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DRIVER AND ENGINE try to sustain a steady 40 mph through our test corner, while understeer grinds off speed and increases curve radius. LTD was worst handling of the group, though not as bad as other cars we have tested in this general size range. Factory installed radial tires gave Ford grace in street driving not forthcoming on handling circuit.

FORD NAMED IT 'LTD'

... and 'limited' it is. Ever drive a 429-cid, full-size, overgadgeted Powercar?

HALLENGING is the best way to sum up the test of Ford's LTD with 429-cid engine. The car met all the specifications of the Powercar group, but it performed like the family cars it's supposed to overpower, and there were enough maddening details to put the testers off completely.

Our relationship with the car began to disintegrate from the moment any tester climbed into it in the parking lot—days before we finally took it to Orange County Raceway to gather performance data.

For instance, one tester would hop in and have to search for the ignition switch (it's buried up under the dash). Another search for the headlights (they're buried somewhere else under the dash and the steering wheel blocks the view). The seat belts defied efficient snapping. The whole dash panel seemed to be designed to frustrate the new driver (we found, after driving the car rather extensively, that it's not true that you can get used to any-

thing). Once underway, frustrations seemed to pile on frustrations. First block. Adjust the windows. Power window control panel around here someplace. Aha! There it is, peering out from below the left armrest. Can't reach it. Adjust the shoulder belt. Wrist won't go into proper position. Slide over. Try again.

Meanwhile the passenger has a long cigarette ash that's just begging to burn a hole in his trouser leg. No ash tray. (It's camouflaged against the wraparound driver cockpit.) Unfortunately, all he can find is an unlabeled button (out of the driver's view completely) that electrically locks the doors.

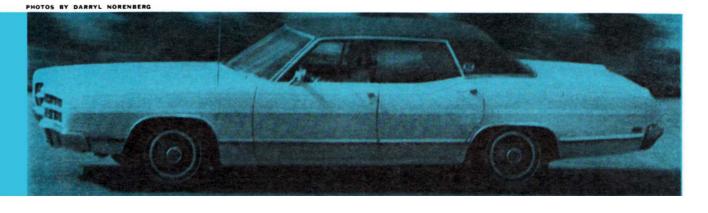
Just to be precise about some of the details inside the car, we measured from the driver's shoulder to the push-button on the glove box (where else would he store a map or a bar of candy?). It was 40 in. The longest arm among the testers was 28 in. He could never reach it while driving, or without unfastening his seat belt. From

the passenger's point of view, the interior is just as unreasonable. From his shoulder to the nearest radio control knob is the same 40 in. He has to slide over at least 16 in. to reach it—and reach through the steering wheel (across won't work) to change a station or adjust volume.

The Ford LTD made the individual testers feel sabotaged with the sheer mechanics of operating the vehicle. Pity, too. Because it has some strong points, although among the four Powercars tested it would rank in the bottom half.

First, among its virtues, we felt was the quietness of the interior. Engine noise simply doesn't exist, and wind noise is deceptively low. Only a whisper of the road rumble creeps through all of the computer-calculated acoustics. Interior-born sounds are kept low, too. The heater and air conditioner are almost silent, and the AM/FM stereo has no competition in turning the interior into a concert hall.

Ford's reputation as a builder of



good power disc brake systems continued to grow with the testers. The brakes on the LTD were extremely good. Deceleration rate, ease of modulation, proportioning, and resistance to fade all got high scores. Together, they produced a maximum deceleration rate of 28 ft./sec./sec., and a low after eight stops from 80 mph of 26 ft./sec./sec. That's right at the head of the domestic sedan class—and up there with some fine sports cars.

A major factor in good brake performance is tire adhesion. Good adhesion not only gives the obvious advantage of higher deceleration rates, but the average driver can modulate the action of tires that hold all the better. The LTD was equipped with B.F. Goodrich radials and the increase in adhesion was great enough to be noticed right off by testers who through experience have learned to disregard a lot of the feel that is sometimes misleading.

Traction was so good, in fact, that we were able to induce slight rear axle

judder, something we have never done with this Ford chassis before. The tires, too, account for the decent crooked-road adhesion on a car with such soft suspension. If nothing else, this builds a good case for radial tires even on large, softly sprung cars.

The Ford was second slowest of the Powercar group (the 383 Plymouth predictably was much weaker). The 429-cid, thin-wall, low emission Thunderbird engine is the top power option for the LTD. Its 360 bhp, after being delivered through the Cruise-O-Matic and 2.80:1 rear axle, was not impressive, weighed against the other cars in the test.

The transmission tried to suit both the enthusiast image of the big engine and the soft ride. Some shifts would be quick—so quick that it would lurch the car, other times it would exhibit a great amount of slip. Starting from a stop proved to be tricky. We suspect some of its early miles had been rough ones, even though the car only had 7000 on it

when we turned it back in.

Besides the significant limitations of the drive train, the LTD had others. Its handling put it at the bottom of our Powercar group, despite its radial tires. Still, it handled better than two previous Mercurys (the Marauder X-100 in April and the big Marquis in May). In fact, it reminded us rather much of the somewhat criticized 350cid Fairlane ("Five Intermediates for the Family," March, page 44). It had the usual Ford Motor Co. handling characteristics-heavy front, large camber change in the curves, and lots of lean. The result is understeer, initial and final.

All Car Life test cars are put through a standard, constant-radius curve at 40 mph (see photo, page 60). It took nerve, though, to take this car into the curve much faster; however, nerve up, we could fling it into the corner early with the right touch to the throttle, and it would assume a rather pleasant neutral steer attitude. But the balance with the throttle was

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PROVERBIALLY GOOD Ford brakes came through once again. Consistent deceleration rates at 28 ft./sec./sec. were recorded with no fade evident.

FORD I

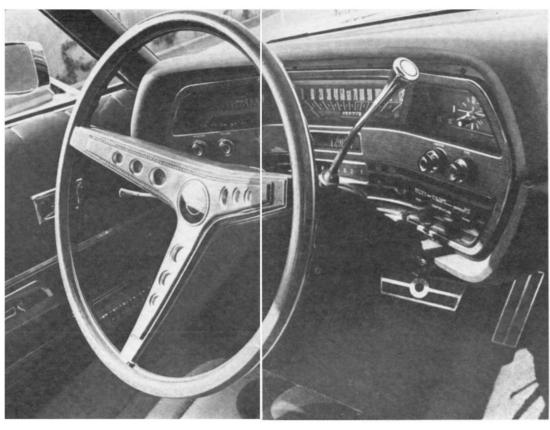
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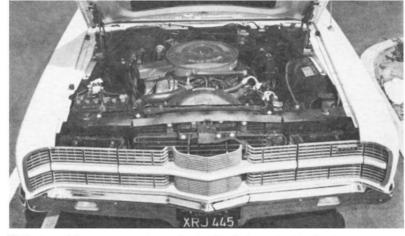
critical, otherwise it would degenerate into understeer again. With the big engine, big output option, one could only assume that the LTD is being sold (and bought) for its performance potential. On that basis, our test car was severely old-maidish. It had none of the available handling options.

The Ford LTD has a 121-in, wheelbase, certainly qualifying it as a big car. And it is on the outside. The interior, though, of our four-door hardtop was not cavernous. With 58-in. hip room front and rear it was certainly adequate, but small enough that one wondered where the apparent room from outside had gone.

There's something else strange about this new body by Ford. Side windows are tightly curved inward. The doors do not have a very wide opening; and when there's a car parked alongside, it is nigh impossible to get into the back seat. The first impression is that the window is placed there to catch the bottom of an unsuspecting chin. More than once, we had to roll the back windows down just to get in or out of the car.

So much for the LTD. Ford said it. In capitals. LIMITED.





THUNDER OF 429 Thunderbird engine is effectively subdued by 2.8:1 rear axle ratio and accessories. Quietness is impressive.

ADEQUATE trunk is deep, with low liftover, has spackle paint instead of mats.

RIDICULOUS instrument panel has radio out of reach of passenger, window controls in awkward spot and two mostused switches-ignition and lights-hidden underneath.



1969 FORD



DIMENSIONS

Wileelnase, Ill		. 141
Track, f/r, in	. 6	3/64
Overall length, in		.214
width		
height		
Front seat hip room, in		
shoulder room		62
head room		
pedal-sea tback, max		43
Rear seat hip room, in		58
shoulder room		
leg room		38
head room		
Door opening width, in		36
Trunk liftover height, in		

PRICES

List, FOB factory	\$3261
Equipped as tested	.\$536
Options included: 429-cid V-8,	\$237
Select-shift Cruise-O-Matic,	\$222
power steering, \$100; power	er dist
brakes, \$65; air conditioning	\$389
AM/stereo tape, \$195.	

CAPACITIES

No. of passengers.									.6
Luggage space, cu.	f	t.	 						18
Fuel tank, gal			 						25
Crankcase, gt			 						. 5
Transmission/dif.,	D	t.					2	6	/5
Radiator coolant, q	t.								21

CHASSIS/SUSPENSION

CHASSIS/SUSPENSION	
Frame type: Perimeter.	Type, no. of
Front suspension type: Short and long arms, coil springs.	Bore x strok Displaceme
ride rate at wheel, lb./in96	Compression
antiroll bar dia., in0.84	Fuel require
Rear suspension type: Live axle, coil	Rated bhp (
springs, three torque control arms	equivalen
and track bar.	Rated torqu
ride rate at wheel, lb./in123	equivalen
Steering system: Recirculating ball with integral assist.	Carburetion throttle di
overall ratio22:1	Valve train:
turns, lock to lock4	rods and
turning circle, ft. curb-curb42	cam timin
Curb weight, Ib4565	deg., int./
Test weight4880	duration.
Distribution (driver),	Exhaust sys
% 1/r58.4/41.6	flow muffl pipe dia.,

BRAKES

	Power n rear.	assisted	disc	front/
		a. in		11.7
Rear d	rum, di	a. x width area, sq. i	11.	0 x 2.25
Power	assist			
line	psi at 1	00 lb. peda	al	1174

WHEELS/TIRES

Wheel rim size
optional size
bolt no./circle dia. in 5/4.5
Tires: B. F. Goodrich radials.
sizeZ15R-15

ENGINE

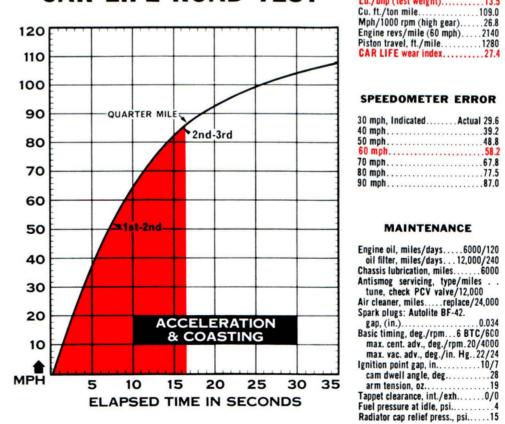
Type, no. of cylV	-8
Bore x stroke, in 4.36 x 3.	59
Displacement, cu. in4	29
Compression ratio10.5	:1
Fuel requiredpremiu Rated bhp@rpm360@46	m
equivalent mph1. Rated torque@rpm480@28	23
Rated torque@rpm480@28	00
equivalent mph	
Carburetion: Autolite 1x4, C8SF-H.	
throttle dia., pri./sec1.57/1.	69
Valve train: Hydraulic lifters, pus	h-
rods and overhead rocker arms.	
cam timing	
deg., int./exh16-60/70-	20
duration, int./exh256/2	
Exhaust system: Dual with revers	
flow mufflers.	
pipe dia., exh./tail2.5/2	0.5
Normal oil press. @ rpm45 @ 200	
Electrical supply, V./amp	
Battery, plates/amp. hr78/	

DRIVE TRAIN

Transmission type: Three-speed au-

tomatic	with.	torque	converter
"Cruise	O-Mat	ic."	
Gear ratio	3rd (1.	00:1) ove	rall2.80
	2nd (1.	46:1)	4.09
	1st (2.4	16:1)	6.89
1st x t. c. s			
Shift lever			n.
Differentia			
axle rat	0		2.80:1

CAR LIFE ROAD TEST



CALCULATED DATA

SPEEDOMETER ERROR

MAINTENANCE

arm tension, oz., Tappet clearance, int./exh...

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

70 mph.

LD./DNp (test weight)13.5	Top speed (4600), mph
Cu. ft./ton mile	Test shift points (rpm) (a. mph
Mph/1000 rpm (high gear)26.8	2nd to 3rd (4800)
Engine revs/mile (60 mph)2140	1st to 2nd (4800)
Piston travel, ft./mile1280	, ,
CAR LIFE wear index27.4	

ACCELERATION

PERFORMANCE

0 00 mpm, 300
0-40 mph5.5
0-50 mph
0-60 mph9.1
0-70 mph11.4
0-80 mph14.4
0-90 mph
0-100 mph
Standing 1/4 - mile, sec 16.7
speed at end, mph
Passing, 30-70 mph, sec7.4

BRAKING

Max. deceleration				
ft./sec./sec				
No. of stops from	80 m	ph (6	0-se	c. i
tervals) before	20%	loss	in d	ece
eration rate				
Control loss? Litt			,	
Overall brake pe		nce.	exc	elle

FUEL CONSUMPTION

Test conditions,									
Normal cond.,	mpg	٠.						10-	١
Cruising range,	miles					2	50	1-30)

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