



Getting a corner on performance has been a Ford tradition for 65 years. Henry Ford, himself, started it back in 1904 when he built a bodyless 4-cylinder brute of a car called Old 999. Like other pioneer motormakers. Mr. Ford knew that nothing proves the ability-and durability-of a car like winning races. So he drove Old 999 flat out on the ice of a lake near Detroit and set a new record of 91.37 mph for the flying mile. That was the last race Mr. Ford ever drove, but it was only the beginning of his interest in performance cars because he realized that testing

In 1907 Henry Ford decided to concentrate on producing a sturdy, lightweight, inexpensive automobile. Vanadium steel wasn't cheap, but it was one of the strongest metals available, so he used it for the critical parts of his new Model T.

in open competition would hasten the de-

velopment of better street automobiles.

One of the first big tests of the new Model T's go-anywhere durability was the 4106-mile New York-to-Seattle auto race of 1909. A stripped-down Model T, running over the rutted dirt roads of the day (and sometimes on no roads at all), won the race in 22 days and 55 minutes!

Model T's with homemade "torpedo" bodies raced on short dirt tracks before World War I. But it wasn't until after the war that an overhead valve cylinder head called the Frontenac uncorked the potential power of the T's four sturdy cylinders. With double the original horsepower, more than 10,000 "Fronty Fords" put a

healthy roar of their own into the Roaring Lorenzen won more Major NASCAR events than amyone else from 1944 to 1967.

Twenties, winning hundreds of races all over the country.

In 1923 came the high point-a Frontyequipped T racer finished 5th in the Indianapolis 500!

Ford's greatly improved Model A got its share of racing trophies, too, thanks again to a sturdy "Four" that responded to race tuning. But the A's turn in the winner's circle was a short one. By 1932 Henry Ford and his foundrymen had done what had always been thought impossible produced a compact, cast-in-one-piece, inexpensive side-valve V-8. In less than

> three years Ford boosted the V-8 to 85 horsepower, and Ford roadsters-minus mufflers and fenders - were out on the oval tracks taking the checker.

> The V-8 broke into the big time with a major

win in the Elgin (III.) National Road Race of 1933, and from then on Ford was the car to beat in U.S. road racing. In 1937, Ford introduced a smaller, lighter, 60horsepower version of the Flathead V-8 that became the mainstay of dirt track midget racing. In the mid-Thirties a new kind of per-

formance competition grew upmostly as a result of the Ford V-8. It was called not rodding and began in Southern California, where a whole generation of homegrown mechanical

In 1962, a Texan named Shelly stuffed a Michigan V-8 into a British sports car and WHAM— the Cobra was born!

geniuses hopped up their stripped-down Fords in their back yards and raced them on the dry flat lake beds at Muroc and El Mirage. The Flathead V-8 was so sturdy and so basically sound that it could take modifications that doubled and even tripled the original horsepower! Even after World War II it was still going strong in the first of the modern-day hot rods-converted fighter plane belly tanks.

When the California dry lakes were taken over by the Air Force, the hot rodders had to give up their long high-speed runs. They turned to a new kind of performance contest-the 1/4-mile acceleration run. So drag strips were born, and the Flathead V-8 stood up to the tremendous strains of full-bore acceleration. One of those early hot rodders, Wally Parks, organized the drag strips into the National Hot Rod Association.

At about the same time as the West Coast rodders were organizing, a lanky, energetic garage mechanic from Daytona, Florida, named Bill France, was signing up the "good 'ole boys" from Georgia. Virginia and the Carolinas. He made an organized sport out of the stock car "wars" called the National Association of Stock Car Auto Racing.

> Ford Mach II taught some "new

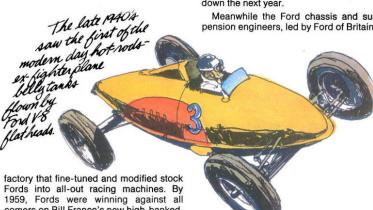
math" in France in 1966. V-8 plus 24 hours equals 1 st, 2nd, 3nd at Le Mans. through dry grass.

By 1965, the Cobra had won the manufacturer's sports car championship for Ford and finished 7th at Le Mans.

But the Cobra's hotted-up 289 V-8 did something even more important-aroused the enthusiasm of dozens of the Company's performance-minded engineers.

The powerplant men made an aluminum version of the 289 engine and topped it off with a jewel-like set of overhead cam cylinder heads. With the happy cooperation of Colin Chapman, a dapper Briton, who built the Lotus sports cars, the 4-cam Ford was fitted to a Grand Prix racing Lotus. The Ford-Lotus finished 2nd in the Indy 500 in 1964 and won hands down the next year.

Meanwhile the Ford chassis and suspension engineers, led by Ford of Britain's



Ford's had a corner on performance...

Since your grandfather learned to drive!

Fords into all-out racing machines. By 1959, Fords were winning against all comers on Bill France's new high-banked, 200-mph oval at Daytona.

After the end of World War II, auto-

motive engine design got off dead-center

and by the mid-1950's a new crop of

overhead valve V-8's started to race. But

thanks in part to old hot-rodding friends

from the Flathead days like Bill Stroppe,

Fran Hernandez, Chuck Daigh and John

Holman, Ford engineering kept up with

Holman joined forces with a race-wise

driver named Ralph Moody and set up a

or ahead of the competition.

Ford and Fearless Freddie"

In the early '60s Fords were going great in stock car racing and at the national drag meets, but were completely outside of the big show at Indianapolis and saw no action at all in road racing.

But in 1962 an unusual man discovered a new and different engine and got a great idea.

The man was a tall, colorful Texan sports car racer named Carroll Shelby. The engine was Ford's new 260-cubicinch overhead valve V-8, first of a new generation of precision, lightweight V-8's.

Shelby slipped Ford's hot little V-8 into the AC, a sleek, roadworthy open twoseater from England and called it the Cobra. The rest is history. The Cobras swept through sports car racing like a fire Roy Lunn, with Phil Remington as "staff hot rodder." delved into the mysterious mathematical world of tire adhesion, aerodynamics and brake heat dissipation. They produced a series of sleek, purposeful cars.the GT 40 J-Car. Mark II and Mark IV. Result, Ford Power won at Le Mans in 1966, '67, '68 and '69!

Having cornered performance competition all over the world, from Le Mans to Pikes Peak, from Atlanta to Riverside, Ford's engineering teams continue to make good use of what they learn at the tracks. Their latest achievements you'll find in your Ford Dealer's Performance Corner for 1970. Why not turn the page and take a look at what they've put together?

Note: The Ford Motor Company gratefully acknowledges the contributions to the development of American highperformance automobiles made by those whose names are included in this brief history. Their appearance here is in no way intended to imply an endorsement of any Ford Motor Company product.



PRE-

STACED

The '70 Cobra's for real. A new top gun car that puts a lot of muscle in your driveway at a reasonable price. Take this one hunting for trophies at your local strip. We bred it to win. You get big inch power going in. The standard engine is a 429 CID 360-hp 4V V-8. Want to chop ET's further? Next engine is a 429 CID, 370-hp Cobra 4V option. Playing for keeps? Get the 429 Cobra Jet with ram air—when you wood it, a trap door opens to dump 700 cubic feet of cold air into the 4-barrel and you blow off the whole class.

If you hanker to be King of the Mountain and bring home the biggest trophy of the meet, there's just one way to go—get your Cobra with the new 429 Drag Pack. You get Traction-Lok or No-Spin differentials with 3.91 or 4.30 to 1 ratios respectively, engine

oil cooler, impact extruded aluminum pistons, 4-bolt center mains. Boss 429 solid lifter cam with either Cobra or Cobra Jet Ram-Air V-8's. You're geared for go with Ford's beefy, fully synchronized 4-speed with knife-quick Hurst Shifter®, or you can have SelectShift automatic that lets you hold 1st and 2nd manually until the revs are right.

But if you take trips longer than 1320 feet, fear not, Cobra's set up to hang tight like a road car should. After all, you don't send out National Championship stock car winners year after year without learning how to build a car that handles as well as it goes. Competition suspension's the name of our game—and that's another Cobra standard! Ultra high-rate springs, heavy-duty shocks, bigger stabilizer bar and staggered rear



shocks to soak up takeoff torque on all 4-speed cars. We nail it all down to the pavement with 7-in. rim wheels and F70-14 wide belted tires with raised white letters.

That's the picture, Cobra—one of the most powerful reasons for Torino's "Car of the Year" Award.

Cobra Power Teams

ENGINE	COMPRESSION RATIO	HORSEPOWER RPM	480 lbs-ft	
429 4V V-8	10.5 to 1	360 hp @ 4600 rpm		
429 4V Cobra V-8	11.3 to 1	370 hp*@ 5400 rpm		
429 4V Cobra Jet Ram-Air V-8	11.3 to 1	370 hp* @ 5400 rpm	450 lbs-ft	

4-speed fully synchronized manual transmission standard, SelectShift automatic optional.

*375 hp @ 5600 rpm with Drag Pack option.

Engines: Standard—429 CID 4V V-8. Optional—429 CID 4V Cobra V-8; 429 CID 4V Cobra Jet Ram-Air V-8 (see page 16 for detailed engine specifications). **Transmissions:** Standard—4-speed close ratio manual with Hurst Shifter®, ratios: 2.32:1, 1.69:1, 1.29:1, 1.00:1. Optional—SelectShift Cruise-O-Matic (floor shift with optional bucket seats), ratios: 2.46:1, 1.46:1, 1.00:1.

Rear Axie: Ratios: 4-speed manual, 3.25, 3.0, 3.50. SelectShift Cruise-O-Matic, 3.0, 3.25, 3.50. Traction-Lok, 3.0, 3.25, 3.50, 3.91; No-Spin 4.30. (Note: 3.91 and 4.30 axles with Drag Pack only.)

Brakes: 10 in. drums, lining area 173.3 sq. in. Optional—power front disc brakes. Wheelbase 117". Overall length, 206.2". Track, front 60.5", rear 60.0". Wheels: 14", 7" rim, F70-14 wide-tread belted blackwall tires with raised white letters. Suspension: Competition type, staggered rear shocks with 4-speed manual transmission models.

Details: Unique bodyside and rear Cobra decals, black wheels with hub caps, black painted base grille, matte black hood with lock pins, wheel lip molding.

Colors: Grabber Green plus 15 other colors.

Options: 8000 RPM Tachometer, Drag Pack including engine oil cooler, forged aluminum pistons, and 4-bolt center main bearing caps. Plus selected comfort and convenience options.

the new shape of winning muscle on America's drag strips this year.

Dany





gest problem-trying not to spend 24 hours a day driving it!

8

manual steering, and the Boss stops right now thanks to

Mach 1-pronounced Mach Won!



Power is what you get with any of Mach 1's great V-8'sa 351 2V is standard. Your first option is the brand-new freebreathing 351 4V Cleveland engine with canted valve heads and 300 horsepower that turns on right now. From there on you option the 428 Cobra V-8 and its partner in power, the Cobra Jet Ram-Air. That's the one with the functional "Shaker" that pops up through the hood to ram cool air.

Winning is a habit with Mach 1. The latest triumph is the top rally award a car can win on this continent - the SCCA Manufacturer's Rally Championship for 1969. To win it you've got to run over 8,000 miles of rallies on all kinds of roads in all kinds of weather and finish every stage with split-second precision.

> For '70 the Mach 1 looks as good as it goes. There's a unique black grille with special sports lamps, matte black hood and wide extruded aluminum rocker panels, high-back buckets in knitted vinyl, full instrumentation, woodtoned applique on panel and console, electric clock, and more. Get yourself a Mach 1 and really "shake up" the troops.

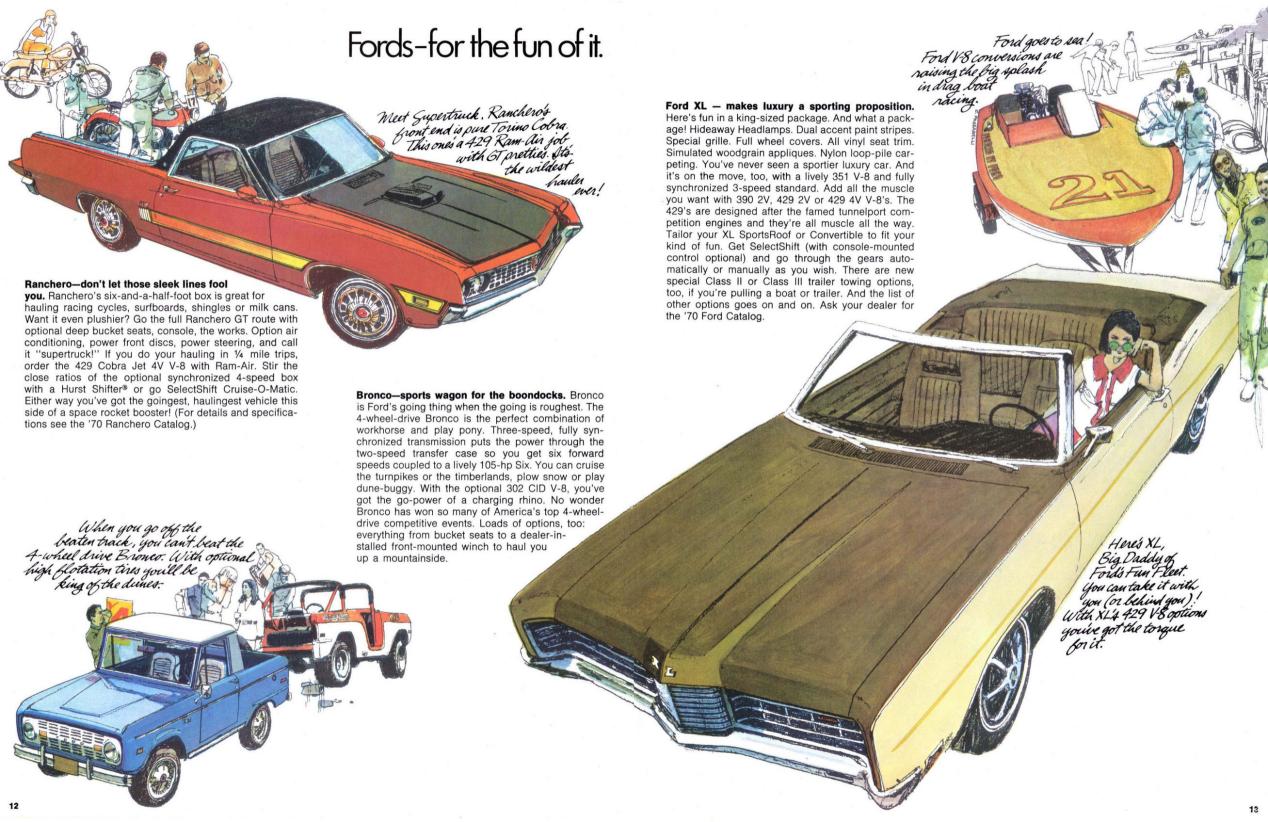


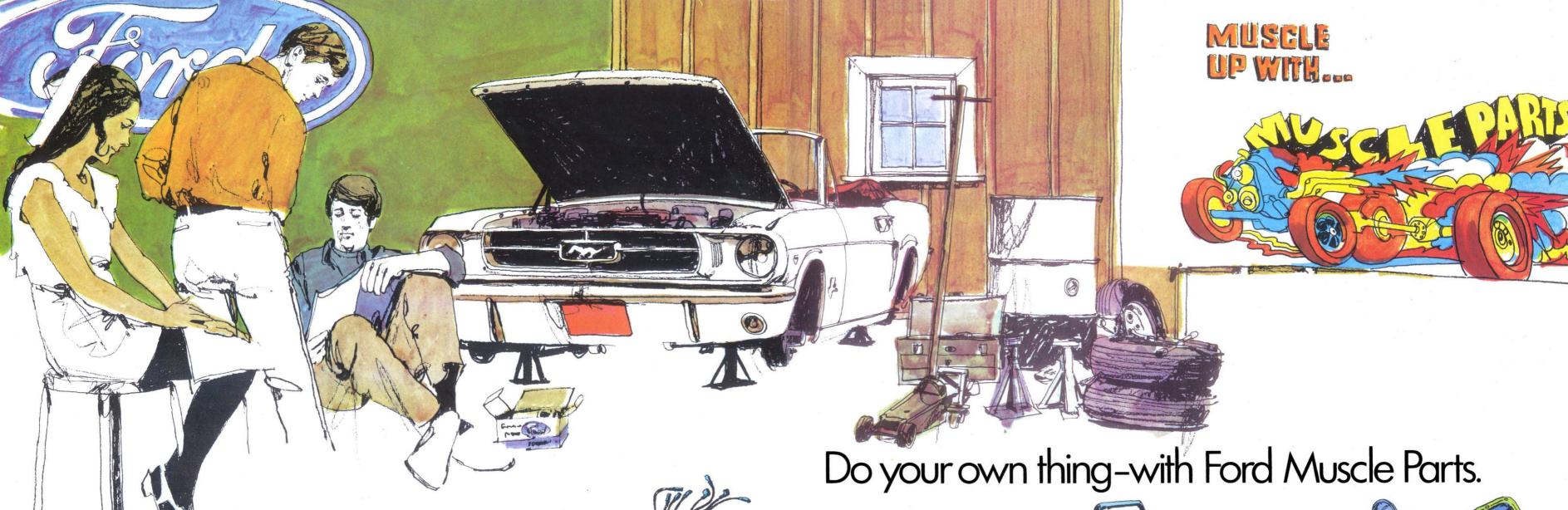
Engines: Standard-351 CID 2V V-8. Optional-351 4V V-8, 428 Cobra 4V V-8, 428 Cobra Jet 4V Ram-Air V-8. (See page 16 for detailed engine specifications.) Transmissions: Standard-3-speed fully synchronized manual; ratios; 2.42:1, 1.61:1, 1.0:1, (3-speed not available with 428 CID V-8's.) Optional-4-speed fully synchronized manual with Hurst Shifter® (available with all engines); wide ratios: 2.78:1, 1.93:1, 1.36:1, 1.01:1; close ratios: 2.32:1, 1.69:1, 1.29:1, 1.0:1. (Note: 428 CID V-8's require close-ratio 4-speed.) SelectShift Cruise-O-Matic, ratios: 2.46:1, 1.46:1, 1.0:1 with 351 V-8's-2.40:1, 1.47:1, 1.0:1. Rear Axle: Ratios: 3-speed manual, 2.75:1, 3.0, 3.25; 4-speed manual, 3.0, 3.25, 3.50, SelectShift, 2.75, 3.0, 3.25, 3.50. Traction-Lok, 3.0, 3.25, 3.50, 3.91 (w/428 Cobra and CJ Ram-Air Drag Pack Option), 4.30. Brakes: 10-in. drums, lining area 173.3 sq. in. Optional-Floating Caliper, Front Power Disc Brakes, swept area 231.0 sq. in. Wheelbase: 108.0". Length 187.4". Tread. front and rear 58.5". Wheels: 14", 7" rim, E70-14 wide-tread, belted bias-ply white sidewall tires, F70 tires with 428 engines. (raised white letters with 428 CJ). Suspension: Competition type with front and rear stabilizer bar and extra heavy-duty springs, front shocks and rear shocks. Details: Dual racing mirrors, high-back knitted vinyl bucket seats, console, sound package, three-spoke Rim-Blow woodtoned steering wheel, woodtoned appliques on instrument panel with clock, dual hood lock pins, rocker panel molding, honeycomb back panel applique. deck lid tape stripe, painted hood stripes, sports wheel covers

hood scoop (functional "Shaker" hood scoop on 428 4V Cobra Jet Ram-Air engine, optional with 351 2V and 4V V-8), unique grille with simulated driving lamps, pop-open gas cap, bright dual exhaust extensions with 351 4V and 428 4V engines. Colors: Grabber Green, Grabber Blue, Grabber Orange, plus 13 other exciting colors.

Mach 1 Options: Power Steering, AM or AM/FM Stereo Radio. Drag Pack (with 428 Cobra or Cobra Jet V-8), including Traction-Lok differential with 3.50, 3.91 or 4.30 axle ratio, "No-Spin" with 4.30 ratio, plus modified oil cooler, modified cap screw connecting rods, camshaft flywheel and damper. Quick ratio (16:1) manual steering, rear spoiler, sport slats for backlite. Tilt steering wheel, and much more







Ford performance engineers developed Muscle Parts for 1970. The good pieces that turn your stocker into a real screamer. We took what we'd learned from running Fordpowered cars in competition around the world and applied it to our stockers. For openers to save you money, we searched the parts bins for regular service parts that might do the job. If they didn't, we designed new pieces. We took them out on the test track and wrung them out—all the way. Some broke. So we reworked them and dynotested them and ran them over again. We didn't guit until we had bulletproof pieces across the board for our 289, 302, 351, 390, 406, 427 and 428 V-8's. We call 'em MUSCLE

Carburetors, Air Cleaners, and Intake Manifolds: The first stage on your way to more power is better breathing. Start with a low-restriction air cleaner like C5ZZ-9600-W. Bolt on 31 horsepower on your 289. 302 or 1969 351 V-8 with a C8AZ-9510-AD carburetor and high riser aluminum manifold C9OZ-9424 D (289 and 302 V-8's) C9OZ-9424-E (351 V-8's).

On 390 V-8's go for C9AZ-9510-N 735 cfm CJ carburetor and

C6AZ-9424-H aluminum manifold (shown), for 17 HP.

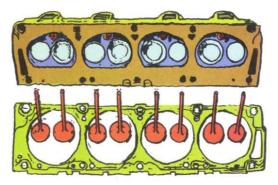
Camshafts: To take advantage of better breathing carbs and manifolds, add a performance cam to open valves higher and longer. On 390 V-8's use C6OZ-6250-B

hydraulic cam. You get a total gain of 35 horsepower at 5000. On 289's, 302's, 351's, try the C9OZ-6250-C hydraulic cam

for a gain of 40 horsepower at 5500.

Dual Point Distributors: Keep firing at the increased rpm power peaks with dual point distributors C50Z 12127-E for 289's and 302's and COAZ-12127-L for the 390 V-8.

Cylinder Heads and Valves: Add better breathing heads with bigger valves to get the maximum gain from carb, manifold and cam modifications. On 289 and 302 V-8's the 351 CID V-8 cylinder heads



C9OZ-6049-F with exhaust valves C9OZ-6505-A and intakes C9OZ-6507-A will add up to 32 horsepower. Note for 390 V-8's use 428 CJ head C8OZ-6049-K and intake valve C9OZ-6507-U, exhaust valve C9OZ-6505-N for up to 21 horsepower gain.

Pistons and Rods: To get full benefit from the new heads, the compression

ratios can be increased by adding pop-up pistons. Use C9OZ-6109-B (left) and C9OZ-6108-AA (right) on 289 and 302 V-8's. On 390's use pistons C9OZ-6108-Y (RH) and C9OZ-6109-A (LH) (shown). Conn rod C6AZ-6200-C is also recommended for the 390.

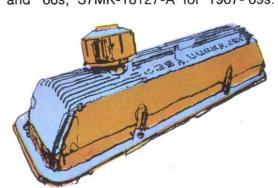
Mechanical Cam: Solid lifter cam C7FE-6250-A will achieve a peak horsepower gain of 59 bhp at 6000 rpm for 289 or 302 V-8's. Recommended only with manual transmissions, C9OZ-6200-B (302 V-8 only and C9ZZ-6200-B with 289 V-8) Connecting Rods, C9ZZ-6316-A Damper.

Clutches and Pressure Plates: After

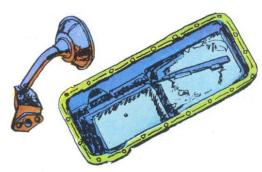
you've built up your engine's power, consider a heavy-duty clutch and pressure plate to make sure you're getting that power through to the gears. Use C3OZ-7A537-A on 289, 302 V-8's of 1963-'67 vintage and C8OZ-7A537-A on '68s.

Traction and Stabilizer Bars: Improve cornering power on your Mustang with a 1" stabilizer bar -S1MS-5482-A for 1965-'66: C9ZZ-5482-E for 1967-'69. Keep your rear wheels on the ground

when the green light comes on. Bolt-on traction bars will do it on all 1965-'69 Mustangs. Parts S2MK-18127-A for 1965 and '66s; S7MK-18127-A for 1967-'69s.



Cast Aluminum Valve Covers: After you've built up your mill to new specs, brag a little with aluminum rocker covers. Let under-the-hood "eyeballers" know you're running the hot setup. Here's the one for the 352 and 390-C9ZZ-6582-B.



Deep Sump Oil Pan: Resist high-rev oil frothing and run cooler with C8AX-6675-A on 390's, 427's and 428's. Its deepsump design holds more oil-7 qts. with filter. It has a scraper to resist oil surge. With it use Oil Pickup C5AE-6622-B.

Hood Scoops and Lock Pins: Add a scoop to your hood. Wide base fiberglass

model C9ZZ-16C630-C or the narrow C9WY-16C630-B. Button your hood down tight and it won't give you any sur-

prises in the stretch! Hood pin kit fits all Mustangs and Fairlane/Torinos -C9OZ-16700-C.

Note: For prices and information on all Ford Muscle Parts see your Ford Dealer and ask about the big 80-page Ford MUSCLE PARTS Catalog.

PARTS.





Engine	Avail- ability	Bore and Stroke	Carb.	Cyl. Head Type	Comp. Ratio	Fuel	Valves and Camshaft	Crank- Shaft	Horse- power RPM	Torque	Exhaust System	Transmission Availability
302 2V V-8	Standard on Torino GT	4.00 x 3.00	2-Barrel	Wedge	9.5:1	Reg.	Hydraulic Tappets	Cast	220 @ 4600	300 @ 2600	Single	3-Speed Manual, SelectShift Cruise-O-Matic
302 4V "Boss" V-8	Mustang Boss 302 SportsRoof	4.00 X 3.00	4-Barrel 780 CFM	Polyangle Wedge, Canted Valves	10.6:1	Prem.	Solid Lifters	Forged Steel	290 @ 5800	290 @ 4300	Dual	4-Speed Manual
351 2V V-8	Torino GT, Mustang Mach I	4.00 x 3.50	2-Barrel	Wedge	9.5:1	Reg.	Hydraulic Tappets	Cast	250 @ 4600	355 @ 2600	Single	3-Speed Manual, 4-Speed Manual, SelectShift Cruise-O-Matic
351 4V V-8	Torino GT, Mustang Mach I	4.00 x 3.50	Ford 4-Barrel Air Valve 600 CFM	Polyangle Wedge, Canted Valves	11.0:1	Prem.	Hydraulic Lifters	Cast	300 @ 5400	380 @ 3400	Dual	3-Speed Manual, 4-Speed Manual, SelectShift Cruise-O-Matic
428 Cobra 4V V-8	Mustang Mach I	4.13 x 3.98	4-Barrel 735 CFM	Wedge	10.6:1	Prem.	Hydraulic Lifters	Cast	335 @ 5200	440 @ 3400	Dual	4-Speed Manual, SelectShift Cruise-O-Matic
428 4V Cobra Jet Ram-Air V-8	Mustang Mach I	4.13 x 3.98	4-Barrel 735 CFM Ram Intake	Wedge	10.6:1	Prem.	Hydraulic Lifters	Cast	335 @ 5200	440 @ 3400	Dual	4-Speed Manual, SelectShift Cruise-O-Matic
429 4V V-8	Cobra, Torino GT	4.36 x 3.59	4-Barrel	Canted Valve	10.5:1	Prem.	Hydraulic Lifters	Cast, Heavy-Duty	360 @ 4600	480 @ 3400	Dual	4-Speed Manual, SelectShift Cruise-O-Matic
429 4V Cobra V-8	Cobra, Torino GT	4.36 x 3.59	4-Barrel 700 CFM	Canted Valve	11.3:1	Prem.	Hydraulic Lifters	Hi-Nodular Iron	370 * @ 5400	450 @ 3400	Dual	4-Speed Manual, SelectShift Cruise-O-Matic
429 4V Cobra Jet Ram-Air V-8	Cobra, Torino GT	4.36 X 3.59	4-Barrel 700 CFM Ram Intake	Canted Valve	11.3:1	Prem.	Hydraulic Lifters	Hi-Nodular Iron	370 * @ 5400	450 @ 3400	Dual	4-Speed Manual, SelectShift Cruise-O-Matic
429 4V "Boss" V-8	Mustang	4.36 x 3.60	4-Barrel 735 CFM Ram Intake	Aluminum Crescent	10.5:1	Prem.	Solid Lifter Mustang Boss 429 2.29" Intake 1.91" Exhaust	Forged Steel	375 @ 5200	450 @ 3400	Dual	4-Speed Manual

At the time of printing this guide 170, product information, and specifications were in effect and correct. Ford Division of Ford Motor Company reserves the right to change product specifications and designs at any time, without notice and without incurring obligation.

Products used in Racing Competition are specifically excluded from any Warranty or Guarantee, expressed or implied. Products utilized for Racing Competition shall be deemed "subjected to abnormal use" and do not qualify for Warranty protection.

*375 hp @ 5600 rpm with Drag Pack option.





Special Offer! Ford Racing Jackets, Patches, Decals.

Ford Racing Jackets. Make the pit scene in this authentic Ford racing jacket. Beautifully tailored in top quality 100% oxford nylon. Dark Ford blue with distinctive white shoulder and arm striping. With 2 pockets, rugged zipper and drawstring bottom. Washable. \$12.95. Sizes: Small, medium, large and extra large.

For those chilly days get the fully fleece-lined model. \$18.95.



Ford Power Patch. Wear the going thing, big square flaming snake patch. Swiss embroidered in 8 colors. \$1.50.

Ford Power Decal. Show your colors. Brilliant-colored flaming snake "Ford Power" decal, large size square. 25¢. All of the above items are available at most Ford Dealer

Performance Corners. They may also be ordered by mail, accompanied by check or money order for the full amount to:

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