



S P E C I A L V E H I C L E T E A M



1 9 9 8  
MUSTANG  
COBRA

*The Ford*

*Special*

*Vehicle Team*

*designs and*

*develops*

*performance*

*vehicles that*

*can deliver*

*years of*

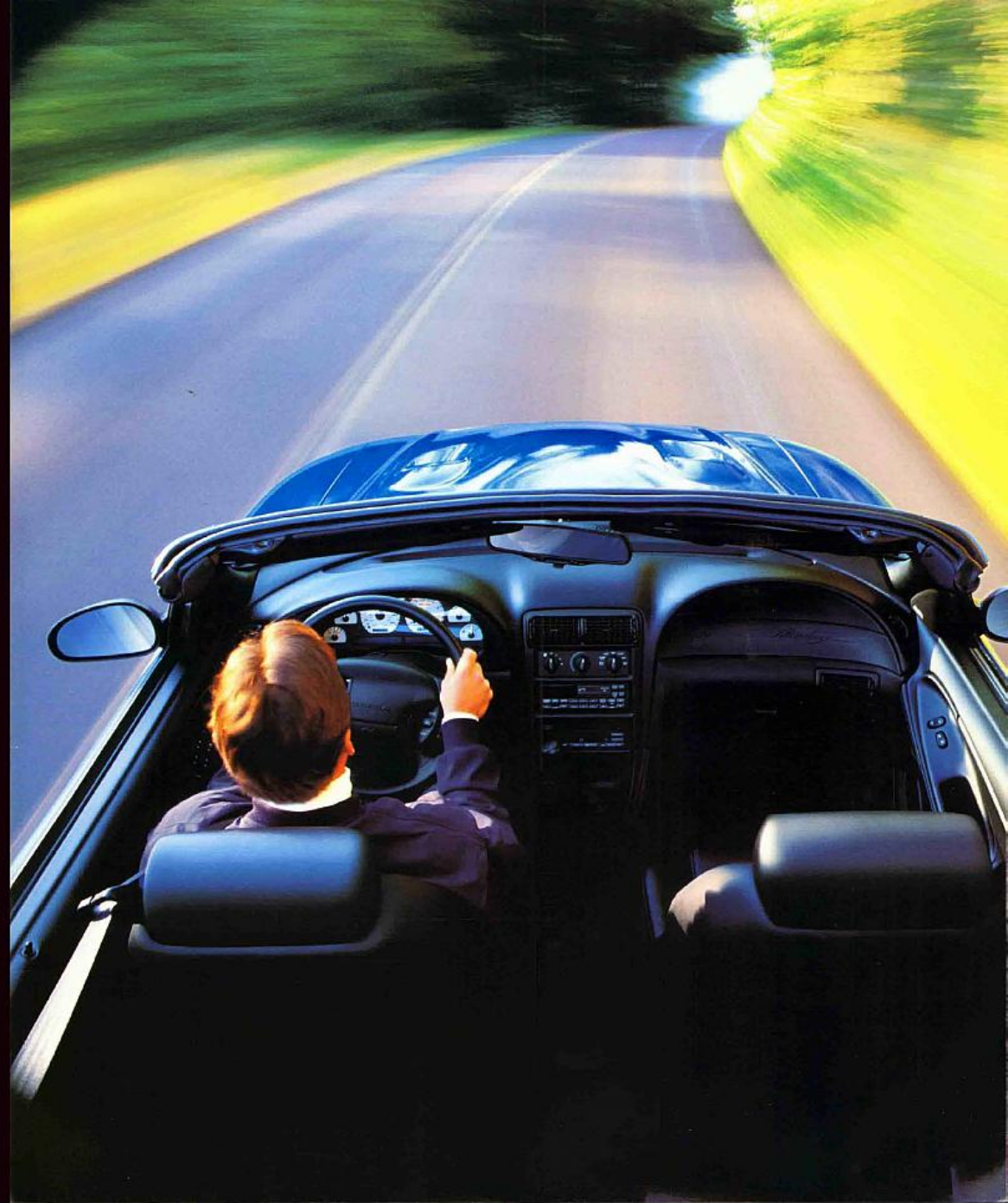
*driving*

*pleasure and*

*value for the*

*automotive*

*enthusiast.*



*"The SVT people have elevated the Mustang into a legitimate GT, a car you can really believe in as a long-distance mile eater rather than a short-haul tire smoker... The Cobra is a car that America can feel proud of and that car enthusiasts are going to adore."* —AUTOMOBILE MAGAZINE

## T H E P O N Y C A R P H E N O M E N O N

For more than three decades, people have loved the "pony car," that purely American invention which combines aggressive GT styling with V8 torque and horsepower. These all-American GTs were designed around the notion that the acceleration and visceral sensations an American V8 performance car can deliver are a unique and enjoyable experience. The original Ford Mustang defined the genre back in 1964.

But brute power married to a simplistic suspension became passé, and cars that pursued this sort of performance were relegated to the backwaters of modern automotive development. To survive in the 1990s, the

classic 1960s pony car was forced to evolve into a modern driver's car, combining a sophisticated, free-revving powerplant with a supple and compliant suspension. And the SVT Mustang Cobra has led the way.

The SVT Mustang Cobra strikes a balance between powertrain and chassis, cornering prowess and long-distance comfort, a balance in which no one system overwhelms any other. Of greatest importance, the Cobra is a joy to drive, performing well under a wide range of road conditions.

The enthusiast press has lauded the SVT Mustang Cobra as a milestone in the U.S. auto industry. In a comparison test between the SVT Mustang Cobra and the BMW M3, *Automobile Magazine* stated that "the SVT people have elevated the Mustang into a legitimate GT, a car you can really believe in as a long-distance mile eater rather than a short-haul tire smoker... The Cobra is a car that America can feel proud of and that car enthusiasts are going to adore."



# Engine Architecture

To provide the SVT Mustang Cobra with the kind of free-revving and powerful engine a driver's car must have, SVT employs a highly evolved performance derivative of the Ford 4.6-liter double overhead cam V8. This engine incorporates more than 100 specially designed components that enhance power and torque. To deliver this engine in a reasonably priced performance car, Ford drew on manufacturing and technical resources throughout the world.

## The Block and Crankshaft

Teksid, the Italian company responsible for casting the Cobra engine block and heads, also casts aluminum components for Ferrari road and Formula One cars, as well as other Italian and European performance cars. The Cobra block, cast in Carmagnola, Italy, has a "deep skirt," which means that the bottom edge of the block extends well below the crankshaft's centerline. This design endows the engine's bottom end with great rigidity and provides a superior mating surface with the transmission. For long-term durability,

iron cylinder liners are used.

The steel crankshaft is forged by Gerlach-Werke in Homburg/Saar, Germany (see photo on back cover). The counterweights, placed opposite every throw of the crankshaft, contribute to the engine's exceptionally smooth revving characteristics from idle to redline. A windage tray mounted beneath the crankshaft strips excess oil away from the crankshaft and directs it to the deep oil sump. The Cobra flywheel, which mates to the crankshaft with eight bolts, is made of nodular iron, an especially strong and durable metal.

## Pistons, Rods, and Bearings

The nodular iron main bearing caps attach to the block with not two or four, but six bolts, spreading retention and load over a greater area of the block. On each side of the bearing cap, two bolts reach upward into the block in conventional fashion, and one bolt runs horizontally into the side of the cap through the skirt of the block.

To handle the considerable torque generated by the Cobra engine, the sinter-forged alloy connecting rods feature big ends more robust than those found in any other Ford 4.6-liter passenger-car engine. Made from powdered metal that is compacted into the rough shape of a connecting rod and then "hot-struck" in a forge, these components are remarkably strong due to the millions of bonds created on the molecular level during the forging process.

After forging, the rod big ends are mechanically fracture-split to create the bearing cap. Due to the irregular, interlocking surfaces along the fracture line, the bearing cap and rod can be reassembled only one way, ensuring an exact fit and making the entire bearing cap assembly especially strong. All main and rod bearing inserts are made from aluminum.

The shallow-skirt alloy pistons give a compression ratio of 9.85:1. A friction-reducing coating on the pistons' sliding surfaces allows the engine to gather revs more quickly and also reduces wear on the piston and bore surfaces. The Cobra engine features fully floating piston pins, which further reduce friction.

## Double Overhead Cams

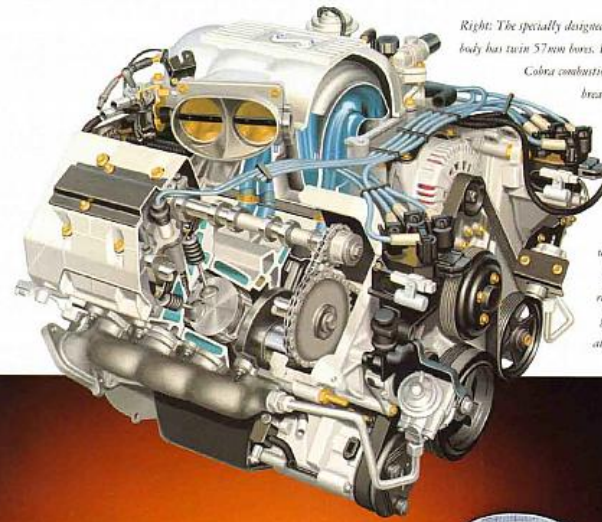
The SVT Cobra heads follow classic double overhead cam design principles. One random-link silent chain per cylinder bank rises from the front of the crankshaft to meet the exhaust camshaft. A secondary roller chain loops from the exhaust to the intake camshaft. All four cam chains have hydraulic tensioners to minimize slack and lash.

The specially designed hollow cams run in line-bored journals in the aluminum head castings and are secured from above with aluminum girdles. The cam lobes act upon roller-finger followers, which incorporate hydraulic valve-lash adjustment. The roller-finger followers press on the valve tips. Beehive valve springs control valve movement. Though the engine is redlined at 6,800 rpm, this robust head design could sustain higher engine speeds without valve float or damage to the head itself.

The architecture of the SVT Cobra engine allows free revving, and the ample power and torque a driver's car must have. The Cobra 4.6-liter four-valve V8 is the most technically advanced powerplant ever in a Mustang, delivering the kind of smooth, high-revving V8 power that competitors in its price range cannot match.



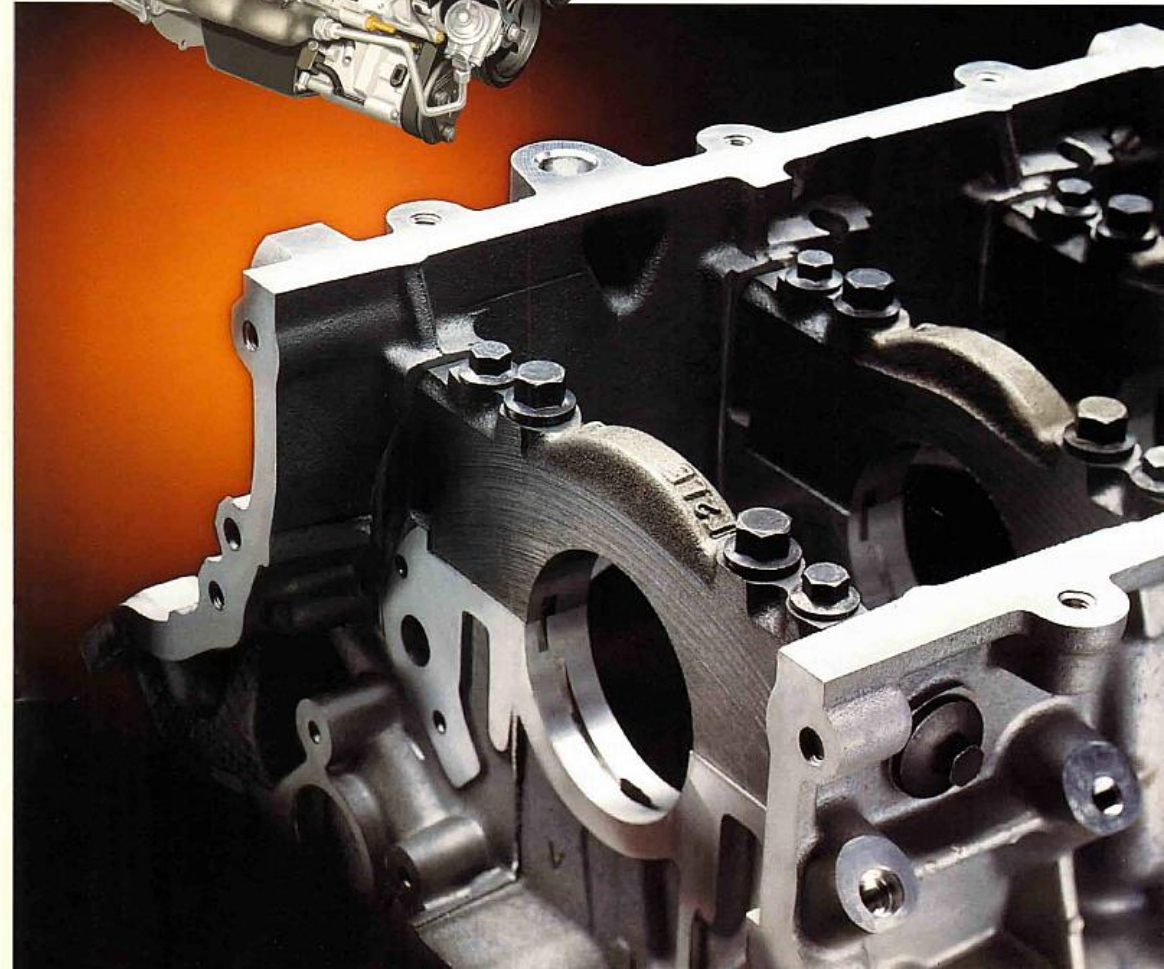
*Above: The SVT Cobra engine is assembled at the Ford Romeo Engine Plant on a dedicated Niche Line staffed by 12 two-person teams. When a team completes an engine, both assemblers scribe their names into an aluminum badge that is then affixed to the right cam cover. Right: Cobra alloy pistons feature a 9.85:1 compression ratio. The connecting rods are sinter-forgings, with fracture-split big ends.*

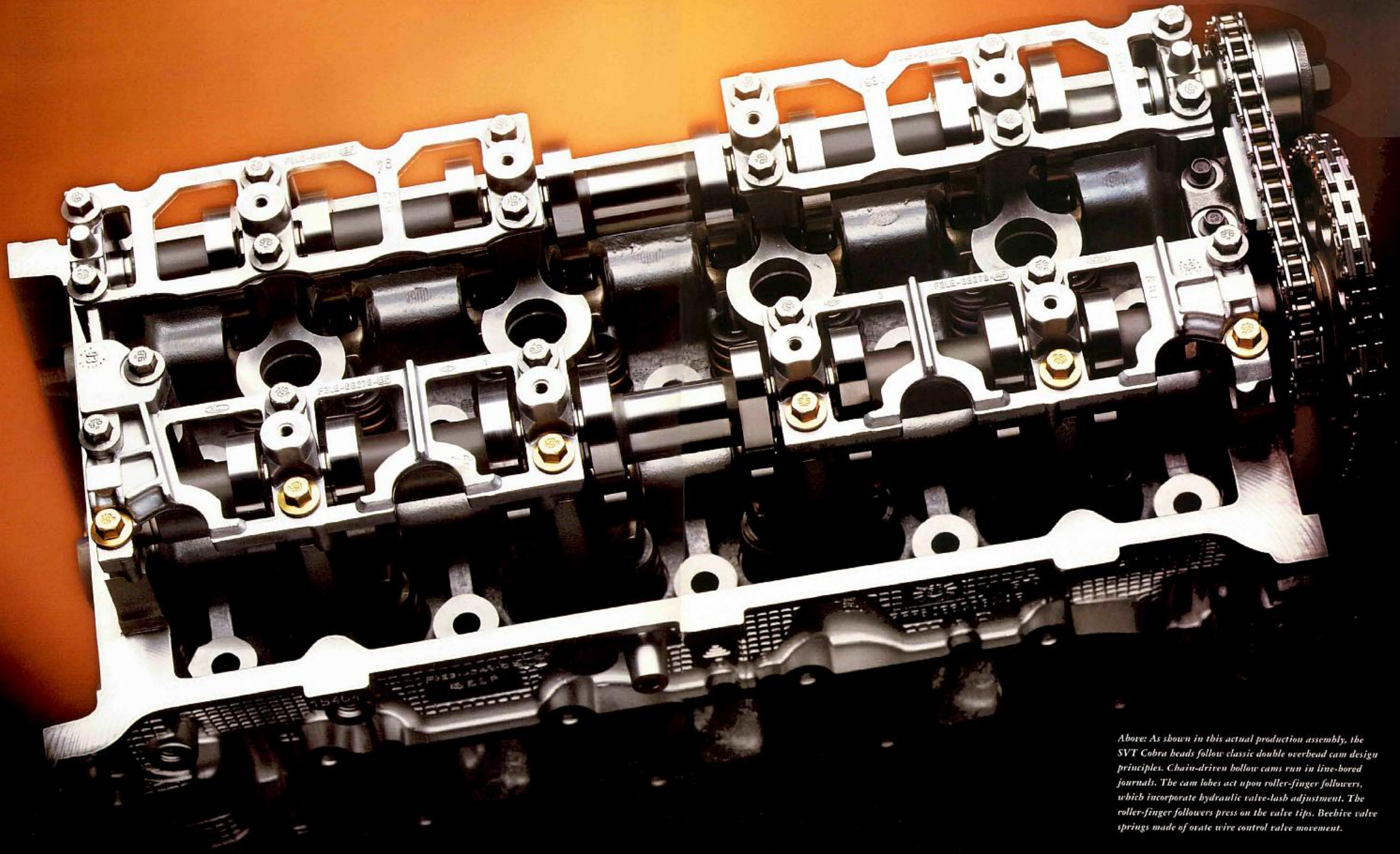


*Right: The specially designed Cobra throttle body has twin 57mm bores. Inset, right: The Cobra combustion chamber*

*breathes through four-valve heads.*

*Below: The nodular iron main bearing caps attach to the block with not two or four, but six bolts, spreading retention and load over a greater area of the cast-aluminum block.*





*Above: As shown in this actual production assembly, the SVT Cobra heads follow classic double overhead cam design principles. Chain-driven hollow cams run in line-bored journals. The cam lobes act upon roller-finger followers, which incorporate hydraulic valve-lash adjustment. The roller-finger followers press on the valve tips. Beehive valve springs made of ovate wire control valve movement.*

# The Cobra Powertrain

Ford powertrain engineers focused development on two main areas of the Cobra engine: enhancing the exceptional breathing abilities of a four-valve engine, and exploiting the free-revving nature of a twin-cam head design.

## Air Intake

The SVT Cobra engine begins the process of making horsepower with a specially designed conical air cleaner that sits just ahead of an 80mm air mass sensor. The air then moves further downstream to the twin 57mm bores of the throttle body. The butterfly valves in the bores open simultaneously, not in stages, giving the engine exceptional throttle response by quickly yet progressively delivering large volumes of air to the cast alloy plenum.

Eight tuned-length cast thin-wall runners (developed in partnership with an aerospace engineering company) are placed inside the plenum. One runner feeds each cylinder. A "Y" split placed in the manifold just above the valves directs air to the primary and secondary valves, but only one of the two intake valves is fed at all times. The sequential port fuel injection system features one 24 lb/hr injector per cylinder.

Placed above each secondary intake valve is a 3.4mm butterfly port throttle. Below 3,250 rpm, the port throttles are closed, thus blocking airflow to the secondary valves. With only one valve feeding each combustion chamber at low revs, airflow velocities are higher, and the resulting "swirl" of the fuel-air mixture is faster, producing better cylinder filling and quicker, more complete burning. This results in improved low-end torque and exhaust emissions.

Between 3,250 and 7,000 rpm, the engine computer makes two key adjustments: the secondary port throttles are opened, allowing a nearly unrestricted flow of air through all 16 intake valves at mid and high rpm; and the injectors deliver more fuel to the cylinders. The port throttle system helps preserve ample low-end torque, while providing the high-end horsepower characteristic of a twin-cam four-valve design.

## Engine Computer, Exhaust

The Ford EEC-V engine computer system monitors engine functions—air flow, rpm, crankshaft position, camshaft position—and can make millions of adjustments per second to deliver the spark and fuel-air mixture at the optimum time to maximize power and fuel economy. The SVT Cobra also has a highly sophisticated on-board engine diagnostic system that meets Federal OBD II requirements.

The SVT Cobra high-silicon, molybdenum iron exhaust manifolds feed exhaust gases into a stainless steel dual exhaust designed with the fewest possible bends in order to maximize efficiency and speed exhaust flow. The 2.25-inch exhaust pipes are linked by a crossover pipe that balances the pressure pulses through the low-restriction mufflers. The system is visually distinguished by twin 2.75-inch polished exhaust tips.

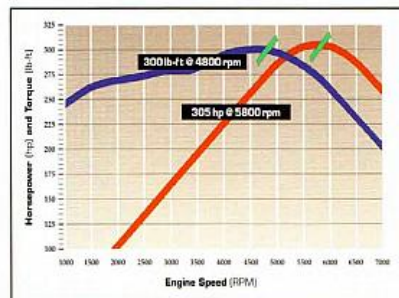
Consistent oil temperatures in this high-performance engine are maintained by a water-to-oil cooler mounted directly to the

left side of the block, with an oil filter placed on its end. Water returning from the radiator to the engine block first runs through the cooler, reducing oil temperatures significantly, allowing higher sustained revs, and extending potential engine life. The engine coolant system is designed to maintain normal coolant temperatures even under race track or autocross conditions.

## Transmission, Differential

The Cobra transmission is the Borg-Warner T45. First and second gears have large double-cone synchros to smooth engagement and increase durability, while reverse gear is removed from the geartrain when forward gears are engaged, reducing noise and wear. The T45 makes extensive use of needle and roller bearings, ensuring smooth and quiet operation. Finally, the clutch housing is integrated into the transmission assembly, providing a much stiffer engine/transmission package, which reduces powertrain noise and vibration.

Power is delivered to the rear wheels through a limited-slip differential with a 3.27 axle ratio, which provides strong acceleration in all gears, without sacrificing quiet and comfort in high-speed driving.



## Power, Torque, Performance

The SVT Cobra engine is free-revving from idle to its 6,800-rpm redline (fuel shut-off occurs at 7,000). It produces 305 horsepower at 5,800 rpm, and 300 lb-ft of torque at 4,800 rpm. The Cobra engine matches the traditional 1960s measure of horsepower: the Cobra V8 generates more than one horsepower per cubic inch. In the more contemporary (and more demanding) measure, the Cobra V8 develops 66.50 horsepower per liter.

In the end, an engine is intended to place a car in motion, not perform on a dynamometer. The 1998 SVT Cobra accelerates from a standstill to 60 mph in 5.9 seconds. The quarter-mile is covered in 13.99 seconds with a terminal speed of 101.6 mph. In closed-course testing, the SVT Cobra achieves a top speed of 152 mph.



*“Jam your right foot to the Cobra’s floorboard and magic happens.”*

*—Motor Trend, February 1997*



## S u s p e n s i o n   a n d   B r a k e s

Because the body structure of the Mustang is so rigid—the more rigid the body structure, the more accurately a suspension can be tuned—Ford engineers were able to create a suspension that is both supple and athletic. Rather than simply stiffen the Cobra suspension with heavier springs and severely damped shock absorbers, Ford engineers tuned it to easily soak up dips and bumps while maintaining excellent contact and communication with the road.

### Suspension Design and Tuning

The Cobra front suspension is a modified MacPherson-type design, with lower control arms, struts, and a 29mm stabilizer bar. Its geometry results in excellent steering turn-in and anti-dive characteristics. The hydraulically assisted rack-and-pinion steering has a communicative, precision feel.

The rear suspension employs a four-bar link system. Outboard lower trailing arms carry the springs, and a 26mm stabilizer bar links the two arms. Inboard upper trailing arms attach next to the differential housing. Horizontally mounted hydraulic leading links help locate the axle, limiting both its

fore-aft movement and wheel hop during aggressive acceleration from a standstill and out of corners.

### Wheels, Tires, Brakes

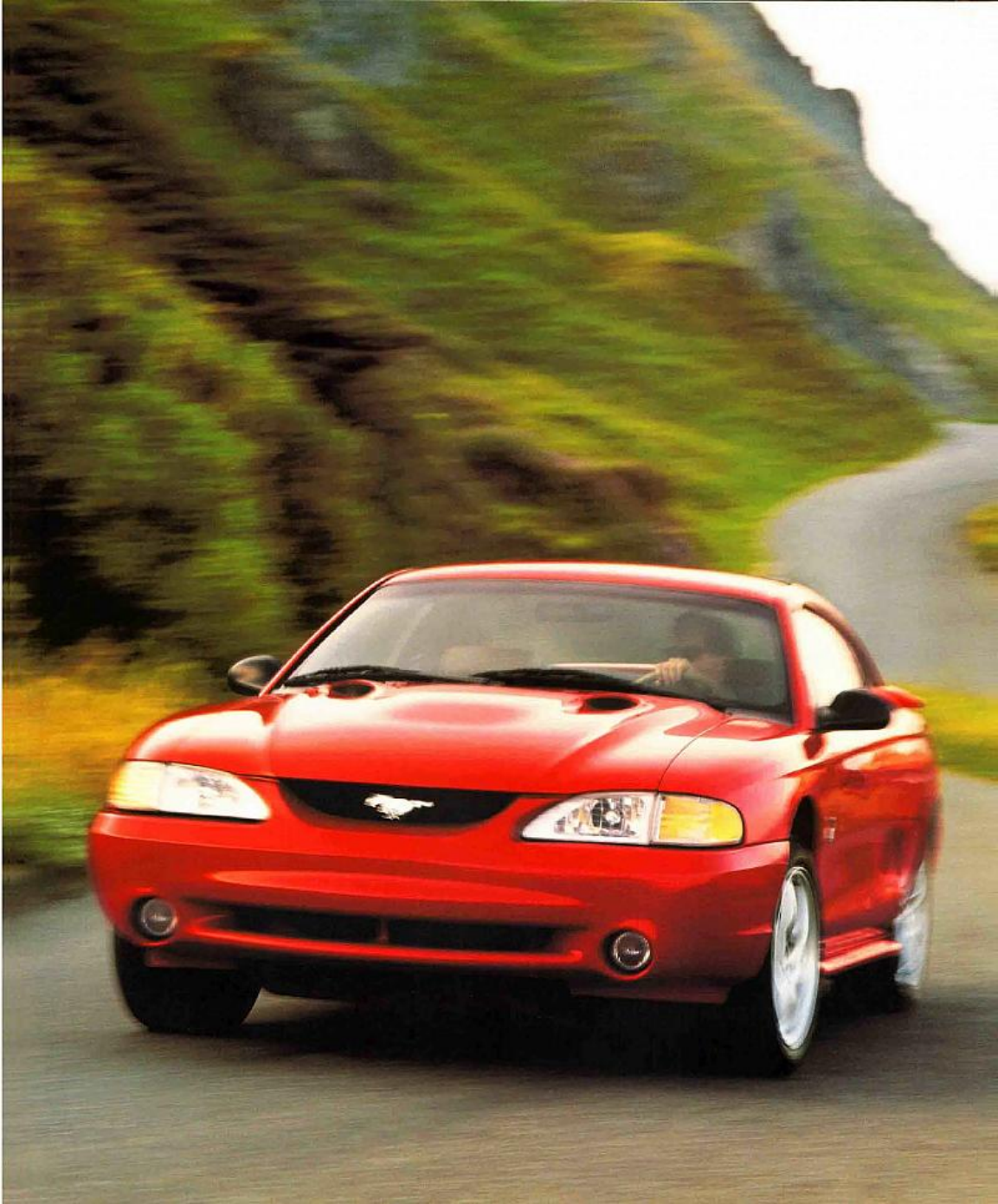
The newly designed 1998 Cobra cast alloy wheels and BFGoodrich tires are both derived from those first used on the 1995 SVT Mustang Cobra R race car: the 17.0 x 8.0-inch five-spoke wheels are shod with 245/45-17 BFGoodrich Comp T/A ZR radials.

Braking is accomplished with four-wheel discs. Up front, the 13.0-inch vented discs feature twin-piston calipers sourced from PBR, an Australian manufacturer famous for its race-proven brake components. The iron rotors feature curved internal vanes that effectively and rapidly dissipate the heat that can build up under hard braking.

The four-wheel vented discs on the Cobra are monitored and controlled by a three-channel, four-sensor ABS system. This braking system gives the Cobra short stopping distances (60-0 mph in 127 feet) with excellent pedal modulation and limited kickback under ABS braking.



Above, left to right: The Cobra 13.0-inch vented front discs feature curved internal vanes to dissipate heat quickly. The PBR front calipers are a twin-piston design. The Cobra brakes are monitored and controlled by a three-channel, four-sensor ABS system that can modulate and adjust each of the four calipers every 10 milliseconds. The Cobra 17.0-inch five-spoke alloy wheels are wrapped with BFGoodrich Comp T/A ZR radials.







## Special Features

To complement the significant powertrain and suspension attributes, the SVT Cobra is visually distinguished by a number of refinements. These include a special hood, rear valance panel that reads "COBRA," and polished exhaust tips. A front fascia incorporating round fog lamps remains exclusive to the SVT Cobra.

The driver's seat features four-way power adjustments and adjustments for rake (leather seats include a power lumbar feature). The steering wheel is leather-wrapped. Instruments have white faces with black numbers; at night, the numbers turn blue/green for visibility. The shift knob and shifter boot are leather-wrapped.

To protect your 1998 SVT Cobra, Ford has developed a passive anti-theft system, called SecuriLock. Each SVT Cobra key carries a radio transponder that contains a unique code selected from a potential of 72 million billion combinations. An antenna located in the steering column "interrogates" the key, then the key code is transmitted to a control module, where it is compared to the codes stored in the control module. If the key's code matches, a signal is sent to the EEC-V system to "enable" the engine to run. If the key code does not match or if no encoded key is detected, the EEC-V system will not allow the engine to run. Up to

16 additional keys can be programmed to operate the vehicle provided an original key is available at the same time. The SecuriLock system proved its effectiveness in 1996, as the theft rate for 1996 Mustang GTs and Cobras dropped by 77 percent compared to rates for 1995 Mustang GTs and Cobras. These dramatically lowered theft rates were maintained in 1997.\*

Finally, as in 1994, '95, '96, and '97, SVT will produce a limited run of Cobra convertibles. For 1998, the SVT Cobra convertible will be available in all five exterior Cobra colors: Laser Red Tinted Clearcoat Metallic, Black Clearcoat, Crystal White Clearcoat, and Bright Atlantic Blue Clearcoat. Canary Yellow Clearcoat will be available mid-year.



*Above: The Cobra hood is distinguished by a domed center section. Left: The Cobra features white-faced instruments.*





*Below and far right: In 1997, the Bondurant School of High-Performance Driving began using the SVT Mustang Cobra as its primary training car. Inset, far right: An SVT Mustang Cobra R won the Professional Sportscar Racing organization's Grand Sport class at Daytona in February 1997. The car was driven by Boris Said III and Shawn Hendricks.*

## T h e U l t i m a t e G o a l

The nucleus of Ford SVT is a small close-knit group of engineers, product planners, and marketing people who meet on a weekly basis. In creating its vehicles, SVT interacts with and draws heavily on the talents and knowledge of other driving enthusiasts at Ford and its key suppliers who work in the disciplines of design, product development, manufacturing, and marketing.

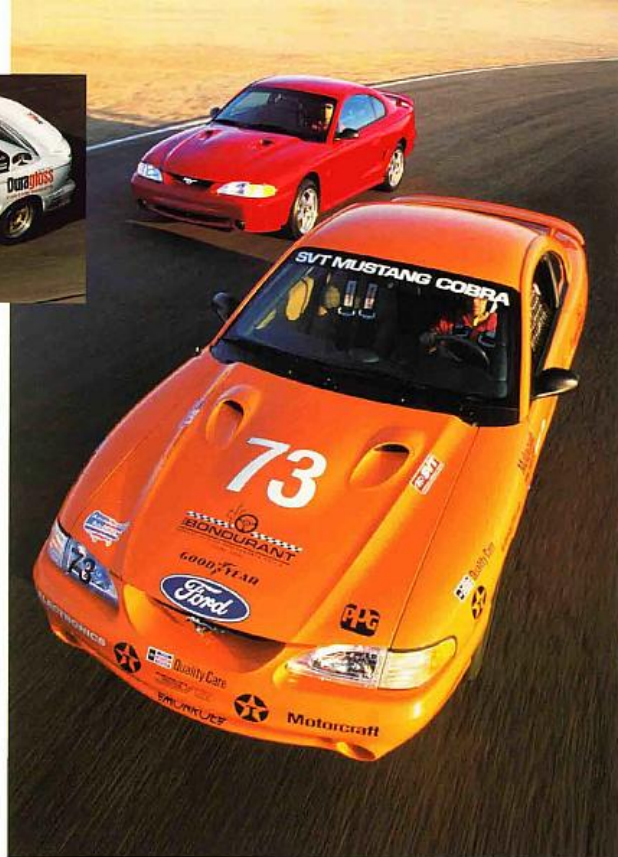
Of the 4,900 Ford dealers in North America, fewer than 750 are certified to represent SVT. The annual commitment of these dealers to SVT includes in-depth technical seminars, training in customer-care techniques specific to the enthusiast driver, and instruction in car control and performance driving. SVT certified Ford dealers are dedicated to creating a culture within their dealerships that is friendly to the knowledgeable driving



enthusiast. For the name and location of your nearest SVT certified Ford dealership, call 1-800-FORD-SVT or visit our web site at <http://www.fordvehicles.com/SVT>.

At the heart of the SVT philosophy is a deep commitment to skillful and enthusiastic driving. Every driver should be competent and responsible behind the wheel of a car, but SVT and its dealers believe drivers of performance cars like the SVT Cobra and its stablemate, the SVT Contour, should possess exemplary car-control skills. To foster that ethic, SVT offers new SVT owners a special discount at the Bob Bondurant School of High-Performance Driving. It's the desire of everyone at the factory and at SVT certified Ford dealerships that SVT owners take advantage of this opportunity to hone their car-control skills, not only to become better and safer drivers, but also because such training will enhance the driving experience. In the spring of 1997 the Bondurant school began a transition to the SVT Mustang Cobra as its primary training vehicle.

The ultimate goal for Ford SVT and SVT dealers is to provide enthusiasts with many years of enjoyable driving. SVT invites you to visit your nearest SVT certified Ford dealer to experience the 1998 Mustang Cobra.



## The SVT Family



1993 SVT Mustang Cobra



1993-95 SVT F-150 Lightning



1993 SVT Mustang Cobra R



1994-95 SVT Mustang Cobra



1994 SVT Mustang Cobra Indy Pace Car



1995 SVT Mustang Cobra R



1996-97 SVT Mustang Cobra



1998 SVT Contour

## 1998 FORD SVT MUSTANG COBRA TECHNICAL DATA

### ENGINE

Configuration	Longitudinally mounted, 90-degree V8, cast aluminum block and heads, iron cylinder liners, fully counterweighted forged crankshaft
Bore x Stroke	90.2mm x 90.0mm
Displacement	4,601cc/280cid
Compression ratio	9.85:1
Horsepower (SAE net)	305 hp @ 5,800 rpm
Torque	300 lbs./ft. @ 4,800 rpm
Redline	6,800 rpm (fuel shut-off at 7,000 rpm)
Valvetrain	Double overhead cams (inflow camshafts), chain drive to exhaust cams, secondary chain from exhaust to intake cams, roller finger followers with hydraulic lash adjustment, ovate-wire bechive valve springs, four valves per cylinder
Intake valves	2 per cylinder, 37mm head diameter
Exhaust valves	2 per cylinder, 30mm head diameter
Fuel system	Sequential electronic fuel injection
Intake manifold	Tuned length thin-wall cast aluminum runners, cast aluminum plenum chamber
Throttle body	Twin 57mm bore throttle body, simultaneously opening
Air-mass sensor	80mm diameter
Port throttles	Electronically actuated 34mm port throttles open to secondary intake valves at 3,250 rpm
Exhaust manifolds	Cast high-silicon, molybdenum iron, manifold type, stud and nut attachment
Exhaust system	Dual, stainless steel, 2.25 in. diameter tubes

### DRIVETRAIN

Rear axle	8.8 in. limited-slip differential
Driveshaft	Steel, with hardened yoke
Transmission	Borg-Warner T45 5-speed manual; integral clutch housing
Gear	Ratio Speed
1st	3.37 45 mph (72 kph)
2nd	1.99 77 (124)
3rd	1.33 115 (185)
4th	1.00 152 (245)
5th	0.67
Reverse	3.22
Final drive	3.27

### SUSPENSION

Front	Modified MacPherson strut, with separate spring on lower arm, 400/505 lbs./in. variable-rate coil springs, 29mm stabilizer bar
Rear	Rigid axle, upper and lower trailing arms, two leading hydraulic links, 165/265 lbs./in. variable-rate coil springs, shock absorbers, 26mm stabilizer bar

### STEERING

Type	Power assist, rack and pinion
Gear ratio	14.7:1 (on center)
Turns, lock to lock	2.38
Turning diameter	40.8 feet

### BRAKES

Front	13.0 in. (330mm) vented disc, PBR twin-piston caliper
Rear	11.65 in. (296mm) vented disc, single-piston caliper
ABS	Three-channel, four-sensor system

### WHEELS AND TIRES

Wheels	Cast alloy, painted surface, five-spoke, 17 x 8 in.
Tires	BF Goodrich Comp T/A ZR, 245/45ZR-17, unidirectional tread pattern

### COBRA INCLUDES

Supplemental restraint system: Driver- and passenger-side (air bag). Always wear your safety belt, and secure children in the rear seat.
Tilt steering wheel
Anti-lock brake system
Articulated sport seats (four-way power for driver) with cloth/vinyl trim, cloth head restraint, and power lumbar support (leather only)
Premium electronic AM/FM stereo cassette
Compact disc player
Power Group: Power side windows, power door locks, power deck lid release, dual electric remote control mirrors
Rear window defroster
Air-conditioning/manual control
Speed control
Front floor mats
Dual illuminated visor mirrors
Sensors keyless illuminated entry
SecurLock anti-theft system

### AVAILABLE OPTIONS

Electronics and Leather Trim Group, consisting of: Leather seating surfaces; Sport Buckets with power lumbar support; Mach 460 electronic AM/FM stereo/cassette; Total Anti-Theft System (TATS)
Rear deck spoiler
California emissions system
High-altitude principal use

### COLOR AND TRIM

Exterior	Crystal White Clearcoat, Black Clearcoat, Laser Red Tinted Clearcoat, Bright Atlantic Blue Clearcoat (black interior only). Late availability of Canary Yellow Clearcoat (black interior only)
Interior	Black Cloth, Saddle Cloth, Black Leather, Saddle Leather

### DIMENSIONS AND CAPACITIES

Wheelbase	101.3 in./2,573mm
Length	182.5 in./4,636mm
Height	53.2 in./1,351mm (1.35mm)
Width	71.8 in./1,823mm
Track, F/R	60.0 in./58.7 in.; 1,524mm/1,491mm
Head Room	38.2 in. (38.1 in.)/970mm (968mm)
Leg Room	41.9 in./1,064mm
Curb Weight	3,391 lbs. (3,531 lbs./1,541kg) (1,605kg)
Fuel Tank	15.4 gal./58 liters
Weight Dist., F/R, %	57/43

(Numbers in parentheses are for Convertible)

### PERFORMANCE

0-60 mph	5.9 seconds
Quarter mile	13.99 seconds @ 101.6 mph
Top speed	152 mph
Braking, 60-0 mph	127 ft.
Braking, 80-0 mph	227 ft.
80 ft. skidpad	52.1 mph
100 ft. skidpad	0.89g

(All performance numbers were generated under closed-course conditions on a test track.)



**Ownership Experience**  
We've gone to great lengths to make the experience of driving a new Mustang enjoyable. The experience of ownership, too.

We stand behind your car with our 3-year/50,000-mile bumper-to-bumper limited warranty. And we look after your security with our second Roadside Assistance Program. Expect nothing less from a "customer-driven" company.

**Roadside Assistance Program**  
Every new Ford includes the assurance of an emergency on-road Roadside Assistance program provided by Ford Auto Club, Inc. during the 3-year/50,000-mile bumper-to-bumper warranty period.

Help is just a toll-free phone call away. 24 hours a day, anywhere in the 50 United States, should you need any towing assistance, fuel delivery,

tire change, a jump start, or even help when you're locked out of your car. Ask your Ford Dealer for complete details on the Ford Roadside Assistance Program and also for a copy of the limited warranty.

**Bumper-to-Bumper Coverage**  
The 3-year/50,000-mile bumper-to-bumper coverage of Ford's new vehicle limited warranty covers the complete vehicle (except tires, battery, service adjustments, and other items covered under separate provisions) against defects in factory-supplied materials or workmanship. For complete information, see your dealer.

**Ford Credit**  
Ford Credit is a full service company that makes a wide variety of financing and leasing programs available to qualified buyers through the Ford Dealer of your choice.

Through Ford Credit's financing of Red Carpet Leasing, arrangements tailored to your special needs can be made quickly and conveniently right at the dealership. Ask your Ford Dealer for the facts on any of Ford Credit's financing or lease plans.

**Extended Service Plan**  
Optional Ford Extended Service Plans can cover major components on new Ford cars and light trucks for longer than the vehicle's basic warranty. Your dealer has full details.

**Dealer-Installed Accessories**  
The enjoyment of owning a new car begins before you take delivery, when you're selecting colors and features. Along with the items listed elsewhere in the catalog, there are Ford-brand accessories available at your dealer. They meet or exceed our strict specifications, and they are custom

designed and manufactured to complement the style and quality of your Ford-built vehicle.

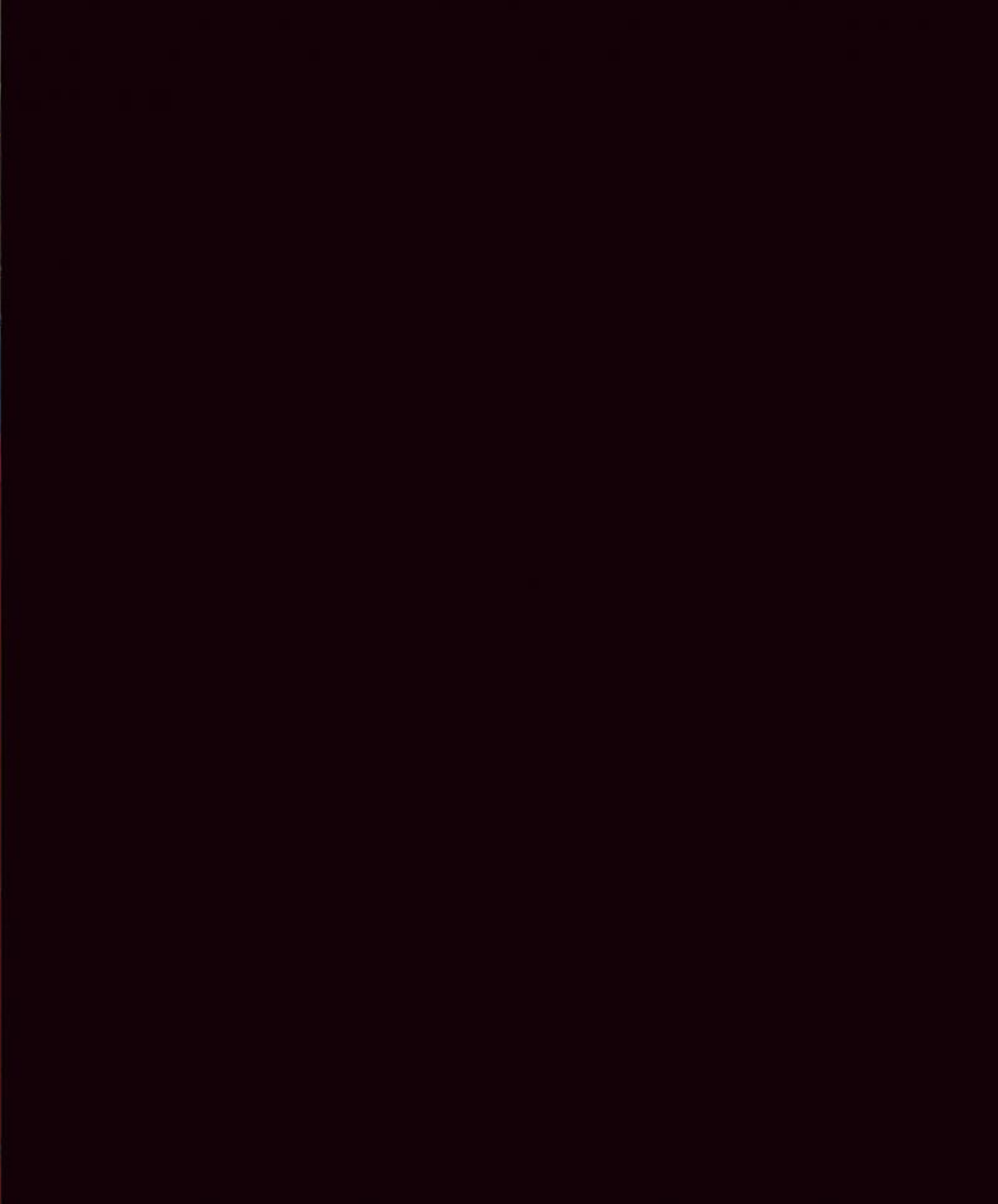
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\*Theft rate data courtesy of the National Insurance Crime Bureau (NICB). NICB data compare theft rates of 1995 Mustang GTs to 1996 SecurLock-equipped Mustang GTs. 1997 SVT Cobras theft rates are similar to 1996 rates.

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All photographs were produced under closed-course conditions with a professional driver.





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