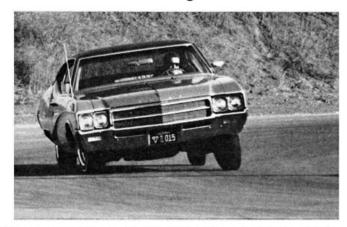
FIVE INTERMEDIATES AS FAMILY CARS

Buick Skylark





Pontiac Le Mans



PHOTOS BY GORDON CHITTENDEN, PAUL HANSEN AND SCOTT MALCOLM



Plymouth Satellite

Intermediates, equipped for dayto-day transportation and driving. The result was something else. The tests showed what the five cars offered, but the lasting impression was that the buyer of a family car can, and should, ask for more than what the group had to offer.

Last year, CAR LIFE tested four standard-size cars, with small V-8s and automatic transmissions. They were quiet, soft, and slow, with unfavorable power-to-weight and bulk-to-interior space ratios.

The Intermediate market keeps getting bigger and bigger, and mid-range V-8s are offered in almost every line. We took the hint, and arranged to test Intermediates, hardtops with mid-range engines, automatic transmissions and whatever other equipment the makers happened to put on the test cars.

Deliberately, the test cars were not identical. They were not all intended to be test cars: The Plymouth was borrowed from the fleet provided for the company's own use, and the Skylark was kidnapped by Buick's PR men from the wife of a GM subsidiary executive. The Chevelle had the hot version of the mid-range V-8. It and the Tempest were four-door hardtops, for comparison of body styles with the two-door Skylark.

Some of the results were predictable. Base price of an Intermediate is less than a standard from the same maker. so the buyer can get some extra equipment for the same total cost. The lighter cars with bigger engines were, as a group, faster than the standards a plus, we think, for anybody who ever gets onto a highway or goes up a mountain.

But each of our test cars lacked in some respect, even when driven in the good old American Gothic manner. Something—whether tire adhesion, balanced brakes, adequate power, predictable controls, rear vision—was needed.

Now we do not expect a Chevelle to corner like a Corvette, a four-door Tempest to out-drag a GTO, or a Buick to stop with a Formula car. We do expect, no, demand, any car, not just enthusiast jobs, to have enough

Ford Fairlane

CORNERING POWER of the five test cars ranged from the Plymouth's good, to frightening for the Buick and Pontiac. The testers set a target speed of 40 mph. The Buick, upper left, is going slower than that, at its limit. The Ford, upper right, could do it, with more power needed to push the front wheels around. The Plymouth, lower left, drove through without drama. The Pontiac, lower center, has also dropped below target speed. The Chevelle, lower right, was better than its big brothers because it had more power and a lighter engine, and the driver could change the car's attitude with the throttle. Handling packages are optional for the three General Motors cars. We recommend them.



CAR LIFE ROAD TEST

Chevelle Malibu

tire adhesion for evasive maneuvers, non-locking brakes to allow predictable emergency stops, and power for reasonable freeway merging.

The most common deficiency was the lack of suspension control. None of the cars had a handling or towing option. They varied in degree, but all leaned during hard cornering, and bounced and swayed more than comfort demanded. Family cars aren't expected to handle like sports cars. When compromise time comes, as it always does, the factories always pick the boulevard ride. But some handling capability must stay, so the driver can cope with, say, a sudden lane change or a corner that's sharper than it looked. Steering and ride should pro-

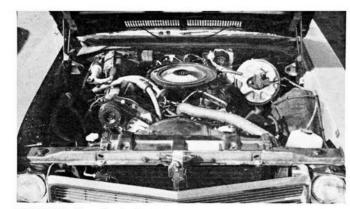
vide the driver with a feeling for the road, and what the car is doing on it. He'll pay attention, and maybe, even, enjoy the drive.

The Plymouth had the best handling again this time, as it did last year. The Satellite was closer to neutral, with front and rear tires doing the same amount of work, the result of good front suspension geometry, slightly higher roll stiffness and tighter suspension movement. All passenger cars being produced now use rubber bushings in the suspension, to isolate the body from the shocks and bangs being dealt to the wheels. What they gain in silence they lose by the addition of another place to flex. The Plymouth had the bushings, but they seemed to be

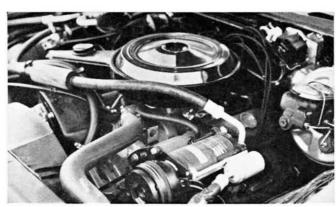
made of firmer rubber than the others were.

The Fairlane was next. It was a heavier car, especially in front. Once the Fairlane was tilted as far as it would go, the car achieved a sort of stable understeer, with the front plowing ahead at a fixed rate. The steering was heavy (while the Plymouth's was lighter than it might be), but the Fairlane responded well.

The Chevelle and the Tempest both had severe understeer, mushing grumpily toward the outside of fast turns at the Orange County Raceway road course at relatively low speeds. But they both had Goodyear Polyglas tires. The Skylark has the 112-in. wheelbase shared by the two-door "A"-body



MILD 350-cid engine in Skylark was tuned for economy. The mileage wasn't impressive, though, and the car was slow.



PERFORMANCE 350-cid Chevrolet had the most power, and still turned in impressive acceleration and mileage figures.

continued

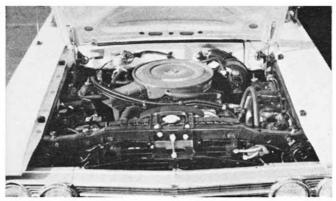
GM cars and the Chevelle and Tempest had the 116-in. wheelbase of the longer A-body cars. The book says the Skylark should be nimble, and the others closer to balance. The tires never read the book. The OEM tires on the Skylark had less grip than did the belted cross-ply Polyglas tires, and the Sky-

lark simply wouldn't respond. It had a lovely ride, and feather-light controls. We're sure the lady from whom it was borrowed likes it, and we hope she never really tries to drive it.

The Oldsmobile W-31 tested on page 56 was at the track at the same time. Due to reasons listed in that road test, it was an enthusiast's car, not a family car. But it was just as comfortable, and it had superior handling. We think the W-31's rear anti-sway bar made a lot of the difference. Olds is the only

factory using such bars on passenger cars, although Pontiac is reported to have one in the works for its intermediates. The family man willing to go past his dealership for a better car might well investigate the possibilities of adapting an Olds bar to his A-body GM Intermediate.

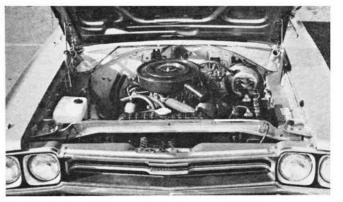
The Fairlane had the best brakes. It was just barely a contest. Ford's front disc/rear drum system works beautifully, every time we test it. The Pontiac recorded a higher deceleration fig-



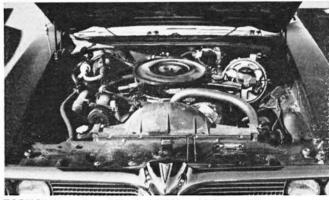
MID-RANGE Ford 351 works well at low speed, but runs out of breath quickly. The 351 is an enlarged 289 V-8.

ure on the first hard stop, but the overall Ford performance was clearly superior, because of its better balance and ease of modulation near lock-up. Consistent stops in the 25-26 ft./sec./ sec. range earned a rating of excellent, even though the best domestic brakes are causing us to raise our standards all the time.

The Chevelle gave two CAR LIFE staffers a scare. It, like the Pontiac, had discs and drums, and we expected great things. On the first test stop, the



SURPRISE of the group was the Plymouth 318-cid V-8. It was the smallest, but turned the second-best times.



ECONOMY version of Pontiac's 350 wouldn't go, and worked so hard it burned as much fuel as a performance engine.

1969 SKYLARK **BUICK TWO-DOOR**



DIMENSIONS

Wheelbase, in
Track, f/r, in
Overall length, in200.7
width75.6
height53.4
Front seat hip room, in54
shoulder room58
head room38
pedal-seatback, max42
Rear seat hip room, in53
shoulder room57
leg room32
head room36
Door opening width, in42
Trunk liftover height, in32

PRICES

List, FOB factory	52/19
Equipped as tested	\$4004
Options included: 230-bhp V-8,	\$111;
automatic transmission, \$185;	pow-
er steering, \$100; power br	akes,
\$42; AM radio, \$70; air cond	tion-
ing, \$376.	
.1.400-0.0000000000000000000000000000000	

CAPACITIES

No. of passengers									. 5
Luggage space, cu.	ft.							.1	14
Fuel tank, gal									
Crankcase, qt									
Transmission/dif., I	ot.						1	9/	13
Radiator coolant, qt								.1	14

CHASSIS/SUSPENSION

Frame type: Perimeter.
Front suspension type: Independent
by s.l.a., coil springs, telescopic shock absorbers.
ride rate at wheel, lb./in112
antiroll bar dia., in0.895
Rear suspension type: Live axle, coil
snrings, two upper and two lower
trailing arms, telescopic shock absorbers.
ride rate at wheel, lb./in101
Steering system: Integral assist re- circulating ball gear, parallelogram linkage ahead of front wheels.
overall ratio20.9:1
turns, lock to lock4
turning circle, ft. curb-curb38.6
Curb weight, Ib
Test weight
Distribution (driver),
% f/r56.1/43.9

BRAKES

Type: Drums front and rear.	
Front drum, dia. x width, in9.5 x 2	.5
Rear drum, dia. x width9.5 x 2	.0
total swept area, sq. in268	3.6
Power assist: Integral.	
line psi at 100 lb. pedal83	30

WHEELS/TIRES

Wheel rim size1	4 x 5.0 J
optional size	none
bolt no./circle dia. in	
Tires: Firestone Deluxe Cha	
size	.7.75-14
normal inflation, psi f/r	26/28
Capacity @ psi5440	a 26/28

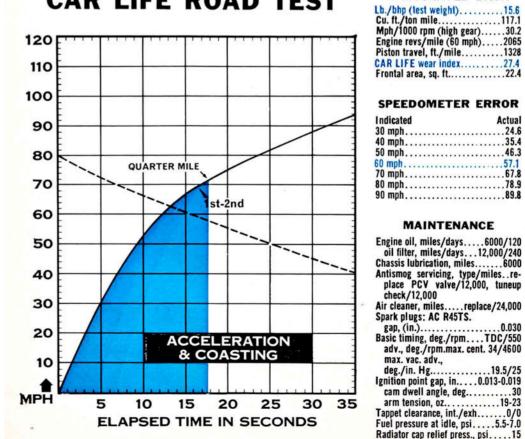
ENGINE

Type, no. of cylV-8 Bore x stroke, in3.80 x 3.85
Displacement, cu. in
Fuel requiredregular
Rated bhp @ rpm230 @ 4400 equivalent mph133
Rated torque @ rpm350 @ 2400 equivalent mph72
Carburetion: Rochester 1x2. throttle dia., pri1.44
Valve train: Hydraulic lifters, push- rods and overhead rocker arms. cam timing
deg., int./exh24-78/70-38 duration, int./exh282/288
Exhaust system: Single with cross- over, reverse-flow muffler.
pipe dia., exh./tail2/2 Normal oil press.@ rpm37@ 2400
Electrical supply, V./amp12/37
Battery, plates/amp. hr66/61

DRIVE TRAIN

Transmission type: Two-speed auto-
matic with torque converter.
Gear ratio 2nd (1.00:1) overall. 2.56:1
1st (1.77:1)4.71:1
1st x t.c. stall (2.25:1)10.60:1
Shift lever location: Steering column.
Differential type: Hypoid.
axle ratio2.56:1

CAR LIFE ROAD TEST



CALCULATED DATA

MAINTENANCE

oil filter, miles/days...12,000/240

Chassis lubrication, miles......6000

Radiator cap relief press., psi.....15

max. vac. adv.,

Lb./bhp (test weight)15.6	Top speed (3600), mph109
Cu. ft./ton mile117.1	Test shift points (rpm) @ mph
Mph/1000 rpm (high gear)30.2	1st to 2nd (4000)69
Engine revs/mile (60 mph)2065	
Piston travel, ft./mile1328	
CAR LIFE wear index27.4	
Frontal area, sq. ft22.4	

ACCELERATION SPEEDOMETER ERROR

SPEEDOMETER E	KKUK	0-30 mpii, sec
Indicated 30 mph	Actual 24.6	0-40 mph
40 mph	35.4	0-60 mph
60 mph	57.1	0-80 mph
80 mph	78.9	Standing ¼-mile, sec
90 mph	89.8	Passing, 30-70 mph, sec

PERFORMANCE

Max. deceleration rate from 80 mpt ft./sec./sec
No. of stops from 80 mph (60-sec. in
tervals) before 20% loss in decel
eration rate
Overall brake performancefair

FUEL CONSUMPTION

Test conditions, mpg
Normal cond., mpg14-16
Normal cond., mpg14-16 Cruising range, miles240-32

46 CAR LIFE MARCH 1969 47







SCARY MOMENT came when Chevelle locked one wheel during brake test, and spun the car half-way around. The flaw was the fault of the one car, but Chevrolet's high-boost power brakes magnified it. The light pedal is difficult to modulate.

continued

right front disc grabbed. The driver kept the pressure on, thinking he could wrench the car straight. He couldn't, and it spun 180° before he could correct.

The Chevelle gets what must be the most negative plus ever awarded to a CAR LIFE test car: It spun in its own lane. Had there been an emergency, the Chevelle would have stayed in a straight line, and crashed into the immovable object backwards.

With consistency. The photographer wasn't there when it happened the first time. When the editor found out, he

asked the driver if he could do it again. Sure, said the tester, who makes up with confidence what he lacks in smart. The next day, on a wet track, he stationed the photographer at the right place, reached the right speed, put his foot hard on the pedal, and did it again.

This is described in detail not to put the hurt on Chevrolet, but to illustrate



DRUM BRAKES on test Buick produced low deceleration rates and faded quickly. They are not up to vigorous driving.



LEVEL Plymouth doesn't illustrate stiff springs. The rear wheels lock so quickly that the fronts can't do any work.



TIPPED Pontiac is coming to a short, straight stop. Disc brakes are rapidly becoming a delete option, and we approve.

a point we think is important. The locking brake was a fault in this individual car, not the system as a system. But Chevrolet builds so much boost into its power brakes that easing up by precisely the right amount in a tight spot is all but impossible. If a car has a flaw-grease on a pad, maybe, or a loose wheel bearing-the booster magnifies it. With practice, a driver can

manage. The Chevelle was put through the full test, and performed acceptably. But it's the kind of practice the average driver wouldn't get.

The Plymouth and Buick both had drums front and back, and their braking suffered for it. Neither would record an acceptable deceleration rate on the first stop (the Plymouth had a rear wheel that locked too easily, we suspect because of oil on the shoe) and they faded quickly.

Interesting bit of philosophy connected with the brake tests. Chevrolet puts the front discs on all its test cars, and all the cars put to corporate use. We suspect Pontiac does the same. We haven't seen a test Pontiac with front drums for some time. So does Ford, which goes the extra mile. If a buyer

1969 SPORT SATELLITE

PLYMOUTH



DIMENSIONS

Wheelbase, in
Track, f/r, in59.5/59.2
Overall length, in202.7
width76.4
height53.0
Front seat hip room, in22 x 2
shoulder room58
head room37
pedal-seatback, max43
Rear seat hip room, in60
shoulder room58
leg room34
head room37
Door opening width, in
Trunk liftover height, in27

PRICES

List, FOB factory..........\$2866 Ontions included: Power steering group (includes AM radio), \$177; power brakes, \$43; TorqueFlite transmission, \$206; 7.35x14 tires, \$33, deluxe wheel covers, \$21.

CAPACITIES

No. of passengers5	i
Luggage space, cu. ft16	,
Fuel tank, gal	
Crankcase, qt	
Transmission/dif., pt16/4	
Radiator coolant, gt	,

CHASSIS/SUSPENSION

Frame type: Unitized. Front suspension type: Independent by unequal length A-arms, longitudinal torsion bars, telescopic shock absorbers. ride rate at wheel, lb./in.....102 antiroll bar dia., in................0.94 Rear suspension type: Hotchkiss live axle, leaf springs, telescopic shock ride rate at wheel, lb./in......110 Steering system: Integral assist recirculating ball gear, parallelogram linkage behind front wheels. % 1/1......54.8/45.2 BRAKES

Type: Drums front and rear. total swept area, sq. in......314.2 Power assist: Integral. line psi at 100 lb. pedal......800 WHEELS/TIRES

Vheel rim size	14 x 5J
optional size	15 x 6JJ
bolt no./circle dia in	5/4.5
ires: Goodyear Power Cu	shion.
size	7.35-14
normal inflation, psi f/r.	32/32
Capacity rating, total Ib. @ press	5490@ 32

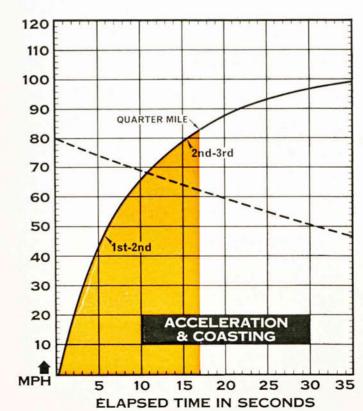
ENGINE

Type, no. of cyl	x 3.31
Displacement, cu. in	318
Compression ratio	9.2:1
Fuel required	egular
Rated bhp @ rpm230 @	
equivalent mph	
Rated torque (a rpm340 (c	2400
equivalent mph	
Carburetion: Carter 1x2.	
throttle dia., pri./sec	1.44
Valve train: Hydraulic lifters, rods and overhead rocker are cam timing	push-
deg., int./exh10-50	/58-10
duration, int./exh24	40/240
Exhaust system: Single with over, reverse flow muffler.	CL022-
pipe dia., exh./tail2.	0/1.88
Normal oil press. (a	
rpm45-65 @	2000
Electrical supply, V./amp	.12/37
Battery, plates/amp. hr	.54/48

DRIVE TRAIN

Transmission type: Three-speed au-Gear ratio 3rd (1.00:1) overall.2.76:1 2nd (1.45:1).....4.00:1 1st (2.45:1).....6.76:1 1st x t.c. stall (2.10:1).....14.20:1 Shift lever location: Steering column. fferential type: Hypoid. axle ratio......2.76:1

CAR LIFE ROAD TEST



CALCULATED DATA

LO./ DITH (Test Weight)
Cu. ft./ton mile
Mph/1000 rpm (high gear)28.9
Engine revs/mile (60 mph)2105
Piston travel, ft./mile1162
CAR LIFE wear index24.4
Frontal area, sq. ft22.5

SPEEDOMETER ERROR

Indicated							A	ctu	a
30 mph	 							.29	
40 mph	 							.39	
50 mph	 							.49	
60 mph									
70 mph									
80 mph									
90 mph	 			 				.89	

MAINTENANCE
Engine oil, miles/days4000/90 oil filter, miles/days8000/180
Chassis lubrication, miles36,000
Antismog servicing, type/milesre-
place PCV valve/12,000, tune-up check/12,000
Air cleaner, milesreplace/24,000
Spark plugs: Champion N-14Y.
gap, (in.)
Basic timing, deg./rpmTDC/850 max. cent. adv., deg./rpm.36/4800
max. vac. adv., deg./in. Hg 19/15
Ignition point gap, in0.014-0.019
cam dwell angle, deg30-35 arm tension, oz17-20
Tappet clearance, int./exh0/0
Fuel pressure at idle, psi5.0-7.0

Radiator cap relief press., psi.....16

PERFORMANCE

Top speed (3900), mph	
2nd to 3rd (4000)80)
1st to 2nd (4000)47	1

ACCELERATION

0 - 30	mpl	1,	SE	ec																. 3.0)
0-40	mpl	h.																		.4.4	1
0-50	mpl	h.																		. 6.2)
0-60	mel	١.											ï							.8.8	;
0-70	mpl	h.																		11.6	ò
0-80	mpl	h.																		15.5	j
0-90																					
0-100																					
Stant																					
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Dace	ina	21	n.	7	n	'n	n	ni	6		0	_	ř.	Ť	Ť	Ť	•	Ť	î	0 0	4

BRAKING

Max. deceleration rate from 80 mph
ft./sec./sec
No. of stops from 80 mph (60-sec. in-
tervals) before 20% loss in decel-
eration rate
Control loss? Extreme.
Overall brake performancefair

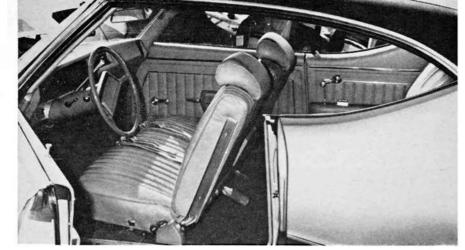
FUEL CONSUMPTION

Lest col	iaitons,	mpg.	 				. 14	
Normal	cond., I	mpg				.1	5-	١
Crusing	range,	miles			.2	80	1-31	0

continued

orders power brakes, he gets the front discs as well, as decreed from the top, The staff doesn't believe, after some heated discussion, that disc brakes should be mandatory, but it looks as if the factories are on their way to making discs a delete option.

Power requirements in a family car are moderate. Supply sufficient power to propel the car and its maximum load in a safe manner and still maintain the best possible fuel economy. There isn't much room for sporting horsepower in this category. Key word here is "safe" which means enough power to meet all possible traffic situations. The econo-fire six in one of these 3800-lb. cars would not be able to accelerate the family out of danger when the need arises. Power, not necessarily as in Supercars, but with decent margin, is needed for today's driving environment. A transmission with sensible torque multiplication is needed to transmit this to the wheels with the minimum amount of fuss. And economy certainly is a factor although the cost of fuel when consid-



SKYLARK interior shows usual two-door drawback-adequate front seat room, cramped quarters in back. Vinyl-covered bench seats were slippery.

ered with depreciation, insurance, etc., isn't very much.

Acceleration runs were no test at all. The Chevelle, by car lengths every time. In its 300-bhp tune, the lightweight 350-cid V-8 is several stages short of the factory's hottest, but this is a good engine for any purpose. It was nearly as quick as the Give-It-Another-Shot-Of-Elixir-Igor engine in the W-31, but quieter. The new, small Hydra-Matic was gentle around town and sharp on the strip.

The Plymouth was a surprise. Mo-

Par doesn't have a family version of its mid-range V-8. The 340 comes only in hot Darts and Barracudas. We had a choice between the small 318, and the big 383. Last year, Plymouth had the biggest engine in the test group, so we picked the 318. It didn't matter. Even pulling a 2.76:1 final drive, the Plymouth had enough power to handle any freeway. So did the Fairlane, but it wasn't quite as quick as its power rating should make it. The new Ford 351 comes only as an economy engine presently, putting it opposite from



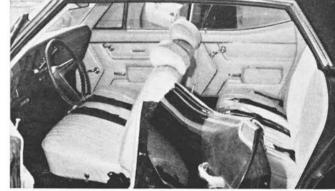
FAIRLANE dimensions suggest roominess, but back seat folds adults into knees-up, shoulders-forward position.



PLYMOUTH seats rated highest with testers—semi-buckets moved independently; center folded down for third person.



FOUR-DOOR GM A-body has more passenger room, but entry room for driver is decreased. This is Chevelle hardtop.



FAMILIES with big children, more than two adults would fit better into four-door intermediate, like this LeMans.

1969 TEMPEST PONTIAC FOUR-DOOR



DIMENSIONS

Wheelbase, in
Track, f/r, in
Overali length, in
width
height52.7
Front seat hip room, in54
shoulder room58
head room39
pedal-seatback, max41
Rear seat hip room, in58
shoulder room57
leg room35
head room37
Door opening width, in32
Trunk liftover height, in31

PRICES

List, FOB factoryS	2948
Equipped as tested\$	4249
Options included: 265 bhp V-8, \$	110;
Turbo Hydra-Matic, \$227; po	owe
steering, \$100; air condition	ning
\$376; power disc brakes, \$106,	AM
radio, \$61.	

CAPACITIES

No. of passengers	
Luggage space, cu. ft	
Fuel tank, gal	
Crankcase, qt	
Fransmission/dif., pt19/	
Radiator coolant, gt	

CHASSIS/SUSPENSION

Frame type: Perimeter.
Front suspension type: Independen
by s.l.a., coil springs, telescopic shock absorbers.
ride rate at wheel, lb./in74
ride rate at wheel, lb./in74 antiroll bar dia., in0.93
Rear suspension type: Link coil live
axle, two upper and two lower trail-
ing arms, telescopic shock ab-
sorbers.
ride rate at wheel, lb./in96
Ctearing system: Integral essist re
Steering system: Integral assist, re-
circulating ball gear, parallelogram
linkage ahead of front wheels.
overall ratio20.
turns, lock to lock4.
overall ratio
Curb weight, Ib
Test weight4190
Distribution (driver),
% f/r57.7/42.3

BRAKES

Type: Disc front, drum rear.
Front rotor,
dia. x width, in10.94 x 1.93
Rear drum, dia. x width9.5 x 2.5 total swept area, sq. in350.9
Power assist: Integral.
line psi at 100 lb. pedal800

WHEELS/TIRES

	Wheel rim size14 x 5JJ
6	optional size14 x 6JK
15	bolt no./circle dia. in5/4.75
22	Tires: Firestone Deluxe Champion.
5	size8.25-14
19/3	normal inflation, psi f/r24/28
12	Capacity @ psi5760 @ 24/28

ENGINE

Type, no. of cylV-8
Bore x stroke, in3.88 x 3.75
Displacement, cu. in350
Compression ratio9.2:1
Fuel requiredregular
Rated bhp @ rpm265 @ 4600
equivalent mph
equivalent mph70
Carburetion: Rochester 1x2.
throttle dia., pri1.69
Valve train: Hydraulic lifters, push-
rods and overhead rocker arms.
cam timing
deg., int./exh22-67/72-25
duration, int./exh269/277
Exhaust system: Single, reverse-flow muffler.
pipe dia., exh./tail2/2
Normal oil press. @
rnm 55-60 @ 2600
Flectrical sunnly V /amn 12/37
rpm

DRIVE TRAIN

Transmission type: Three-speed automatic with torque converter.
tomatic with torque converter.
Gear ratio 3rd (1.00:1) overall.3.23:1
2nd (1.48:1)4.78:1
1st (2.48:1)8.02:1
1st x t.c. stall (2.05:1)16.44:1
Shift lever location: Steering column. Differential type: Hypoid.
axle ratio

CAR LIFE ROAD TEST

120	
110	
100	
90	
80	QUARTER MILE
70	2nd-3rd
60	
50	
40	
30	1st-2nd
20	ACCELERATION
10	& COASTING
★	
MPH	5 10 15 20 25 30 35

CALCULATED DATA

Lb./bhp (test weight)	15.8
Cu. ft./ton mile	121.5
Mph/1000 rpm (high gear).	
Engine revs/mile (60 mph)	2513
Piston travel, ft./mile	
CAR LIFE wear index	
Frontal area, sq. ft	
SPEEDOMETER E	RROR
Indicated	Actual

50 mph......51.4 70 mph......72.4 80 mph......83.0 90 mph......93.7

MAINTENANCE Engine oil, miles/days....6000/120 oil filter, miles/days...12,000/240

Chassis lubrication, miles......6000

Antismog servicing, type/miles..re-place PCV valve/12,000, tune-up

Air cleaner, miles....replace/12,000

gap, (in.)......0.033-0.038 Basic timing, deg./rpm.....9 BTDC

deg./rpm......22-26/4800 max. vac. adv.,

Radiator cap relief press., psi...14-17

check/12,000

Spark plugs: AC R45S.

max. cent. adv.,

ACCELERATION

PERFORMANCE

0-30	mph		SI	ec	C.												.4.0
0-40	mph																. 5.9
0-50	mph																.8.5
0-60																	
0-70	mph																14.8
0-80																	
0-90	mph																25.7
Stan	ding	1	4		П	1	i	e	S	3	C					Ì	18.6
	eed a																
Pass																	

DDAKING

Max. deceleration rate from 80 mph ft./sec./sec28
No. of stops from 80 mph (60-sec. intervals) before 20% loss in deceleration rate
Control loss? Slight.
Overall brake performancegood
FUEL CONSUMPTION

Lezr co	nuitions, i	mpg	 	 	١.١
Normal	cond., mp	9		 .12-	14
	g range, m				

continued

Plymouth. (Chevrolet is everywhere.) It's a good thing we run these tests. Otherwise we would have given the Ford's times to the Plymouth, and vice versa.

The Tempest and Skylark would . . . not . . . go. By pressing firmly on the pedal, the driver could receive a sensation telling him that the car was picking up speed. If he was alert. In fairness, the Buick had never been subjected to this unladylike treatment, and it (she?) glazed a plug. But even on all eight, it wouldn't go.

Complain about the seats in a family car? Yes, if only because of a better idea by Plymouth. The Satellite had individual seats, with a cushion between and an armrest that folded up to join the seat backs. It was two separate seats, that could be made into a bench if need arose. The others had bench seats, with armrests that folded down, so the neighbors think the car has buckets. The occupants will know

All three GM cars had benches narrower than the cars, and the seats were



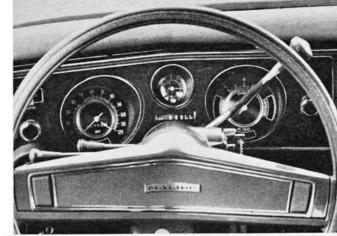
SKYLARK

shorter than the drivers' legs. They were perched on, not sat in. The Fairlane seats were comfortable, except that the lower edge of the dashboard in front of the passenger catches a tall man in the kneecaps when a short driver moves the seat forward.

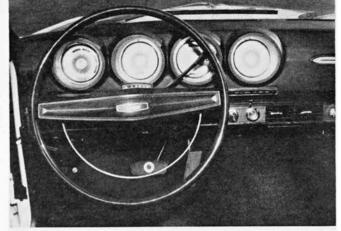
The two- versus four-door question wasn't settled. The occupants don't seem to benefit from the extra body length. Access to the back seat varies inversely with access to the front seat. Adding rear doors subtracts from the entrance room to the front seat. For a

large family making frequent stops, at school, music lesson, Cub Scouts, etc., the four doors might be the thing. If the back seat is seldom used, they aren't.

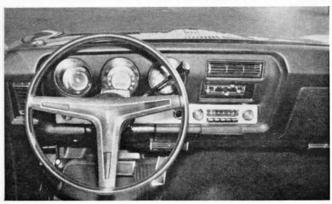
Chevrolet wins some points for its controls, which were logically located, and the fiber-optics light monitor system. There are small pods on each front fender, and on the shelf behind the rear seat. When the lights are on, tiny lights in the pods glow, white, yellow, red, whatever is appropriate. They don't distract the driver, but if a tail-



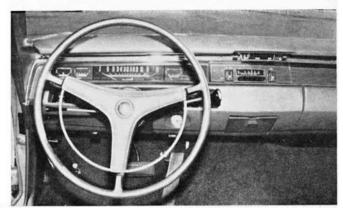
CHEVELLE



FAIRLANE



LE MANS



SATELLITE

1969 FAIRLANE 351 FORD



DIMENCIONS

DIMENSIONS
Wheelbase, In
rack, f/r, in58.8/58.5
Overall length, in
width74.6
height52.4
ront seat hip room, in
shoulder room58
head room38
pedal-seatback, max40
Rear seat hip room, in59
shoulder room57
leg room34
head room37
Door opening width, in45
runk liftover height, in26

Frame type: Unitized. Front suspension type: Independent by s.l.a., coil springs, telescopic shock absorbers ride rate at wheel, lb./in.... antiroll bar dia., in... Rear suspension type: Hotchkiss live axle, semi-elliptic leaf rear springs, telescopic shock absorbers. ride rate at wheel, lb./in.....93.5 Steering system: Integral assist recirculating ball gear; parallelogram linkage behind front wheels. % f/r.....58.2/41.8

BRAKES

Type: Disc front; drum rea	ar.
Front rotor, dia. x width, in	. 11.3 x 2.20
Rear drum, dia. x width	10 x 2
total swept area, sq. in.	23
Power assist: Integral.	
line psi at 100 lb. pedal.	700

WHEELS/TIRES

Wheel rim size......14 x 5JJ optional size......14 x 6JJ bolt no./circle dia. in......5/4.5

Capacity @ psi............6000 @ 32

Tires: Firestone Deluxe Char

CAPACITIES

PRICES

List, FOB factory...........\$2674

Equipped as tested.....\$3785 Options included: Vinyl roof, \$90;

Cruise-O-Matic, \$200; power steer-

ing, \$100; power disc brakes, \$65;

air conditioning, \$380; AM radio,

o. of passengers							
uggage space, cu. ft.						.1	16
uel tank, gal						.2	20
rankcase, qt							.4
ransmission/dif., pt.					2	2/	15
adiator coolant, qt						.1	15

CHASSIS/SUSPENSION

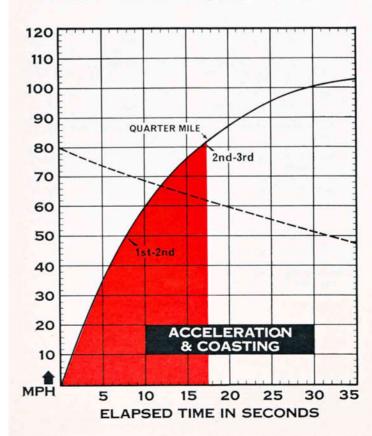
Type, no. of cyl.......V-8
Bore x stroke, in.......4.00 x 3.50 Fuel requiredregular Rated bhp @ rpm250 @ 4600 equivalent mph..... Rated torque @ rpm.....355 @ 2600 rods and overhead rocker arms. cam timing mufflers. niniers.
pipe dia., exh./tail.......2.50/2.25
Normal oil press. @ rpm......35-55
Electrical supply, V./amp......12/42
Batter,, plates/amp. hr......54/45

ENGINE

Transmission type: Three-spe	ed auto-
matic with torque converte	r.
Gear ratio 3rd (1.00:1) overal	1.3.00:1
2nd (1.47:1)	4.41:1
1st (2.40:1)	
lst x t.c. stall (2.10:1)	.15.12:1
Shift lever location: Steering	
Differential type: Hypoid.	
axle ratio	3.00:1

DRIVE TRAIN

CAR LIFE ROAD TEST



CALCULATED DATA Lb./bhp (test weight).........15.0 Cu. ft./ton mile......126.2

Mph/1000 rpm (high gear).....25.8

Piston tra CAR LIF Frontal a																						
SPEEL	0	0	n	1	I	E	7	Г	E	Ε	F	2		Ε	F	2	F	?	(o	R	
Indicated																		A	C	tı	ıa	ı
30 mph	٠.					ļ														21).1	١
40 mph			Î.																	40	0.0	0
50 mph																				50	0.0	0
60 mph	١.,																			61).(0
70 mph																				70).(0
80 mph										ĺ										80).(0
90 mph																						
M						_								•								

70 mph70.0
80 mph80.0
90 mph89.4
MAINTENANCE
Engine oil, miles/days6000/180
oil filter, miles/days6000/180
Chassis lubrication, miles36,000
Antismog servicing, type/miles
tuneup check/12,000; replace PCV valve/12,000
Air cleaner, milesreplace/36,000
Spark plugs: Autolite C6AF-A.
gap, (in.)0.032-0.030
Basic timing, deg./rpm.6 BTC at idle
max cent. adv.,
deg./rpm24.5/400
deg./in. Hg16/10
Ignition point gap, in0.014-0.02
cam dwell angle, deg26-3
arm tension, oz
Tappet clearance, int./exh0/
Fuel pressure at idle, psi4.5-5.
Radiator cap relief press., psi12-1
natiator cap reflet press., psr12-1

PERFORMANCE

Top speed (4000), mpn	
Test shift points (rpm) @ 2nd to 3rd (4600)	
1st to 2nd (4600)	50

ACCELERATION

0-30	mph	, SI	ec								×		×		.4.1	
0-40	mph														. 5.7	1
0-50	mph														.7.6	;
0-60	mph		٠.									٠			10.	ı
	mph															
0-80	mph														16.7	1
	mph															
	0 mp															
Stan	ding	1/4	-1	n	ı	e.		SE	C						17.4	۱
	eed a															
	ing,						•									

BRAKING

Max. deceleration rate from 80 mph tervals) before 20% loss in deceleration rate......8 Control loss? None.

Overall brake performance..excellent

FUEL CONSUMPTION

	, mpg	
Cruising range,	mpg14-18 miles280-360	
Granding range,		



MATCHED engine and body sizes didn't make for thrilling match races. The Plymouth, right, easily trailered the Tempest.



USEFULNESS of trunks varied with size and shape. Two-door Skylark has room, but the spare tire gets in the way.

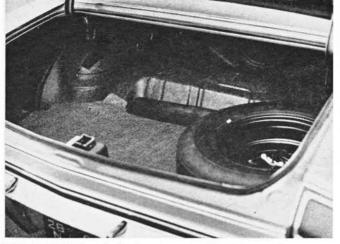
light or brake light goes out, he'll know. Very handy, especially for the huge majority of us who always mean to walk around the car every week and make sure all the lights are working, but who somehow never seem to get around to it.

So much for the test. Now, the conclusions. Every car in the group lacked something. More important, all the lacks are easily cured. Plymouth and Buick make excellent disc brakes. Cobra suspension would make the Fairlane twice the car. Pontiac, Chevrolet and Buick all offer optional handling packages, for as little as \$9. Both Pontiac and Buick have the same basic engine in more powerful form.

Check the price lists for the test cars. Chevrolet's optional engine, the

best in the group, isn't expensive. Nor did it use much more gas. It did better cruising than did the Pontiac, hauling the same body. For any of the test cars, the difference between a tolerable car and a good car is as close as the option list. All the options we'd recommend cost less than one of those faddish, and incongruous, vinyl roofs.

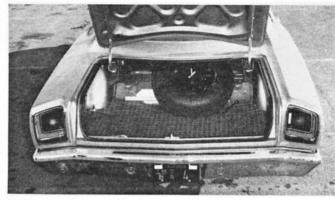
Our personal choice? Run get the torch, Igor, We'll take a Satellite, with Ford brakes, a Chevrolet engine and Hydra-Matic.



FOUR-DOOR Chevelle has less room yet. The A-bodies all provide more luggage space for two-doors than four-doors.



the Ford more useful space within reach. Low sill helps, too.



REAR mount for spare tire is also used by Plymouth, but Satellite lacked Ford's floor recess. Trunk lid was bigger.



COLLAPSED spare in Pontiac turned the smallest trunk into car with most usable trunk space. Wheel tucks under fender.

1969 MALIBU CHEVELLE 4-DOOR HT



DIMENSIONS

Wheelbase, in
Track, f/r, in59/59
Overall length, in200.9
width76
_ height
height
shoulder room58
head room39
pedal-seatback, max41
Rear seat hip room, in
shoulder room58
leg room35
head room37
Door opening width, in28
Trunk liftover height, in31

PRICES

List, FOB factory\$2745
Equipped as tested\$4539
Options included: Power windows,
\$105; air conditioning, \$376; power
disc brakes, \$64; 300-bhp V-8, \$69;
Turbo Hydra-Matic, \$200; power
steering, \$100; F70-14 tires, \$84;
AM/FM stereo radio, \$239.

CAPACITIES

No. of passengers								.6	
Luggage space, cu. f									
Fuel tank, gal								20	
Crankcase, qt								.4	
Transmission/dif., p	ıt.						8	/4	
Radiator coolant, qt.									

CHASSIS/SUSPENSION

Frame type: Perimeter.
Front suspension type: Independent
by s.l.a., coil springs and concentric shock absorbers.
ride rate at wheel, lb./in117
antiroll bar dia., in0.812
Rear suspension type: Live axle, two
lower and one upper trailing arms and telescopic shock absorbers.
ride rate at wheel, lb./in126
Steering system: Semi-reversible, re- circulating ball gear, parallelogram linkage behind front wheels.
overall ratio20.4:1
turns, lock to lock4.0
turning circle, ft. curb-curb39.4
Curb weight, Ib3735
Test weight4030
Distribution (driver),
% f/r55.6/44.4

BRAKES

Type: Disc front; drum rear.	
Front rotor, dia. x width, in. 11.0 x 2.2	1
Rear drum, dia. x width 9.5 x	2
total swept area, sq. in332.	4
Power assist: Integral.	
line psi at 100 lb. pedaln.a	1.

WHEELS/TIRES

Wheel rim size14	x 5J
optional size14 x	6JK
bolt no./circle dia. in5/	4.75
Tires: Goodyear Polyglas.	
sizeF7	
normal inflation, psi f/r2	
Capacity @ psi5480 @ 20	5/28

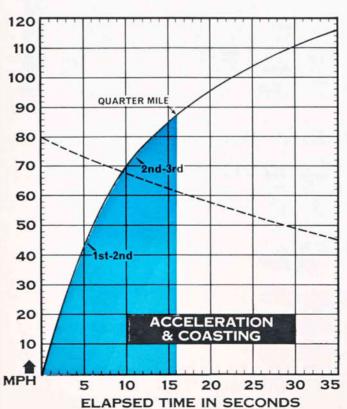
ENGINE

LITORITE
Гуре, no. of cyl
Bore x stroke, in 4.00 x 3.48
Displacement cu in 350
Compression ratio10.25:1
Fuel requiredpremium Rated bhp @ rpm300 @ 4800
Rated bhp @ rpm300 @ 4800
equivalent mph106
Rated torque @ rpm380 @ 3200
equivalent mph71
Carburetion: Rochester 1x4.
throttle dia., pri./sec1.38/2.25
Valve train: Hydraulic lifters, push-
rods and overhead rocker arms.
cam timing
deg., int./exh28-72/78-30
duration, int./exh280/288
Exhaust system: Single with cross-
over, one reverse-flow muffler.
pipe dia., exh./tail2.0/1.88
Normal oil press.@ rpm 50-65@ 2000
Electrical supply, V./amp12/37
Battery, plates/amp. hr66/61
20 N N N N N N N N N N N N N N N N N N N

DRIVE TRAIN

Transmission type: Three-speed auto- matic with torque converter.
Gear ratio 3rd (1.00:1) overall . 3.36:1
2nd (1.52:1)5.11:1
1st (2.52:1)8.47:1
1st x t.c. stall (2.10:1)17.78:1
Shift lever location: Steering column
Differential type: Hypoid, limited slip.
axle ratio

CAR LIFE ROAD TEST



CALCULATED DATA

E P	b./bhp (to tu. ft./ton Mph/1000 Ingine revs Viston trave CAR LIFE Frontal are	rpm (hig s/mile (6 el, ft./mi wear ind	h gear) 0 mph). le ex	22.12712157342.7
,	SPEED	OMET	ER EI	ROR
ı	30 mph. 40 mph. 50 mph. 60 mph. 70 mph. 80 mph. 90 mph.		 	40.3 49.7 59.4 69.6 79.4
	MA	INTE	NANC	E
A S	engine oil, oil filter, chassis lub intismog si tuneup PCV valv iir cleaner, cpark plugg gap, (in.) gasic timin	miles/da rication, ervicing, check/ e/12,000 miles. s: ACR44	ys6 miles type/mil /12,000;) replac S. 0.0 pm4	3000/120 36,000 les replace e/24,000 133-0.038 BTC/600

max. vac. adv., deg./in. Hg. 20/17

arm tension, oz......19-23

Tappet clearance, int./exh.....0/0

Fuel pressure at idle, psi....7.5-9.0 Radiator cap relief press., psi......15

Ignition point gap, in. cam dwell angle, deg.....

PERFORMANCE

Top speed (5200), mph	j
Test shift points (rpm) @ mph	
2nd to 3rd (5000)73	1
1st to 2nd (5000) 44	1

ACCELERATION

0-30 mph, sec
0-40 mph4.5
0-50 mph6.0
0-60 mph
0-70 mph
0-80 mph
0-90 mph17.3
0-100 mph22.6
Standing 1/4-mile, sec16.1
speed at end, mph87.6
Passing, 30-70 mph, sec6.9

	BRAKING
	eceleration rate from 80 mph ec./sec26
No. of inter	stops from 80 mph (60-sec. vals) before 20% loss in deation rate
	l loss? Severe.
Overa!	brake performancepoor,
	see text

FUEL CONSUMPTION

Test conditions,	mpg	10.
Normal cond., m Cruising range, r		
Cruising range, r	miles20	30-30