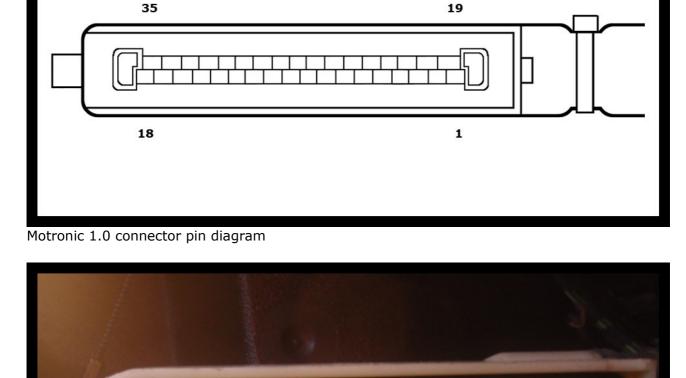
MOTRONIC 1.0 Pinout

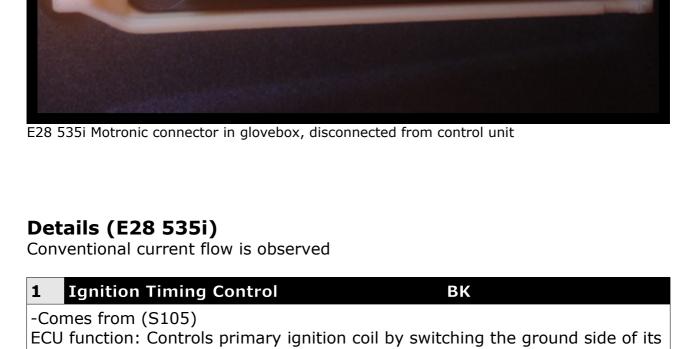
BMW E28 535i

1	Ignition Timing Control	10	10 Crown d	
2	Closed Throttle Input	19	Ground	
3	Wide Open Throttle Input	20	Fuel Pump Relay Control	
		21	Engine Speed Output	
4	Start Engine Input	22	Air Inlet Temperature Input	
5	Ground/Shield	23	Shields	
6	Common for Air Flow Meter			
7	Air Flow Input	24	Oxygen Sensor Input	
8	Engine Speed Sensor Input	25	Reference Point Sensor Input	
		26	Reference Point Sensor Input	
9	Reference Output for Air Flow Meter	27	Engine Speed Sensor Input	
10	?	28	Transmission Input	
11	Fuel Rate Output		•	
12	?	29	A/C On Input	
13	Engine Temperature Input	30	- Empty -	
		31	Oxygen Sensor Heater Control	
14	Fuel Injector Control 1,2,3	32	- Empty -	
15	Fuel Injector Control 4,5,6	33	Idle Speed Actuator	
16	Ground			
17	Ground	34	Idle Speed Actuator	
18	(+) Continuous Power Input	35	(+) Ignition Power Input	
	, , , , , , , , , , , , , , , , , , , ,			



Bosch Motronic 1.0 Connector

Mating Face



-Comes from pin (4) of air flow meter connector

ETM 1360-7

Air Flow Input

ETM

circuit

ETM 1360-7 **Engine Speed Sensor Input** -Comes from engine speed sensor connector (black connector)

-Comes from pin (2) of air flow meter connector

Common for Air Flow Meter

Standard: Connected to socket (17) via (C131) and is ultimately grounded to (G102)Automatic: Goes to socket (2) of (C238) and ultimately pin (ME) of

ETM 1360-1, 2460-3

Fuel Rate Output

10

11

-Goes to socket (5) of diagnostic connector ETM 1360-1

-Comes from (S106)

24 Oxygen Sensor Input -Comes from (C141) of oxygen sensor

Transmission Input Standard: Goes to socket (1) of (C132) and ultimately is grounded to (G102) Automatic: goes to socket (6) of (C238) and ultimately pin (2) of (C1) to the

Engine Speed Sensor Input

ETM 1360-1, 1360-7

ETM 1360-1, 1360-7

Oxygen Sensor Heater Control

ETM 1360-1, 6411-0, 6454-0

30

Idle Speed Actuator

-Extend control

ETM

-Comes from (5) of idle speed actuator

ETM 1360-7 **Idle Speed Actuator** BK/GN -Comes from (3) of idle speed actuator -Retract control

ETM 1360-1 **Closed Throttle Input** BR/BU -Goes to (LL) of throttle switch ETM 1360-1 BR/BK **Wide Open Throttle Input** -Goes to (VL) of throttle switch ETM 1360-1 **Start Engine Input** BK/YL ETM 1240-0 **Ground/Shield** BR -Goes to (G102) -Grounds shield of reference point sensor wires

GY/BU

GY/YL

STANDARD BR

WT

AUTO BR/GN

ETM 1360-1, 1360-7 Reference Output for Air Flow Meter GY/WT -Comes from pin (3) of air flow meter connector ETM 1360-7

pin (KL11) of the instrument cluster circuit board ETM 6210-0, 6210-4, 6581-1, 6581-2 12 WT/GR

-Goes to pin (3) of (C103) and ultimately socket (2) of (C1) which plugs into

transmission control unit connector (socket (24) of connector)

-Comes from (S109) three at the same time)

ETM 1360-1 17 Ground BR -Goes to (G102) -Is connected to socket (10) via (C131)

to pin (TD) of instrument cluster circuit board ETM 6210-4

ETM 1360-1, 1360-7 **Reference Point Sensor Input** BK

-Comes from engine speed sensor connector (black connector)

BK

BR/BK

GY/BR

WT/YL

transmission range switch ETM 1350-1, 1360-0, 1360-1 29 A/C On Input **BU/BK** -Comes from A/C compressor clutch

- Empty -

ETM 1250-0 - Empty -

-Comes from socket of pin (85) of oxygen sensor relay

ETM 1360-7 (+) Ignition Power Input RD/BU -Comes from socket of pin (87) of main relay -Hot in 'RUN' or 'START'

This is an unfinished doucment.