

Pre-charge/Discharge (CHARGE) Board

Function:

CHARGE board implements pre-charging and discharging of high energy motor controller capacitors through operating distinct pre-charging/discharging relays. Pre-charging of motor controllers through a suitable bypass resistor avoids potential damage to motor controller IGBTs and AIR contacts and discharging allows high voltages to be safely dissipated when vehicle battery is not in use. CHARGE board detects failure of pre-charging by monitoring for 80% voltage threshold of HV post-AIR lines.

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