| | | J1 (Gray) | J2 (Brown) | J3 (Black) |
|---|---|---|---|---|
| 5v Vref 1 | VREF1 | | G2 | |
| 5v Vref 2 | VREF2 | | H2 | |
| 5v Vref 3 | VREF3 | | J2 | |
| 5v Vref 4 | VREF4 | | | F3 |
| 5v Vref 5 | VREF5 | | | F4 |
| Analog input 1 | LNR1 | | E2 | |
| Analog input 2 | LNR2 | | D3 | |
| Analog input 3 | LNR3 | | D4 | |
| Analog input 4 | LNR4 | D2 | | |
| Analog input 5 | LNR5 | D1 | | |
| Analog input 6 | LNR6 | C2 | | |
| Analog input 7 | LNR7 | | | A3 |
| Analog input 8 | LNR8 | | | E4 |
| Analog input Temp 1 | TEMP1 | | | C3 |
| Analog input Temp 2 | TEMP2 | | | A2 |
| Analog input Temp 3 | TEMP3 | | F2 | |
| Analog input Temp 4 | TEMP4 | | E3 | |
| Analog input Temp 5 | TEMP5 | | E4 | |
| CAN 1 High PC comms | **Twisted Pair** | | | J4 |
| CAN 1 Low PC comms | **Twisted Pair** | | | J3 |
| CAN 2 High | **Twisted Pair** | | | H4 |
| CAN 2 Low | **Twisted Pair** | | | H3 |
| CAN 3 High | CAN3H | | K4 | |
| CAN 3 Low | CAN3L | | K3 | |
| Crank Signal | EM4 | A1 | | |
| Digital input 1 | HE1 | F2 | | |
| Digital input 2 | HE2 | F1 | | |
| Digital input 3 | HE3 | E2 | | |
| Digital input 4 | HE4 | E1 | | |
| Digital input 5 | HE5 | | | G3 |
| Digital input 6 | HE6 | | | E3 |
| Digital input 7 | HE7 | | | G2 |
| Digital input 8 | HE8 | C1 | | |
| Digital input 9 | HE9 | | | C4 |
| Digital input 10 | HE10 | | | G4 |
| Digital input 11 | HE11 | | | B3 |
| Digital input 12 | HE12 | | | C2 |
| Digital input 13 | HE13 | | | D2 |
| Digital output 1 | OUT1 | | A1 | |
| Digital output 2 | OUT2 | | B1 | |
| Digital output 3 | OUT3 | | C1 | |
| Digital output 4 | OUT4 | | D1 | |
| Digital output 5 | OUT5 | | E1 | |
| Digital output 6 | OUT6 | | L4 | |
| Digital output 7 | OUT7 | | F1 | |

| | | J1 (Gray) | J2 (Brown) | J3 (Black) |
|---|---|---|---|---|
| Digital output 8 | OUT8 | | G1 | |
| Digital output 9 | OUT9 | | H1 | |
| Digital output 10 | OUT10 | | L3 | |
| Digital output 11 | OUT11 | | J1 | |
| Digital output 12 | OUT12 | | | A1 |
| Digital output 13 (Low current) | OUTL1 | | | H2 |
| Digital output 14 (Low current) | OUTL2 | | | D1 |
| Digital output 15 (Low current) | OUTL3 | | | C1 |
| Digital output 16 (Low current) | OUTL4 | | | B1 |
| Digital output 19 (Low current) | RL1 | | | G1 |
| Digital output 20 (Low current) | RL2 | | | F2 |
| Digital output 21 (Low current) | RL3 | | | F1 |
| Digital output 22 (Low current) | RL4 | | | E2 |
| Drive by wire 1 - | DBW 1- | | M1 | |
| Drive by wire 1 + | DBW 1+ | | M2 | |
| Drive by wire 2 - | DBW 2- | | M3 | |
| Drive by wire 2 + | DBW 2+ | | M4 | |
| Ethernet RX- | **Min CAT5** | | | J1 |
| Ethernet RX+ | **Min CAT5** | | | J2 |
| Ethernet TX- | **Min CAT5** | | | K1 |
| Ethernet TX+ | **Min CAT5** | | | K2 |
| GND Analog | AGND | | | K3 |
| GND Analog | AGND | | | K4 |
| GND Analog | AGND | | B2 | |
| GND Analog | AGND | | C2 | |
| GND Analog | AGND | | D2 | |
| GND Analog | AGND | B1 | | |
| GND Digital | DGND | | | D3 |
| GND Digital | DGND | | | D4 |
| GND Digital | DGND | | | H1 |
| GND Digital | DGND | B2 | | |
| GND Digital | DGND | B3 | | |
| GND Digital | DGND | B4 | | |
| GND Power | GND | | | L1 |
| GND Power | GND | | | L2 |
| GND Power | GND | | | L3 |
| GND Power | GND | | | L4 |
| H-bridge driver 20A 1 | HB1 | | L1 | |
| H-bridge driver 20A 2 | HB2 | | L2 | |
| Ignition 1 / Coil 1 | IGN1 | H4 | | |
| Ignition 2 / Coil 2 | IGN2 | H3 | | |
| Ignition 3 / Coil 3 | IGN3 | H2 | | |
| Ignition 4 / Coil 4 | IGN4 | H1 | | |
| Ignition 5 / Coil 5 | IGN5 | G4 | | |
| Ignition 6 / Coil 6 | IGN6 | G3 | | |

| | | J1 (Gray) | J2 (Brown) | J3 (Black) |
|---|---|---|---|---|
| Ignition 7 / Coil 7 | IGN7 | G2 | | |
| Ignition 8 / Coil 8 | IGN8 | G1 | | |
| Ignition Switch +12v | IGN SW | | | B2 |
| Injector 1 | INJ1 | F4 | | |
| Injector 2 | INJ2 | F3 | | |
| Injector 3 | INJ3 | D4 | | |
| Injector 4 | INJ4 | D3 | | |
| Injector 5 | INJ5 | E4 | | |
| Injector 6 | INJ6 | E3 | | |
| Injector 7 | INJ7 | C4 | | |
| Injector 8 | INJ8 | C3 | | |
| Knock Gnd | GND KNK | | A2 | |
| Knock Sensor 1 | KNK1 | | A3 | |
| Knock Sensor 2 | KNK2 | | A4 | |
| Lambda 1 Heater | HT-LMB1 | | K1 | |
| Lambda 1 IP+ | IP+1 | | J4 | |
| Lambda 1 RComp | RComp1 | | F3 | |
| Lambda 1 VS / IP | VS/IP1 | | F4 | |
| Lambda 1 VS+ | VS+1 | | G3 | |
| Lambda 2 Heater | HT-LMB2 | | K2 | |
| Lambda 2 IP+ | IP+2 | | H3 | |
| Lambda 2 RComp | RComp2 | | J3 | |
| Lambda 2 VS / IP | VS/IP2 | | G4 | |
| Lambda 2 VS+ | VS+2 | | H4 | |
| Main - RL (Relay Control) | MAIN-RL | | | E1 |
| Throttle Pedal Signal 1 | PPSA | | | B4 |
| Throttle Pedal Signal 2 | PPSB | | | A4 |
| TPS 1 Primary trace | TPS1A | | C3 | |
| TPS 1 Secondary trace | TPS1B | | C4 | |
| TPS 2 Primary trace | TPS2A | | B3 | |
| TPS 2 Secondary trace | TPS2B | | B4 | |
| Trigger input VR/Hall | EM3 | A2 | | |
| Trigger input VR/Hall | EM2 | A3 | | |
| Trigger input VR/Hall | EM1 | A4 | | |
| VBatt IN | VBATT | | | M1 |
| VBatt IN | VBATT | | | M2 |
| VBatt IN | VBATT | | | M3 |
| VBatt IN | VBATT | | | M4 |