



December 29, 1999

Delivered by Fax and U.S. Mail

Ms. Carson P. Frazier
Division of Motor Vehicles
Bureau of Vehicle Services
4802 Sheboygan Ave.
P.O. Box 7909
Madison, WI 53707-7909

Senator Roger Breske
State Capital
P.O. Box 7882
Madison, WI 53707-7882

Representative David Brandemuehl
State Capital
P.O. Box 8952
Madison, WI 53708-8952

Dear Ms. Frazier, Senator Breske, & Representative Brandemuehl:

Thank you for informing me of SB 300 and AB 618 concerning Low Speed Vehicles. After a comprehensive review of the bills, I would ask you to consider Section 24. 346.94 (18) Low-Speed Vehicles on Roadway. Specifically, the use of Low Speed Vehicles on roadways with a speed limit of 25 or less miles per hour. As discussed in previous correspondence with you, your Department, and the Sponsor, establishing the statutory restriction of 25 mph roadways and allowing local jurisdictions to raise the limit to 35 mph roadways is completely contrary to all other states and the principle of "home rule".

Presently, California, Nevada, Arizona, Florida, North Dakota, and Hawaii have Low Speed Vehicle statutes that permit LSVs on roadways of 35 mph or less and authorizing local jurisdictions to restrict travel to lower speed limit roadways for public safety. Over 20 other states throughout the United States have allowed LSVs to be registered, titled, and license plated for use on public

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Bombardier Motor Corporation of America
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Sarasota, FL 34236
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Fax (941) 954-3341
rob.schuetz@recreation.bombardier.com


roadways by way of regulation without restrictions. The laws concerning the impeding of normal traffic flow will always prevail, no matter where the vehicle will be driven.

It is my desire that Wisconsin law makers take into consideration the safety standards that the National Highway Traffic Safety Administration has mandated for LSVs, the excellent safety record that exists for the thousands of LSVs that are currently in use throughout the U.S. on 35 mph roadways, and the common goal of all; to pass uniform legislation from state to state.

It is for these reasons that I ask you to amend both bills to allow Low Speed Vehicles to be used on Wisconsin roadways, with a speed limit of 35 miles per hour or less, and authorize each jurisdiction to determine the need to restrict that use to lower speed limit roadways, in the interest of public safety.

Please read the above into public record when considering the proposed bills.

Sincerely,



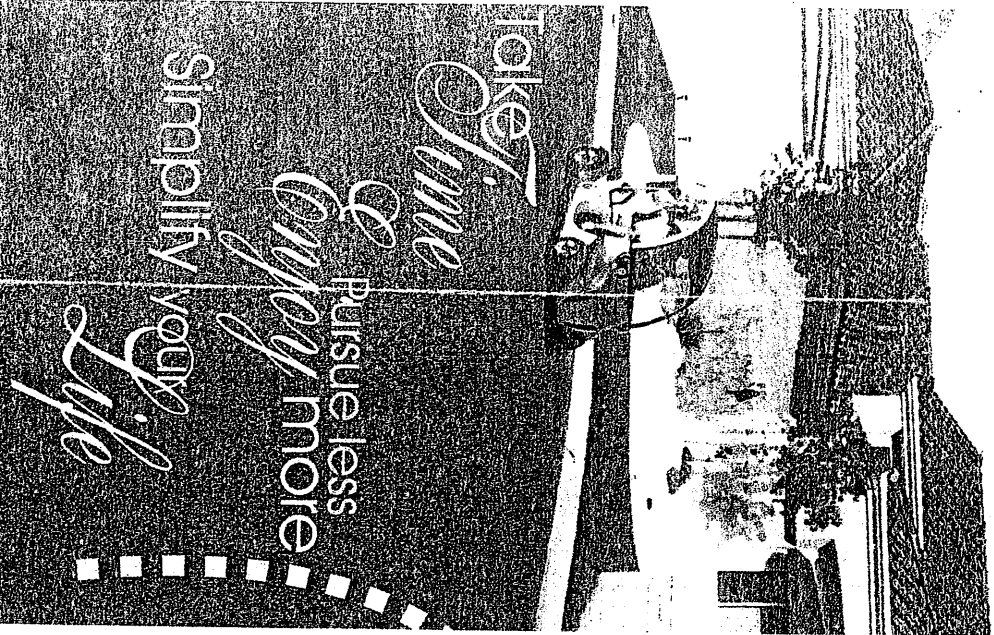
Rob Schuetz
Public Affairs/Government Relations
Bombardier Motor Corporation of America

Enclosure

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Take it

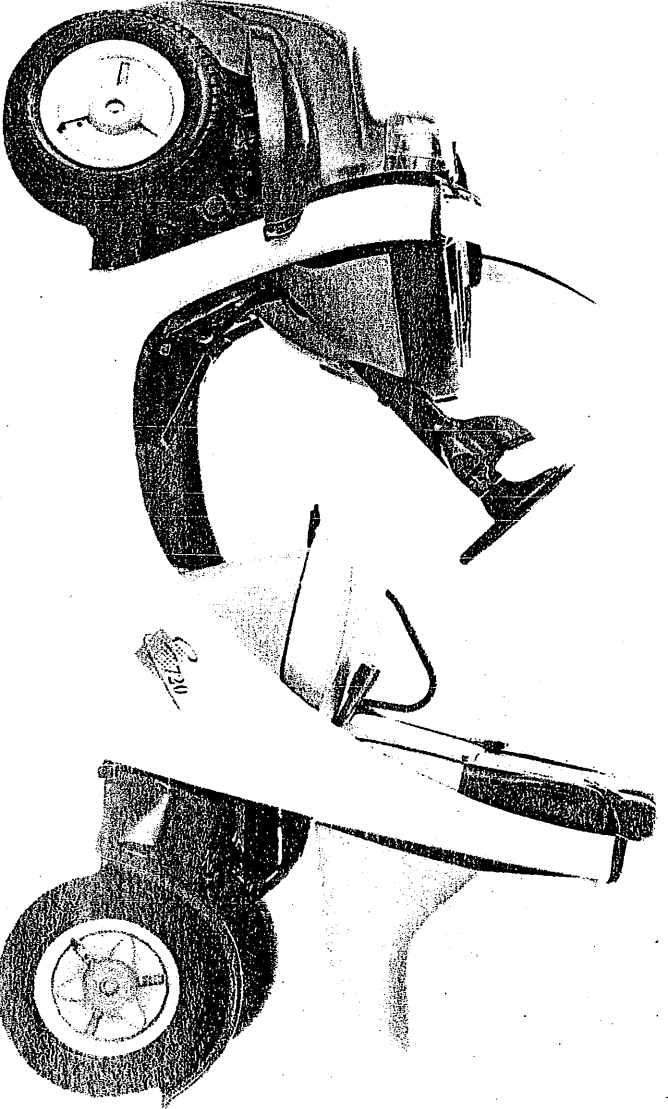
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West Bend
Whitewater
Wisconsin Rapids

Date: January 4, 2000

To: Honorable Members, Senate Committee on Insurance, Tourism,
Transportation and Corrections, and Assembly Committee on Transportation.

From: Ed Huck, executive director

Re: SB 300 and AB 618, low-speed vehicles

Members of the Wisconsin Alliance of Cities, meeting in West Bend in November, voted unanimously to oppose low-speed vehicle legislation that has since been introduced as Senate Bill 300 and Assembly Bill 618.

Our mayors and city managers are very concerned about the safety problems that would result from mixing low-speed vehicle traffic and conventional motor vehicle traffic on local streets and roads, even those with a speed limit of 25 mph or less.

The fact that communities could, by ordinance, further restrict the operation of low-speed vehicles did not win any support for the legislation. Instead of an opt-out provision, city leaders asked, why not make the decision to allow the operation of such vehicles entirely a local matter? "Why not an opt-in provision?" one mayor asked.

If you have any questions, please let us know.

CLASSIFIED Thursday

Thursday, December 30, 1999



TOM AND RAY
MAGLIOZZI
CLICK & CLACK
TALK CARS

Electric GEMs are popular with drivers



Knight Ridder photo

Global Electric MotorCars have caught the eye of environmentalists and others looking to reduce pollution. Above, clowns drive several of the vehicles during this year's Thanksgiving Day parade in Detroit.

The battery-powered cars can reach 25 mph

By Dan Shine
Knight Ridder Newspapers

Global Electric MotorCar

- **Base price:** \$7,695 two-seater; \$9,325 four-seater
- **Type:** electric vehicle
- **Standard equipment:** Rear brake lights and backup alarm, auto-style headlights, anchored three-point seat belts, windshield wiper and safety glass
- **Motor:** 72-volt shunt motor
- **Street speed:** 20 to 25 mph

It must have seemed like some sort of Pavlovian experiment. Every time Craig Walworth got up from his chair at his Grosse Pointe, Mich., neighborhood block party last summer, all the kids would stand through the day the scene was repeated. Walworth. Up stood the kids. The reason? The kids wanted a ride in Walworth's new car. "They would jump up every time I moved," he said. "They'd say, 'Are we going for another ride, Mr. Walworth?'"

Walworth hadn't purchased a purple Dodge Viper or some exotic sports import. What fascinated the kids was a vehicle that looks like a golf cart on steroids. It was a big hit at the party. Walworth gave rides to the kids into the night. The adults liked it as well.

"Everywhere I go and take them, people ask, 'What is it? How much does it cost?'" Walworth said. "People just get a kick out of them."

The cars, known as GEMs (Global Electric MotorCars), have been causing a stir since they were first sighted around the Detroit area this summer.

Global Electric MotorCars was started by a group of Detroit auto engineers in 1992 before a couple of investors bought it a few years ago and moved to Fargo, N.D. A plant there produces about 200 vehicles a month.

About 90 dealerships worldwide have sold nearly 5,000 GEMs. Arizona and California are the hottest markets for the electric cars.

Walworth, a sales representative for auto manufacturers, and three others bought the franchise for Michigan and portions of Ohio and Indiana.

The vehicles, which can reach a top speed of 25 miles per hour, are not yet street-legal in Wisconsin but bills proposed in both houses of the

Wisconsin legislature. Walworth said the car was perfect for touring around the 55-acre lakefront park. He said workers were able to charge the car along the boat docks while doing repairs, something that wouldn't have been possible with a pickup truck.

"It was nice to be able to pop over to the other side of the park rather than getting in a pickup truck or your car," Babcock said. "We ran it out of power on purpose to see what it was like to recharge it. We just plugged it into an outlet, and a few hours later it was ready to go. It was that simple."

The cars are powered by six, 12-volt deep-cycle batteries and can travel 50 to 75 miles between charges, depending on speed, terrain and ambient temperature. The car is recharged in about eight hours by plugging into a 110-volt outlet. It costs about a penny a day to operate.

Walworth said he doesn't expect the GEMs to replace the family car. Instead, he sees the electric vehicle

Hearing set

- **What:** Hearing by the Senate Insurance, Tourism, Transportation and Corrections Committee on a proposal to allow low-speed vehicles on streets
- **When:** 10 a.m., Wednesday
- **Where:** Room 201 Southeast in the Capitol
- **Details:** 1999 Senate Bill 300 would define low-speed vehicles and allow them on streets with posted speed limits up to 25 mph; local jurisdictions could expand that to 35 mph. Assembly Bill 618 is similar.
- **Information:** Carson Frazier, state Department of Transportation, 266-7857; Vaughn Vance, aide to state Sen. Roger Breske, D-Eland, sponsor of the Senate bill and chairman of the committee that is holding the hearing.

Why does a gallon go farther in summer?

By Tom and Ray Magliozzi

Dear Tom and Ray:

I have a 1988 Chevy Nova with 115,000 miles on it. It is well-maintained. During the summer, it gets a decent 34 miles per gallon, but in the winter, it gets only about 29 mpg on the same highway with the same driver. Why?

Tom: 'Cause it's cold out, Brian baby! Look at my brother. He eats 11 pink-frosted doughnuts on the average winter morning instead of his usual eight during July and August.

Ray: The reason cars run less efficiently in cold weather is because gasoline doesn't vaporize as well. The carburetor sends vaporized fuel into the cylinders. And in cold weather, some of it condenses and turns back into liquid gasoline. That portion doesn't burn and is essentially wasted. And that accounts for most of your 15 percent reduction in mileage.

Tom: Most cars spend more time warming up and idling in the winter, and in some areas, there's more wind resistance as well. But the loss of efficiency in gasoline combustion due to cold weather accounts for the vast majority of the lost mileage.

Dear Tom and Ray:

I have a '95 Kia Sportage, which, on the whole, I have liked very much. About a year ago, though, one of my power windows broke, causing the glass to slide down into my door. The window wouldn't go up anymore. The dealership said it would cost about \$350 to fix, so I had them put a block under the window instead of keep it closed. A few weeks ago, it fell into the door again, and I had to have it re-blocked. In the past month, two more windows have taken a dive, so to speak. Is this something with Kias, and is there some recourse? Can I get a kit to convert the car from power windows to manual windows? Thanks. — Dina

Ray: I don't know of any kit that turns power windows into roll-up windows, Dina. I've seen electric sunroofs with "emergency cranks" (because if THAT motor fails in the rain, you're in REAL trouble), but there's no such kit for windows as far as I know.

Tom: And in general, I'm afraid you're out of luck. You bought a cheap car. You got a great price, right? You even say that, on the whole, you like it very much. But most cheap cars are cheap because their components are, what? Cheap! And although there's no technical service bulletin on the window regulators, my guess is that

WISCONSIN

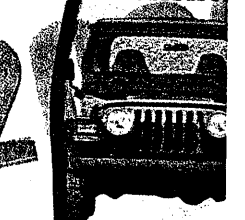
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36 month lease with \$2351.3
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JEEP

29 mpg on the same highway with the same driver. Why? — Brian

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Ray: My advice would be to look for a special on "blocks." If money's an issue and you're not planning to keep the car forever, I'd use blocks for all but the driver's window. That one you're really going to have to fix. You'll realize that after you miss a few "exact change" toll tickets while leaning out the door and have 8 gazillion cars honking at you and being unfriendly hand gestures.

Tom: Or when you ride with my rother the morning after he's eaten a meatball sub.

Ray: But that's the chance you take when you buy a bargain-price car, Dina. Overall, you may have one well — even after you pay for repairs. But annoyances like this are the risk you take when you buy a Kia instead of a more expensive Honda or Toyota.

Tom and Ray Magliozzi work on Boston and their twice weekly columns are syndicated by King Features. Their national call-in program "Car Talk" is broadcast from 9 to 10 m. Saturdays on Wisconsin Public Radio (WHA-AM 970 in Madison and HHI-FM 91.3 in Highland). Have a question about cars? Write to Click & Clack Talk Cars in care of the Wisconsin State Journal, Box 8058, Madison, Wis. 53708. You can also e-mail them by visiting <http://cars.com> or the World Wide Web.



Knight Ridder photo

Global Electric MotorCars have caught the eye of environmentalists and others looking to reduce pollution. Above, clowns drive several of the vehicles during this year's Thanksgiving Day parade in Detroit.

The battery-powered cars can reach 25 mph

By Dan Shine
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Global Electric MotorCar

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The vehicles, which can reach a top speed of 25 miles per hour, are not yet street-legal in Wisconsin but bills proposed in both houses of the Legislature would allow them on streets where the posted speed limits are 25 mph or up to 35 mph in some cases. A hearing is scheduled for one of the bills in January.

There are two GEM dealers in Wisconsin, Clary Equipment and Leasing in Viroqua and GEM Distributors in Sturtevant, listed on the Global Electric MotorCars' World Wide Web site — www.gemcar.com.

The cars also can be shifted into "turf mode," which gives them a top speed of 15 mph on unpaved surfaces.

"When I got in it my first thought was, 25 miles per hour — geez that's slow," said Bob Kozak, who sells the cars at Koz's Equipment in Saline, Mich.

The egg-shaped cars range in price from about \$7,500 to \$10,000.

The cars also were featured in Detroit's America's Thanksgiving

- **Base price:** \$7,695 two-seater; \$9,325 four-seater
- **Type:** electric vehicle
- **Standard equipment:** Rear brake lights and backup alarm, auto-style headlights, anchored three-point seat belts, windshield wiper and safety glass
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Day Parade

Workers at the Grosse Pointe Woods municipal park in St. Clair Shores used a GEM for five days this fall. Bill Babcock, recreation supervisor for the city, said the employees had fun with the car. "It had a lot more giddy-up than I expected," he said. "It came in handy for chasing geese."

Babcock said the car was perfect for tooling around the 55-acre lake-front park. He said workers were able to drive the car along the boat docks while doing repairs, something that wouldn't have been possible with a pickup truck.

"It was nice to be able to pop over to the other side of the park rather than getting in a pickup truck or your car," Babcock said. "We ran it out of power on purpose to see what it was like to recharge it. We just plugged it into an outlet, and a few hours later it was ready to go. It was that simple."

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Walworth said he doesn't expect the GEMs to replace the family car. Instead, he sees the electric vehicle as a complementary car.

GEMs have been shipped to Egypt, Japan, the Philippines, Mexico, Argentina and Australia. A Key West, Fla., company rents out the electric cars to tourists to get around the island.

The Air Force uses GEMs at a base in Arizona and Global Electric MotorCars is preparing a bid to outfit the U.S. Postal Service with vehicles in some of the country's warmer climates.

Walworth said the cars would be useful to ferry equipment, parts and people around large factories, such as auto plants or industrial complexes.

GEMs are equipped with headlights, safety belts, turn signals and windshield wipers. Drivers can get hard or soft doors, and a radio is optional. GEMs come in two-seat and four-seat models, and one ver-

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sion has a flatbed. Colors are green, yellow, white, red and blue.

The car is simple to operate. Flick a switch on the steering wheel to forward, neutral or reverse, and step on the gas. . . . electric.

Buyers get a 10 percent federal income tax credit; other incentives are available.

Walworth said being conscious of the environment "may be a novelty type of thing" for some people now, but he says the movement will grow stronger soon.

Walworth got involved in GEMs about two years ago when a friend read an article in The Wall Street Journal on the electric cars. He said he was interested from a business end, thinking there would be a growing market for the vehicles.

"Then it became a fun challenge," he said. "We thought, How can we make this work?"

In Arizona, where the cars are legal on public streets, Kozak said, people try to buy the GEMs as they're being unloaded off the truck.

Kozak has about a dozen in stock and said many customers have told him they will be back to buy one once they are street-legal.

He said he is excited to be a part of GEM, and his favorite quote about the car is that it is "slow, small and doesn't go very fast — it's perfect."

"We have no intention of getting it to go 50 mph," he said. "We don't want to compete with the automobile."

Walworth said he was skeptical that he would ever want a GEM in his garage. "I thought, Why would I want one?" he said. "But I've had a blast driving them. I can see myself having this around."

One of country's first minivan buyers rewarded

Chicago Tribune

■ DaimlerChrysler president Jim Holden paid a surprise visit to the home of Chuck Fulton in Cedar Rapids, Iowa, to present him with the keys to a new Dodge Grand Caravan ES, the 8 millionth van produced by the automaker, formerly known as Chrysler Corp. The event was staged to celebrate that in November 1983 Fulton was driving along Interstate 80 when he spotted a car hauler carrying what he considered an unusual looking vehicle. He followed the carrier to the deal-

TRANSPORTATION NOTES

ership, test drove a Dodge Caravan and bought one of the first Chrysler minivans built. Chrysler began producing minivans Nov. 2, 1983, in Windsor, Ontario.

■ As part of a "Team Behind the Team" program at General Motors, the automaker says it is donating 100 vehicles to athletes judged "Olympic hopefuls" by former Olympians "to help ease the financial burden that the quest for Olympic

glory places on them and their families."

■ J.D. Power and Associates, in its 1999 Used-Vehicle Market Assessment, reports that consumers are willing to spend an added \$400 for a "certified" used vehicle that's inspected, repaired and warranted by the dealership, but more than half of all used-car buyers are unaware that such "certified" used-car programs are offered. Of those who buy "certified" used cars, Power says 66 percent say they are very satisfied with the vehicle and would buy another one.

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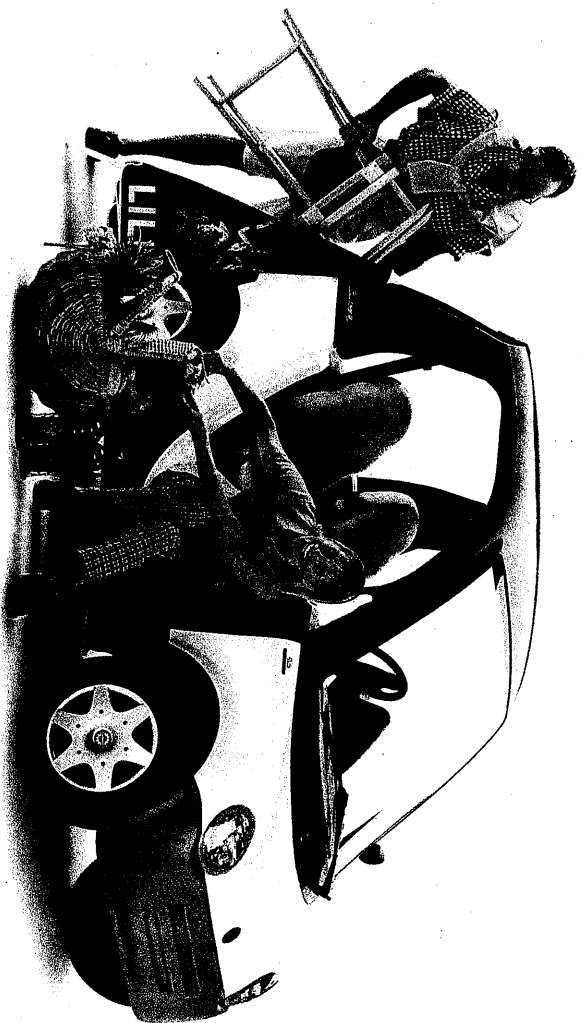


THE BOMBARDIER NV *Introducing a brand new era in personal transportation.*

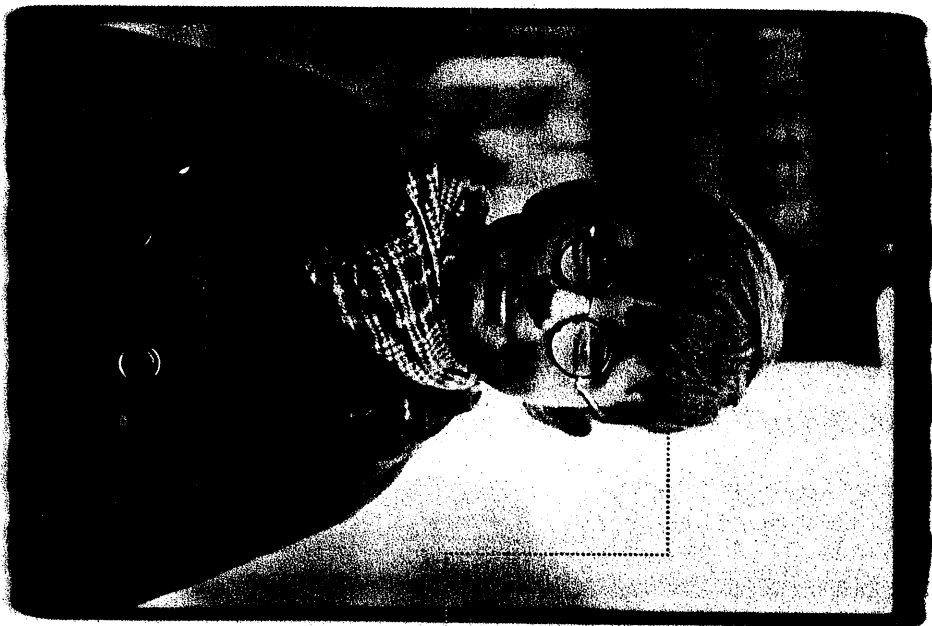


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Evolution. Innovation. They're coming at you from all directions. Some you can do without. Others make you look up and say "why didn't they invent this sooner?" That's the case with the new Bombardier Neighborhood Vehicle™ (NV™ for short). It's the first mass-produced neighborhood electric vehicle on the planet, and it's as easy to charge as a cellular phone. No wonder people are paying attention. From major utility companies to automotive engineers, we've had all kinds of people showing up to see what all the fuss is about. No one leaves unimpressed. That's because the NV represents nothing less than a new era in personal transportation. That's the big picture. On a more personal scale, one trip around the block in the Bombardier NV and you'll see why we also call it **your friendly neighborhood vehicleSM**.



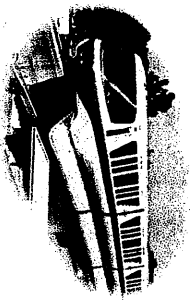
Where there's a wheel, there's a way.SM



1997 Sea-Doo XP



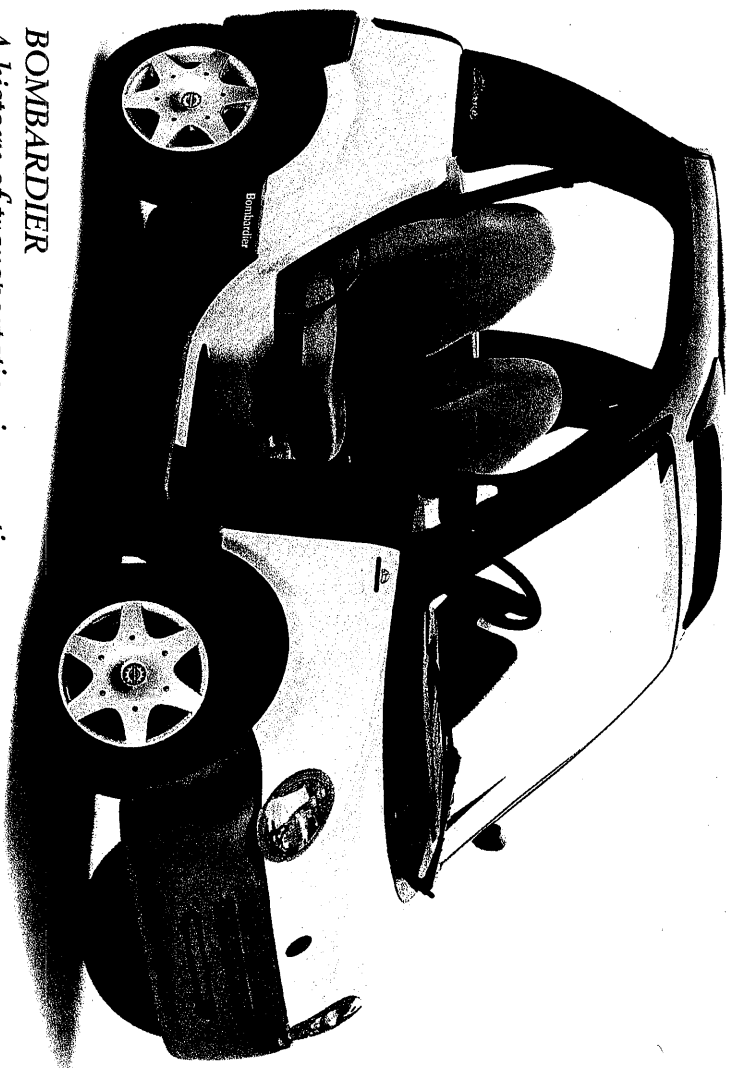
1998 Ski-Doo Formula III 600



Monorail Mark VI



Learjet 45



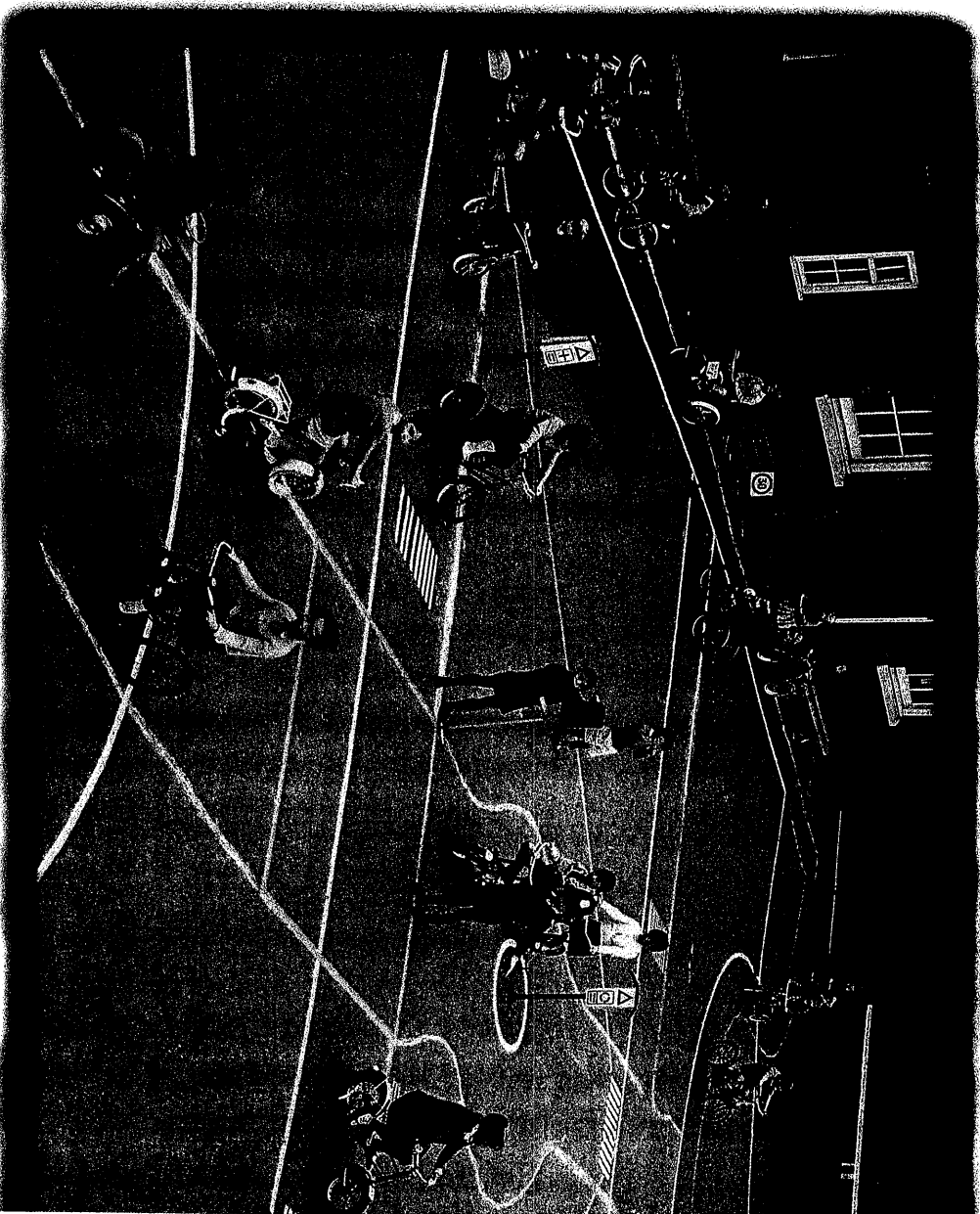
BOMBARDIER
A history of transportation innovation.



The story of this amazing company goes back to 1942, when Joseph-Armand Bombardier invented what he liked to call "the first car that rides on snow." His cherished vehicle became the forerunner of the world's first production snowmobile: Ski-Doo®. Today, more than half a century later, Bombardier is an \$8 billion company with 41,000 employees on five continents. During all these years a single principle sums up **the Bombardier philosophy—transportation innovation**. For example, in aerospace we've built a worldwide reputation by changing the way people fly with the Canadair® Regional Jet, the Learjet®

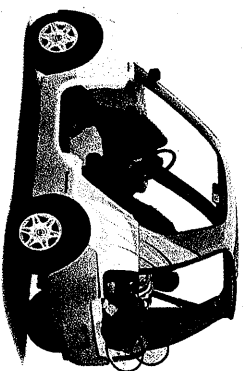
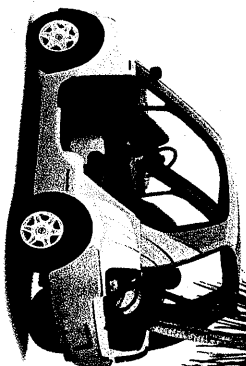
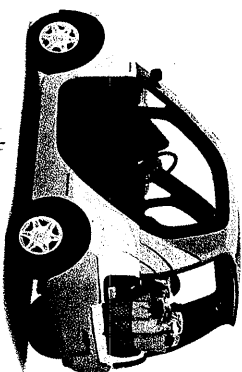
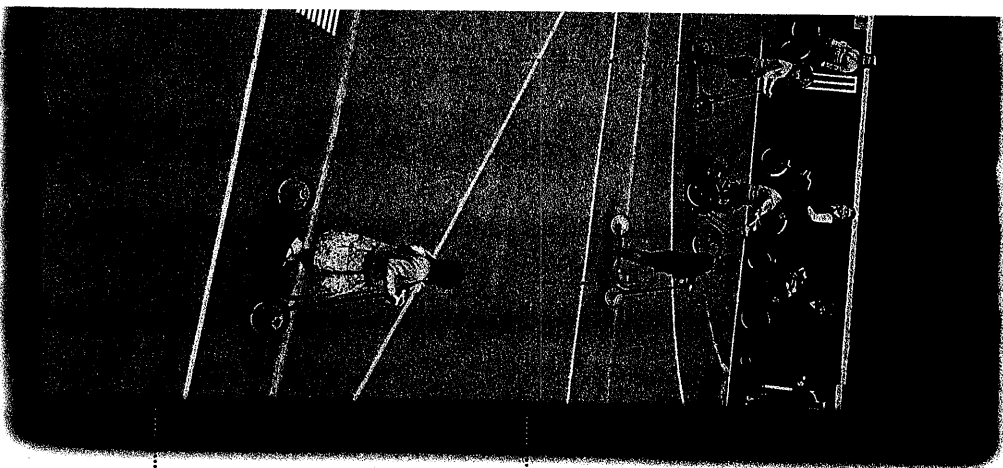
and the all-new Global Express® business aircraft. In marine transportation, we've become the market leader with Sea-Doo® watercraft. And in urban mass transit, we pioneered innovations like the Disneyworld monorail, the trains for the Euro Tunnel between England and France, the New York City subway cars, and we're about to introduce the first high-speed train (TGV) to North America. This impressive track record stands as proof of our commitment to transportation innovation on snow, in the air, on water, on rails and now, with the Bombardier NV, on the road.

Come to think of it, we've all ridden a friendly neighborhood vehicle.



NONSTOP NEIGHBORHOOD FUN.

There's nothing like living the good life. Especially when you've earned it. Today it might be horseback riding or tap dancing or Aquafit, band practice or golf. And that's only until the sun goes down. Then there's the theater or dinner at the Riverside. No problem, the NV can keep up. And with the kind of honest good looks that'll soon make you the, ahem, **NV of the neighborhood**SM.



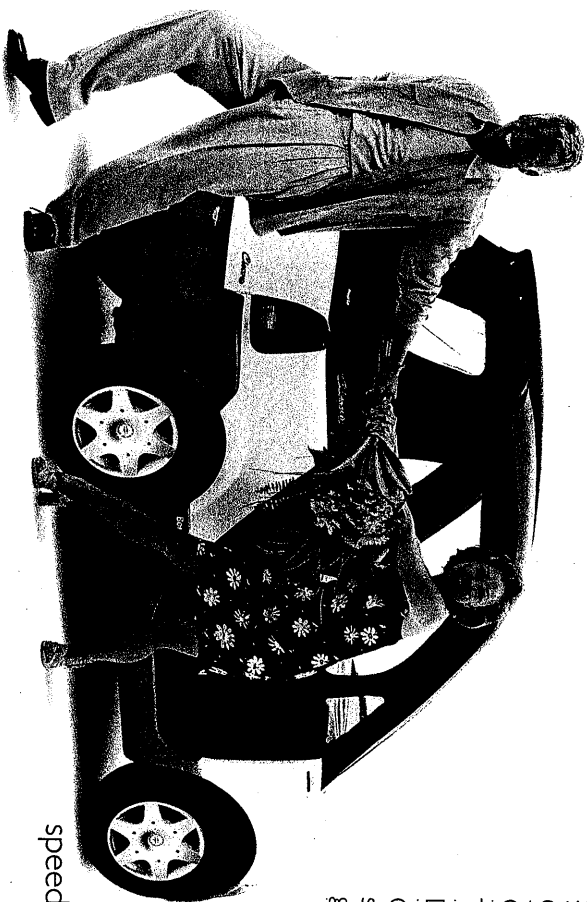


SURPRISE. THE NV HAS TWO FRIENDLY PERSONALITIES.

That's right. We make two NVs. First, there's the burgundy Class-E, which, charming as it is, leaves the two of you with decisions. Will it be the marina or the bridge club? Shakespeare in the Park or the art gallery preview? Whatever. There's one thing you'll both agree on. You're going in the NV.



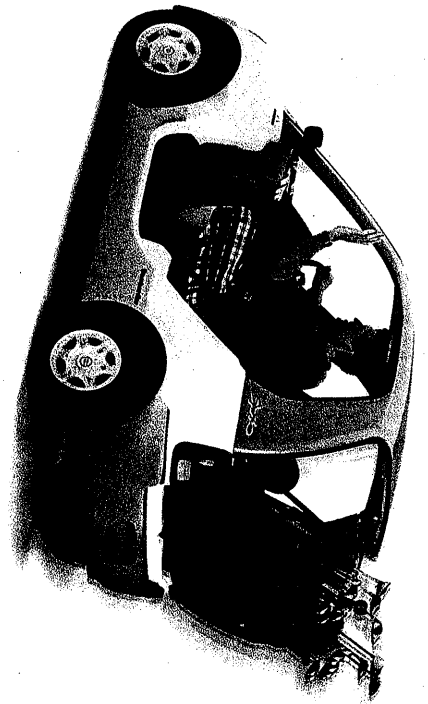
*- Let's eat at my house.
- No. My house!*



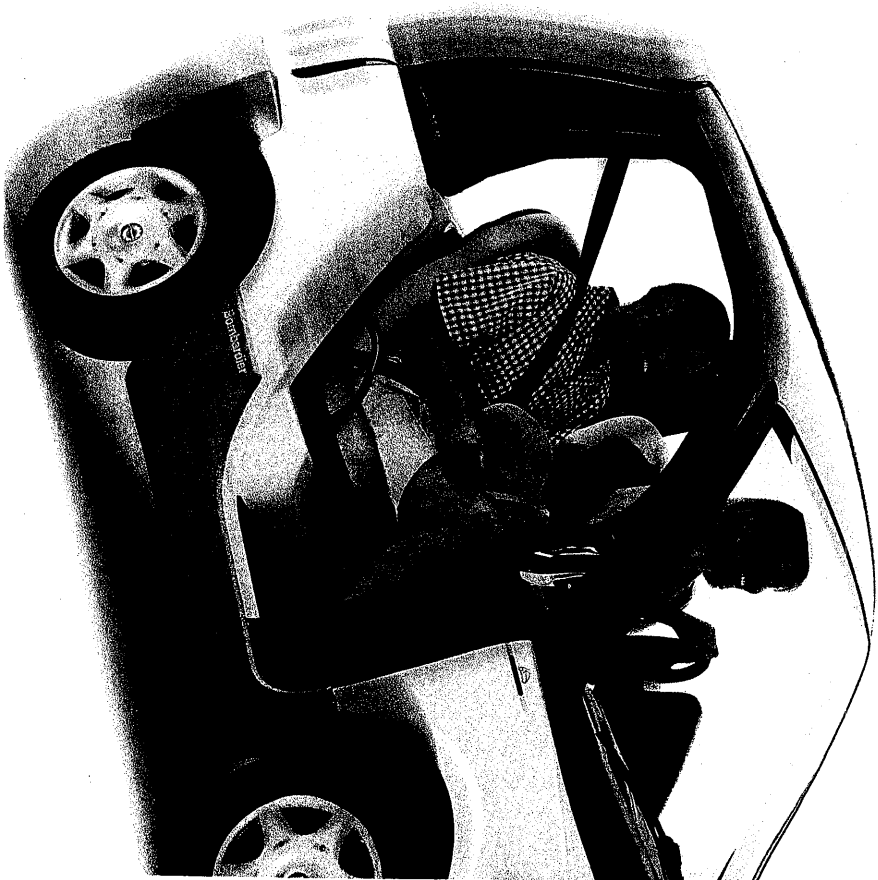
	CLASS-E	
	Street	Golf
Front wheel hydraulic drum brakes	•	•
Rear wheel regeneration brakes	•	•
Four-wheel independent suspension	•	•
Maintenance-free recyclable batteries	•	•
Automotive lighting system	•	•
Brake lights, horn	•	•
Low speed golf mode	•	•
Sun visor/license plate lamp	•	•
Lockable rear trunk	•	•
Street tires	•	•
Golf tires		•
Outside rearview mirror	2	1
Tinted laminated glass windshield	•	•
Deluxe speedometer/odometer	•	•
Golf accessories* (cardholder, steering wheel, golf bag holders, golf ball support)		•

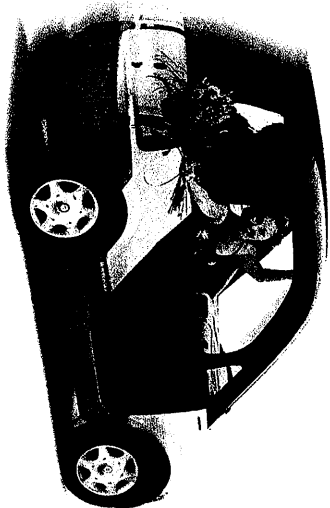
Deluxe speedometer/odometer Quick and easy plug-in



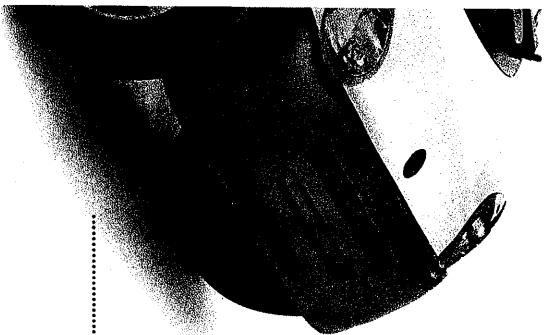


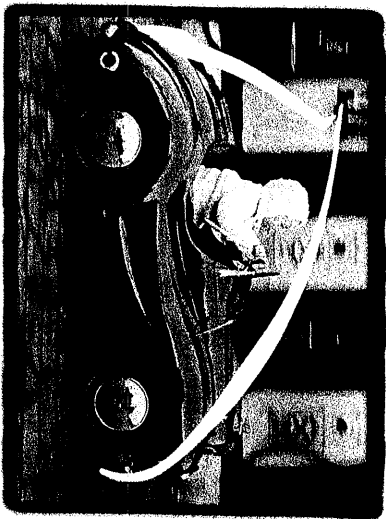
THE NEXT WAVE OF PERSONAL TRANSPORTATION.





A few years ago, we took a long, hard look at communities like yours. We realized there wasn't a vehicle on the planet specifically designed for your dozens of daily short trips. So we asked thousands of people what their dream vehicle would be. Then we built it. And perfected it through thousands of hours and miles of tests. Then we let hundreds of people test drive it, to see if it fulfilled their dream. The answer was yes. Now it's your turn. Don't miss out. Test drive an NV today, and get a head start on the next wave of personal transportation.





Bombardier NV

www.BombardierNV.com

**Bombardier
Motor Corporation
of America Inc.**
730 East Strawbridge Avenue
Melbourne, FL 32901
USA

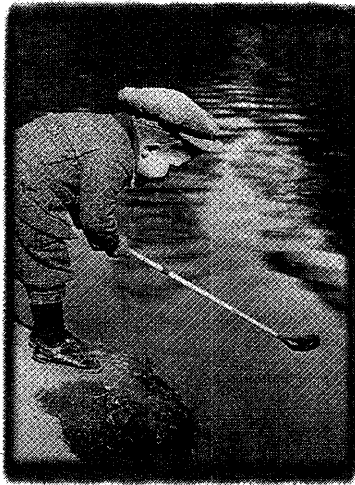
Important Notice

FOR MORE INFORMATION OR FOR THE ADDRESS OF YOUR NEAREST BOMBARDIER NV DEALER PLEASE CALL 1-888-638-5397

Drivers and passengers should be advised that the Bombardier NV has been defined as a motor vehicle or low speed vehicle by the National Highway Traffic Safety Agency. It does not meet Federal Motor Vehicle Safety Standards. It is designed to be used in residential areas with low density traffic, and low speed zones. Refer to your local and state laws for specific details as to where it may be driven. The Bombardier Neighborhood Vehicle is recognized as a leader in improving air quality, strengthening the local economy, and enhancing public awareness of alternative fuels through commitment to and participation in the United States Department of Energy's Clean Cities Program. In keeping with the Bombardier commitment to product innovation, we reserve the right at any time to modify or discontinue specifications, design, models or equipment without obligation. NV, Sport-E, Class-E and the friendly vehicle logo are trademarks of Bombardier Inc. ® Trademarks of Bombardier Inc., and its subsidiary. ©1997 Bombardier Inc. All rights reserved. Printed in Canada.



Sport-  TM



customize your own NV



Bombardier NV

Your friendly neighborhood vehicleSM

Cardholder steering wheel

Brake light

Automotive lighting system

Turf tires and hub-caps



Left outside rearview mirror

Decalcomania

Golf bag holders

Easy charging



Vehicles may differ from illustration.

Performance

Range	30 miles approx.* (50 km)
Maximum Speed	Drive: 25 mph (40 km/h) Golf: 15 mph (25 km/h)
Gradeability	30 % (maximum load condition)
Charge Time*	8 hrs through standard 120 volt AC outlet

* May vary according to driving style and conditions.

Dimensions

Length	100 in./254 cm
Width	55 in./140 cm
Height	61.25 in./156 cm
Wheel Base	65 in./165 cm
Weight	1,275 lbs./580 kg
Ground Clearance	5.75 in./15.3 cm
Curb to Curb	21 ft./6.4 m

Power train

Batteries	6 - 12V lead acid + 1 auxiliary for electrical accessories (maintenance free)
Charger	Onboard, 120V
Motor	72V, 4KW DC Shunt motor

STANDARD FEATURES

Maintenance-free recyclable batteries
Three-point retractable seat belts
Adjustable bucket seats
Automotive lighting system
Dash mounted function key selector
Rust-free composite unibody with front and rear steel subframe
Four-wheel independent suspension
Front wheel hydraulic drum brakes
Handbrake
Rear wheel regeneration brakes
Radial tires
Rack and pinion steering
Laminated glass windshield
Hub-caps



Friendly Owner

Base Price

Available Accessories

Price

- Rooftop air deflector
- Windshield wiper and washer system
- Soft door package
- Seat cover kit
- AM/FM stereo cassette system
- AM/FM stereo/CD
- Center console
- Cooler kit
- Trunk catch-all net
- Full body NV cover
- Extension cord kit
- Flat tire eliminator
- License plate light
- Decalomania

Golf Option Package

- 10" turf tires
- Low-speed golf mode
- Seeder bottle and rack
- Golf bag holders
- Golf ball support
- Card holder steering wheel

Street Option Package

- Lockable rear trunk
- Outside rearview mirror

Freight and dealer's preparation

Total

Ask about our financing and leasing program



Performance

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Maximum Speed	Drive: 25 mph (40 km/h) Golf: 15 mph (25 km/h)
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- Seat cover kit
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- Golf ball support
- Card holder steering wheel

Street Option Package

- Lockable rear trunk
- Outside rearview mirror

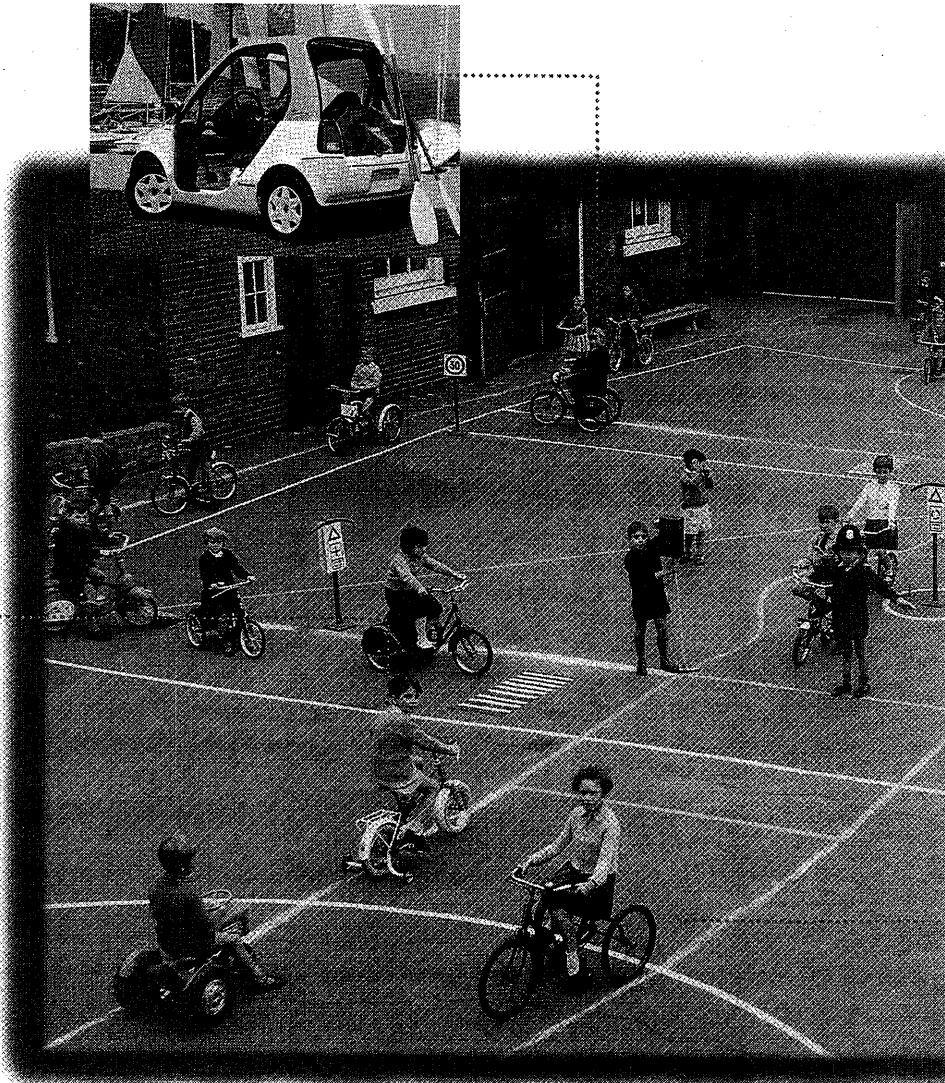
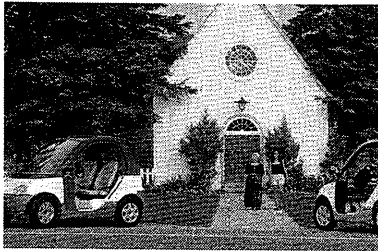
Freight and dealer's preparation

Total

Ask about our financing and leasing program

STANDARD FEATURES

- Maintenance-free recyclable batteries
- Tinted laminated glass windshield
- Deluxe speedometer/odometer
- Three-point retractable seat belts
- Adjustable bucket seats
- Automotive lighting system
- Dash mounted function key selector
- Rust-free composite unibody with front and rear steel subframe
- Four-wheel independent suspension
- Front wheel hydraulic drum brakes
- Handbrake
- Rear wheel regeneration brakes
- Radial tires
- Rack and pinion steering
- License plate light
- Hub-caps
- Outside rearview mirror
- Sun visor with vanity mirror



come to think of it, we've all ridden a friendly neighbor

FOR MORE INFORMATION OR FOR THE ADDRESS OF YOUR NEAREST BOMBARDIER NV DEALER PLEASE CALL 1-888-638-5397

Important Notice

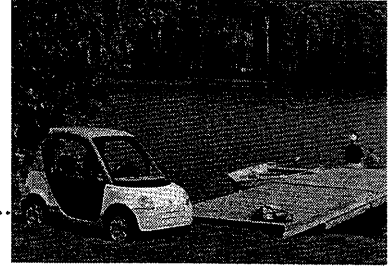
The Bombardier NV™ Neighborhood Vehicle is recognized as a leader in improving air quality, strengthening the local economy, and enhancing public awareness of alternative fuels through commitment to and participation in the United States Department of Energy's Clean Cities Program. In keeping with the Bombardier commitment to product innovation, we reserve the right, at any time, to modify or discontinue specifications, design, models or equipment without obligation. The Bombardier NV™ Neighborhood Vehicle is not a motor vehicle as defined by the National Highway Traffic Safety Agency. It does not meet Federal Motor Vehicle Safety Standards. It is designed to be used in residential areas with low density traffic, and low speed zones. Refer to your local and state laws for specific details as to where it may be driven. NV, Sport-E, Class-E and the friendly vehicle logo are trademarks of Bombardier Inc. *Trademarks of Bombardier Inc., and its subsidiary. ©1998 Bombardier Inc. All rights reserved. ™ of Bombardier Inc. Printed in Canada. - 9801/110-90.



BOMBARDIER
RECREATIONAL PRODUCTS



ood vehicle.



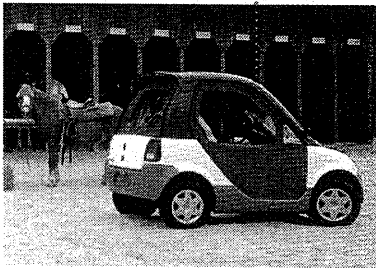
NON-STOP NEIGHBORHOOD FUN

There's nothing like living the good life. Especially when you've earned it. Today it might be horseback riding, or tap dancing, or Aquafit, band practice or golf. And that's only until the sun goes down. Then there's the theater or dinner at the Riverside. No problem, the NV can keep up. And with the kind of honest good looks that'll soon make you the, ahem, NV of the neighborhoodSM.



Bombardier NV

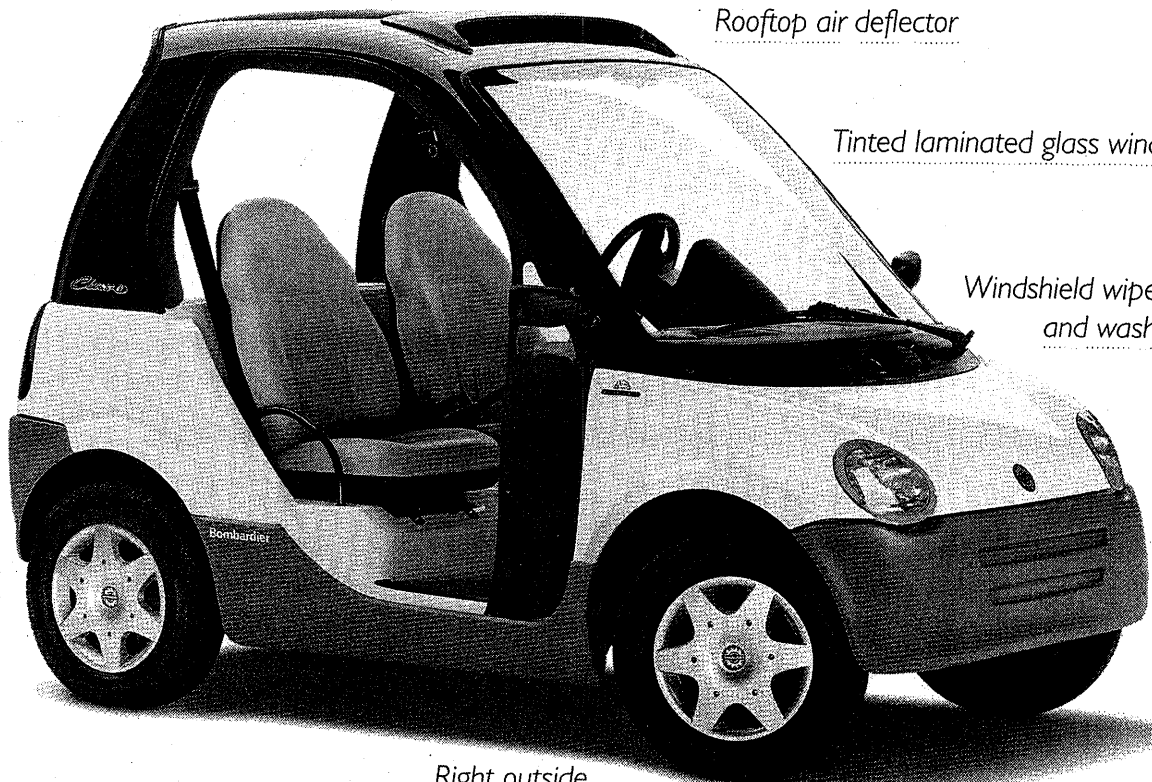
Your friendly neighborhood vehicleSM



**BOMBARDIER
RECREATIONAL PRODUCTS**

730 East Strawbridge Avenue
Melbourne, FL 32901
U.S.A.

www.BombardierNV.com



Rooftop air deflector

Tinted laminated glass windshield

Windshield wiper and washer system

Street tires and hub-caps

Right outside rearview mirror

Deluxe speedometer / odometer



Soft door package



Vehicles may differ from illustration.

Class-e™



customize your own NV

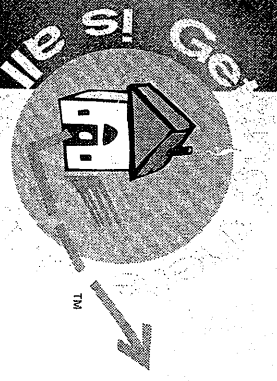


Bombardier NV

Your friendly neighborhood vehicle™



NEIGHBORHOOD ELECTRIC VEHICLES



The Neighborhood Electric Vehicle. It drives home the concept of fun.

Call it NEV, for short. What is it? The first of a new

generation of electric powered vehicles. And a great new

way to get from here to there. Where can you take it?

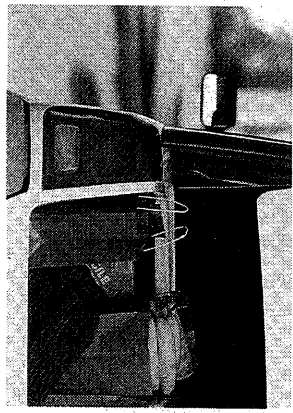
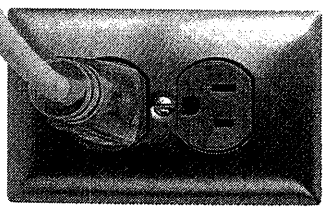
Almost anywhere the road leads in your community. How

will it make you feel? Free. To go where you want. When you

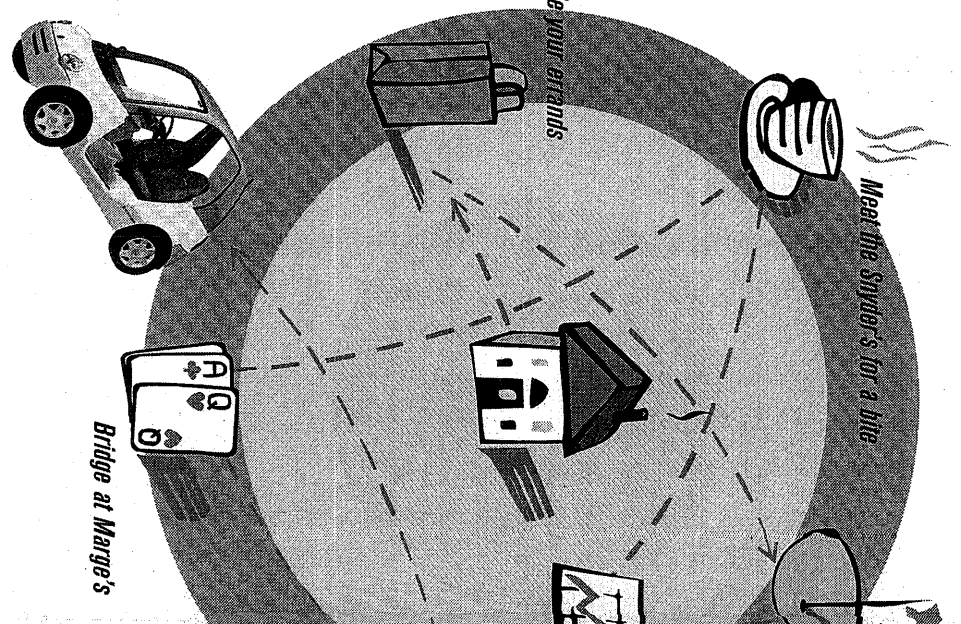
want. Simply. And comfortably. With the NEV, getting there

isn't half the fun. It's all of it.

*If you're
looking for fun,
we have the
perfect outlet.*



*It's practical. It's spacious.
The NEV trunk adds a whole new dimension.*



...a quick round

...handle with stackraker

...Ace Astrophysics class

30 mile range
Where in your neighborhood can
you go in a NEV? Where did you
have in mind?*

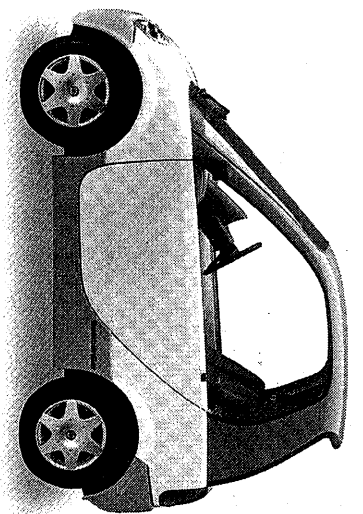
*Zero emissions add up
to a cleaner environment.*

**Actual distance may vary according to
driving style and conditions.*





It took a lot of complex thinking to make a vehicle this simple.



Available doors put something between you and the outside world.

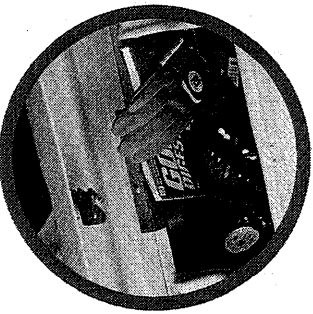
Plug it in. One charge can take you more than 30 miles. Sit in it. You'll notice the NEV

was specifically designed for easy entry and exit. Settle back in it. You'll be cradled in

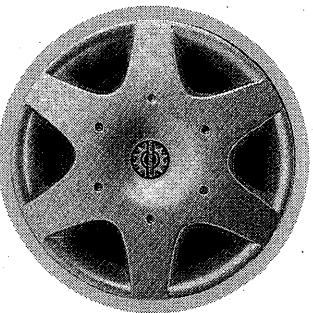
its ergonomically designed bucket seats. Drive in it. Feel how it handles the road. But wait.

The road may not be your final destination. You may be following a different course.

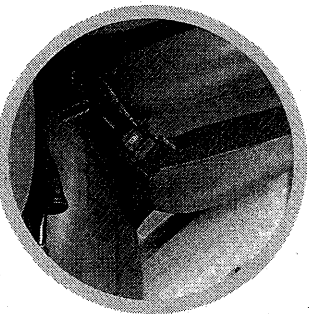
The NEV can zip you almost anywhere within your community.



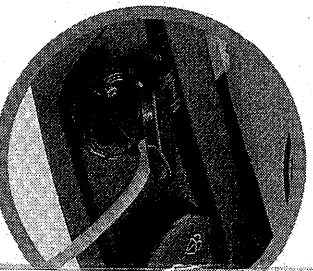
Spacious glove compartment



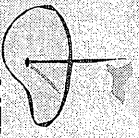
Stylish automotive details



3-point retractable seatbelts

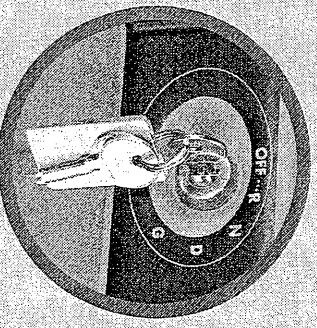


Quick and easy plug-in



**Consider the
NEV with the Golf
Option Package.**

- Special low speed
golf mode
- Golf bag holder
in trunk
- 10" turf tires
- Passenger side
restraint system
- Service brake pedal
with foot brake

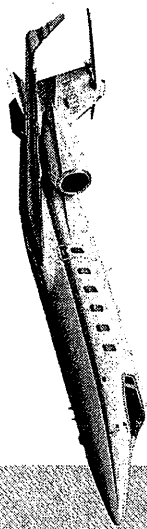


Truly simple operation



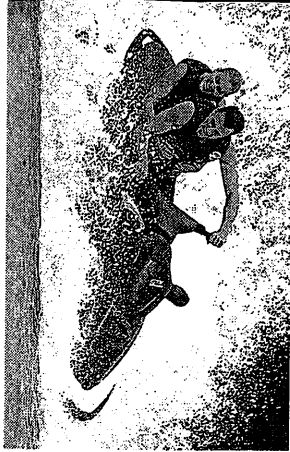


We've been around the block a few times. Not to mention the world.



Bombardier (say Bom-bar-dee-yay). The name may be new to you.

But we introduced Ski-Doo[®], the world's first production snowmobile.



Built Sea-Doo[®] watercraft, the world's best-selling

boat. Created the Canadair[®] 50 passenger

regional jet. Designed subway cars

for the world's largest cities. And monorail systems.

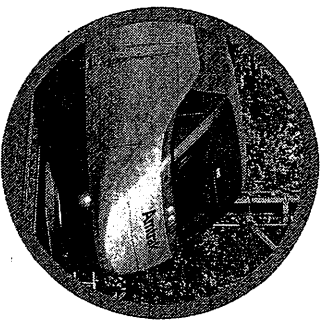
And the Learjet[®]. And have become the exclusive

builder of America's fastest train. We have a long record of



innovation behind us. With the NEV, the road ahead

looks every bit as promising.



Specifications:

Length

100"/254 cm

Width

55"/140 cm

Height

61.25"/156 cm

Wheel Base

65"/165 cm

Curb Weight

1275 lb/580 kg

Gross Weight

1725 lb/785 kg

Ground Clearance

5.75"/15.3 cm

Curb to Curb

21"/64 cm

72V, 4kW/DC

shunt motor

6-12 V/L/A batteries

Onboard 110V charger

Available

Accessories:

Door kit

Seeder bottle & rack

AM/FM cassette

stereo system

Windshield wiper &

washer system

Side/rear rain curtain

Full body/NEV cover

Laminated glass
windshield

Available
windshield wiper and
washer system

Outside
rear view
mirrors

Rack
and pinion
steering

3 point
retractable
seat belts

Rigid composite unibody
with front and rear
steel subframe

Lockable
rear trunk

Automotive
lighting system

Dash
mounted
function
key selector

Available
lockable handbrake

Bombardier

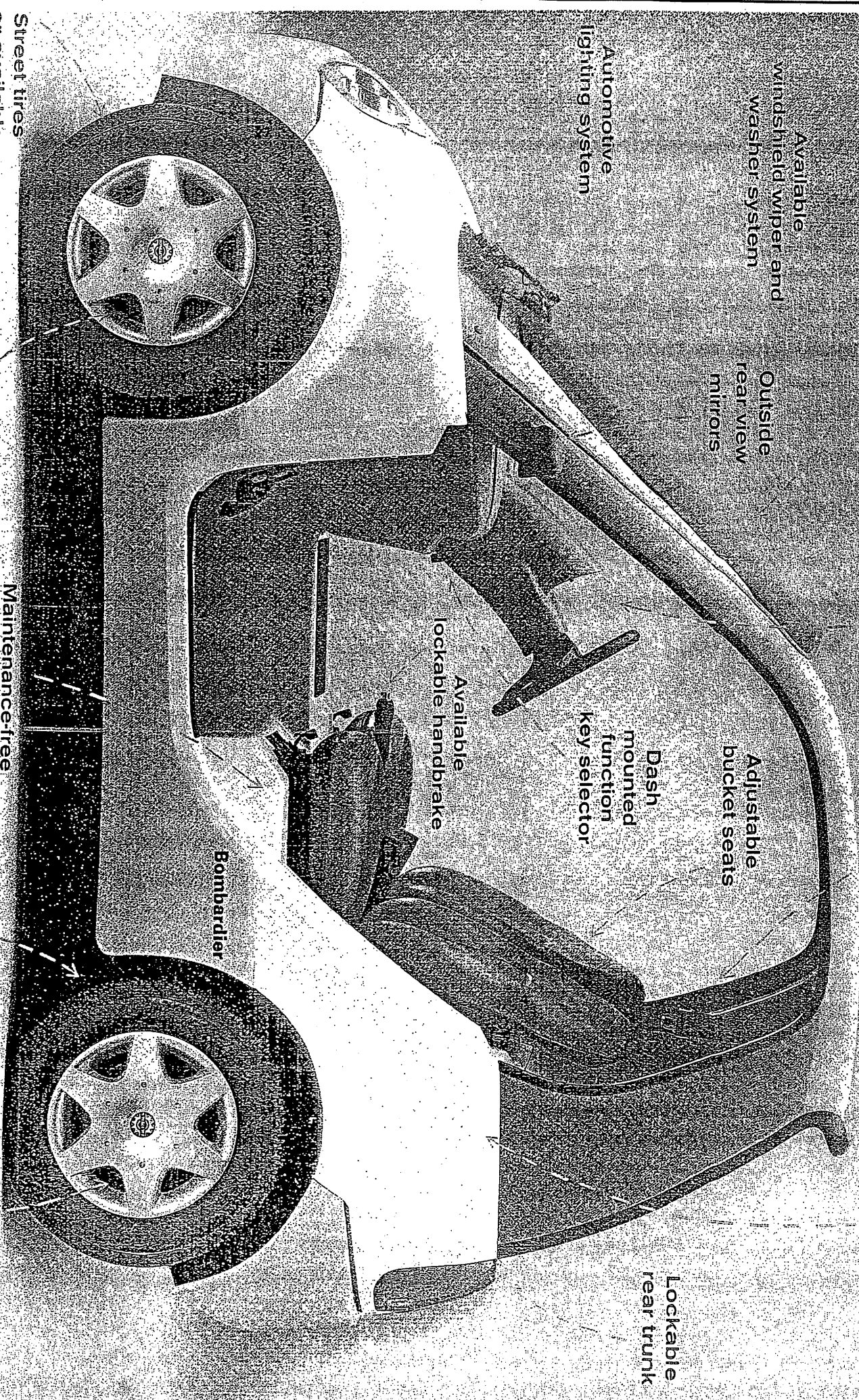
Street tires
or available
golf tires

Front wheel hydraulic
drum brakes

Maintenance-free
recyclable batteries

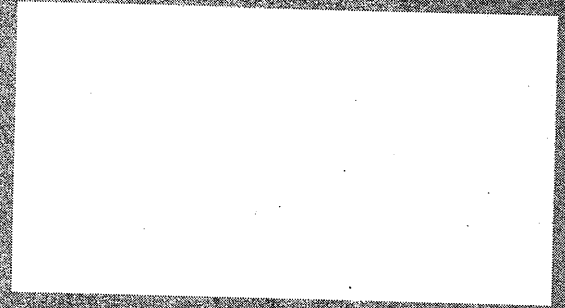
Four wheel
independent suspension

Rear wheel
regeneration
brakes



Important Notice

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Bombardier

NEIGHBORHOOD ELECTRIC VEHICLES

Bombardier Motor Corporation of America

2202 West Lone Cactus Drive, Suite 4

Phoenix, Arizona 85024-5505

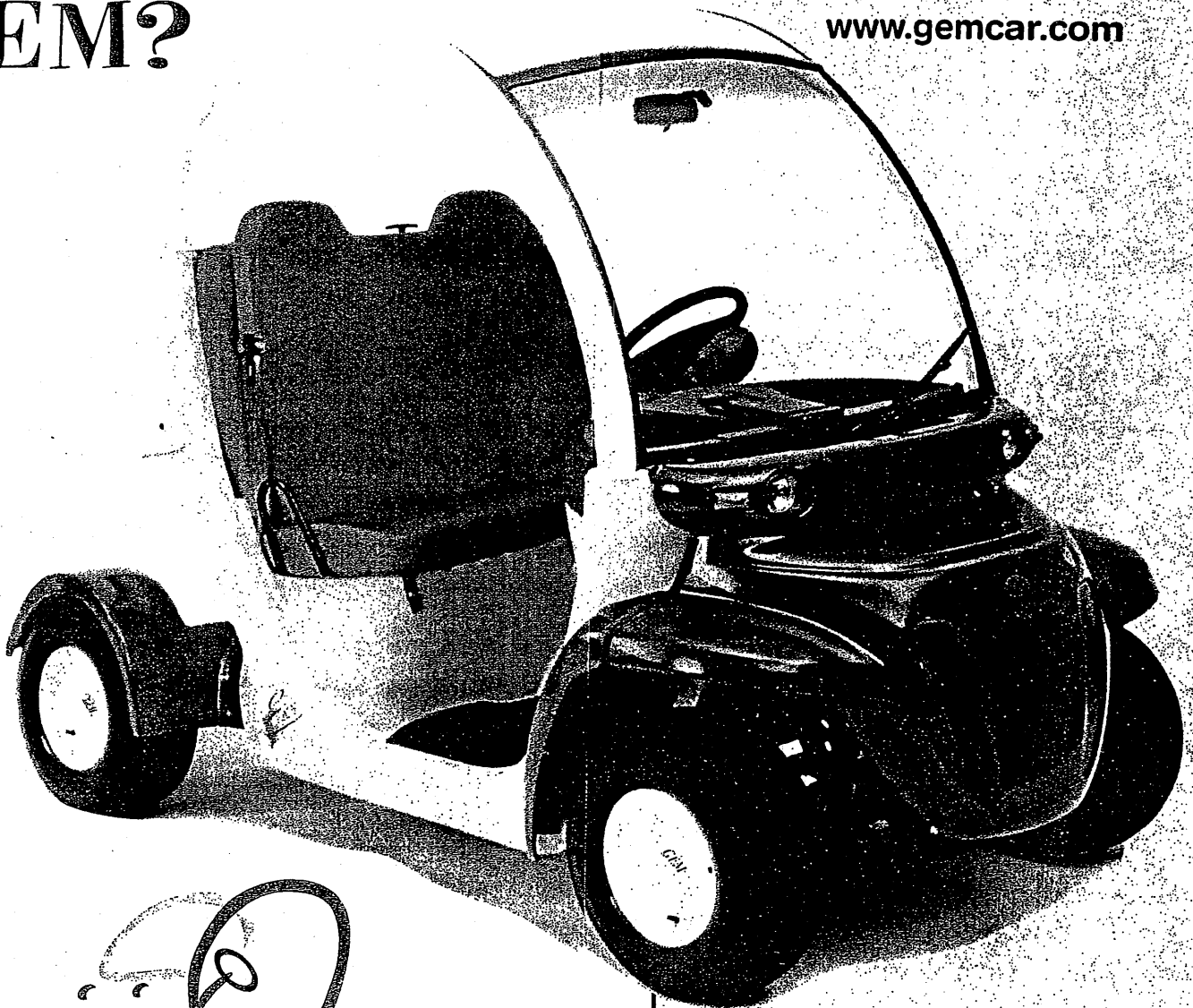
602-581-1515 Fax 602-581-2760

bomb@goodnet.com

What could
be better
than a two
passenger
GEM?



www.gemcar.com




GEMTM

Global Electric MotorCars, LLC

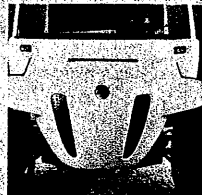
Safe • Affordable
Versatile • Practical
Built To Last
Makes You Smile

Standard Features

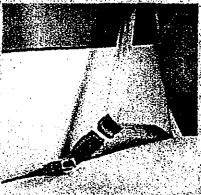
Safe - GEM is equipped with front wheel drive, four-wheel hydraulic brakes, safety glass windshield with wiper, and three-point anchored seatbelts. Standard features include headlights, high-mounted brake lights and turn signals. And GEM stands as tall as a mini-van, making it highly visible even in the busiest traffic.



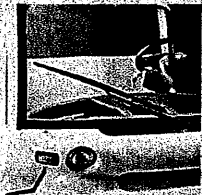
Rear Brake Lights and Backup Alarm



Automotive-Style Headlamps



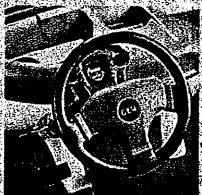
Anchored Three-Point Seatbelts



Windshield Wiper and Safety Glass Windshield

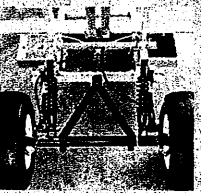


Adjustable Rear View Mirror

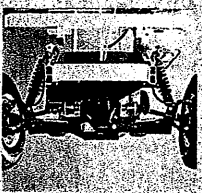


Steering Wheel and Turn Signal Control

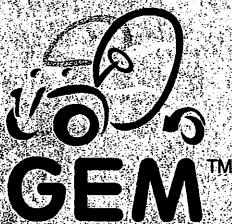
Frame/Suspension



Rugged, Heavy-Duty Chassis

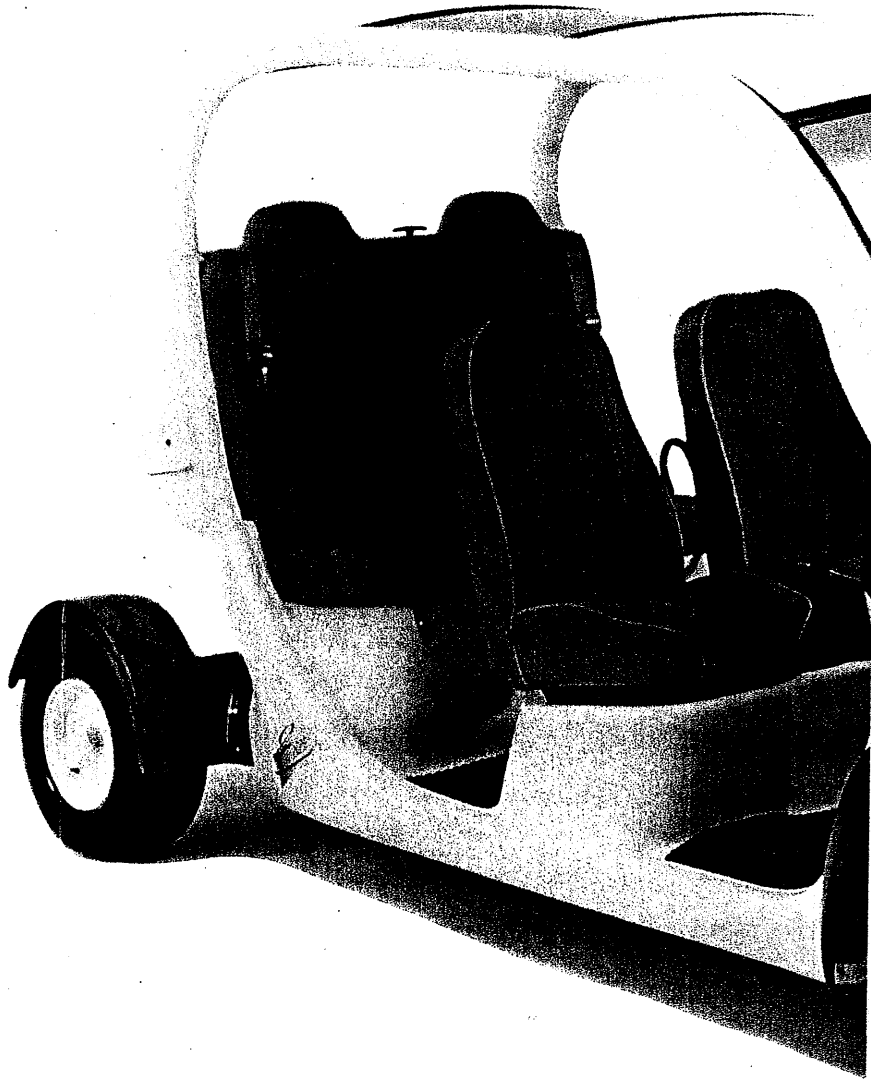


Smooth-Riding Suspension System



Global Electric Motor Cars, LLC
Fargo, North Dakota

A four passenger GEM, of course . . .



The only 4 passenger Neighborhood Electric Vehicle (NEV) in America.

Practical

GEM is "practical" because it goes "practically" anywhere. It's inexpensive to operate, reduces traffic congestion, and there are no exhaust emissions. GEM is quiet and quick. It's great for neighborhood residents, vacationers and professional people. GEM makes it easy to run errands. Pick up the kids. Zip to the store, to meetings, to job sites. GEM creates a new life-style of function and convenience!

Affordable

GEM keeps cost down with low-maintenance batteries and an on-board charger that plugs into any 110-volt outlet to fully charge GEM in just 8 to 12 hours. The GEM has an operating cost of about a penny per mile and delivers plenty of value because it's built to last.

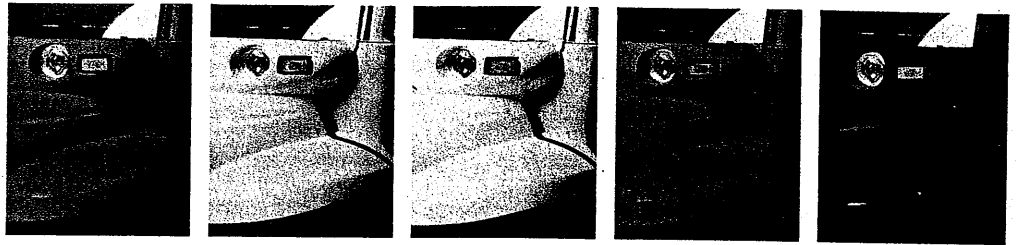
Functional

GEM seats two or four passengers comfortably. Drive at street speed up to 25 m.p.h.

- Ask us about federal and state tax credits available to you and your company
- Complies to all safety standards established by the Department of Transportation for street use in most states. Check your state and local laws.

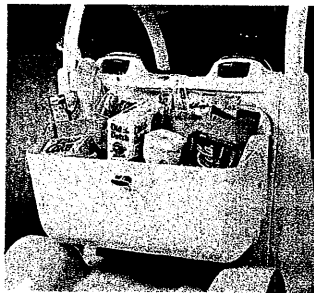
Colors

GEM is available in a varied, vivid palette of hues: green, yellow, white, blue and red. GEM - it's the NEV that's colorful and cute!

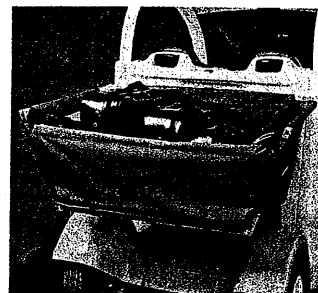


Attachments

GEM's Changeable Modular Cargo Packs let you carry just about anything - from groceries to luggage to golf gear - and these handy units install in no time at all!



Swivel Pack



Utility Pack



Golf Pack



Global Electric MotorCars, LLC

For sales and dealer information:

1-888-871-4367

Fax: (701) 232-0600 www.gemcar.com