

CAR AND DRIVER ROAD TEST

BUICK RIVIERA GS

Happiest on the highway. the GS handles and stops despite its size



The Buick Riviera has been an un-■ abashed favorite of C/D almost from the date of its introduction. though our enthusiasm reached some sort of high water mark in 1965, when the lithe Gran Sport hit the stands. It would therefore seem logical that the latest Riviera GS. sheathed in all that slinky bodywork, should send us soaring like a flock of lovesick pigeons. Certainly the Riviera GS is one of the most beautiful automobiles to reach the American market. Its fastback styl-

kind on a car of such formidable dimensions, and its drive train and suspension make it one of the bestperforming big cars in history. Therefore, if we loved the old car, we should go clean out of our skulls for the new one, right?

Essentially that is the case. The Riviera GS spent a considerable amount of time in our hands, including a weekend during which we took a long, high-speed, cross-country trip to Indianapolis for the opening session of time trials for the 500what we expected it to be, though its approximate two-inch increase in overall length, wheelbase and girth was readily apparent.

Larger size notwithstanding, this Riviera is still at its best on openroad jaunts with two or three people and their luggage. Despite adequate rear seats (note that we didn't say spacious), Riviera owners are advised to limit their complement to three for trips of any distance, because the trunk space is decidedly on the modest side. However, the ing is the most successful effort of its | mile race. The GS was pretty much | GS is big enough, both in terms of

Its quick steering, plus an excellently located three-link rear suspension give the Riviera Gran Sport a level of lateral stability rarely found on a car of this bulk. The GS goes where it's pointed.

overall measurements and engine size, to make it fairly uncomfortable in a crowded urban environment. Its soft but well-located suspension is keyed to negotiating smooth medium-to-high-speed bends, not rightangle intersections, and its two fourbarrel carburetors (a dealer installed option yielding 360 hp-20 more than the standard 340-hp single 4-barrel engine) feed its 425 cubic inch engine more efficiently at 50-80 mph than in sluggish city traffic. We're not saying the Gran Sport is bound to protest in congested metropolitan conditions; it's far removed from the high-performance machines that balk at heavy traffic by fouling plugs, stalling, and overheating.

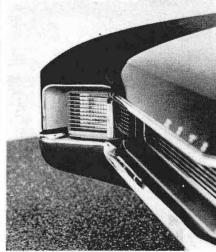
On the contrary, the GS remains composed at all times, although it insidiously punishes its driver by gulping as much as a gallon of gas for every ten miles traveled, and making its increased bulk apparent in every cramped driving maneuver.

Our test car was equipped with practically all of the available GS options, with the exception of the front bucket seats and console. In their stead came the highly satisfactory bench seat that has enough contouring to create a "bucket" effect for lateral support of both driver and front seat passenger. The console, floor shift, and bucket seat combination gave older Rivieras much of their unique characterwithout these features, the car loses a lot of its original charm. The absence of the console means that the shift linkage is on the steering column, which makes it more difficult to take advantage of the Riviera's superb Turbo Hydra-Matic threespeed automatic transmission. This unit can be manually down-shifted for additional engine braking or acceleration, but it becomes complicated when the driver is forced to fiddle with the rather inaccessible, somewhat imprecise shifting lever on the steering post. Because the console-mounted shifting mechanism makes it so easy to use the Turbo Hydra-Matic transmission for manual gear-changes, we would recommend that anyone planning to use a they would center on the stylish

GS for vigorous driving spend the extra money for its installation.

The interior of the car is both efficiently conceived and entirely livable—especially with the optional air conditioning that precludes the necessity of opening the cavernous side windows for ventilation. As on the Oldsmobile Toronado (whose body shell it shares), the Riviera is equipped with stylish, one-piece side windows that may be the biggest ever installed on an automobile. Air conditioning makes window-opening unnecessary, as does Buick's excellent interior ventilation system, which is designed to admit air along the cowl, circulate it through the passenger compartment and exhaust it at the rear.

In addition to simplifying the entire equation of door design, the



one-piece windows have the added benefit of reducing interior noise levels, and in this sense the Riviera is superb. Coupled with top-caliber sound damping throughout the body, the slippery shape and the elimination of air turbulence around the windows, the GS is one of the most silent automobiles C/D has had the pleasure of testing.

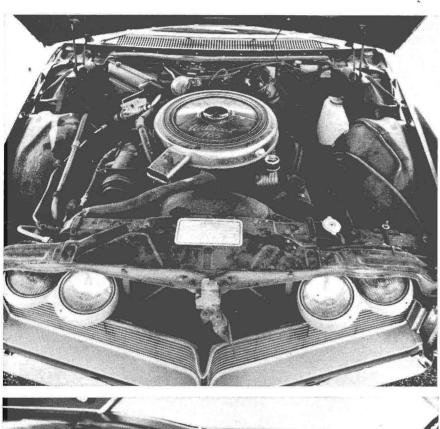
We found the driver's compartment generally hospitable, thanks to a full set of gauges and the proper spatial relationship between the seat, pedals and steering wheel. If we had to register complaints.

(read confusing) wiper and washer controls, the nearly opaque band of tinting that runs across the top of the windshield, and the cigar lighter and ash tray, which are located a gorilla's arm-length away from the driver's seat. In all, however, the interior of the GS is ideally suited to the civilized driver whose travel requirements make day-long drives a fact of life.

With all of those cubic inches operating under the hood, there is a turbine-like smoothness about the Riviera. The torque multiplication of the Turbo Hydra-Matic is really outstanding, especially at low speeds, and the GS is an exceedingly supple and responsive vehicle, despite its size. Our test car was equipped with the optional 3.42 final drive ratio (a 3.23 is standard), which provides the car with effortless capability for high cruising speeds. On one leg of our trip, we cranked off two hours on a new Interstate highway at better than 80 mph, traveling at sensible levels of both silence and safety. The mileage check gave us 13 miles per gallon—the best we were able to record with the GS.

The optional Gran Sport power steering, featuring a relatively tight 15:1 ratio, was a genuine boon. Obviously the car understeers, but it remains controllable at all times, practically eliminating the danger of plunging into a corner too fast and running helplessly straight on with the wheels cut over at full lock. The quick steering plus the excellently located three-link rear suspension give the GS driver a level of lateral stability rarely found on such a big car. The GS steers where it is pointed, is not vulnerable to crosswinds and will corner with amazing alacrity.

We nevertheless have two basic complaints about the handling; the shock damping and the tires. As in the Buick Skylark we tested in March, 1966, we found the Gran Sport's generally excellent suspension to be hampered by mediocre shock control. Our test car had something over 6000 miles on the odometer and several testers initialThe GS' finned aluminum front brakes provide ample stopping power, but we'd like to see discs on the Riviera. While we're at it, we'd recommend that Buick use Koni shocks to stiffen up the ride and prevent bottoming.





ly thought the shock absorbers were worn out. This was not the case. because Buicks as a whole seem to employ the least effective shocks in various classes. Obviously their inaction is felt most on rough or undulating road surfaces, where the suspension begins a cycling action that can eventually get the GS out of shape. Bottoming was not as serious a problem as it was with the Skylark GS, though we felt it might become a problem with two people in the rear seat. With its otherwise excellent suspension layout, it seems a shame that such a flaw exists, and we would urge any prospective GS purchaser to include the cost of Koni shock absorbers when considering the overall price.

The Gran Sport we tested carried 8.45-15 Goodyear Power Cushion tires which were just plain spooky in wet weather. Their adhesion wasn't up to the demands of the Riviera's 465 lbs./ft. of torque under acceleration, or to absorbing its considerable side loads under cornering. Perhaps when radial-ply tires become generally available for the Toronado, Oldsmobile's sister division might be persuaded to offer them as optional equipment on the big Buicks as well.

The finned aluminum front brakes that Buick uses on the Riviera are probably as sophisticated as a drum brake can be, though the time has come for the Gran Sport to be equipped with disc brakes, probably on all four wheels. The present 'brakes will stop 'the car in satisfactory fashion (with an able assist from the suspension that nullifies nose-dive and rear-axle hop), but this is the day of the disc brake, and General Motors ought to catch up with the times.

As it stands, the Riviera Gran Sport rates high with C/D's enthusiast audience. Our readers voted it the best full-sized sports sedan in the 1966 edition of our Readers' Choice poll. Buick set out to build a big, luxurious, sporting car, and by the number of votes they piled up, they must be doing something right.

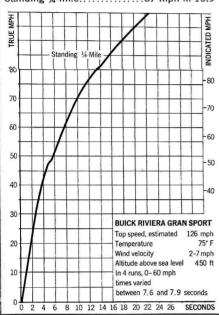
BUICK RIVIERA GRAN SPORT

Manufacturer: Buick Motor Division General Motors Corp. Flint, Mich.

Price as Tested: \$6,115.24

ACCELERATION

Zero To																									sk
30 mph.																								2.	.6
40 mph.				•																				3.	.8
50 mph.		•			 	ì				ũ							ì				ũ			5.	.7
60 mph.											ï			ï							0			7	.7
70 mph.						ĵ.																	1	0	.1
80 mph.																					ū	į.	1	3	.1
90 mph.																									
100 mph.											į.												2	2	.8
Standing	1/4-1	m	il	_								R	7		n	n	r	ŀ	1	i	n	1	1	5	9



ENGINE

Water-cooled 90° V-8, cast iron block, 5 main

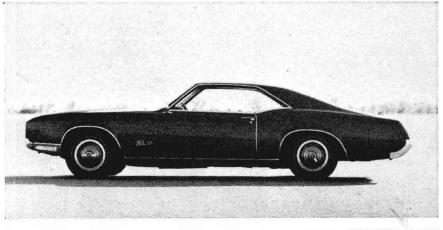
DRIVE TRAIN

ransmission......3-speed, automatic, plus torque converter Transmission

			111011/1000	wax
Gear	Ratio	Overall	rpm	mph
Rev	2.08	7.11	-11.4	-57
151	2.48	8.48	9.6	48
2nd	1.48	5.06	16.0	80
3rd	1.00	3.42	23.7	120
Final d	Irive ratio		3.42	to one

CHASSIS

Cruciform channel frame, all-steel body
Wheelbase119.0 in
Track F 63.5 R 63.0 in
Length211.2 in
Width78.8 in
Height53.4 in
Ground Clearance4.8 in
Curb Weight
Test Weight4835 lbs
Weight distribution front/rear54/46%
Pounds per bhp (test weight)13.43
Suspension F: Ind., unequal-length wishbones.
coil springs, anti-sway bar
R: Rigid axle, two trailing arms.
R: Rigid axie, two trailing arms.







CHECK LIST

ENGINE

Starting			Į.	•			•		•			į.		Very Good
Response							•						٠.	Good
Noise		•				•					٠			Excellent
Vibration.	•					•	•	•						.Excellent

DRIVE TRAIN

Clutch A	ction		
Transmi	ssion Linkag	ge	Poor
Synchro	mesh Action		
Power-To	o-Ground		
Transr	nission		Very Good

BRAKES

ResponseExcellent
Pedal PressureExcellent
Fade ResistanceGood
SmoothnessVery Good
Directional StabilityGood

STEERING

Response		.Good
Accuracy	cygrama a Variancement a sa e	.Good

SUSPENSION

Harshness Control	Good
Roll Stiffness	
TrackingVe	
Pitch Control	
Shock Damping	Poor

CONTROLS

Location	Excellent
Relationship	Excellent
Small Controls	Fair

INTERIOR

Visibility	Very Good
Instrumentation	Excellent
Lighting	Very Good
Entry/Exit	Good
Front Seating Comfort	Good
Front Seating Room	Excellent
Rear Seating Comfort	Fair
Rear Seating Room	Poor
Storage Space	Good
Wind Noise	Excellent
Road Noise	Very Good

WEATHER PROTECTION

Heater	Excellent
Defroster	.Very Good
Ventilation	Excellent
Weather Sealing	. Very Good
Windshield Wiper Action	

OUALITY CONTROL

Materials, Exterior	Very Good
Materials, Interior	
Exterior Finish	
Interior Finish	
Hardware and Trim	Excellent

GENERAL

Service Accessibility	Fair
Luggage Space	Poor
Bumper Protection	. Good
Exterior LightingVery	y Good
Resistance to Crosswinds	. Good