: Bosch Motronic Le - Jettronic

Model: 318,323, 325 (E30)

1987-89 Year:

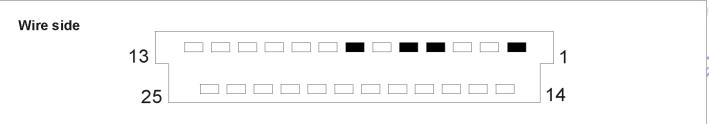
Comments:

**ECU Location:** 

Vehicle make:

Click here to return to BMW Menu.

## **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 5 4 1 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Sensol Crankshaft Green Injector and Ground (O) Power Black/Brown 22 Lambdain

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	2
Teeth per firing	ηή· 1
Modes	10
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
-	

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 123

Ref: BMW917.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

**ENGINE** 

# Perfect Power Wiring Diagram



**ECI** 

ECU make:

Model:

Mini G

Year: Comments:

**ECU Location:** 



Click here to return to BMW Menu.

## **ECU Pin Out**



#### Wiring Diagram

				<u> </u>			- 5		
иl	61	10	29	65	9		Pin n	<u>o.</u>	-
"	٠.					Red	13		
- 1						Power			
						Black	1		
	1		8		8	Ground			
						Brown	7		1
						Analog defl			
						Violet	18	$ \alpha $	
						Analog out		ĭ/i	
					0 .	Blue	6	WIRING HARNESS	
						Analog in		5	
						White/Blue	17		d
						Digital out		Ť	
						White/Red	5	(2)	1
						Digital in		ž	
						Pink	19	$\equiv$	
						Biplrign out		1.	•
						White	20		
						Uniphrigan ou		91	
		33				Yello w	8		
		ĕ		12 4 10 0 0		Ign in		툋	

Lambda sensor

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
Interlaced	OFF

Click here for an explanation on how to use the global settings.

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Sound

hrottle position sensor

Airflow sensor

**ENGINE** 

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Ref: BMW791.pdf

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Black/blue Pullup

Black/Blue

Injector and

Black/Brown

Lambdain

<u>Pullup</u> Græn 15



ECU make: Bosch Motronic M3.1

Model: e520i

Year: 1992-96

Comments: Not sure of crank pickup feedback appreciated

**ECU Location:** 

Click here to return to BMW Menu.

**Global Settings** 

60

30

ON

Teeth per turn(incl miss)

Cylinders

Modes
System Config
Positive input pol
Positive output pol

Teeth per firing

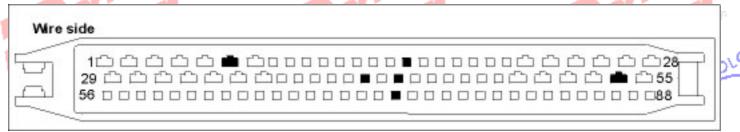
Low level input

Click here for an

explanation on how to use the global settings.

Vehicle make:

#### **ECU Pin Out**



#### Wiring Diagram

**ECU** 

	mg Diag	<u> </u>	
16	43		Pin no.
''	43	Red	13

1	S				Power	
					Black	1
	1			S 8	Ground	
					Brown	7
				S	Analog defl	
			l		Wio la t	118

Violet Analog out Blue

Analog in

6

17

5

19

14

15

22

HARN

Digital out | White/Red | Digital in

White/Blue

Pink Biplrignout

White Uniplrign out

Uniphrign out
Yellow

Ign in

Pullup Black/Blue

Black/blue

Pullup Green Injector and

Black/Brown Lambdain

ENGINE

Sensor

Copyright Digital Technology

position

hrottle

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Ref: BMW767.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

D.B.

Sensor (43)

Crark



ECU make: **Bosch Motronic M3.1** 

Model: 525i

Year: 1992-96

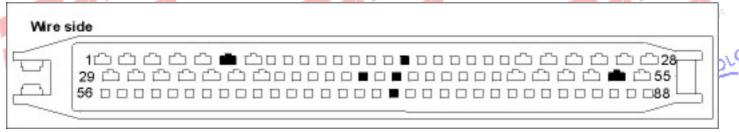
Not sure of crank pickup feedback appreciated Comments:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

## **ECU Pin Out**



**ECL** 

Wiring Diagram	and the same of th

Digital out White/Red

Digital in Pink

White

Yellow Ign in Black/blue

Pullup

Pullup

Green

Black/Blue

Injector and

Black/Brown

Lambdain

Biplrign out

Uniplrign out

				 	Red	13	
Ī					Power		
	1				Black	1	
	T		× ×	K .	Ground		
					Brown	7	
		Ī			Analog defl		
					Violet	18	امرا
			-		Analog out		8
			82	0	Blue	6	Ш
					Analog in		<b>ARNE</b>
					White/Blue	17	114

Cylinders

Teeth per turn(incl miss) 60 Teeth per firing 30 Modes System Config Positive input pol Positive output pol

**Global Settings** 

Low level input Click here for an

explanation on how to use the global settings.

Ö

兰

5

8

14

15

22

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position

hrottle

Date: 24 Mar 2004 Page: 35

Sensor (43)

Crark

Sensor

**ENGINE** 

Ref: BMW768.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: **Bosch Motronic 3.1** 

M3 3.2 double vanos (E36) (S50 B32)

Year: 1997

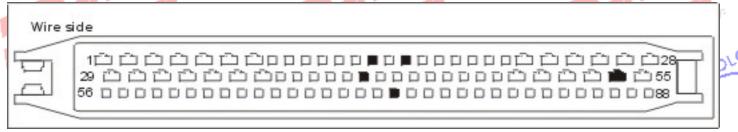
Fuel only, see other diagram for ignition mod's Comments:

**ECU Location:** Engine bay behind fuse box

Click here to return to BMW Menu.

Vehicle make:

## **ECU Pin Out**



#### Wiring Diagram

## **Global Settings**

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
-	

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 54 14 73 41 16 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue Analog in 17 White/Blue ¥ H Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor Black/blue 14 Pullup 15 Black/Blue Pullup

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Ground

Power

sensor

shaft

rank

**ENGINE** 

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Ref: BMW891.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Green

Injector and

Black/Brown

Lambdain



ECU make: Bosch BMS 46

Model: 316i (e46) (194E1)

1999-02 Year:

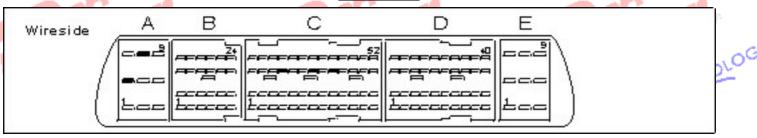
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	١.
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
- 11 ( mg) 11 ( mg)	

O THE TY Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. Α8 Α4 C33 C30 C35 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in hrottle position sensor. 14 Black/blue signal sensor Pullup Black/Blue 15 Sensor Pullup Green Airflow Injector and Ground Power 22

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Ref: BMW761.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Black/Brown Lambdain

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ECU make: Bosch BMS 46

Model: 316i Compact (e36) (194E1)

Year: 1998-02

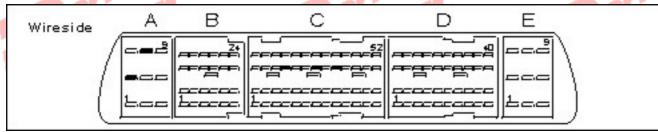
Comments:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

#### **ECU Pin Out**



#### Wiring Diagram

#### Global Settings

NOG

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
10/1/201	

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. Α8 Α4 C33 C30 C35 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow

signal sensor

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Ground

Power

hrottle position sensor.

Sensor

Airflow

**ENGINE** 

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Ref: BMW762.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Ign in

<u>Pullup</u> Black/Blue

<u>Pullup</u> Green

Black/blue

Injector and

Black/Brown Lambdain 14

15



ECU make: Bosch BMS 46

Model: 318i (E46) (194E1)

Year: 1998-02

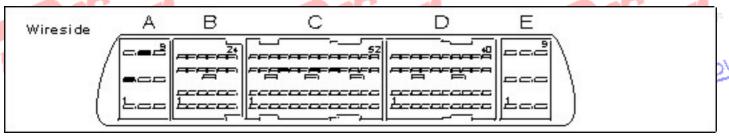
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	١.
Positive input pol	ON
Pocitive output nol	ON

Click <u>here</u> for an explanation on how to use the global settings.

ECU	- 2
A8   A4   C33   C30   C35	Pin no.
Power	
Black Ground	1
Brown Analog defi	74
Violet Analog out	18 9
Blue	<u> </u>
Analog in White/Blue	
Digital out	<b>-</b>  5  ½
White/Red Digital in	H일
Pink Biplrign out	MIRING HARNESS
White Uniplrign ou	_
Yellow	

grition signal sensor

Airflow sensor

**ENGINE** 

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Ground

Power

hrottle position sensor

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Ref: BMW763.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Ign in

Pullup

<u>Pullup</u> Græn

Black/blue

Black/Blue

Injector and

Black/Brown

Lambdain

15



ECU make: Bosch Motronic M3.1

Model: 320i

Year: 1992-1997

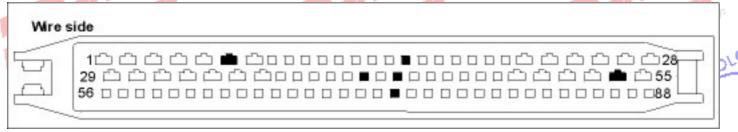
Comments: Not sure of crank pickup feedback appreciated

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

## **ECU Pin Out**



#### Wiring Diagram

ECU :

41

73

6

54

16	42		Pin no.
10	43	D - 4	12

				Power		
				Black	1	
	S 8		× ×	Ground	$\Box$	1
				Brown	7	
			1.00 K	Analog defl		1
				Violet	18	00
				Analog out	$\Box$	8
			s e	Blue	6	ш

Teeth per firing 30
Modes 1
System Config
Positive input pol ON
Positive output pol
Low level input ON

**Global Settings** 

60

Teeth per turn(incl miss)

Cylinders

HAR

17

5

19

8

14

15

Click <u>here</u> for an explanation on how to use the global settings.

White/Blue Digital out White/Red Digital in Pink

Analog in

<u>Biplrign out</u> White Uniplrign ou

White Unipirign out Yellow Ign in

Black/blue <u>Pullup</u> Black/Blue

Pullup Black/Blue Pullup

Green 9 Injector and Plack/Brown 22

Black/Brown Lambdain

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position

hrottle

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Sensor (43)

Crark

Sensor

**ENGINE** 

Ref: BMW765.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: **Bosch Motronic M3.1** 

Model: 325i

Year: 1992-96

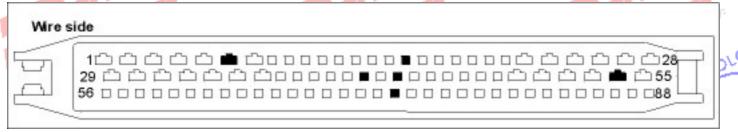
Not sure of crank pickup feedback appreciated Comments:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

## **ECU Pin Out**



#### Wiring Diagram

## **Global Settings** Cylinders

Teeth per turn(incl miss) Teeth per firing 20 Modes System Config Positive input pol Positive output pol ON Low level input

6

60

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 54 73 41 43 6 16 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in 17 White/Blue Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Black/blue 14 Pullup 15 Black/Blue Sensor (43) position Pullup Sensor Green Injector and hrottle 22 Black/Brown Crark ò Lambdain

**ENGINE** 

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The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

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OVEF

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ECU make: Bosch motronic 3.1

Model: M3 3.2 Double Vanos (E36) (S50 B32)

Year: 1997

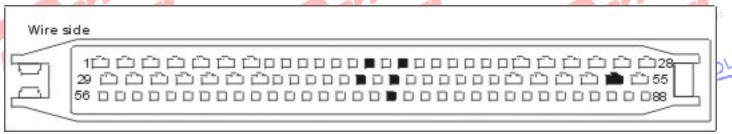
Comments:

ECU Location: Engine bay behind fuse box

Click here to return to BMW Menu.

Vehicle make:

**ECU Pin Out** 



Wiring Diagram

#### Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
-	

Click here for an explanation on how to use the global settings.

				VVII	ing Diagram		_		
			ECL	<u> </u>			ě		
54	14	73	41	16	43	Red Power	13 13	o	
		•				Power Black Ground Brown Analog defl Violet Analog out Blue Analog in White/Blue Digital out White/Red Digital in Pink Biplri gn out	1 7 18 6 17 5	SMT6 WIRING HARNESS	
Power	Ground	Throttle position sensor	MAP sensor	Crank shaft sensor	Crank shaft sensor (43)	Uniplrign out Yellow Ign in Black/blue Pullup Black/Blue Pullup Green Injector and Lambdain	14 15 9 22	SMT6	

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Ref: BMW890.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

**ENGINE** 

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## Perfect Power Wiring Diagram

erfect Ver

ECU make: Motronic

Model: 325

Year: 1982-88

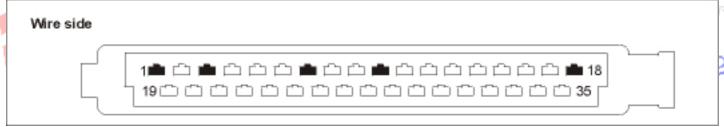
Comments:

ECU Location: Glove box

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 18 10 7 1 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Airflow sensor Pullup Output to coil Green Injector and Ground 22 Black/Brown Lambdain

## Global Settings

Cylinders 4
Teeth per turn(incl miss) 2
Teeth per firing 1
Modes 10
System Config
Positive input pol ON
Positive output pol ON
Low level input OFF
Interlaced OFF

Click here for an explanation on how to use the global settings.

ENGINE \_\_\_\_

Date: 24 Mar 2004 Page: 41

Ref: BMW455.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Motronic

325e 🔿 😉 Model:

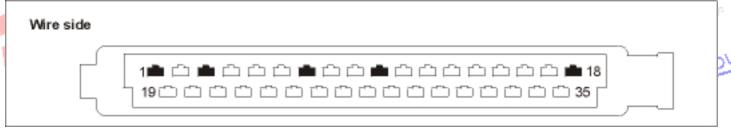
1982-88 Year:

Comment

**ECU Location:** Glove box Vehicle make:

Click here to return to BMW Menu.

## **ECU Pin Out**



# Wiring Diagram

#### **ECU** Pin no. 18 10 7 1 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Airflow sensor Pullup Output to coil Green Injector and

## **Global Settings**

Cylinders Teeth per turn(incl miss) Teeth per firing Modes 10 System Config Positive input pol Positive output pol Interlaced

Click here for an explanation on how to use the global settings.

Ground 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 42

Ref: BMW456.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

**ENGINE** 



ECU make: Motronic

528e 💍 😉 Model:

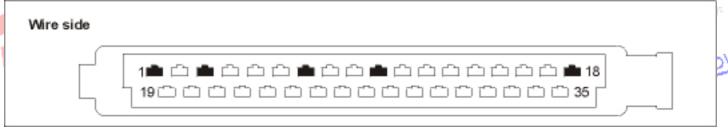
1982-88 Year:

Comment

**ECU Location:** Glove box Vehicle make:

Click here to return to BMW Menu.

## **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 18 10 7 1 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Airflow sensor Pullup Output to coil Green Injector and Ground 22 Black/Brown

## **Global Settings**

Cylinders Teeth per turn(incl miss) Teeth per firing Modes 10 System Config Positive input pol Positive output pol Interlaced

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 43

**ENGINE** 

Ref: BMW457.pdf

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Lambdain

erfect oww.perfectpower.com

ECU make: Motronic

Model: 533i

Year: 1982-88

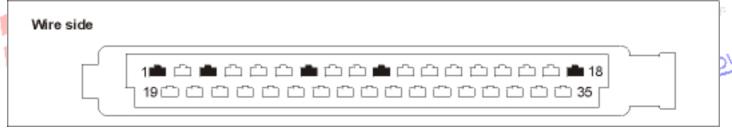
Comments

ECU Location: Glove box

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



#### **Wiring Diagram**

#### **ECU** Pin no. 18 10 7 1 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in

Output to coil

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	2
Teeth per firing	1
Modes	10
System Config	
Positive input pol	ON
Positive output pol	ON
Interlaced	OFF

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Ground

Airflow sensor

**ENGINE** 

Date: 24 Mar 2004 Page: 44

Ref: BMW458.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Black/blue Pullup Black/Blue

Injector and

Black/Brown Lambdain

Pullup

Green

14

15

erfect over ectpower.com

ECU make: Motronic

Model: 535i

Year: 1982-88

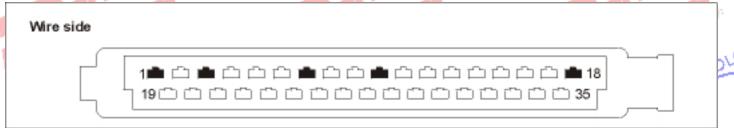
Comments:

ECU Location: Glove box

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 18 10 7 1 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15

Output to coil

## Global Settings

Cylinders 4
Teeth per turn(incl miss) 2
Teeth per firing 1
Modes 10
System Config
Positive input pol ON
Positive output pol ON
Interlaced OFF

Click here for an explanation on how to use the global settings.

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Ground

Airflow sensor

**ENGINE** 

Date: 24 Mar 2004 Page: 45

Ref: BMW459.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Pullup

Green

Injector and

Black/Brown Lambdain

## Perfect Power Wiring Diagram

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ECU make: Motronic

Model: 535iS

Year: 1982-88

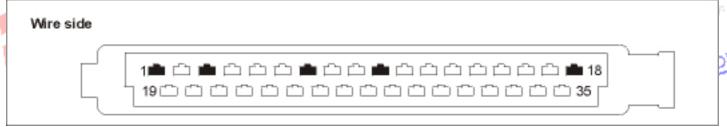
Comments

ECU Location: Glove box

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



#### **Wiring Diagram**

#### **ECU** Pin no. 10 7 1 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	2
Teeth per firing	1
Modes	10
System Config	
Positive input pol	ON.
Positive output pol	ON
Interlaced	OFF

Click here for an explanation on how to use the global settings.

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Ground

Airflow sensor

**ENGINE** 

Date: 24 Mar 2004 Page: 46

Output to coil

Ref: BMW460.pdf

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Yellow Ignin

Pullup

Green

Black/blue Pullup Black/Blue

Injector and

Black/Brown Lambdain 14

15

10

## Perfect Power Wiring Diagram

eet

**ECU** 

7

Airflow sensor

**ENGINE** 

ECU make: Motronic

Model: 635Si

Year: 1982-88

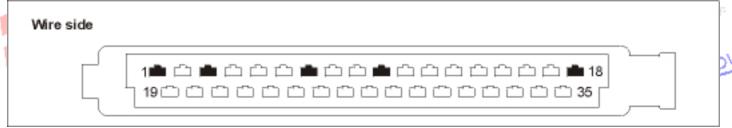
Comments:

ECU Location: Glove box

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



#### **Wiring Diagram**

#### 

Analog in White/Blue

Digital out

White/Red Digital in

Biplrign out

Uniplrign out

Black/blue Pullup Black/Blue

Injector and

Black/Brown Lambdain

Pink

White

Yellow Ignin

Pullup

Green

Violet 18 (Analog out 6 L

HARN

17

5

19

8

14

15

22

Click here for an explanation on how to use the global settings.

Teeth per turn(incl miss)

Positive input pol

Positive output pol

**Global Settings** 

10

ON

Cylinders

Modes

Teeth per firing

System Config

Interlaced

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Ground

Date: 24 Mar 2004 Page: 47

Output to coil

Ref: BMW461.pdf

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10

## **Perfect Power Wiring Diagram**



ECU make: Motronic

Model: 635CSi 💆

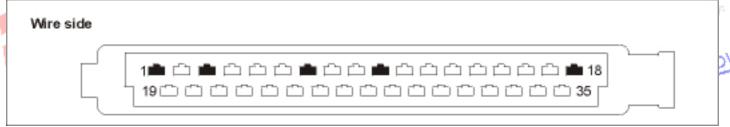
1982-88 Year:

Comment

**ECU Location:** Glove box Vehicle make:

Click here to return to BMW Menu.

## **ECU Pin Out**



#### Wiring Diagram

**ECU** 

7

#### Pin no. 1 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet

Analog out

Analog in White/Blue

Digital out

White/Red Digital in

Blue

Pink

6 17

5

19

22

HARN

Click here for an explanation on how to use the global settings.

Teeth per turn(incl miss)

Positive input pol

Positive output pol

**Global Settings** 

10

ON

Cylinders

Modes

Teeth per firing

System Config

Interlaced

Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Airflow sensor Pullup Output to coil Green Injector and

**ENGINE** 

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Ground

Date: 24 Mar 2004 Page: 48

Ref: BMW462.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Black/Brown Lambdain

**ECU** 

ECU make: Motronic

Model: 733i 👝 😉

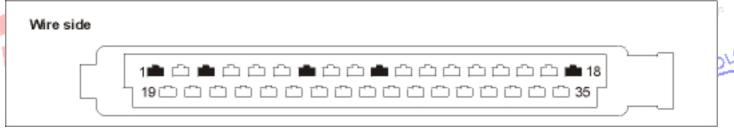
1982-88 Year:

Comment

**ECU Location:** Glove box Vehicle make:

Click here to return to BMW Menu.

## **ECU Pin Out**



#### Wiring Diagram

#### Cylinders Teeth per turn(incl miss) Pin no. Teeth per firing Red 13 Modes System Config Power Positive input pol Black 1 Positive output pol Ground Interlaced 7 Brown Analog defl

Click here for an explanation on how to use the global settings.

**Global Settings** 

10

ON

18 10 7 1 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Airflow sensor Pullup Output to coil Green Injector and Ground 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 49

Ref: BMW463.pdf

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ECU make: Motronic

Model: 735i

Year: Motronic

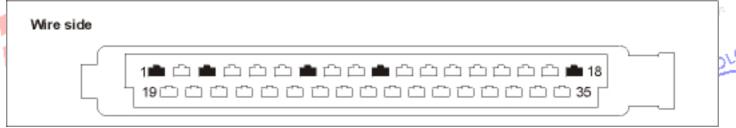
Comments

ECU Location: Glove box

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



#### **Wiring Diagram**

#### **ECU** Pin no. 18 10 7 1 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplini gnout White Uniplrign out 8 Yellow Ign in

Output to coil

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	2
Teeth per firing	1
Modes	10
System Config	
Positive input pol	ON
Positive output pol	ON
Interloced	OFF

Click here for an explanation on how to use the global settings.

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Ground

Airflow sensor

**ENGINE** 

Date: 24 Mar 2004 Page: 50

Ref: BMW464.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Black/blue Pullup Black/Blue

Injector and

Black/Brown Lambdain

Pullup

Green

14

15



Siemens MS 42 ECU make:

Model: Z3 2.0 (20 6S 4)

1999-02 Year:

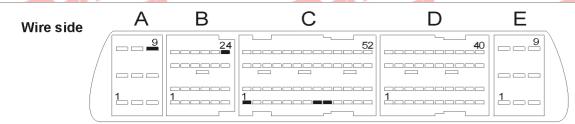
Comments

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

## **ECU Pin Out**



#### Wiring Diagram

# **Global Settings**

Cylinders Teeth per turn(incl miss) 60 Teeth per firing 30 Modes System Config Positive input pol Positive output pol Low level input

Click here for an explanation on how to use the global settings.

		-	E(	711			
- 0.0	Do.	- 00	1	1		Pin n	٥.
A9	B24	C9	C1	C8	Red	13	
,					Power		
					Black	1	
					Ground		
		١,			Brown	. 7	
					Analog de		
					Violet	18	S
					Analog ou	6	8
					Blue	-	<b>"</b>
					Analog in White/Blu	e 17	조
					Digital out	. +-	⊈
					White/Red	5	<u> </u>
					Digital in		SMT6 WIRING HARNESS
					Pink	19	
l					Biplrign o	ut 🔲	
				-	White	20	
					Uniplrign		9
					Yellow	8	
		30.			Ign in	— II	중네
		ě			Black/blu	14	9/
		ဗ		801	Pullup Black/Blue	15	
		ţio		l e	Pullup	* 1	
		iso	308	#		<u></u>	
		و د	, <u>w</u> ,	l å	Green Injector a		
န္	Š	ŧ	8	뽈	<u>Injector q</u> Black/Bro	wn 22	
Power	Ground	Throttle position sensor	Airflow signal	Crankshaft sensor	Lamb da i r		
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Date: 24 Mar 2004 Page: 54

**ENGINE** 

Ref: BMW151.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Siemens MS 42

Model: Z3 2.8 (28 6S 2)

Year: 1999-02

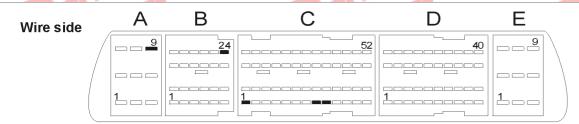
Comments:

ECU Location: Left hand side of engine bay viewed from front of car.

Click here to return to BMW Menu.

Vehicle make:

#### **ECU Pin Out**



#### Wiring Diagram

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON

Click here for an explanation on how to

use the global settings.

#### **ECU** Pin no. Α9 B24 C9 C1 C8 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White

Crankshaft sensor

Airflow signal

**ENGINE** 

White Uniplrignout Yellow Ignin

8

14

15

Black/Blue Pullup Green

Black/blue

Pullup

Injector and
Black/Brown 22

Lambdain

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Ground

Throttle position sensor

Date: 24 Mar 2004 Page: 55

Ref: BMW152.pdf

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Siemens MS 42 ECU make:

520i (E39) (25 6S 4)

1998-02 Year:

Comments

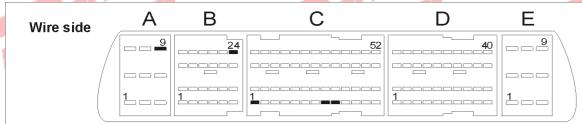
Model:

**ECU Location:** 

Click **here** to return to **BMW** Menu.

Vehicle make:

#### **ECU Pin Out**



Wiring Diagram

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON

Click here for an explanation on how to use the global settings.

		- 4	<i>y</i>		- Diagram		-		
			E	<u>:U                                    </u>					
A9	B24	C9	C1	C8		Red	)  13	<u>°.</u>	
						Power	H		-
						Black	1 1		
	1					Ground			
		١.				Brown	_7_		1
		'				Analog defl			
						Violet	18	(n)	
						Analog out	ا . ا	Ŭ.	
						Blue	6	ᄬ	
						Analog in	┨╻╻┃		
						White/Blue	17	Ø	ſ
						Digital out White/Red	15	工	
						Digital in	$\vdash$	의	
						Pink	19		1
						Biplrign out		K	1
						White	20	SMT6 WIRING HARNESS	
						Uniplrign out	$\Box$	9	
						Yellow	8		
		50				Ign in	┨	송	
		ë				Black/blue	14	0/	
		S L		SOI		Pullup Black/Blue	15		
		ţį	<u></u>	l g		Pullup	13		
		iso	908	l #		Green	ا وا		
	ا ح	9	(g)	Sh8		Injector and			1
Š		₹		홑		Black/Brown	22		1
Power	Ground	Throttle position sensor	Airflow signal	Crankshaft sensor		Lambdain			
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Date: 24 Mar 2004 Page: 56

**ENGINE** 

Ref: BMW147.pdf

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Siemens MS 42 ECU make:

523i (E39) (20 6S 4)

1998-02 Year:

Comments

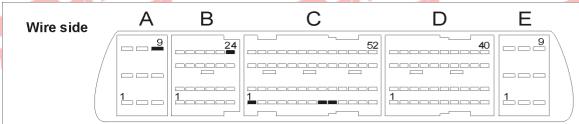
Model:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

#### **ECU Pin Out**



#### Wiring Diagram

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON

Click here for an explanation on how to use the global settings.

Positive output pol

			E(	<u>CU</u>		3		
Α9	B24	C9	C1	C8		<u>P</u> in n	<u>o.</u>	
	D2.		•	•	Red	13		ı
					Power			L
					Black	1		ı
	]				Ground			П
					Brown	7		П
		1			Analog defl			ı
					Violet	18	//	ı
			·		Analog out		186	ı
					Blue	6	ш	ı
			-		Analog in		13	ı
					White/Blue	17	뚥	L
					Digital out		] 구	ı
					White/Red	5	70	ı
					Digital in		>	ı
					Pink	19		П
					Biplri gnout		품	П
					White	20	WIRING HARNESS	ı
					Uniplrign out		9	l
					Yellow	8_	1	ı
		5			Ign in		15	l

Green Injector and Black/Brown

Black/blue Pullup

Black/Blue Pullup

Lambdain

15

22

Crankshaft sensor **ENGINE** 

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Ground

Throttle position senso

Airflow signal

Date: 24 Mar 2004 Page: 57

Ref: BMW148.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Siemens MS 42

528i (E39) (28 6S 2)

Year: 1998-02

Comments

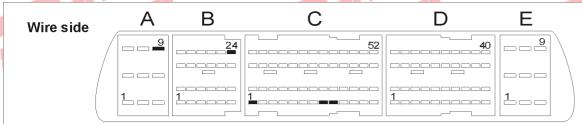
Model:

**ECU Location:** 

Click **here** to return to **BMW** Menu.

Vehicle make:

#### **ECU Pin Out**



**Wiring Diagram** 

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON C

Positive input pol ON Positive output pol ON

Click <u>here</u> for an explanation on how to use the global settings.

		-	E	21.1		1		
**		00		1	F	ll Pin n	٥.	
A9	B24	C9	C1	C8	Red	]13	Ť	
1					Power	$\overline{}$		
					Black	1		
	1				Ground			
					Brown	7		
		'			Analog defl			
					Violet	18	اما	
					Analog out		XX	
					Blue	6	쁘	
					Analog in	ا ـ ـ ا	[2]	
					White/Blue	17	ব	
					Digital out White/Red	5	エ	ı
					Digital in	-	9	
					Pink	19	Z	
					Biplrignout	17	Z	
					White	20	S	
					Uniplrign out	20	SMT6 WIRING HARNESS	
					Yellow	8	2	
		_			Ign in		ו≥ו	
		)SC			Black/blue	14	ဟ	
		Sel		b	Pullup			
		6		80	Black/Blue	15		
		siti	اع	8	Pullup			
		Throttle position sensor	Airflow signal	Crankshaft sensor	Green	9		
<u>_</u>	اع ا	i e	∛	୍ର	Injector and			
Power	Ground	t	É	au	Black/Brown	22		
8	ပ်	두	Αir	ပ်	Lambdain			

**ENGINE** 

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Date: 24 Mar 2004 Page: 58

Ref: BMW149.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a <u>guideline</u> only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Siemens MS 42

Model: 728i (E28) (28 6S 2)

Year: 1998-02

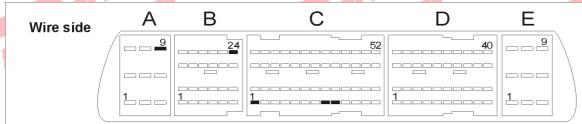
Comments:

**ECU Location:** 

Click **here** to return to **BMW** Menu.

Vehicle make:

#### **ECU Pin Out**



#### Wiring Diagram

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
	0.21

Positive input pol Ol Positive output pol Ol

Click <u>here</u> for an explanation on how to use the global settings.

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			EC	CU				
A9	B24	C9	C1	C8	Red	Pin n   13	<u>~</u>	
٠,					Power	13	- 1	_
					Black	$\dashv_{1}$		
	1				Ground	<u> </u>	1	
					Brown	7		1
		1			Analog defl		1	
					Violet	18	m	
					Analog out		Ŭ	
					Blue	6	ᆝ빌	
					Analog in	<u>ا۔۔</u>		
					White/Blue	17	ব	ď
					Digital out   White/Red	<b>⊣</b> 5	工	-
					Digital in	_ <del> </del> →	9	
					Pink	<b>⊣</b> 19	z	
					Biplrign out	1		١
					White	20	SMT6 WIRING HARNESS	
					Uniplrign ou		[6]	
					Yellow	- 8	ا تا ا	
		Ö			Ign in	$\neg$	돗	
		918		,	Black/blue	14	07	
		õ		ρ	Pullup	<u>ا۔۔</u>		
		ţį	_	e i	Black/Blue	15		
		osi	gue	° ±	Pullup	$\dashv$		
		Č.	sic	ř.	Green	9		
ğ	🛓	ŧ	8	볼	<u>Injector gnd</u> Black/Brown	— <sub>22</sub>		1
Power	Ground	Throttle position sensor	Airflow signal	Crankshaft sensor	Lambdain			
ш.			=1					

**ENGINE** 

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Ref: BMW 150.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: **Bosch Motronic M3.3** 

Model: 740i (E38)

1994-96 Year:

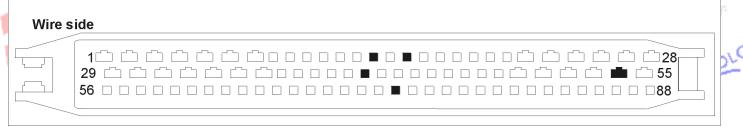
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

## **ECU Pin Out**



#### Wiring Diagram

**ECU** 

#### Pin no. 54 14 73 41 16 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON

Click here for an explanation on how to use the global settings.

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Ground

Ø

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**ENGINE** 

Date: 24 Mar 2004 Page: 60

Ref: BMW118.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Green

Injector and

Black/Brown

Lambdain

ECU make:

Model: M5 24V

Year:

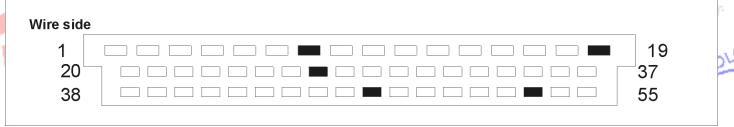
Comments:

ECU Location: Plastic box right side of engine bay

Click **here** to return to **B**MW Menu.

Vehicle make: BMW

## **ECU Pin Out**



#### Wiring Diagram

#### **Global Settings**

_		
•	1	<b>N</b>
•	,	IV

4
60
30
<b>-4</b> (
NO
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ON
ON
OFF
OFF
OFF
OFF

Click here for an explanation on how to use the global settings.

		E(	CU				
37	19	7	47			in n	<u> </u>
		-			Red	13	
					Power		
					Black	1	
					Ground		
					Brown	7	
				1	Analog defl		
					Violet	18	اما
		20			Analog out		l W l
					Blue	6	Ш
					Analog in		몽
				2 1	White/Blue	17	뚥
					Digital out		ᆍᅵ
					White/Red	5	70
					Digital in		>
					Pink	19	
					Bipling out		벌
					White	20	SMT6 WIRING HARNESS
					Uniplrign out		اما
				200	Yellow	8	ΙĒΙ
					Ign in		اقا
					Black/blue	14	ဟ
			5		Pullup		
			5		Black/Blue	15	
		ь	8		Pullup		
		PISO	#		Green	9	
	D		L C		Injector and		
ā	5	L	1		Black/Brown	22	
Power	Brunais	Y.A.F	Cranks haft sensor		Lambdain		
-	<u> </u>	[ [	~				

**ENGINE** 

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Date: 24 Mar 2004 Page: 61

Ref: BMW132.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make:

Model: 540

Year: 1997

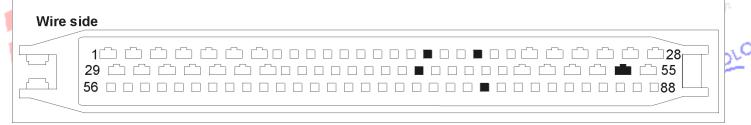
Comments:

ECU Location: Engine bay left under aircon filters

Click here to return to BMW Menu.

Vehicle make: BMW

#### **ECU Pin Out**



#### Wiring Diagram

# Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 54 20 44 17 78 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Airflow signal Green Injector and Ground Power 22 Black/Brown Lambdain

**ENGINE** 

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Ref: BMW133.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Bosch Motronic 5.2

Model: 318iS/Coupe (E36)

Year: 1996-99

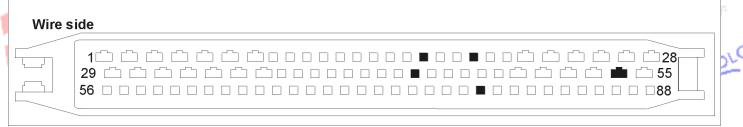
Comm<mark>en</mark>ts: Ensure wiring is correctly insulated in the engine bay

ECU Location: Left hand side of engine bay below wiper box

Click here to return to BMW Menu.

Vehicle make:

#### **ECU Pin Out**



#### Wiring Diagram

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
-	

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 54 20 44 17 78 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in 17 White/Blue Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Airflow signal Green Injector and Ground 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 63

Ref: BMW134.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

**ENGINE** 



ECU make:

**Bosch Motronic 5.2** 

Model:

318Ti Compact (E36)

Year:

1996-00

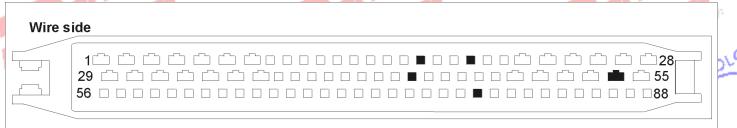
Comments:

ECU Location:

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



#### Wiring Diagram

#### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON O
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 54 20 44 17 78 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Airflow signal Green Injector and Ground 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 64

Ref: BMW135.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

**ENGINE** 



Siemens MS 42 ECU make:

320i (E46) (20 6S 4)

1998-02 Year:

Comments

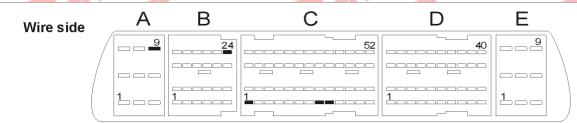
Model:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

#### **ECU Pin Out**



Wiring Diagram

#### **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
-	

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. Α9 B24 C9 C1 C8 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15

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Ground

Airflow signal

**ENGINE** 

Date: 24 Mar 2004 Page: 65

Ref: BMW144.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Pullup

Green

Injector and

Black/Brown Lambdain

22



ECU make: Siemens MS 42

323i (E46) (25 6S 4)

Year: 1998-02

Comments:

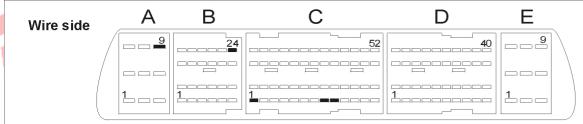
Model:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

#### **ECU Pin Out**



Wiring Diagram

#### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	<b>OFF</b>
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
•	

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. Α9 B24 C9 C1 C8 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Airflow signal Green Injector and Ground 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 66

Ref: BMW145.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Siemens MS 42

328i (E46) (28 6S 2)

Year: 1998-02

Comments:

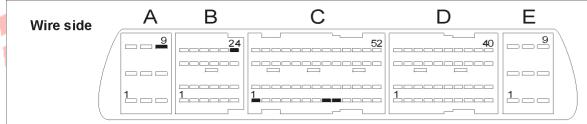
Model:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

#### **ECU Pin Out**



#### Wiring Diagram

## Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. Α9 B24 C9 C1 C8 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Airflow signal Green Injector and Ground 22 Black/Brown Lambdain

**ENGINE** 

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Ref: BMW146.pdf



ECU make: **Bosch Motronic M3.3** 

Model: 730i (E32)

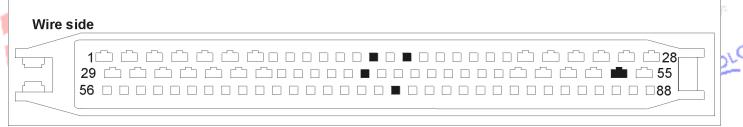
1992-94 Year:

**ECU Location:** 



Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

			P.		ing Diagram	1	_	
			E(	CU				
54	14	73	41	16		Red	Pin n ]13	<u> </u>
,						Power Black	1	
	1					Ground		
		١ ,				Brown Analog defl	7	
						Violet Analog out	18	တ္က
						Blue	6	ES
						Analog in	-[]	몽
						White/Blue	17	◁
						Digital out White/Red	5	工
						Digital in	$\Box$	91
						Pink	19	
						Biplrign out	ᅒ	ΊK
						White Uniplrign out	20	SMT6 WIRING HARNESS
						Yellow	_8_	$\mathbb{H}$
		ő				Ign in	ᅒ	홌
		eus				Black/blue	14	07
		S _		180		Pullup Black/Blue	15	
		ej	5	Ser		Pullup	1	
		800	sensor	aff.		Green		
L	ع	le le	8	ଜ		Injector and		
Power	Ground	Throttle position sensor	M.A.S	Cranksh <i>a</i> ft sensor		Black/Brown	22	
ď	ပ်	=	Σ.	ပ်		Lambdain	ا ل	
	I	l			I			

**ENGINE** 

#### **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 67

Ref: BMW115.pdf



ECU make: Bosch Motronic M3.3

Model: 730i (E38)

Year: 1994-96

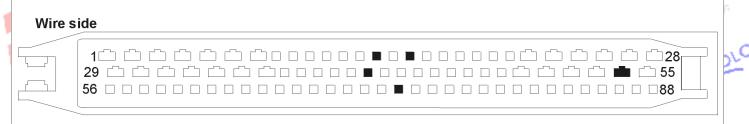
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

			F /	21.1			1		
F .		7.0	E(	1	I		ll Pin n	٥.	
54	14	73	41	16		Red	]13	Ť	
1						Power			
						Black	1		
	'					Ground			
		١.				Brown	7		
		'				Analog defl			
						Violet	18	اما	
						Analog out		XX	
						Blue	6	SMT6 WIRING HARNESS	
						Analog in	ا . ـ ا	≲	
						White/Blue	17	ব	
						Digital out	5	エ	
						White/Red	J	9	
						Digital in	19	z	
						Pink	17	Z	
						Biplini gnout	20	5	
						White Uniplrignout	20	>	
						Yellow	8	9	
		_			<u> </u>	Ign in	Ť	ᄝ	
		980				Black/blue	14	$  \overline{\Omega}  $	
		Ser		<b>5</b>		Pullup			
		5		)Š		Black/Blue	15		
		si <u>ti</u>	ĕ	Se		Pullup			
		ő	sensor	a∰		Green	9		
_	ਬੂ	9	Š	S.		Injector and			
ş	Ground	Į į	୍ଷ -	Crankshaft sensor		Black/Brown	22		
Power	<u>ឆ</u>	Throttle position sensor	M.A.S	تّ ا		Lambdain			
				_		-			

**ENGINE** 

#### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Ref: BMW116.pdf



ECU make: **Bosch Motronic M3.3** 

Model: 740i (E32)

1992-94

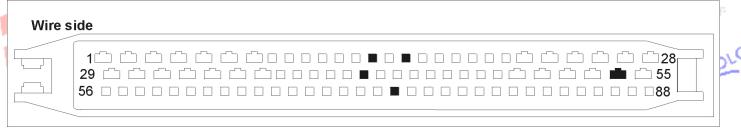
Comments:

**ECU Location:** 

Vehicle make:

Click here to return to BMW Menu.

### **ECU Pin Out**



Wiring Dia

iagram	Global Settings
	Culindona

Teeth per turn(incl miss) 60 Teeth per firing 30 Modes System Config Positive input pol ON Positive output pol ON Low level input ON High frequency OFF Interlaced OFF One missing tooth OFF Lambda Input **OFF** 

Click here for an explanation on how to use the global settings.

**ECU** Pin no 54 14 73 41 16 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yello w Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue sensor Pullup Green Injector and Ground Power Ø 22 Black/Brown ۹ Lambdain **ENGINE** 

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Date: 24 Mar 2004 Page: 69

Ref: BMW117.pdf

ECU make:

Model: 540 Year: 1998

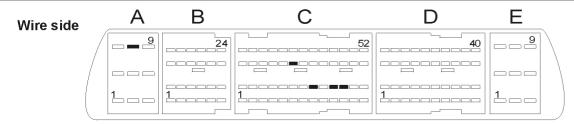
Comments:

ECU Location: Engine bay left under aircon filters

Click here to return to BMW Menu.

Vehicle make: BMW

#### **ECU Pin Out**



#### Wiring Diagram

## **Global Settings** Cylinders

Teeth per turn(incl miss) 60 Teeth per firing 30 Modes System Config Positive input pol Positive output pol ON Low level input ON High frequency OFF Interlaced OFF One missing tooth OFF Lambda Input **OFF** Click here for an

explanation on how to use the global settings.

#### **ECU** Pin no. 21 24 23 32 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Airflow signal Green Injector and Ground Power 22 Black/Brown Lambdain

**ENGINE** 

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Date: 24 Mar 2004 Page: 70

Ref: BMW136.pdf



ECU make: Bosch Motronic M3.3.1

Model: 520i 24V Vanos (E34)

Year: 1992-96

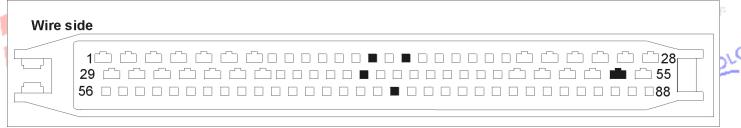
Comments:

ECU Location: Passenger shock tower

Vehicle make: BMW

Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 54 14 73 41 16 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Green Injector and Ground Ø 22 Black/Brown ۹ Lambdain

**ENGINE** 

#### Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 71

Ref: BMW104.pdf



ECU make:

**Bosch Motronic 3.1** 

Model:

3.2 M3 Double Vanos

Year:

Comments:

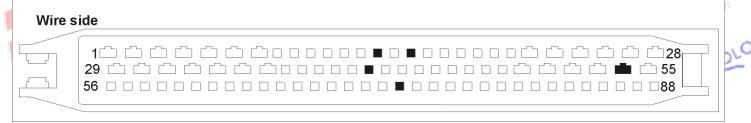
**ECU Location:** 

Engine by left side in wiper box

Click here to return to BMW Menu.

Vehicle make:

#### **ECU Pin Out**



#### Wiring Diagram

#### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON O
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 54 14 73 41 16 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Green Injector and Ground Ø 22 Black/Brown ۹ Lambdain

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Date: 24 Mar 2004 Page: 72

Ref: BMW102.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Bosch Motronic M3.3.1

Model: 325i 24V Vanos (E36)

Year: 1992-97

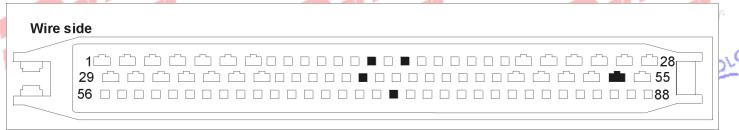
Comments:

ECU Location: Behind battery console

Vehicle make: BMW

Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 54 14 73 41 16 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Green Injector and Ground Ø 22 Black/Brown ۹ Lambdain

**ENGINE** 

## Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Date: 24 Mar 2004 Page: 73

Ref: BMW103.pdf



ECU make: Bosch Motronic M3.3.1

Model: 525i 24V Vanos (E34)

Year: 1992-96

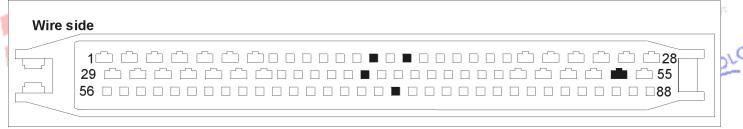
Comments:

ECU Location: Passenger shock tower

Vehicle make: BMW

Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 54 14 73 41 16 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Green Injector and Ground Ø 22 Black/Brown ۹ Lambdain

## Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 74

**ENGINE** 

Ref: BMW 105.pdf

ECU make:

Model: 2.0 & 2.5 24V no Vanos

Year:

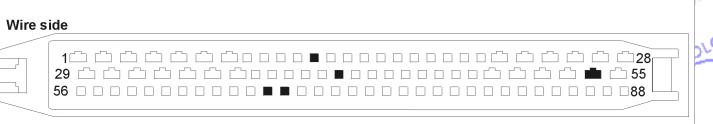
Comments:

5 series right hand side engine bay, 3 series left side in wiper **ECU Location:** 

Click here to return to BMW Menu.

Vehicle make: BMW

#### **ECU Pin Out**



#### Wiring Diagram

		1 2				-6.60	n:		
			E(	1			<u> </u>	_	
54	68	12	41	67		Red	jin n ]13	<u>~</u>	
. 1						Power	10		
						Black	1		
	1					Ground	_		
						Brown	1 7 1		
		1				Analog defl			
						Violet	18	ایرا	
			· '			Analog out		18/1	
						Blue	6	ш	
						Analog in		몽	
						White/Blue	17	౼	
						Digital out		ÌÌ	
						White/Red	5	ပြ	
						Digital in	┨╻╻╿	Ž	
						Pink	19	SMT6 WIRING HARNESS	
						Biplrign out	┨╻╻╿	IJ	
						White	20	5	
						Uniphrign out	8	9	
				-	l .	Yellow Ign in	l °	ļţ	
		စ္တ				Black/blue	14	ကြ	
		je		_		Pullup			ı
		اچّا		ဗို		Black/Blue	15		
		∺	<u> </u>	sel		Pullup			
		%	sensor	Ħ		Green	9		
_	ا و	<u>e</u>		Ę Ę		Injector and			
ş	ļ ja	#	ഥ	뚩		Black/Brown	22		
Power	Ground	Throttle position sensor	V.A.F	Crankshaft sensor		Lambdain			
	-			_	l	•			į

#### **Global Settings**

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced /	OFF
One missing tooth	OFF
Lambda Input	OFF
- Marie 1997	

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Date: 24 Mar 2004 Page: 75

**ENGINE** 

Ref: BMW106.pdf



54

68

12

ECU make:

Bosch Motronic M1.7

Model: 316i (E36) (16 4E 1)

1991-93 Year:

Comments:

**ECU Location:** 



Click here to return to BMW Menu.

**Global Settings** 

60

30

ON

ON

ON

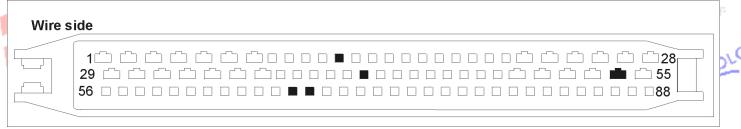
OFF

OFF

OFF

**OFF** 

#### **ECU Pin Out**



#### Wiring Diagram

**ECU** 

41

#### Cylinders Teeth per turn(incl miss) Pin no 67 Teeth per firing Red 13 Modes System Config Power Positive input pol Black 1 Positive output pol Ground Low level input 7 High frequency Brown Interlaced Analog defl One missing tooth 18 Violet Lambda Input Analog out 6 Blue Analog in

Click here for an explanation on how to use the global settings.

#### HARN White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yello w Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup sensor Green Injector and Ground Power ш 22 Black/Brown Lambdain

**ENGINE** 

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Date: 24 Mar 2004 Page: 76

Ref: BMW107.pdf



ECU make: Bosch Motronic M1.7

Model: 318i (E36) (18 4E 1)

Year: 1991-93

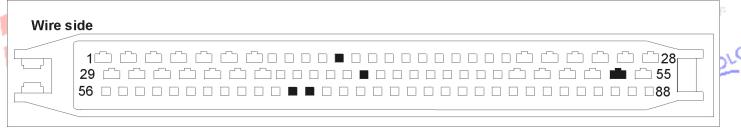
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

### **ECU Pin Out**



#### Wiring Diagram

SS				×		ing Diagram		_		
Red   13   Power   Black   1   Ground   Brown   7   Analog defl   Violet   18   Analog out   Blue   6   Analog in   White/Blue   17   Digital out   White/Red   5   Digital in   Pink   19   Biplrign out   White   20   Uniplrign out   Yellow   8   Ign in   Black/Blue   14   Pullup   Black/Blue   15   Pullup   Black/Blue   15   Pullup   Green   9   Injector and   Ign in				EC	CU					
Power Black Ground Brown Analog defl Violet Analog out Blue Analog in White/Blue Digital out White/Red Digital in Pink Biplrign out White Uniplrign out Yellow Ign in Black/blue Pullup	54	68	12	41	67				o. 	
Ground   From	•						Power	$\Box$		
Analog defl Violet 18 Analog out Blue 6 Analog in White/Blue 17 Digital out White/Red 5 Digital in Pink 19 Biplrign out White 20 Uniplrign out Yellow 8 Ign in Black/blue 14 Pullup Black/Blue 15 Pullup Green 9 Injector and		1					-			
Analog out Blue Analog in White/Blue Digital out White/Red Digital in Pink Biplri gn out White Uniplri gn out Yellow Yellow Ign in Black/blue Pullup Black/Blue Pullup Black/Blue Pullup Black/Blue Pullup Green			,							١
Pullup  Black/Blue  15  Pullup  Green  9  Injector and							-	18	92	
Pullup  Black/Blue  15  Pullup  Green  9  Injector and								161	Ш	
Pullup  Black/Blue  15  Pullup  Green  9  Injector and				*			Analog in		공	
Pullup  Black/Blue  15  Pullup  Green  9  Injector and								17	취	
Pullup  Black/Blue  15  Pullup  Green  9  Injector and							Digital out	┨╕┠	エ	
Pullup  Black/Blue  15  Pullup  Green  9  Injector and								H	9	
Pullup  Black/Blue  15  Pullup  Green  9  Injector and								1191	$\leq$	
Pullup  Black/Blue  15  Pullup  Green  9  Injector and							-		$\mathbb{K}$	١
Pullup  Black/Blue  15  Pullup  Green  9  Injector and							White Uniplrign out	20	<b>≫</b>	
Pullup  Black/Blue  15  Pullup  Green  9  Injector and								╚┸	ĭ	
Pullup  Black/Blue  15  Pullup  Green  9  Injector and			į					$- \Box$	홌	
Green  Orange Pullup  Black/Blue  Pullup  Green  Gr			ű					14	07	
Green 9  Injector and Black/Brown 22  Lambdain 22			S .		1801		Pullup Black/Blue	115		
Green  Oreen  Or			:		Ser			1		
Or Shound Crankshown 75 Power Tampdain 72 Power 72 Power 72 Pambdain 72 Power 72 Pow			%	၂၂	aft			لوا		
Black/Brown 22	Ļ	g	₽		ভি		Injector and	┚		
α σ + > σ   Lambdain	98	, ñ	iot	A. ∃.	ant		Black/Brown	22		1
	ď	_ ō	=	>	ت		Lambdain	ا ل		

**ENGINE** 

#### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 77

Ref: BMW 108.pdf



ECU make: Bosch Motronic M1.7

Model: 518i (E34)

Year: 1989-95

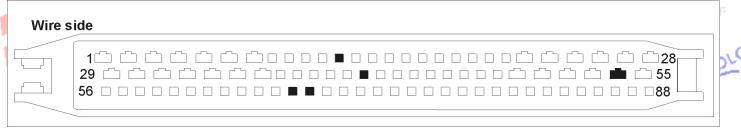
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

						and the same of th	-	
			E(	CU			Ţ	
54	68	12	41	67		Red	in n   13	å
						Power	10	
						Black	1	
	1					Ground		
		١.				Brown	7	
		'				Analog defl		
						Violet	18	(n)
						Analog out		Ο̈́
						Blue	6	l 삨 l
						Analog in		2
						White/Blue	17	₹
						Digital out  White/Red	5	エ
						Digital in	_	9
						Pink	19	Z
						Biplrignout	17	SMT6 WIRING HARNESS
						White	20	
						Uniplrign out		
						Yellow	8	1
				-		Ign in		ĮΣ
		S C				Black/blue	14	ဟ
		ဖွ		ă		Pullup		
		l ë		ans		Black/Blue	15	
		Sit	ő	t Sc		Pullup		
		ŭ	sensor	) af		Green	9	
<u>.</u>	<u> </u>	l ≡	Ø I	<u> </u>		Injector and		
Power	Ground	Throttle position sensor	V.A.F	Crankshaft sensor		Black/Brown	22	
ď	ତ	<b>=</b>	>	Ū		Lambdain	J	
	ı	ı		I	I			

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 78

**ENGINE** 

Ref: BMW 109.pdf



ECU make:

Model: 530 & 540 V8

Year:

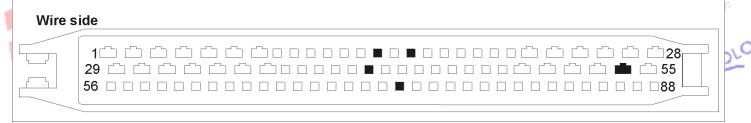
Comments:

ECU Location: Engine bay in box on right hand side

Click here to return to BMW Menu.

Vehicle make: BMW

#### **ECU Pin Out**



Wiring Diagram

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
•	

Click here for an explanation on how to use the global settings.

**ECU** Pin no. 54 14 73 41 16 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Green Injector and Ground Ø 22 Black/Brown ۹ Lambdain

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Date: 24 Mar 2004 Page: 79

Ref: BMW110.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

ECU make:

Model: 2L & 2.5L 24V with Vanos

Year:

Comments:

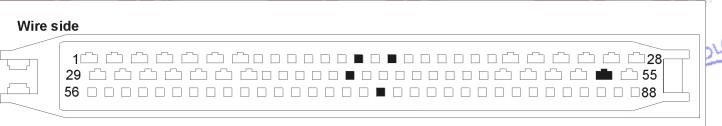
**ECU Location:** 

Plastic box on right hand side of engine bay for series 5 left hand side in wiper box for series 3

Click here to return to BMW Menu.

Vehicle make: BMW

#### **ECU Pin Out**



#### Wiring Diagram

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	~ ~
Positive input pol	ON ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### ECH Pin no 54 14 73 41 16 Red 13 Power Black Ground 7 Brown Analog defl Violet 18 Analog out 6 Blue Analog in 17 White/Blue A H Digital out 5 White/Red Ö Digital in 19 Pin k Biplinian out White Uniplrign out Yello w 8 Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 sensor Pullup Green Injector and Ground Power Ø Black/Brown 22 ۹ Lambdain Z

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Date: 24 Mar 2004 Page: 80

Ref: BMW111.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make:

Model: 3.0L M3 with Vanos

Year:

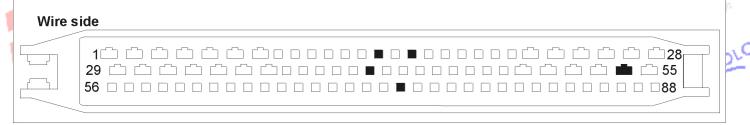
Comments:

ECU Location: Left hand side engine bay in wiper box

Click here to return to BMW Menu.

Vehicle make: BMW

#### **ECU Pin Out**



Wiring Diagram

#### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

**ECU** Pin no. 54 14 73 41 16 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Green Injector and Ground Ø 22 Black/Brown ۹ Lambdain

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Date: 24 Mar 2004 Page: 81

Ref: BMW112.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: **Bosch Motronic M3.3** 

Model: 530i (E34)

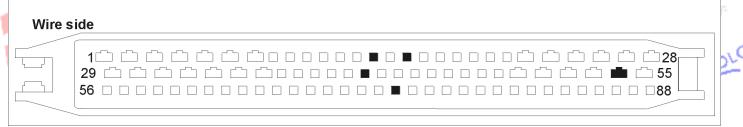
1992-96 Year:

Comments:

**ECU Location:** Passenger shock tower Vehicle make:

Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 54 14 73 41 16 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Green Injector and Ground Ø 22 Black/Brown

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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**ENGINE** 

Date: 24 Mar 2004 Page: 82

Ref: BMW113.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Lambdain



ECU make: **Bosch Motronic M3.3** 

Model: 540i (E34)

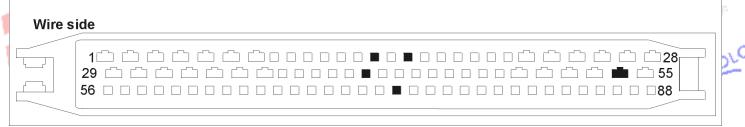
1992-96 Year:

Comments:

**ECU Location:** Passenger shock tower Vehicle make:

Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

			E	CU					
54	14	73	41	16		Red	<sup>7</sup> in n ]13	<u>°.</u>	
,						Power	$\Box$		
	٠ ،					Black Ground	1		
						Brown	7		١
		]				Analog defl	Γ.		
						Violet Analog out	18	ကြ	
						Blue	6	Ш	
						Analog in	Γ	몽	
						White/Blue Digital out	17	₹ I	
						White/Red	5	古	
						Digital in		lΣl	
						Pink Biplrignout	19	$\square$	
						White	20	SMT6 WIRING HARNESS	
						Uniplrign out		9	
		_			<u> </u>	Yellow Ign in	8	토	
		uso.				Black/blue	14	$ \Omega $	
		es (		SOF		Pullup			
		itior	5	seu		Black/Blue Pullup	15		
		Throttle position sensor	sensor	Crankshaft sensor		Green	9		
_ ev	g	i He He	လ လ	ksh		Injector and			
Power	Ground	hrod	M.A.S	ran		Black/Brown Lambdain	22		
О.	ା ଓ	⊢	25		I	23.110 03 111	_		

**ENGINE** 

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 83

Ref: BMW114.pdf

37

19

## Perfect Power Wiring Diagram



ECU make:

Model: 316 M40

Year:

Comments:

ECU Location: Under instrument panel

Vehicle make: BMW

Click here to return to BMW Menu.

**Global Settings** 

60

30

ON

ON

**OFF** 

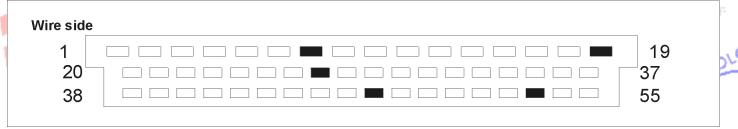
OFF

OFF

**OFF** 

per turn(incl miss)

#### **ECU Pin Out**



Blue

Pink

White

Yellow Ign in

Pullup

Green

Analog in

White/Blue

Digital out

White/Red Digital in

Biplrign out

Uniplrign out

Black/blue Pullup Black/Blue

Injector and

Black/Brown Lambdain

17

5

19

8

14

15

22

#### Wiring Diagram

ECU

7

POSLIM

щ

Crankshaft

**ENGINE** 

		- 22	Cylinders
47	Red	Pin no.	Teeth per turn(incl mi Teeth per firing Modes
	Power Black Ground	1	System Config Positive input pol Positive output pol Low level input
	Brown Analog defl	]-	High frequency Interlaced One missing tooth
-	Violet Analog out	13 g	Lambda Input

use the global settings.

Click here for an explanation on how to

Copyright Digital Technology

Sound

Power

Date: 24 Mar 2004 Page: 84

Ref: BMW119.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 316i/318i (E30)

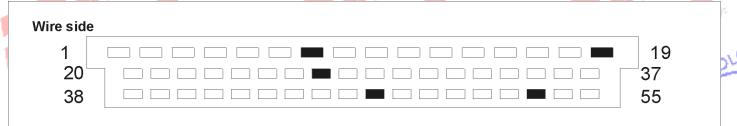
1988-93 Year:

**ECU Location:** 



Click **here** to return to **BMW** Menu.

#### **ECU Pin Out**



#### Wiring Diagram

		-	<u>vv</u>	ing Diagram		_	
		E	CU				
37	19	7	47			Pin no. 113 □	
37 Power	19 punas	7.A.F ænsor	Cranks haft sensor		Red Power Black Ground Brown Analog defl Violet Analog out Blue Analog in White/Blue Digital out White/Red Digital in Pink Biplrign out White Uniplrign out Yellow Ign in Black/blue Pullup Black/Blue Pullup Green Injector and Black/Brown Lambdain	13 1 7	SMI 6 WIKING HAKNESS
Δ.	٥		0				

**ENGINE** 

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 85

Ref: BMW120.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 320i (E30)

Year: 1986-93

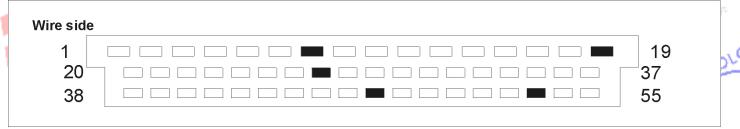
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 37 19 7 47 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Pullup POSLIM Crankshaft Green Injector and Sound Power щ Black/Brown 22 Lambdain

**ENGINE** 

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 86

Ref: BMW121.pdf

1985-93



ECU make:

Bosch Motronic M1.1/1.3

Model:

325i/325e (E30)

Comments:

**ECU Location:** 

Vehicle make:

Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

#### **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON O
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 37 19 7 47 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Pullup POSLIM Crankshaft Green Injector and Sound Power щ Black/Brown 22 Lambdain

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Date: 24 Mar 2004 Page: 87

Ref: BMW122.pdf

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ECU make: Bosch Motronic M1.1/1.3

Model: 318i (E36)

Year: 1991-93

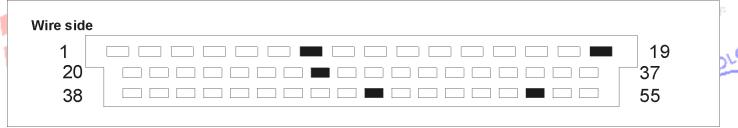
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 37 19 7 47 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Pullup POSLIM Crankshaft Green Injector and Sound Power Black/Brown 22 Lambdain

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Date: 24 Mar 2004 Page: 88

**ENGINE** 

Ref: BMW123.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 518i (E34)

1991-93 Year:

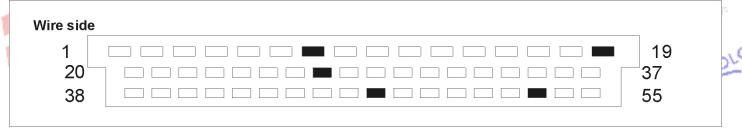
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 37 19 7 47 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Pullup POSLIM Crankshaft Green

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Sound

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**ENGINE** 

Power

Date: 24 Mar 2004 Page: 89

Ref: BMW124.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Injector and

Black/Brown

Lambdain

22



ECU make: Bosch Motronic M1.1/1.3

Model: 520i (E34)

Year: 1991-93

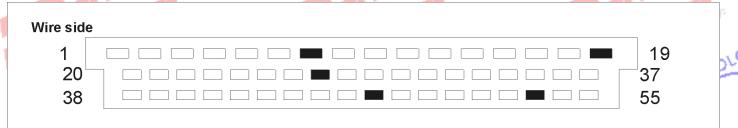
Comments:

**ECU Location:** 



Click **here** to return to **BMW** Menu.

#### **ECU Pin Out**



#### **Wiring Diagram**

				ing Diagram	-	_	
		EQ	CUU				
37	19	7	47				
37	19	200	5476.00		Red Power Black Ground Brown Analog defl Violet Analog out Blue Analog in White/Blue Digital out White/Red Digital in	13 1 7 18 00 HIVE WILLIAM STEMS	
Power	Ground	V.A.F ænsor	Cankshaft sensor		Biplrign out White Uniplrign out Yellow Ign in Black/blue Pullup Black/Blue Pullup Green Injector and Lambdain	20 % 8 LW U 14 U	Hitto Halo

**ENGINE** 

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 90

Ref: BMW125.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 525i (E34)

Year: 1988-93

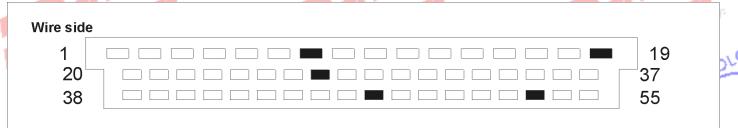
Comments:

**ECU Location:** 



Click **here** to return to **BMW** Menu.

#### **ECU Pin Out**



#### **Wiring Diagram**

				ing Diagram	-	_	
		EQ	CUU				
37	19	7	47				
37	19	200	5476.00		Red Power Black Ground Brown Analog defl Violet Analog out Blue Analog in White/Blue Digital out White/Red Digital in	13 1 7 18 00 HIVE WILLIAM STEMS	
Power	Ground	V.A.F ænsor	Cankshaft sensor		Biplrign out White Uniplrign out Yellow Ign in Black/blue Pullup Black/Blue Pullup Green Injector and Lambdain	20 % 8 LW U 14 U	Hitto Halo

**ENGINE** 

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 91

Ref: BMW126.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 530i (E34)

Year: 1988-93

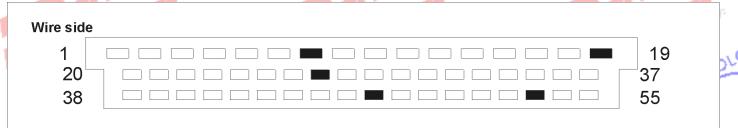
Comments:

**ECU Location:** 

Vehicle make: BMW

Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no. 37 19 7 47 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Pullup POSLIM Crankshaft Green Injector and Sound Power щ Black/Brown 22 Lambdain

**ENGINE** 

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Date: 24 Mar 2004 Page: 92

Ref: BMW127.pdf

37

19

# Perfect Power Wiring Diagram



ECU make: Bosch Motronic M1.1/1.3

Model: 535i (E34)

1988-93 Year:

Comments:

**ECU Location:** 

Vehicle make:

Click here to return to BMW Menu.

**Global Settings** 

60

30

ON

ON

ON

OFF

OFF

OFF

**OFF** 

Teeth per turn(incl miss)

Positive input pol

Low level input

High frequency

Lambda Input

Interlaced

Positive output pol

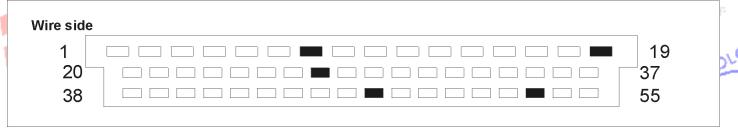
One missing tooth

Cylinders

Modes System Config

Teeth per firing

#### **ECU Pin Out**



#### Wiring Diagram

**ECU** 

7

#### Pin no 47 Red 13

Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue

Analog in

White/Blue

17

22

explanation on how to use the global settings.

# Click here for an

HARN Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Pullup POSLIM Crankshaft

**ENGINE** 

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Copyright Digital Technology

Sound

Power

Date: 24 Mar 2004 Page: 93

Ref: BMW128.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Green

Injector and

Black/Brown Lambdain



ECU make: Bosch Motronic M1.1/1.3

Model: 730i (E32)

Year: 1986-92

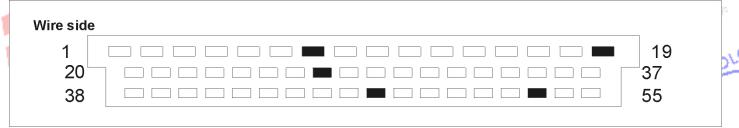
Comments:

**ECU Location:** 



Click **here** to return to **BMW** Menu.

#### **ECU Pin Out**



#### **Wiring Diagram**

				ing Diagram	-	_	
		EQ	CUU				
37	19	7	47				
37	19	200 11	5476.00		Red Power Black Ground Brown Analog defl Violet Analog out Blue Analog in White/Blue Digital out White/Red Digital in	13 1 7 18 00 UNDOWN WILWO	NING HANNESS
Power	Ground	V.A.F ænsor	Cankshaft sensor		Biplrign out White Uniplrign out Yellow Ign in Black/blue Pullup Black/Blue Pullup Green Injector and Lambdain	20 % 8 LWU 14 U	TIM O HAID

**ENGINE** 

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 94

Ref: BMW129.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 735i (E32)

Year: 1986-92

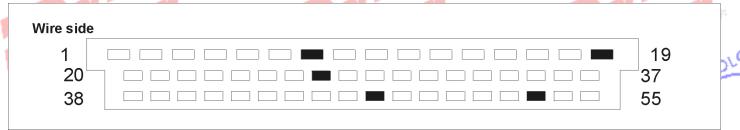
Comments:

**ECU Location:** 

Vehicle make: BMW

Click **here** to return to **BMW** Menu.

#### **ECU Pin Out**



#### Wiring Diagram

				ining Diagram		_		
		E	CU					
37	19	7	47		Red	jin n ]13[	<u>o.</u>	
1					Power	<del>۱</del> ۳		
					Black	$\lfloor {\tt 1} \rfloor$		
	1				Ground	$\Box$		
					Brown	7		1
					Analog defl			
		8.			Violet	18	က	
					Analog out	ا ـ ا	S)	
		3			Blue	6	뿌	
					Analog in	<b>┤╻</b> ╻┃		
					White/Blue	17	⊴	ĺ
					Digital out White/Red	5	工	
					Digital in	١Ť	9	
					Pink	19	$\leq$	
					Biplirign out	Н	SMT6 WIRING HARNESS	1
					White	20	3	
					Uniplrign out	$\Box$	9	
				<u> </u>	Yellow	8		
					Ign in	↓I	훘	
			0.500		Black/blue	14	٥,	
			Š		Pullup	15		
			5		Black/Blue	13		
		<b>⊕</b> ⊓Sor	# Ψ		Pullup	ا و ا		
		듧	Т		Green	H		
ā	Ĕ		ş		Injector and Black/Brown	22		1
Power	Ground	V.A.F	Crankshaft sensor		Lambdain			
۵.	ا ا		0			ا -		

**ENGINE** 

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 95

Ref: BMW130.pdf

erfect

overfectpower.com

ECU make:

Model: 318i DOHC whith timing chain (M42)

Year:

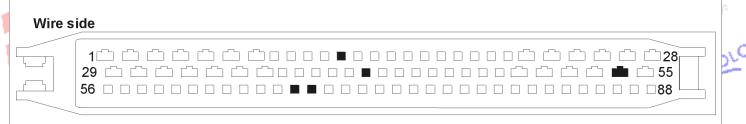
Comments:

ECU Location: Engine bay left in wiper box

Click here to return to BMW Menu.

Vehicle make: BMW

#### **ECU Pin Out**



Wiring Diagram

#### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
-	

Click here for an explanation on how to use the global settings.

**ECU** Pin no. 54 68 12 41 67 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Green Injector and Ground Power ш 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 96

Ref: BMW131.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make:

Model: 318iS with viscous fan

Year:

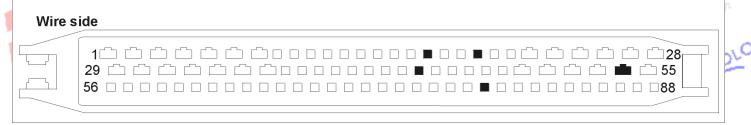
Comments:

ECU Location: Left hand side of engine bay in wiper box

Click here to return to BMW Menu.

Vehicle make: BMW

### **ECU Pin Out**



Wiring Diagram

#### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
-	

Click here for an explanation on how to use the global settings.

			1	<u>vv</u> 1	ing Diagram	and the second			
			EC	CU					
54	20	44	17	78			Pin n	<u>o.                                    </u>	
						Red	13		
						Power	┨. ┃		
	١,					Black	1		
						Ground	┨╻		
						Brown	7		ļ
						Analog defl			
						Violet	18	w	
						Analog out		め	
						Blue	6	Щ	
						Analog in		$\leq$	
						White/Blue	17	취	
						Digital out		ÌΙ	_
						White/Red	5	(5)	d
						Digital in		۶I	
						Pink	19	≡	
						Biplini gnout		SMT6 WIRING HARNESS	
						White	20	3	
						Uniphrign out		9	
						Yellow	8	$\overline{\vdash}$	
		5				Ign in		홌	
		°				Black/blue	14	(7)	
		%		ģ		Pullup			
		5		SÜ.		Black/Blue	15		-
		l Si	<u>a</u>	8		Pullup	┌		
		일	iĝi	aft		Green	9		
_	g	Throttle position sensor	4irflow signal	Crankshaft sensor		Injector and			
Power	Ground	[5]	é	교		Black/Brown	22		-
Ó	, į	∉	ρ	نّ		Lambdain			

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Date: 24 Mar 2004 Page: 97

Ref: BMW137.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make:

Model: 2.8L 24V

Year:

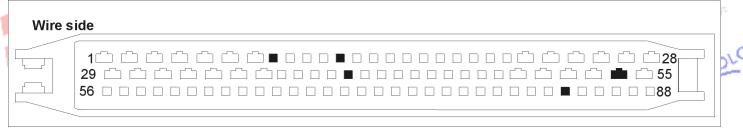
Comments:

ECU Location: Left hand side engine bay inside wiper panel

Click **here** to return to **BMW** Menu.

Vehicle make: BMW

#### **ECU Pin Out**



Wiring Diagram

Global	Settings
--------	----------

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
-	

Click here for an explanation on how to use the global settings.

**ECU** Pin no. 54 40 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Airflow signal Green Injector and Ground 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 98

Ref: BMW138.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Siemens MS 41 Vehicle make: BMV

Model: 320i Vanos (E36) (20 6s 3)

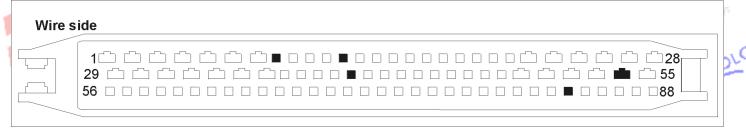
Year: 1994-99

Comments:

**ECU Location:** 

Click here to return to BMW Menu.

#### **ECU Pin Out**



#### Wiring Diagram

#### **ECU** Pin no 54 40 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Airflow signal Green Injector and Ground 22 Black/Brown Lambdain

**ENGINE** 

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 99

Ref: BMW139.pdf



ECU make: Siemens MS 41 Vehicle make: BMV

Model: 323i/Compact (E36) (25 6s 3)

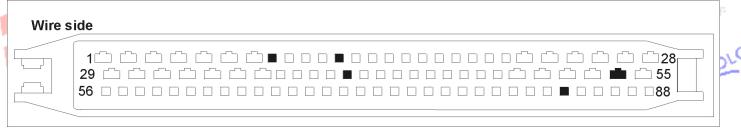
Year: 1995-00

Comments:

**ECU Location:** 

Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

**ECU** 

#### Pin no 54 40 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in

Crankshaft sensor

Airflow signal

**ENGINE** 

### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
-	

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Ground

Throttle position sensor

Date: 24 Mar 2004 Page: 100

Ref: BMW140.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Black/blue Pullup

Black/Blue Pullup

Injector and

Black/Brown Lambdain

Green

14

15

22



54

40

12

8

ECU make: Siemens MS 41

328i (E36) (28 6S 1)

1995-99 Year:

Comments

Model:

**ECU Location:** 

Click here to return to BMW Menu.

**Global Settings** 

Teeth per turn(incl miss)

Positive input pol

Low level input

High frequency

Interlaced

Positive output pol

One missing tooth

6

60

20

ON

ON

ON

OFF

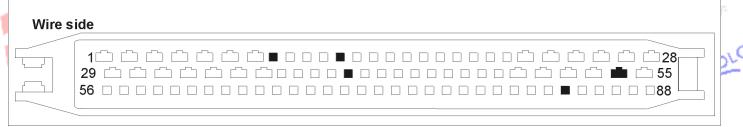
OFF

OFF

**OFF** 

Vehicle make:

### **ECU Pin Out**



### Wiring Diagram

#### **ECU** Pin no 83 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in

White/Blue

Digital out

White/Red Digital in

Biplrign out

Uniplrign out

Black/blue Pullup

Black/Blue Pullup

Injector and

Black/Brown Lambdain

Pink

White

Yello w Ign in

Green

17

5

19

8

14

15

22

Click here for an

Lambda Input

Cylinders

Modes **System Config** 

Teeth per firing

explanation on how to use the global settings.

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Ground

Throttle position sensor

Crankshaft sensor

Airflow signal

**ENGINE** 

Date: 24 Mar 2004 Page: 127

Ref: BMW141.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Siemens MS 41 Vehicle make: BMV

Model: 520i 24V Vanos (E39) (20 6S 3)

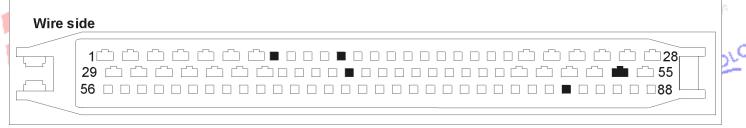
Year: 1996-00

Comments

**ECU Location:** 

Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

#### **ECU** Pin no 54 40 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Airflow signal Green Injector and Ground 22 Black/Brown Lambdain

**ENGINE** 

### Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Date: 24 Mar 2004 Page: 101

Ref: BMW142.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Siemens MS 41

Model: 528i (E39) Year: 1996-00

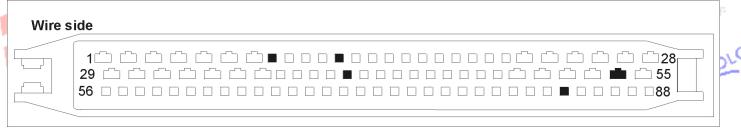
Comments: 19 TECHTON

ECU Location:

Click here to return to BMW Menu.

Vehicle make:

## **ECU Pin Out**



### Wiring Diagram

			P		ing Diagram	The second second	_		
			E	CU					
54	40	12	8	83		Red	Pin n ]13	<u>o.</u>	
•						Power	٣		
						Black	1		
						Ground	1		
		١ ,				Brown Analog defl	7		
						Violet	18		
			'			Analog out		8	
						Blue	_6_	ш	
						Analog in	┚	몽	
						White/Blue	17	취	
						Digital out	↓ _ l	Ť	
						White/Red	5	(2)	í
						Digital in	. I	ž	
						Pink	19	∌∣	
						Biplrign out	┦	ij	
						White Uniplrign out	20	SMT6 WIRING HARNESS	
						Yellow	8	9	
		L			<u> </u>	Ign in	H	토	
		8				Black/blue	14	S I	
		Sen		<u>_</u>	<b>.</b>	Pullup			
		Ë		ည်		Black/Blue	15		
		iŧio	<u> </u>	Ser		Pullup	$\vdash$		
		80	g.	ŧ.		Green	191		
	ਚ	9	<u>0</u>	j.		Injector and			
ē	Š	₹	<u> </u>	혿		Black/Brown	22		
Power	Ground	Throttle position sensor	Airflow signal	Crankshaft sensor		Lambdain			
щ		-	4				- 1		

**ENGINE** 

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Date: 24 Mar 2004 Page: 102

Ref: BMW143.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make:

Model: 316 M43 Timing chain

Year:

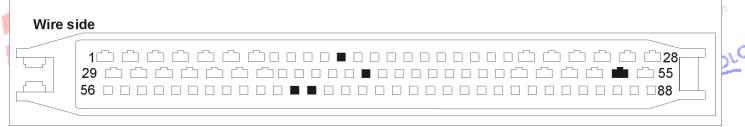
Comments:

ECU Location: Engine bay left in wiper box

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



			EC	CU					
54	68	12	41	67			Pin n		
						Red	13		
						Power	┨. │		
	١,					Black	1		
						Ground	┨ _ │		
						Brown	7		ľ
						Analog defl	_		
						Violet	18	m	
						Analog out		00	
						Blue	6	Ш	
						Analog in		몽	
						White/Blue	17	눈	
						Digital out		Ť	
						White/Red	5	(0)	
						Digital in		$ \succ $	
						Pink	19		
						Bipliri gnout		SMT6 WIRING HARNESS	
						White	20		
						Uniplrign out		io.	
						Yellow	8	Ĕ	
		5				Ign in		Σ	
		80				Black/blue	14	တ	
		8		5		Pullup			
		6		SUS		Black/Blue	15		ŀ
		siti	ö	8		Pullup			
		ő	sensor	aft		Green	9		
_	g	<u>e</u>		l &		Injector and			
We.	puno	rottle position sensor	д. Н.	ankshaft sensor		Black/Brown	22		
			I	- 94	1				4

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Date: 24 Mar 2004 Page: 103

Ref: BMW 159.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Lambdain



ECU make: Siemens MS 41

Model: 520i 24V Vanos (E39)

1996-99 Year:

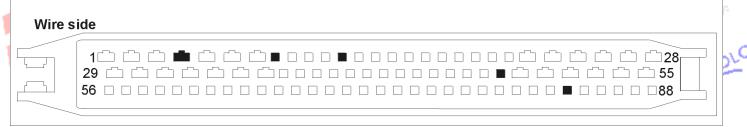
May not be able to do ignition modifications on this car Comments:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

#### **ECU Pin Out**



### Wiring Diagram

# **Global Settings**

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no 49 4 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Green Injector and Ground Ø 22 Black/Brown ۹

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Date: 24 Mar 2004 Page: 111

Ref: BMW29.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Lambdain



ECU make: Siemens MS 41

Model: 523i (E39)

Year: 1996-99

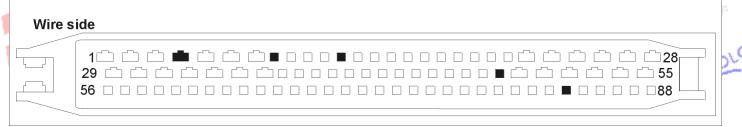
Comm<mark>en</mark>ts: May not be able to do ignition modifications on this car

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

## **ECU Pin Out**



### Wiring Diagram

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no 49 4 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Green Injector and Ground Ø 22 Black/Brown ۹ Lambdain

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Date: 24 Mar 2004 Page: 112

Ref: BMW30.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Siemens MS 41

Model: 528i (E39) Year: 1996-99

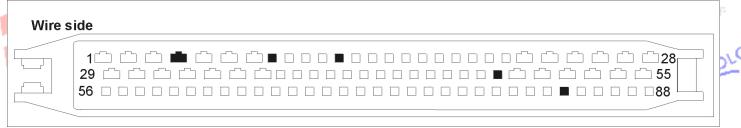
Comments:

**ECU Location:** 

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

			P		ing Biagram	1	_	
			E(	CU				
49	4	12	8	83		Red	Pin n ]13	<u>.                                    </u>
						Power Black	1	
	'					Ground		
		٠ ا				Brown Analog defl	-	
						Violet Analog out	18	92
						Blue	6	
						Analog in	17	물
						White/Blue Digital out		뙨
						White/Red  Digital in	5	9
						Pink	19	
						Biplrign out	-	MIR.
						White Uniphrignout	20	SMT6 WIRING HARNESS
						Yellow	8	Ě
		180				Ign in Black/blue	14	5
		Sel		sor		Pullup		
		itior	, j	sen		Black/Blue Pullup	15	
		poé	sens	haft		Green	밀	
Power	Ground	Throttle position sensor	M.A.S sensor	Crankshaft sensor		Injector gnd Black/Brown	22	
ę.	5	Ē	∑. 2.	ည်		Lambdain		
	I	I	I	l	I			

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 113

Ref: BMW31.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Siemens MS 41

Model: 728i

Year: 1998

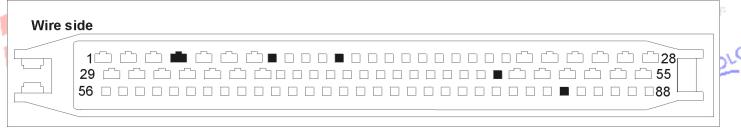
May not be able to do ignition modifications on this car Comments:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

## **ECU Pin Out**



### Wiring Diagram

#### **ECU** Pin no 49 4 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Green Injector and Ground Ø 22 Black/Brown ۹

### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 114

Ref: BMW32.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Lambdain



ECU make: Bosch Motronic M1.1/1.3

Model: 325i/325e (E30)

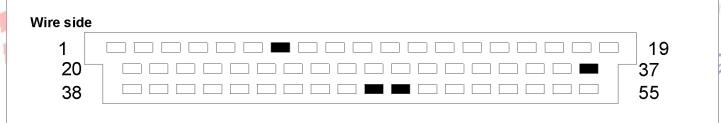
1985-93 Year:

Comments:

**ECU Location:** Below steering wheel Vehicle make:

Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

## **Global Settings**

Cylinders					
Teeth per turn(incl miss)	60				
Teeth per firing	30				
Modes	1				
System Config					
Positive input pol	ON				
Positive output pol	ON				
Low level input	ON				
High frequency	OFF				
Interlaced	OFF				
One missing tooth	OFF				
Lambda Input	OFF				

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 37 48 7 47 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplini gnout White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Pullup GreytYéllow Green Ě Injector and 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 115

Ref: BMW21.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Bosch Motronic M1.1/1.3

Model: 318i(E36)/518i/520i (E34)

Year: 1991-93

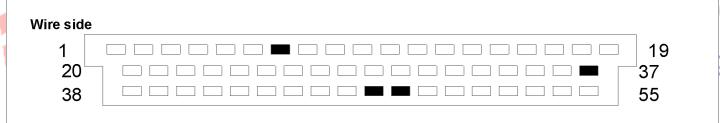
Comments:

ECU Location: Below steering wheel

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

# agram Global Set<mark>ti</mark>ngs

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 37 48 7 47 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Pullup GreytYéllow Green Ě Injector and 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 116

Ref: BMW22.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Bosch Motronic M1.1/1.3

Model: 525i/530i/535i (E34)

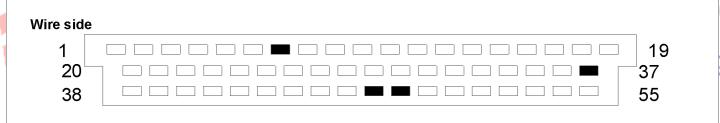
1988-93 Year:

Comments:

**ECU Location:** Below steering wheel Vehicle make:

Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

#### **Global Settings** Culindore

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 37 48 7 47 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Pullup GreytYéllow Green Ě Injector and 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 117

Ref: BMW23.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Bosch Motronic M1.1/1.3

Model: 730i/735i (E32)

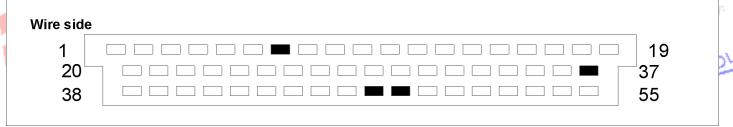
1986-92 Year:

Comments:

**ECU Location:** Below steering wheel Vehicle make:

Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

**Global Settings** 

Click here for an explanation on how to use the global

settings.

#### **ECU** Pin no. 37 48 7 47 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Black/Blue 15 Pullup GreytYéllow Green Ě Injector and 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 118

Ref: BMW24.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make:

Model: 3L M3 Vanos

Year:

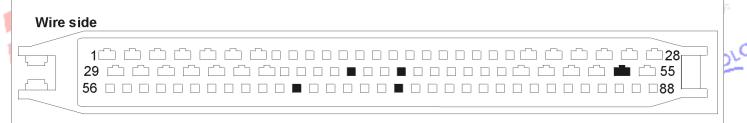
Comments:

ECU Location: Engine bay left near wiper box

Click here to return to BMW Menu.

Vehicle make: BMW

### **ECU Pin Out**



Wiring Diagram

### Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

**ECU** Pin no. 54 43 73 41 67 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Brown\Black GreytYellow RedWyhite Green Injector and Black 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 119

Ref: BMW25.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Siemens MS 41

Model: 320i Vanos (E36)

1994-98 Year:

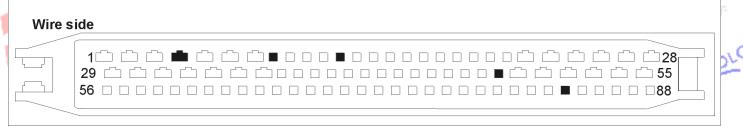
May not be able to do ignition modifications on this car Comments:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

## **ECU Pin Out**



### Wiring Diagram

## Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no 49 4 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Green Injector and Ground Ø

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**ENGINE** 

Date: 24 Mar 2004 Page: 120

Ref: BMW26.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Black/Brown

Lambdain

22



ECU make: Siemens MS 41

Model: 323i/Compact (E36)

1995-98 Year:

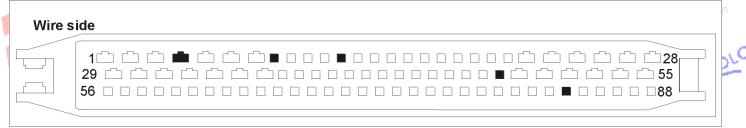
May not be able to do ignition modifications on this car Comments:

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

#### **ECU Pin Out**



### Wiring Diagram

#### **ECU** Pin no 49 4 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Green Injector and Ground Ø

## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF
-	

Click here for an explanation on how to use the global settings.

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**ENGINE** 

Date: 24 Mar 2004 Page: 121

Ref: BMW27.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Black/Brown

Lambdain

22



ECU make: Siemens MS 41

Model: 328i (E36)

Year: 1995-98

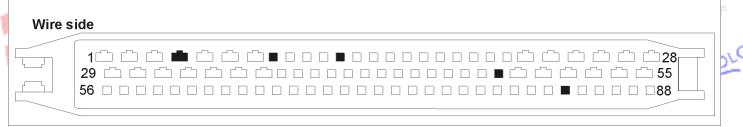
Comm<mark>en</mark>ts: May not be able to do ignition modifications on this car

**ECU Location:** 

Click here to return to BMW Menu.

Vehicle make:

## **ECU Pin Out**



### Wiring Diagram

# Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no 49 4 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Green Injector and Ground Ø 22 Black/Brown ۹ Lambdain

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Date: 24 Mar 2004 Page: 126

Ref: BMW28.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

54

43

73

# Perfect Power Wiring Diagram



ECU make: Bosch Motronic M3.1

Model: 320i 24V (E36)

Year: 1991-92

Comments:

ECU Location: Engine bay left

Vehicle make: BMW

Click here to return to BMW Menu.

**ECU Pin Out** 



### Wiring Diagram

**ECU** 

41

#### Pin no. 67 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out

Yellow Ignin

Pullup

Green

Black/blue Pullup

Black/Blue

Injector and

Black/Brown Lambdain 8

14

15

22

## Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

Copyright Digital Technology

Black

RedWVhite

Brown\Black

GreytYellow

**ENGINE** 

Date: 24 Mar 2004 Page: 104

Ref: BMW13.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

Crankshaft sensor



ECU make: Bosch Motoronic M3.1

Model: 320i 24V Vanos (E36)

Year: 1992-97

Comments:

ECU Location: Engine bay left

Vehicle make: BMW

Click here to return to BMW Menu.

**ECU Pin Out** 



## Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

Wiring Diagram **ECU** Pin no. 54 43 73 41 67 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Brown\Black GreytYellow RedWVhite Green Injector and Black 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 105

Ref: BMW14.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: **Bosch Motronic M3.1** 

Model: 325i 24V (e36)

1991-92 Year:

Comments:

**ECU Location:** Engine bay left Vehicle make:

Click here to return to BMW Menu.

**ECU Pin Out** 



# Wiring Diagram

# **Global Settings**

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

Sedward   13				5	<u>Wi</u>	ring Diagram				
Red   13   Power   Black   1   Ground   Brown   7   Analog defl   Violet   18   Analog out   Blue   6   Analog in   White/Blue   17   Digital out   White/Red   Digital in   Pink   19   Bipliri gn out   White   White   17   White   19   White   19   White   19   White   10   W				E(	CU					
Power Black Ground Brown 7 Analog defl Violet 18 Analog out Blue 6 Analog in White/Blue Digital out White/Red Digital in Pink Biplri on out White Uniplr ign out White Yellow 19 Black/blue Pullup Black/blue Pullup Black/Blue 15 Pullup Green Joseph	54	43	73	41	67				<u>o.</u>	
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Ground Brown Analog defl Violet Blue Analog out Blue Analog in White/Blue Digital out White/Red Digital in Pink BipIrign out White UnipIrign out Yellow Ign in Black/blue Pullup								١. ١		4
Brown Analog defl Violet Blue Analog out Blue Analog in White/Blue Digital out White/Red Digital in Pink Biplrign out White Uniplrign out Yellow Ign in Black/blue Pullup							-	1		
Analog defl Violet 18 Analog out Blue 6 Analog in White/Blue 17 Digital out White/Red 5 Digital in Pink 19 Biplri gn out White Uniplri gn out Yellow Yellow 19 Black/blue 14 Pullup Black/Blue 15 Pullup Green 9 Injector and								ا ہ ا		l)
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**ENGINE** 

Date: 24 Mar 2004 Page: 106

Ref: BMW15.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Bosch Motronic M3.1

Model: 325i 24V Vanos (E36)

Year: 1992-97

Comments:

ECU Location: Engine bay left

Vehicle make: BMW

Click here to return to BMW Menu.

**ECU Pin Out** 



# Wiring Diagram

#### **ECU** Pin no. 54 43 73 41 67 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup Brown\Black GreytYellow RedWVhite Green Injector and Black 22 Black/Brown Lambdain

## Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Date: 24 Mar 2004 Page: 122

Ref: BMW16.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Bosch Motoronic M3.1

Model: 520i/525i 24V (e36)

Year: 1989-92

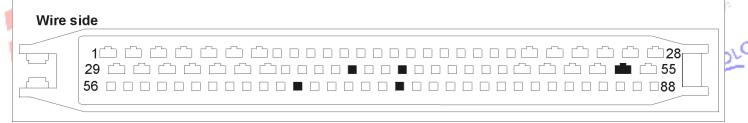
Comments:

ECU Location: Plastic box right side of engine bay

Click here to return to BMW Menu.

Vehicle make:

### **ECU Pin Out**



### Wiring Diagram

# Global Settings

Cylinders	О
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

#### **ECU** Pin no. 54 43 73 41 67 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yellow Ign in 14 Black/blue Pullup Crankshaft sensor 15 Black/Blue Pullup Brown\Black GreytYellow RedWVhite Green Injector and Black 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 107

Ref: BMW17.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Bosch Motronic M3.1

Model: 520i/525i 24V Vanos (e34)

Year: 1992-96

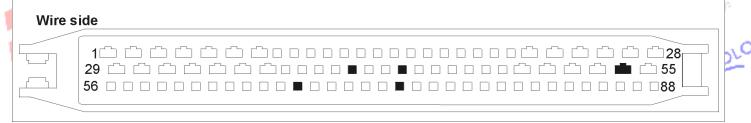
Comments:

ECU Location: Plastic box right hand side of engine bay.

Click here to return to BMW Menu.

Vehicle make:

### **ECU Pin Out**



Wiring Diagram

### Global Settings

Cylinders	6
Teeth per turn(incl miss)	60
Teeth per firing	20
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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						White	20	N]	
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Date: 24 Mar 2004 Page: 108

Ref: BMW18.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



37

48

ECU make: Bosch Motronic M1.1/1.3

Model: 316i/318i (E30)

Year: 1988-93

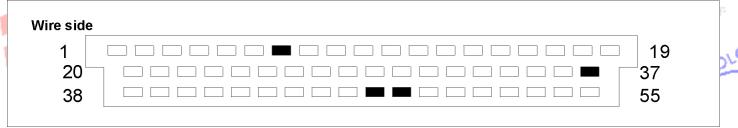
Comments:

ECU Location: Under steering wheel

Vehicle make: BMW

Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

**ECU** 

GreytYéllow

**ENGINE** 

7

#### Pin no. 47 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in White/Blue 17 Digital out 5 White/Red Digital in Pink 19

Biplrign out

Uniplrign out

Black/blue Pullup Black/Blue

Injector and

Black/Brown Lambdain 8

14

15

22

White

Yellow Ignin

Pullup

Green

# Global Settings

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Ref: BMW19.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Bosch Motronic M1.1/1.3

Model: 320i (E30)

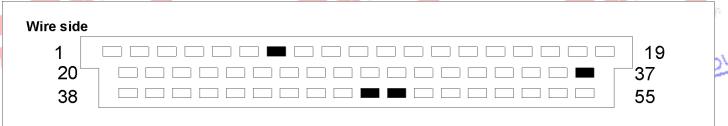
1986-93 Year:

Comments:

**ECU Location:** Below steering wheel Vehicle make:

Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

**ECU** 

GreytYéllow

**ENGINE** 

46			Red	13	
			Power		
			Black	1	
			Ground		7
			Brown	7	
			Analog	defl 💮	7
			Violet	18	
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			White/R	ed 5	
			Digital i	· _	1 🗕 📗
			Pink	19	RING HARNESS
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## **Global Settings**

Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	
Positive input pol	ON
Positive output pol	ON
Low level input	ON
High frequency	OFF
Interlaced	OFF
One missing tooth	OFF
Lambda Input	OFF

Click here for an explanation on how to use the global settings.

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Ref: BMW20.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.

White

Yellow Ign in Black/blue Pullup

Green

Uniplrign out

Black/Blue Pullup

Injector and

Black/Brown Lambdain

15

22



ECU make: Bosch Motronic M1.7.3

Model: 316i (E36)

1995-00 Year:

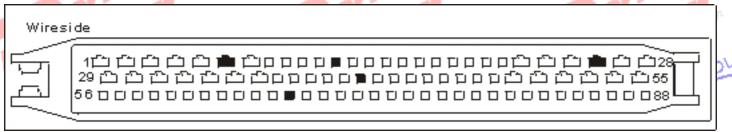
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

# **Global Settings**

Cylinders Teeth per turn(incl miss) 60 Teeth per firing 30 Modes System Config Positive input pol Positive output pol Low level input

Click here for an explanation on how to use the global settings.

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	-					Black	1		
						Ground	1 7		
						Brown	$\vdash$		-
						Analog defl	اميا		
						Violet	18	(2)	
						Analog out	ا ہا	8	
						Blue	6	ᄬ	
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						White/Blue	17	Ø	
						Digital out White/Red	5	工	
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**ENGINE** 

Ref: BMW571.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make:

Bosch motronic M1.7.3

Model:

318i (E36) 1995-99

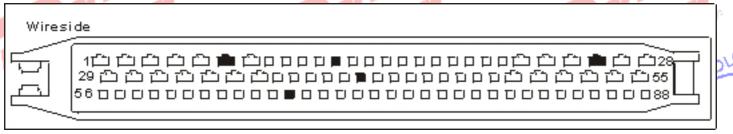
Comments:

**ECU Location:** 



Click here to return to BMW Menu.

## **ECU Pin Out**



### Wiring Diagram

## **Global Settings**

and the second s	
Cylinders	4
Teeth per turn(incl miss)	60
Teeth per firing	30
Modes	1
System Config	l
Positive input pol	ON
Positive output pol	ON
Low level input	ON
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Click here for an explanation on how to use the global settings.

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						Analog out	ا ہ ا	(S)		
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Ref: BMW572.pdf

The above Global Settings are additions to the Default SMT6 Map. Disclaimer: Please note that as a result of the ECU pin out variations for this vehicle worldwide, this Wiring Diagram is to be used as a guideline only. Digital Technology will not be held responsible in any way for incorrect wiring information contained hereon.



ECU make: Motronic

Model: 745i

Year:

Comments

**ECU Location:** 



Click here to return to BMW Menu.

**Global Settings** 

Teeth per turn(incl miss)

Positive input pol

Low level input

Click here for an

use the global

settings.

explanation on how to

Positive output pol

Cylinders

Modes

1

7

18

6

17

5

19

8

14

15

HARN

Teeth per firing

System Config

NOG

10

## **ECU Pin Out**

Wireside

18

19

35年中華中央中央中央中央中央中央中央中央中央中央中国

### Wiring Diagram

**ECU** 

7

### Pin no. 1 Red 13

Black Ground Brown

Analog defl Violet Analog out

Power

Blue Analog in White/Blue

Digital out White/Red Digital in

Pink

Biplrign out White

Uniplrign out Yellow Ign in

Black/blue Pullup Black/Blue

Pullup

Lambdain

Green Injector and 22 Black/Brown

**ENGINE** 

Airflowsensor

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Sound

Ower

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amplifier

Ref: BMW640.pdf

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external ignition