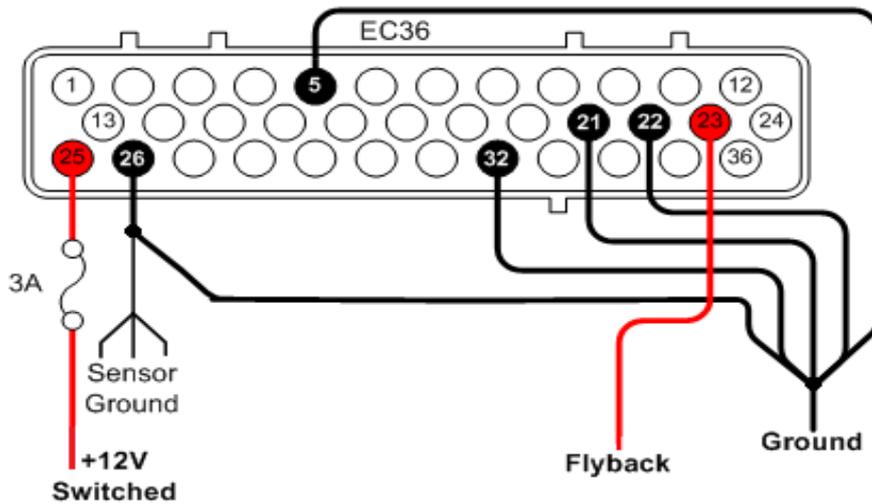


VEMS Volvo B230 connection chart

<u>Component</u>	<u>Function</u>	<u>Vems pin EC36</u>
Ign Coil 1	Grounding output	35
Injector 1	Grounding output	7
Injector 2	Grounding output	19
Injector 3	Grounding output	8
Injector 4	Grounding output	20
Sw. Ignitionlock +12V (15)	Sw. +12V	25
Tacho	Grounding output	EC18/4
Crank trigger (VR) +	Signal +	27
Crank trigger (VR) -	Signal -	26
Camshaft trigger	Signal	N/C
TPS	Signal	1
TPS	Feed +5V	29
IAT	Signal	2
CLT	Signal	14
Fuelpump	Grounding output	10
Main relay control	Grounding output	N/C
Power ground (31)	Ground	5
Power ground (31)	Ground	21
Power ground (31)	Ground	22
Power ground (31)	Ground	32
Sensor Ground	Ground	26
Flyback	Conn to Inj feed	23

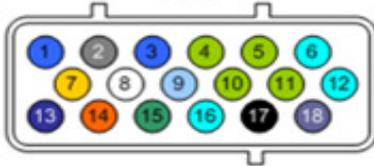


VEMS V3.6 ECU Pin outs

View from back of Econoseal plugs

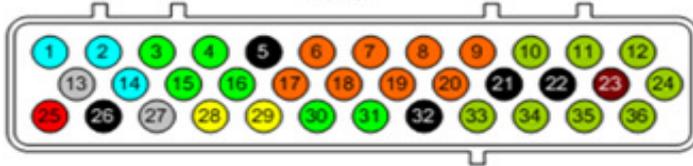
- 1 Analog ch.0/Knock1 (dep. on spec)
- 2 Analog ch.5
- 3 Analog ch.2
- 4 Stepper A
- 5 Stepper C
- 6 Analog ch.6/MAP IN (dep. on spec)
- 7 WBO2 Pump -
- 8 Wheel Speed Input
- 9 WBO2 Pump +
- 10 Stepper B
- 11 Stepper D
- 12 Analog ch.7/2nd VR (dep. on spec)
- 13 WBO2 Nerst signal
- 14 RS232 DSUB9 pin 3
- 15 RS232 DSUB9 pin 2
- 16 Analog ch.1/Wire In (dep. on spec)
- 17 Ground
- 18 WBO2 Heater

EC18



- 1 TPS IN
- 2 IAT IN
- 3 P259 ch.4
- 4 P259 ch.0
- 5 Ground
- 6 Injector7 ch.64
- 7 Injector1 ch.1
- 8 Injector3 ch.4
- 9 Injector5 ch.16
- 10 Ignition output 07
- 11 Ignition output 04
- 12 Ignition output 05
- 13 Secondary Trigger
- 14 CLT IN
- 15 Fuel Relay (P259 ch.5)
- 16 P259 ch.1
- 17 Injector8 ch.128
- 18 Injector6 ch.32
- 19 Injector2 ch.2
- 20 Injector4 ch.8
- 21 Ground
- 22 Ground
- 23 Flyback -See transient diode info.
- 24 Ignition output 06
- 25 12v Battery
- 26 Ground
- 27 Primary Trigger
- 28 +5V Supply
- 29 TPS Supply
- 30 P259 ch.7
- 31 P259 ch.6
- 32 Ground
- 33 Ignition output 01
- 34 Ignition output 02
- 35 Ignition output 00
- 36 Ignition output 03

EC36



- 5 WBO2 Pump -
- 6 WBO2 Pump +
- 3 12v Battery (5A Fuse)
- 4 WBO2 Heater
- 1 WBO2 Nerst signal
- 2 Not Connected