

**BID SPECIFICATIONS  
FOR LOW FLOOR, PURPOSE BUILT, (NON CONVERSION  
OR MODIFIED) PARATRANSIT MOBILITY VEHICLE 17'  
WITH A INTERGRATED ADA SIDE RAMP**

The following specifications shall apply to the purchase of a **Purpose-Built Non Conversion** ramp accessible passenger mobility vehicle by transit providers receiving State of Oklahoma and/or Federal Transit Administration (FTA) funds. The Oklahoma Department of Transportation (ODOT) reserves the right to waive minor technicalities under these specifications.

All ramp-accessible **Purpose-Built Non Conversion** passenger mobility vehicle purchased under this bid must comply with FTA Buy America Guidelines. Any vehicles that are bid or delivered that do not comply with the Buy America Guidelines will not be accepted unless a waiver from (FTA) was issued.

The ramp-accessible mobility vehicle must comply with all applicable Federal Motor Vehicle Safety Standards (FMVSS) for this type of vehicle. In addition, the vehicle must comply with Title 49 Code of Federal Regulations, part 38, subpart B, dated September 6, 1991, entitled "Americans with Disabilities Act (ADA) Accessibility Specifications for Buses, Vans and Systems". Written certification that the vehicles to be supplied through this bid proposal will be in compliance with FMVSS must accompany this bid as well as the Special Provisions supplied by ODOT.

Vehicles shall be of the latest model year in standard production and of which parts and warranty service is available at one or more points in Oklahoma or border cities.

The bidder agrees, if their proposal is accepted by ODOT, to guarantee that the design, materials and workmanship throughout the vehicle will conform to the highest standards of the vehicle bid according to the standard factory warranty.

To take advantage of administrative and cost savings and to ensure that all federal requirements are met, this procurement is assignable to other agencies, organizations and tribal Governments funded by the Federal Transit Administration.

**NOTE:**

Any Brand names and specifications mentioned within this document are for reference only. Bids will only be considered when brochures/specifications are included for each Vehicle.

**ESTIMATED QUANTITY TO BE PURCHASED: 0-100 VEHICLES**

Unless otherwise specified, all items listed below as OEM parts or equipment means that those items were installed by the OEM.

**ACCESSORIES:**

All safety items and air pollution controls required by statute or regulation in effect at the time the vehicle is produced, dual sunshades, horn, prismatic type day/night mirror, parking brake with warning light, factory standard electronic AM/FM/CD stereo with clock, factory tinted glass in all windows, full size spare tire shipped loose and all other accessories or optional items which may be shown in the proposal shall be installed in each vehicle. In addition three sets of keys shall be provided with the vehicle.

**AIR BAGS:**

Driver side shall be equipped with Generation II air bags.

**AIR CONDITIONER:**

The air conditioning system shall be factory installed and shall be designed to adequately cool the interior of the vehicle with a full load of passengers.

- The system shall consist of one evaporator installed in the front area with integral dash outlets and with rear outlets designed to direct the air throughout the vehicle.

- Evaporator shall be equipped with multi-speed fan. On/Off switches and fan controls shall be within easy reach of the driver.
- Air conditioning efficiency is of paramount concern to the purchaser.
- The Vehicle's electrical system shall be designed so that an ample electrical supply will be provided to maintain optimum air conditioning performance without battery discharge.
- All lines and hoses shall be sufficiently fastened, protected, and insulated to ensure against wear from friction and the elements.
- The lines must be mechanically attached, with OEM clamps, to the vehicle structure at no greater than 18 inch intervals and must be routed so as not to be exposed to wheel spray and not pass within 2 inches of any part of the exhaust system.

**ALTERNATOR:**

12 Volt, 155 Amps. (Minimum) or OEM Maximum.

**BACK-UP WARNING DEVICE:**

The vehicle shall be equipped with an audible warning device that is activated when the vehicle transmission is engaged in reverse and continues as the vehicle is being backed.

- This should be located behind the rear axle of the vehicle and all wires should be enclosed and secured.

**BATTERY:**

A Heavy duty, minimum 750 CCA, 12 Volt, maintenance free or OEM maximum.

- The location and installation of the battery shall ensure easy access for replacement and maintenance.

**BRAKES:**

4 wheel anti-lock brake system (ABS) with disc brakes.

- The vehicle must have been tested to comply with FMVSS 105. You cannot shift the automatic transmission out of Park unless brake pedal is depressed.

- Brake warning light and ABS malfunction warning light shall be supplied.

**BUMPERS:**

Front and rear. Bumper height shall provide proper ground clearance.

**CRUISE CONTROL:**

Must be Standard OEM factory equipment.

**DRIVER/FRONT PASSENGER DOOR:**

Standard OEM factory equipment.

**PASSENGER DOORS:**

The vehicle shall be equipped with manually operated single, left and right-side mounted (behind left and right-side front passenger doors) doors.

**(Sliding Doors Not Allowed)**

- Doors must maintain seal to prevent the entrance of air, water and other elements.
- Doors must have a minimum opening of 36" and a minimum door clearance height of 56".
- The Ramp Door shall be equipped with an interlock system
- The door must be capable of being opened from the inside of the vehicle.
- Passenger doors must be aligned correctly and able to open and close smoothly.

**DOORS AND WINDOWS:**

**Shall have Power Windows and Power Door Locks:**

Fit and finish standards must include that the doors and interior panels shall be painted or otherwise finished with a non-glare finish in order to match the other interior panels.

**EMERGENCY EQUIPMENT:**

All miscellaneous equipment must be secured to the vehicle and easily accessible.

- First aid kit: 36 Unit deluxe vehicle first aid kit
  - Must be a **Cintas model # 02092, or equivalent.**

- Fire extinguisher – Multi-purpose Stored Pressure Dry Chemical Extinguisher.
  - Must be a **5 lb type 2A:10B:C, Amerex B500T or equivalent.**
  - Must have a gauge to indicate state of charge.
- Triangle warning devices (3), with storage container,
  - must meet FMVSSP # 125
- Bloodborne Pathogens infection control kit.
  - Must be **Cintas model # 25011, or equivalent.**
- Bloodborne Pathogens infection control kit refill
  - Must be **Cintas model # 25010, or equivalent.**
- Seat belt cutter

#### **ENGINE:**

Minimum 4.6L liter V8 gasoline engine with electronic fuel injection and shall include: oil filter, air cleaner and heavy duty radiator capable of providing sufficient cooling capacity for the operation of all air conditioning equipment.

- Engines that are E-85 flexible fuel capable are preferred if available at no additional cost.
- Engine cooling system shall be protected with permanent type antifreeze to minus 20 degrees Fahrenheit.
- The Coolant used shall meet or exceed the engine manufacture's specification.
- A permanent label listing protection level shall be supplied and riveted or screwed to the close proximity to the radiator.
- Engine warning system with light indicated oil pressure below 6 psi and with a light to indicate water temperature above 210 degrees Fahrenheit.
- Engine shall meet the latest applicable emission control standards.

#### **LIGHTING:**

Must meet all ADA requirements as stated in the Federal Register, Part IV, Department of Transportation, 49 CFR Parts 27, 37 and 38, Transportation for Individuals with Disabilities; Final Rule, published Friday, September 6, 1991.

- Ramp area lighting shall illuminate automatically when door is opened.
- Adequate interior lighting shall be installed throughout which provides a minimum of two foot-candles at a seated level.
- Interior lighting fixtures shall be reasonably flush with the interior walls and ceiling to prevent a hazard to passengers.

#### **FRAME:**

- Must have a fully boxed frame and tubed supportive cross members to provide additional frame stiffness and durability.
- Frame must be coated with a rust inhibitor to increase longevity of vehicle.

#### **BODY ASSEMBLY:**

Body assembly shall be the following.

- Body shall be a Body on Frame Structure (Unibody Construction Not Allowed)
- Body shall be made of Galvanized Steel.

#### **SUB FLOOR:**

The interior floor shall be made of metal and provide a smooth surface for flooring attachment and to minimize interior noise.

- The proper insulation should be used to prevent the exhaust from making the floor so hot that it would be uncomfortable for the passengers.

#### **FLOOR COVERING MATERIAL:**

Shall be a durable nonskid transit-type flooring.

- The floor covering shall be butt jointed and cemented to the floor with a waterproof adhesive in order to prevent bubbles and blisters which could create a safety hazard.
- Mobility air restraint tracks and seat locks shall be beveled, with no sharp edges and will protrude no more than 1/4" above floor surface.

**REAR AXLE:**

Minimum 3000 lbs. capacity or OEM maximum.  
Shall be rear wheel drive with a 3.45 axle ratio.  
Shall have an air self-leveling suspension system

**FRONT AXLE:**

Minimum 3000 lbs. capacity or OEM maximum.

**FUEL TANK:**

Largest available, but no less than 24 U.S. gallons.

- Tank, fuel lines, and hardware must meet all current FMVSS, including FMVSS 301, as well as all current CARB and EPA requirements.
- Fuel Tank shall include an easy access fuel pump cover in Body.
- Tank shall be calibrated with the OEM dash fuel gauge.

**GUAGES:**

Fuel, water-temperature, oil pressure, Voltmeter, speedometer, odometer and Tachometer.

**HORN:**

Dual, electric

**HEATER:**

Heavy-duty heater are required.

- Shall be factory installed hot water type, of sufficient capacity to warm cabin area and clear windows of snow, ice and fog.
- The water lines for the heater coil may be housed within the conduit used for the air conditioning refrigerant lines.
- All lines and hoses shall be sufficiently fastened, protected, and insulated to ensure against wear from friction and the elements.
- The lines must be mechanically attached, with OEM clamps, to the vehicle structure at no greater than 18 inch intervals and must be routed so as not to be exposed to wheel spray and not pass within 2 inches of any part of the exhaust system.

**INTERIOR INSULATION:**

All side walls and areas around the windows shall be insulated and finished with matching trim and color.

- Entire ceiling shall be insulated.
- Insulation shall consist of a polystyrene composite and shall be nontoxic.
- A polyurethane foam or honeycomb resin is also acceptable.

**INTERIOR HEIGHT (at center):**

Minimum 57 ½"

**INTERIOR LENGTH:**

Overall interior floor length

- Shall be a minimum of 81.5 ".

**INTERIOR TRIM:**

- Material and treatments shall be flame retardant to meet FMVSS 571.302 and be surface treated for efficient cleaning.
- Panel fastening devices shall have smooth finishes without any unprotected sharp edges.

**LAMPS:**

Automatic daytime running lamps, if available.

**EXTERIOR MIRRORS:**

Left and Right folding power adjustable

- Manual Folding

**INTERIOR MIRROR:**

10" automatic day/night rear view mirror.

**STORAGE:**

Must have storage place in center console and one in dash:

**KEYS:**

Must have 3 sets of keys



**OVERALL HEIGHT:**

Measured from front to highest point of vehicle.

- Minimum 66", Maximum 83".

**OVERALL LENGTH:**

Minimum of 195", Maximum 210"

**OVERALL WIDTH-EXTERIOR:**

Maximum 80".

**GROUND CLEARANCE:**

Minimum 6"

**OVERALL WIDTH-INTERIOR:**

Minimum 64.5".

**RADIATOR:**

Heavy-duty, with factory installed coolant recovery system.

- Vehicle's cooling system must be winterized with ethylene glycol for temperature to 20 degrees F below zero.

**REAR WINDOW:**

Defogger/defroster with wiper/washer

**ROOF GUTTERS:**

Gutters shall be contoured into the roof design of vehicle.

**DRIVER'S SEAT:**

Shall have a 6 way adjustable commercial driver seat.

**FRONT PASSENGER SEAT AREA:**

The front passenger area must be dedicated for a wheel chair and meet all applicable ADA requirements.

**REAR (3<sup>rd</sup> ROW) SEAT:**

Standard three (3) passenger capacity, all passenger seats shall be made of durable type materials that can be cleaned easily, fully padded for occupant comfort and retention.

- All materials used in seats (including driver seat) shall comply with FMVSS burn resistance requirements.
- All seat colors shall match the vehicle color and be aesthetically pleasing.
- All seats will comply with FMVSS seat anchorage requirements.
- The floor plan must comply with the current American with Disabilities Act standards such as axle width, knee room, etc.

#### **SEAT BELTS:**

Passenger restraints (seat belts) shall be furnished for all passenger seating positions and for the driver.

- Restraints shall consist of lap belts and/or shoulder seat belts.
- Belts shall comply with FMVSS belt requirements and be of sufficient length for adults, and include two (2) Seat Belt Extensions.
- There needs to be a commercial quality seat belt knife fastened to vehicle in driver's reach.

#### **STEERING:**

Power assisted, with Tilt column

#### **SUSPENSION:**

The vehicle shall have front and rear independent suspension system adequate to support the rated weight capacity of the individual axle.

- Front Short Long Arm (SLA) suspension that provides a tight turning radius and a rack and pinion steering gear.
- Rear suspension with steel leaf springs and air shocks to deliver a comfortable ride for all passengers.

#### **TRANSMISSION:**

4 speed minimum automatic including overdrive.

- Transmission shall be capable of transmitting the torque and horsepower listed on the engine and have a transmission oil cooler.

#### **UNDERCOATING:**

All exposed floor seams shall be sealed **with an industrial grade butyl sealant or equivalent** that conforms to ASTM C920.

- The entire body and frame shall be tumbled rotated through a tank in which a high voltage electrical charge bonds a rust inhibitor necessary for rust and corrosion protection. And then baked in an oven to cure.

**VEHICLE COLORS:**

**Body:** White

**Interior/Seats:**

- Gray Leatherette Seating Fabric

**WARRANTY:**

Warranty must be as follows

- A Bumper-to-Bumper Warranty 3 years or 36,000 miles
- Vehicle shall have a 5 Year or 75,000 mile manufacture power train warranty.
- 5 year or 100,000 mile Rust Through Warranty
- Emissions warranty as mandated by Federal and State
- Wheel Chair Ramp 5 years or 75,000 miles
- These warranties shall begin on the date that vehicle delivery is accepted by the agency issuing the purchase order.

**WHEEL BASE:**

Minimum of 122 inches.

**WHEELS AND TIRES:**

Tire size must be compatible with each vehicle and must meet 6,600 lb. GVWR minimum.

- Tires shall be steel-belted radial all season type tires.
- Wheels shall be made of steel
- Shall have full Wheel covers
- Shall have an tire sealant and inflator kit included
- Spare wheel and tire shall be of the same size as all the other wheels and shipped loose with vehicle

**WHEELCHAIR ACCESSIBILITY SYMBOL:**

The international wheelchair accessibility symbol depicted on sign D9-6 in the "Manual of Uniform Traffic Control Devices" published by the federal Highway Administration shall be affixed to the outside of each vehicle on all four sides.

- No vendor/dealer advertisements shall be on the symbols.
- Symbols shall be between 3" and 4" in overall height.

#### **WHEELCHAIR POSITIONS:**

Minimum of one ADA complaint wheelchair position and 3 ambulatory positions. Shall be provided as standard equipment:

- This tie-down configuration allows for one (1) wheelchair passenger and three (3) ambulatory passengers. Wheelchair position must be forward facing.

#### **WHEELCHAIR RAMP:**

Vehicle will be equipped with a manually deployed integrated ramp that stores under the floor as standard equipment:

- The ramp shall have a minimum usable width of 30" and slope meeting the requirements of ADA, 49 CFR.
- The ramp surface shall be continuous, with the surface being either expanded or solid metal. If solid metal, it shall be covered with (Armstrong Crosswalk, or equivalent) slip-retardant flooring.
- The ramp side rails shall have a bright yellow finish running the full length of the rail.
- Ramp shall have a rated capacity of 660 lbs. with a safety factor of at least three (3) based on the ultimate strength of the material.
- Each side of the ramp shall have protective barriers at least two (2) inches high to prevent mobility aids from rolling off of the ramp edge and must have yellow tape on them.
- Ramp must meet all ADA requirements as set out in the Federal Register, Part IV Department of Transportation, 49 CFR Parts 27, 37 and 38, Transportation for Individuals with Disabilities; Final Rule, published Friday, September 6, 1991.

#### **WHEELCHAIR SECUREMENTS SYSTEM:**

The securement system shall be, **Q'Straint QRT MAX Automatic Retractor System Q-8309-L with L-Track anchorage system and J-Hooks, or equivalent.**

- They must be fully assembled and ready to use.
- Shall include securement pouches store wheelchair securement tie-downs.
- Shall include four (4) Q5-7580 Webbing Loops for Securing Scooters. Belt system shall be of sufficient length to accommodate a motorized wheelchair.
- A minimum of two tracks, (pads), each of sufficient length for proper attachment and positioning of the belts, shall be placed parallel to each other and perpendicular to the direction in which the wheelchair faces.
- The anchors must be bolted to structural steel.
- The tracks shall be securely mounted to the vehicle, flush from the floor and ramps, to insure that the track will not pull away from the van floor or shift position under anticipated loads.
- Any tracks overlapping the access path must be recessed into the floor to prevent passengers from tripping.
- All attachment hardware and anchorages shall meet or exceed the 30 mph/20 Impact Test criteria per SAE J2249, 36 CFR Part 1192 and CFR Part 38, and all applicable Federal Motor Vehicle Safety Standards, as amended.

#### **WHEELCHAIR OCCUPANT RESTRAINT:**

The wheelchair occupant restraint system **shall be Q'Straint Q8-6325** or equivalent.

- Shall have a standard manual lap/shoulder belt combo or equivalent to.
- That meets SAE J2249 and ADA requirements.
- The L tracks must be bolted to structural steel.

Price bid should be for 2 sets of wheelchair restraints (which would cover both wheelchair placements).

VENDOR WILL SUPPLY WRITTEN OR VIDEO INSTRUCTIONS ON THE USE OF THE RESTRAINT SYSTEM.

#### **WINDOWS:**

Factory tinted safety glass all around, (1) window on each side capable of being opened.

- Shall be at least 30% smoked glass windows throughout passenger area that is be factory installed.
- After market add on films is not acceptable.

**NOTE:**

All windows and emergency exits shall meet the performance and operational requirements as outlined in the Federal Motor Vehicle Safety Standards and Procedures.

**WINDSHIELD:**

Tinted safety glass.

**WINDSHIELD WASHER:**

Windshield washer must be protected with winter-strength solution.

**WIPERS:**

Must have front and rear wipers with an intermittent wiper system.

**WIRING:**

Schematic of wiring shall be included with the vehicle at the time of delivery.

- Each vehicle shall have a 12-volt electrical charging system as supplied from the OEM.
- All electrical wiring shall be automotive stranded copper, of sufficient gauge to handle the load, color-coded to match the OEM.
- All harnesses will be secured to the frame/body at a maximum of two feet intervals with insulated clamps.
- All exposed terminals and wiring shall be protected from the elements using sealed terminals or heat shrink where necessary. Exposed wires will be wrapped or loomed in corrosion/moisture-resistant material.

- Must be continuous wiring with OEM type pin connectors at harness connections, **butt connectors are not allowed.**

#### **MISCELLANEOUS TECHNICAL SPECIFICATIONS:**

1. There shall be no sharp corners on the unit. All corners shall be slightly rounded and filed smooth.
2. All weld joints shall have been cleaned, primed, be free of slag intrusions, undercut, roll, blow holes, craters and porosity.
  - Welds shall be properly fused, of ample penetration and smoothly finished on exposed surfaces.
  - Sheet metal fit-up must be properly executed and concealed by a finish-coat of paint.
  - Finish and all glass must be free of any defects due to welding, welding slag, heat, warpage, or assembly damage.
3. All materials installed shall be new and free of rust.
4. No wires shall be visible on the exterior or interior of the unit.

#### **DELIVERY:**

Maximum of 120 calendar days from date of the buyers purchase order. Pre-delivery servicing and adjustments: prior to acceptance by the purchaser, the vendor shall service and adjust each vehicle for operation. This process shall include but not be limited to the following:

1. Headlights properly aligned
2. Engine Tuned
3. All accessories properly adjusted
4. Electrical, braking and suspension systems inspected
5. Battery Charged
6. Front-end alignment checked (Must have documentation before and after)
7. All wheels balanced, including spare
8. All lubricants checked
9. Cooling system serviced with permanent type anti-freeze and summer coolant for minus 20 degrees F (-28.888C).
10. Warranty papers and owner's guide

11. Exterior and interior cleaned and washed
12. Must have a full tank of fuel when delivered
13. A 30-day Temporary Tag must be delivered with each vehicle.

**ALTOONA TESTING:**

Bid must include a copy of Altoona Test Report for this vehicle if applicable.

**VEHICLE TESTING**

Certification shall be provided that in accordance with 49 CFR part 665, Bus Testing, the vehicle either does not need to be tested (with justification specified for exemption) or has been tested at the bus testing facility and a test report is included.

**INFORMATION TO BE FURNISHED WITH EACH VEHICLE**

**MANUALS:** Must include OEM Repair service manuals and wiring diagram manual for the chassis. And as built wiring diagram and parts manual for body and for all auxiliary equipment.

1. Maintenance and inspection schedule incorporating the required maintenance and inspection of the basic vehicle and its sub-systems.
2. Operator's manual for vehicle and all add-on equipment.
3. Warranty papers for chassis, body, and additional equipment.

**PRE-AWARD AUDIT:**

A Pre-Award Audit shall be conducted to determine if the bid proposal specifications. The bidder shall submit documents, which include certification of the manufacturer's compliance with the Federal Transit Administration (FTA) Pre-Award Buy America Audit Requirements. The document submitted shall include the following information for each major component used on vehicle bid:

1. Name and address of each supplier.
2. Cost of each major component and subcomponent. In order to protect proprietary information, the document may reflect the percentage of total cost each item represents instead of the actual cost.



3. Country of origin of each major component and subcomponent.
  4. Name and address of company where final assembly occurs.
  5. Cost of final assembly
  6. Signature of authorized representative of vehicle manufacturer.
- Once the preceding steps have been completed, the contract shall be awarded.

#### **POST- DELIVERY AUDIT:**

A Post Delivery Audit of the vehicle(s) shall be conducted at the purchaser's facility, to determine that the completed vehicle(s) meets specifications. Once this process has been satisfactorily completed, the vehicle(s) shall be considered acceptable.

#### **ACCESSIBILITY REQUIREMENTS:**

When submitting a bid for an accessible vehicle for the disabled, the vendor shall provide a list of the vehicle related equipment illustrating the component cost and related installation charges. The purpose of this list is to reflect an accurate cost for those vehicle related items, which are required to make the vehicle accessible to the disabled.

**Total Bid Price Per Vehicle \$47,369.00**

#### **OPTIONAL ITEMS**

Must be installed by vendor or factory before delivery

The following options shall receive separate pricing as part of the bid submission:

**CNG:** **Option Price:** \$10,049.50

Unique CNG fuel system option designed and factory-installed, not an aftermarket conversion.

- Estimated 290-mile CNG range (which includes a 40-mile low-level indicator).

- Three Type-3 CNG tanks integrated seamlessly into the vehicle design and factory-installed.
- 21.1 Gasoline Gallon Equivalent (GGE).

System shall be CARB and EPA certified, OBDII compliant, and fully integrated into the OEM powertrain control system. No additional control module will be accepted.

1. Closed-loop fuel control
2. Sequential fuel injection (SFI)
3. Optimized ignition timing
4. Must maintain original fault codes (DTCs)
5. Diagnostics accessed through DLC using original scan tool or any generic OBD-II scanner
6. CNG system shall be covered by 3 year/50,000 mile warranty and cannot void the OEM powertrain warranty.
7. The Minimum CNG Type III tank with a capacity of 21 Gasoline Gallon Equivalent. (gge)

**POWER RAMP:**

**Option Price:** \$2,121.00

- Telescoping Power Ramp (meets ADA/CSA guidelines).
- Anti-Slip Ramp Surface.
- Two deployment settings: 4.4:1 Short Deploy Slope & 6.0:1 Long Deploy Slope.
- Ramp Lighting.

**TWO-WAY RADIO SYSTEM: UHF:** **Option Price:** \$1,199.88

**ICOM F6021 UHF two-way Radio System with a PCTELMUF4505 UHF antenna and coax or approved equal.**

- Antenna shall be mounted on Roof.
- Radio must be mounted in an easy accessible location for the driver.

- Radio must be programmed with the correct Frequencies and the antenna tuned for the agency issuing this purchase.

**TWO-WAY RADIO SYSTEM:**      **Option Price:** \$1,182.71

**ICOM F5021 VHF two-way Radio System with a PCTEL MHB5800 VHF antenna and coax or approved equal.**

- Antenna shall be mounted on Roof.
- Radio must be mounted in an easy accessible location for the driver.
- Radio must be programmed with the correct Frequencies and the antenna tuned for the agency issuing this purchase.

**TWO-WAY RADIO SYSTEM:**      **Option Price:** \$1,298.86

**Kenwood TK-980 800 mhz two-way Radio System with a PCTEL MUF8003 antenna and coax or approved equal.**

- Antenna shall be mounted on Roof.
- Radio must be mounted in an easy accessible location for the driver.
- Radio must be programmed with the correct Frequencies and the antenna tuned for agency issuing this purchase.

**FOLDING JUMP SEAT:**      **Option Price:** \$519.14

**Rear facing folding jump seat behind driver's seat.**

**BID EXECPTIONS:**

Bidder must list any exceptions here to be used as a part of the bid evaluation and analysis. Please list the roman numerical on the standard specs or the number for the options when listing any bid exceptions.

**Additional Options to Consider:**

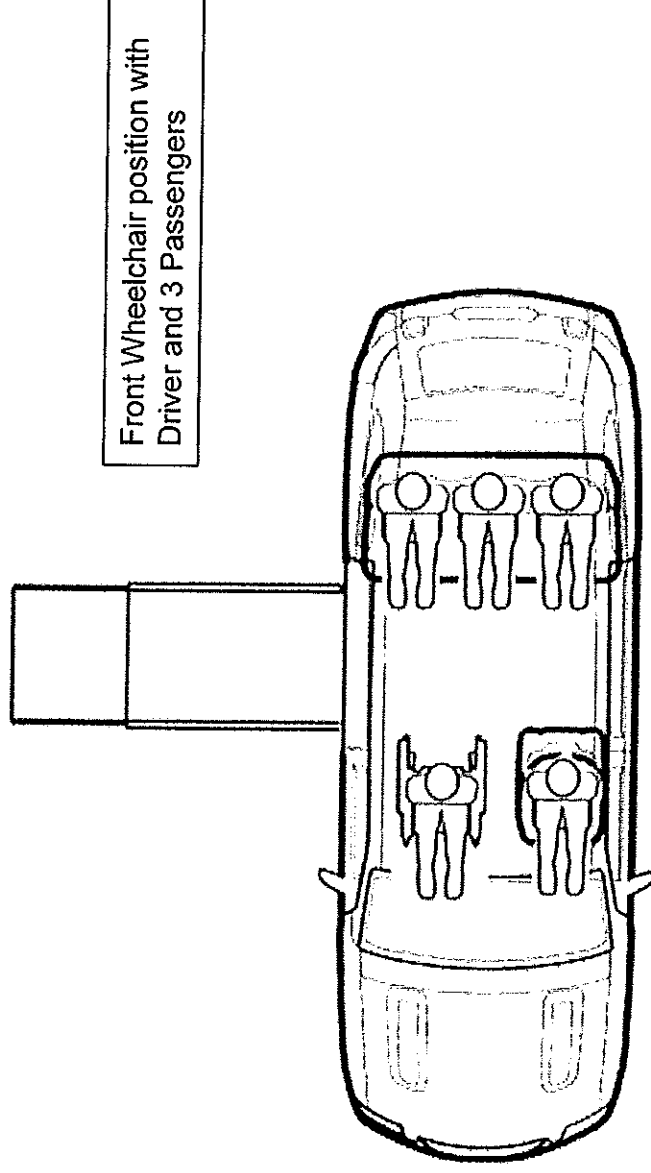
**\* DCS Software & Setup     \$1,969.50**

**\* Vehicle Diagnostic Tool & Software     \$1,310.98**

**VPGSI System     Monthly Fees will apply to the above options and this is the responsibility of the End User**

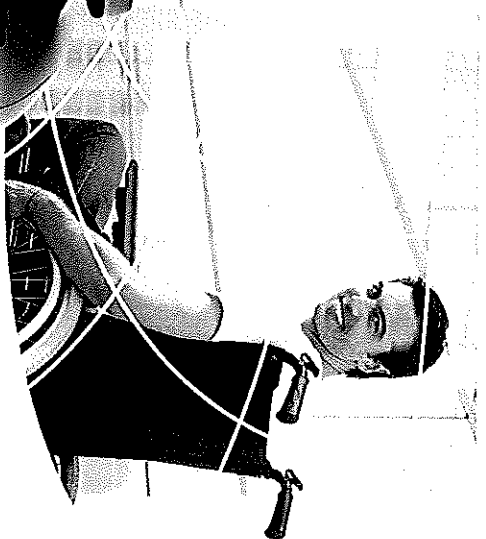
**\* These are one time cost to the agency.**

# Layout of Wheelchair Position



MV-1

Introducing the all new MV-1.

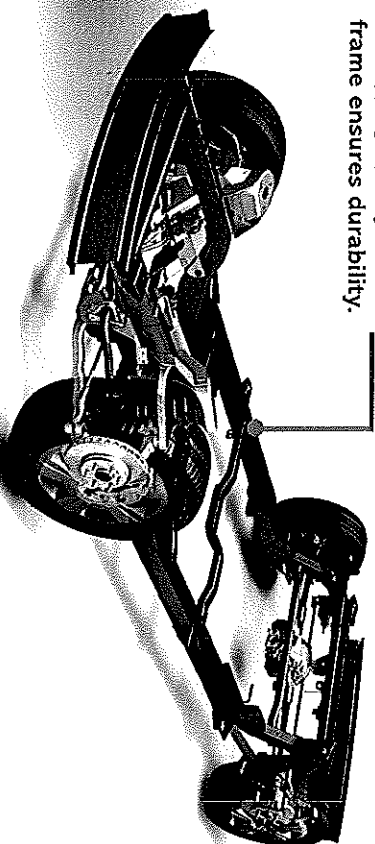


**VP-5**  
MADE IN THE U.S.A.  
vpautos.com

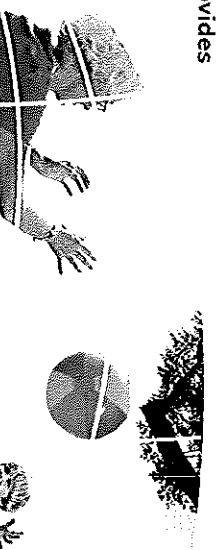
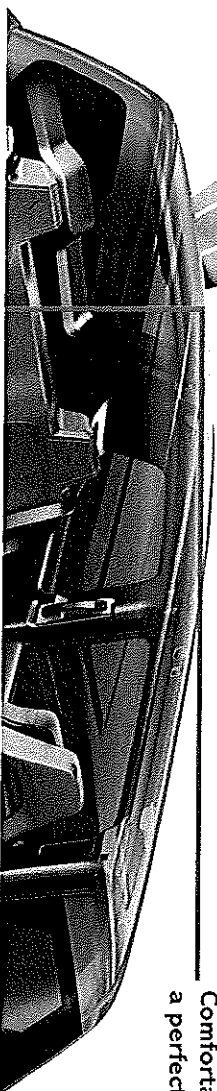
# Built for you from the ground up.

Headquartered in South Florida, The Vehicle Production Group LLC (VPG) is proud to introduce the new MV-1. The MV-1 is the first mobility vehicle that was designed from the ground up for wheelchair accessibility and will be proudly built in America. The MV-1 comes equipped with a deployable integrated ramp for quick and easy passenger access, and has a spacious interior that can accommodate up to six occupants, with the optional jumpseat. The MV-1 is the only factory-built vehicle that meets or exceeds the guidelines of the Americans with Disabilities Act (ADA). The extremely versatile MV-1 will be built at the high-quality assembly plant at AM General LLC in Mishawaka, Indiana. With production facilities that are among the most cutting-edge in the world, you can be assured the MV-1 is a world-class vehicle.

Sturdy, rigid, fully boxed frame ensures durability.



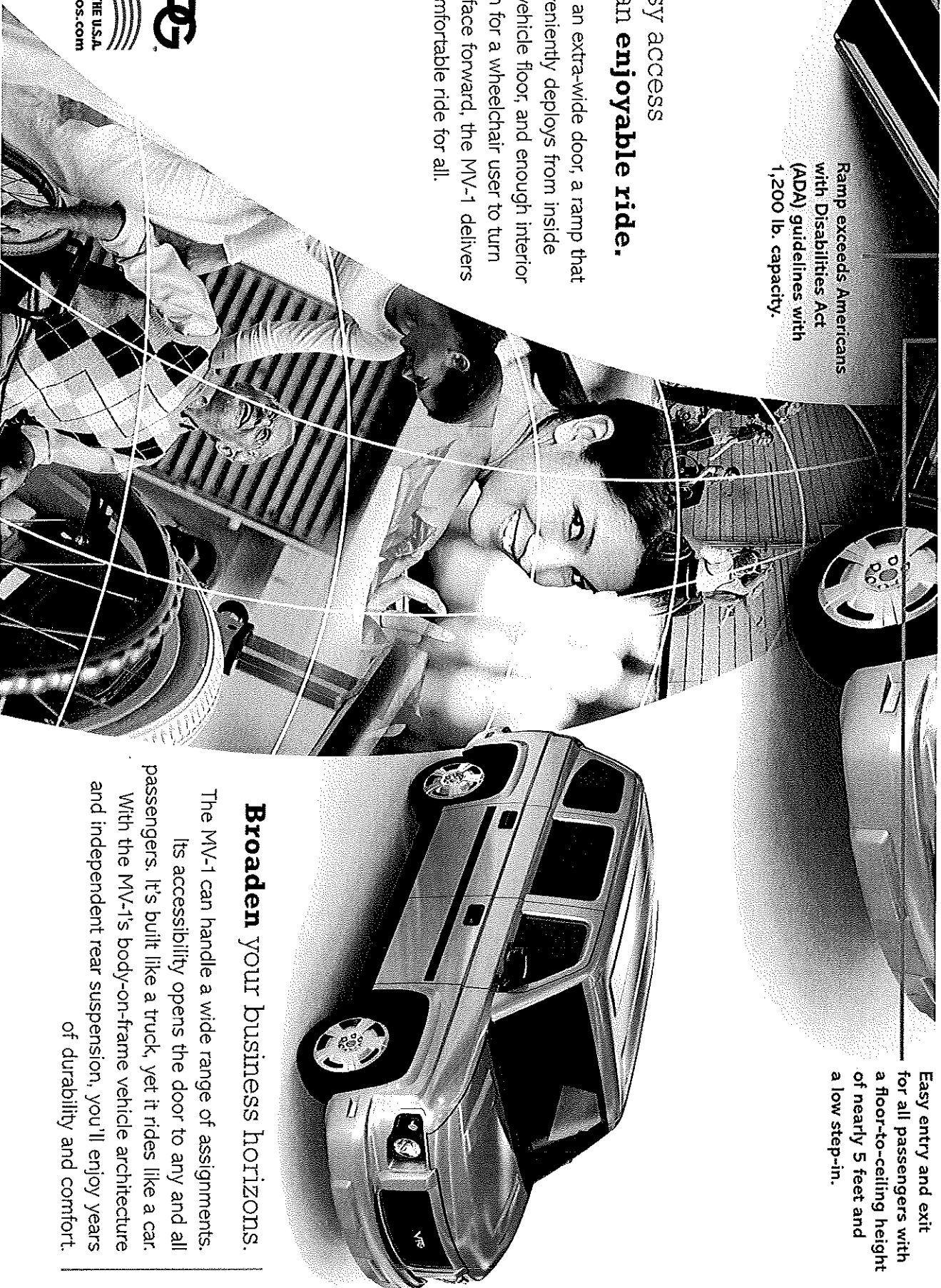
Comfortable rear seat provides a perfect fit for everyone.



Ramp exceeds Americans  
with Disabilities Act  
(ADA) guidelines with  
1,200 lb. capacity.

## Easy access to an **enjoyable ride.**

With an extra-wide door, a ramp that conveniently deploys from inside the vehicle floor, and enough interior room for a wheelchair user to turn and face forward, the MV-1 delivers a comfortable ride for all.



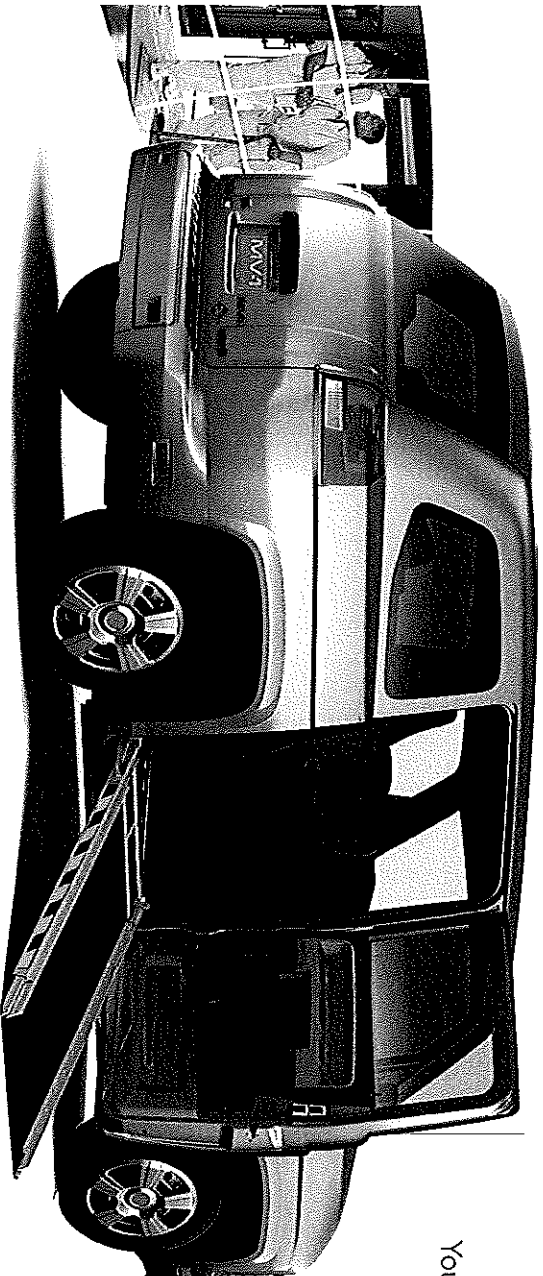
Easy entry and exit  
for all passengers with  
a floor-to-ceiling height  
of nearly 5 feet and  
a low step-in.

## **Broaden** your business horizons.

The MV-1 can handle a wide range of assignments. Its accessibility opens the door to any and all passengers. It's built like a truck, yet it rides like a car. With the MV-1's body-on-frame vehicle architecture and independent rear suspension, you'll enjoy years of durability and comfort.

**VPG**  
MADE IN THE U.S.A.  
vpgautos.com





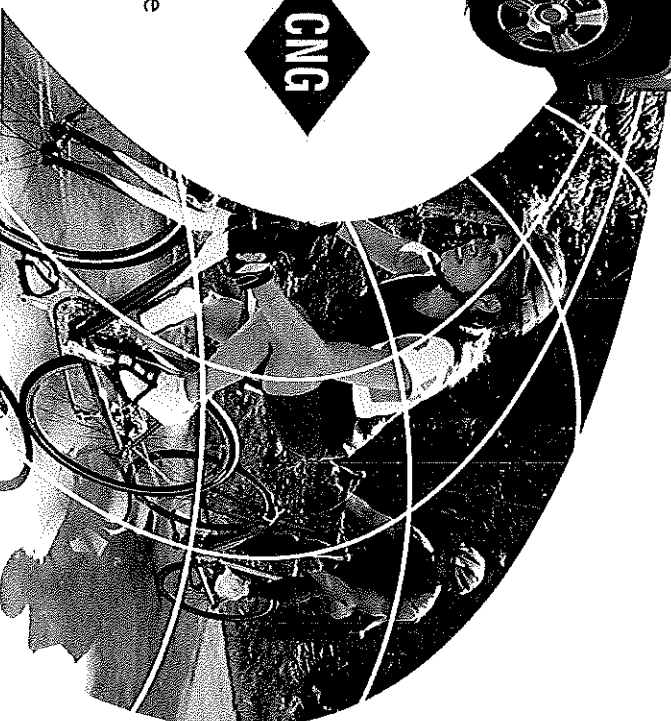
## A powertrain that is **empowering.**

You need an engine that can get the job done, and the MV-1 has what it takes. Featuring a Ford 4.6L V8 engine with a Ford electronic 4-speed transmission, the MV-1 can handle whatever the road has in store.

## Have the option to **go green.**

The MV-1 is the only vehicle in its class with an available Original Equipment Manufacturer (OEM) engineered, assembled, and factory-installed Compressed Natural Gas (CNG) fuel system option. Because it's factory-installed, the MV-1 with the CNG option ensures the same durability, reliability, and quality that fleets demand from gasoline-powered vehicles, while reducing operating expenses since CNG is significantly less expensive than gasoline. Since natural gas is primarily a domestic fuel source, the 290-mile range CNG MV-1 is good for the environment and good for America. Now, everyone can breathe easier.


**CNG**



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Corporate Headquarters:  
Vehicle Production Group | 1395 Brickell Avenue, Suite 630 | Miami, FL 33131  
Contact Us: 877-MV1-FORU (877-681-3678) or Email Us: [info@vpautos.com](mailto:info@vpautos.com)





Comfortable rear seat provides  
a perfect fit for everyone.

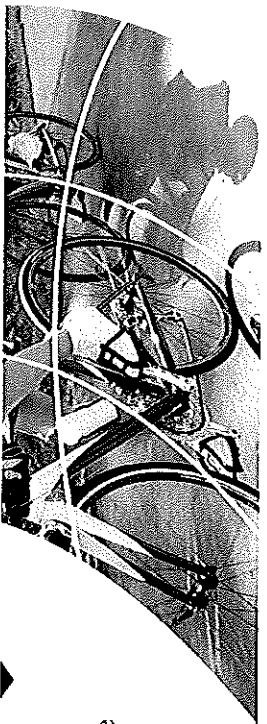
Anti-slip floor and  
ramp surfaces provide  
great traction and  
a safer entry and exit.

Easy entry and exit  
for all passengers with  
a floor-to-ceiling height  
of nearly 5 feet and  
a low step-in.

Ramp exceeds Americans  
with Disabilities Act  
(ADA) guidelines with  
1,200 lb. capacity.

Easy access  
to an **enjoyable ride.**

With an extra-wide door, a ramp that

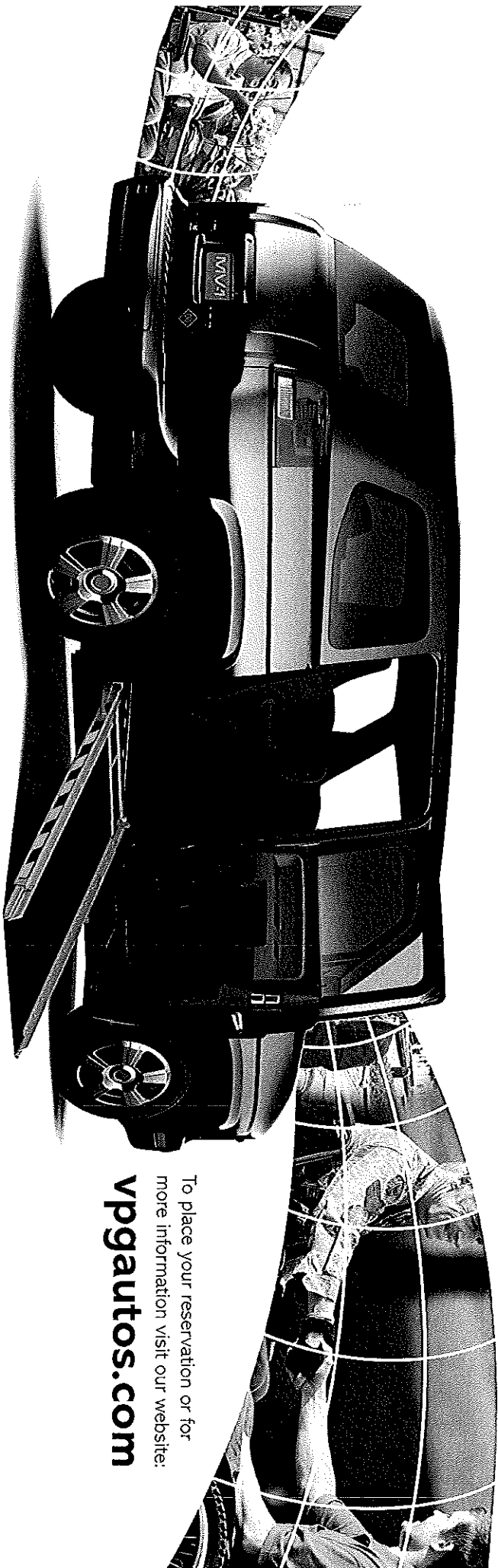


Natural Gas (CNG) fuel system option. Because it's factory-installed, the MV-1 with the CNG option ensures the same durability, reliability, and quality that fleets demand from gasoline-powered vehicles, while reducing operating expenses since CNG is significantly less expensive than gasoline. Since natural gas is primarily a domestic fuel source, the 290-mile range CNG MV-1 is good for the environment and good for America. Now, everyone can breathe easier.

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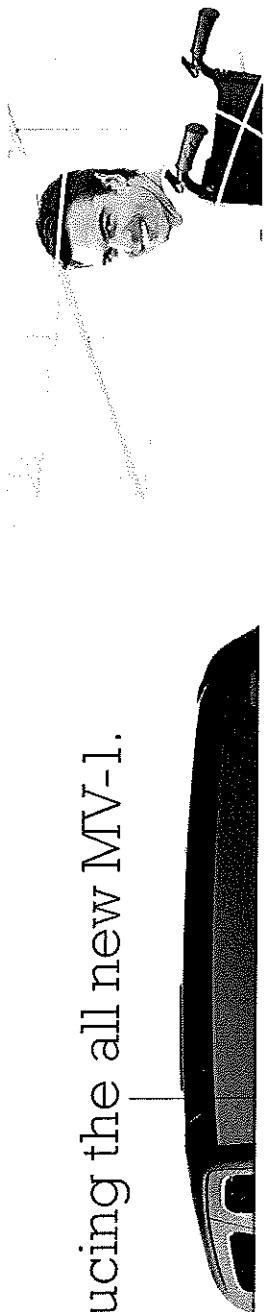


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more information visit our website:  
**[vpautos.com](http://vpautos.com)**

**[MV-1]** | Introducing the all new MV-1.





Introducing the  
all new MV-1.



## Inspired by you.

The MV-1® is the only purpose-built vehicle that was designed from the ground up for wheelchair accessibility. It already meets or exceeds the guidelines of the Americans with Disabilities Act (ADA) from the moment it rolls off the assembly line. With an extra-wide door and a ramp that deploys from within the floor, it is incredibly accessible. Its spacious interior features an open area next to the driver, perfect for transporting just about anything. Designed for wheelchair accessibility, yet well-suited for a variety of uses, you'll be amazed at what the MV-1 can do for you. Whatever you need to do, wherever you need to go, one vehicle can handle it all: the MV-1.

## The **MV-1**: Built for everyone.

- Easy entry and exit for all passengers and cargo thanks to a low step-in and floor-to-ceiling height of nearly 5 feet.
- Convenient loading with side entry through a 56" high and 36" extra wide door.
- Large rear bench seat provides a perfect fit for everyone.
- Ideal vehicle size, configuration and maneuverability for efficient transportation.
- Comfortable commercial driver's seat to reduce driver fatigue.
- Power windows, power mirrors, and other convenient options come standard.
- 24-gallon gasoline tank provides the MV-1 with an estimated 350-mile range.
- Optional rear-facing jump seat is available to allow for the maximum amount of passengers per trip.
- Ramp deploys from within vehicle floor and has an accommodating weight capacity of up to 1,200 lbs.
- Ramp lighting and anti-slip floor covering provide a valuable safety feature for secure accessibility.



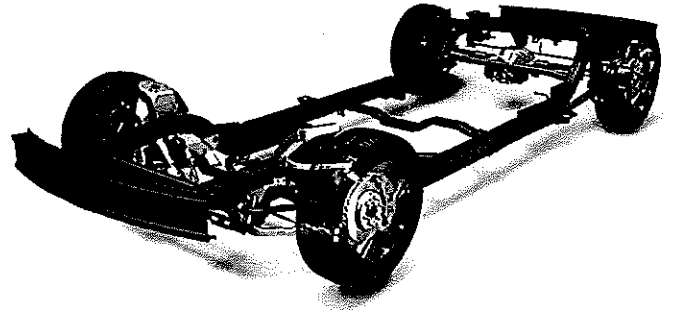
To build your MV-1 today visit  
**[vpgautos.com](http://vpgautos.com)**



## Durability & Performance.

- Body-on-frame design: the MV-1's body mounts to the frame to create a rigid structure that supports the drivetrain.
- Fully boxed and tubed supportive cross members provide additional frame stiffness and durability.
- Built like a truck, yet rides like a car:
  - A de Dion rear suspension with steel-leaf springs and air shocks to deliver an extremely comfortable ride for all passengers.
  - Front Short Long Arm (SLA) suspension provides a tight turning radius and rack and pinion steering.
- Four wheel disc brakes designed with large rotors for improved lining life and the ability to handle the best-in-class gross vehicle weight (GVW) of 6,600 lbs.
- Anti-lock Brake System (ABS) and traction control come standard.

- Electronic Stability Control (ESC), including an anti-roll function, which provides increased safety.
- All-season tires are a standard feature.
- Ford 4.6L V8 Engine.
- Ford Electronic 4-Speed Automatic Transmission with Overdrive.
- The frame is coated with a rust inhibitor to increase longevity of the vehicle.



## Have the option to go green.

- Unique factory-installed Compressed Natural Gas (CNG) fuel system option is not an aftermarket conversion.
- Estimated 290-mile CNG range (which includes a 40-mile low level indicator).

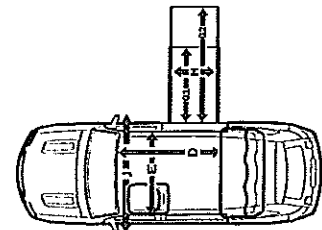
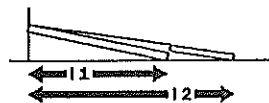
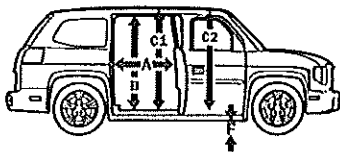
- Three Type-3 CNG tanks integrated seamlessly into the vehicle design and factory-installed.
- Best-in-class cargo volume (29.1 cubic feet).
- 21.1 Gasoline Gallon Equivalent (GGE).



## MV-1 Vehicle Specifications.

Dimension	English	Metric
Wheelbase	122 in	3,099 mm
Length	205 in	5,207 mm
Height	75 in	1,905 mm
Width	79.4 in	2,017 mm
Curb Weight - Gasoline	5,055 lbs	2,293 kg
Curb Weight - CNG	5,312 lbs	2,409 kg
GVWR	6,600 lbs	2,994 kg
Turning Circle	42.8 ft	13,045 mm
Cargo Volume Index-Gasoline	36.4 ft <sup>3</sup>	1,031 L
Cargo Volume Index-CNG	29.1 ft <sup>3</sup>	824 L
Access Door Opening Usable Width	A 36 in	914 mm
Access Door Opening Usable Height	B 56 in	1,422 mm
Interior Height at Rear Wheelchair Position	C1 59.5 in	1,511 mm

Dimension	English	Metric
Interior Height at Forward Wheelchair Position	C2 58.3 in	1,481 mm
Overall Interior Floor Length	D 81.5 in	2,070 mm
Interior Width at B-Pillars	E 64.5 in	1,638 mm
Vehicle Ground Clearance (minimum)	F 6 in	152 mm
Ramp extension-short deployment	G1 52.5 in	1,334 mm
Ramp extension-long deployment	G2 87 in	2,210 mm
Usable Ramp Width	H 30 in	762 mm
Ramp angle-short (manual)	I1 1:4.1 ratio	-
Ramp angle-short deployment (power)	I1 1:4.4 ratio	-
Ramp angle-long deployment (power)	I2 1:6 ratio	-
Mirror to Mirror Width	J 79.69 in	2,024 mm
Mirror to Mirror Width (folded)	71.73 in	1,822 mm



## Made in the U.S.A.

The MV-1 is assembled by AM General LLC in their high-quality assembly facility in Mishawaka, Indiana, and meets the "Buy America Act" requirements for domestic content required for funding by the Federal Transit Administration. The MV-1 is a unique mobility solution for the 21<sup>st</sup> century built right here in the U.S.A.

To build your MV-1 today, visit **vpgautos.com.**

Corporate Headquarters: Vehicle Production Group | 1395 Brickell Avenue, Suite 630 | Miami, FL 33131

Contact Us: 877-MV1-FORU (877-681-3678) or Email Us: [Info@vpgautos.com](mailto:Info@vpgautos.com)

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# MV-1 Features

## Mobility Transportation with a purpose.

Whether you're a member of the disability community or you service the disability community, the *MV-1*, the first true mobility vehicle, was created with your specific needs in mind. After all, it was your vital input that helped us build it. Every part, every design element, every piece of engineering points toward taking you from place to place with comfort, ease and dignity. Get to know the one and only mobility transportation solution that rolls right off the assembly line ready for wheelchair accessibility that meets or exceeds the Americans with Disabilities Act (ADA) guidelines by examining its features in greater detail.

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- Accessibility
- Durability
- Green Option
- Safety
- Standard Features
- Vehicle Specs
- Warranty

## MV-1 Base Model: Standard Features

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### Power and Performance

- Ford 4.6L 2V EFI V8 Engine.
- Ford Electronic 4-Speed Automatic Transmission with Overdrive.
- Rear Wheel Drive with 3.45 Axle Ratio.
- 24-Gallon Gasoline Tank (est. 350-mile range).
- 17-Inch Steel Wheels with Center Wheel Cover.

### Accessibility (meets ADA/CSA guidelines)

- Anti-Slip Floor Surface.
- Q-Straint® Wheelchair Restraint Track System.
- Manually Operated Ramp.
- Anti-Slip Ramp Surface.
- 4.1:1 Slope.
- Ramp Lighting.
- Multiple Grab Handles.

## Comfort and Convenience

- Rear Self-Leveling Air Suspension System.
- Gray Leatherette Seating Fabric.
- 6-Way Adjustable Commercial Driver's Seat.
- Power Windows.
- Power Locks.
- Power Adjustable Side-View Mirrors.
- Tinted Windows.
- Auxiliary Power Outlets: Rear (2) and Front (2).
- Cup Holders: Rear (2) and Front (2).
- Rear Area Heater and Air Conditioning Outlet.
- Spacious Passenger Seating.
- Best-in-Class 36.4-Cu. Ft. Luggage Capacity.
- Best-in-Class 42.8-Foot Turning Circle.

## Safety

- Electronic Stability Control (ESC).
- Traction Control.
- Anti-Lock Braking System (ABS).
- Power-Assisted 4-Wheel Disc Brakes.
- Driver-Side Supplemental Restraint Air Bag System.
- Childseat Anchors (2) and Tethers (3).
- P235/65 R17 All-Season Tires.
- Tire Pressure Monitor System.
- Daytime Running Lights.
- Passkey Theft Deterrent System.
- High-Visibility LED Rear Brake.

## Exterior Colors

- Jet Black.
- Sterling Silver.
- Cherry Red.
- Midnight Blue.
- Arctic White.

## MV-1 Base Model: Optional Equipment

- Factory-Installed Compressed Natural Gas System.
  - Ford CNG 4.6L 2V EFI V8 Engine.
  - 21.1 Gasoline Gallon Equivalent (GGE) (est. 290-mile range).
- Rear-Facing Jump Seat.
- Telescoping Power Ramp (meets ADA/CSA guidelines).
  - Anti-Slip Ramp Surface.
  - Two deployment settings to fit your needs:
    - 4.4:1 Short Deploy Slope.

- 6.0:1 Long Deploy Slope.
- Ramp Lighting.
- Driver's Convenience Package.
  - Rear Window Wiper.
  - AM/FM Radio with CD Player.
  - Cruise Control.
  - Center Console with Additional Cup Holder and Auxiliary Power Outlet.
- Canada Package (for vehicles registered in Canada only).
  - Instrument Panel Cluster in Kilometers.
  - Dual Language Labeling: English and French.

## MV-1 Deluxe Model: Standard Features

Includes all standard features on the MV-1 Base Model, plus:

- Telescoping Power Ramp (meets ADA/CSA guidelines).
  - Anti-Slip Ramp Surface.
  - Two deployment settings to fit your needs:
    - 4.4:1 Short Deploy Slope.
    - 6.0:1 Long Deploy Slope.
  - Ramp Lighting.
- Driver's Convenience Package.
  - Rear Window Wiper.
  - AM/FM Radio with CD Player.
  - Cruise Control.
  - Center Console with Additional Cup Holder and Auxiliary Power Outlet.
- 17-Inch Steel Wheels with Full Wheel Cover.
- Cargo Area Floor Trim.

## MV-1 Deluxe Model: Optional Equipment

- Factory-Installed Compressed Natural Gas System.
  - Ford CNG 4.6L 2V EFI V8 Engine.
  - 21.1 Gasoline Gallon Equivalent (GGE) (est. 290-mile range).
- Rear-Facing Jump Seat.
- Canada Package (for vehicles registered in Canada only).
  - Instrument Panel Cluster in Kilometers.
  - Dual Language Labeling: English and French.

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Meet the MV-1

[Features](#)

[Vehicle Applications](#)



The Vehicle Production Group LLC



Submittal

To

Oklahoma

For

VPG's Wheelchair Accessible Vehicle

The MV-1

January 16, 2012



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General Vehicle Layout

Vehicle Specifications

"Buy America Act" Certificate

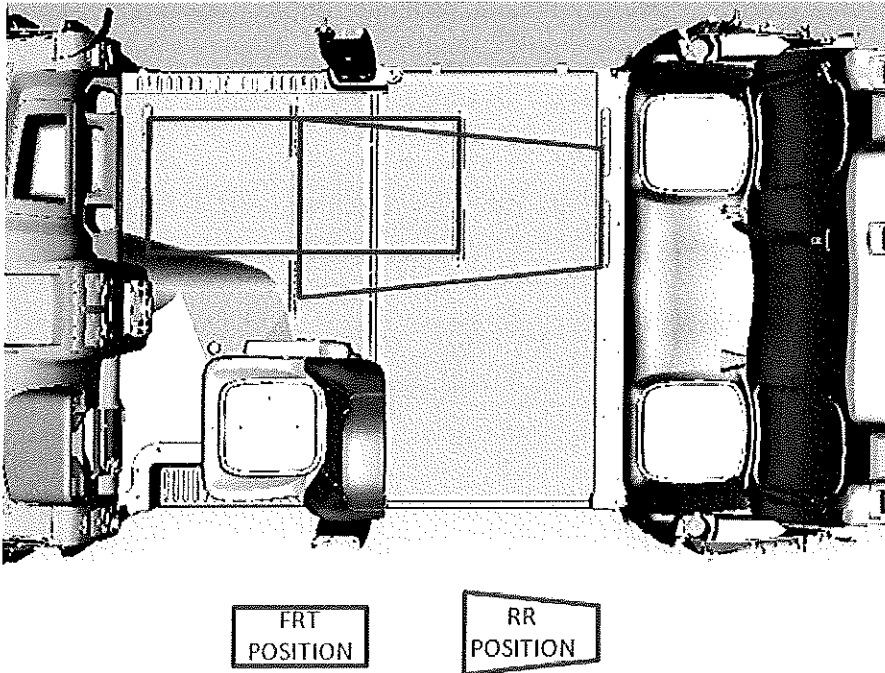
Analysis of Federal Requirements for Motor Vehicle Manufacturers

Altoona Test Exemption

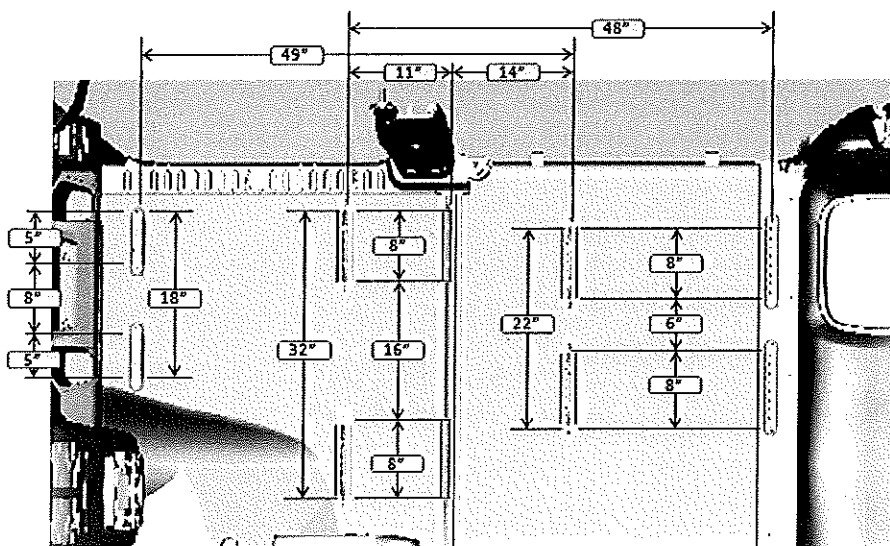


## General Vehicle Layout

### Wheelchair Positions

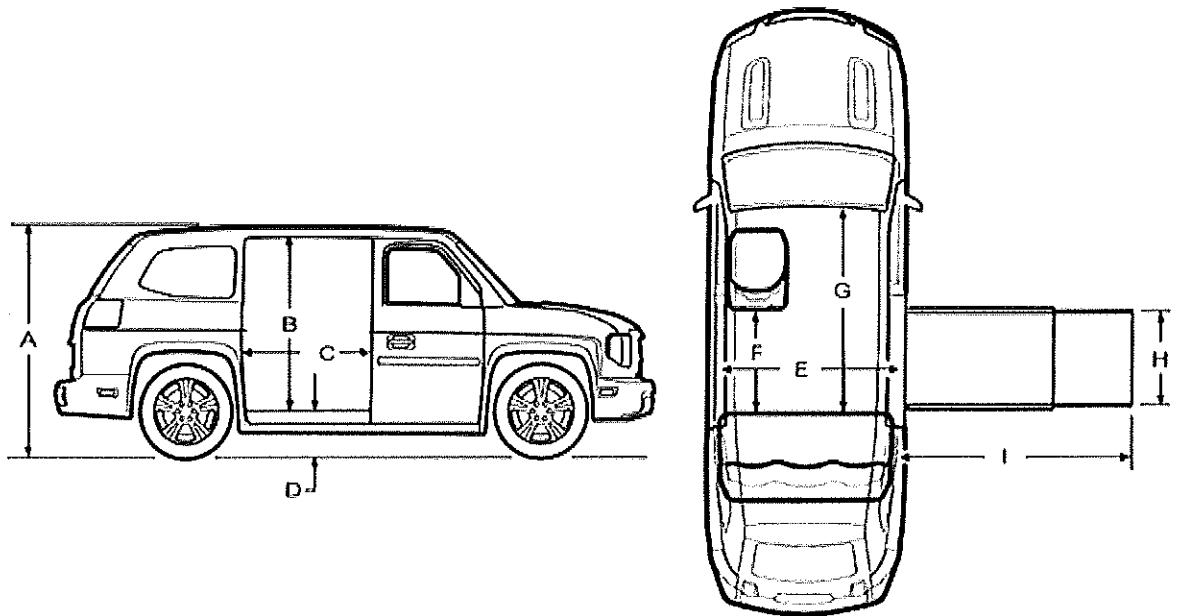


### Wheelchair Tie-Down Track Layout





## Vehicle Specifications



ITEM	DESCRIPTION	DIMENSION
A	OVERALL HEIGHT OF VEHICLE	75"
B	DOOR OPENING USABLE HEIGHT	56"
C	DOOR OPENING USABLE WIDTH	36"
D	HEIGHT OF FLOOR TO GROUND	15"
E	INTERIOR USABLE INTERIOR WIDTH MAXIMUM	64"
F	INTERIOR USABLE INTERIOR LENGTH MAXIMUM	81.5"
G	RAMP LENGTH	52.5" / 87"
H	WIDTH OF USABLE RAMP	30"
I	LEG ROOM BEHIND DRIVER SEAT	37"



## "Buy America Act" Certificate



### The Vehicle Production Group LLC Certificate of Compliance with Buy America Rolling Stock Requirements

Company: VPG Automotive  
Email: [mdemars@vpautos.com](mailto:mdemars@vpautos.com)  
Phone: 248-284-1650

Attn: Matt DeMars

The Vehicle Production Group LLC, manufacturer of the MV-1 para-transit vehicle, in conjunction with the Buy America Certification requires all suppliers to indicate the percent of their cost per vehicle of component(s) produced as deemed U.S. domestic origin. *Cost of component(s) is defined as the cost of labor, material, allowance for profit, administrative and overhead cost attributable to those component(s) under required State and Federal accounting principals and requirements.*

Per Vehicle			Component Cost
Part Number	Description	Qty	U.S. % Origin
MV1	GAS Engine	589	72.80
MV1	CNG Engine	613	73.96

We The Vehicle Production Group LLC hereby identify that the percentage of costs and components supplied to The Vehicle Production Group LLC, as supplied by our Suppliers and specified above, are of U.S. origin.

Location of Final Assembly: Mishawaka, IN

The bidder or offeror hereby certifies that it will comply with the requirements of 49 U.S.C. 5323(j), and the applicable regulations of 49 C.F.R. 661.11.

Authorizing Signature (Officer of Company)

  
Matthew DeMars

President & COO  
Title

August 1, 2011  
Date



# “Buy America Act” Certificate continued



The Vehicle Production Group LLC  
Buy America Certification Summary

Company	Qty Unique Parts	Component Cost - GAS	Qty Unique Parts	Component Cost - CNG
		U.S. % Origin		U.S. % Origin CNG
ABC Group Tech Centre	1	6.72%	1	6.72%
Adronics	2	99.16%	2	99.16%
All State Fastener	30	62.67%	30	62.67%
American Axle	1	17.10%	1	17.10%
Alumalloy Metalcasting Co	1	98.24%	1	98.24%
Android	5	71.93%	6	60.63%
ASC	2	89.66%	2	89.66%
Auto Temp Inc.	6	99.84%	6	99.84%
Avery Dennison	4	100.00%	4	100.00%
Bosal Industries - Georgia	2	100.00%	2	100.00%
Bowles Fluidics	3	76.69%	3	76.69%
BRC Rubber & Plastics	1	100.00%	1	100.00%
BWI	10	22.25%	10	22.25%
Carling Technologies, Inc	2	53.00%	2	53.00%
Co-Ex-Tec	14	18.59%	14	18.59%
Continental Tire	1	100.00%	1	100.00%
Cooper Standard Automotive	16	87.24%	16	87.24%
Coupled Products, LLC	5	51.64%	5	51.64%
Delphi Automotive Systems	2	36.49%	2	36.49%
Detmar Corporation	1	100.00%	1	100.00%
Lapeer Plating & Plastics	2	100.00%	2	100.00%
DT Manufacturing			1	100.00%
Evans Tempcon, Inc.	2	76.58%	2	76.58%
Exide	1	99.84%	1	99.84%
Flex-N-Gate Ventra - Angola	2	95.76%	2	95.76%
Flex-N-Gate Ventramex	4	84.00%	4	84.00%
Fluid Routing Solutions	1	100.00%	1	100.00%
Ford Component Sales	2	70.95%	2	70.70%
Vibracoustics	1	100.00%	1	100.00%
GDC, Inc	3	100.00%	5	100.00%
General Fasteners Co	71	71.95%	71	71.95%
GFI Controls	1	16.79%	1	16.79%
GKN Driveline	2	22.08%	2	22.08%
Global Automotive Systems			2	100.00%
Gramag Truck Interior Systems	3	57.93%	3	57.93%
Hamsar Diversco Inc	4	0.00%	4	0.00%
Harco Mfg	4	100.00%	4	100.00%
Hayes Lemmerz International	1	48.66%	1	48.66%
Henkel	10	100.00%	10	100.00%
Hennessy Industries	0	100.00%	0	100.00%
Hi-Lex America, Inc	4	91.19%	4	91.19%
Huntington Foam LLC	2	100.00%	2	100.00%
HS Die & Engineering Sales	1	100.00%	1	100.00%
Hydro Aluminum	1	100.00%	1	100.00%
Industrial Machine Products	12	100.00%	12	100.00%
Inteva Products LLC	48	65.69%	48	65.69%
Iroquois Industries Inc.	39	100.00%	39	100.00%
Jyco Sealing Technologies	7	64.40%	7	64.40%
Kenona Industries, Inc.	5	100.00%	5	100.00%



# "Buy America Act" Certificate continued



The Vehicle Production Group LLC  
Buy America Certification Summary

Company	Qty Unique Parts	Component Cost - GAS	Qty Unique Parts	Component Cost - CNG
		U.S. % Origin		U.S. % Origin CNG
Kongsberg Automotive	1	48.62%	1	48.62%
Llink Technologies	3	100.00%	3	100.00%
Lydall Thermal Acoustical	5	100.00%	5	100.00%
MacArthur Corp	9	100.00%	12	100.00%
Magna Closures	2	4.30%	2	4.30%
Magna Mirrors of America	1	100.00%	1	100.00%
MAP of Easton, Inc.	1	100.00%	1	100.00%
McCarthy Group (Pioneer)	6	100.00%	6	100.00%
McKechnie Vehicle Components	7	41.53%	7	41.53%
Michigan Rod Products	1	84.98%	1	84.98%
Nyloncraft	2	100.00%	2	100.00%
Ogihara America Corporation	16	100.00%	16	100.00%
Pana Pacific	3	8.00%	3	8.00%
Parker Hannifin (Mobile Climate Sys)	4	52.70%	4	52.70%
Parker Hannifin (Filtration & Sep)			2	100.00%
Paulstra	4	100.00%	4	100.00%
Pinnacle Plastic Products	14	100.00%	14	100.00%
Piston Group & Piston Automotive	1	84.04%	1	84.04%
Polycon Industries	5	33.87%	5	33.87%
Profile Manufacturing Inc	1	100.00%	1	100.00%
Progressive Metal Mfg. Co.	85	100.00%	85	100.00%
Q'Straint	6	93.67%	6	93.67%
RCO Engineering, Inc	2	100.00%	2	100.00%
Roush Industries	6	91.74%	6	91.74%
Sanluis Rassini International	2	1.66%	2	1.66%
Seats Inc	1	100.00%	1	100.00%
Select Industries Corp.	2	100.00%	2	100.00%
SMR Australia	2	0.00%	2	0.00%
Spectra Premium Industries	1	8.05%		
Sprague Devices (Comm Veh Group)	5	70.30%	5	70.30%
SSP Fittings			10	70.30%
St Clair Technologies, Inc	14	73.60%	15	73.52%
Stabilus	2	18.24%	2	18.24%
Stoneridge Electronics NA	7	7.15%	7	7.15%
Strattec Power Access LLC	1	87.98%	1	87.98%
Structural Composites Industries			3	81.55%
TEK Automotive	1	0.00%	1	0.00%
Tenneco Automotive	1	82.41%	1	82.41%
TRW Engineered Fasteners	1	100.00%	1	100.00%
TRW Occupant Safety	12	0.00%	12	0.00%
Unique Fabricating, Inc	5	99.08%	5	99.08%
Vehicle Performance Systems	3	0.00%	3	0.00%
Wright Tool Co	1	0.00%	1	0.00%
Yarema Die & Engineering	1	100.00%	1	100.00%
	589	72.80%	613	73.96%