



PORSCHE CARS NORTH AMERICA, INC.

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**PORSCHE'S 911 SERIES OFFERS
NEW TECHNOLOGY, HIGHER HORSEPOWER, TIMELESS DESIGN**

RENO, NEVADA, SEPTEMBER 25, 1989 -- Porsche's 911 enters its second quarter-century of production as virtually a new vehicle.

All the models in Porsche's 911 series are technologically new for 1990, yet they retain the timeless design of the original 911.

The all-wheel-drive 911 Carrera 4 introduced in 1989 was the vanguard of the new generation. Now the 911 Carrera 4 is being joined by the rear-drive 911 Carrera 2.

Both models are powered by an air-cooled, horizontally opposed six-cylinder engine located at the rear. The latest version -- a 3.6-liter unit that delivers 247 horsepower -- is the most powerful normally aspirated engine ever used in a production 911.

The high output is possible through the use of a sophisticated engine management system. The Digital Motor Electronics unit controls both fuel injection and ignition to achieve an optimum balance among performance, fuel economy and emissions.

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In addition, power is enhanced by use of two spark plugs per cylinder and an all-metal catalytic converter that allows improved exhaust flow. The unit also has a quicker startup time than more common ceramic-core devices.

Acceleration from zero to 60 mph in the 911 Carrera 4 takes 5.7 seconds. The 911 Carrera 2, being slightly lighter, achieves 60 mph in 5.5 seconds. Both models have a test track top speed of 162 mph.

Both models utilize the new body platform developed for the all-wheel-drive car, and both benefit from the all-new aerodynamic shape. Also, both models will be available in Coupe, Targa and Cabriolet bodystyles. Anti-lock braking is a standard 911 feature for 1990. Also standard is power-assisted steering -- again a first on a 911.

Heralded by many automotive journalists as not only the best Porsche ever, but also perhaps the best sports car ever, the 911 Carrera 4 incorporates sophisticated electronics to control a fully automatic, "intelligent" all-wheel-drive system. Multiple sensors provide data on wheel speeds and transient forces acting on the chassis in cornering, accelerating or braking.

In the 911 Carrera 4, two multi-disc clutches are engaged by the drive system computer as needed. One clutch controls torque division front-to-rear and comes into use any time the "normal" torque split of 31 percent front/69 percent rear needs to be altered. The second clutch acts as a limited-slip differential between the rear wheels. Actuation of the clutches is accomplished by hydraulic pressure and fast-acting solenoid valves.

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A new gearbox feature makes its world debut on the 911 Carrera 2 -- The Porsche Dual Function Tiptronic transmission.

The Tiptronic gives the driver a choice of fully automatic operation or clutchless manual shifting.

Porsche engineers drew on experience with the PDK gearbox of tremendously successful 962C race cars in designing the Tiptronic, the first automatic offered in a 911 in a decade.

Standard appointments on all 911 models include air conditioning, partial leather reclining front seats with electric height adjustment, Blaupunkt's "Reno 2" AM/FM digital stereo cassette radio with eight loudspeakers on the Coupe and Targa and six on the Cabriolet, a four-channel, 100-watt amplifier system, power windows, tinted glass all around with graduated windshield tint, heated windshield washer nozzles, heated outside mirrors, leather-covered steering wheel, electric sliding sunroof and a one-key central locking and alarm system with light emitting diodes in the door lock buttons to show when the alarm is engaged. Power-operated tops are standard equipment on all Cabriolet models.

All Porsche 911 Carrera 2 and Carrera 4 models are equipped with an airbag supplemental restraint system for both driver and front seat passenger.

Every Porsche 911 model is covered by a transferable, two-year bumper-to-bumper limited vehicle warranty with unlimited mileage and a 10-year rust perforation warranty.

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PORSCHE 911 CARRERA 2 COUPE, TARGA, CABRIOLET
1990 Technical Specifications

Engine

Type	Six-cylinder, opposed, air-cooled, gasoline engine
Bore	3.94 in.
Stroke	3.01 in.
Displacement	219.7 cu. in.
Compression ratio	11.3 : 1
Horsepower (SAE Net)	247 hp @ 6100 rpm
Maximum torque (ft. lb.)	228 ft. lbs. @ 4800 rpm
Maximum RPM	6700

Engine Design

Crankcase	Aluminum alloy
Crankshaft	Forged steel, 8 main bearings
Cylinder head	Aluminum alloy, crossflow, hemispherical combustion chambers, two spark plugs per cylinder
Valve train	Single overhead cam, chain driven, solid lifters
Cooling system	Air-cooled, fan is crankshaft-driven via belt
Lubrication system	Dry sump, temperature-controlled oil cooler on crankcase and front oil cooler with temperature-controlled fan
Fuel injection	Digital Motor Electronics (DME) fuel injection and dual ignition systems, both electronically controlled by one control unit
Emission system	3-way catalyst with oxygen sensor

Electrical System

Battery	12 volt, 72 amp./hr.
Alternator	1610 watt, 115 amp.
Ignition system	Digital Motor Electronics (DME) dual ignition system with two spark plugs per cylinder and knock sensor system
Firing order	1 - 6 - 2 - 4 - 3 - 5

Drive Train

Gear ratios:	
1st	3.50 : 1
2nd	2.12 : 1
3rd	1.44 : 1
4th	1.09 : 1
5th	0.87 : 1
Reverse	2.86 : 1
Final Drive	3.44 : 1

Body

Corrosion protection	Unitized, steel
	Entire body of hot-dipped and electro-galvanized steel, all panels coated both sides. Total immersion pre-treatment, cataphoretic primer coating, hot wax cavity filler, PVC under-coating

Suspension

Front	Independent struts with lower wishbones, coil springs, 0.79 in. stabilizer bar
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Brakes	Hydraulically power-assisted, dual circuit; four-piston fixed calipers, anti-lock braking system
Front	Vented discs, 11.73 in.
Rear	Vented discs, 11.77 in.
Wheels	Cast alloy
Front	6Jx16
Rear	8Jx16
Tires	
Front	205/55 ZR-16
Rear	225/50 ZR-16
Steering	Rack and pinion, power assisted
Ratio	18.5 : 1
Turns (lock-to-lock)	2.81
Turning circle	39.2 ft.
Capacities	
Engine	12.15 qts. (with filter)
Fuel tank	20.3 gal.
Dimensions	
Wheelbase	89.4 in.
Track:	
Front	54.3 in.
Rear	54.1 in.
Overall length	168.3 in.
Overall width	65 in.
Height (unladen)	52 in.
Ground clearance (laden)	4.72 in.
Curb weight	3031 lbs.
Performance	
0-60 mph	5.5 sec.
Top speed	162 mph
Coefficient of drag	.32
Fuel Economy	
City	16 mpg
Highway	24 mpg

PORSCHE 911 CARRERA 2 COUPE, TARGA, CABRIOLET

1990 Features and Options

Powertrain

- 3.6-liter, 247-horsepower, aluminum alloy, air-cooled, horizontally opposed, 6-cylinder engine with partial engine encapsulation
- 5-speed manual transmission
- Hydraulically activated single-disc dry clutch
- Fully integrated electronic ignition and electronic fuel injection system (DME)

Chassis

- Rack and pinion steering with power assist
- Fully independent suspension: front strut and wishbone; rear semi-trailing arms; stabilizer bars - .79 in. in front and .83 in. in rear
- Power-assisted, internally ventilated, four-wheel disc brakes with anti-lock system
- Cast-alloy wheels with locks: Front, 6Jx16 with 205/55 ZR 16 steel-belted radial tires; rear, 8Jx16 with 225/50 ZR 16 steel-belted radial tires
- 20.3-gallon fuel tank

Exterior

- 2-door coupe with 2 + 2 seating
- Fog lights integrated into the front apron
- Halogen headlights
- Welded, unitized construction; double-sided, zinc-galvanized steel body
- Speed-dependent extendable rear spoiler

Interior

- Reclining bucket seats with electric height adjustment
- Air conditioning with automatic full climate control
- Partial leather seats
- Leather-covered steering wheel
- Analog instrumentation with tachometer and gauges indicating oil pressure, oil temperature, fuel level and battery charge, and oil level
- Trip odometer
- Electrically adjustable and heatable outside rearview mirrors
- Heated windshield washer nozzles
- Power windows
- Brake pad wear indicator
- Mirrors in sun visors
- Cruise control
- Electric sliding sunroof
- Power operated top on Cabriolet
- One-key central locking and alarm system with light-emitting diodes in the door lock buttons to show alarm is engaged

- Blaupunkt Reno II AM/FM digital stereo cassette radio
- Windshield antenna with signal amplifier
- Rear window defroster
- Tinted glass all around and windshield with graduated tint

Warranties

- 10-year, limited rust-perforation warranty with unlimited mileage
- 24-month, limited vehicle warranty with unlimited mileage

Options

- Compact disc player
- Heavy duty windshield cleaning system
- Headlight washers
- Front seats with adjustable heating
- Full power seats for driver and passenger
- Electric lumbar support for driver and passenger seats
- Sports seats with electric height adjustment for driver and passenger
- Rear window wiper on Coupe, Targa
- Installation kit for cellular telephone including wiring, antenna and console
- Supple, gathered-leather seat upholstery front and rear
- Metallic paint
- Limited slip differential
- Forged alloy wheels
- Tonneau cover to match convertible on Cabriolet