

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	(bis),
M3 3.2 double vanos (E36) (S50 B32) - Bosch Motronic 3.1 - 1997	\
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	/
325e - Motronic - 1982-88	/
528e - Motronic - 1982-88	✓
533i - Motronic - 1982-88	
535i - Motronic - 1982-88	
535iS - Motronic - 1982-88	_/
635Si - Motronic - 1982-88	/
635CSi - Motronic - 1982-88	/
733i - Motronic - 1982-88	/
735i - Motronic - Motronic	1 Wy Ita
Z3 2.0 (20 6S 4) - Siemens MS 42 - 1999-02	2 `
Z3 2.8 (28 6S 2) - Siemens MS 42 - 1999-02	/
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>	/
<u>540 1997</u>	/
318iS/Coupe (E36) - Bosch Motronic 5.2 - 1996-99	/
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 -	/
325i 24V Vanos (E36) - Bosch Motronic M3.3.1 - 1992-97	/
525i 24V Vanos (E34) - Bosch Motronic M3.3.1 - 1992-96	/
2.0 & 2.5 24V no Vanos	/
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	/
2L & 2.5L 24V with Vanos	/
3.0L M3 with Vanos	/
530i (E34) - Bosch Motronic M3.3 - 1992-96	
540i (E34) - Bosch Motronic M3.3 - 1992-96	1
316 M40	1
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)	✓
318iS with viscous fan	
2.8L 24V	<
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	<
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	✓
318i(E36)/518i/520i (E34) - Bosch Motronic M1.1/1.3 - 1991-93	/
525i/530i/535i (E34) - Bosch Motronic M1.1/1.3 - 1988-93	/
730i/735i (E32) - Bosch Motronic M1.1/1.3 - 1986-92	
3L M3 Vanos	1
200' M (F2C) G' MG 41 1004 00	
320i Vanos (E36) - Siemens MS 41 - 1994-98	
3201 Vanos (E36) - Siemens MS 41 - 1994-98 323i/Compact (E36) - Siemens MS 41 - 1995-98	
323i/Compact (E36) - Siemens MS 41 - 1995-98	✓
323i/Compact (E36) - Siemens MS 41 - 1995-98 328i (E36) - Siemens MS 41 - 1995-98	1
323i/Compact (E36) - Siemens MS 41 - 1995-98 328i (E36) - Siemens MS 41 - 1995-98 320i 24V (E36) - Bosch Motronic M3.1 - 1991-92	✓ ✓ ✓
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	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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 325i 24V (e36) - Bosch Motronic M3.1 - 1991-92	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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 Motronic M3.1 - 1992-97 325i 24V (e36) - Bosch Motronic M3.1 - 1991-92 325i 24V Vanos (E36) - Bosch Motronic M3.1 - 1992-97	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

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	1 1/10
316i/318i (E30) - Bosch Motronic M1.1/1.3 - 1988-93	
320i (E30) - Bosch Motronic M1.1/1.3 - 1986-93	\
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)

Year:

Comments:

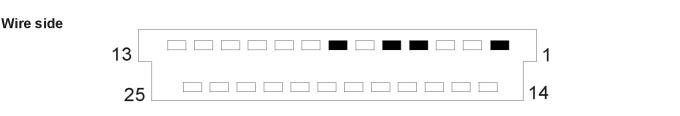
ECU Location:

Vehicle make:

1987-89

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

Global Settings Culindore

Cylinders	4
Teeth per turn(incl miss)	2
Teeth per firing	b% 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.

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

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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

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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

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

<u>Pullup</u> Græn 15

22



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

Model: e520i

Year: 1992-96

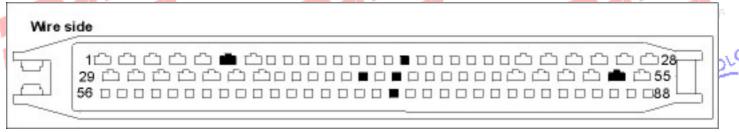
Not sure of crank pickup feedback appreciated Comments:

ECU Location:

Click here to return to BMW Menu.

Vehicle make:

ECU Pin Out



Wiring Diagram

			- 2
ıc I	42		Pin
16	43	I 5 I	$\neg \neg$

Blue

Analog in

				Power .		
Ι.				Black	1	
1	S 8		× ×	Ground	=	
				Brown	7	
			(C)	Analog defl	-	
				Violet	18	
				Analog out		

ECU.

41

73

6

54

explanation on how to use the global settings.

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 Low level input Click here for an

HARN 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 15 Black/Blue Sensor (43) position Pullup Sensor Green

Crark

Injector and 22 Black/Brown

Lambdain

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hrottle

ENGINE

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Ref: BMW767.pdf

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Perfect Power Wiring Diagram



73

41

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

Model: 525i

Year: 1992-96

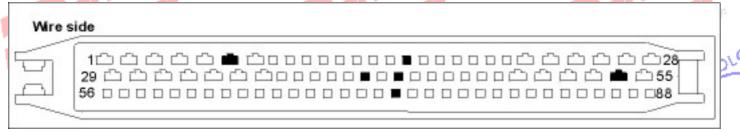
Not sure of crank pickup feedback appreciated Comments:

ECU Location:

Click here to return to BMW Menu.

Vehicle make:

ECU Pin Out



Wiring Diagram

ECU Pin no. 43 16 Red 13 Power Black 1 Ground 7 Brown Analog defl 18 Violet Analog out 6

Blue

Pink

White

Yellow Ign in Black/blue

Pullup

Pullup

Green

Black/Blue

Injector and

Black/Brown

Lambdain

Analog in White/Blue

Digital out

White/Red Digital in

Biplrign out

Uniplrign out

Global Settings

ylinders	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.

HARN

17

5

19

8

14

15

22

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position

hrottle

Date: 24 Mar 2004 Page: 35

Sensor (43)

Crark

Sensor

ENGINE

Ref: BMW768.pdf



54

14

73

ECU make: **Bosch Motronic 3.1**

M3 3.2 double vanos (E36) (S50 B32)

Year:

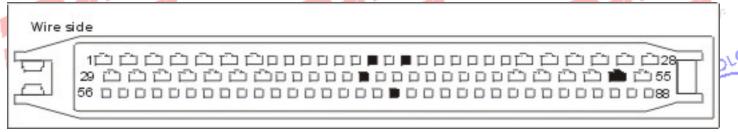
Fuel only, see other diagram for ignition mod's Comments:

ECU Location: Engine bay behind fuse box

Click here to return to BMW Menu.

Vehicle make:

ECU Pin Out



Red

Power Black Ground

Wiring Diagram

ECU

16

41

Global Settings Culindore

Pin no.

13

15

22

Cylinders	U
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.

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 Black/blue 14

Pullup Black/Blue

Pullup Green

Injector and Black/Brown Lambdain

ENGINE

shaft

rank

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Ground

Power

Throttle position sensor

sensor

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Ref: BMW891.pdf



ECU make: Bosch BMS 46

Model: 316i (e46) (194E1)

1999-02 Year:

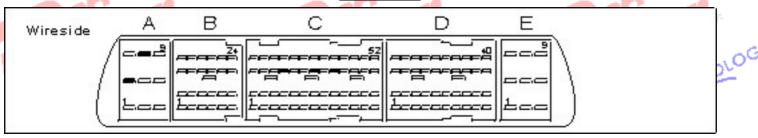
Comments:

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	
Positive input pol	ON
Positive output pol	ON
Low level input	OFF

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 G 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 Injector and Airflow Ground Power

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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

22

ENGINE



ECU make: Bosch BMS 46

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

1998-02 Year:

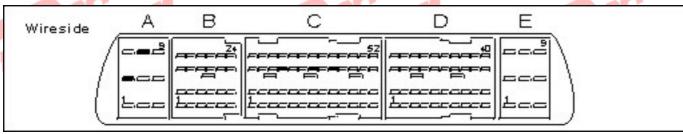
Comments:

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
(O) LIE TEU	

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

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Power

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ENGINE

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.

Black/Brown Lambdain

22



ECU make: Bosch BMS 46

Model: 318i (E46) (194E1)

Year: 1998-02

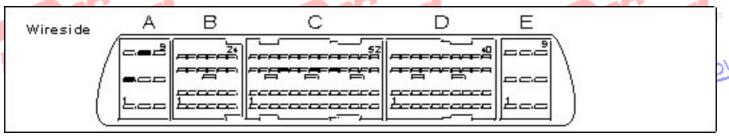
Comments:

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	- 5 ½
White/Red Digital in	H일
Pink Biplrign out	MIRING HARNESS
White Uniplrign ou	_
Yellow	

grition signal sensor

Airflow sensor

ENGINE

Copyright Digital Technology

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

22



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

Model: 320i

Year: 1992-1997

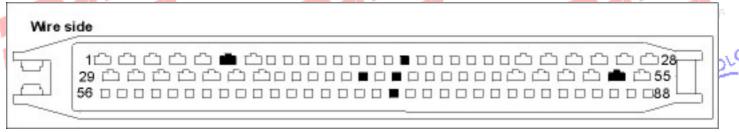
Not sure of crank pickup feedback appreciated Comments:

ECU Location:

Click here to return to BMW Menu.

Vehicle make:

ECU Pin Out



Wiring Diagram

<u> </u>	ing Diagre		<u> </u>
16	43		Pin n <u>o.</u>
10 1	40	1- 1	140

Red

6			Power	
			Black	1
1	8	× ×	Ground	
			Brown	7
	P 1	(C)	Analog defl	
			Wie let	112

ECU

41

73

position

hrottle

Copyright Digital Technology

6

54

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.

Low level input

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

13

14

15

Ign in Black/blue

Pullup Black/Blue Pullup

Green Injector and 22

Black/Brown Lambdain

Crark **ENGINE**

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Sensor (43)

Sensor

Ref: BMW765.pdf

54

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Perfect Power Wiring Diagram

erfect ovver www.perfectpower.com

ECU make: Bosch Motronic M3.1

Model: 325i

Year: 1992-96

Comments: Not sure of crank pickup feedback appreciated

ECU Location:

Click here to return to BMW Menu.

Global Settings

Teeth per turn(incl miss)

6

60

20

ON

Cylinders

Modes
System Config
Positive input pol
Positive output pol

Teeth per firing

Low level input

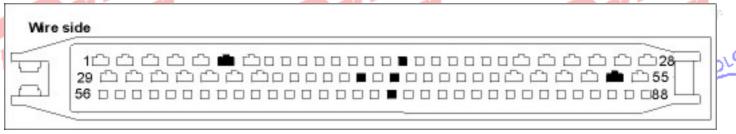
Click here for an

explanation on how to

use the global settings.

Vehicle make:

ECU Pin Out



Wiring Diagram

ECU.

41

73

					ŀ	
16	43	ı		P	l in n	ο.
10	43		Red		13	
			Power			
			Black Ground		1	
	8		Ground			

Brown

Analog defl
Violet
Analog out

Blue Analog in White/Blue Digital out 18

6

17

5

19

8

14

15

22

HARN

White/Red Digital in Pink

Biplrign out White

White Uniplrign out Yellow Ign in

Black/blue Pullup Black/Blue

Pullup Green Injector and

Black/Brown E E Lambdain

Sensor (43)

Sensor

ENGINE

Copyright Digital Technology

position

hrottle

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Ref: BMW766.pdf



ECU make: Bosch motronic 3.1

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

Year: 1997

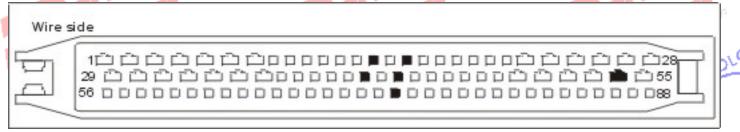
Comments:

ECU Location: Engine bay behind fuse box

Click here to return to BMW Menu.

Vehicle make:

ECU Pin Out



Wiring Diagram

ECU

Pin no. 54 14 73 41 43 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

rank shaft sensor (43)

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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Ground

Power

Throttle position sensor

sensor

Crank shaft

ENGINE

Date: 24 Mar 2004 Page: 125

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.

Yellow Ignin

<u>Pullup</u> Black/Blue

Pullup

Green

Black/blue

Injector and

Black/Brown

Lambdain

8

14

15

22

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Perfect Power Wiring Diagram

erfect Ver

ECU make: Motronic

Model: 325

Year: 1982-88

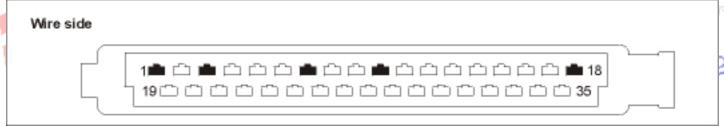
Comments:

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

K.

ECU make: Motronic

Model: 325e

Year: 1982-88

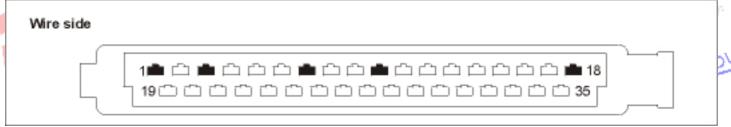
Comments:

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
Interlaced OFF

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

Copyright Digital Technology

Date: 24 Mar 2004 Page: 42

ENGINE

Ref: BMW456.pdf



ECU make: Motronic

Model: 528e G

Year: 1982-88

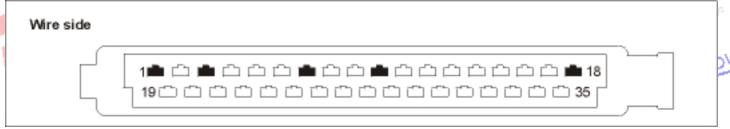
Comments

ECU Location: Glove box

Vehicle make: BMW

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

ECU

		L?	<u> </u>						
18	10	7	l 1				jin n	<u>o.</u>	-
						Red	13		
						Power			
						Black	1		
]					Ground	厂		
						Brown	_ 7		١
						Analog defl	\Box		
						Violet	18	0	
						Analog out	\Box	တျ	
						Blue	6	Ш	
			Ī			Analog in	\Box	몽	
						White/Blue	17	뚥	
						Digital out	\Box	宁日	
						White/Red	5	70	
						Digital in	\Box	\preceq	
						Pink	19		
						Bipling out	\Box	H	١
					-	White	20	SMT6 WIRING HARNESS	
						Uniplrign out	\Box	SO.	
			l .			Yellow	╚┸	Εl	
						Ign in	\Box	Σ	
						Black/blue	14	O	
						Pullup			d
		_				Black/Blue	15		
		w sensor		<u>.</u>		Pullup			ĺ
		je l		ut to coil		Green	9		
<u></u>	밀	8		ŧ		Injector and	\Box		
40				_			1 1		

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 Date: 24 Mar 2004 Page: 43

Ref: BMW457.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

erfect oww.perfectpower.com

ECU make: Motronic

Model: 533i

Year: 1982-88

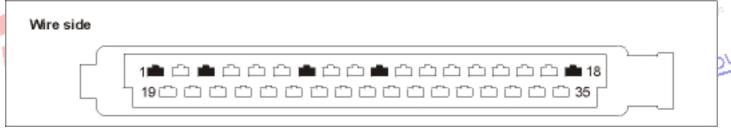
Comments

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 14 Black/blue Pullup Black/Blue 15 Airflow sensor Pullup Output to coil Green Injector and Ground 22 Black/Brown Lambdain

ENGINE

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

Date: 24 Mar 2004 Page: 44

Ref: BMW458.pdf

ect (

ECU make: Motronic

Model: 535i

Year: 1982-88

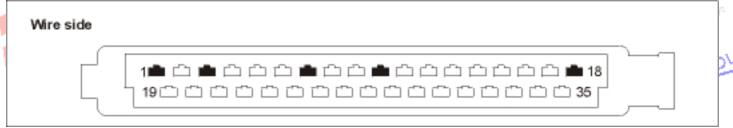
Comments

ECU Location: Glove box

Vehicle make: BMW

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

		-				and the same	-	
			EQ	<u>CU</u>				
18	10		7	1) Jac	<u>-</u>
	-					Red Power	13	
						Black	1	
	•					Ground	┝╧	
						Brown	7	
		8				Analog defl	۲	
						Violet	18	
			'			Analog out		잃
						Blue	6	ш
						Analog in		ΞI
						White/Blue	17	쮰
						Digital out		우
						White/Red	5	SMT6 WIRING HARNESS
						Digital in		
						Pink	19	
						Bipling out	\Box	ΙΉ
						 White	20	3
						Uniplrign out		9
					ļ	Yellow	8	
						Ign in	١	송
						Black/blue	14	0/
						Pullup	15	
			5		=	Black/Blue	13	
			ē		00	Pullup	۱ ٍ ا	
	_		e e		2	Green	9	
ē	=		8		ğ	<u>Injector gnd</u> Black/Brown	22	
Power	Ground		Airflow sensor		Output to coil	Lamb da in		
Δ.	ျ		∢		0	Carrio da Fri	1	

ENGINE

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

Date: 24 Mar 2004 Page: 45

Ref: BMW459.pdf

ECU

ECU make: Motronic

535iS Model:

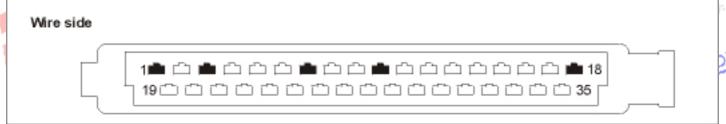
1982-88 Year:

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. 1 Teeth per firing Red 13 Modes System Config Power Positive input pol Black 1 Positive output pol Ground Interlaced 7

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

Global Settings

10

ON

18 10 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 **ENGINE**

Copyright Digital Technology

Date: 24 Mar 2004 Page: 46

Ref: BMW460.pdf

ECU make: Motronic

Model: 635Si

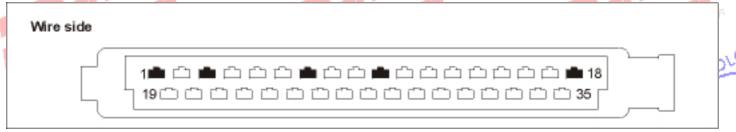
1982-88 Year:

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

Global Settings

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

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

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Date: 24 Mar 2004 Page: 47

ENGINE

Ref: BMW461.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: Motronic

Model: 635CSi

Year: 1982-88

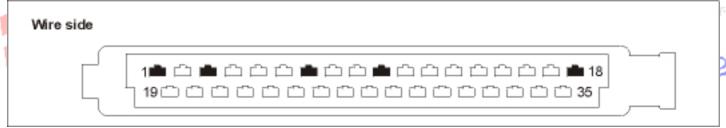
Comments:

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

ENGINE

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

Date: 24 Mar 2004 Page: 48

Ref: BMW462.pdf

erfect over

ECU make: Motronic

Model: 733i

Year: 1982-88

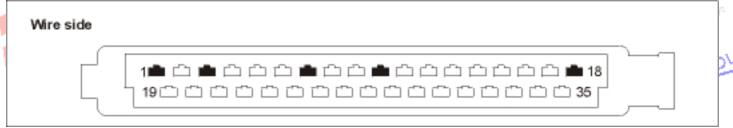
Comments:

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
Interlaced OFF

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

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ENGINE

Date: 24 Mar 2004 Page: 49

Ref: BMW463.pdf

18

10

Perfect Power Wiring Diagram



ECU make: Motronic

Model: 735i

Year: Motronic

Comments:

ECU Location: Glove box

Vehicle make: BMW

Click here to return to BMW Menu.

Global Settings

10

ON

Teeth per turn(incl miss)

Positive input pol

Click here for an

use the global

settings.

explanation on how to

Positive output pol

Cylinders

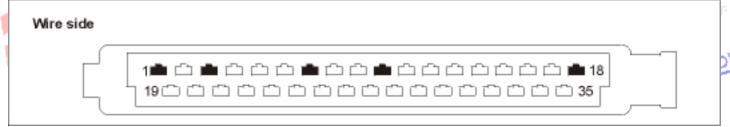
Modes

Teeth per firing

System Config

Interlaced

ECU Pin Out



Wiring Diagram

ECU

7

1 Red 13 Power

Ground Brown Analog defl Violet

Black

1

7

18

6

17

5

19

8

14

15

22

HARN

Analog out
Blue
Analog in
White/Blue

Digital out White/Red Digital in

Pink Biplrignout

Ign in

White Uniplrignout Yellow

Black/blue Pullup Black/Blue

Pullup Green Injector and

Black/Brown Lambdain

ENGINE

Airflow sensor

Copyright Digital Technology

Ground

Date: 24 Mar 2004 Page: 50

Output to coil

Ref: BMW464.pdf



ECU make: Siemens MS 42

Model: Z3 2.0 (20 6S 4)

Year: 1999-02

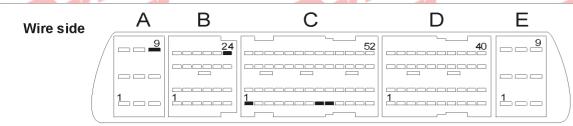
Comments:

ECU Location:

Click <u>here</u> 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

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

				VV	ring Diagram	100			
			E	CU					
A9	B24	C9	C1	C8		Red) 13	o. 	
,						Power Black	1		
	Į į	•				Ground Brown Analog defl	7		١
						Violet Analog out Blue	18 6	ESS	
						Analog in White/Blue Digital out White/Red Digital in Pink Biplrign out White Uniplrign out	17 5 19	SMT6 WIRING HARNESS	
Power	Ground	Throttle position sensor	Airflow signal	Crankshaft sensor		Yellow Ign in Black/blue Pullup Black/Blue Pullup Green Injector and Lambdain	14 15 9	SMT6	

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Date: 24 Mar 2004 Page: 54

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.

ENGINE



ECU make: Siemens MS 42

Model: Z3 2.8 (28 6S 2)

Year: 1999-02

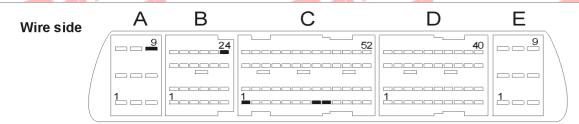
Comments:

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

Copyright Digital Technology

Ground

Throttle position sensor

Date: 24 Mar 2004 Page: 55

Ref: BMW152.pdf



Siemens MS 42 ECU make:

520i (E39) (25 6S 4)

1998-02 Year:

Comments

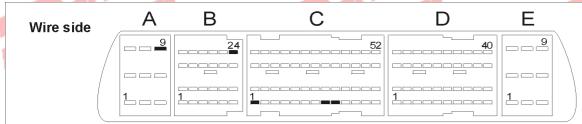
Model:

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	_	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			
_		' '	_~_		I		- 1		į.

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Date: 24 Mar 2004 Page: 56

ENGINE

Ref: BMW147.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.



Siemens MS 42 ECU make:

523i (E39) (20 6S 4)

1998-02 Year:

Comments

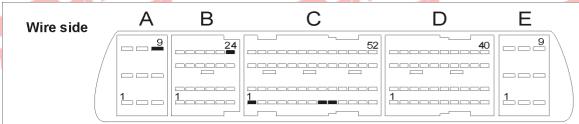
Model:

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**

Copyright Digital Technology

Ground

Throttle position senso

Airflow signal

Date: 24 Mar 2004 Page: 57

Ref: BMW148.pdf



ECU make: Siemens MS 42

528i (E39) (28 6S 2)

Year: 1998-02

Comments

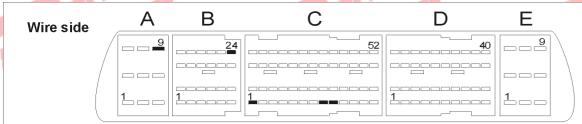
Model:

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

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	ارما	
					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	
		Ä			Ign in		ו≥ו	
)S(Black/blue	14	ဟ	
		se		b	Pullup			
		6		SUS	Black/Blue	15		
		sitis	اهر	Se	Pullup			
		Throttle position sensor	Airflow signal	Crankshaft sensor	Green	9		
<u></u>	밀	#e	}	୍ର	Injector and			
Power	Ground	rot	è	aut	Black/Brown	22		
8	ပ်	두	Αir	ပ်	Lambdain			

ENGINE

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Date: 24 Mar 2004 Page: 58

Ref: BMW149.pdf



ECU make: Siemens MS 42

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

Year: 1998-02

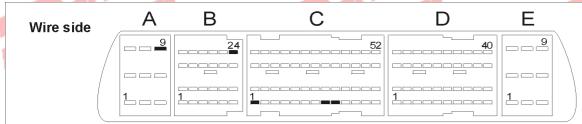
Comments:

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.

			_		The second secon			
			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	⊣ 5	工	-
					Digital in	_ <u>~</u>	9	
					Pink	⊣ 19	z	
					Biplrign out	1	Z	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	ട്ട	ŧ	8	볼	<u>Injector gnd</u> Black/Brown	— ₂₂		1
Power	Ground	Throttle position sensor	Airflow signal	Crankshaft sensor	Lambdain	<u> </u>		
ш.			=1					

ENGINE

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Date: 24 Mar 2004 Page: 59

Ref: BMW 150.pdf



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

Model: 740i (E38)

1994-96 Year:

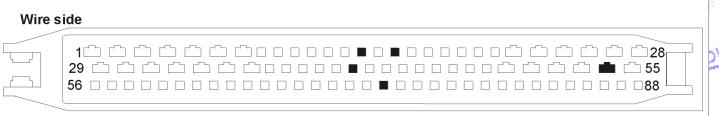
Comments:

ECU Location:



Click here to return to BMW Menu.

ECU Pin Out



Wirir

. .	alai	al 1 1 a . M
ng Diagram		<u>Global Settings</u>
	3	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.

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 17 White/Blue Digital out 5 White/Red Digital in 19 Pink Biplrign out White Uniplrign out 8 Yello w Ign in Throttle position sensor Black/blue 14 Pullup Crankshaft sensor 15 Black/Blue Pullup Green Injector and Ground Ø Power 22 Black/Brown ۹ Lambdain

ENGINE

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Date: 24 Mar 2004 Page: 60

Ref: BMW118.pdf

ECU make:

Model: M5 24V

Year:

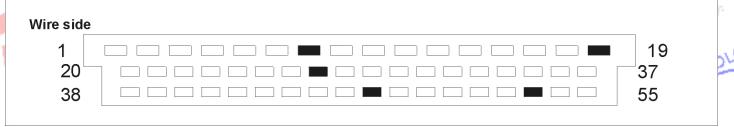
Comments:

ECU Location: Plastic box right side of engine bay

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

Vehicle make: BMW

ECU Pin Out



Wiring Diagram

Global Settings

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•	1	N
•	,	IV

4
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30
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FF

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	
					Analog defl		
					Violet	18	اما
		20			Analog out		ကြ
					Blue	6	Ш
					Analog in		몽
					White/Blue	17	뚥
					Digital out		产
					White/Red	5	70
					Digital in		
					Pink	19	
					Bipling out		IF
					White	20	SMT6 WIRING HARNESS
					Uniplrign out		l o l
				200	Yellow	8	Ξ.
					Ign in		ΣI
					Black/blue	14	တ
			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

Copyright Digital Technology

Date: 24 Mar 2004 Page: 61

Ref: BMW132.pdf

54

20

44

Perfect Power Wiring Diagram



ECU make:

Model: 540

Year: 1997

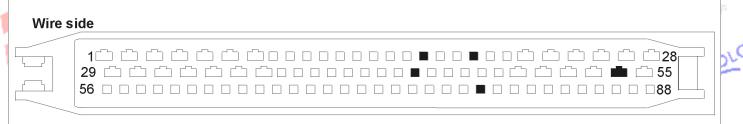
Comments:

ECU Location: Engine bay left under aircon filters

Click here to return to BMW Menu.

Vehicle make: BMW

ECU Pin Out



Red

Power Black

Ground

Wiring Diagram

ECU

78

17

Global Settings

Pin no.

13

1

17

5

19

8

14

15

22

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

7 Brown Analog defl 18 Violet Analog out 6 Blue HARN Analog in

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

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

ENGINE

Airflow signal

Crankshaft sensor

Copyright Digital Technology

Ground

Power

Throttle position sensor

Date: 24 Mar 2004 Page: 62

Ref: BMW133.pdf



ECU make: Bosch Motronic 5.2

Model: 318iS/Coupe (E36)

Year: 1996-99

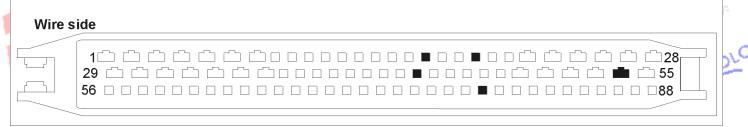
Comm<mark>en</mark>ts: Ensure wiring is correctly insulated in the engine bay

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

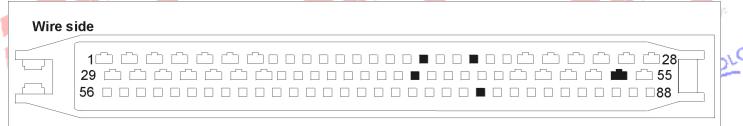
Comments:

ECU Location:

Vehicle make:

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
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

Copyright Digital Technology

Ground

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.

Injector and

Black/Brown Lambdain

22

ENGINE



ECU make: Siemens MS 42

320i (E46) (20 6S 4)

Year: 1998-02

Comments:

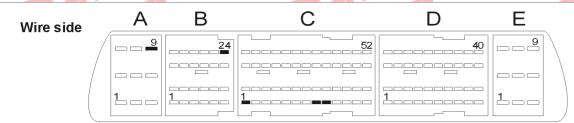
Model:

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	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 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: 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.



Siemens MS 42 ECU make:

323i (E46) (25 6S 4)

1998-02 Year:

Comments

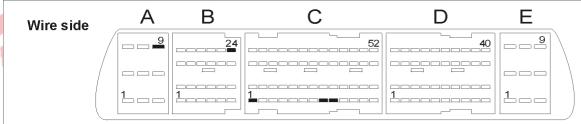
Model:

ECU Location:

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

Vehicle make:

ECU Pin Out



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.

			5	Wi	ring Diagram	-ct			
			EC	CU					
A9	B24	C9	C1	C8		Red)in n 13	<u>。.</u>	
						Power			
						Black Ground	1		
						Brown	7		1
						Analog defl	ا ، ا		
						Violet Analog out	18	잃	
						Blue	6	SMT6 WIRING HARNESS	
						Analog in White/Blue	17		
						Digital out	1	뒥	
						White/Red	5	[
						Digital in		$ \geq $	
						Pink	19		
						Biplini gnout		M	1
						White Uniplrignout	20	>	
						Yellow	8	16	
		ő				Ign in		돚	
		ens			,	Black/blue	14	07	
		S U		180		Pullup Black/Blue	15		
		itio		ser		Pullup	1		
		Throttle position sensor	Airflow signal	Cranksh <i>a</i> ft sensor		Green	لوا		
Ļ.	밀	‡	8	S.		Injector and	П		
Power	Ground	iot	è	an		Black/Brown	22		
ď	ပြ	Ė	Αi	Ü		Lambdain	J		

Copyright Digital Technology

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.



Siemens MS 42 ECU make:

Model: 328i (E46) (28 6S 2)

1998-02 Year:

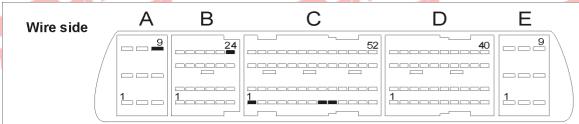
Comments

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	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

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Date: 24 Mar 2004 Page: 128

Ref: BMW146.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: 730i (E32)

Year: 1992-94

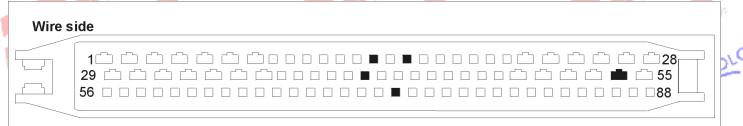
Comments:

ECU Location:



Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

			P			The second secon			
			E(CU					
54	14	73	41	16		Red	Pin n 13	<u>~</u>	
•						Power	10		
						Black	1		
						Ground	┨╻		
		١ ,				Brown	7		
						Analog defl	اہ۔ا		
						Violet Analog out	18	ကြွ	
						Blue	16		
			4			Analog in	_	۱۳۱	
						White/Blue	17	(일	
						Digital out		[우]	
						White/Red	5	方	
						Digital in		>	
						Pink	19	I≒I	1
						Biplrign out	_	Ü	
						White	20	SMT6 WIRING HARNESS	
						Uniphrigh out	8	9	
		_			<u> </u>	Yellow Ign in	°	∣ţ∣	
		99				Black/blue	14	m	
		Ser		=		Pullup			
		Ē)SU		Black/Blue	15		
		siţi	Ď	Se		Pullup			
		Throttle position sensor	sensor	Crankshaft sensor		Green	9		
_	g	₽	φ (0	ক		Injector and			1
Power	Ground	jo	M.A.S	a i		Black/Brown	22		
ď	อ	⊨	25	ပ်		Lambdain			
	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.

Copyright Digital Technology

Date: 24 Mar 2004 Page: 67

Ref: BMW115.pdf



ECU make: Bosch Motronic M3.3

Model: 730i (E38)

Year: 1994-96

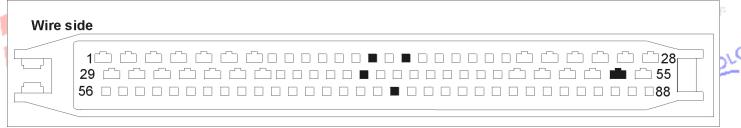
Comments:

ECU Location:



Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

			<u> </u>		ang Diagram		_		
			E	CU					
54	14	73	41	16		Red	Pin n]13	<u> </u>	
,						Power	\Box		
						Black	1		
						Ground	 		
		٠				Brown Analog defl	Н		
						Violet	18	ا ۸۸	
			'			Analog out		씽	
						Blue	6	ш	
						Analog in		몽	
						White/Blue	17	됩	
						Digital out	↓ _ l	Ť	
						White/Red	5	(2)	
						Digital in	. I	ž	
						Pink	19	\Box	
						Biplrign out	. I	Ţ	
						White Uniplrign out	20	SMT6 WIRING HARNESS	
						Yellow	[8]	9	
		5				Ign in	\Box	≥	
		Throttle position sensor				Black/blue	14	တ	
		စိ		ģ		Pullup	┚		
		6		, su		Black/Blue	15		
		siti	sensor	, w		Pullup			
		8	e	ig.		Green	9		
_	덜	₽	ω (0	ত		Injector and	. I		
Power	Ground	Ď	M.A.S	Crankshaft sensor		Black/Brown	22		
å	ច	<u>f</u>	E .	ပြ		Lambdain	J │		
					l				

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: 68

Ref: BMW116.pdf



ECU make: Bosch Motronic M3.3

Model: 740i (E32)

Year: 1992-94

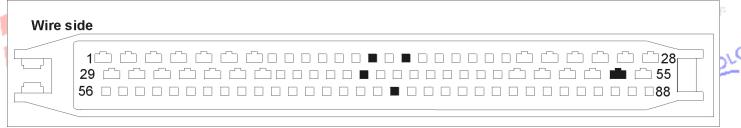
Comments:

ECU Location:



Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

			P .	<u> </u>	ing Diagram	-			
			E(CU					
54	14	73	41	16		Red	jin n]13	<u>。. </u>	
•						Power Black	1		
						Ground Brown	7		
		'				Analog defl	一		
						Violet Analog out	18	တ္က	
						Blue	6	Ш̈́	
						Analog in	17		
						White/Blue Digital out	\Box	두	
						White/Red	5		
						Digital in	19	ž	
						Pink Biplrignout	19	\mathbb{Z}	
						White Uniplrign out	20	SMT6 WIRING HARNESS	
						Yellow	LB	16	
		ĕ				Ign in	ृ ा	홌	
		ien 6		L		Black/blue	14	07	
		on 6		080		Pullup Black/Blue	15		
		sitic	sor	se		Pullup			
		0d (sensor	haff		Green	9		
ğ	P P	l ≝	တို	nks		Injector and Black/Brown	22		
Power	Ground	Throttle position sensor	M.A.S	Cranksh <i>a</i> ft sensor		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: 69

Ref: BMW117.pdf

ECU make:

Model: 540

Year: 1998

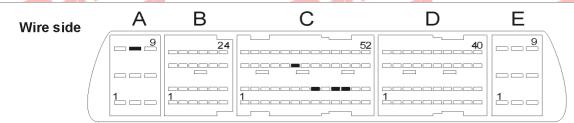
Comments:

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	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. 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 Black/Blue 15

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Ground

Power

Airflow signal

ENGINE

Date: 24 Mar 2004 Page: 70

Ref: BMW136.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: Bosch Motronic M3.3.1

Model: 520i 24V Vanos (E34)

Year: 1992-96

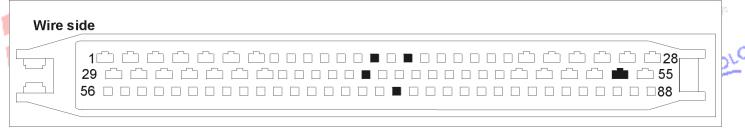
Comments:

ECU Location: Passenger shock tower

Vehicle make: BMW

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

			<u> </u>		ang Diagram		_		
			E	CU					
54	14	73	41	16		Red	Pin n]13	<u> </u>	
,						Power	\Box		
						Black	1		
						Ground	 		
		٠				Brown Analog defl	Н		
						Violet	18	ا ۸۸	
			'			Analog out		씽	
						Blue	6	ш	
						Analog in		몽	
						White/Blue	17	됩	
						Digital out	↓ _ l	Ť	
						White/Red	5	(2)	
						Digital in	. I	ž	
						Pink	19	\Box	
						Biplrign out	. I	Ţ	
						White Uniplrign out	20	SMT6 WIRING HARNESS	
						Yellow	[8]	9	
		5				Ign in	\Box	≥	
		Throttle position sensor				Black/blue	14	တ	
		စိ		ģ		Pullup	┚		
		6		, su		Black/Blue	15		
		siti	sensor	, w		Pullup			
		8	e	ig.		Green	9		
_	덜	₽	ω (0	ত		Injector and	. I		
Power	Ground	Ď	M.A.S	Crankshaft sensor		Black/Brown	22		
å	ច	£	E .	ပြ		Lambdain	J │		
					l				

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:

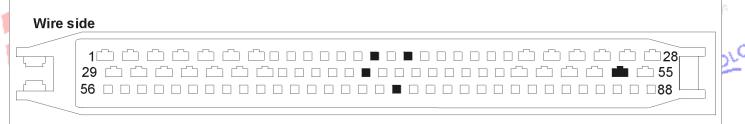
Comments:

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
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 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

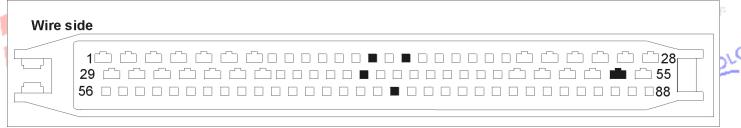
Comments:

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.

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Date: 24 Mar 2004 Page: 73

Ref: BMW103.pdf



ECU make: Bosch Motronic M3.3.1

Model: 525i 24V Vanos (E34)

Year: 1992-96

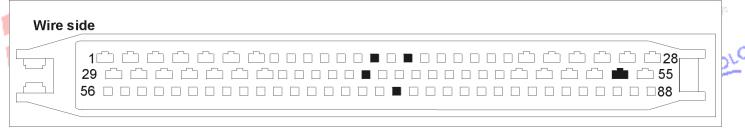
Comments:

ECU Location: Passenger shock tower

Vehicle make: BMW

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

		-			mig Diagram		_	
			EC	<u>CU</u>				
54	14	73	41	16			Pin no	<u>o.</u>
						Red	13	
						Power	4 . I	
	١ ,					Black	1	
						Ground	1 7	
		١ ،				Brown	Н	
						Analog defl	ا ، . ا	
						Violet	18	\mathcal{Q}
						Analog out Blue	6	83
			4			Analog in	H	=
						White/Blue	12	짇
						Digital out	+	⊴
						White/Red	5	<u></u>
						Digital in	Н	9
						Pink	19	\leq
						Biplrignout	\Box	SMT6 WIRING HARNESS
						White	201	₹
						Uniplrign out	\Box	6
						Yellow	עשַן	ĭ
		5				Ign in	л	Σ
		S C				Black/blue	14	O
		ဖွ		ĕ		Pullup	П	
		5		SUS		Black/Blue	15	
		Throttle position sensor	sensor	Crankshaft sensor		Pullup	\Box	
		&	e L	ìafi		Green	9	
<u></u>	덜	i e	ဖြ	ভ		Injector and	4 l	
Power	Ground	[E	M.A.S	ĕ		Black/Brown	22	
ď	ত	₽	2	ပြ		Lambdain	J [
					l			

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: 74

ENGINE

Ref: BMW 105.pdf

ECU make:

Model: 2.0 & 2.5 24V no Vanos

Year:

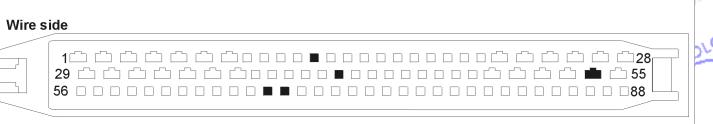
Comments:

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	a:		
			E(1		<u>.</u>	_	
54	68	12	41	67	Red	jin n]13	<u>~</u>	i
•					Power	13		
					Black	1		
	1				Ground	<u> </u>		
					Brown	1 7 1		
		1			Analog defl	Ė		
					Violet	18		
					Analog out		1221	
					Blue	6	Ш	
			4		Analog in		뒫	
					White/Blue	17	[뜻]	
					Digital out		[우]	-
					White/Red	5	方	
					Digital in		$ \geq $	
					Pink	19		
					Biplini gnout	\Box	造	
					White	20	SMT6 WIRING HARNESS	
					Uniphrign out]	ဖြ	
					 Yellow	8		
		Į į			Ign in	┨	응	
		l ši			Black/blue	14	"/	
		Ø C		SOF	Pullup	15		
		ligi		en en	Black/Blue	13		1
		l Si	sensor	l ±	Pullup	┨╻╿		
		ر ق	Ę,	i i	Green	9		
ē	<u> </u>	≝		हू	<u>Injector and</u> Black/Brown	22		
Power	Ground	Throttle position sensor	V.A.F	Crankshaft sensor	Lamb da i n			
α.	യ	-	>	٥	Carrio da TIT	1		

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.

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ENGINE

Ref: BMW106.pdf



ECU make: B

Bosch Motronic M1.7

Model:

316i (E36) (16 4E 1)

Year:

1991-93

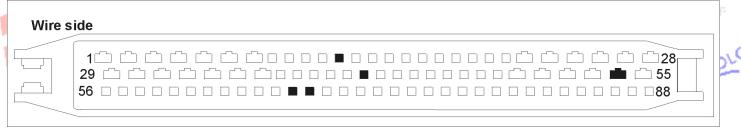
Comments:

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
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 Pink 19 Biplrign out White Uniplrign out 8 Yellow Ign in Throttle position sensor 14 Black/blue Pullup Crankshaft sensor Black/Blue 15 Pullup sensor Green Injector and Ground ш 22 Black/Brown Lambdain

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Date: 24 Mar 2004 Page: 76

Ref: BMW107.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

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

Year: 1991-93

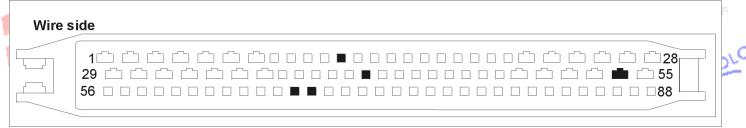
Comments:

ECU Location:



Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

			<i>y</i>	VV	iring Diagrain	-	_		
			EC	טנ					
54	68	12	41	67			Pin n	<u>°. </u>	
						Red	13		
						Power	١. ا		
	,					Black	1		
						Ground	┨╻		١
						Brown	7		
						Analog defl	ا ـ ـ ا		
						Violet	18	ဟ	
						Analog out	ا ہ ا	123	
						Blue	6	ᄬ	
						Analog in	ا۔ ا		
						White/Blue	17	<	ĺ
						Digital out White/Red	5	工	
						Digital in	Ŭ	9	
						Pink	19	Z	
						Biplrignout	17	SMT6 WIRING HARNESS	
						White	20	Ν	
						Uniphrign out	20	_>	
						Yellow	8	9	
		_				Ign in	Ť	듓	
		980				Black/blue	14	$\overline{\Omega}$	
		Ser		=		Pullup			
		Ë		980		Black/Blue	15		
		iii	5	Sel		Pullup			
		%	sensor	#E		Green	ا و ا		
	ਬੂ	<u>e</u>		ű,		Injector and			
Š	Ž	#	ᄔ	홑		Black/Brown	22		
Power	Ground	Throttle position sensor	V.A.F	Crankshaft sensor		Lambdain			
ъ.	~						_		

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: BMW 108.pdf



ECU make: Bosch Motronic M1.7

Model: 518i (E34)

Year: 1989-95

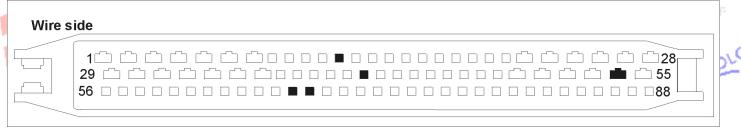
Comments:

ECU Location:



Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

			E(711			
E 4	60	4.0	1	1		Pin	no.
54	68	12	41	67	R	ed 13	
,					Po	ower	
					В	lack 1	
	'					round	
		١.				rown 7	
		'				nalog defl	
						iolet 18	
						nalog out	Ŭ
						lue 6	┥╩╽
					_	nalog in	151
						/hite/Blue 17	ا⊽ا
						oigital out White/Red 5	エ
						oigital in	101
						ink 19	IZI
						ink iplrignout	SMT6 WIRING HARNESS
						Vhite 20	
					Ü	Iniplrign out	ا ح ــ ا
						ellow 8	121
		_		-		gn in	┓⋝
)Si				lack/blue 14	ဟ
		Se.		5		ullup	
		6		SUS	В	lack/Blue 15	
		siti	Ö	Se	Pt	ullup	
		Throttle position sensor	sensor	Crankshaft sensor	G	reen 9	
<u>_</u>	덜	e ∓		্ হ	Ir	njector and	
Power	Ground	į	V.A.F	ant	В	lack/Brown 22	
ď	ပ်	<u></u>	<u> </u>	ပ်	<u> L</u>	ambdain	

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: BMW 109.pdf

erfect

OVVER

www.perfectpower.com

ECU make:

Model: 530 & 540 V8

Year:

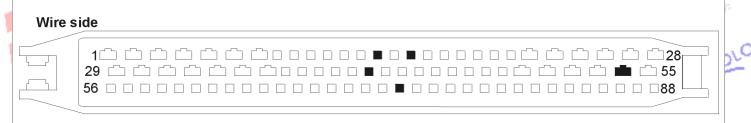
Comments:

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

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 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:

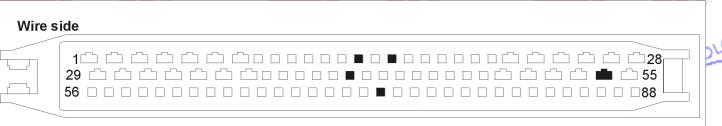
ECU Location:

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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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:

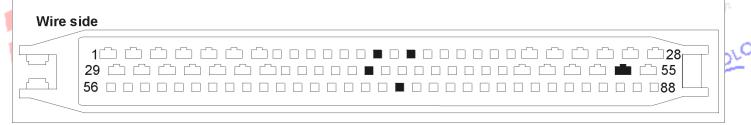
Comments:

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 S	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 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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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)

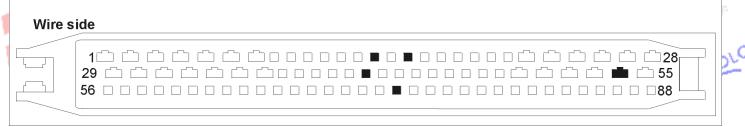
1992-96 Year:

Comments:

ECU Location: Passenger shock tower Vehicle make:

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

			E	CU			
54	14	73	41	16	Red	jin n]13	<u>~</u>
1					Power	10	
					Black	1	
	1				Ground		1
					Brown	1 7	
		1 1			Analog defl		
					Violet	18	
					Analog out		SMT6 WIRING HARNESS
					Blue	6	Ш
					Analog in		≅
					White/Blue	17	동
					Digital out		主日
					White/Red	5	(5)
					Digital in		ーラー
					Pink	19	
					Bipliri gnout	4	
					White	20	
					Uniplrign out	┨ _	9
					Yellow	8	
		Į į			Ign in	┨	[줐]
		l š			Black/blue	14	"/
		Ø .		SOF	Pullup	۱	
		i	_	ë	Black/Blue	15	
		Sit	9	ē,	Pullup	-	
		Throttle position sensor	sensor	Crankshaft sensor	Green	9	
6	Ground	l iie	S	<u>s</u>	Injector and	۱	
Power	5	این	M.A.S	9	Black/Brown	22	
ă	Ö	<u>+</u>	Σ	ပြ	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.

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ENGINE

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.



ECU make: Bosch Motronic M3.3

Model: 540i (E34)

Year: 1992-96

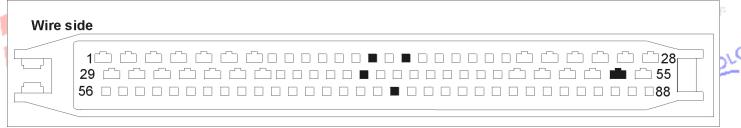
Comments:

ECU Location: Passenger shock tower

Vehicle make: BMW

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

	100					-		
		E(CU					
14	73	41	16				2-	
						13		
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						17	ব	
						↓ _	Ĭ	
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						19		
					Biplrignout	4	Į.	
					White	20		
						1	9	
					-	8		
	ĕ					4	음	
	ı ç					14	07	
	õ		ρ		Pullup	۱. ـ		
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)sit	80	ļ Š		Pullup	4		
	&	ĕ	ুলু		Green	9		
밀	i≡	φ (C)	হ			١		
0.0	Į į	4	ğ			22		
ြုံ	두	Z.	ပြ		Lambdain			
	14 punou9	position sensor	14 73 41	s position sensor	14 73 41 16 sensor	14 73 41 16 Red Power Black Ground Brown Analog defl Violet Analog out Blue Analog in White/Blue Digital out White/Red Digital in Pink Biplri gn out Yellow Ign in Black/blue Pullup Black/Blue Pullup Black/Blue Pullup Green	14 73 41 16 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 Green 9 Pullup Green Pullup Green Pullup Green Pullup Green Pullup Green Pullup Green Pullup Pullup Green Pullup Green	14 73 41 16 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 Biplrian out Yellow 8 Uniplrian out Yellow 8 Ign in Black/blue 14 Pullup Black/blue 15 Pullup Black/Blue 15 Pullup Green 9 Pullup Green

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: BMW114.pdf

37

19

Perfect Power Wiring Diagram



ECU make:

Model: 316 M40

Year:

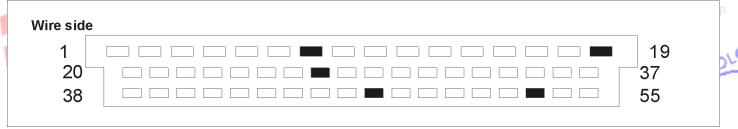
Comments:

ECU Location: Under instrument panel

Vehicle make: BMW

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

ECU

7

			8		Cylind	ers	
47			Pin n	<u>. </u>	Teeth	per turn(ii per firing	ncl mi
-	1	Red	13		Modes	n Config	
		Power	┨.			tive input	pol.
-		Black	1		Posit	tive outpu	t pol
		Ground	١,,			level inpu frequency	
		Brown				rlaced	X

18

22

Analog defl

Analog out

Analog in

Violet

Blue

Lambda Input Click here for an explanation on how to

Global Settings

60

30

ON

ON

OFF

OFF

OFF

OFF

per turn(incl miss)

use the global settings.

One missing tooth

HARN 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 POSLIM Crankshaft Green

ENGINE

ш

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Sound

Power

Date: 24 Mar 2004 Page: 84

Ref: BMW119.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



ECU make: Bosch Motronic M1.1/1.3

Model: 316i/318i (E30)

1988-93 Year:

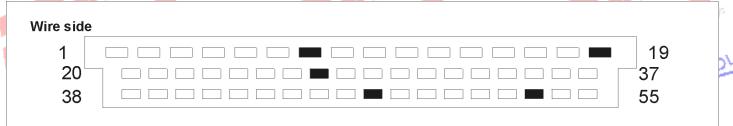
Comments:

ECU Location:

Vehicle make:

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

		The state of the s
		Cylinders
	Di	Teeth per turn(incl miss)
	<u> </u>	Teeth per firing
Red	13	Modes
Dowler		System Config

Positive input pol Positive output pol ON Low level input ON High frequency OFF Interlaced OFF One missing tooth OFF

Global Settings

60

30 1

OFF

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

Lambda Input

ECU 37 19 7 47 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 POSLIM Crankshaft Green Injector and Sound Power щ 22 Black/Brown Lambdain

ENGINE

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Ref: BMW120.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 320i (E30)

Year: 1986-93

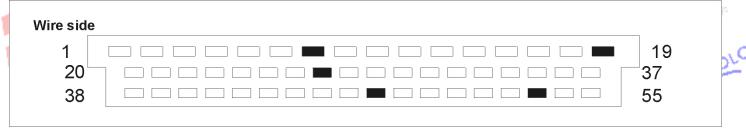
Comments:

ECU Location:



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

ECU Pin Out



Wiring Diagram

		-	<u>vv</u>	mig Diagram	-	_	
		E	CU				
37	19	7	47			Pin n Daal	<u>°. </u>
					Red	13	
					Power	1 ₁	
					Black	┝╧┥	
					Ground	1 7	
				l —	Brown	\vdash	
					Analog defl	ا ا	
		- 9		4	Violet	18	\mathcal{O}
					Analog out Blue	6	8
		3			Analog in	H	涉
					White/Blue	17	귷
		1			Digital out	+	오
					White/Red	5	
					Digital in		91
					Pink	19	\leq
					Biplirign out		SMT6 WIRING HARNESS
					White	20	3
					Uniplrign out	┚	io.
				<u> </u>	Yellow	╚┸	Ĕ.
					Ign in	┚	돚
					Black/blue	14	(7)
			5		Pullup		
			8		Black/Blue	15	
		Ģ	- 8		Pullup	_	
	200	PISOF	la la		Green	9	
<u>_</u>	5		9		Injector and	ا ـ ـ ا	
Power	9 unas	Y.A.F	Crankshaft sensor		Black/Brown	22	
P	ু ত	3	Ü		Lambdain	J [
0.00		200	1080	l			

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	O\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: BMW121.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 325i/325e (E30)

Year: 1985-93

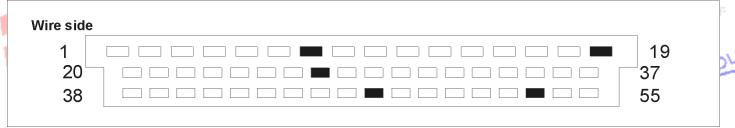
Comments:

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.

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Ref: BMW122.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 318i (E36)

1991-93 Year:

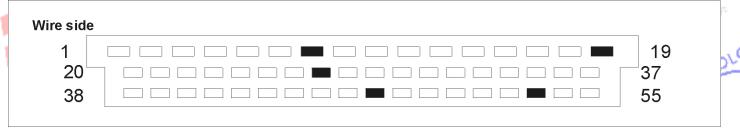
Comments:

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 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

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

щ

ENGINE

Power

Date: 24 Mar 2004 Page: 88

Ref: BMW123.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: 518i (E34)

Year: 1991-93

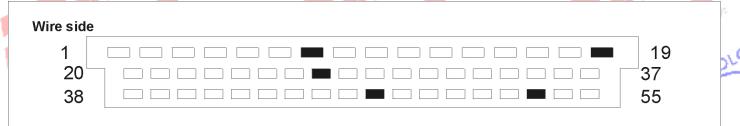
Comments:

ECU Location:



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

ECU Pin Out



Wiring Diagram

						-	
		E	<u>SU</u>				
37	19	7	47		Red) 13	<u>~</u>
1					Power	10	
					Black	1	
					Ground	-	
					Brown	7	
					Analog defl		
		,			Violet	18	ایما
		**			Analog out		181
		- 2			Blue	6	ш
					Analog in		<u>Z</u>
				2 1	White/Blue	17	占
		8			Digital out	_	Ì
					White/Red	5	ပြ
					Digital in	ا ا	ΙŽΙ
					Pink	19	
					Biplrignout	┨ _{╻╻} ╿	
					White Uniplrignout	20	SMT6 WIRING HARNESS
					Yellow	8	9
				I	Ign in	-	탈
					Black/blue	14	\ <u>0</u>
			Ļ.		Pullup		
			8		Black/Blue	15	
		5	8		Pullup		
		Persor	# #		Green	9	
_	9		유		Injector and		
a a	Ground	L.	Cankshaft sensor		Black/Brown	22	
Power	6	V.A.F	C C		Lambdain		
		240	5000	l			

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: 89

Ref: BMW124.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 520i (E34)

Year:

ECU Location:

1991-93 Comments:

Vehicle make:

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

ECU Pin Out



Wiring Diagram

				ing Diagram		_	
		EÇ	טט			<u>,</u>	
37	19	7	47			Pin no. 13	1
Power	Ground	V.A.F ænsor	Crankshaft 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 Yellow Ign in Black/blue Pullup Black/Blue Pullup Green Injector and Black/Brown	13 1 7 18 6 17 5 19 20 8 14 15 9 22	
4	٥	>	O		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: 90

Ref: BMW125.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 525i (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: 91

Ref: BMW126.pdf



ECU make: Bosch Motronic M1.1/1.3

Model: 530i (E34)

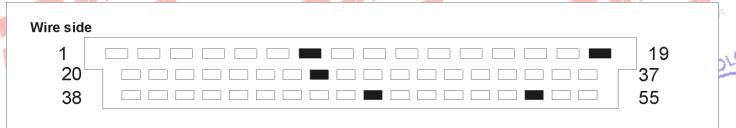
1988-93 Year:

ECU Location:

Vehicle make:

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	O\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



ECU make: Bosch Motronic M1.1/1.3

Model: 535i (E34)

Year: 1988-93

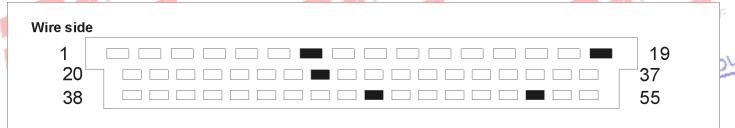
Comments:

ECU Location:

Vehicle make: BMW

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

ECU Pin Out



Wiring Diagram

		EC	CU		- 400.4			
37	19	7	47	li i		∑in n	<u>o.</u>	
٥,	13		-7.0	i i	Red	13		
					Power			L
					Black	1		
	l I			8	Ground	\Box		П
					Brown	7		П
					Analog defl			ı
		8			Violet	18	l on	ı
					Analog out		ĭĭ	ı
		2			Blue	6	Ш	ı
					Analog in		≲	ı
				2 2	White/Blue	17	占	
		1			Digital out		Ì	
					White/Red	5	(0)	
					Digital in	1	ĺž	П
					Pink	19		П
					Biplrign out	4		ľ
					White	20	SMT6 WIRING HARNESS	ı
					Uniphrign out	١.	9	ı
					Yellow	8	Ę	ı
					Ign in	۱	줐	ı
			200		Black/blue	14	~	ı
			ä		Pullup	15		
		90	8		Black/Blue	13		L
		₽ Prsor	Cranks haft sensor		Pullup	۱.		
	<u>_</u>	Ë	Ę		Green	9		
	9 unag		9		Injector and	22		П
Ower	ğ	7. A.F	듄		Black/Brown Lambdain			ı
0	(9)	S 1	()	I	callio da III			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	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: 93

Ref: BMW128.pdf

37

Perfect Power Wiring Diagram



ECU make: Bosch Motronic M1.1/1.3

Model: 730i (E32)

Year: 1986-92

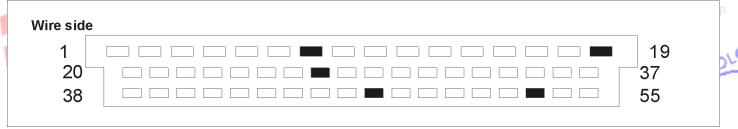
Comments:

ECU Location:



Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

ECU

POSLIM

щ

Crankshaft

ENGINE

Pin no. 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 Biplini gnout White Uniplrign out 8 Yellow

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

Power

Date: 24 Mar 2004 Page: 94

Ref: BMW129.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

Green

Black/blue Pullup Black/Blue

Injector and

Black/Brown

Lambdain

14

15

22



ECU make: Bosch Motronic M1.1/1.3

Model: 735i (E32)

Year: 1986-92

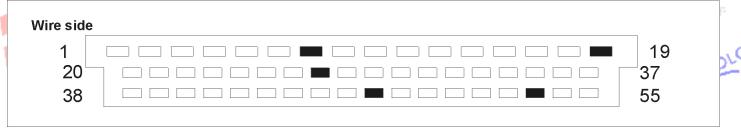
Comments:

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.

Copyright Digital Technology

Date: 24 Mar 2004 Page: 95

Ref: BMW130.pdf



ECU make:

Model: 318i DOHC whith timing chain (M42)

Year:

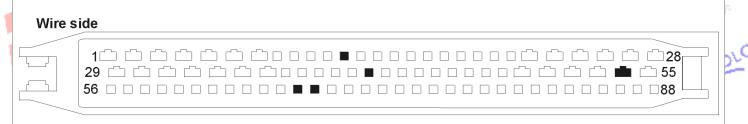
Comments:

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

ENGINE

Copyright Digital Technology

Date: 24 Mar 2004 Page: 96

Ref: BMW131.pdf



ECU make:

Model: 318iS with viscous fan

Year:

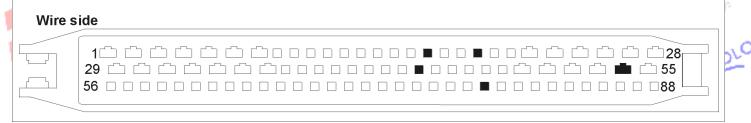
Comments:

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.

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 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

Copyright Digital Technology

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:

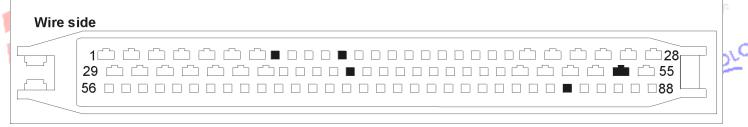
Comments:

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

ENGINE

Copyright Digital Technology

Date: 24 Mar 2004 Page: 98

Ref: BMW138.pdf



ECU make: Siemens MS 41 Vehicle make:

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

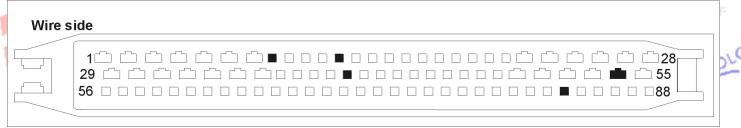
1994-99 Year:

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

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

Date: 24 Mar 2004 Page: 99

ENGINE

Ref: BMW139.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



54

40

12

ECU make: Siemens MS 41 Vehicle make: BMW

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

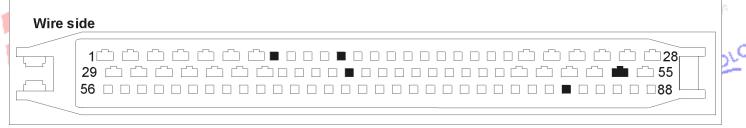
Year: 1995-00

Comments:

ECU Location:

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

ECU

8

Red 13 Modes Power System Config Positive input pol

Ground

Analog defl

Brown

Violet

Positive output pol Low level input High frequency Interlaced One missing tooth Lambda Input

Global Settings

60

30

ON

OFF

OFF

OFF

OFF

Click here for an explanation on how to use the global

settings.

Analog out

Blue
Analog in
White/Blue
Digital out
White/Red
Digital in
Pink
Biplri gn out
White
20

7

18

8

14

15

Yellow Ign in Black/blue

Uniplrign out

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

Green 9 Injector and Black/Brown 22

Lamb da in

Copyright Digital Technology

Ground

Throttle position sensor

Crankshaft sensor

Airflow signal

ENGINE

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.



ECU make: Siemens MS 41

Vehicle make:

Model:

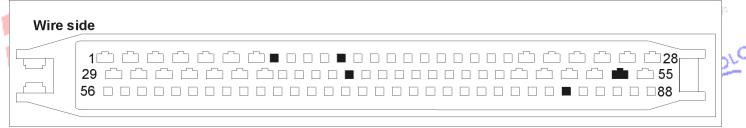
328i (E36) (28 6S 1) 1995-99

Year: Comments

ECU Location:

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.

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

Copyright Digital Technology

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.



54

40

ECU make: Siemens MS 41 Vehicle make:

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

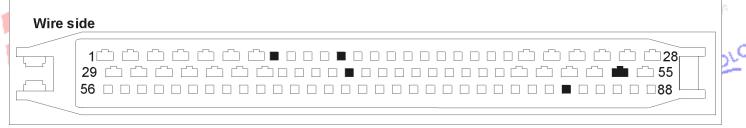
1996-00 Year:

Comments

ECU Location:

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

ECU Pin no 12 8 83 Red 13 Power Black Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue 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 Ign in

Pullup

Green

17

5

19

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	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

Crankshaft sensor

Airflow signal

ENGINE

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

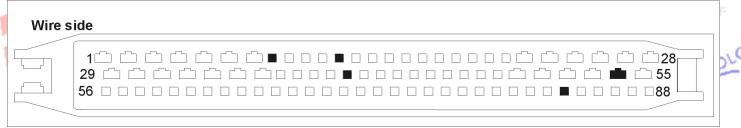
Year: 1996-00 Comments:

ECU Location:

Click here to return to BMW Menu.

Vehicle make:

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.

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:

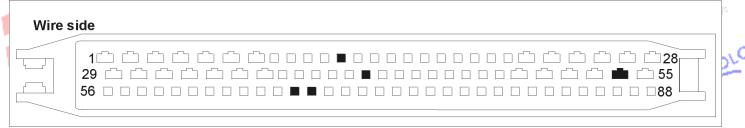
Comments:

ECU Location: Engine bay left in wiper box

Vehicle make: BMW

Click here to return to BMW Menu.

ECU Pin Out



Wiring I	Diagram
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			<i>y</i>		ing biagrain		_		
			EC	<u>CU</u>					
54	68	12	41	67			Jaal Jin n	<u>~</u>	i
•	-					Red Power	13		l
						Black	1		l
	1					Ground	_		ı
						Brown	171		П
		1				Analog defl	H		ľ
						Violet	18	٠,	l
			· '			Analog out		186	l
						Blue	6	SMT6 WIRING HARNESS	l
						Analog in		<u>Z</u>	ı
						White/Blue	17	늄	l
						Digital out		Ì	ı
						White/Red	5	(9)	h
						Digital in	┨ │	Ž	ı
						Pink	19	2	ľ
						Biplrign out	┨╻╻╿		ľ
						White	20	5	ı
						Uniplinign out	8	9	ı
				-	ı	Yellow Ion in	P°-	 	ı
		80				Ign in Black/blue	14	ගි	ı
		ଜୁ		느		Pullup	<u> </u>		L
		يّ) 90		Black/Blue	15		ı
		ļ iģļ	<u> </u>	Ser		Pullup			l
		%	sensor	aft.		Green	9		
L-	9	<u>e</u>	Sel	Ę,		Injector and			П
Š	Ground	#	ഥ	Ĭ		Black/Brown	22		l
Power	5	Throttle position sensor	V.A.F	Crankshaft sensor		Lambdain			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	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: BMW159.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.



49

4

12

Siemens MS 41 ECU make:

Model: 520i 24V Vanos (E39)

1996-99 Year:

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

1

17

5

19

8

14

15

22

¥ H

ECU Location:

Click here to return to BMW Menu.

Global Settings

6

60

20

ON

OFF

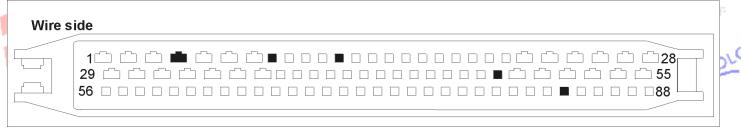
OFF

OFF

OFF

Vehicle make:

ECU Pin Out



Wiring Diagram

ECU

8

Cylinders Teeth per turn(incl miss) Pin no 83 Teeth per firing Red 13 Modes System Config Power

Black

Ground 7 Brown Analog defl 18 Violet Analog out 6 Blue Analog in

White/Blue

Digital out

White/Red Digital in

Biplrign out

Uniplrign out

Black/blue Pullup

Black/Blue Pullup

Pink

White

Yello w Ign in explanation on how to use the global settings.

Click here for an

Positive input pol

Low level input

High frequency

Lambda Input

Interlaced

Positive output pol

One missing tooth

Throttle position sensor Crankshaft sensor Green Injector and Ground Ø Black/Brown ۹ Lambdain

ENGINE

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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.



ECU make: Siemens MS 41

Model: 523i (E39)

1996-99 Year:

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

Pin no

14

15

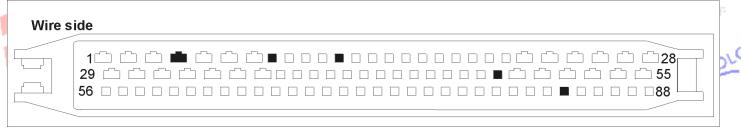
22

ECU Location:

Click here to return to BMW Menu.

Vehicle make:

ECU Pin Out



Wiring Diagram

ECU

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

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

Crankshaft sensor

Ø

۹

ENGINE

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.

Black/blue Pullup

Black/Blue Pullup Green

Injector and

Black/Brown

Lambdain



ECU make: Siemens MS 41

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

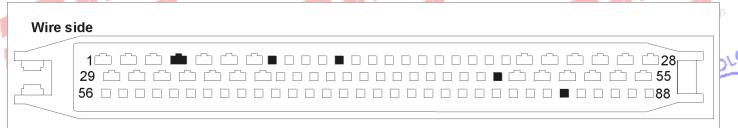
Comments: 19 1ECH

ECU Location:

Vehicle make: BMW

Click here to return to BMW Menu.

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 Black/Blue 15 Pullup Green Injector and Ground Ø 22 Black/Brown ۹ 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	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.

49

4

12

Perfect Power Wiring Diagram



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.

Global Settings

60

30

ON

OFF

OFF

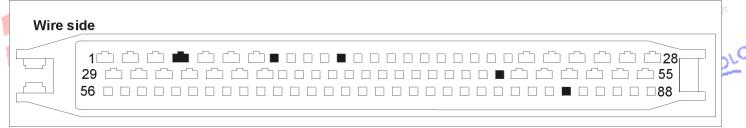
OFF

OFF

Teeth per turn(incl miss)

Vehicle make:

ECU Pin Out



Wiring Diagram

ECU :

8

J					
83	_	P	in n	ο	
03		Red	13		
		Power			
		Black	1		
		Ground			
		Brown	7		1

Violet

Blue

Pink

White

Yello w Ign in

Analog defl

Analog out

Analog in

White/Blue

Digital out

White/Red Digital in

Biplrign out

Uniplrign out

Black/blue Pullup

Black/Blue Pullup Green

Injector and

Black/Brown

Lambdain

Click here for an explanation on how to use the global 17

settings.

Cylinders

Modes System Config Positive input pol Positive output pol

Teeth per firing

Low level input High frequency

One missing tooth

Lambda Input

Interlaced

HARN

18

6

5

19

8

14

15

22

Copyright Digital Technology

Ground

Throttle position sensor

Crankshaft sensor

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ENGINE

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.



37

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48

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.

Global Settings

Teeth per turn(incl miss)

Positive output pol

One missing tooth

Click here for an

explanation on how to

Low level input

High frequency

Lambda Input

use the global

settings.

Interlaced

60

30

ON

ON

ON

OFF

OFF

OFF

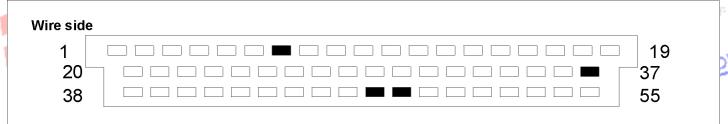
OFF

Cylinders

Modes System Config Positive input pol

Teeth per firing

ECU Pin Out



ECU

GreytYéllow

7

wiring Diagram	1

47	<u>P</u>	'in n	ο.
41	Red	13	
	Power		
	Black	1	
-	Ground		
	Brown	7	
	Analog defl		
	Violet	18	70

Analog out Blue Analog in

6

17

5

19

8

14

15

HARN

Digital out White/Red Digital in

White/Blue

Pink Biplrign out White

Uniplrign out Yellow Ign in

Black/blue Pullup Black/Blue Pullup

Green Injector and 22 Black/Brown Lambdain

ENGINE

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)

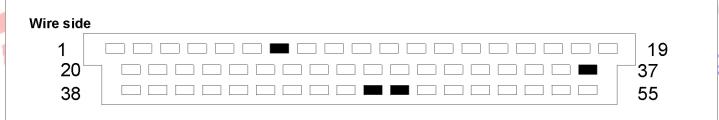
1991-93 Year:

Comments:

ECU Location: Below steering wheel Vehicle make:

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

Global Settings

Cylinders	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 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

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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.

Black/Brown Lambdain



ECU make: Bosch Motronic M1.1/1.3

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

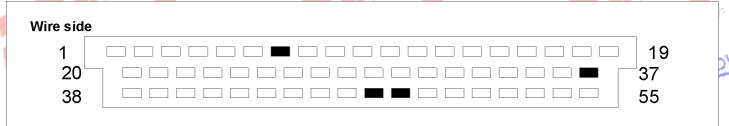
1988-93 Year:

Comments:

ECU Location: Below steering wheel Vehicle make:

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

ECU Pin Out



Wiring Diagram

Global Settings Cylinders

Cymiacis	-
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.

	- 4	EC	11 I			1	
0.7		1000	7.2	1		u Pin n	٥.
37	48	7	47		Red Power	13	
					Black	1	
		1			Ground Brown	7	
		2			Analog defl Violet	18	w
					Analog out Blue	6	SMT6 WIRING HARNESS
					Analog in White/Blue	17	M
					Digital out White/Red	5	H:
					Digital in Pink	19	N S
					Biplrign out		/IR
					White Uniplrign out	20	S 9
					_Yellow Ign in	8	ξ
					Black/blue Pullup	14	ဟ
		2			Black/Blue Pullup	15	
¥		wolla			Green	9	
Red'P ink	Yellow	GreytYellow	Black		<u>Injector and</u> Black/Brown	22	
ď	پ ^۳	ਰ	8		Lamb da in	_	

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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)

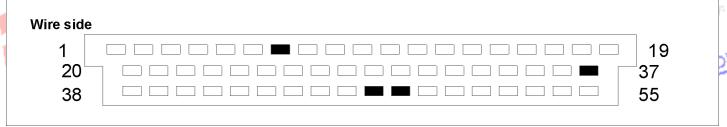
1986-92 Year:

Comments:

ECU Location: Below steering wheel Vehicle make:

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

Global Settings

4
60
30
1
ON
ON
ON
OFF
OFF
OFF
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: 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:

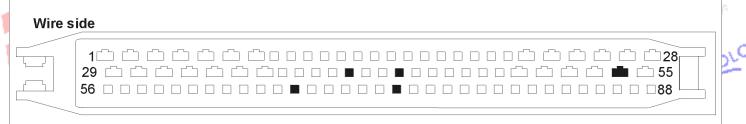
Comments:

ECU Location: Engine bay left near wiper box

Click here to return to BMW Menu.

Vehicle make: BMW

ECU Pin Out



Wiring Diagram

Global Setting

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)

Year: 1994-98

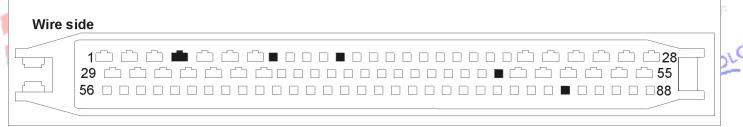
Comments: May not be able to do ignition modifications on this car

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	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: 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.



ECU make: Siemens MS 41

Model: 323i/Compact (E36)

1995-98 Year:

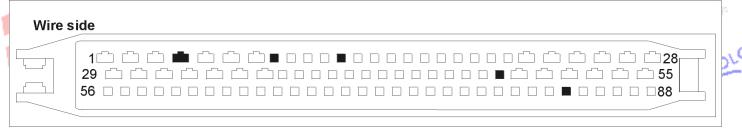
May not be able to do ignition modifications on this car Comments:

ECU Location:

Click here to return to BMW Menu.

Vehicle make:

ECU Pin Out



Wiring Diagram

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

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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.

Lambdain



ECU make: Siemens MS 41

Model: 328i (E36)

Year: 1995-98

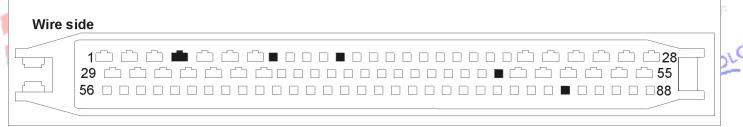
Comm<mark>en</mark>ts: May not be able to do ignition modifications on this car

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.



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

Model: 320i 24V (E36)

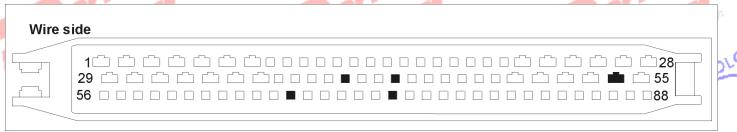
1991-92 Year:

Comments:

ECU Location: Engine bay left Vehicle make:

Click here to return to BMW Menu.

ECU Pin Out



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

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.

5

19

8

14

15

22

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Black

RedWyhite

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.

White/Red Digital in Pink

Biplrign out

Uniplrign out

Black/blue Pullup

Black/Blue

Injector and

Black/Brown Lambdain

White

Yellow Ign in

Pullup

Green

Crankshaft sensor



ECU make: Bosch Motoronic M3.1

Model: 320i 24V Vanos (E36)

Year: 1992-97

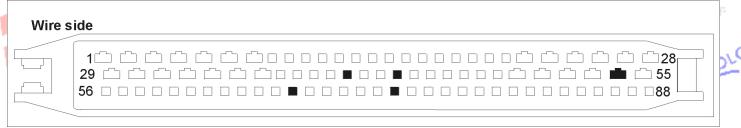
Comments:

ECU Location: Engine bay left

Vehicle make: BMW

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

			-		mig Diagram		_	
			E	CU				
54	43	73	41	67			oin n	<u> </u>
						Red	13	
						Power	┨.	
						Black	1	
						Ground	┨ _ │	
						Brown	7	
						Analog defl	١. ـ ا	
						Violet	18	ကြ
						Analog out	١. ا	SMT6 WIRING HARNESS
						Blue	6	l삨l
						Analog in	١	(Æ
						White/Blue	17	ব
						Digital out	5	エー
						White/Red	3	ပြ
						Digital in	┨	z
						Pink	19	
						Biplrign out	-	
						White	20	5
						Uniphrign out	┨ _ │	ω
						Yellow	8	
						Ign in	┨	응
						Black/blue	14	07
				ρ		Pullup	۱. ـ ا	
				Ě		Black/Blue	15	
		꽁	≩	Cranksh <i>a</i> ft sensor		Pullup	-	
RedWYhite		Brown∖Black	GreytYellow	ভূ		Green	9	
Ž	,		≱	ত		Injector and	١	
ģ.	Black	8	્રેલું	ig ig		Black/Brown	22	
ω̈́.	ä	ā	อ	ပြ		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: 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)

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 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

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: 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

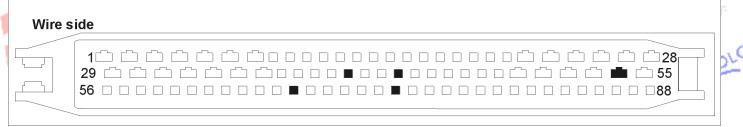
Comments:

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

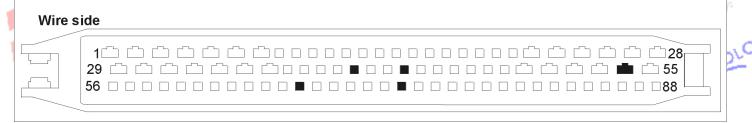
Comments:

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	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 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

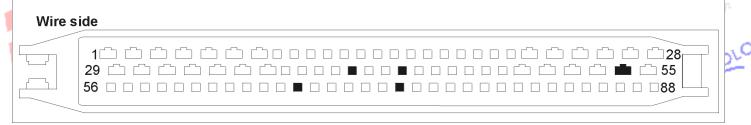
Comments:

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.

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 ed\\\\hite Green Injector and Black 22 Black/Brown Lambdain

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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.



ECU make: Bosch Motronic M1.1/1.3

Model: 316i/318i (E30)

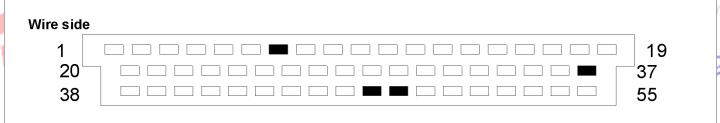
1988-93 Year:

Comments:

ECU Location: Under steering wheel 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
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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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)

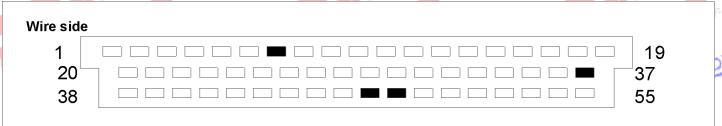
1986-93 Year:

Comments:

ECU Location: Below steering wheel Vehicle make:

Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

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 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 GreytYéllow Green Ě Injector and 22 Black/Brown Lambdain

ENGINE

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Date: 24 Mar 2004 Page: 110

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.

1995-00



ECU make:

Bosch Motronic M1.7.3

Model:

316i (E36)

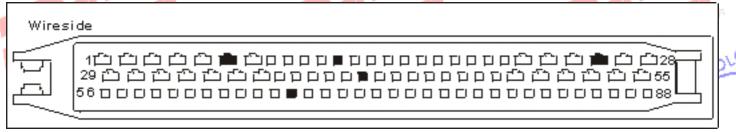
Comments:

ECU Location:



Click here to return to BMW Menu.

ECU Pin Out



Wiring Diagram

Global Settings

and the same of th	
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
OH TELL	

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

ECU Pin no. 6 12 41 26 67 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 hottle positon sensor 14 Black/blue /olume airflowsignal Pullup 8 15 Black/Blue Pullup Crankshaft Green Injector and Brand Power 22 Black/Brown

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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.

Lambdain



6

26

12

ECU make: Bosch motronic M1.7.3

Model: 318i (E36)

Year: 1995-99

Comments:

ECU Location:



Click here to return to BMW Menu.

Global Settings

60

30

Teeth per turn(incl miss)

Positive input pol

Low level input

Click here for an

explanation on how to

use the global settings.

Positive output pol

Cylinders

Modes System Config

HARN

17

5

19

8

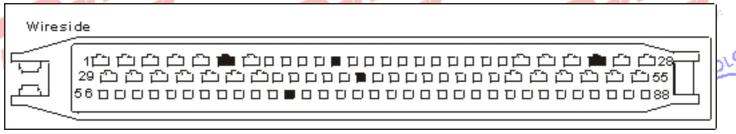
14

15

22

Teeth per firing

ECU Pin Out



Wiring Diagram

ECU

41

67 Red 13 Power Black 1 Ground Brown 7

Analog defl
Violet 18
Analog out
Blue 6
Analog in

Digital out White/Red Digital in

White/Blue

Pink Biplrign out White

wnite Uniphrign out Yellow Ign in

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

Green <u>Injector gnd</u> Black/Brown Lambdain

ENGINE

8

Crankshaft

/olume airflowsignal

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Brand

Š Š hottle positon sensor

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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.

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

Airflowsensor

ENGINE

Pin no. 1 Red 13

Power Black Ground

Brown Analog defl Violet

1

7

18

6

17

5

19

8

14

15

22

HARN

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

external ignition amplifier Black/Brown Lambdain

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Sound

Ower

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Ref: BMW640.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.

Teeth per turn(incl miss) Teeth per firing Modes System Config

Cylinders

Positive input pol Positive output pol Low level input

Global Settings

NOG

10

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