

The New Prevest 18,000 pounds Independent Suspension System

Features and benefits presentation

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History

✍ 1996:

- ISS introduction
- 16,500 pounds capacity

✍ 2000:

- Slide-Out's growing in popularity
- 1,500 pounds added to the weight of the shell
- Need for higher capacity

✍ 2001:

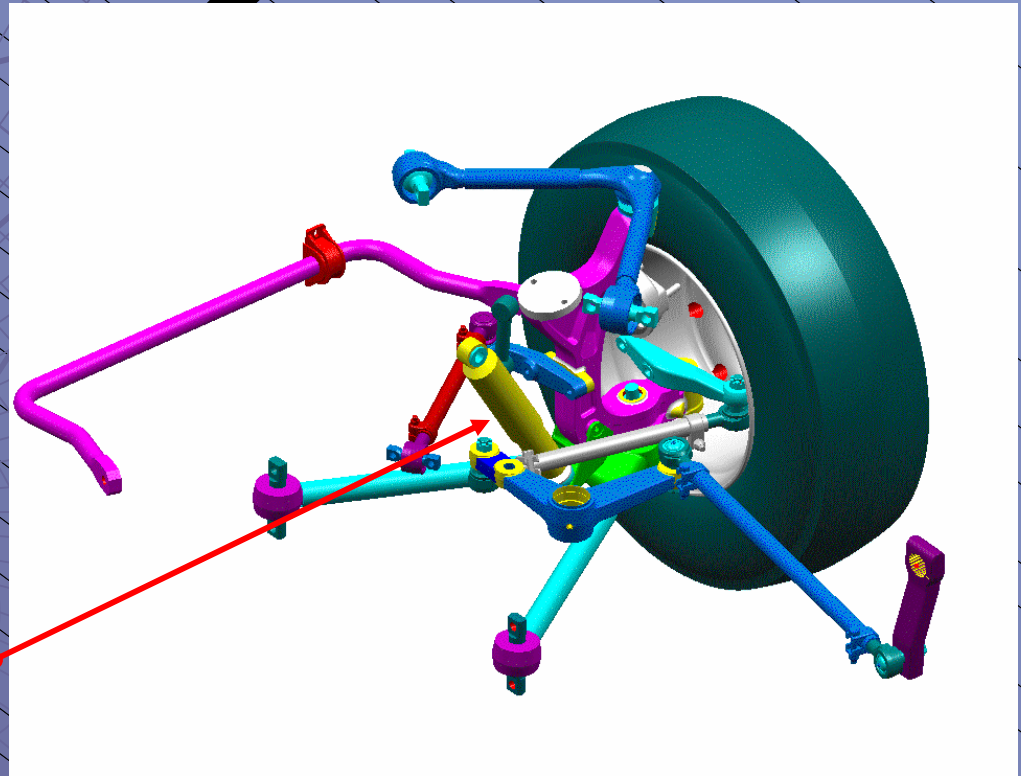
- ISS with 17,200 pounds capacity

✍ Today!

- ISS with 18,000 pounds capacity!
- Though it offers much more than higher capacity...

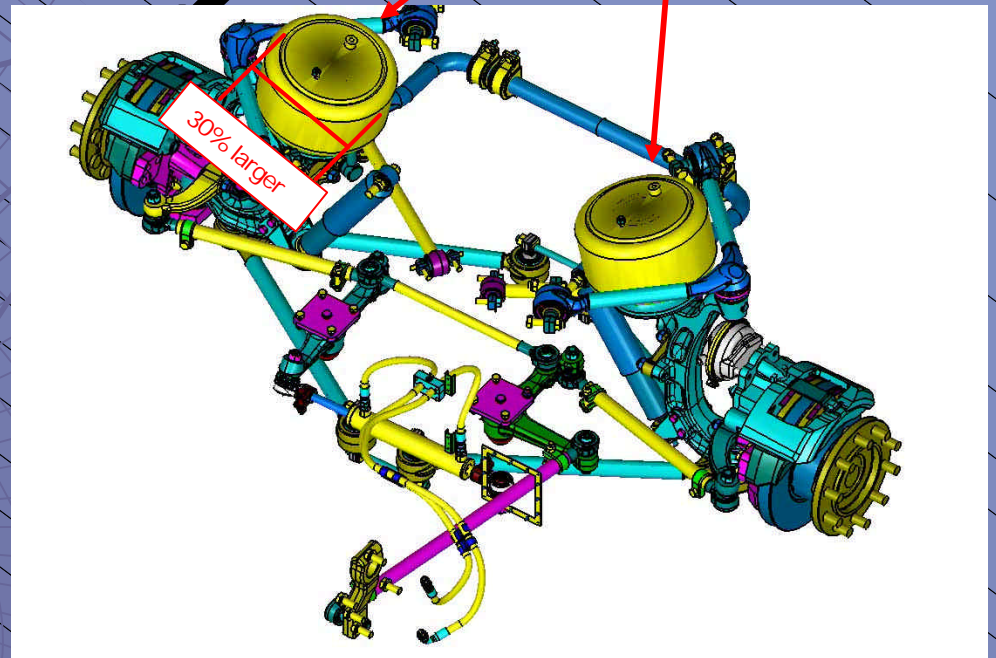
Suspension: Recalibrated shock absorbers

- ✍ Done on all axles
- ✍ Provides a smoother ride
- ✍ Improves road handling
- ✍ Shocks with a longer life rating (SACHS)



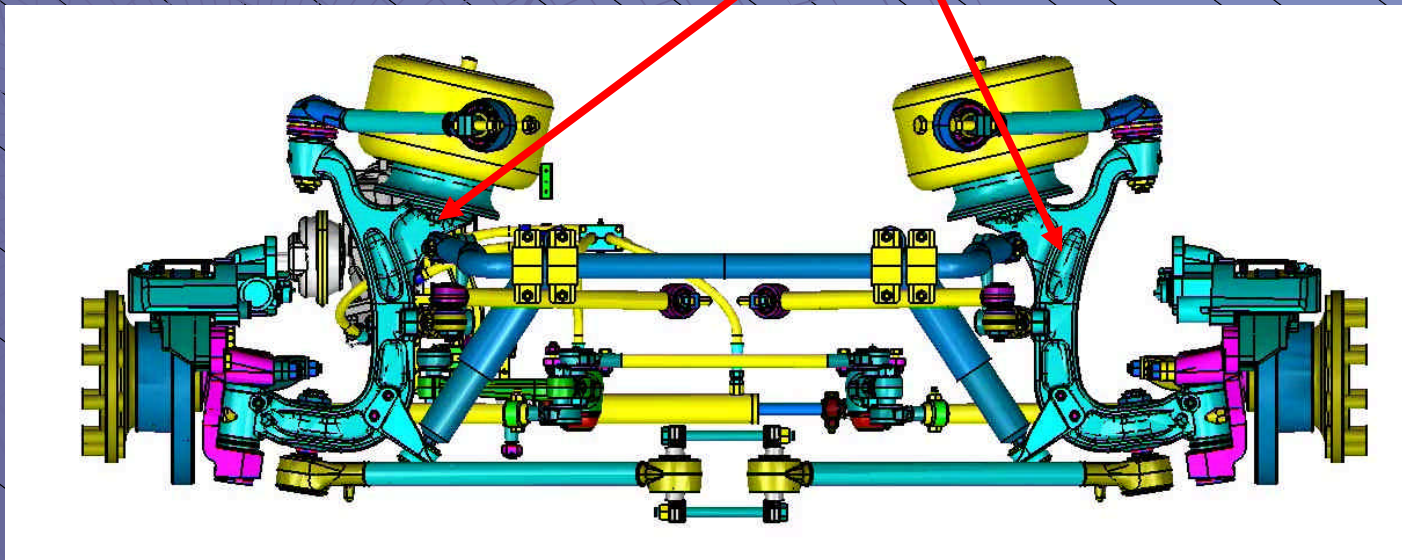
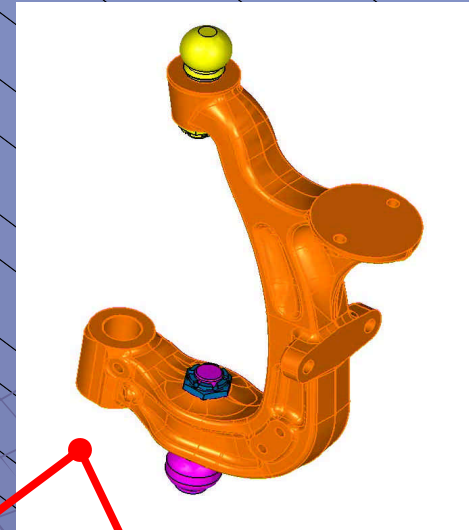
Suspension: 30% larger air springs

- ✍ Larger means more capacity for same air pressure (lb/sq. inch)
- ✍ Increased level low capacity
- ✍ Reduced air pressure, hence leaks
- ✍ Less demanding on pneumatic components:
 - Air compressor
 - Valves



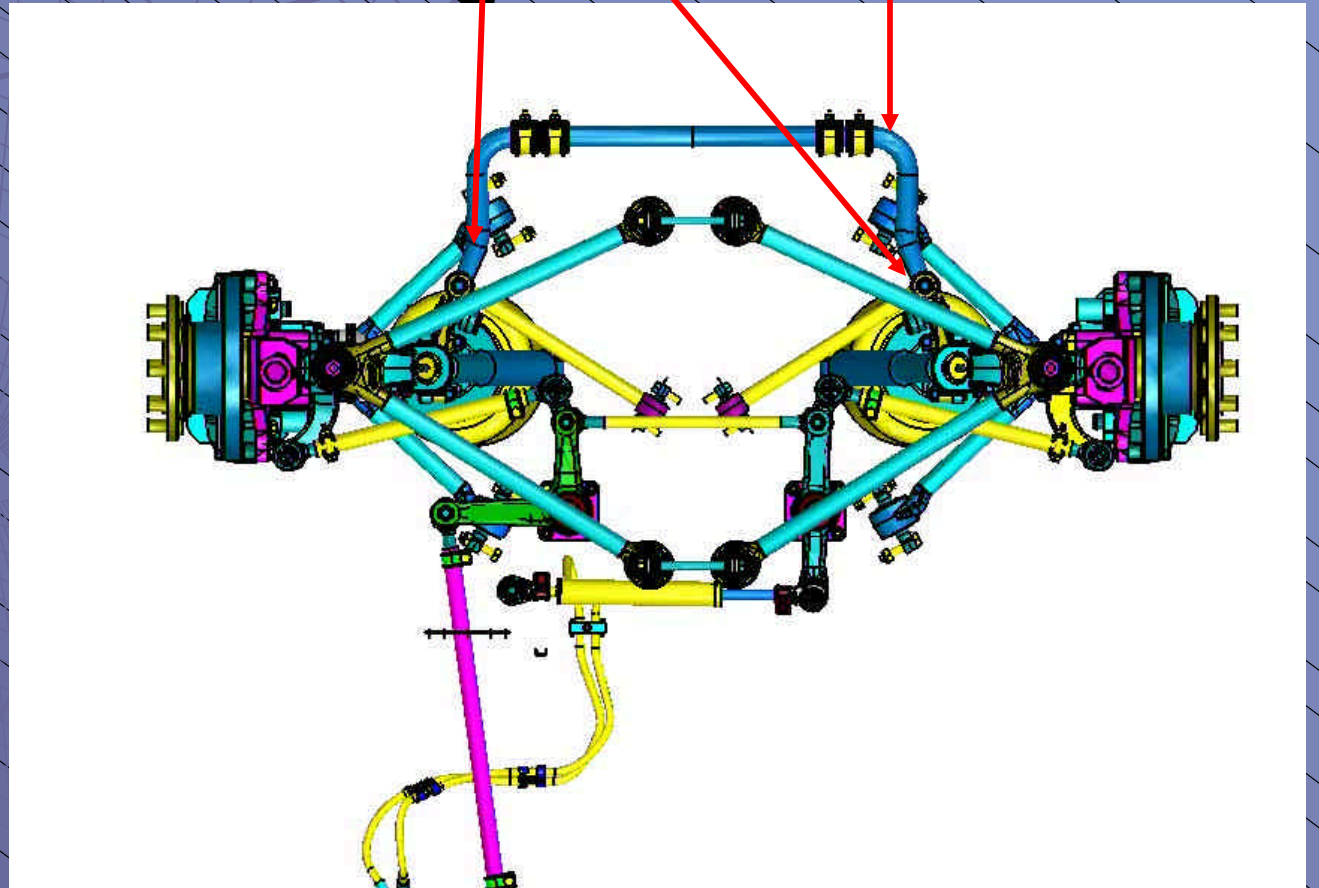
Suspension: Forged suspension components

- Enhanced capacity
 - Better resistance to stress
- Better manufacturing technology
 - Forging versus casting
 - More uniformity in material distribution



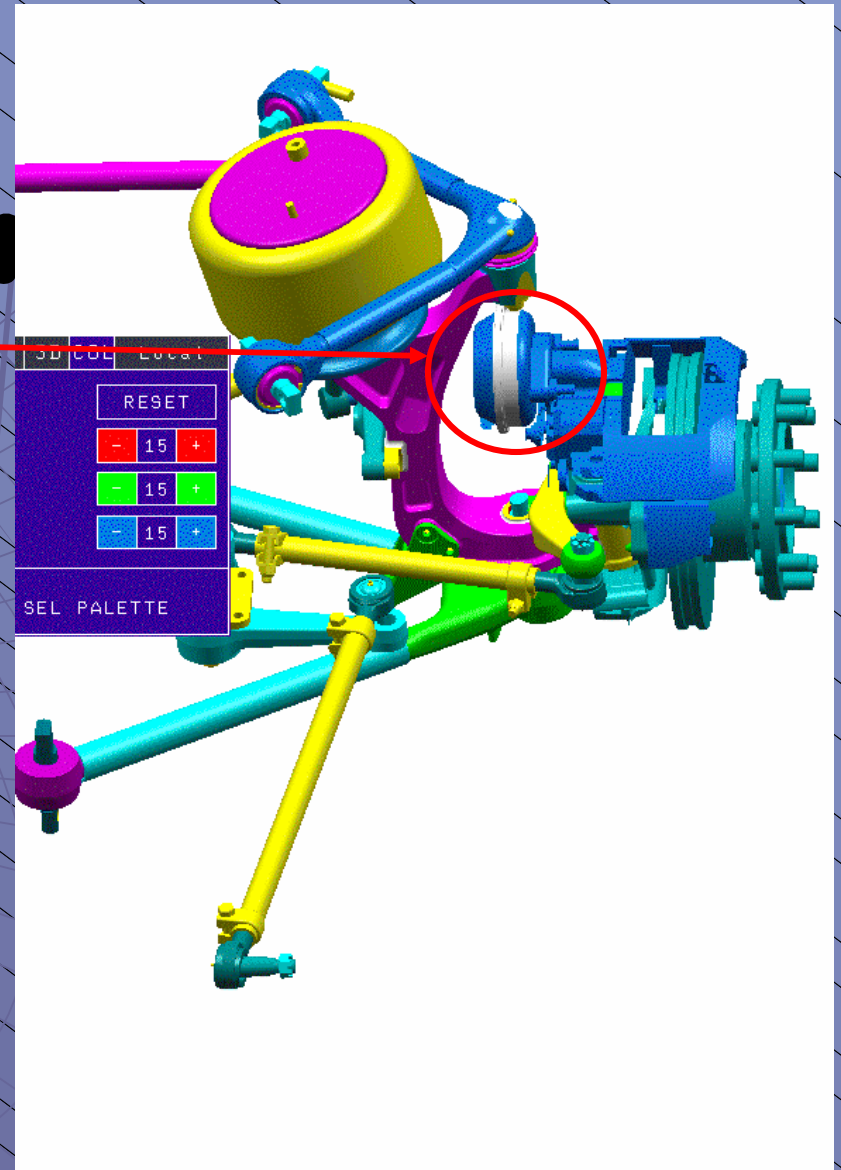
Suspension: New Torsion bar with new ball joint links

Longer life



Enhanced braking quality and capacity

- Overall 1.6% more braking capacity
 - 12.5% more braking power at front
 - Special boosters developed exclusively for Prevost (Type 27)
- Re-calibrated Tag axle braking capacity
 - Avoid wheel lock at emergency stop
 - 12.5% capacity reduction
 - Special boosters developed exclusively for Prevost (Type 14-16)
- FMVSS121 Re-certification



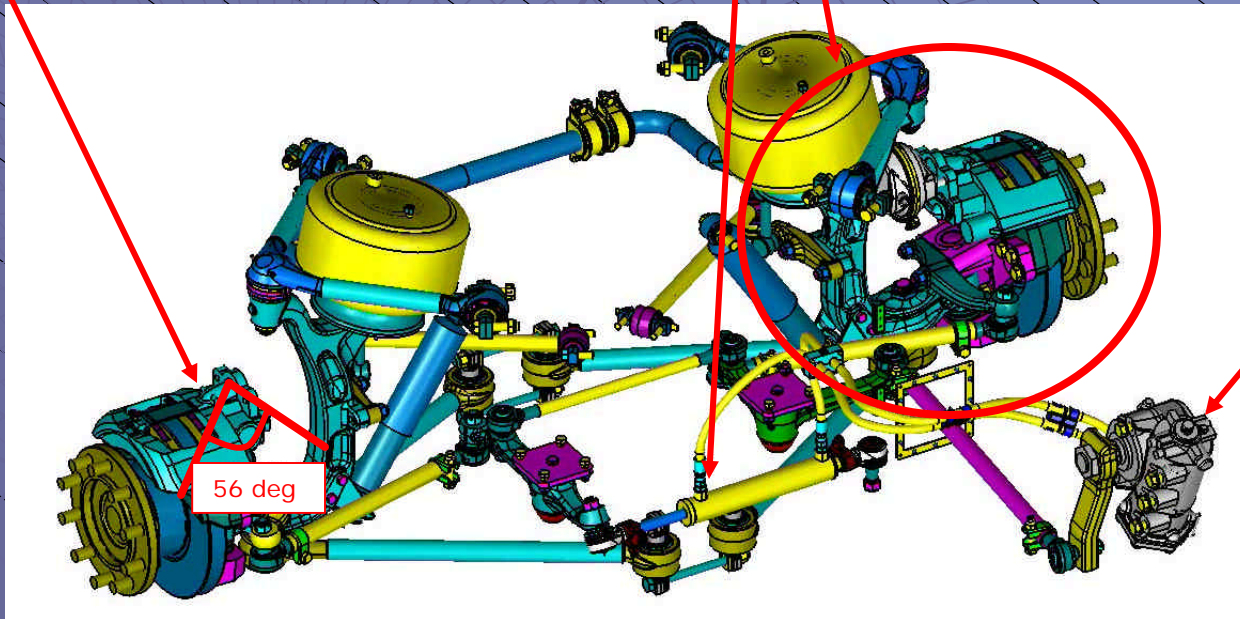
Steering improvements

- Higher hydraulic capacity
- Steer angle maintained at 56 degree despite larger tires
 - Maneuverability maintained

Slave cylinder added to enhance steer action when vehicle is stopped

Improved Steering geometry

- Improved road feeling
- Reduced tire wear



Power
Steering
Unit

New tires



Michelin 365/70R X 22.5
• 2 tag axle wheels

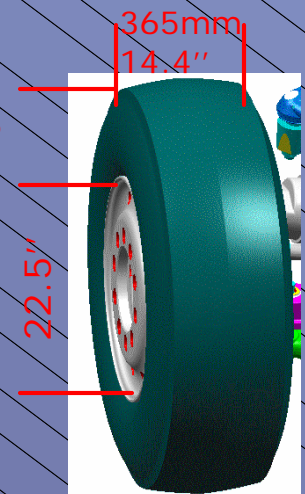
Michelin 315/80R X 22.5
• 4 drive axle wheels

Michelin 365/70R X 22.5
• 2 front ISS wheels

- 365 Tires developed for Prevost and using new Michelin technology
 - Improved ride comfort due to lower air pressure
 - Enhanced fuel economy due to reduced rolling resistance
 - Increased capacity
 - Reduced rolling noise
 - Larger tires less sensitive to road imperfections
- Lower air pressure required
 - 105 PSI required on front versus 125 before
 - 80 PSI required on Tag versus 100 before

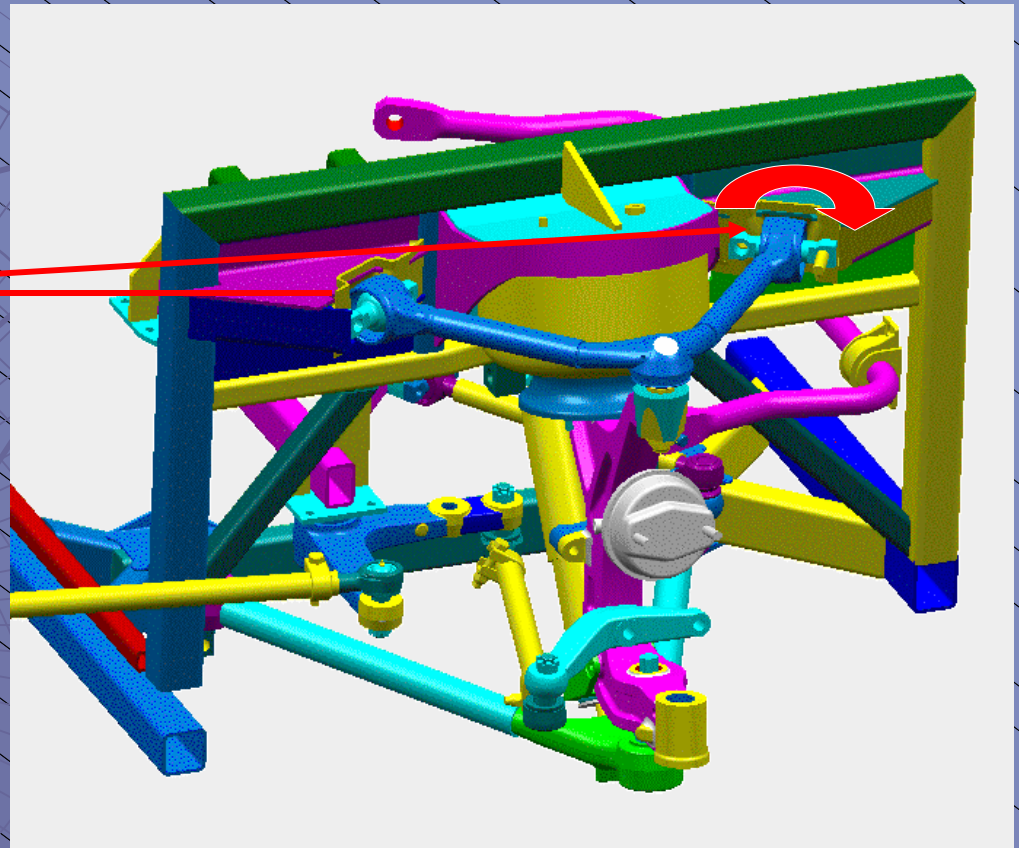
$$365 \times 0.7 = 255.5$$

10"



Top V-Link geometry improvement

- ✍ Reduced angular displacement
 - Increased life of bushings
 - Eliminate squeaking noise



New Unitized bearings

- ✍ Installed on front suspension and tag axle
- ✍ Sealed greased bearing
 - Eliminate possibility of oil leaks through seals or oil cap
 - Eliminate maintenance and adjustments
 - Pre-adjusted by manufacturer

