

2004 FORD SVT F-150 LIGHTNING





**PERFORMANCE INCREASED POWER, REFINED ROAD MANNERS, AND BALANCE AMONG ENGINE, EXCLUSIVITY LOW-VOLUME, LIMITED-PRODUCTION PRODUCTS AVAILABLE ONLY FROM SPECIALLY**

AN ENGINE THAT BREATHES DEEPLY DURING A RUSH TO THE REDLINE. A CHASSIS THAT BALANCES POISE WITH PREDICTABILITY.

**SUSPENSION AND BRAKING SYSTEMS. SUBSTANCE CHARACTER THAT IS BUILT IN, NOT ADDED ON. TRAINED DEALERS. VALUE A LOT OF PERFORMANCE AND DRIVING PLEASURE FOR THE MONEY.**

SVT COMBINES THESE VIRTUES WITH FINESSE, IN VEHICLES THAT DELIVER EXHILARATING DRIVING EXPERIENCES.



**LIGHTNING** is unexpected. A pickup with awesome performance capabilities.

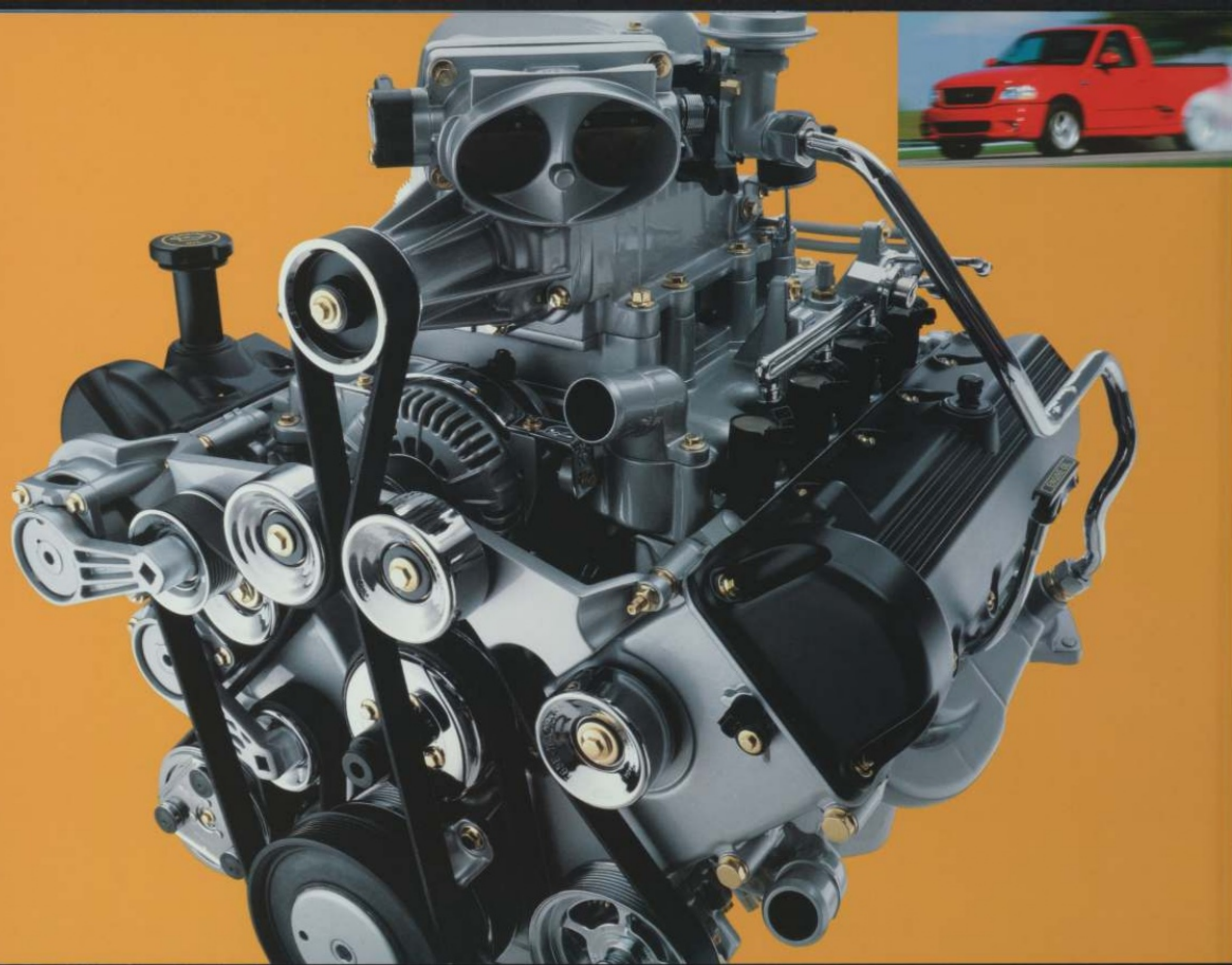
There have been more than a few surprised drivers when they discovered a truck that goes like a rocket and handles like a dream.

This second-generation SVT F-150 Lightning takes driving fun to new levels. With its supercharged engine, four-wheel disc brakes, short-bed, flareside box, twin exhaust tips tucked under the right-side rocker molding, and its lowered, SVT-tuned suspension, the SVT Lightning is an athletic package in looks and performance. It will haul 1,350 pounds, tow 5,000 pounds ... and leave some fairly hot performance cars in its dust.

Can't beat that for fun truckin'!

# UNEXPECTED





# STRONG POINTS



Supercharging increases the pressure inside an engine. That is why SVT specified special pistons for the Lightning. The piston connecting rod pins are sturdier as well.



SVT'S IDEA OF GREAT PERFORMANCE DRIVING INVOLVES A PLEASING BALANCE: AMPLE POWER COMBINED WITH OUTSTANDING CONTROL CAPABILITIES.

## POWER

The foundation for it all is a cast-iron engine block with deep skirts that provide extra rigidity. Heart of the moving parts is a forged-steel crankshaft, and forged SVT pistons that have all the strength necessary to withstand the added pressure from supercharging. The pistons' dished tops lower the engine's compression ratio to 8.4:1. Aluminum-alloy cylinder heads each contain a single, chain-driven camshaft that activates the valves through roller-finger followers.

Air enters the intake system through a large-capacity cleaner and duct, then through a 90mm mass-air sensor and a throttle body with dual 57 mm bores. The Eaton™ Corporation Generation IV supercharger is a belt-driven, Roots-type unit with a cast-aluminum case and precisely machined aluminum internal rotors. It compresses the air to eight psi, then a water-to-air intercooler removes excess heat for a denser, more powerful charge.

High-flow manifold runners and ports lead to the 44.5 mm intake valves, which swirl the mixture into the combustion chambers. Gases have a free-flow exit through the tuned, cast-iron manifolds and dual exhaust system.

Behind the engine, the SVT Lightning's powertrain includes a specially developed, 4R100 four-speed automatic transmission, a 4.5-inch aluminum drive shaft, and 3.73:1 ring-and-pinion gears in the 9.75-inch limited-slip differential.

High-capacity cooling for this powertrain is provided by the Ford Super Engine Cooling package, an engine oil cooler, and an Auxiliary Transmission Cooler package.

## HANDLING

The SVT F-150 Lightning has remarkably agile handling combined with a smooth, compliant ride. SVT suspension engineers achieved this performance *tour de force* with diligent design and tuning work.

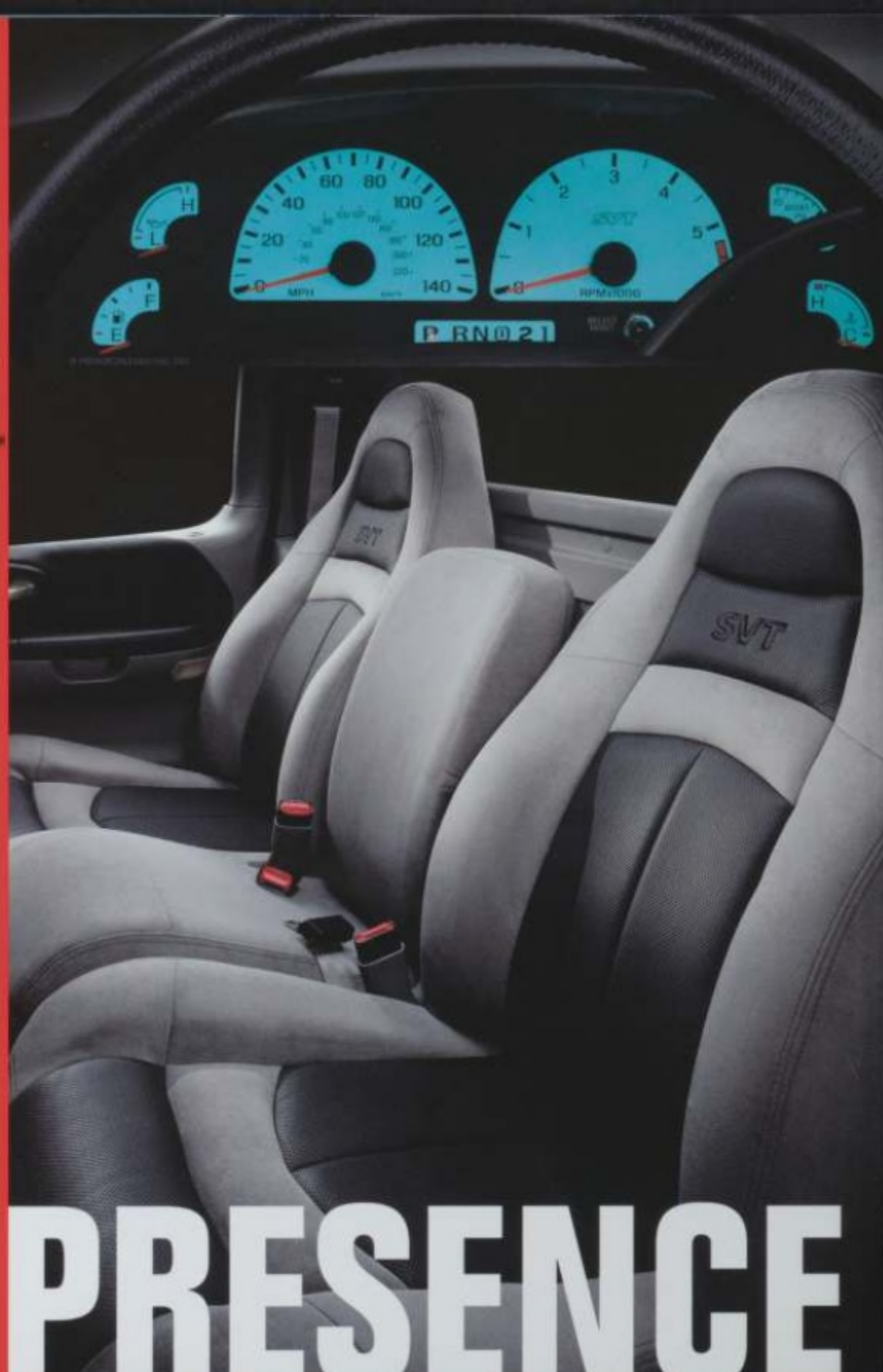
The upper and lower A-arm front suspension includes SVT coil springs that lower the front of the truck by a half inch., and a specially designed 31 mm solid stabilizer bar. The solid rear axle assembly features an SVT five-leaf spring system and an SVT 23 mm solid stabilizer bar. The springs are arched to lower the rear chassis by two inches.

Gas-charged Bilstein monotube shock absorbers at all four corners have damping characteristics designed for optimum wheel control, especially on the rebound stroke. The right-rear shock is staggered toward the front of the truck, which limits axle tramp under aggressive acceleration.

The front brakes feature twin-piston calipers and vented rotors that measure 12.1 inches in diameter. They are 4.0 mm thicker than those on the standard F-150. The 13.1-inch rear rotors also are vented, and have single-piston calipers. A four-wheel, three-sensor anti-lock system prevents wheel lockup under hard braking.

The 18-inch wheels are fitted with 295/45ZR-18 Goodyear™ Eagle F1-GS™ unidirectional tires. These tires were specially developed for the SVT Lightning, and have added sidewall strength for towing.





**THE SVT F-150 LIGHTNING LOOKS THE PART** — all about performance. The low, wide stance gives it away, accentuated by horizontal billet bars across the upper and lower front grilles. Cues that distinguish it from other F-150 models are subtle, and exquisitely integrated with the exterior design: clear, crystalline light lenses, the center high-mounted stop lamp consisting of 10 light-emitting diodes; twin three-inch, ceramic-coated exhaust pipe tips that nestle under a distinctive scallop in the right-side rocker panel; and 18 x 9.5-inch, five-spoke, cast-aluminum wheels with a bold, sharp-edged design.

For sporty looks, the F-150 standard-cab and flareside-bed configuration was ideal for the SVT Lightning. But this chassis also provided the shortest wheelbase and lightest weight — the right combination for optimum handling and acceleration.

Inside, the SVT Lightning is trimmed in Ebony textured leather and Medium Graphite cloth. The two primary 40/60 split seats have enhanced bolstering on their cushions and backs, and there is six-way power for the driver's seat. The back of the center seat flips down, forming a console with storage and two cupholders.

On the instrument panel, a supercharger boost indicator is included among the SVT-signature white-faced gauges. When the lights are switched on, these electroluminescent gauges change to a blue-green color with brilliant orange needles.

# DYNAMIC PRESENCE

## ENGINE

Configuration	Longitudinally mounted, single overhead cam, 90-degree Triton™ V8, supercharged/intercooled, cast iron block, aluminum-alloy heads, forged steel crankshaft
Bore x Stroke	90mm x 105.6mm
Displacement	5,400cc (330cid)
Compression ratio	8.4:1
Horsepower	380 hp @ 4,750 rpm
Torque	450 lb.-ft. @ 3,250 rpm
Specific output	70.2 horsepower per liter
Redline	5,250 rpm (fuel shut-off at 5,400 rpm)
Valvetrain	Single overhead camshafts, chain drive, roller finger followers with hydraulic lash adjustment, beehive valve springs, two valves per cylinder
Intake valves	1 per cylinder, 44.5mm head diameter
Exhaust valves	1 per cylinder, 36mm head diameter
Fuel system	Sequential electronic fuel injection, Premium calibration
Induction system	Pressure-charged, Eaton™ Corporation Generation IV Roots-type supercharger, water-to-air intercooler in vee
Supercharger	8.0 psi pressure
Throttle body	Dual-bore 57mm
Mass-air sensor	90mm diameter
Exhaust manifolds	Cast-iron tuned header-style manifold
Exhaust system	Tuned dual exhaust, ceramic-coated dual exhaust tips

## DRIVETRAIN

Transmission	Four-speed automatic (4R100)	
Drive shaft	4.5-in. aluminum	
Final drive	3.73:1	
Rear axle	9.75-inch ring gear with limited-slip differential	
Gear	Ratio	Maximum Speed In Gear
1st	2.71	43 mph (68 km/h)
2nd	1.53	76 mph (123 km/h)
3rd	1.00	119 mph (191 km/h)
4th	0.71	142 mph (228 km/h)
Reverse	2.176	

## SUSPENSION

Front	Short-and-long-arm type, coil springs, tubular gas-charged Bilstein shock absorbers, 31mm solid stabilizer bar
Rear	Solid axle, staggered gas-charged Bilstein™ shock absorbers, five-leaf springs, 23mm solid stabilizer bar

## STEERING

Type	Recirculating ball, power assist
Gear ratio	14.0:1
Turns, lock to lock	3.3
Turning diameter	44.3 ft.

## BRAKES

Front	12.1-in. (308mm) vented disc, twin-piston caliper
Rear	13.1-in. (334mm) vented disc, single-piston caliper
ABS	Four-wheel, three-sensor system

## WHEELS & TIRES

Wheels	18 x 9.5-in., five-spoke cast aluminum-alloy, painted surface with locking lug nuts
Tires	Goodyear™ Eagle F1-GS™, 295/45ZR-18, unidirectional tread, 235/70R-16 spare tire

## DIMENSIONS & CAPACITIES

Wheelbase	119.8 in. (3,043mm)
Length	208 in. (5,283mm)
Height	70.9 in. (1,801mm)
Width	79.1 in. (2,009mm)
Track, f/r	65.3 in./65.3 in. (1,661mm/1,661mm)
Head room	40.8 in. (1,036mm)
Leg room	40.9 in. (1,039mm)
Shoulder room	63.8 in. (1,621mm)
Hip room	61.0 in. (1,549mm)
Curb weight	4,700 lb. (2,132kg)
Fuel capacity	25 gal. (94.62 liters)
Weight dist., f/r	57%/43%
Payload	1,350 lb. (612kg)
Towing capacity	5,000 lb. (2,270kg)
EPA Fuel economy (est.)	13 mpg city, 17 mpg highway

## COLOR & TRIM

Exterior	Bright Red Clearcoat, Black Clearcoat, Sonic Blue Clearcoat, Dark Shadow Grey Clearcoat, Oxford White Clearcoat, Silver Metallic
Interior	Medium Graphite cloth with textured leather Ebony accents, leather door trim

## F-150 LIGHTNING INCLUDES:

- Driver and passenger airbags with passenger-side deactivation switch. Always wear your safety belt and deactivate passenger airbag when using a rear-facing child safety seat.
- SecurILock™ passive anti-theft system
- Anti-lock brake system (ABS)
- SVT suspension tuning, with lowered ride height
- 40/60 split seating. Six-way power for driver's seat, with cloth/leather trim and specially designed lateral bolstering
- Premium electronic AM/FM stereo cassette, in-dash 6-disc CD player
- Power Equipment Group: Dual electric remote control mirrors, power side windows, power door locks
- Leather-wrapped four-spoke tilt steering wheel
- Super Engine Cooling and Auxiliary Transmission Cooler packages
- Engine oil cooler
- Air conditioning (manual control)
- Electroluminescent SVT white-faced gauge pack, including supercharger boost gauge
- Dark tint sliding rear window
- Speed control
- Floor mats
- SVT and Lightning badging
- Remote keyless illuminated entry with touch key pad
- Towing Group, Class III
- SVT-unique headlight, taillight, side marker, and fog lights with clear, crystalline lenses

## F-150 LIGHTNING OPTIONS

- Torneau cover (soft)
- Ford bedliner

## FORD SVT DESIGNS AND DEVELOPS PERFORMANCE VEHICLES THAT CAN DELIVER YEARS OF DRIVING PLEASURE AND VALUE FOR THE AUTOMOTIVE ENTHUSIAST.

### OWNERSHIP EXPERIENCE

We've gone to great lengths to make the experience of driving a new SVT F-150 Lightning enjoyable. We've done the same for the ownership experience, too. We stand behind your truck with our New Vehicle Limited Warranty, and we look after your security with our Roadside Assistance Program. SVT owners also receive Premium Service at their dealer, which includes a loaner vehicle and complimentary wash and vacuum. Expect nothing less from a "customer-driven" company.

### ROADSIDE ASSISTANCE PROGRAM

Every new Ford includes the assurance of an emergency Roadside Assistance Program provided by Ford Auto Club, Inc., during the 3-year/36,000-mile limited 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, A TIRE CHANGE, A JUMP START, OR EVEN HELP WHEN YOU'RE LOCKED OUT OF YOUR VEHICLE.

Ask your Ford Dealer for complete details on the Ford Roadside Assistance Program and also for a copy of the New Vehicle Limited Warranty.

### BUMPER-TO-BUMPER COVERAGE

The 3-year/36,000-mile bumper-to-bumper coverage of the Ford New Vehicle Limited Warranty covers all vehicle parts including tires (except certain items as described in the Vehicle Warranty Guide) 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 or Red Carpet leasing, arrangements suited to your special needs can be made quickly and conveniently right at the dealership.

### FORD EXTENDED SERVICE PLAN

Optional Ford Extended Service Plans can cover major components on new Ford cars and light trucks after your bumper-to-bumper warranty coverage expires. Your dealer has the full details.

### DEALER-INSTALLED ACCESSORIES

The enjoyment of owning a new vehicle begins before you take delivery, when you're selecting colors and features.

Along with the items listed elsewhere in this 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.

Following publication of this catalog, certain changes in standard equipment, options, prices, and the like, or product delays, may have occurred which would not be included in these pages. Your Ford Dealer is the best source for up-to-date information. Ford Division reserves the right to change product specifications at any time without incurring obligation.

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

Horsepower and torque numbers are the mean of test results generated according to Society of Automotive Engineers Standard J1349.

Performance data are generated under closed-course conditions on a test track according to procedure R-403. Observed data are corrected to standard ambient conditions. Vehicle weight is corrected to production curb weight plus 300 pounds.

Many factors may affect vehicle performance.



**1993 SVT MUSTANG COBRA**  
235 horsepower 5.0-liter OHV V8  
T3 five-speed manual transmission  
Four-wheel disc brakes  
Production: 4,993 units

**1993 SVT MUSTANG COBRA R**  
235 horsepower 5.0-liter OHV V8  
T3 five-speed manual transmission  
Lightweight street-legal racing model  
Production: 107 units

**1993-1995 SVT F-150 LIGHTNING**  
240 horsepower 5.8-liter OHV V8  
E4OD four-speed automatic transmission  
Tow rating: 5,000 lbs.; payload: 745 lbs.  
Production: 11,563 units

**1994-1995 SVT MUSTANG COBRA**  
240 horsepower 5.0-liter OHV V8  
T5 five-speed manual transmission  
13-in. front discs, PBR calipers,  
11.65-in. rears  
Production: 11,017 units

**1995 SVT MUSTANG COBRA R**  
240 horsepower 5.8-liter OHV V8  
Tremec five-speed manual transmission  
Lightweight street-legal racing model  
Production: 250 units

**1996-1998 SVT MUSTANG COBRA**  
305 horsepower 4.6-liter DOHC V8  
T45 five-speed manual transmission  
13-in. front discs, PBR calipers,  
11.65-in. rears  
Production: 28,709 units

**1998-2000 SVT CONTOUR**  
195 hp (198), 200 hp (199-00) High  
Output 2.3L Duratec V6  
MTX 75 five-speed manual transaxle  
Front-drive, five-passenger sports sedan  
Production: 11,445 units

**1999/2001 SVT MUSTANG COBRA**  
320 horsepower 4.6-liter DOHC V8  
Independent rear suspension and  
Traction control introduced  
Production: 8,095 units

**2000 SVT MUSTANG COBRA R**  
385 horsepower 5.4-liter DOHC V8  
Tremec six-speed manual transmission  
Lightweight street-legal racing model  
Production: 300 units

**1999-2003 SVT F-150 LIGHTNING**  
360 hp (199-00) 380 hp (01-03)  
supercharged 5.4-liter Triton™ V8  
Four-wheel disc brakes introduced  
Production: '99-02 = 20,073 units,  
03 = 4,308 units (est.)

**2002-2003 SVT FOCUS**  
170 horsepower DOHC I-4 engine  
Dual-stage intake manifold  
Twin-shaft 6-speed transaxle  
Production: '02 = 4,788  
'03 = 6,159 units (est.)

**2003 SVT MUSTANG COBRA**  
390 horsepower supercharged  
4.4-liter DOHC V8  
Traction control standard  
Production: 13,493 units (est.)

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Chances are, if you currently own an SVT vehicle, you're already quite knowledgeable about automobiles. For you, driving is more than just getting from point A to B; it is something that provides great pleasure. Your vehicle is always clean and well maintained, because you take pride in how it looks and performs. At SVT, we know how you feel — that's why we formed the Special Vehicle Team Owners' Association (SVTOA), a club designed specifically for SVT owners.

**"DRIVE SAFE AND HAVE FUN" IS THE MISSION STATEMENT OF SVTOA,  
AND THE ASSOCIATION FOCUSES PRIMARILY ON THREE THINGS:**

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Providing fun opportunities to get out and drive (road trips, cruise nights, track days, etc.)  
with other SVT owners

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Promoting learning and education about automobiles and good driving

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Making new friends and sharing common experiences with other like-minded people

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If you currently own an SVT vehicle then you're already a member of an exclusive club — you are an enthusiast who wants a vehicle with performance, substance, exclusivity and value. And, for exactly those reasons, we've developed the SVTOA — to share our common obsession with SVT vehicles and maximize the fun we can have with them.

**SVTOA EXCLUSIVE MEMBER BENEFITS INCLUDE:**

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SVTOA member-only web site

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Member subscription to the SVT Enthusiast magazine (6 issues per year)

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Invitations to SVTOA regional and national events

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SVTOA membership directory

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Assistance in planning local chapter-organized events

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Vehicle registry

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Discounts from SVTOA affiliated companies

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Team Ford Racing discount

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Access to local SVTOA chapters

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Every new SVT vehicle buyer or lessee automatically receives a complimentary one-year subscription to SVTOA. For more info, contact SVTOA National HQ at (866) 377-8862 or visit their website at [www.svtoa.com](http://www.svtoa.com).



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**SVT**