

Parker Hannifin Corporation



ENGINEERING YOUR SUCCESS.

April 12, 2010

Rail



Rail Applications

Pantograph Systems



Cab Door Control



External Door Operation



Body Tilting Systems



Passenger Step Control



Brake Control



Traction Control

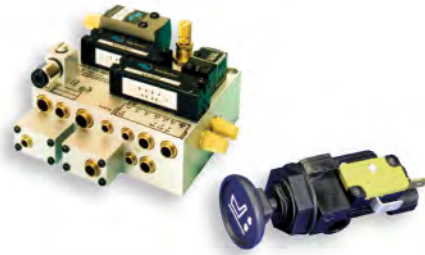


Rail Applications

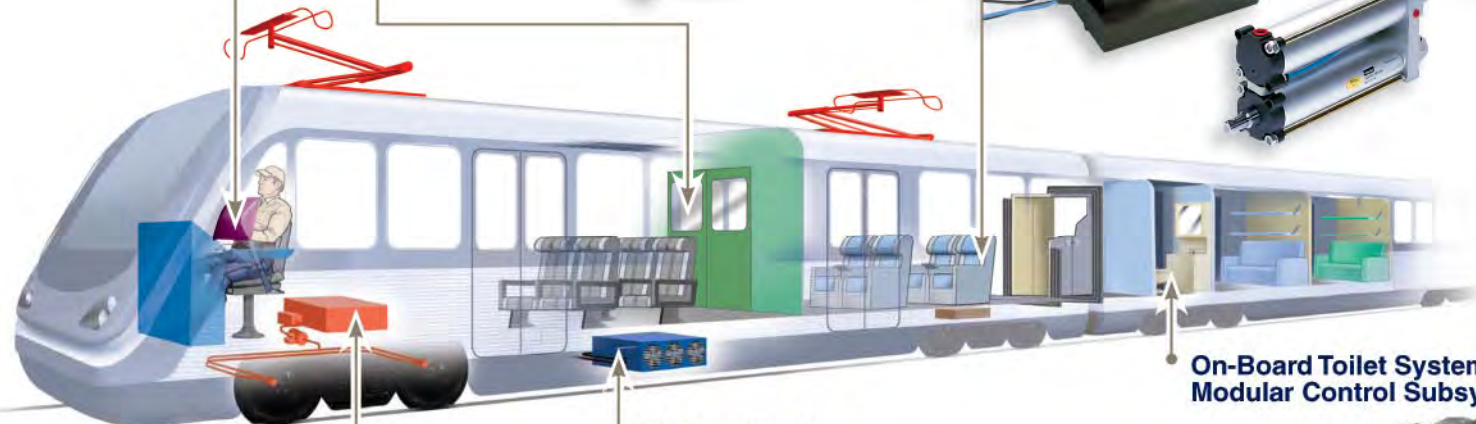
Retractable Mirrors



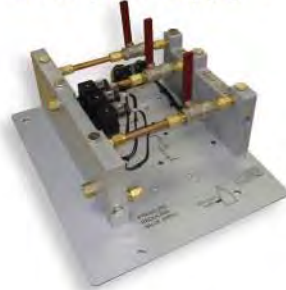
Automatic Interconnecting and Internal Doors



Seat Controls



Auxiliary Air Supply



Air-Conditioning



On-Board Toilet Systems
Modular Control Subsystems

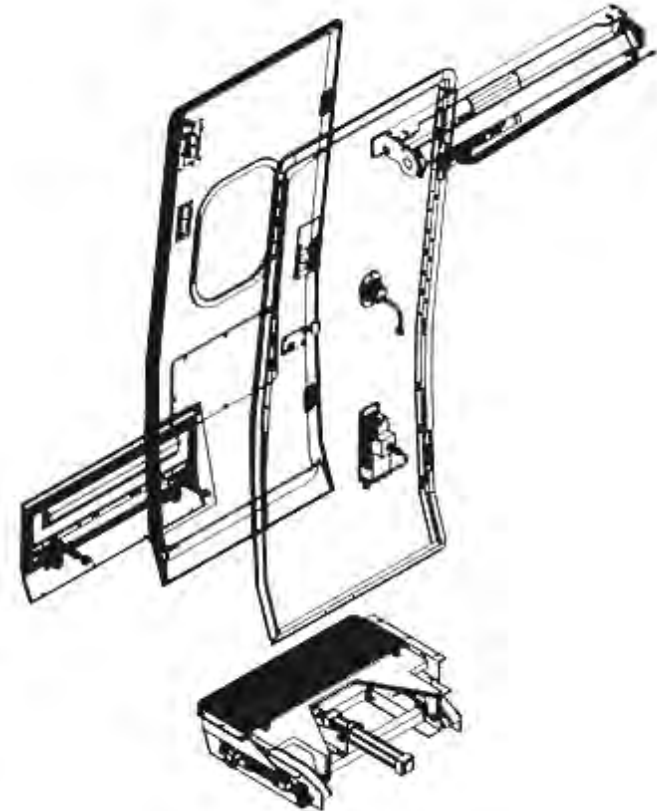


Rail - Doors

- TGV internal door control systems
- Specially designed door actuators.
 - *Extended cushion for smooth closing*
 - *Easy accessible cushion adjustment*
 - *Pneumatic or Electromechanical*
- Modular Door control systems
 - *space saving*
 - *reducing air leak paths.*
- *Obstacle Detection provided*
 - *providing passenger safety*
- Supplied fully assembled and tested
 - *simplified installation*



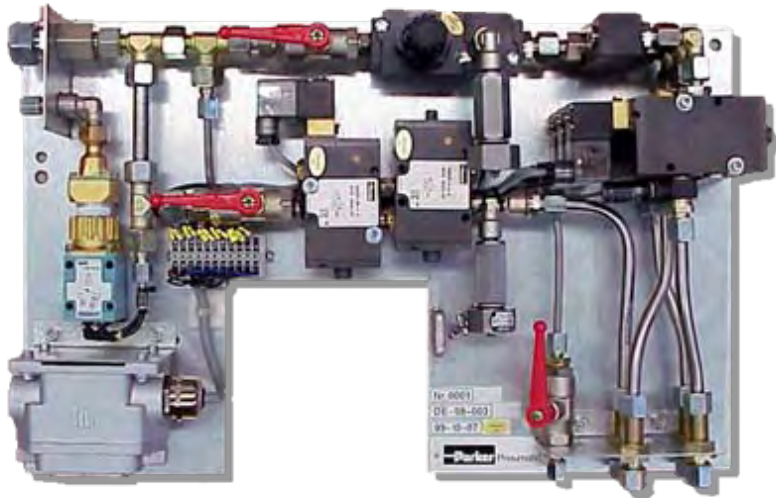
Rail - External Door Steps



Rail Vehicle Coupling

Rail Vehicle coupling systems

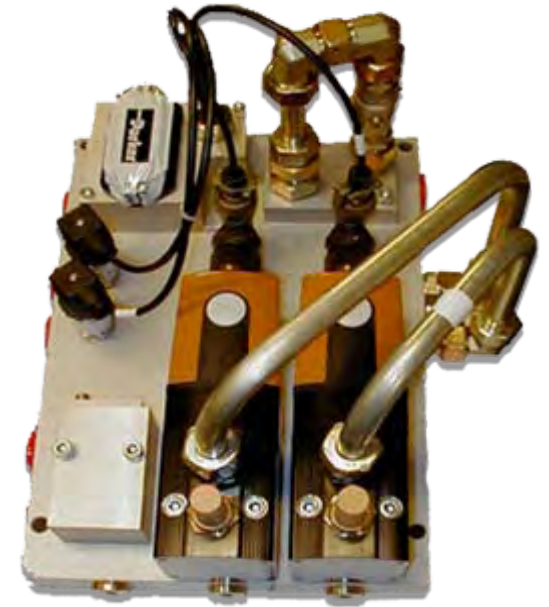
- Actuation
- Modular control systems



Rail - Active Lateral Suspension

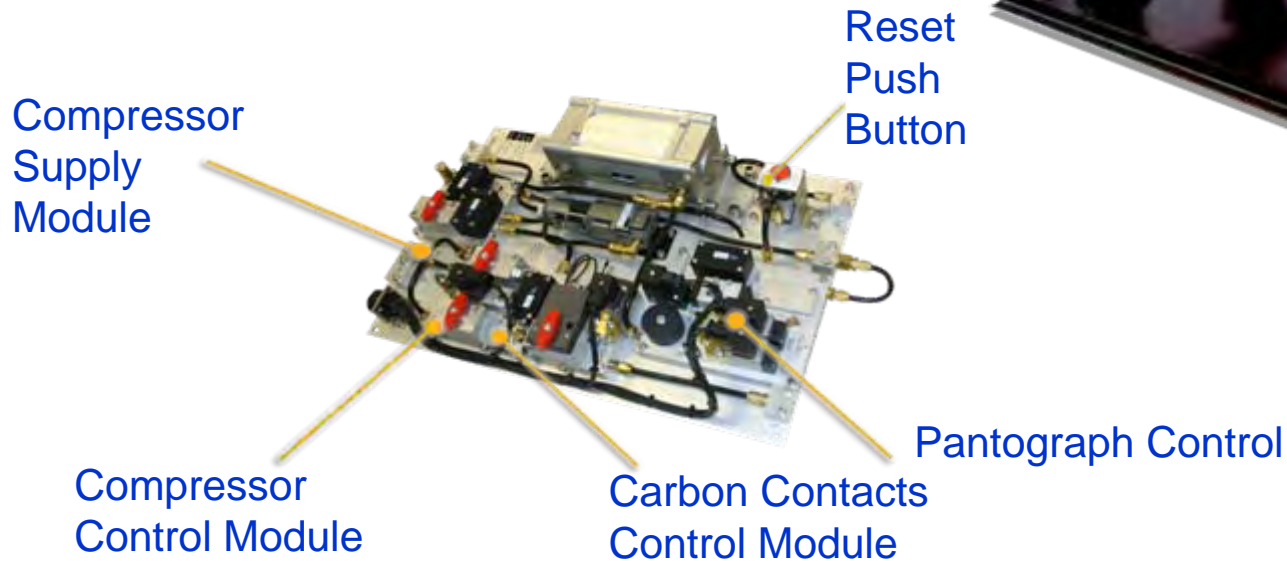


- Electro-pneumatic Pressure Regulator



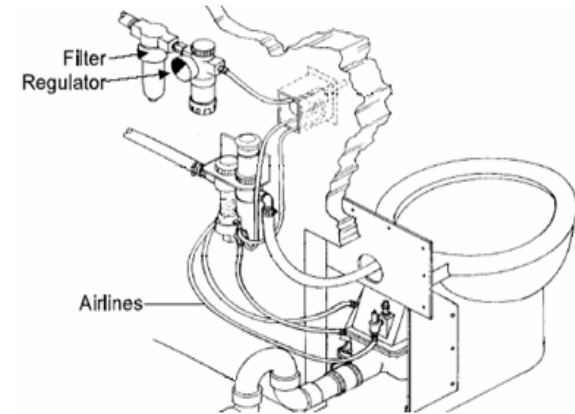
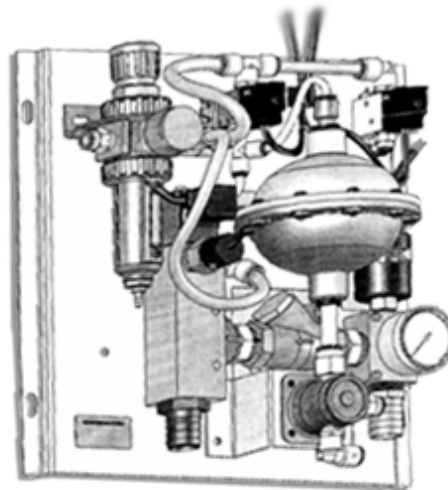
Rail – Pantograph Control Systems

- Pneumatic and Electromechanical Actuation
- Pre-assembled Control system



Rail – Sanitation Systems

- Vacuum
- Controls
- Air Preparation
- Pre-assembled control systems



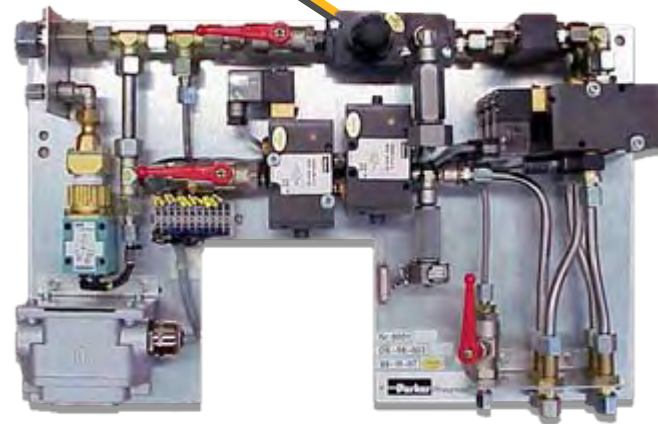
Ancillary Control Systems



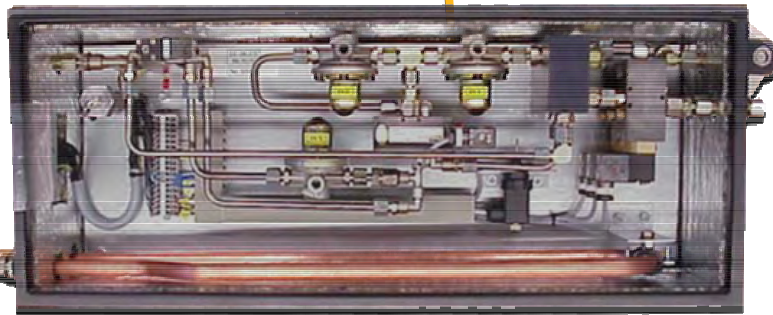
Horn Control Panel



Mirror Controls
Wiper Controls



Sanding and Coupling control Panel



Engine retarder control cabinet

Inverters for Light Rail Vehicles (LRVs)

- Traction Control

STAINLESS STEEL ENCLOSURES

rooftop mounting – water tight





Thank You

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