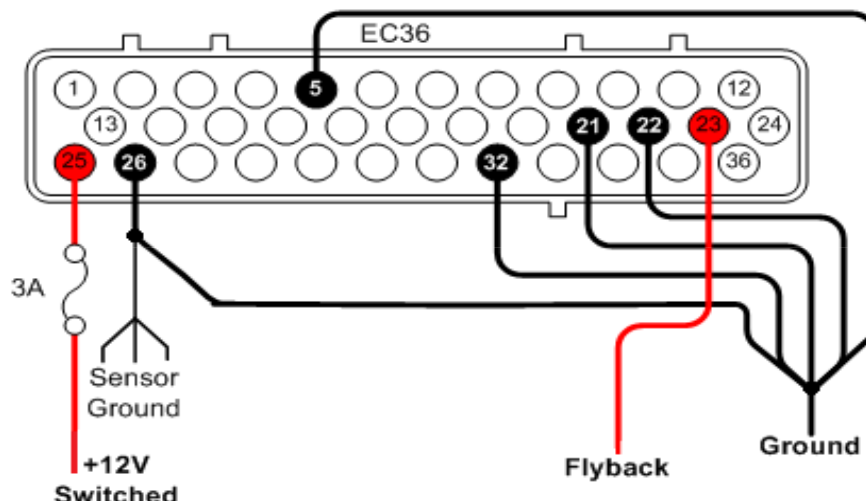


# VEMS -> Motronic 88 pin BMW M50 Vanos

Adapter harness v1.03

<u>Component</u>	<u>Function</u>	<u>Motronic pin</u>	<u>Vems pin EC36</u>
Ign Coil 1	Grounding output	50	35
Ign Coil 2	Grounding output	51	12
Ign Coil 3	Grounding output	52	34
Ign Coil 4	Grounding output	23	36
Ign Coil 5	Grounding output	25	11
Ign Coil 6	Grounding output	24	33
Injector 1	Grounding output	33	7
Injector 2	Grounding output	32	19
Injector 3	Grounding output	31	8
Injector 4	Grounding output	5	20
Injector 5	Grounding output	3	9
Injector 6	Grounding output	4	18
Sw. Ignitionlock +12V (15)	Sw. +12V	56	
Main Relay feed	Feed +12V	54	25
Vanos control	Grounding output	7	24
Tacho	Grounding output	47	EC18/4
Crank trigger (VR) +	Signal +	43	27
Crank trigger (VR) -	Signal -	16	26
Camshaft trigger (HALL)	Signal	17	13
TPS	Signal	73	1
TPS	Feed +5V	59	29
IAT	Signal	77	2
CLT	Signal	78	14
Fuelpump	Grounding output	1	10
Main relay control	Grounding output	27	N/C
Power ground (31)	Ground	55	5
Power ground (31)	Ground	6	21
Power ground (31)	Ground	28	22
Power ground (31)	Ground	34	32
Sensor Ground	Ground	44	26
Flyback	Conn to Inj feed	54	23

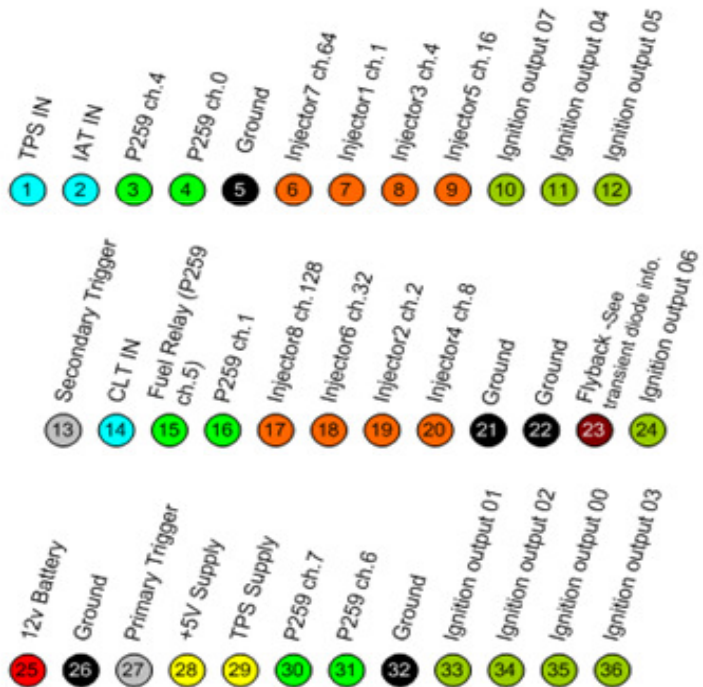


# VEMS V3.6 ECU Pin outs

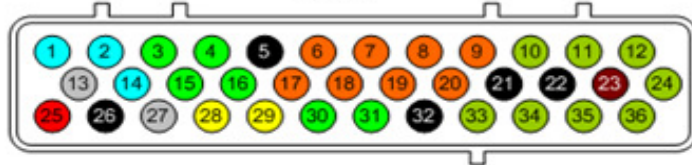
View from back of Econoseal plugs



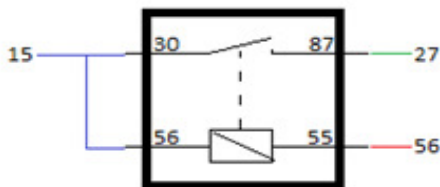
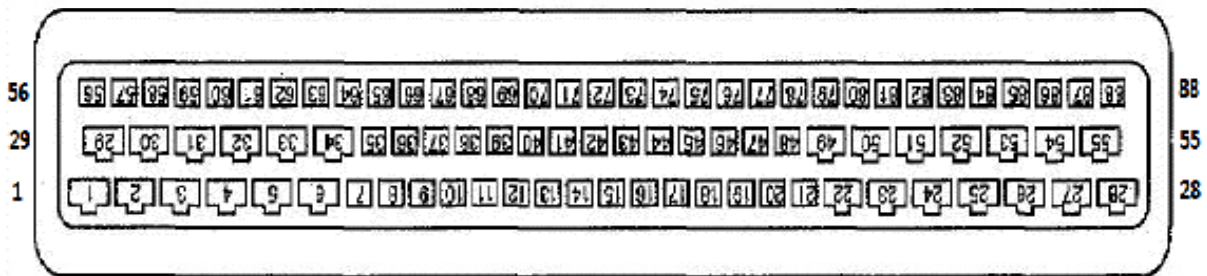
EC18



EC36



Motronic 88-pin Male Wire side



WBO2

WBO2 Pump -  
12v Battery (5A Fuse)

WBO2 Nerst signal

WBO2 Pump +  
WBO2 Heater  
Not Connected