# CAR DRIVER

## **Super Mustang!**

Shelby 428 cu. in. GT 500

Road Tests: BMW 1600 The World's Best \$2500 Automobile

**Pontiac Le Mans Sprint** 

Salon: MG's Immortal TC

Racing: Riverside · Laguna Seca

Las Vegas · Mexican GP





### SHELBY GT500

Carroll Shelby's Mustangs have come a long way since bib overalls. But then, so have we.



Seven liters! Four hundred and twenty-eight cubic inches in a Mustang! We were expecting a cataclysm on wheels, the automotive equivalent of the end of the earth. We were pleasantly surprised to discover that the GT 500 isn't anything like that.

The old corollary to that old adage, "There's no substitute for cubic inches," is "except rectangular money"-and who would know better than Carroll Shelby. When the Cobra 289 peaked out on the race track, there were several ways of making it go faster-most expensive, one cheap. One of the more expensive ways was the Daytona coupe body. The late Ken Miles found a better way. At Sebring in 1964, he shoehorned a Ford 427 NASCARized engine into a Cobra roadster. The experiment came to rest, sorely bent, against a palm tree, but Miles persisted. By the end of the season, at Nassau, he had another one bolted together. It blew up, but the die was cast, Early in 1965, Shelby announced the Cobra II with a 427 cu. in. V-8 replacing the 289. That June, at Le Mans, two of Ford's rear-engined GT prototypes appeared with the big 427 instead of the 289. The Europeans hooted and jeered at the bulky, heavy, unsophisticated V-8 with its pushrods and single fourbarrel carburetor. A year later, Ford 427s swept the first three places at the French classic, with Shelby's two entries dead-heating the final lap. What the 427s had beaten was a team of 270 cu. in. Ferrari V-12s with multiple carburetion and four overhead camshafts. The Italian engine developed almost as much horsepower as the Ford—425 hp vs. 485-but it was much more tautly stressed and, therefore, fragile. Which is the whole point of 7-liter Fords, Cobras, and now, Shelby Mustangs.

For '67, Ford offered the Mustang with their tried-and-true 390 V-8, which has a bore and stroke of 4.05 x 3.78 inches. Ford also builds a 428 V-8 on the same block with a bore and stroke of 4.13 x 3.98 inches. Why not, reasoned Shelby, use this engine in the '67 Shelby Mustang? Why not indeed. The car is called the GT 500 and its engine is called the Cobra Le Mans.

Somebody is telling a little white half-truth.

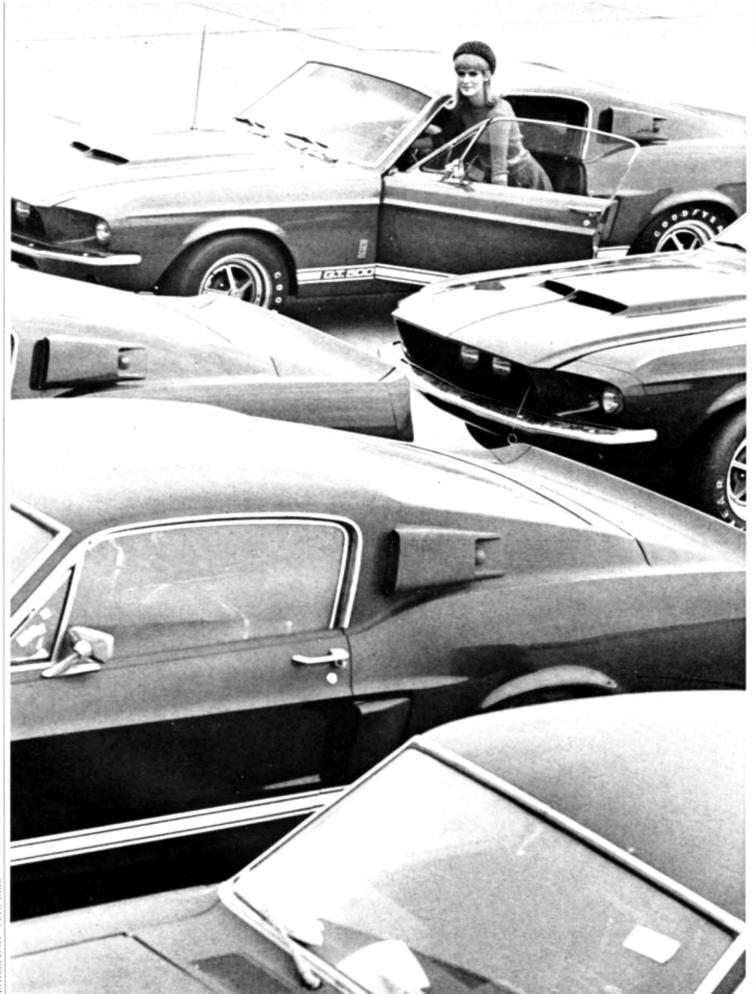
Please note that the Cobra Le Mans engine displaces 428 cubic inches. That sounds like a hair better than the 427. In fact, they are two entirely different engines. Both have the same external dimensions, but the 427 is more oversquare, with a bore and stroke of 4.23 x 3.78. The 427 is a racing engine, full of the kind of intestinal fortitude that makes it capable of enduring 500 miles at Daytona and 24 hours at Le Mans. The 428 is a passenger-car engine, and nearly \$1000 cheaper than the 427. Few people would be happy with the 427 unless they were racing it. It's noisy, balky, and an oil-burner at normal highway

The GT 500 is not a racing car, although but for a few subtle differences its engine is the same as the one that propelled Shelby's Fords to victory at Le Mans. Seven liters in a Mustang! The early GT 500 engineering prototype was the fastest car ever to lap Ford's twisty handling loop, except for the GT 40s, of course. And the same car cut a quarter-mile in 13.6 seconds at 106 mph. Super car!

So we braced ourselves when we stuck our editorial foot into the first production GT 500. And when it only turned 15.0 at 95, we were a bit disappointed. That's only 2/10ths of a second quicker than the Mustang 390 automatic (C/D, November '65) and last year's GT 350H automatic (C/D, May '66), and not quite as fast as the original GT 350 4-speed (C/D, May '65). But then we thought back on the earlier GT 350s and realized that what the old Shelby Mustang does with difficulty, the GT 500 does easily.

The GT 500 is an adult sports car. Shelby's Mustangs have come a long way in three years-from adolescence to maturity. The '65 GT 350 was a hot-rodder's idea of a sports car-a rough-riding bronco that was as exciting to drive as a Maserati 300S, and about as marketable a proposition. The traction bars clanked, the side exhausts were deafening, the clutch was better than an advanced Charles Atlas program, and when the ratcheting-type limited-slip differential unlocked, it sounded like the rear axle had cracked in half. It rode like a Conestoga wagon and steered like a 1936 Reo chain-drive, solid-tire coal

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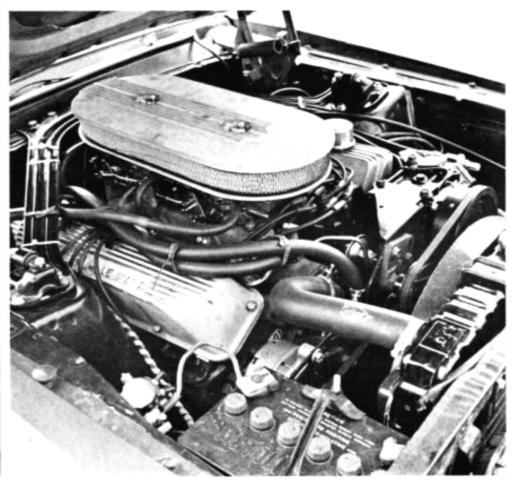


STREET, WHILE BEING

Hairy air scoops are a Shelby trademark, as on the GT 40 (left). The GT 500's upper scoop exhausts interior air, while the lower one cools the brakes. The 428 engine isn't the Le Mans winner, but it does the job in the GT 500.







truck . . . and we loved it. It was a man's car in a world of increasingly effeminate ladies' carriages. You drove it brutally and it reacted brutally. Every minute at speed was like the chariot-racing scene in "Ben Hur."

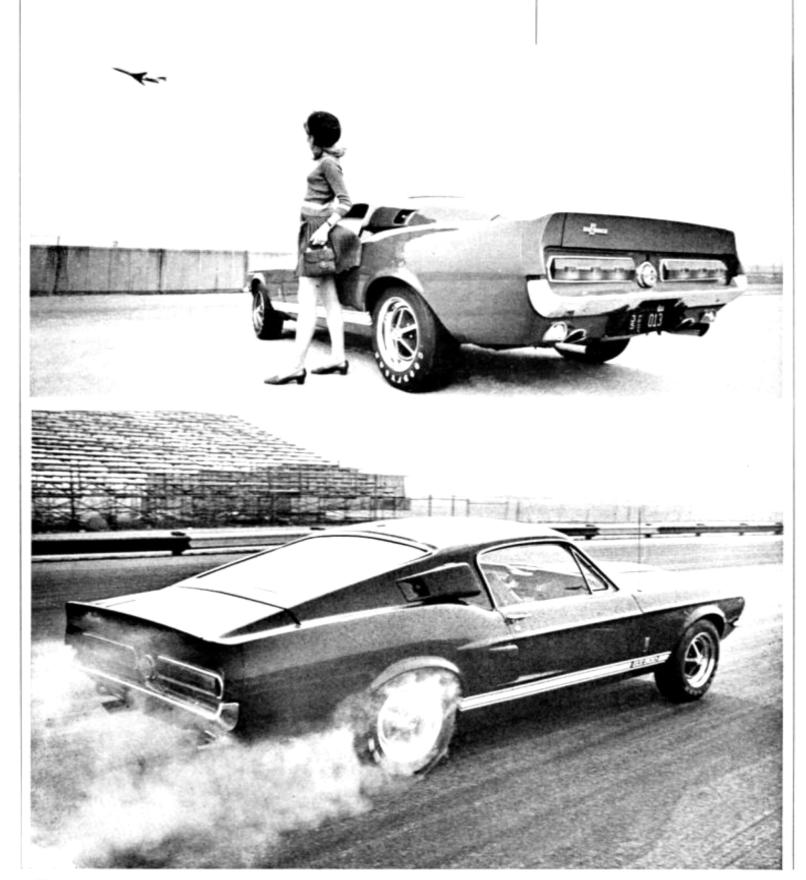
Unfortunately for Shelby, the market for a car as hairy as this was limited. One state's motor vehicle bureau complained that the brakes, although virtually fade-proof, required too much pedal pressure. Apparently, the inspectors' leg muscles had atrophied from years of dainty stabs at over-boosted power brakes.

For 1966, Shelby toned the GT 350 down from a wild mustang to a merely high-strung thoroughbred. It was barely tame enough for the Hertz Corporation, which bought 1000 of them and put them into service as the hottest rent-a-cars the business has ever seen.

The GT 350 still wasn't acceptable to a large enough body of potential buyers, so, in 1967, an abrupt change in policy has transformed the Shelby Mustang. The \$1000or-so above the price of a comparable Mustang that used to go into expensive, unseen mechanical improvements is now lavished instead on exterior styling changes. The back lot at Shelby American's remanufacturing plant is littered with stock Mustang front and rear sheet metal, and engine and trunk lids. In their stead go fiberglass panels stylized by Ford's Chuck McHose, working in close co-operation with Shelby American.

The new nose piece arches tautly forward, forming a deep cowling for the headlights (changed from duals to quads, with the high-beams centered in the grille, driving-lamp style). The hood features an airscoop even larger than last year's, now divided by an air-splitter, and it's still functional. At the rear, the new trunk lid and tail piece combine to form a racy-looking aerodynamic spoiler lip. No one would say for sure if high-speed tests had proved the efficiency of this styling gimmick or not—but it looks right. Finally, the

(Text continued on page 65; Specifications overleaf) The Shelby Mustang conversion includes a new nose and a big, fat, Kamm-type rear deck treatment. The GT 500 isn't quite as fast as we expected, but it does with ease what the old 350 took brute force to accomplish.



### SHELBY GT 500

Manufacturer: Shelby American, Inc. 6501 West Imperial Hwy. Los Angeles, California

Number of dealers in U.S.: 90

Front-engine, rear-wheel-drive, 2+2-passenger GT/sports sedan, all-steel integral body/chassis, fiberglass front and rear-Vehicle type: Front-engine. panels

Price as tested: \$5043.60 (Manufacturer's suggested retail price, plus Federal excise tax, dealer preparation and delivery charges; does not include state and local taxes, license or freight charges)

Options on test car: Air conditioning (\$356.09), Mag Star wheels (\$185.00 for five), AM radio (\$57.51), power steering (\$84.47), power front disc brakes (\$64.77), retractable shoul-der harnesses (\$50.76)

### ENGINE

Type: Water-cooled V-8, cast iron block and Type: Water-cooled v-o, teather heads, 5 main bearings
Bore x stroke 4.13 x 3.98 in, 104.8 x 101.2 mm
Displacement 428 cu in, 7016 cc
Compression ratio 2 x 4-bbl Holley Compression ratio. 10.5 to one Carburetion. 2 x 4-bbl Holley Valve gear. Pushrod-operated overhead valves, hydraulic lifters
Power (SAE). 355 bhp @ 5400 rpm Torque (SAE). 420 lbs/ft @ 3200 rpm Specific power output. 0.83 bhp/cu in, 50.6 bhp/liter
Max. recommended engine speed 6000 rpm

### DRIVE TRAIN

Transmission	3-speed	auto	imi	atic,
plus torque converter Max, torque converter ratio Final drive ratio				

Gear Ratio Mph/1000 rpm I 2.46 9.6 49 II 1.46 16.2 83 III 1.00 23.6 128 0 rpm Max. test speed 49 mph (5100 rpm) 83 mph (5100 rpm) 128 mph (5400 rpm)

### DIMENSIONS AND CAPACITIES

Wheelbase	108,0 in
Track	F: 58.0 in. R: 58.0 in
Length	
Width	70.9 in
Height	51.6 in
Ground clearance	
Curb weight	
Test weight	3825 lbs
Weight distribution, F.R.	60.0/40.0%
Lbs/bhp (test weight)	10.8
Battery capacity	12 volts, 55 amp/hr
Alternator capacity	540 watts
Fuel capacity	
Oil capacity	
Water capacity	

### SUSPENSION

F: Ind., upper wishbones, lower control arm with drag strut, coil spring, 0.94-in anti-sway bar, Gabriel adjustable shocks
R: Rigid axie, semi-elliptic leaf springs, rubber chatter dampeners. Gabriel adjustable

shocks

### STEERING

Type	Power-assisted	recirculating	ba	H
Turns lock	-to-lock		4.	0
Turning ci	rcle		37 1	İ

### BRAKES

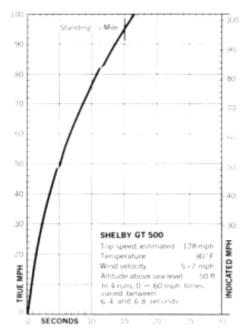
F: Kelsey-Hayes	11.3 in vented d	liscs
R: 10.0 x 2.5-in	cast iron drums	
Swept area		376.0 sq in

### WHEELS AND TIRES

Wheel size and type: 7.0 x 15-in, Keisey-Hayes "Mag Star." aluminum spider with steel rims, 5-bolt
Tire make, size and type:... Goodyear E70-15
Speedway, 4-ply nylon tubeless
Test inflation pressures: F: 40 psi, R: 40 psi
Tire load rating:... 1190 lbs per tire & 24 psi

### PERFORMANCE

Zero to	Seconds
30 mph	2.3
4C mph	3.4
50 mph	
60 mph	
70 mph	7.5
80 mph	10.7
90 mph	13.6
100 mph	16.6
Standing %-mile	ap mbu
80-0 mph 287 ft	(0.74 G)
Fuel mileage 9-12 mpg on prem	
Cruising range	3-204 mi



### CHECK LIST

### ENGINE

Starting									Very Good
Response									
Vibration									Very Good
Noise								. ,	Good

### DRIVE TRAIN

Shift linkage	Very	Good
Shift smoothness		Fair
Drive train noise		Good

### STEERING

Effort	Exc	ellent
Response	Very	Good
Road feel	Very	Good
Kickback	Very	Good

### SUSPENSION

Ride comfort		Good
Roll Resistance	Very	Good
Pitch control	Very	Good
Harshness control		. Fair

### HANDLING

Direct:onal control	Very	Good
Predictability	Very	Good
Evas:ve maneuverability	Very	Good
Resistance to sidewinds	Very	Good

### BRAKES

Pedal pressure		Fair
Response	Very	Good
Fade resistance		Good
Directional stability	Very	Good

### CONTROLS

Wheel position	Excellent
Pedal position	Very Good
Gearshift position	Good
Relationship	Excellent
Small controls	Good

### INTERIOR

Ease of entry/exitFr	air
Noise level (cruising) Go	od
Front seating comfort Very Go	od
Front leg room Very Go	od
Front head room Very Go	od
Front hip/shoulder room	od
Rear seating comfort F	air
Rear leg roomPo	or
Rear head roomPo	or
Rear hip/shoulder room F	air
Instrument comprehensiveness Very Go	od
Instrument legibility Go	od

### VISION

Forward	Very Good
Front quarter.	Very Good
Side	Excellent
Rear quarter	Poor
Rear	Good

### WEATHER PROTECTION

Heater/defroster	Exc	ellent
Ventilation	Very	Good
Air conditioner		Good
Weather sealing	Very	Good

### CONSTRUCTION QUALITY

Sheet metal.		Fair
Paint.		Good
Chrome	Very	Good
Upholstery	Very	Good
Padding.	Very	Good
Hardware		Fair

GENERAL	
Headlight illumination	Very Good
Parking and signal lights	Very Good
Wiper effectiveness	Very Good
Service accessibility	Poor
Trunk space	Poor
Interior storage space	Fair
Bumper protection	Good