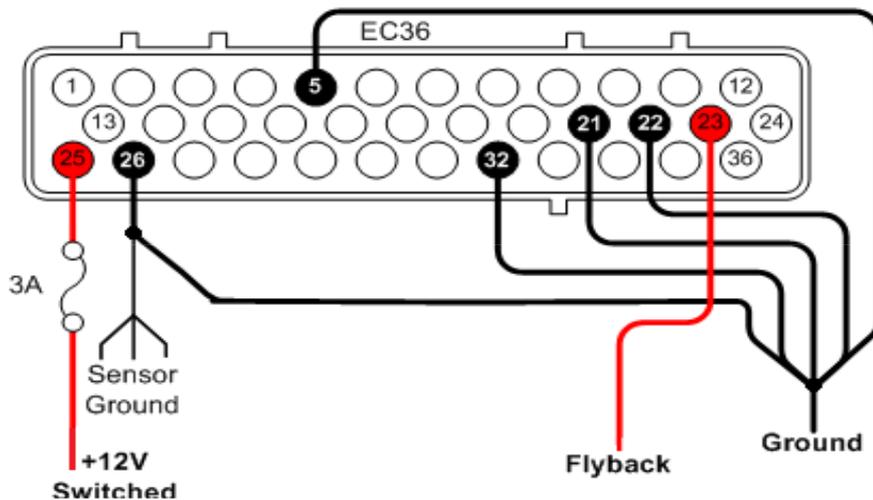


VEMS -> Motronic 88 pin BMW M50 Vanos

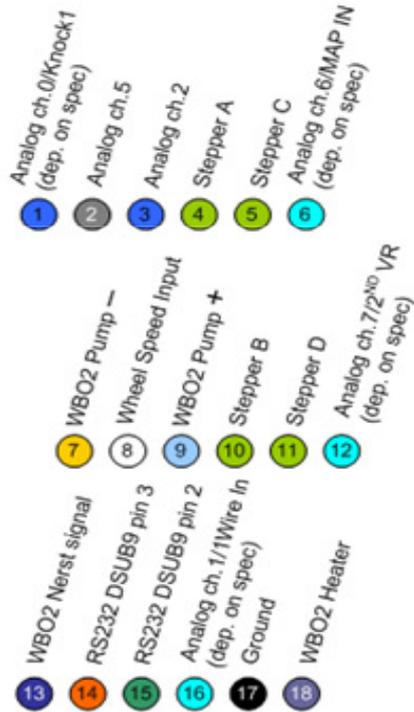
Adapter harness v1.03

| <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 |

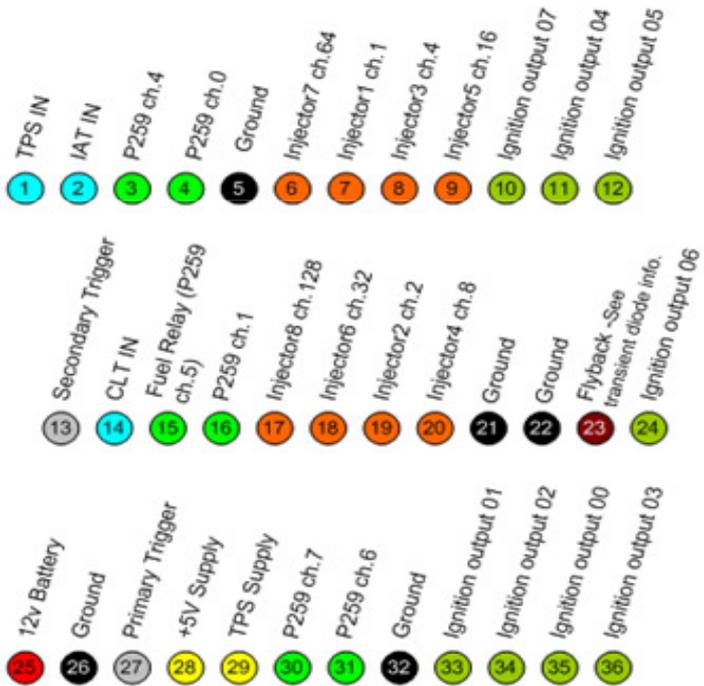
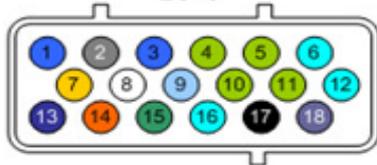


VEMS V3.6 ECU Pin outs

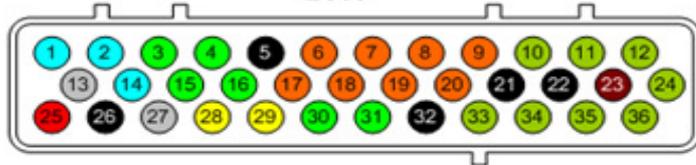
View from back of Econoseal plugs



EC18



EC36



Motronic 88-pin Male Wire side

