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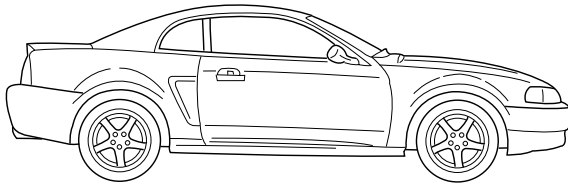
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Introduction

INTRODUCTION

Welcome to the Ford Special Vehicle Team family and thank you for purchasing the Ford SVT Mustang Cobra. We trust that our tremendous dedication to the automotive enthusiast's total ownership experience will provide you with many miles of exhilarating, safe, and comfortable driving in your new SVT Mustang Cobra.



SVT strives for balance between powertrain and chassis, cornering prowess and long-distance comfort, always working to build cars in which no one system overwhelms or overshadows any other. In the SVT Mustang Cobra, that philosophy is carried forward through a sophisticated powertrain as well as significant interior, exterior, suspension, and braking system components.

This supplement complements your Mustang Owner's Guide and provides information specific to SVT and the SVT Mustang Cobra. By referring to the pages listed in this supplement, you can identify those features, recommendations, and specifications unique to your new SVT Mustang Cobra. **Refer to your Mustang Owner's Guide for other required information and warnings.**

If you have any questions, please call us at the Ford Special Vehicle Team hotline from 8:30 a.m. to 6:00 p.m. EST at 1-800-FORD-SVT (1-800-367-3788).

Introduction

SVT HISTORY

The Ford Special Vehicle Team (SVT) was established in 1991. SVT was commissioned to create factory-produced driver's cars and trucks; vehicles that possess a balance between engine and chassis, roadholding and a supple ride, refinement and performance capability. These qualities are the core of the SVT product development philosophy.

The nucleus of SVT, Team Mustang, and SVE (Ford Special Vehicle Engineering) is a small, cross-functional group of engineers, product planners, and marketing people who meet on a weekly basis to ensure SVT vehicles and their mission remain focused. In addition to Ford SVE and Team Mustang, SVT draws heavily on the talents and knowledge of other driving enthusiasts at Ford who work in the key disciplines of design, product development, manufacturing, and marketing. The heart of the SVT philosophy is a deep commitment to skillful and enthusiastic driving. The ultimate goal of everyone who works with SVT and SVE is to create vehicles that speak to the needs and desires of the knowledgeable driving enthusiast.

Every SVT vehicle produced has been designed and developed with four key virtues in mind: Performance, Substance, Exclusivity, and Value. These hallmarks have driven the SVT Mustang Cobra since 1993, the original SVT Lightning from 1993 to 1995, the SVT Contour introduced in early 1997 as a 1998 model, and the 1999 SVT F-150 Lightning.

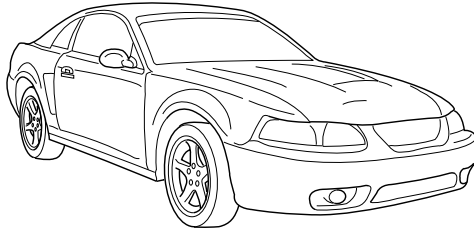
Introduction

SVT OWNERSHIP BENEFITS

- Dealer body of approximately 600 specially trained and certified SVT dealers who are dedicated to a culture within their dealerships that is friendly to the knowledgeable driving enthusiast.
- On-going commitment from SVT to provide its dealers with constant support from the SVT Information Center at 1-800-FORD-SVT, in-depth technical seminars, and training in SVT Owner/Enthusiast care techniques to assure outstanding quality throughout the entire SVT ownership experience.
- A Certificate of Authenticity is provided to the owner or lessee of every SVT vehicle. It includes the Vehicle Identification Number, production sequence number out of the total number of vehicles built, and the date of manufacture. These certificates are printed at the end of the vehicle's model-year production run and are automatically provided to the first owner.
- SVT-specific line of apparel and accessories available through your SVT dealer. Contact the SVT team leader at the dealership for details and ordering information or call 1-800-FORD-SVT. To order direct, call 1-888-490-6837.
- The *SVT Enthusiast*, written and published by SVT Headquarters. The *SVT Enthusiast*, contains information of interest to SVT owners and prospective buyers, with the latest technical information available from SVT, interviews with members of SVT, SVE and Team Mustang suggested drive routes across the United States and Canada designed to maximize your enjoyment of your SVT vehicle.
- SVT, in conjunction with The Bob Bondurant School of High Performance Driving in Phoenix, AZ, gives the owner the opportunity to attend the school at a 20% discount. The school can be contacted directly at 1-800-842-7223.

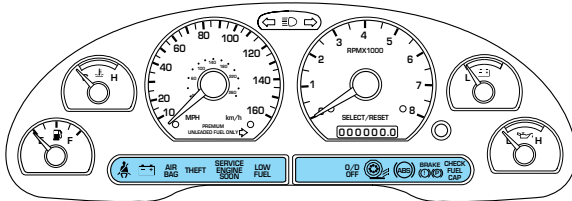
SVT Cobra specific features

SVT COBRA SPECIFIC FEATURES



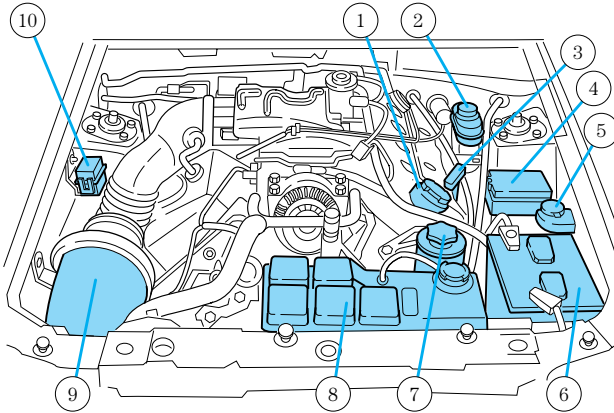
- 4.6L DOHC 32V V-8 Engine — 320 horsepower, 317 lb-ft torque
- Anti-lock Brake System with Traction Control™
- Limited-slip independent rear suspension
- Engine oil cooler
- Round fog lamps
- Sport seats
- Premium electronic AM/FM stereo/CD
- Dual illuminated visor mirrors
- Unique wheels and tires

SPORT INSTRUMENT CLUSTER



Engine/Transmission

4.6L DOHC V-8 ENGINE



1. Engine oil filler cap
2. Brake fluid reservoir
3. Engine oil dipstick
4. Power distribution box
5. Windshield washer fluid reservoir
6. Battery
7. Power steering fluid reservoir
8. Engine coolant reservoir
9. Air filter assembly
10. Auxiliary power distribution box (if equipped)

Engine/Transmission

Item	Description
Configuration	Longitudinally mounted, 90-degree V8, cast aluminum cylinder block and cylinder heads
Bore x Stroke	90.2 x 90.0 mm (3.55 x 3.54 in)
Displacement	4601 cc/280 cid
Compression ratio	9.85:1
Horsepower	239 kW @ 6000 rpm (320 HP @ 6000 rpm)
Torque	430 Nm @ 4800 rpm (317 lb.-ft. @ 4750 rpm)
Redline	6800 rpm (fuel shut-off at 7000 rpm)
Specific output	66.269.6Hp per liter
Valvetrain	Dual overhead chain-driven cams, roller finger followers with hydraulic lash adjustment, ovate-wire valve springs, four valves per cylinder
Fuel system	Sequential electronic fuel injection
Mass air sensor	80 mm (3.15 in) diameter
Throttle body	Twin 57 mm (2.24 in) diameter bore-simultaneously open
Exhaust manifolds	Cast-high silicon, molybdenum iron
Exhaust system	Dual-stainless steel

Drivetrain

DRIVETRAIN

Item	Description		
Rear axle	8.8 inch limited-slip differential with Independent Rear Suspension and 3.27:1 final drive ratio		
Driveshaft	Steel with hardened yoke		
Transmission	Tremec T45 5-speed manual with integral clutch housing or TR3650 5-speed manual with integral clutch housing		
Gear ratios	<i>Gear</i>	<i>Ratio</i>	<i>Speed</i>
	1st	3.37	72 km/h (45 mph)
	2nd	1.99	124 km/h (77 mph)
	3rd	1.33	185 km/h (115 mph)
	4th	1.00	242 km/h (150 mph)
	5th	0.67	-
	Reverse	3.22	-

Performance

PERFORMANCE

Item	Description
0-100 km/h (0-60 mph)	5.4 seconds
400 meters (quarter mile)	13.8 seconds @ 164.1 km/h (102 mph)
Top speed	241 km/h (150 mph)
Braking, 100-0 km/h (60-0 mph)	39 meters (127 ft.)
30.5 meter skid pad (100 ft.)	0.90 g

Chassis

WHEELS AND TIRES

Tires	245/45ZR17 Comp T/A performance tire
Wheels	SVT-Signature style, 17 in x 8.0 in aluminum 5-spoke wheels

SUSPENSION

- Independent Rear Suspension (IRS)
- Limited slip 3.27 axle ratio

Options, color and trim

OPTIONS, COLOR AND TRIM

- California emissions system
- CD player
- High altitude principal use
- Leather seating surfaces (includes power lumbar support)
- Remote keyless illuminated entry
- MACH 460 electronic AM/FM stereo/CD
- Rear spoiler

Exterior:

- Ultra White Clearcoat
- Ebony Clearcoat
- Laser Tint Red Clearcoat
- Atlantic Blue Clearcoat
- Silver Clearcoat

Interior:

- Midnight Dark Charcoal Leather
- Medium Parchment Leather

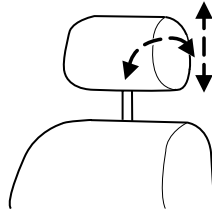
Options, color and trim

4-WAY HEAD RESTRAINTS (IF EQUIPPED)

Your vehicle's seats may be equipped with four-way adjustable head restraints. The purpose of these head restraints is to help limit head motion in the event of a rear collision. To properly adjust your head restraints, lift the head restraint so that it is located directly behind your head or as close to that position as possible. Refer to the following to raise and lower the head restraints.

The head restraints can be moved in four directions:

- up and down
- forward or backward



ENERGY MANAGEMENT FEATURE

- This vehicle has a seat belt system with an energy management feature at the front outboard seating positions to help further reduce the risk of injury in the event of a head-on collision.
- This seat belt system has a retractor assembly that is designed to pay out webbing in a controlled manner. This feature is designed to help reduce the belt force acting on the occupant's chest.

Options, color and trim



After any vehicle collision, the seat belt system at all outboard seating positions (except driver, which has no “automatic locking retractor” feature) must be checked by a qualified technician to verify that the “automatic locking retractor” feature for child seats is still functioning properly. In addition, all seat belts should be checked for proper function.



BELT AND RETRACTOR ASSEMBLY MUST BE REPLACED if the seat belt assembly “automatic locking retractor” feature or any other seat belt function is not operating properly when checked according to the procedures in Workshop Manual.



Failure to replace the Belt and Retractor assembly could increase the risk of injury in collisions.

Maintenance

MOTORCRAFT PART NUMBERS

Component	4.6L DOHC V8 engine
Air filter element	FA-1634
Fuel filter	FG-800A
Battery	BXT-59
Oil filter	FL-820S
PCV valve	EV-111153
Spark plugs*	AWSF-32E

* Refer to Vehicle Emissions Control Information (VECI) decal for spark plug gap information.

REFILL CAPACITIES

Fluid	Ford Part Name	Capacity
Brake fluid	High Performance DOT 3 Motor Vehicle Brake Fluid	Fill to line on reservoir
Engine oil (includes filter change)	Motorcraft SAE 5W-20Super Premium Motor Oil	5.7L (6.0 quarts)
Engine coolant ¹	Premium Engine Coolant	13.3L (14.1 quarts)
Power steering fluid	Motorcraft MERCON® ATF	Fill to between MIN and MAX lines on reservoir
Rear axle lubricant ²	Motorcraft SAE 80W-90 Premium Rear Axle Lubricant	1.4L (2.9 pints)
Fuel tank	N/A	59.4L (15.7 gallons)
Transmission fluid ³	Motorcraft MERCON® ATF	3.1L (6.6 pints) ⁴
Windshield washer fluid	Ultra-Clear Windshield Washer Concentrate	3.8L (4.0 quarts)

¹ Use Ford Premium Engine Coolant (green in color). DO NOT USE Ford Extended Life Engine Coolant (orange in color). Refer to *Adding engine coolant, in the Maintenance and Care chapter.*

Maintenance

² Rear axle lubricants do not need to be checked or changed unless a leak is suspected, service is required or the axle assembly has been submerged in water. The axle lubricant should be changed any time the rear axle has been submerged in water. Fill 6 mm to 14 mm (1/4 inch to 9/16 inch) below bottom of fill hole. Add 118 ml (4 oz.) of Additive Friction Modifier C8AZ-19B546-A or equivalent meeting Ford specification EST-M2C118-A for complete refill of Traction-Lok axles.

³ Ensure the correct automatic transmission fluid is used. Transmission fluid requirements are indicated on the dipstick or on the dipstick handle. MERCON® and MERCON® V are not interchangeable. DO NOT mix MERCON® and MERCON® V. Refer to your scheduled maintenance guide to determine the correct service interval.

⁴ Service refill capacity is determined by filling the transmission to the bottom of the filler hole with the vehicle on a level surface.

OCTANE RECOMMENDATIONS

Your vehicle is designed to use “Premium” unleaded gasoline with an (R+M)/2 octane



rating of 91 or higher for optimum performance. The use of gasolines with lower octane ratings may degrade performance. We do not recommend the use of gasolines labeled as “Premium” in high altitude areas that are sold with octane ratings of less than 91.

If your engine knocks under most driving conditions while you are using fuel with the recommended octane rating, see your dealer or a qualified service technician to prevent any engine damage.

Maintenance

CHECKING ENGINE COOLANT

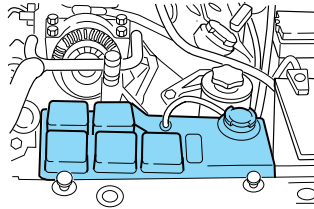
Your engine's cooling system has been factory-filled with a 50/50 mixture of distilled water and Ford Premium Engine Coolant E2FZ-19549-AA (in Canada, Motorcraft CXC-10), or an equivalent premium engine coolant that meets Ford specification ESE-M97B44-A.

A **50/50 mixture** of distilled water and Ford Premium Engine Coolant **provides:**

- **maximum cooling system efficiency.**
- **freeze protection down to -36° C (-34° F).**
- **boiling protection up to 129° C (265° F).**
- **protection against rust and other forms of corrosion.**
- **an accurate temperature readout from the engine coolant gauge.**

The engine coolant must be maintained at the correct fluid level and concentration to work properly. If the engine coolant fluid level and concentration is not maintained correctly, damage to the engine and cooling system may result.

When the engine is cold, check the level of the engine coolant in the reservoir.



- The engine coolant should be at the “cold fill level” as listed on the engine coolant reservoir.
- Refer to the scheduled maintenance guide for service interval schedules.
- Be sure to read and understand *Precautions when servicing your vehicle* in this chapter.

Maintenance

If the engine coolant has not been checked at the recommended interval, the engine coolant reservoir may become low or empty. If the reservoir is low or empty, add engine coolant to the reservoir. Refer to *Adding engine coolant* in this chapter.



Automotive fluids are not interchangeable; do not use engine coolant, antifreeze or windshield washer fluid outside of its specified function and vehicle location.

Adding engine coolant

Use only Ford Premium Engine Coolant E2FZ-19549-AA (in Canada, Motorcraft CXC-8-B) or a premium engine coolant that meets Ford specification ESE-M97B44-A.

- **DO NOT USE Ford Extended Life Engine Coolant F6AZ-19544-AA (orange in color).**
- **DO NOT USE a DEX-COOL® engine coolant or an equivalent engine coolant that meets Ford specification WSS-M97B44-D.**
- **DO NOT USE alcohol or methanol antifreeze or any engine coolants mixed with alcohol or methanol antifreeze.**
- **DO NOT USE supplemental coolant additives in your vehicle. These additives may harm your engine's cooling system.**
- **DO NOT MIX recycled coolant and conventional coolant together in your vehicle. Mixing of engine coolants may harm your engine's cooling system.**
- **The use of an improper coolant may harm engine and cooling system components and may void the warranty of your vehicle's engine cooling system. If you are unsure which type of coolant your vehicle requires, contact your local dealer.**

Maintenance



To avoid scalding hot steam or coolant from being released from the engine cooling system, never remove the pressure relief cap from the engine coolant reservoir while the engine is running or hot. Failure to follow this warning may result in damage to the engine's cooling system and possible severe personal injury.



Do not put engine coolant in the windshield washer fluid reservoir. If engine coolant is sprayed onto the windshield, it could make it difficult to see through the windshield.

When the engine is cool, add a **50/50 mixture** of engine coolant and distilled water to the engine coolant reservoir, until the coolant is at the “cold fill level” or within the “cold fill range” as listed in the engine coolant reservoir (depending upon application).

- **NEVER increase the coolant concentration above 60%.**
- **NEVER decrease the coolant concentration below 40%.**
- **Engine coolant concentrations above 60% or below 40% will decrease the freeze protection characteristics of the engine coolant and may cause engine damage.**

Plain water may be added in an emergency, but you **must** replace it with a 50/50 mixture of engine coolant and distilled water as soon as possible.

Check the coolant level in the reservoir before you drive your vehicle the next few times (with the engine cool). If necessary, add a **50/50 mixture** of engine coolant and distilled water to the engine coolant reservoir until the coolant level is at the “cold fill level” or within the “cold fill range” as listed on the reservoir (depending upon application).

Maintenance

Have your dealer check the engine cooling system for leaks if you have to add more than 1.0 liter (1.0 quart) of engine coolant per month.



To avoid scalding hot steam or coolant from being released from the engine cooling system, never remove the pressure relief cap from the engine coolant reservoir while the engine is running or hot. Failure to follow this warning may result in damage to the engine's cooling system and possible severe personal injury.

If you must remove the pressure relief cap from the engine coolant reservoir, follow these steps to avoid personal injury:

1. Before you remove the cap, turn the engine off and let it cool.
2. When the engine is cool, wrap a thick cloth around the cap. Slowly turn cap counterclockwise until pressure begins to release.
3. Step back while the pressure releases.
4. When you are sure that all the pressure has been released, use the cloth to turn it counterclockwise and remove the cap.

USING THE RIGHT BULBS

Function	Trade Number
Park lamp, turn lamp, side marker (front)	3156K

A word about warranty coverage

A WORD ABOUT WARRANTY COVERAGE

The SVT Mustang Cobra carries the same warranty coverage as other Ford Mustang models. This information is covered in its entirety in the Ford Motor Company Warranty Guide.

The SVT Mustang Cobra or any SVT can be serviced under warranty at any Ford-Lincoln-Mercury dealer nationwide.

SVT does not recommend modifying or racing our vehicles, as they are designed and built to be driven as delivered from the factory. The Ford Motor Company Warranty Guide discusses the installation of aftermarket parts and their effect on warranty coverage as follows:

Repairs are not reimbursable under warranty when:

- “The repairs are required because of abuse, misuse, racing, fire, negligence, accident, modification or a natural disaster.”
- “The repairs are required due to installation of a non-Ford part.”