

SVT F-150 LIGHTNING





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**PERFORMANCE**

Increased power, supple road manners, and balance among engine, suspension and braking systems.



**SUBSTANCE**

Character that is built in, not added on.



**EXCLUSIVITY**

Low-volume, limited-production products available only from specially trained dealers.



**VALUE**

A lot of performance and driving pleasure for the money.

*Lightning ... awesome power*

*You sense this is different*

*Open the throttle, and you know*

*Feel good ... smile*

*It's that kind of kick*

THE ULTIMATE EXPRESSION OF A HIGH-PERFORMANCE SPORT TRUCK.

*An engine that breathes deeply during a rush to the redline. A chassis that balances poise with predictability. SVT combines these virtues with finesse, in vehicles that deliver exhilarating driving experiences.*





# DRIVING



THE DEEP G-R-R-R-R-OWL OVERPOWERS YOU AT FIRST; it's the sound of something brutishly strong, uniquely different and immensely capable. You tap your right foot and the growl becomes a mighty roar. You select drive, dare to press harder on the gas pedal, and the vehicle thunders away like a champion quarter

horse charging from the starting line. THE ROAD RUSHES UP and you can't help but smile broadly. Under you, enormous forces are at work, literally hundreds of horsepower ready to serve you well. This is like no other driving experience you've ever had. This is different because it is the 2001 SVT F-150 Lightning you are piloting — the ultimate sport truck that balances strength, poise and predictability with style and practicality. BENEATH THE HOOD of your new Lightning beats a supercharged, single-overhead-cam 5.4-liter Triton™ V8 engine, which is about to propel



you into the world of high-performance motoring. Producing an amazing 380 horsepower and 450 foot-pounds of torque, this super truck is equally at home on the racetrack, a city boulevard or a twisting mountain road. YOU SQUEEZE THE GAS PEDAL AGAIN and great volumes of air are gulped into the engine's intake system and compressed by the supercharger. The result is a mighty burst of power, which sets your grin even wider as you surge ahead. LIGHTNING'S POWERTRAIN is coupled with a specially developed four-speed automatic



transmission, providing you a series of smooth, seamless gear changes. No need to jump on the accelerator. Just feed the power in and feel the big pickup respond with great heart. Straightaways are gobbled up, hills climbed with barely an effort. This mighty machine takes no prisoners. AS POTENT AS LIGHTNING IS, there's more to it than sheer brawn and brute power. Lightning is athletic and agile, with surprisingly capable handling and braking.



UNDER HARD ACCELERATION, your Lightning displays incredible stability, while monotube Bilstein shock absorbers at all four corners refine your steering and ride. Through a series of sweeping turns, you urge the Lightning on; feel the tenacious, uncompromising grip of its big, sticky Goodyear™ Eagle F1-GS™ unidirectional tires. WITH A LOW, WIDE STANCE, your Lightning turns heads as you accelerate down the road. Tough and dependable, Lightning's flareside-bed configuration provides a dynamic, aggressive look, which is accentuated by

new light design front and rear. FROM THE CONTOURED DRIVER'S SEAT, your view is unobstructed and spectacular. The cockpit environment features a combination of rich leather and Graphite cloth trim, making Lightning a stylish and powerful automotive statement. Signature SVT white gauges, which include a supercharger boost gauge, change to a bluish-green at night with brilliant orange needles. BUT IT IS ON THE ROAD that you appreciate your Lightning most. Powerful and willing, this sport truck for the ages is a dynamic performer. FRILLS? Who needs them? The SVT Lightning strikes best when you open up the throttle.



# EXPERIENCE



## POWER AWESOME FORWARD THRUST

SAVOR THE MOMENT ... FORCES UNLEASHED.

GREAT VOLUMES OF AIR ... GULPED IN, SQUEEZED DOWN, BLASTED OUT

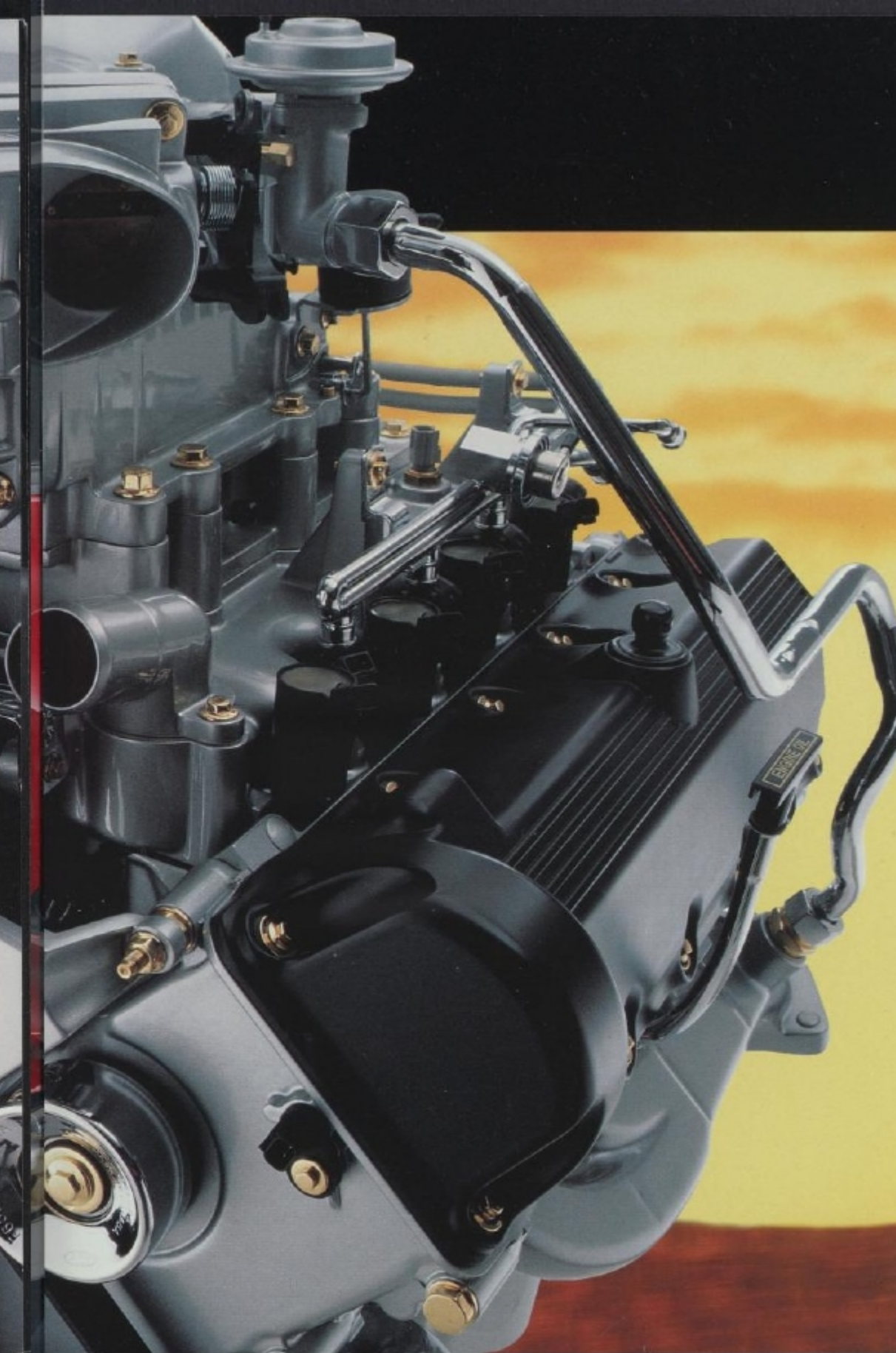
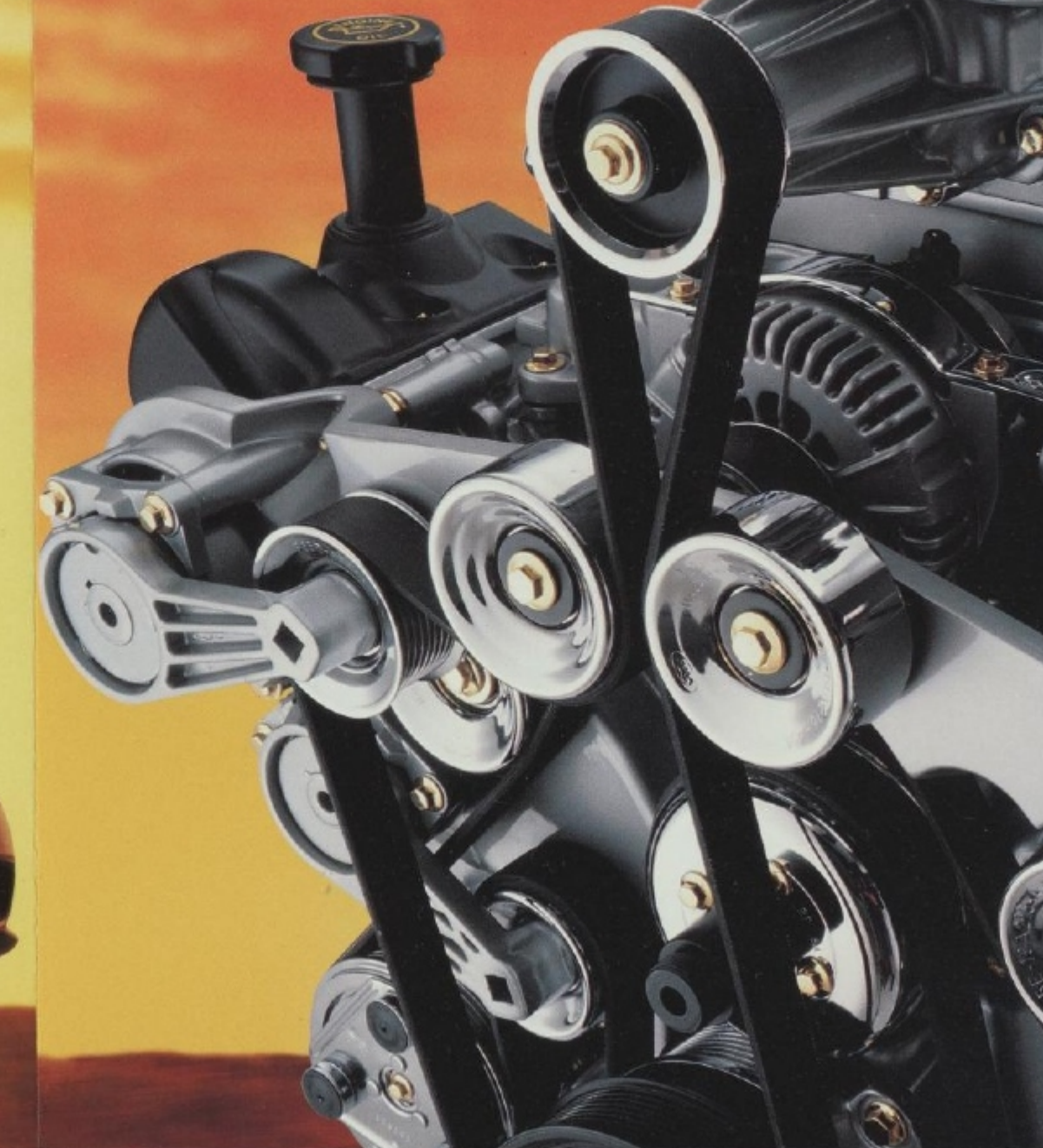
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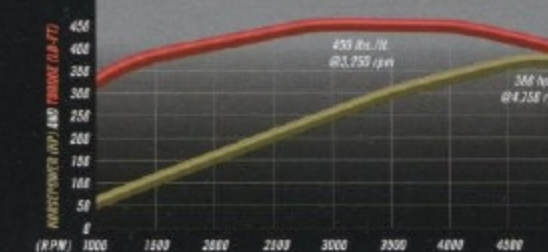
Supercharging increases the pressure inside an engine. That's why SVT specified special pistons for the Lightning. The piston connecting rod pins have been made sturdier as well. The rods have the most robust big ends of any connecting rod used in a Ford modular V8.



The 5.4-liter Triton™ V8 (that is used in other models of the F-150) produces more power than the first-generation F-150 Lightning. The second-generation Lightning uses a supercharger to up the ante even further. Look for this special display version of the Lightning V8 at the Ford exhibit at major auto shows.



The SVT F-150 Lightning can both tow and go, thanks to the power provided by its Eaton™ Corporation Generation IV supercharger. A water-to-air intercooler sits below the blower. The Roots-type supercharger has a cast-aluminum housing, precisely machined aluminum internal rotors and a dedicated drive belt. The Lightning is rated at 380 horsepower, 450 foot-pounds of torque, and has a 5,000-pound towing capacity.



**AWESOME** is barely adequate to describe the feel of an SVT F-150 Lightning under hard acceleration. Invariably, it generates smiles on the faces of seasoned race drivers after a few quick laps on a track. And it all begins with Lightning's supercharged, single-overhead-cam 5.4-liter Triton™ V8 engine, which develops 380 hp at 4,750 rpm and 450 foot-pounds of torque at 3,250 rpm.

### ARCHITECTURE

To produce massive power and torque while maintaining durability, SVT powertrain engineers chose the most robust components. The SVT Lightning's cast-iron block is inherently very rigid, thanks to deep skirts that extend below the centerline of its forged-steel crankshaft. Forging is done in America by Krupp Gerlach Company, employing the same advanced methods used to create the crankshaft for the SVT Mustang Cobra.

On top of the cylinder banks, aluminum-alloy heads contain chain-driven, single overhead camshafts that activate roller-finger followers with hydraulic lash adjustment. The SVT forged pistons are specially designed with dished tops to lower the compression ratio to 8.4:1. These robust pistons withstand the added combustion pressure generated by supercharging.

### SUPERCHARGED BREATHING

Air enters the intake system through a special, large-capacity air cleaner and intake duct, which feed a 90mm mass-air sensor and a dual-bore 57mm throttle body.

The air is compressed by an Eaton™ Corporation Generation IV supercharger fitted on top of the intake manifold. This Roots-type supercharger has a cast-

aluminum case, precisely machined aluminum internal rotors and a dedicated drive belt. The supercharger compresses the air to 8.0 psi; then, to remove heat gained during compression, the air passes through a water-to-air intercooler in the engine's vee. Cooling the air creates a denser, more powerful charge. The supercharger and intercooler are the components most responsible for generating the exceptional horsepower and torque of the SVT Lightning.

Downstream from the intercooler, the air flows through specially tuned, high-flow intake manifold runners and ports to the 44.5mm intake valves. The port design swirls the mixture into the eight combustion chambers. On the exhaust stroke, gases flow with little restriction through tuned, cast-iron manifolds and a dual exhaust system.

### COOLING

The Ford Super Engine Cooling package, together with an engine oil cooler, provide additional cooling capacity for this high-performance engine, no matter whether the extra demands are for spirited driving or towing.

### DRIVELINE

The SVT Lightning's specially developed, 4R100 four-speed automatic transmission contains numerous components first developed for the commercial transmission used with Ford's Power Stroke™ diesel engine. An Auxiliary Transmission Cooler package helps maintain the condition of the transmission fluid. Behind the transmission, new driveline components for 2001 include a 4.5-inch aluminum drive shaft, and a 3.73:1 ratio ring and pinion gear set in the 9.75-inch limited-slip differential.







A FORCE OF NATURE. IT MOVES.



**DESIGN** ONE LOOK. TOUGH.

IT HAS A CERTAIN PRESENCE ... **ATTITUDE.**

**GOT IT.** EVERY ANGLE. CHECK THE DETAILS.

FRILLS DON'T CUT IT ... JUST **PURPOSE.**

FLAT GET IT ON.



**THE SVT F-150 LIGHTNING'S** regular-cab and flareside-bed configuration provides more than a dynamic visual presence. Among the F-Series chassis available, this one has the shortest wheelbase and lightest weight, which combine to provide optimum handling and acceleration.

A range of exterior design elements distinguish the Lightning from other F-150 models. The upper and lower front grilles are a horizontal billet bar design, which accentuates the vehicle's low, wide stance. New designs for all lights also differentiate the 2001 Lightning from other models and its predecessors. Headlights, taillights, side-marker lights, and the Lightning's signature round fog lights all have clear, crystalline lenses. Each of the lens surfaces is marked with very faint horizontal lines, which draw the eye to the light's exterior plane rather than its reflector and bulb.

The cab's center high-mounted stop lamp also is unique to Lightning. It consists of 10 light-emitting diodes, which are flanked by two clear-lens cargo lights.

The dual exhaust system's twin 3-inch pipe tips are ceramic-coated and tuck under a distinctive scallop in the rocker panel just ahead of the right-rear wheel.

The 2001 SVT Lightning's five-spoke alloy wheels feature a bold, sharp-edged design that adds another point of distinction to the vehicle.

#### INTERIOR FEATURES

A combination of Ebony textured leather and Medium Graphite cloth trim the SVT Lightning interior. The 40/60 split bench seat features enhanced lateral bolstering on the bottoms and backs of the two primary seats, and six-way power for the driver's seat. A center jump seat provides room for a third passenger.

The white-faced gauges, an SVT design signature, are electroluminescent, and at night change to a blue-green color with brilliant orange needles. The cluster includes a supercharger boost gauge.





DRIVING DYNAMICS COMMAND. CONTROL.

TURN IT LOOSE ... FEEL IT WORK. HARD-MUSCLED, ATHLETIC RESPONSE.

POWER, GRIP, FEEDBACK ... PURE DRIVING PLEASURE.

A RARE COMBINATION: AGILITY, UTILITY, VERSATILITY.



The Lightning's cast-aluminum-alloy, five-spoke wheels measure 18 x 9.5 inches. They are fitted with high-performance, uni-directional tires that measure a gargantuan 295/45ZR-18.



**SVT SUSPENSION ENGINEERS** have developed a system for this 4,600-pound, high-performance pickup that lowers it a half-inch in front, two inches at the rear, and gives it exceptionally agile handling characteristics. It also will launch with aggressive assurance at a drag strip, then turn around and carry an 800-pound payload, tow a 5,000-pound trailer, and ride with remarkable aplomb.

**SUSPENSION, STEERING AND BRAKES**  
The front suspension is an upper and lower A-arm design, with SVT coil springs, gas-charged shock absorbers, and a specially designed 31mm solid stabilizer bar. A power-assisted recirculating ball steering system communicates clearly and precisely with the driver about adhesion and surface conditions.

The Lightning has a 9.75-inch solid rear axle controlled by gas-charged shock absorbers, an SVT five-leaf spring system, and an SVT 23mm solid stabilizer bar.

The right-rear shock is staggered toward the front of the vehicle, which limits axle tramp under aggressive acceleration.

The 2001 SVT Lightning is equipped with monotube Bilstein shock absorbers at all four corners. These shocks have damping characteristics that improve wheel control, especially on the rebound stroke, and generally enhance the feel of the Lightning's ride.

The four-wheel disc brake system is derived from the much larger F-250 Super Duty truck. Compared with the front rotors of the standard F-150, SVT Lightning front rotors are 4.0mm thicker. They measure 12.1 inches and are clamped with twin-piston calipers. At the rear, the rotors measure 13.1 inches. The brakes are monitored by a four-wheel ABS system.

**WHEELS AND TIRES**

The cast aluminum-alloy, five-spoke wheels measure 18 x 9.5 inches, and are fitted with 295/45ZR-18 Goodyear™ Eagle F1-GS™ unidirectional tires. These tires were specially developed for the SVT Lightning, using much of the same wet/dry high-performance technology introduced with the F1-GS tires on the 1998 SVT Contour. The Lightning tires have added sidewall strength for towing, and for 2001 they incorporate the next generation F1-GS rubber compound.



## TECHNICAL DATA

### ESSENTIAL FACTS AND NUMBERS

HIDDEN WITHIN, THEY EXIST

AS FINE POINTS OF PERFORMANCE

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	5,410cc (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 occurs 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, 35mm 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	50mm 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
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	4,670 lb. (2,120 kg)
Fuel capacity	25 gal. (94.62 liters)
Weight dist., f/r	57%/43%
Payload	800 lb. (363kg)
Towing capacity	5,000 lb. (2,270kg)

PERFORMANCE	
0-60 mph	5.8 seconds
Quarter-mile	13.9 seconds @ 100 mph
0-100 kph	5.9 seconds
0-100-0 mph	22.0 seconds
Top speed	142 mph (228 km/h)
Braking, 60-0 mph	136 ft.
Braking, 80-0 mph	238 ft.
80-ft. slalom	63.6 mph
100-ft. skidpad	0.85g
Fuel economy (estimated)	13 mpg city, 17 mpg highway

COLOR & TRIM	
Exterior	Bright Red Clearcoat, Black Clearcoat, Oxford White Clearcoat, Silver Clearcoat Metallic
Interior	Medium Graphite cloth with textured leather Ebony accents, leather door trim

#### F-150 LIGHTNING INCLUDES

- Supplemental restraint system: 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 bench seating. Six-way power for driver's seat, with cloth/leather trim and specially designed lateral bolstering
- Premium electronic AM/FM stereo cassette, remote 6-disc CD changer
- 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
- Towing Group, Class III

- Available Option**
- Tonneau cover (soft)



#### 1983 SVT MUSTANG COBRA

235 horsepower 5.0-liter ohv V8  
T5 five-speed manual transmission  
Four-wheel disc brakes  
Production: 4,993 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



#### 1993 SVT MUSTANG COBRA R

235 horsepower 5.0-liter ohv V8  
T5 five-speed manual transmission  
Lightweight street-legal racing model  
Production: 107 units



#### 1998-2000 SVT CONTOUR

195 hp ('98), 200 hp ('99-'00) High Output 2.5 liter  
Duratec V6 MTX-75 five-speed manual transaxle  
Front-drive, five-passenger sports sedan  
Production: 11,445 units



#### 1993-1995 SVT F-150 LIGHTNING

240 horsepower 5.8-liter ohv V8  
E40D four-speed automatic transmission  
Tow rating: 5,000 lbs.; payload: 745 lbs.  
Production: 11,563 units



#### 1999 SVT MUSTANG COBRA

320 horsepower 4.6-liter dohc V8  
Independent rear suspension introduced  
Traction control introduced  
Production: 8,095 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



#### 1999-2000 SVT F-150 LIGHTNING

360 horsepower supercharged 5.4-liter Triton™ V8  
Four-wheel disc brakes introduced  
5,000-pound tow rating  
Production: 8,966 units



#### 1995 SVT MUSTANG COBRA R

300 horsepower 5.8-liter ohv V8  
Tremec five-speed manual transmission  
Lightweight street-legal racing model  
Production: 250 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

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

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.

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



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#### 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 (except tires, and certain other 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.



### THE ULTIMATE GOAL

At the heart of the SVT F-150 Lightning and the SVT philosophy is a deep commitment to skillful and enthusiastic driving. Everyone at SVT — engineers, designers, product planners, and marketers — is an enthusiast, someone who loves to drive quickly and well. They are fluent in the language of performance driving. To help SVT owners speak that language more fluently, SVT offers new SVT owners a discount at the Bob Bondurant School of High-Performance Driving, where skills can be honed that can improve driving in all conditions, from performance driving to the everyday commute. The SVT Cobra has served as the principal student car at the Bondurant School since 1997 for advanced courses. Great test results published by a magazine are not enough. It is equally important how a performance vehicle achieves those numbers, and how it engages its driver. The intelligent performance vehicle entertains with brilliant conversation. Excellent communication lies at the heart of the SVT performance philosophy. In the design of our vehicles and the performance of our dealers, our ultimate goal is to provide the enthusiast many years of enjoyable performance driving.



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