

**Row Labels**

**Navistar**

**Deny**

Bulk Current Injection  
Exposure to Chemicals and Oils

**Not in Product Spec**

Altitude Non-Operating  
Altitude Operating  
Dust and Sand  
Fungus  
Gravel Bombardment  
Immersion Test  
Low Side Outputs Bias by Ignition or Accessory  
Pressure Washing  
Salt Spray Test  
SINAD Test  
Steam Cleaning  
Transit Drop Test

**Accept with Deviations**

Electrostatic Discharge (Unpowered)  
Frost Test  
Handling Drop Test  
Humidity Test Long  
Humidity Test Short  
Operational Shock  
Operational Temperature  
Operational Voltage Ranges  
Random Vibration Test  
Short Circuit  
Storage Temperature Test  
Swept Sine Vibration Test  
Thermal Cycle Test  
Thermal Shock Test Long  
Thermal Shock Test Short  
Three Temperature Parametric Test  
Radiated Emissions (Vehicle)

**Accept**

Electrostatic Discharge (Powered)  
Radiated Emissions  
Radiated Immunity  
Voltage Regulator Failure  
Electrostatic Discharge (Vehicle)

**N/A**

Installation Harness Drop Test

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Capacitive Coupling Clamp  
Combined Environmental Testing

**Defer to System**

Chattering Relay

- Cold Cranking
- Conducted Emissions
- Inductive Switching - Pulse 1
- Inductive Switching - Pulse 2a
- Inductive Switching - Pulse 2b
- Intermittent Power Specification
- Jump Starting
- Load dump - Pulse 5a
- Open Circuit
- Operation Without Batteries
- Radiated Susceptibility - Off Vehicle Source
- Reverse Polarity
- Switching Spikes - Pulse 3a
- Switching Spikes - Pulse 3b

#### **PACCAR**

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##### **Not in Product Spec**

- Approved Paints List
- Exterior Paint for Aluminum and Ferrous Substrates, Full or Intermittent UV Exposure
- Humidity Testing for Electrical and Electronic Components, excluding the Damp-Heat Test
- Prime Paint For Aluminum and Ferrous Substrates
- Protection of Electrical and Electronic Components against Dust
- Protection of Electrical and Electronic Equipment Against Water (Including Steam Cleaning/High Pressure Cleaning
- Requirements for Electrical Connectors
- Resistance to Automotive Fluids
- Rubber, Vulcanized or Thermoplastic - Resistance to Ozone Cracking: Static Strain Testing
- Test Methods and Approval Process for Paints
- Visual Inspection
- Ultraviolet-Light-Exposure Testing
- Gravel Bombardment Test
- Voltage Test Requirements
- Vibration Requirements and Test Methods
- Temperature Cyclic Test
- High-Temperature Test
- Accelerated Temperature Aging Test
- ESD Indirect (Powered Up)
- ESD Handling (Unpowered)
- High Temperature Test
- Low-Temperature Test
- Thermal Shock by Splashing
- Thermal Shock by Venting
- Flammability Test

##### **Accept with Deviations**

- ESD Direct (Powered Up)
- Free-Fall Drop Test

##### **N/A**

- General Test Conditions for Electrical and Electronic Components
- Product Identification and Traceability
- QR Codes on Parts
- Special Characteristics Process Requirements (For Drawings)

Truck-specific Nomenclature and Terminology for Electrical Engineering  
(blank)

Test Reporting Requirements

Environmental Requirements and Test Methods

Road Vehicles Electrical Disturbance by Conduction and Coupling

Assembly Operational Supplier

Operational - Assembly Supplier

Operational - Manufacturing PACCAR

Operational - Warranty PACCAR

Operational - Development PACCAR

Manufacturing - Operational PACCAR

Warranty - Operational Supplier and PACCAAR

Warranty - End Of Life Supplier & PACCAR

Development - Operational PACCAR

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Salt-Fog Test for Electrical and Electronic Components

#### **Defer to System**

Electrical Transients - Immunity to Pulse 5a

Electrical Transients - Immunity to Pulse 1b

Electrical Transients - Immunity to Pulse 3a

Electrical Transients - Immunity to Pulse 3b

Electrical Transients - Chattering Relay

Electrical Transients - Conducted Immunity

Electromagnetic-Emissions

Electromagnetic-Conducted Emissions

Electromagnetic Radiated Immunity (Bulk Current)

Electromagnetic Radiated Immunity (ALSE)

Power Interface Tests

#### **Volvo**

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##### **Not in Product Spec**

ESD Handling

ESD Powered up, indirect

##### **Accept with Deviations**

ESD Powered up, direct

Radiated Emissions - ALSE

Radiated Immunity - ALSE

Radiated Immunity - Low-frequency magnetic field

##### **Accept**

Bulk Current Injection

##### **Defer to System**

Conducted Emissions

Conducted RF Emissions (CE Voltage)

Immunity to High-voltage Supply

Immunity to Micro Power Cuts

Immunity to Pulse 1 (Supply lines)

Immunity to Pulse 2a (Signal lines)

Immunity to Pulse 2a (Supply lines)

Immunity to Pulse 2b (Supply lines)

Immunity to Pulse 3a and 3b (Signal lines)

Immunity to Pulse 3a and 3b (Supply lines)  
Immunity to Pulse 4 (Supply lines)  
Immunity to Pulse 5a/c (Supply lines)  
Immunity to Voltage Ripples  
On-board Transmitters (OBT)  
Radiated Emissions - magnetic field  
Stripline (STR)

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