Loom Documentation

Shutdown Circuit started in dash

Each line in diagram represents one fully connected wiring loom inclusive of branches

Key and pin so that where appropriate looms can be plugged in either way and work. Exception being controller connections

Hvd placement for plugs very tight

12 V Battery where? Or soft start DC DC

4 4/6 pin in DASH for sensor connectivity

Toblerone loom through firewall?

Dedicated cooling power lines that branch off of loom B?

20 gauge for power and shutdown

Signal lines 24 to 28

Key:

POWER (consider gauge)

SHUTDOWN

DIGITAL

ANALOG

**A HVD-ACC**

12 connections

Shutdown line following HV for HVIi rather than in LV loom

|  |  |
| --- | --- |
| **Connections** | **Gauge min** |
| 12 V (in, powering car) | 20 |
| 12 V (out, gated) | 20 |
| Cool\_PWR\_1 | 20 |
| Cool\_PWR\_2 | 20 |
| Cool\_GND\_1 | 20 |
| Cool\_GND\_2 | 20 |
| enable |  |
| GND | 20 |
| SHUTDOWN (provision) | 20 |
| BMS\_OK |  |
| PRECHARGE\_OK |  |
| IMD\_OK |  |
| CAN\_HIGH |  |
| CAN\_LOW |  |
| BSPD\_CURRENT |  |
| BSPD\_COMMON\* |  |

\*Provision for differential current sensor reading

**B DASH-HVD**

8 connections

|  |  |
| --- | --- |
| **Connections** | **Pin** |
| 12 V |  |
| GND |  |
| start |  |
| SHUTDOWN |  |
| BSPD\_OK |  |
| CAN\_HIGH |  |
| CAN\_LOW |  |
| BSPD\_CURRENT |  |
| BSPD\_COMMON |  |

**C HVD-CONTROLLERS**

10 x 2

**D HVD-Toblerone**

4 connections

|  |
| --- |
| TSAL+ |
| TSAL- |
| SHUTDOWN+ |
| SHUTDOWN- |

**E DASH-Pedalbox**

16 connections

|  |
| --- |
| TPS1\_SIG |
| TPS1\_PWR |
| TPS1\_GND |
| TPS2\_SIG |
| TPS2\_PWR |
| TPS2\_GND |
| BPS1\_SIG |
| BPS1\_PWR |
| BPS1\_GND |
| BPS2\_SIG |
| BPS2\_PWR |
| BPS2\_GND |
| BRAKE\_SWITCH+ |
| BRAKE\_SWITCH- |
| SHUTDOWN+ |
| SHUTDOWN- |
| start |
| GND |

**F DASH-Brakelight**

6 connections

|  |
| --- |
| BRAKE\_1 |
| BRAKE\_2 |
| BRAKE\_3 |
| GND |
| GND |
| GND |

**G DASH-SteeringWheel**

4 connections

|  |
| --- |
| 5 V |
| GND |
| CAN\_HIGH |
| CAN\_LOW |