



**A1 - BAT\_POS12V (R)**  
**A2 - BAT\_NEG0V (BR)**  
**A3 - SEN\_0V\_NISO (GY)**  
**A4 - SEN\_5V\_NISO (Y)**  
**A5 - MFET\_LS (BL)**  
**A6 - MFET\_HS (G)**  
**A7 - PFET\_OUT1 (BL)**  
**A8 - PFET\_SUP1 (G)**  
**A9 - PFET\_OUT2 (BL)**  
**A10 - MFET\_SUP2 (G)**  
**A11 - BAT\_POS12V (R)**  
**A12 - BAT\_NEG0V (BR)**  
**A13 - SEN\_0V\_NISO (GY)**  
**A14 - SEN\_5V\_NISO (Y)**  
**A15 - SERIAL\_RX (BL/BK)**  
**A16 - SERIAL\_TX (GY/BK)**  
**A17 - SEN\_3V3\_ISO (LG)**  
**A18 - SEN\_3V3\_ISO (LG)**  
**A19 - SEN\_0V\_ISO (PR)**  
**A20 - SEN\_0V\_ISO (PR)**

**B1 - PFET\_OUT3 (BL)**  
**B2 - PFET\_SUP3 (G)**  
**B3 - PFET\_OUT4 (BL)**  
**B4 - PFET\_SUP4 (G)**  
**B5 - CAN0\_HI (BL/BR)**  
**B6 - CAN0\_LO (GY/R)**  
**B7 - CAN1\_HI (BL/BR)**  
**B8 - CAN1\_LO (GY/R)**  
**B9 - CAN2\_HI (BL/BR)**  
**B10 - CAN2\_LO (GY/R)**  
**B11 - DIGI4 (W/GY)**  
**B12 - DIGI3 (BL/GY)**  
**B13 - DIGI2 (BR/GY)**  
**B14 - DIGI1 (G/GY)**  
**B15 - AVI1\_ISO (W/17)**  
**B16 - AVI2\_ISO (W/18)**  
**B17 - AVI3\_NISO (W/19)**  
**B18 - AVI4\_NISO (W/20)**  
**B19 - AVI5\_NISO (W/21)**  
**B20 - AVI6\_NISO (W/22)**

#### Color Code:

**(R) - RED**  
**(BR) - BROWN**  
**(GY) - GRAY**  
**(Y) - YELLOW**  
**(BL) - BLUE**  
**(G) - GREEN**  
**(BL/BK) - BLUE/BLACK**  
**(GY/BK) - GRAY/BLACK**  
**(BL/BR) - BLUE/BROWN**  
**(GY/R) - GRAY/RED**  
**(W/GY) - WHITE/GRAY**  
**(BL/GY) - BLUE/GRAY**  
**(BR/GY) - BROWN/GRAY**  
**(G/GY) - GREEN/GRAY**  
**(W/19) - WHITE 17**  
**(W/N) - WHITE N**  
**(W/22) - WHITE 22**

## ECUVEH Pinout

Mating Connector A: Molex 20 position keying A #0334722006

Pin Number	Designation	FullName	Function
A1	BAT_POS12V	BATTERY POSITIVE 12V	Battery positive power supply for the ECU
A2	BAT_NEG0V	BATTERY NEGATIVE 0V	Battery negative power supply for the ECU
A3	SEN_0V_NISO	SENSOR 0V NON-ISOLATED	Sensors negative 0V supply non-isolated
A4	SEN_5V_NISO	SENSOR 5V NON-ISOLATED	Sensors positive 5V supply non-isolated
A5	MFET_LS	MOSFET LOW-SIDE	12V mosfet low-side
A6	MFET_HS	MOSFET HIGH-SIDE	12V mosfet high-side
A7	PFET_OUT1	POWER MOSFET OUTPUT 1	Power mosfet output 1
A8	PFET_SUP1	POWER MOSFET SUPPLY 1	Power mosfet supply voltage 1
A9	PFET_OUT2	POWER MOSFET OUTPUT 2	Power mosfet output 2
A10	MFET_SUP2	POWER MOSFET SUPPLY 2	Power mosfet supply voltage 2
A11	BAT_POS12V	BATTERY POSITIVE 12V	Battery positive power supply for the ECU
A12	BAT_NEG0V	BATTERY NEGATIVE 0V	Battery negative power supply for the ECU
A13	SEN_0V_NISO	SENSOR 0V NON-ISOLATED	Sensors negative 0V supply non-isolated
A14	SEN_5V_NISO	SENSOR 5V NON-ISOLATED	Sensors positive 5V supply non-isolated
A15	SERIAL_RX	SERIAL COMMUNICATION RX	Serial communication receiver
A16	SERIAL_TX	SERIAL COMMUNICATION TX	Serial communication transmitter
A17	SEN_3V3_ISO	SENSOR 3.3V ISOLATED	Sensors positive 3.3V supply isolated
A18	SEN_3V3_ISO	SENSOR 3.3V ISOLATED	Sensors positive 3.3V supply isolated
A19	SEN_0V_ISO	SENSOR 0V ISOLATED	Sensors negative 0V supply isolated
A20	SEN_0V_ISO	SENSOR 0V ISOLATED	Sensors negative 0V supply isolated

## ECUVEH Pinout

Mating Connector B: Molex 20 position keying B #0334722007

Pin Number	Designation	FullName	Function
B1	PFET_OUT3	POWER MOSFET OUTPUT 3	Power mosfet output 3
B2	PFET_SUP3	POWER MOSFET SUPPLY 3	Power mosfet supply voltage 3
B3	PFET_OUT4	POWER MOSFET OUTPUT 4	Power mosfet output 4
B4	PFET_SUP4	POWER MOSFET SUPPLY 4	Power mosfet supply voltage 4
B5	CAN0_HI	CAN BUS 0 HIGH	Can bus channel 0 high
B6	CAN0_LO	CAN BUS 0 LOW	Can bus channel 0 low
B7	CAN1_HI	CAN BUS 1 HIGH	Can bus channel 1 high
B8	CAN1_LO	CAN BUS 1 LOW	Can bus channel 1 low
B9	CAN2_HI	CAN BUS 2 HIGH	Can bus channel 2 high
B10	CAN2_LO	CAN BUS 2 LOW	Can bus channel 2 low
B11	DIGI4	DIGITAL INPUT 4	Digital input 4 with internal pull-up
B12	DIGI3	DIGITAL INPUT 3	Digital input 3 with internal pull-up
B13	DIGI2	DIGITAL INPUT 2	Digital input 2 with internal pull-up
B14	DIGI1	DIGITAL INPUT 1	Digital input 1 with internal pull-up
B15	AVI1_ISO	ANALOG VOLTAGE INPUT 1 ISOLATED	Analog voltage input 1 isolated
B16	AVI2_ISO	ANALOG VOLTAGE INPUT 1 ISOLATED	Analog voltage input 2 isolated
B17	AVI3_NISO	ANALOG VOLTAGE INPUT 3 NON ISOLATED	Analog voltage input 3 non-isolated
B18	AVI4_NISO	ANALOG VOLTAGE INPUT 4 NON ISOLATED	Analog voltage input 4 non-isolated
B19	AVI5_NISO	ANALOG VOLTAGE INPUT 5 NON ISOLATED	Analog voltage input 5 non-isolated
B20	AVI6_NISO	ANALOG VOLTAGE INPUT 6 NON ISOLATED	Analog voltage input 6 non-isolated