BSPD Read Me

# Operation

Comparators A and B compare the voltage from a brake fluid pressure sensors and a current sensor respectively, to two reference voltages. When the sensor voltage exceeds the reference voltage, the comparator outputs high. And gate A outputs high when both comparators A and B are high, relating to both power being delivered to the motors and the brakes being applied simultaneously.

Comparator C compares the current output of And gate A and the voltage across a capacitor, outputting high if the fault has been persistent for 500ms. This activates the relay opening the emergency shutdown circuit

# Possible Improvements

Include an automatic reset of the relay if fault persistently clear for 10 seconds

# List of components

See file BSPD\_partlist