FRONTRUNNER®
by New England Wheels

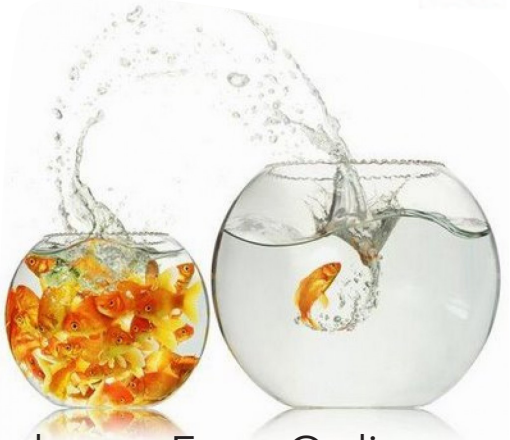
THE LOW FLOOR YOU'VE BEEN WAITING FOR

U.S. Patent #s 9,302,709 & 9,988,102

The Future of Commercial Transportation

European inspired design challenges the typical American bus, offering exceptional passenger entry convenience, quiet rattle-free ride, outstanding visibility, attractive appearance, low maintenance costs, and best in class fuel economy.

MEETS
BUY AMERICA



Breakaway From Ordinary
Separate Yourself From The Pack

Flat floor offers wheelchair occupants the comfort, security and convenience unavailable in a typical theater seating design. Light-weight fold-out ramp exceeds the proposed ADA 1:6 standard and offers what no other traditional wheelchair lift can-space savings and reliability.

Smart air-suspension, standard on every FrontRunner, communicates with the vehicle's on-board body computer to self-level, even lowering the vehicle's nose at highway speeds for improved aerodynamics and fuel efficiency.

Front-wheel drive offers the security of better traction in inclement weather and a better turning radius than a comparably sized rear wheel drive mini-bus.

With room for 15 passengers and up to 3 wheelchairs (8 passengers with 3 wheelchairs) the FrontRunner does not require a commercial driver's license (CDL). Low step-in height in the kneeling position of 9.75" bests the competition by almost 20%.

Chassis & Body Structure

Engine - 3.6L Pentastar V6 Transmission
Transmission - 6-Speed Automatic Transmission
OEM Cutaway - RAM 3500 Promaster Cutaway
GVWR - 9,350 lbs.
Lowered Floor - N.E.W Proprietary
High Strength Lightweight Steel Proprietary
Lowered Floor chassis provides 3x the yield strength of traditional steel structures.
Galvanized coating for superior corrosion resistance.
Bus structure covered under US Patent # 9,302709 B1 other Patents pending

Bus Structure

Patented Advanced Composite Design (other Patents Pending)
Warranty OEM - 3 years 36,000 miles
Warranty Bus structure - 3 years 50,000 miles

Technical Specifications

» Wheelbase - 179.8”
» Ride Height - 12.8”
» Step-In Height (Kneeled Position) - 9.75”
» Overall Length - 22’ 8”
» Overall Width - 93.2”
» Lightweight gas spring assist fold-out aluminum ramp 34” x 60”
» Overall Height (Excluding A/C Unit) - 102.3”
» Interior Width - 89.6”
» Interior Height - 87.8”/79.4”
» Clear Door Opening - 41.5” 1.5 million cycle tested
» Aisle Width - 20” (without seat arm rests)
» Angle of Approach - 18.6°
» Angle of Departure - 12.8°
» Breakover Angle 11.25°
» Uniform Ground Clearance 9.25”
» Meets All Applicable FMVSS Requirements

FRONTRUNNER™ ELECTRONIC CONTROLLED AIR SUSPENSION SYSTEM (ECAS) WITH OptiRide™

System computer continuously monitors vehicle height on each axle.

As more passengers enter the vehicle the system adjusts the ride automatically.

Highly durable in cold climates. Air drying system tested in extreme weather conditions,
from -22°F to +158°F.

Aerodynamically lowers the vehicle at highway speed for improved Ride performance and fuel efficiency. Enables fuel saving of up to 5 % and Highway Mileage of
up to 18 mpg.

Kneeling system can be calibrated & remotely diagnosed using Bluetooth/WIFI from a remote location.

Rapid lifting and lowering of bus, automatically recovers the vehicle height at a speed of 5 mph with no required driver interaction.

100% duty cycle electric compressor IP67 Certified.
Fully protected against dust and water immersion of up to 3 Feet.

FRONTRUNNER™
by New England Wheels
The End of Ordinary

FRONTRUNNER™ FULLY ELECTRIC, DUAL LEAF, PLUG-RAPID SLIDING DOOR

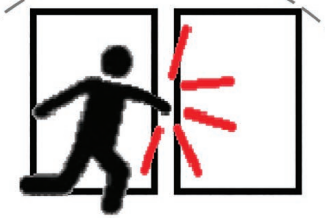
1,500,000 CYCLES DURABILITY TESTED

for performance and safety.

AUTOMATIC DOOR

Best in class clear opening of 41.5” for faster passenger boarding.

LED lit- touch button for easy door opening from the outside.



Obstruction detection during closing automatically reverses door for passenger safety.

WATERPROOF

Plug Door provides superior water tight seal.

Speed obstruction detection and safety stop for pedestrian safety.

SOUNDPROOF

Plug Door provides wind noise and rattle free ride.

FRONTRUNNER™ by New England Wheels

The End of Ordinary

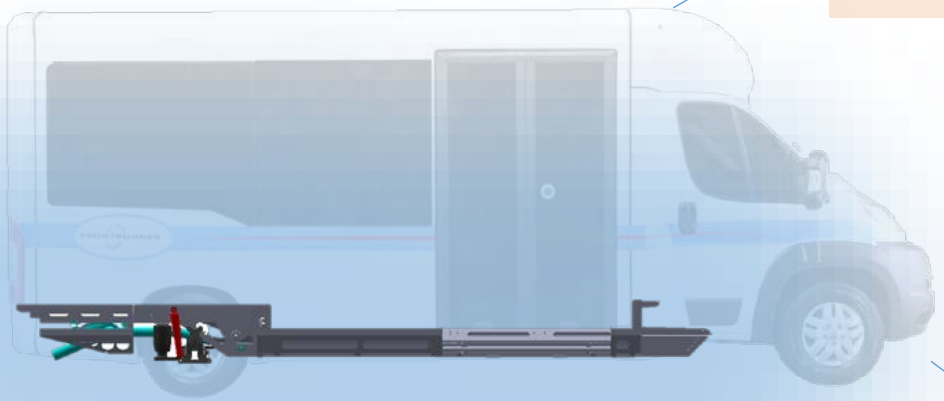
FRONTRUNNER™ CHASSIS EXCLUSIVE FEATURES

In Technical collaboration with Coxx mobile systems, New England Wheels has developed a proprietary low floor bus chassis on the Promaster platform for the U.S. market.

Patented Lightweight bus technology

The X-low chassis is built with high yield strength steel of 101,500 PSI compared to traditional steel of 32,000 PSI.

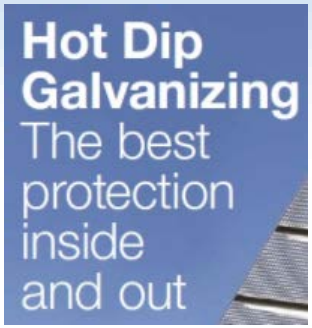
Proud recipient of



OptiRide™

Certified by Meritor Wabco
The Computerized calibration of suspension airbags provides unmatched comfort and reliability.

All steel parts are Hot Dip Galvanized (ISO 1461) for superior rust proofing and long term durability.



This process acts as a barrier between the environment and the steel structure. Even if the galvanized coating gets damaged and the steel gets exposed to moisture or debris, the zinc through a galvanic process protects the steel from corrosion.

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The End of Ordinary

FRONTRUNNER™ GAS ASSIST – LIGHT WEIGHT MANUAL WHEEL CHAIR RAMP

1:6 slope ratio. Exceeds ADA requirement of 1:4.

Built with high strength Aluminum extrusions, anodized for heavy duty commercial use. Rated at 800lbs weight capacity.

Flat bus floor at entry ensures safe and easy boarding.

All mechanical parts provide long term durability & maintenance free operation.

Gas spring assist provides low effort for opening and closing the ramp.

Triangular indentations provide excellent slip resistance. Holes in the ramp allow moisture to drain.

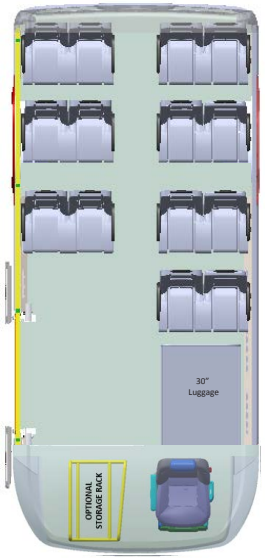
FRONTRUNNER by New England Wheels

FRONTRUNNER ™ COMPARED TO COMPETITION

	FEATURES	FRONTRUNNER ™	COMPETITION
	Step-in height after kneeling	9.75” ✓	11.3”
	Wheel chair Ramp Ratio	1:6 ✓	1:5
	Interior Height at center aisle	87.84” ✓	83.8”
	Clear door opening with handles	41.3” ✓	35”
	Clear door height	76.25” ✓	75.4”
	Window Size and Visibility	Large ✓	Small
	High strength steel chassis of 105,000 PSI	STANDARD ✓	N/A
	Hot dip galvanized chassis	STANDARD ✓	N/A
	Sidewall Structure	FRP Structural Composite ✓	Steel
	Door Type	Plug Sliding ✓	Folding
	Composite floorboard panels	STANDARD ✓	N/A
	Pressure activated sensitive edge on door	STANDARD ✓	N/A
	Lowest point between axles	7.5” ✓	6”
	Ground Clearance at center	9.25” ✓	8”
	Floor at Door Entry	FLAT ✓	SLOPED
	Interior floor surface at entrance	FLAT ✓	SLOPED
	Floor Surface – Wheelchair positions	FLAT ✓	SLOPED
	High speed suspension aerodynamics	STANDARD ✓	N/A
	Tail light Assembly integrated into body style	STANDARD ✓	N/A
	FRP-Composite light weight bumper	STANDARD ✓	N/A
	Roof Structure	Reinforced Aluminum Composite ✓	Steel

Seating Plans

SHUTTLE



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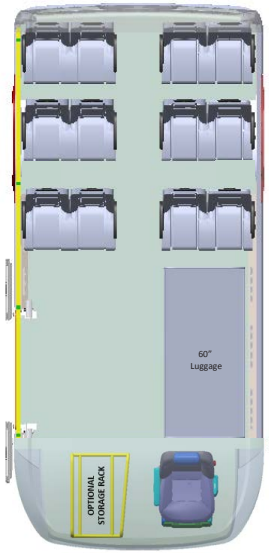

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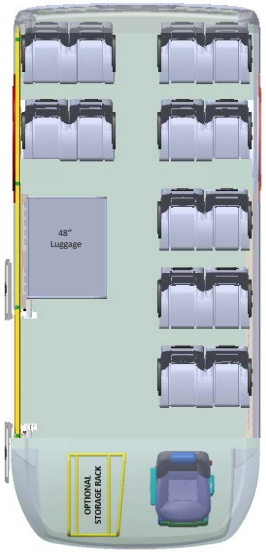

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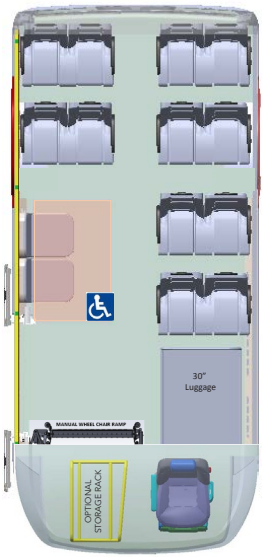
SHUTTLE & MOBILITY



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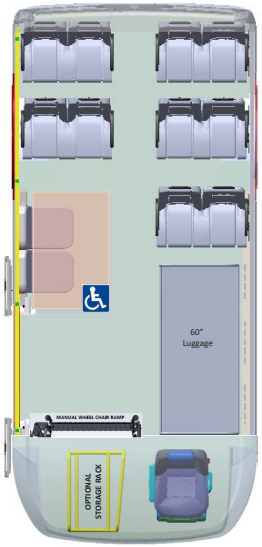

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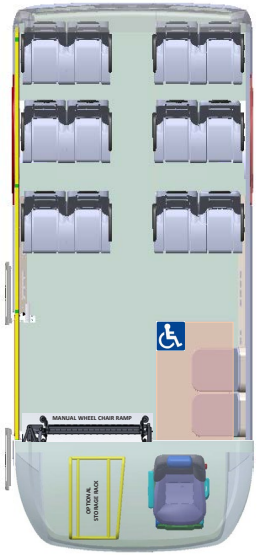
MOBILITY



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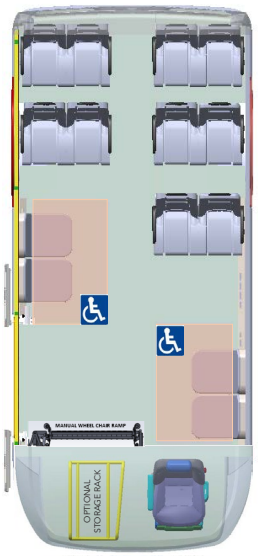
Authorized Dealer:

MOBILITY



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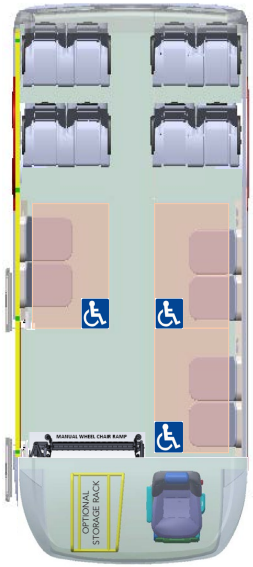

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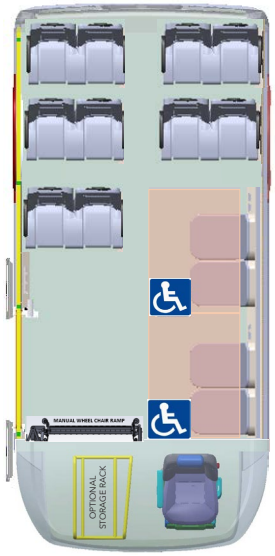

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New England Wheels
33 Manning Road
Billerica, MA 01821
1-800-886-9247
978-663-9724 Fax: 978-663-6709
Email: sales@newenglandwheels.com
www.newenglandwheels.com