## New from Porsche

The Audi 4000 goes on sale in Porsche+Audi dealerships this month. The 4000, smaller than the existing 5000, combines an 34 mpg mileage rating with an oversized fuel tank to deliver a cruising range of more than 500 miles.

# Driving needn't be a gas

By ROBERT RADCLIFFE
National Geographic News

Good news for Americans suffering through their love affair with the automobile: There are legal ways to beat gas-guzzler taxes aimed at cutting the nation's gasoline consumption.

There are ways — intriguing and promising — of stretching gasoline with mixtures, including water, or replacing it with electricity.

Any-minute technological breakthroughs — to quote their inventors — may take the whimsy out of still other alternatives to gasoline and the internal combustion engine.

There's pig power. There's a windup car. There's putting tequila in your tank. There's woodpile propulsion. There's zero-cents-a-gallon sunshine.

Some unconventional fuels and cars have proven get-up-and-go galore. Otrher ways to beat the taxes perhaps are just being born in chemistry labs and home workshops.

**MANY MAY PROVE** to be like the 100-mile-a-gallon carburetor or like the power pill dropped in the gas tank that turns water to gasoline — both apparently only machine shop spectulation,

In 1917, Alexander Graham Bell proposed an alternative fuel. "Alcohol makes a beautiful, clean and efficient fuel, and where not intended for consumption by human beings, can be manufactured very cheaply in an indigestible or even poisonous form."

Today, experiments blend alcohol with as little as 72 percent gasoline. The mixture is called gasohol and improves mileage.

According to one researcher, "There's massive evidence that the best motor fuel by far is plain old rotgut mountain moonshine." But putting tequila or the like in your tank is touchy. A Frenchman said apple brandy gave his car the gallops, but red wine gummed up the carburetor.

Successful tests also have been made of homogenized water and gasoline, though cars need special emulsifying equipment.

**ELECTRIC CARS** still await the super battery that will assure trips of more than 40 to 75 miles without a recharge.

Diesel engines, long admired by engineers, may be coming into their own due to their superior mileage. Other gas-guzzler alternatives:

Steam — powerful, but cars need better boiler-heating fuel; sunshine — Naval Academy students built a battery car that draws electricity from photovoltaic cells spread across the hood; coal — one inventor says a pound of pwwdered coal powers his modified car 10 miles; wood — carbon monoxide and other gases fuel cars efficiently, but gas-generating burners in the trunk restrict driving too far from woodpiles;

Nuclear — a 3,000-pound car woould need 40 tons of engine and radiation shielding; flywhheels — may run a car on as little as a cent a mile, but need a high-spin windup perhaps every 50 miles. Horse and buggy — no longer as cheap to operate as the 2½ cents a mile of 1910;

Manure — 100 pounds from pigs, cattle or chickens, distilled and producing methane gas, may be the equivalent of 30 miles on a gallon of gasoline.

"The Texas cattle country, " said one manure-power fan, "many be tomorrow's Kuwait."


### 880 Pontiac

GRAND PRIX, 1973, good condition, runs well. 535-1781

GRAND PRIX 1975, loaded, new exhaust, battery, brakes, very good condition, $2,400. 879-2880

GRAND PRIX, 19798. Full power, all options, sharp, must see. $5,300. Call after 5pm. 354-6329

GRAND PRIX 1979 LJ, low miles, full power, stereo, air, leather interior, $6,500, after 6pm. 623-7430

GRAND PRIX, 1979, V-6, loaded, executive car, under 40000 miles. $6400. After 6PM. 642-4624

GRAND PRIX, 1978. Triple black, loaded, Landau top. $5695.
BOB JEANNOTTE PONTIAC
Corner of Ann Arbor Rd. & Main, Plymouth
453-2516

GRAND PRIX, 1977, Fully loaded, rally wheels, 2 to choose from. One brown with saddle interior, one silver with burgundy interior. Prices start at $3695.
CRESTWOOD DODGE
32850 Ford Rd. 421-5700

GRAN PRIX 1973, nice shape, $1600 255-0015

GRAN PRIX 1976. Landau top. Full power, mag wheels, air conditioning, console, low mileage. 553-9595

LEMANS 1970. Also Tempest, same year. All or parts. After 3 PM daily. All day weekends. 532-6721

LEMANS 1970, 3 speed, $300 or best offer. 420-3025

LE MANS 1975, air, cruise, power steering, brakes, windows, tilt, am-fm 8 track stereo, must sell. 533-5884

LeMANS 1975, black on black, good condition. Call after 6pm. 459-5262

LEMANS, 1976, Wagon, air, stereo, 9 passenger, rack, $2995.
BOB JEANNOTTE PONTIAC
Corner of Ann Arbor Rd. & Main, Plymouth
453-2516

LEMANS, 1977, Wagon. Power, air, stereo. $2,995.
Matick Chevrolet
14001 Telegraph at the Jeffries
531-7100

LE MANS 1977, 4 door, power, air, etc., good condition, $2,500. 642-8193

LE MANS, 1978 wagon, spotless, 15,500 miles. 477-9558

LEMANS 1979 Station Wagon, loaded, warranty. $6995. 474-7033

PHOENIX, 1978. Landau, V6, automatic, power, air, 8,000 miles. $4295.
BOB JEANNOTTE PONTIAC
Corner of Ann Arbor Rd. & Main, Plymouth
453-2516

PONTIAC, 1970, excellent reliable transportation, new tires, radio, air, $175. Call: 642-8325 after 6 PM.

PONTIAC 1971 Catalina, 2 door. Body good shape, runs good, $350. 681-5344

PONTIAC 1974, 9 passenger wagon. All power, air, new radial tires. Stereo, best offer. 642-3373

PONTIAC 1974, 9 passenger wagon. All power, air, new radial tires. Stereo, best offer. 652-3373

PONTIAC, 1978 station wagon, 7500 miles, excellent gas mileage, loaded. 464-1318

SUNBIRD 1978, AM-FM, air, power steering & brakes, RTS, rustproofed, 15,000 miles. Excellent condition. $4300. After 6PM 643-8565

TRANS AM, 1975, 400 automatic, power steering/brakes, AM-FM stereo, air. Call: 422-0513

TRANS AM, 1976, 455, full power, leather, stereo, tape deck, new tires, 28,000 miles, $5000. 661-1366

TRANS AM 1977, black velour, air, cassette, mint condition, 19,000 miles, loaded. Must sell. $4,900. 353-7014

TRANS AM 1977, fully equipped. Excellent condition. Low mileage. Rustproofed. No winter driving. 937-8111

TRANS AM 1977, Special Edition, loaded. $5900. 455-9034

TRANS AM, 1978, Extra sharp. $5,640. Livonia Chrysler-Plymouth. 525-5000

TRANS AM - 1978, Gold Special Edition. T-top, loaded, 4,000 actual miles. Best offer. 756-4084

TRANS AM 1978, power steering, brakes, air, low mileage, silver, $6,800. 981-1840

TRANS AM, 1978, t-top, loaded, power steering, brakes, windows, doors, low miles. $6800. 261-6827

TRANS AM, 1978. Low Mileage. Sharp. North bros. 421-1376

TRANS AM 1978, 4 speed, excellent condition, loaded. $6500. 538-6927

TRANS AM, 1979, brown, T-top, loaded, 4 wheel disc brakes, 6100 miles. 474-6941

TRANS AM 1979, gold on gold velour, 403 automatic, special performance package, extras, 4,300 miles, $7,200. 981-2417

TRANS AM 1979, gold, t-top, 6.6 litre, velour interior, loaded, 8,000 miles, $8100. After 4PM. 459-3599

TRANS AM 1979 good mileage, auto, air, amfm, ST/CB, $6700 651-5275 375-0262

### 880 Pontiac

TRANS AM 1979, 17000 miles, brown with golden eagle emblem, air, am-fm, deluxe interior, excellent condition. $7300. 755-1700 or 681-3534

TRANS AM 1979 400, 4 speed, 4 wheel disc brakes. Low mileage, loaded. $7,490. after 5 PM. 528-2518

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Grandville 1974, Hardtop, Lime Fire Green, White V-top, matching interior, full power, air, radio & heater.
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Detroit Car Liquidators
23350 Grand River
535-8585

### 884 Volkswagen

VW 1973 Super Beetle, like new, one owner, low miles. $2500 after 5pm. 474-6389

VW 1974 Convertible, 4 speed, AM-FM. Excellent condition. Light blue. $3,900 or offer. 533-0663

VW 1974 Super Beetle, 4 speed, sunroof, AM-FM. 48,000 miles. Excellent condition. $2,600 or offer. 533-0663

### 884 Volkswagen

BUG, 1970, $650. Seven Mile-Middlebelt area. 474-4320

BUG, 1971, AM-FM, 2 new radials, good gas milage, runs well, body in good to fair condition. $800. 453-8245

SUPER BEETLE 1973, automatic, needs minor repair, good condition, regualar gas. $1,300. Call 9AM-1PM 355-2563

VW BUG 1965, everything works, a neat little car. $575. Call after 6pm 557-1392

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### 884 Volkswagen

VW 1973 Camper Poptop, new motor, 5,000 miles, radials, no rust, 25mpg. $2200. 545-3528

VW, 1975, Convertible. Clean. $1,895 Livonia Chrysler-Plymouth 525-5000

VW 1976, Rabbit, 4 speed, custom, zuebarted. Excellent condition. 49,000 miles, $2,999. 528-2132 872-5924

VW 1978 Scriocco, air conditioning, radio, 4 speed, low miles, $5,950 652-4641

WANTED: 1973 VW Micro-bus. Call Jim Monday thru Friday at 962-3825

### 884 Volkswagen

KARMANN GHIA, 1971, excellent engine, 4 good tires, bad body $200, price negotiable. Must sell 349-3334

RABBIT 1977, 2 door, AmFm 8 track stereo, radials, rear defroster, excellent gas mileage, excellent condition. $4000 or best 553-2549

RABBIT, 1979, Diesel, 5 speed, sun roof, silver, new' $7950 360-0516, 360-0103

SCIROCCO, 1977, excellent condition, blue, am-fm, rustpruffed. $5395. After 4PM. 420-0233

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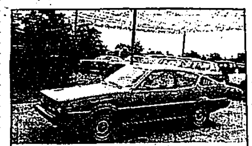

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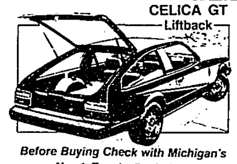

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CUTLAS 1977 Supreme, red-white, vinyl roof, low mileage, console, full power, air, stereo, rear window defogger, tilt wheel & cruise, excellent condition, best offer 568-8357. 335-6294

HORIZON, 1978
4 door, fully equipped. $4395.
COLONY
Chrysler-Plymouth
111 Ann Arbor Rd. Plymouth
453-2255

HORIZON 1979, 4 door, still under warranty. Automatic, power steering, rust proofed, AM-FM. Excellent condition. $5,200 or best offer. 553-4715

LEMANS 1973, good condition, $595. 721-1986

PLYMOUTH VOLARE PREMIERE, 1976
2 door, 6 cylinder, automatic, power steering and brakes, air, half vinyl roof, low miles. $2995.
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PLYMOUTH, 1977, FURYS
Municipal cars. Air, automatic, 8 to choose from. $1000. First come first serve!
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Chrysler-Plymouth
111 Ann Arbor Plymouth
453-2255

PLYMOUTH, 1978. Volare Wagon, air, 318 8 cylinder, automatic, power, 13,000 miles, real sharp. $4295. Bill Brown Ford, 35000 Plymouth Rd 421-7000

PLYMOUTH, 1978. Volare, 2 door, air, stereo, 6 cylinder, 3 speed overdrive, 5,000 miles. Want mileage? Buy this for $4195. Bill Brown Ford, 35000 Plymouth Rd. 421-7000

SAPPORO, 1978, 2600 cc, full power, tape, air, under 1 yr., perfect condition, $6,000. Call 8:30-6:30 647-8350

### 878 Plymouth

SATELLITE 1971, 2 door, 40,000 miles, new exhaust system, battery, transmission, shocks. Runs good. $750. 455-3134

SATELLITE 1974, Sebring, power steering, brakes, automatic, air, am-fm 8 track, excellent condition. 261-2761

STATION WAGON 1969 - $500. Good condition. After 5PM 729-3939

VOLARE WAGON PREMIERE, 1977
Cordovan metallic, luggage rack, automatic, air. Priced right. $2895.
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LINCOLN-MERCURY
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VOLARE, 1976, custom 4 door, 28,000 miles, power steering, brakes, air, rear defog. $2900. 534-4262

VOLARE, 1977 WAGON
Automatic, power steering, beautiful condition. $2899.
COLONY
Chrysler-Plymouth
111 Ann Arbor Rd. Plymouth
453-2255

VOLARE, 1977, 2 door, 6 cylinder, automatic, power steering, low miles. $2,850. Livonia Chrysler-Plymouth 525-5000

VOLARE, 1978
4 door Sedan, power steering, power brakes, air, 2 to choose from. $3899.
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111 Ann Arbor Rd., Plymouth
453-2255

VOLARE, 1978
6 cylinder, automatic, air, power steering, low miles. $3499.
COLONY
Chrysler-Plymouth
111 Ann Arbor Rd., Plymouth
453-2255

### 880 Pontiac

BONNEVILLE, 1979 Brougham Landau. Only 13,000 miles. Loaded. $8,000. Call after 5pm. 455-8006

### 880 Pontiac

BONNEVILLE, 1979, Safari, 9 passenger wagon, GM Exec. 6500 miles, 17-20 mpg, most options. 375-0193

BONNEVILLE, 1974, loaded, good condition, hard top, $950. 642-7677

BONNEVILLE, 1979 Brougham, fully loaded, low mileage, black, $6600. 646-0899

BONNEVILLE 1976 Brougham, loaded. Silver with red velour interior. $2800 or best offer. Call after 5. 569-5884

BONNEVILLE 1979, 4 door, Blue-White, 8,000 miles, automatic, power steering, brakes, cruise, air, AM-FM, & Extras. 17-21MPG. $5,950. 335-8084

BONNEVILLE 1975. Power brakes & steering, air, AM-FM, cruise control, door locks. After 6PM. 559-2548

CATALINA, 1974, 4 door, air, Ziebarted, no rust, low miles, excellent condition. $1075. 879-9117

CATALINA, 1976, Air, cruise, power door locks, radio, extra clean and a real bargain. Monday only $2195.
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CATALINA, 1976, extremely clean, $1,995.
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CATALINA 1978, 2 door, light blue, low mileage, like new. $4275. 352-4777. After 6 661-5575

FIREBIRDS, 1979, 301-V8, power steering and brakes, air, stereo, wire wheels, sport mirrors. 5 to choose from. $5995.
CRESTWOOD DODGE
32850 Ford Rd. 421-5700

FIREBIRD 1976 Formula, 350, 35,000 miles, power steering, brakes, AM-FM, appearance package, Extras. $3,300. After 5Pm 397-3892

FIREBIRD, 1976 Esprit, 350, 29,000 miles, air, power steering & brakes, $3950 Call 585-0600 days. Evenings 352-3631

FIREBIRD, 1977, Formula, low mileage. Sharp. North bros. 421-1376

FIREBIRD, 1978, Formula, custom, loaded, 16,000 miles. Like new. $5770. 354-9603, Anna. Eve., 355-5384

### 880 Pontiac

FIREBIRD 1968, dunked, no rust, no dings, air, automatic, console, rebuilt 350-2, only 300 miles, 15MPG, needs work. 261-2703

FIREBIRD 1978 Esprit, light blue, cloth interior, air, full power, 11,000 miles, like new. 681-5077

GRAND AM 1973. Black, am-fm, air, power steering, brakes and windows. Automatic, $800. 591-0827

GRAND LEMANS 1976 coupe, air, full power, stereo, excellent condition. $3,250. 644-2086

GRAND LE MANS 1978, 21,000 miles, great condition, every option including moon roof and FM-Stereo-Cassette. Dark brown/tan interior, $5,900. Call Mike after 5PM: 644-8455

GRAND PRIX SJ, 1979, GM manager's, Burgundy. A beauty with 6,500 miles. List $3,682, Sell $6,950. After 5PM 643-0539

GRAND PRIX'S, 1977, 4 to choose. From $3295.
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GRAND PRIX 1964, tilt, power windows, bucket seats, floor shift, console tinted glass, fm-8 track. 422-3086

GRAND PRIX, 1979, Claret, air, stereo, buckets, wire wheels, 4,000 miles, G.M. Exec., $5900. 642-1896

GRAND PRIX 1975 LJ, excellent condition, super clean, loaded, must sell, best offer 689-1434

GRAND PRIX 1978, Glacier ice blue, landau, full power, air, stereo, radials, rally wheels, like new condition. $4950. 427-6936

GRAND PRIX 1977, firethorn red, air, stereo, power steering, brakes, 301 V8, many other options, expertly maintained. Real sharp. $4600. After 5pm, 855-9221

GRAND PRIX 1978, LJ, reclining buckets, full power, air, cruise, tilt, stereo cassette, rear defog, alum. wheels, Gages, rustproof, 12,000 miles, $5,495. 464-0927

GRAND PRIX 1978, 11,500 miles, loaded. $5,900. 522-7387

GRAND PRIX 1977, moon roof and stereo, all power, automatic, $3900 or best offer. 474-5591

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'77 T-BIRD
Power, air, vinyl roof, showroom new
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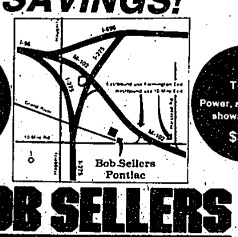


'77 CHEV. NOVA
4 door, 6 cylinder automatic, power steering, power brakes, low miles
$2795

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Power, air, like new
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