# Fan Controller 1

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| 12V | 12V to fan 1 | 1 |
| PWM\_1 | PWM signal to fan 1 | 2 |
| TACH\_1\_IN | Tach signal from fan 1 | 3 |
| PWR\_1 | Ground switch for fan 1 | 4 |
| 12V | 12V to fan 2 | 5 |
| PWM\_2 | PWM signal to fan 2 | 6 |
| TACH\_2\_IN | Tach signal from fan 2 | 7 |
| PWR\_2 | Ground switch for fan 2 | 8 |

# Fan Controller 2

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| 12V | 12 to fan 3 | 1 |
| PWM\_3 | PWM signal to fan 3 | 2 |
| TACH\_3\_IN | Tach signal from fan 3 | 3 |
| PWR\_3 | Ground switch for fan 3 | 4 |
| GND | GND for thermistor 1 | 5 |
| THERM1 | Signal from thermistor 1 | 6 |
| GND | GND for thermistor 2 | 7 |
| THERM2 | Signal from thermistor 2 | 8 |

# Relay Board 1

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| START\_R |  | 1 |
| MOTOR\_R |  | 2 |
| CAP\_R |  | 3 |
| CHARGE\_R |  | 4 |
| AUX12 |  | 5 |
| FC12 |  | 6 |
| GND |  | 7 |
| GND |  | 8 |

# Relay Board 2

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| CAPCURR |  | 1 |
| FCCURR |  | 2 |
| CAPVOLT |  | 3 |
| FCVOLT |  | 4 |
| 5V |  | 5 |
| FCC\_R |  | 6 |
| GND |  | 7 |
| GND |  | 8 |

# Hydrogen Board

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| H2\_OK | E-Stop signal | 1 |
| EXTRA\_SIG | We might need this later? | 2 |
|  |  | 3 |
|  |  | 4 |
| GND |  | 5 |
| AUX 12V | Needed for remote sensor | 6 |
|  |  | 7 |
| AUX 5V |  | 8 |

# CAN BUS

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| CANH | High of differential Pair | 1 |
| CANL | Low of differential pair | 2 |
| GND |  | 3 |
|  |  | 4 |
|  |  | 5 |
| GND |  | 6 |
| GND |  | 7 |
| 5V | Aux 5V | 8 |

# FCC TO CVM BOARD

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| FC5 |  | 1 |
| TX12 |  | 2 |
| RX12 |  | 3 |
| GND |  | 4 |
| SIG1 |  | 5 |
| SIG2 |  | 6 |
| SIG3 |  | 7 |
| SIG4 |  | 8 |

# CVM BOARD TO FCC

|  |  |  |
| --- | --- | --- |
| Name | Description |  |
| FC5 |  |  |
| RX12 |  |  |
| TX12 |  |  |
| GND |  |  |
| SIG1 |  |  |
| SIG2 |  |  |
| SIG3 |  |  |
| SIG4 |  |  |

# AUX POWER BOARD

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| AUX 12 |  | 1 |
| AUX 12 |  | 2 |
| AUX 5 |  | 3 |
| AUX 5 |  | 4 |
| GND |  | 5 |
| GND |  | 6 |

# FC POWER BOARD

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| FC 12 |  | 1 |
| FC 12 |  | 2 |
| FC 5 |  | 3 |
| FC 5 |  | 4 |
| GND |  | 5 |
| GND |  | 6 |

# Pressure and??

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| FC12 |  | 1 |
| GND |  | 2 |
| FCPRES |  | 3 |
|  |  | 4 |
|  |  | 5 |
|  |  | 6 |
|  |  | 7 |
|  |  | 8 |

# FCC TO MOTOR

|  |  |  |
| --- | --- | --- |
| Name | Description | Number |
| TX12 |  | 1 |
| RX12 |  | 2 |
|  |  | 3 |
|  |  | 4 |
|  |  | 5 |
| M\_SIG\_1 |  | 6 |
| M\_SIG\_2 |  | 7 |
| GND |  | 8 |