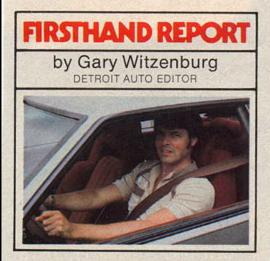
# Popular Mechanics, October 1981

Taken from: http://www.celicasupra.com/media81.htm



Celica Supra is powered by a dohc fuel-injected Six that produces 145 hp. Pop-up lights distinguish Supra from the other models.



Toyota built its first double-overhead-camshaft (dohc) engine for its beautiful prototype 2000GT sports car in 1965 and began selling twin-cam Sixes and Fours in production cars two years later. Since that time, some 400,000 of the exotic Toyota engines have been produced for both street and racing cars.

Latest in the series, a fuelinjected, 145-hp, 2.8-liter dohc Six,

# Driving the 1982 Toyota Celicas

comes to the United States as standard equipment in Toyota's all-new Celica Supra. And that's just one of the high-zoot features in this Camaro-class Nipponese flyer.

Toyota's Celica, a perfectly adequate and well-built sporty coupe at a reasonable price, has been around since the early 1970s. The mid-'70s brought the original liftback, which looked like an old Mustang fastback, and then the cleanly restyled nextgeneration coupe and liftback.

This year, the four-cylinder Celica sports all-new sheet metal and a host of new features and refinements. It's a half-inch longer, an inch wider and over an inch taller, has wider tread front and rear, and a bit more front leg- and headroom. Rack-and-pinion steering replaces the former recirculating ball; there are vented front disc brakes vs. the previous solid discs, headlamps that flip up to vertical from their normal, aerodynamically angled positions, and slick new formal coupe and liftback body shapes—the latter of which splits Japanese wind-tunnel air with an impressive 0.34 coefficient of drag (Cd), which is equal to that of the Porsche 924.

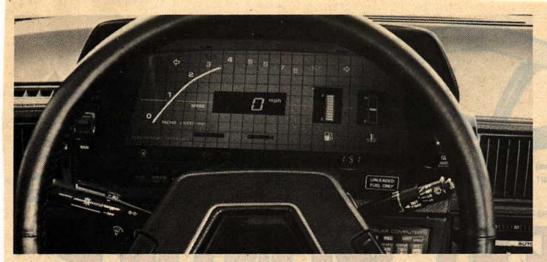
But the new Supra is a whole different ball game. In addition to the new, electronically injected, twin-(Please turn to page 138)

Standard Celicas, available in both notchback and fastback bodies, are equipped with a 2.4-liter, sohc Four which yields 96 hp.

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Digital dash with a tachometer that simulates a torque curve is rather gimmicky, but we liked it. Among the other features are a trip computer and eight-way adjustable seats.

# **DRIVING THE 1982 TOYOTA CELICAS**

cam engine, it boasts semi-trailingarm independent rear suspension, variable-assist power rack-andpinion steering, four-wheel ventilated disc brakes, a limited-slip differential, pop-up halogen headlamps and a choice of five-speed manual or four-speed lockup overdrive automatic transmission.

Inside are a space-age, eight-way adjustable driver's seat with an airbladder lumbar adjuster, videogame-look digital/graphic instrumentation, a five-speaker homequality stereo system and a super trip computer.

So special are these new cars to Toyota that the company brought us all the way to Japan to see and drive them, which we did at the Fuji Speedway road-racing course.

# Home-grown design

The styling, though a bit controversial, tends to grow on you. Interestingly, the previous Celica, considered a design coup and very successful in America, was styled by Amer-

#### (Continued from page 113)

clichéd, American-style, formal coupe. But at least the coupe doesn't come with a half-vinyl roof and coach lamps.

# The Celica models

The Celica's shovel-nose front looks functional but seems a bit too radically sloped, and the "rock-forward" headlamps are too cute and gimmicky. The big front bumper is significantly changed. The 2.4-liter, overhead-cam, four-cylinder engine (which Toyota builds especially for the American market) puts out the same willing 96 hp at 4.800 rpm and the same 129 ft. lb. of torque at 2,800 rpm as it did before; the MacPherson-strut front and live-axle, coilspring rear suspensions give about the same ride and handling; and the whole feeling is very familiar: competent and adequate, but less than thrilling.

There is better steering response from the new rack-and-pinion steering, and the cars seemed to corner better around the speedway than I

percent more torque than last year a modified MacPherson-strut from suspension (offset spring for les friction and twice as much caster fo improved on-center steering feel variable-boost (less assist at highe speed) power rack-and-pinion steer ing replacing the old recirculatin ball, and fully independent rear sus pension instead of the previous liv axle. The result is livelier perfor mance and tremendously bette handling, especially from the mean looking, big-tired, flared-fendere version, which Toyota calls its Per formance Pack.

There was no opportunity fo straight-line acceleration testing but Toyota says the Supra does 0 t 100 kph (62 mph) in 8.8 seconds and quarter-mile from rest in 16.4 sec onds. Subjectively, we felt the new Six's power was inadequate, partic ularly at off-the-line low rpm, con sidering the cost and the complexit of its dohc valve train. Another 15 o 20 hp would be very helpful in prop erly propelling the Supra's 2,90 pounds-especially that Perfor mance Pack version. The five-spee manual transmission, however, excellent, the four-speed lock-u overdrive automatic is one of th industry's best, and the four-whee disc brakes were exceptional in stor ping power and fade-free stability.

#### Incredible eight-way driver's sea

The Supra's cockpit was basicall the Celica's with more flash and gad getry. Personally, we liked the Sta Wars video dashboard. But it shoul have some sort of oil-pressure gaug and either ammeter or voltmeter The incredible eight-way driver seat sets a new industry standar for adjustability-fore/aft, recline headrest vertical, headrest fore/af seat height thigh support and ac ered a design coup and very successful in America, was styled by Americans in Toyota's California Calty Design studio—and was not very successful in Japan.

This time around, they did it themselves, trying to please their own countrymen, as well as everyone else. The result is an aggressively handsome fastback shape somewhat spoiled by overdecoration and incongruity of detail at both ends, and a

SPECIFICATIONS: 1982 TOYOTA CELICA		
1304	Liftback, coupe	Supra
Wheelbase (in.)	98.4	103.0
Length (in.)	176.6	183.5
Width (in.)	65.6	66.3
Height (in.)	52.0	52.0
Curb weight (lbs.)	2,559	2,910
Engine (cyl./type)	4/in-line	6/in-line
Valve train	sohc	dohc
Displacement	2.4 liters	2.8 liters
Horsepower/rpm	96/4,800 rpm	145/5,600 rpm
Torque/ftlb.	129/2,800 rpm	155/4,400 rpm
Fuel cap. (gal.)	16.1	16.1

ing, and the cars seemed to corner better around the speedway than I expected-due partly to the increased tread width, but largely due to the better-than-stock tires fitted to our test cars. The interior, of course, is all-new and very nice, with a full set of gauges (attractive and functional) in the panel, tasteful decor and trim and a new heating system that allows left/right mixing so both driver and passenger are comfortable. There's also, at least, almost enough legroom for longlegged American drivers. The only two sour notes (for me) are the inverted "V" steering hub (I still think the spokes should be horizontal for proper driving) and a flip-up ashtray lid that interferes with the radio controls.

# The Supra model

The Supra, on the other hand, has 25 percent more horsepower and 7

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headrest vertical, headrest fore/af seat height, thigh support and ac justable air-bladder lumbar suppor for driving comfort. There's a littl rubber squeeze pump to inflate th lumbar bladder and three button on the side bolster to exhaust air i just the right places to conform pre cisely to your shape and preference Another gimmick, perhaps, but darned clever one.

The radio, in recent Japanes fashion, is marvelous in its hi-tec look, sound and complexity. An there's a trip computer in the dash

The neatest gadget of all, however, a Navicom computer-controlle electronic compass that graphicall displays direction and distance to precoded destination, is for the Jap anese home market only. We under stand they can't produce enoug Navicoms this year to offer them is export cars. Or maybe they figur we wouldn't understand it yet.