

# Smart Suspension Brochure

Bulletin 0070-B14

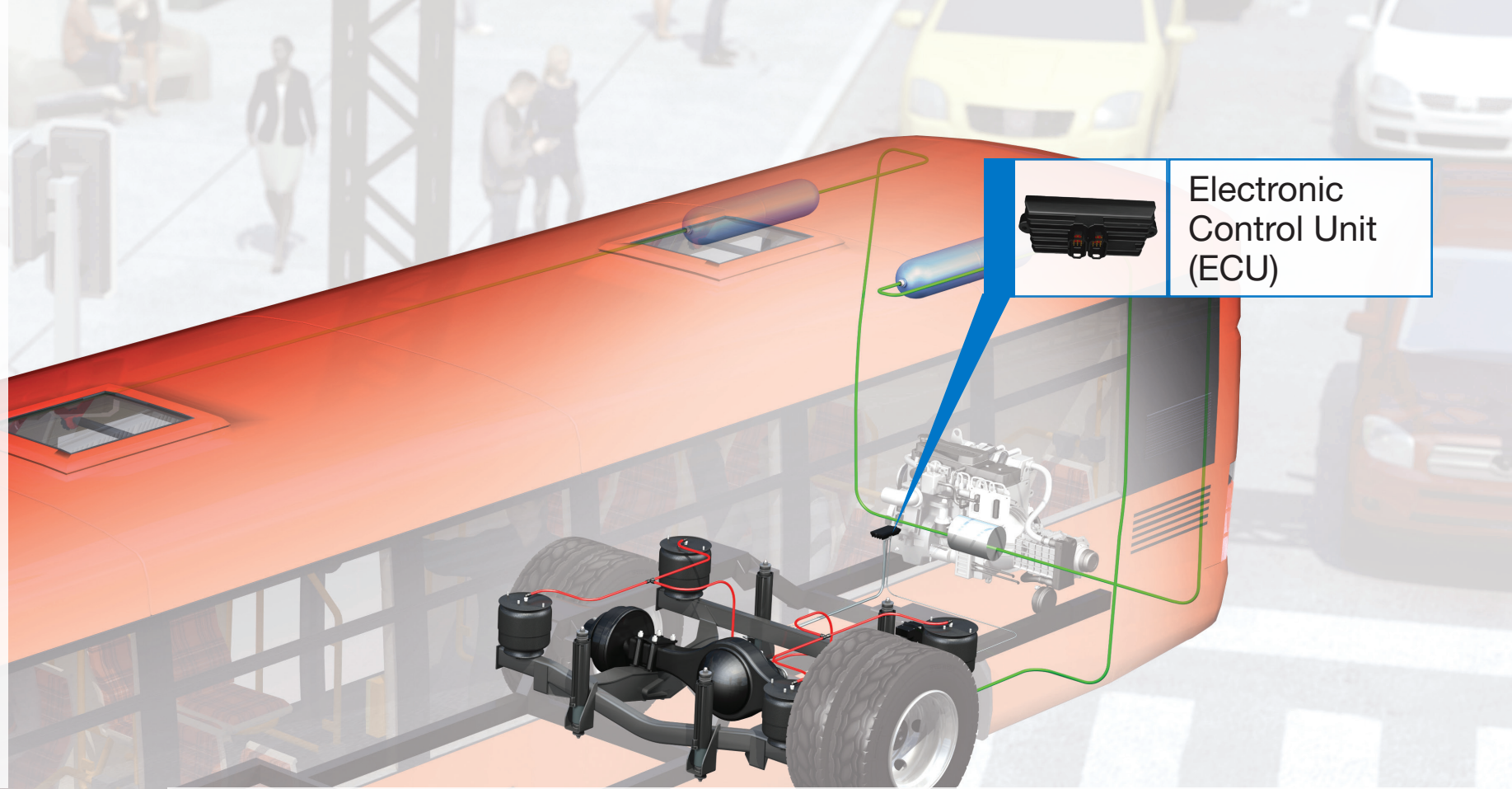


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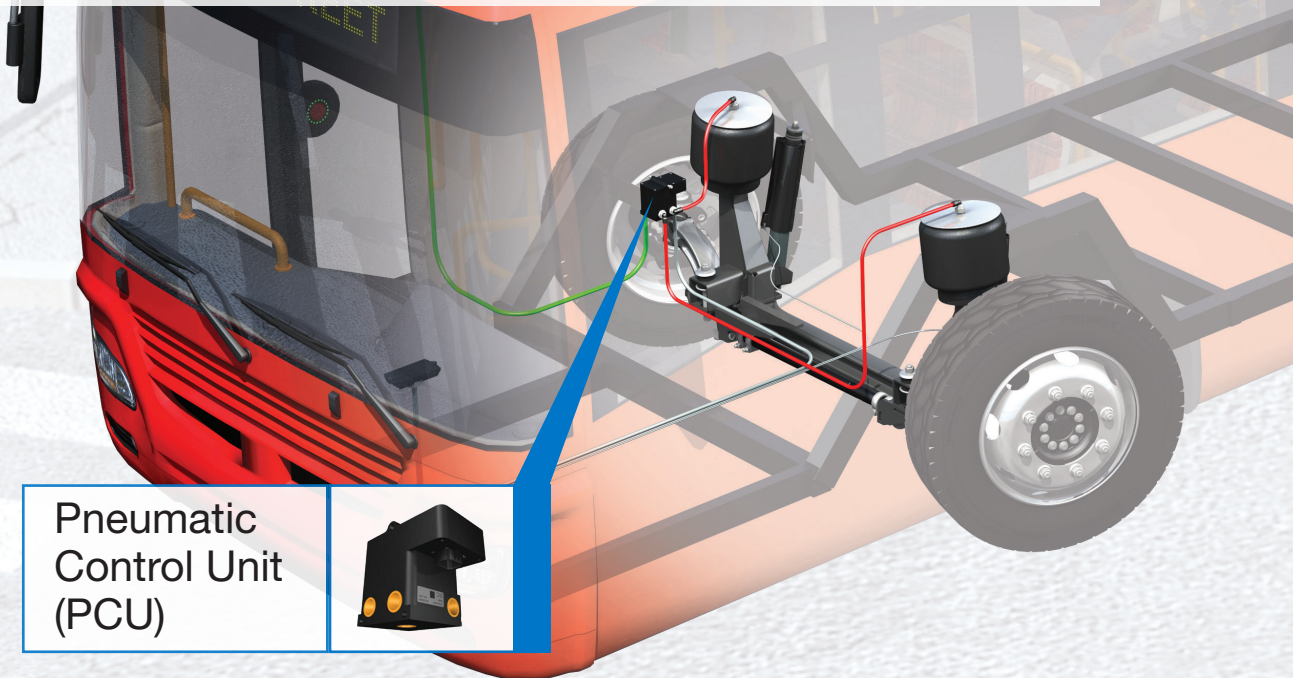
# What is Parker Smart Suspension?

Parker Smart Suspension is an electronically controlled suspension system that is designed to more efficiently manage vehicle heights, improve ride experience, and increase safety and productivity. Ideally suited to Bus and Coach applications, Smart Suspension:

- ✓ **Kneels**
  - Software configurable kneeling options (ADA compliant)
- ✓ **Alerts**
  - Intelligently adjusts to changing suspension issues
- ✓ **Rides Smoother and Safer**
  - Internal monitoring and adjustments based on vehicle loading and road conditions



Electronic Control Unit (ECU)



Pneumatic Control Unit (PCU)



## Overall Value

Parker Smart Suspension works in conjunction with the bus suspension air springs, air spring height sensors and wheelchair ramp sensor to provide:

Value	Feature
Increased Uptime	Diagnostics to detect air system issues Fully validated product to bus environment
Reduced suspension calibration from one hour to less than one minute	One-touch calibration
Smoother and safer cornering	Reduced chassis roll by optimizing air flow and pressure throughout the suspension system
Decreased energy consumption	Reduced air consumption during kneeling
Custom heights	Independent air bag/corner control
Lower production and maintenance cost	Optional elimination of sway bars Fewer pneumatic connections
Reduced preparation time for shipment to customers	One-touch shipping mode
Measured vehicle loading	Efficiently manage acceleration and reduce energy consumption



Scan here to see how Smart Suspension works

# General Specifications

## Electrical

Voltage: 24 VDC

Max. current draw: 5 Amps

Height sensor supply: 5 VDC

System IDs: Resistive tags

## Communications

SAE J1939 compliant

Baud rate: 250K or 500K  
(500K preferred)

## Environment

IP67 and IP69 compliant

Temperature range: -40 °C to 71 °C

Salt spray: 336 hours per ASTM B-117

## Diagnostic

PC-based diagnostic tool available

RP 1210B compliant

## Recommended Pneumatic Connections

Channel lines: 1/2" OD tubing

Supply line: 5/8" OD tubing minimum (3/4" max)

Meets kneeling requirements defined in American Public Transportation Association Bus Procurement (APTA) Guidelines.

