TESTING THE Z-28 CAMARO & SHELBY'S '67 MUSTANGS



EXCLUSIVE: BUILDING THE GURNEY-WESLAKE V-I2 WINGS & SPOILERS...ANSWER OR COMPROMISE?

SHELBY GT 500 & GT 350

SHELBY MUSTANG GT350 & GT500^{By Jerry Titus}

THE PRE-1967 GT350, A SHELBY-AMERICAN RE-WORKED MUSTANG, WAS A PERFORMING CAR but, in many respects, it was more of a hot rod than a Grand Touring car, With a stripped-out interior, the optional suspension, a rock-crusher limited slip, the mechanical-lifter 289 high-performance V-8, and quick steering, it made a Mexican Road Race Ferrari look like an LTD when compared for noise, comfort, and driving ease. But there were plenty of buyers excited by this kind of "furry-ness," and the prime requisites of roadability and performance were certainly satisfied, so the cars sold. However, the people within Shelby-American were well aware of the shortcomings and the market limitations that they imposed. The '67 production Ford Mustang is a more sophisticated machine, and the GT350 takes maximum advantage of its attributes to improve not only the ride, comfort, driving ease, and noise level, but the handling as well! It is a substantially better and more practical machine, without sacrifice in the performance area.

The powerful GT500 (instrumentation and engine compartment shown at right) uses two four-barrel carburetors atop the 428-inch engine. Our test unit was equipped with air conditioning and automatic transmission. The sparkling GT350 shown in photos below makes good use of the wider track for improved ride and superior handling in tighter corners.

Photos: Bob D'Olivo

An added model for '67 is the GT500. It features a 428-inch engine. We frankly laughed out loud some 18 months ago when we heard such a prototype was planned. A huge hunk of cast iron sitting that high and that far forward? Lots of luck! Paying us no mind, they did it anyhow, and wound up with a very practical automobile. Combined with a three-speed automatic, the 427 is far more docile and more quiet than the 289, and outperforms it in every respect except gas mileage. You can feel some of the compensations made for the extra weight of the engine, but the end result is surprisingly good.

There were three major goals that Shelby's design/ engineering team set out to accomplish with the '67 model: improve its quality, make it more distinctive, and *reduce* its cost. The latter requirement certainly isn't compatible with the first two. The goals were achieved only through months of intensive effort and several weeks' delay in getting the production line rolling. The result has been more than worth the effort and the wait, however.

In striving to make the GT look distinctive, redesign of the front and rear ends has been accomplished with the use of fiberglass components. Last year there were some problems with warpage of the fiberglass hoods, and it was expected that this year's model would have to absorb the extra weight of a steel hood in order to be assured of a decent fit. The problems were cured, however, and the '67s sport 'glass hoods with a split scoop in the center. The complete front grille surrounding is also fiberglass and combines with the extended hood to make a very tasteful and effective change from the standard Mustang grille. The rear deck has a small spoiler lip molded in, and the rear fender caps or extensions (normally die-cast bolt-ons) are also of glass and flare up to match the deck contour, giving the entire rear a 'spoiler' configuration. Wide, special tail lights and a Cobra gas cap complete the distinctive appearance of the rear, but extractor type scoops cover the quarter sections of the roof and a small red 'safety' light is included in the aft opening of each, readily visible from behind and wired to actuate with the brake and turn-indicator lights. Lower in the rear quarter section is a functional air scoop for the rear drum-type brakes. This year you can buy the Shelby products in a wide range of colors and the bold, copattracting stripes have been left off. Shelby employees have found their 'ticket ratio' substantially reduced in the unstriped version.

Chassis changes are many. Power steering and power brakes are standard for both GT350 and GT500. The track, as on the production Mustang, is two inches wider. There is still good roll-stiffness, but the ride is quite a bit softer. Brake-pedal pressure is light, as is steering pressure, the latter a result of both the power assist AND a reduction of caster angle. This makes it a little bit too sensitive when you enter a fast corner, but this is a matter of driver adaptation. Also standard in both models is a roll-over bar. Optional fortunately — is shoulder harness of the reel type,

SHELBY MUSTANG GT 350 & 500

BASE PRICE \$4195 (GT 350) \$4395 (GT 500)

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0-40

0-50

0-60

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ENGINE

Type....V-8, iron, water-cooled Head.....Cast iron, removable Valves....Ohv, pushrod/rocker actuated

actuated GT 350 Max bhp.....306 @ 6000 rpm Max. Torque.....329 lbs. ft. @ 4200 rpm Bore....4.005 in. (101.73 mm) Stroke.....2.87 in. (72.9 mm) Displacement.....289 cu. in. 4737 cc Compression Ratio....10.5 to 1 Induction System...Single Holly 4 bbl.-750 cfm Exhaust System....12 V distributor ignition GT 500

GT 500 Max. bhp.....355 @ 5400 rpm Max. Torque....420 lbs. ft. @ 3200 rpm Bore.....4.13 in. (104.9 mm) Stroke....3984 in. (91.19 mm) Dicplarement 428 cu in

CHASSIS FrameUnit, welded Body.....Steel and fiberglass Front SuspensionUnequal arms, coil springs, adjusta-ble tube shocks, anti-sway

bar. par. ear Suspension....Live axle, multi-leaf springs, tube Rear

shocks Tire Size & Type.....Goodyear E70-15

WEIGHTS AND MEASURES

Wheelbase	108 in
Front Track	
Rear Track	
Overall Weight	51.6 in
Overall Width	70.9 in
Overall Length	51.6 in
Ground Clearance	6.5 in
Crankcase	6 gts
Cooling System	20 gts
Gas Tank	18 gals
CT 350	

GT 500

CLUTCH

Type.....Single disc, dry Diameter10.5 in. ActuationMechanical

TRANSMISSION

/pe	Four	-5	p	e	e	d,	1	fι	11	1	sy	n	chi	rc
atios:	1st									.2	2.3	2	to	1
	2nd									.1	1.6	9	to	1
	3rd									.1	2	9	to	1
	4th								• •	. 1	.0	C	to	1

BRAKES

Disc Diameter front11.3 in. rear10. in. Swept Arean.a.

DIFFERENTIAL

GT 350

semi-floating GT 500

STEERING

PERFORM	ANCE	RESU	LTS
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ACCELERATION					RECOMMENDED						
GT 350					SHIFT POINTS						
0-30	2.8 sec.	0-70	9.0 sec			GT 35	0	245			
0-40	4.1 sec.	0-80	11.8 sec	. N	lax. 1st .			mph			
0-50	5.6 sec.	0-90	15.0 sec		2nd			mph			
0-60	7.1 sec.	0-100			3rd .		104	mph			
			19.3 sec	. R	PM Red-li	ne	6200	rpm			
Stand	ding 1/4 mil	e	15.3 sec		SPE	ED RA	NGES				
Top	Speed (avg.	two-wa	v run).		IN	I GEA	RS:				
129	mph		.,	1	st	•••••	0 to 55	mph			
	CT	500		2	nd		15 to 78	mph			
0.20	28.000	0.70	91000	3	rd		25 to 104	mph			
0-30	2.8 sec.	0.90	11 8 500	• 4	th		35 to 129	mph			
0.50	4.0 sec.	0.00	15.0 500		BR	AKE T	TEST				
0.60	4.9 Sec.	0.100	10.0 500	. 7	4 Average	% G, c	over 10 s	tops.			
0.00	0.7 500.	0-100	16.9 sec	. F	ade enco	untered	on 8th	stop.			
Stand	ding 1/4 mil	e	14.3 sec		REFERE	NCE	FACTO	RS			
@	92 mph					GT 35	0				
Top S	Speed (av. 2 mph	two-way	y run)	· B	hp. per C	ubic In	ch	.1.06			
152 mp/				L	Lbs. per bhp8.8						
FUEL CONSUMPTION					Piston Speed @ Peak rpm						
T	GI	350	12		2870 ft./min. Swent Brake area per lb n a						
lest			15 mp	g	mept brui	GT 50	0	······			
Average15 mpg					Bhp. per Cubic Inch						
FUEL CONSUMPTION					Lbs. per bhp						
	GT	500		P	iston Spe	ed @ P	eak rpm				
Test			.9.4 mp	g	3586 ft./	min.					
Avera	age		11 mp	g S	wept Bra	ke area	per lb	.n.a.			
			SPEEDO	METER	ERROR						
GT350											
Indic	ated	30	40	50	60	70	80	90			
Actua	al	30	40	51	61	70	79	88			
GT500											
Indic	ated		40	50	60	70	80	90			
Actua	al	30	39	49	58	69	80	92			

that mounts to the top of the bar. Its angle is wrong for any real crash protection, but a transverse bar at shoulder height (needed for correct mounting) would also bar access to the 'optional-but-you-can't-get-onewithout-it' fold-down rear seat. Yet a lot of care has been exercised to make the bar both effective in an inverted emergency and to blend it into the interior as

unobtrusively as possible. Most of the interior is regular-production Mustang. A wood-rimmed steering wheel bears a Cobra insignia, and the right side of the dash has an emblem that designates the model. The large speedo and tach, mounted directly forward of the wheel, are quite legible, but a small, twin nacelle below the dash houses the oil pressure and ammeter (Continued on page 74)

SHELBY MUSTANGS

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gauges. You can't read them without leaning hard to the right in the driver's seat.

The GT500, with its very efficient automatic transmission (at this writing it still hasn't been decided if this model will be offered with manual fourspeed or not) doesn't perform much better than the GT350 in a straight line. but it does it with comparative ease and with a great reduction in noise level. Since the basic chassis in both models is a lot quieter, the solid lifters in the 350 are especially noticeable. This is further magnified at cruising speed because of the low (3.89) final drive ratio. The top speed of both models is nearly identical. The 500 got to 132 mph with a slow-reading speedo. Only the last ten mph came hard. The 350 worked fairly hard from the century mark up, but, even with ignition break-up on the top end, it still indicated 129 mph on a slightly fast speedo. With two Hollevs, the 325-hp rating of the 500's power plant is probably conservative. There's nothing conservative about the amount of torque it puts out, however. It is a *very* docile engine and a very responsive one. The carburction works well in both hard corners and hard stops - the severest tests. We didn't have a chance to check the hot-weather starting, but there certainly weren't any problems in a moderate ambient temperature. The 289 is. of course, in a higher state of tune with its hi-riser manifold and hot cam, so it idles rougher and noisier, but is otherwise quite easy to handle.

On the road, the 500 has a heavier 'feel' to it than the 350, but the only major difference is noticed when you come to dips in the road that really work the front springs and shocks. Then it wants to 'porpoise' a bit. The 350 is exceptional in this respect. It really flies over rough, dippy roads at high speed. Its comparatively better balance and an excellent choice of spring and shock rates are readily apparent. In corners, the 500 demands a considerably tighter 'hand on the reins'. but it gets around surprisingly well. with less understeer than we expected. The 350 will go through the same corner appreciably faster, and is less demanding from a control standpoint.

The brakes on both models worked exceptionally well, but a softer-thanprevious friction material made itself known by slight fade, squeak, and dive after continued hard use. Recovery was rapid and complete, however.

There is only two hundred dollars difference between the 350 and 500, so the major choice seems to be in the type of car you want. The 500 is a bit hotter in performance (with the automatic), considerably quieter, and more comfortable for normal use. It sacrifices overall handling and cornering power, however, and under-10-mpg fuel consumption is noteworthy in this de-

partment. Factory installed air-conditioning is also available this year, and would be far more logical with the big engine. The 350, on the other hand, is really a highly roadable GT, and a long way from uncomfortable or unmanageable in traffic. Our congratulations, to the guys who built it, were shrugged off with, "Wait until you see what we have on the market in a couple of years if you think this one is more sophisticated!" Meanwhile, the present model will more than do. It only takes a ride around the block to see what we mean. A