

Technical parts and service information published by the Autolite-Ford Parts Division and distributed by Ford and Lincoln-Mercury dealers to assist servicemen in Service Stations, Independent Garages and Fleets. ALL ABOUT THE "BOSS 302", PLUS...BLUEPRINTING SPECIFICATIONS AND STRIP TIPS FOR THE "BOSS 429!" ALSO IN THIS ISSUE-HOW YOU CAN BECOME

A "MUSCLE PARTS" HEADQUARTERS.

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IN THIS ISSUE

PERFORMANCE CORNER Boss 302 . . . Engine and **Chassis Features**, 2-5 Options Boss 429 . . . Engine and Chassis Features. Specifications, Options, "Strip Tips for Quick Trippers"... 6-11 MUSCLE PARTS PROFITS Muscle Parts Catalog, **Promotion Materials**, Parts Ordering 12-13 TECHNICAL SERVICE BRIEFS Timely Tips for the 14-15 Service Bay REMANUFACTURED FORD PARTS Brake Linings, Wheel Cylinder Repair Kits 16 FILTER FREE FOR ALL Specials on Oil, Air and **Fuel Filters**

Be sure and file this and future bulletins for ready reference. If you have any suggestions for additional information that you would like to see included in this publication, please write to: Autolite-Ford Parts Division of Ford Motor Company, Merchandising Services Dept., P.O. Box 3000, Livonia, Michigan 48151.

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VOL. 69 MSD 70 LITHO IN U.S.A.

BOSS 302...



The "Boss 302" Mustang is on the road and ready to drop in on you for service. Based on the Trans-Am racing version of the Mustang Sports Roof model, the Boss 302 was designed as an integral street/track racing package.

ENGINE



Figure 1-Boss 302 Engine

The special version of the production 302 engine used in the Boss 302 is the same engine that is classed as a 5-litre F.I.A. "formula" engine. The major difference between this engine and a stock 302 is the addition of specially-designed cylinder heads featuring canted valves and high-turbulence combustion chambers. The chambers are called "advancedwedge" design, because of their resemblance to the famous "wedge" design used in the racing "427" engine. The canted valves allow larger valve heads, larger cylinder head ports, and give a more straight-line flow of gases in and out of the cylinder.

NEW "MUSCLE MUSTANG" FROM FORD



Figure 2-New Cylinder Head with "Canted" Valves

THE CAMSHAFT is a mechanical type having a duration of 290° for both intake and exhaust, with an overlap of 58° . Lobe lift of the stock camshaft is .290", which—with a valve lash of 0.025"—gives an actual valve lift of .477".

THE CRANKSHAFT is of forged steel, for extra rigidity and strength. It is balanced both statically and dynamically, with all the rods and pistons in place. To withstand severe high speed stress, the oversize forged bearing caps use four bolts instead of the customary two, on the intermediate caps.



Figure 3-New Four-Bolt Main Bearing Caps

Because the four bolts used on the bearing caps are two sizes ($\frac{7}{16}''$ inboard bolts, and $\frac{3}{8}''$ outboard bolts) they have different torque specs. The $\frac{7}{16}''$ bolts should be torqued to 60-70#, and the $\frac{3}{8}''$ bolts should be torqued to 35-40#. See Figure 3.

CONNECTING RODS are the same type used in the High Performance 289 – forged steel for high load-carrying characteristics.

Connecting rod bolts are larger than the stock 302 (3%'' as compared to 5%'') and the rods are spot-faced for the bolts instead of being broached.

PISTONS are the extruded, pop-up type that give a maximum compression ratio of 11:1 (nominal 10.5:1). Super premium fuel is recommended with this engine.

THE IGNITION SYSTEM uses an entirely new dual-point distributor. This distributor features dual-diaphragm vacuum/centrifugal advance, and has a concentric-pivot breaker plate.



Figure 4-New Dual-Point, Dual-Advance Distributor

SPARK PLUGS are Autolite AF-32s, gapped at 0.028"-0.032". This set-up is good for all-around street and light strip use. For hotter strip use, go to a colder plug such as the AF-12 or AF-22. This will keep you in the Autolite Power Tip plugs, but will allow some strip running. For all-out strip use, use AF-1 or AF-2–a non-power-tip type plug that will give you all-out capabilities.

CARBURETION is furnished through a monster 780 cfm Holley carburetor and a cast aluminum high-rise manifold. This gives good fuel/air distribution to the new cylinder heads, and provides ample breathing for both high and low rpm.



Figure 5-Holley Carburetor and High Rise Manifold

LUBRICATION is based on a high-pressure oil pump delivering over 75 pounds pressure at the pump. The oil pan features a "windage baffle"—a shroud that shields the oil in the sump from the crankshaft windage blast—and an antisurge baffle that assures oil pick-up under all acceleration conditions.

AND TO PROTECT THE ENGINE... Ford has introduced an Electronic RPM Limiter. This device is connected into the ignition system at the distributor, and is designed to short out cylinders at random as the engine reaches 6150 rpm. This shorting out of cylinders limits engine rpm smoothly, and without throwing undue strain on the engine. This prevents an inadvertent overspeed condition that could cause damage to the engine.



BOSS 302...



Figure 6-Front Disc Brakes

REAR BRAKES are conventional drum type, with 10-inch drums and single wheel cylinders. Effective lining area with this set-up is 146 square inches. The rear brakes—like the front disc brakes—are self-adjusting. Adjustment takes place when brakes are applied while backing up.

THE MASTER CYLINDER is powered through a dualdiaphragm booster which helps reduce system reaction time for faster braking control. Power to the front and rear brakes is split in a ratio of 65% front and 35% rear, for more straight-line braking.

WHEELS AND TIRES

WHEELS are stamped steel, deep dish, "MAGNUM 500" models, featuring a wide-base, drop-center safety design. Size of the wheels is 15" diameter, with a 7" wide rim. The finish of the standard wheels (shown) is Argent, with bright chrome trim rings. Optional wheels are the same dimensions, but are fully chrome-plated.



Figure 7-"Magnum 500" Wheel and Fiberglass Belted Tire

TIRES are F60 x 15 Super Wide Oval type, with a tread construction of 4 plys (2 fiberglass and 2 polyester) and a sidewall construction of 2 plys of polyester. The cords are

DRIVE LINE

THE HIGH PERFORMANCE CLUTCH is a centrifugal type, employing a woven asbestos facing .125" thick. The disc is damped with torsionally-mounted springs, in the conventional manner. Pressure plate springs exert an 1162-pound force when engaged, thus allowing positive drive of the clutch disc.

THE 4-SPEED TRANSMISSION is Ford's close-ratio box with fairly "long" ratios (1st-2.78:1, 2nd-1.93:1, 3rd-1.36:1, 4th-direct). Optional ratios are a bit shorter. (1st-2.32:1, 2nd-1.69:1, 3rd-1.29:1, 4th-direct) for the man who wants to wind up a little faster through the gears. Standard reverse ratio is 2.78:1, while the optional gearing furnishes a 2.32:1 ratio.

REAR AXLE RATIO with the standard package is 3.50:1, with a hefty 9" ring gear set-up. It features Ford's unique straddle-mounted pinion for extra duty, and has a 31-spline shaft.

Also available for the Boss 302 is the Traction-Lok rear end, offering ratios of 3.50:1, 3.91:1, and 4.30:1. This provides a wider range of final ratios and more traction for the 302, helping to get all the power down to the ground.

SUSPENSION

THE FRONT SUSPENSION is composed of high-rate (350 lb./in.) springs, direct acting Gabriel shock absorbers, and a special steel stabilizer bar which features specially calibrated rubber mounts. This stabilizer helps prevent side-sway and diving under cornering conditions.

THE REAR SUSPENSION is Hotchkiss type, featuring leaf springs (150 lb./in.) and staggered Gabriel shock absorbers with pistons over 1" in diameter. The staggered shock absorber arrangement (see September 1968 Shop Tips) is designed to restrain or "damp out" excessive wheel hop during full-throttle starts.

BRAKES

FRONT BRAKES are floating caliper disc-type units, with ventilated cast iron discs. The ventilated cast-iron disc provides exceptional cooling and water dissipation, in addition to increased fade resistance, even after repeated stops. Ease of servicing disc brakes make them ideal for sportsman drivers, while providing maximum braking power.

NEW "MUSCLE MUSTANG" FROM FORD

Continued

bias wound, giving a semi-radial configuration. The tires also feature white raised letters on the sidewall. Tires should be rotated regularly, dependent on vehicle usage and/or signs of uneven wear.

NOTE: When changing tires or wheels on the BOSS 302, use caution so not to damage the argent or chromeplate finish on the wheels and lug-nuts that are standard equipment on these models.

SPOILERS

In recent years, it has become common to see airfoil shapes and spoilers on race cars of all descriptions, from flipped-up rear decks on road racing coupes to full-size wings on grand prix racers. The reasoning behind this aerodynamic leaning is that as speed increases, so does the effect of the surrounding air on the vehicle. Because of the speed, certain aerodynamic principles apply to fast-moving vehicles.

LIFT is created by the wing-like shape of the top of the car as the vehicle picks up speed. High wind speeds under the vehicle tend to cause *drag* by creating a partial vacuum at the back of the car as the wind exits. This tends to give the vehicle lightness on the road as speed increases. It also causes the engine to work harder to overcome drag on the tail of the vehicle.

THE BOSS 302 spoilers are designed to partially overcome these "speed stoppers," and to lend more high speed maneuverability to the car.

THE FRONT SPOILER is mounted just under the front bumper. Its job is to break up (or add turbulence to) the smooth flow of air under the car. In this way, the air pressure under the car stays low, and lift and drag are decreased.

THE REAR SPOILER has an inverted airfoil shape, which tends to apply pressure in a downward direction to the rear of the vehicle.



Figure 8-Cross-Section of Rear Spoiler

SPORTS SLATS are an option that—although they do nothing for performance—provide that longed-for comfort for rear seat passengers during sunny days. (Dual mirrors are a mandatory option with the Sports Slats.)

The slats are constructed in such a way that they provide maximum rear seat comfort and minimum vision obstruction for the driver. They are hinged so that the rear glass can be cleaned. The entire assembly lifts off the glass, and is secured in position by two spring clips.



Figure 9-Sports Slats for the Boss 302

COLOR AND TRIM

EXTERIOR COLOR COMBINATIONS for the Boss 302 are based upon utility and performance image. Most prominent is the use of "racing black"—a non-glare finish—contrasting with the high-gloss finish. Racing black is used on the hood, surrounding the headlights, surrounding the tail lights, and on both front and rear spoilers. In addition, it is used on a unique "C" stripe on the sides of the Boss 302.



Figure 10-Boss 302 Interior with Options

INTERIOR TRIM COMBINATIONS allow a full selection of luxury appointments to go with the unique exterior styling. From the optional high-backed bucket seats trimmed in cool "Comfortweave" knitted vinyl down to the standard luxury nylon carpeting, the Boss offers a choice of interiors that's unique in the performance field. With the deluxe interior decor group, simulated teakwood applique trims the instrument panel and optional console, as well as the sportsstyled "Rim-Blow" steering wheel.



For those who want the ultimate "Muscle Car," Ford offers the Boss 429. It's all "Boss," from the all-new Boss 429 engine to the fiberglass belted super-wide tires.

THE ENGINE AND DRIVE LINE



Figure 1-Boss 429 Engine

The Boss 429 engine puts out 370 horsepower, and over 400 foot/pounds of torque. Behind this new engine are a few "secrets" that make it the contender of the year for the "mean machine" award.

NEW ALUMINUM HEADS are one of the big secrets of the 429's power. Extremely large, round, free flowing ports match up with a flow-meter-developed high-riser intake manifold, and with smoothly contoured exhaust manifolds. The valves in the crescent curve of the heads are exceptionally large and placed transversely so that the intake valves are nearest the intake manifold and conversely the exhaust valves are closer to the header side of the engine.



Figure 2–Combustion Chamber Configuration

By staggering the valves in this manner, there is substantial spacing between exhaust valves, thus eliminating hotspot areas. A sophisticated chrome-molly/cobalt-steel alloy is used for the valve seat inserts in the aluminum head. They are shrink-fitted into the cylinder heads, forming a permanent bond. The inserts have exceptional durability and resistance to warpage.

A COLD-AIR PACKAGE is used on the Boss 429 engine, to provide direct intake of outside air to the engine. This set-up is similar to that used on Cobra Jet models, except that the door in the air cleaner is controlled by the driver, rather than by engine vacuum.

THE HOLLEY CARBURETOR is a 735 cfm model, and features replaceable primary and secondary jets.

FEATURES AND SPECIFICATIONS

IGNITION is by a new dual-point, dual-advance distributor with concentric advance plate. This provides maximum spark to the new, smaller Autolite AF-32 spark plugs that are used as stock equipment.

THE BOSS 429 DRIVE LINE is basically similar to that used on the Boss 302-high-performance clutch and pressure plate driving through the Ford full-synchro 4-speed transmission. Gear ratios on the Boss 429 are the same as the optional Boss 302 gears (1st-2.32:1, 2nd-1.69:1, 3rd-1.29:1, 4th-direct, and reverse-2.32:1).

THE REAR AXLE for the Boss 429 incorporates the "Traction-Lok" feature as standard equipment, with ratios available from 3.50:1 to a low 4.30:1. The standard ratio is 3.91:1.

SUSPENSION features ultra-heavy-duty Gabriel front and rear shock absorbers, with the rear shocks in the staggered configuration to reduce wheel hop on full throttle starts. In addition, the Boss 429 features both front and rear stabilizer bars to damp out pitch and roll on cornering.

BRAKES are the same as on the Boss 302-disc front and drum rear. Rear brakes feature high-performance, low-fade linings for maximum control.

TIRES AND WHEELS are the same as the Boss 302; F60 x 15 Belted Super Wide Oval tires mounted on Chrome-plated "Magnum 500" steel wheels with a 7" wide rim.

BODY, TRIM AND COLOR

THE EXTERIOR DESIGN of the Boss 429 is unmistakably Mustang . . . changed only by its massive functional hood scoop and front spoiler and a slight modification to the fender wheel lips to accommodate the extra inch of tread on the F60 x 15 tires.

COLORS available are Raven Black, Royal Maroon, Candyapple Red, Wimbledon White, Blue and Black Jade.

THE ALL-BLACK INTERIOR is fully carpeted, features high-backed seats covered in Ford's "Comfortweave" knitted vinyl, and is quieted by the special Mustang Mach I sound insulation package.

STANDARD AND MANDATORY EQUIPMENT "Traction-Lok" Rear Axle w/3.91:1 Ratio

Special High-Performance Suspension

Standard

Front Spoiler

- Boss 429 CID V-8 Engine
- High-Capacity Engine Oil Cooler
- 65-Ampere Alternator
- 85-Ampere Battery Mounted In Trunk
- Power Steering With Oil Cooler
- 4-Speed Close-Ratio Gearbox
- Power Front Disc Brakes/Rear Drum Brakes
- F60 x 15 Super Wide Oval Fiberglass Belted Tires "Magnum 500" 15" x 7" Chrome-Plated
- Wheels
- PRODUCTION BLUEPRINTING SEPECIFICATIONS (1969 ENGINES)

Following are the Ford Engineering Specifications for production of the Boss 429 engine. On page 10 you will find the specifications for balancing the Boss 429.

BOSS 429 SPECIFICATIONS-PRODUCTION

Compression Ratio10.5:1
Bore and Stroke
Brake Horsepower
Gross Torque FtLbs
Engine Idle Manifold Vacuum15 In. Hg.
Oil Pressure Hot @ 3000 RPM45-60
Belt Tension
Compression PressureLowest Reading Within 75% of Highest Reading
Firing Order1-5-4-2-6-3-7-8
Curb Idle RPM
Spark PlugsAF-32
Gap
Distributor Point Gap
Dwell Angle @ Idle 28°
Initial Distributor Timing 10° BTDC
(Vacuum Hoses Off)
Spring Tension Measured
Directly behind Contact on Arm17-21 OZ.
Lobe to Lobe Variation

Cylinder Head

Combustion Chamber Volume
Valve Guide Bore Dia. Int. & Exh
Valve Seat Width Intake
Valve Seat Width Exhaust
Valve Seat Angle-Intake
Valve Seat Angle-Exhaust
Valve Seat Runout-Max
Valve Arrangement (Front to Rear) RT. IE IE IE IE
LT. EI EI EI EI
Steel Compression "O" Ring Gasket Thickness085095
Rubber "O" Ring Gasket Thickness
Compression "O" Ring Groove Depth in Head062066
Rubber "O" Ring Groove Depth in Head
Valve Train
Rocker Arm Shaft O.D
Rocker Arm to Rocker Shaft Clearance
Rocker Arm Bore Diameter
Rocker Arm Ratio, Intake1.53:1
Exhaust1.71:1
Valve Push Rod Runout, Max
Valve Lifter Diameter
Valve Lifter Clearance to Bore
Hydraulic Lifter Leakdown Rate 5-50 Sec. Max.
measured at 1/16 In.

	Plunger T	
Valve Spring Pressure	87-97 @	1.82
30	0-331 @	1.32
Wear Limit	80 @	1.82
	280 @	1.32

7

- Console High-Back Bucket Seats With "Comfortweave" Vinyl
- Dual Racing Mirrors

Inter Decor Group

Visibility Group

Tachometer

Deluxe Seat Belts



PRODUCTION SPECIFICATIONS-CONTINUED

Valve Spring Free Length (Approx.) 2.03
Valve Spring Out-of-Square (Max.)
Valve to Valve Guide Clearance
Intake
Exhaust
Hydraulic Lifter Depression
Allowable
Desirable
Valve Head Diameter, Intake
Exhaust
Valve Face Angle, Intake
Exhaust
Valve Stem Dia., Intake
Exhaust
Valve Seat Insert O.D., Intake2.4935-2.4945
Exhaust
Valve Seat Insert to Bore Interference
Camshaft—Hydraulic (C9AZ-6250-A)
Lobe Lift-Intake, Exhaust
Theoretical Valve Lift, Intake
Exhaust
Camshaft Timing
Intake Valve Opens
.100 @ 14.5° ATC
Closes
.100 @ 21.5° BBC
Exhaust Valve Opens
.100 @ 41° ABC
Closes
.100 @ 26.5° BTC
Duration
Overlap

Camshaft-Mechanical (D0AZ-6250-D)

Lobe Lift-Intake, Exhaust
Theoretical Valve Lift, Intake
Exhaust
Camshaft Timing
Intake Valve Opens
.100 @ 7° ATC
Closes
.100 @ 21.6° BBC
Exhaust Valve Opens
.100 @ 41° ABC
Closes
.100 @ 26.5° BTC
Duration, Intake, Exhaust
Overlap
Camshaft End Play
Wear Limit
Camshaft Journal to Bearing Clearance
Wear Limit
Camshaft Journal Dia2.1238-2.1248

BOSS 429

Camshaft Bearing Location (Distance that front edge of bearing is installed toward rear from front face of	
cylinder block	0
Camshaft Sprocket Assembled Face	
Runout	
TIR Max	8
Crankshaft Sprocket Assembled	
Face Runout	
TIR Max	6
Timing Chain Deflection, Max	

Cylinder Block

Cylinder Bore Diameter4.36	600-4.3632
Max. Taper	001
Wear Limit	
Max. Out of Round	001
Main Bearing Bore Diameter	22-3.1930
Distributor Shaft Bearing Bore Dia 5	

Crankshaft and Flywheel

Main Bearing Journal Diameter2.9994-3.000
Runout Max
Thrust Face Runout Max00
Taper Max
Thrust Bearing Journal Length 1.124-1.12
Main Bearing Surface Finish RMS Max
Thrust Face
Connecting Rod Journal2.4992-2.500
Taper Max
Crankshaft Free End Play
Crankshaft to Rear Face of Block
Runout
Flywheel Clutch Face Runout
Flywheel O.D. Runout
Crankshaft Bearings
Connecting Rod Brg. to Crankshaft
Clearance-Desired
Allowable
Standard Thickness
Main Bearings to Crankshaft
Main Bearings to Crankshaft Clearance–Desired

Connecting Rod

Piston Pin Bushing I.D1.0386-1.0393
Out of Round Max
Taper Max
Bearing Bore Dia 2.6522-2.6530
Out of Round Max
Taper Max
Alignment-Maximum Total Difference
(Pin bushing and crankshaft bearing
bore must be parallel and in the
same vertical plane within specified
total difference at ends of 8-inch
long bar measured 4 inches on each
side of rod.)
Twist
Bend

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the Autolite fall filter free for all!

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A	UIOLIIE P	LK-1000 ASSORTMEN	T
QUANTITY FILTER		AUTOLITE SUGGESTED STOCKING DEALER PRICE, EACH*	AMOUNT
6	FL-1	\$2.26	\$13.56
6	FL-2	\$2.28	\$13.68
4	FL-9	\$2.28	\$ 9.12
4	FL-10	\$2.26	\$ 9.04
6	FL-12	\$2.26	\$13.56
6	FL-22	\$1.65	\$ 9.90

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(At suggested Autolite Stocking Dealer Prices)

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Suggested Prices At Time of Printing

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> dual fuel filter offer!

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FL-2 (POPULAR GM APPLICATION)

FL-12 (POPULAR GM APPLICATION)

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here is a handy cross reference of the more popular filters available at our parts counter:

Purolator to Autolite **OIL FILTERS** PFRI FI-1 P34, P51.... P48.... PER3. FL-3 FL-20 PERS FL-2 P49 FL-147 P70FF, PN15. PER14 FL-8 FL-145FL-9 P76-1, P76-2...FL-23 PER33. FL-12 P124 FL-21 PER40 P141 PER49. FL-10 FL-22 Duralator to Autolita

AIR F	IL TERS
AFP4	AFP49
AFP13FA-4	AFP52FA-8
AFP31FA-2	AFP57FA-3
AFP32FA-25	AFP59FA-7
AFP40FA-5	AFP61FA-6
AFP45FA-1	AFP64FA-12 AFP68FA-23

Purolator to Autolite

GAS F	ILTERS
P111-5FG-1	GF11-1FG-2
EP124FG-3	GF11-4FG-4
EP124-1	GF11-8, GF11-11FG-8
EP221	GF11-10FG-5
EP226FG-10	GF11-18FG-12
GF11	GF13FG-15
	GF13-1 FG-14

Fram to Autolite

OIL F	ILTERS
CH-6PL, CH-129PLFL-20	PH10, PH-11FL-2
CH-14FL-24	PH13, PH-14FL-7
CH-129PL, CH-6PLFL-20	PH14FL-7
PB50FL-3	PH16FL-5
PH4FL-8	PH21FL-6
PH8FL-1	PH25FL-9

Fram to Autolite

AIR F	ILTERS
CA-105, CA-154PL FA-4	CA-160PL
CA-127FA-17	CA-162PLFA-15
CA-135FA-32	CA-168PL
CA-136	CA-173PL
CA-149	CA-176PL
CA-304FA-51	CA-179PL, CA-179APL, FA-12
CA-324	CA-114
CA-146PL	CA-182PL
CA-148PL FA-3	CA-183PL
CA-154PL, CA-105FA-4	CA-184PL
	CA-189PLFA-7

Fram to Autolite GAS FILTERS G3, G-15 G7 FG-3 FG-10 FG-8 CG-3 FG-6 CG-6 CG-7, CG-8 FG-9 FG-9 FG-4 G8 FG-5 FG-2 69 CG-8 G12, G-2 G15, G-3 CG-10 FG-18 FG-8 FG-1 CG-20 FG-2 FG-12 G2, G-12 G16 G19 FG-13 AC to Autolite **OIL FILTERS** PF-24 FL-3 FL-9 **PF-25** FL-10 PF-2 FL-1 PF-29 PF-4 FL-12 FL-8 PF-6 FL-4 PF-122 FL-21 PF-7 FL-2 PF-133-1 FL-37 **PF-10** FL-2 PF-141 FL-22 PF-210, PF-351 **PF-12** FL-10 FL-20 FL-5 PF-292 FL-24 **PF-13** PF-336, PF-336-1 **PF-15** FL-6 FL-23 AC to Autolite **AIR FILTERS** FA-10 A124CW, A124C. FA-26 A490 FA-16 A134C FA-8 FA-7 A50C, A51C A169CW, A132C A53C, A94C. FA-9 A171C..... FA-43 FA-17 A59C A63C, A119C A176C FA-13 FA-14 A178CW, A194C A180C, A96C A211C, A202C FA-31 A81C FA-4 FA-12 A83C FA-15 FA-32 A85C FA-30 FA-2 A86CW, A86C A212CW... FA-39 A217C. A112C FA-24 FA-5 FA-23 A117C FA-1 A218C AC to Autolite

	GAS F	ILTERS
	GF-61, GF-412,	GF-94
1	GF-67, GF-95, GF-96,	GF-124FG-3
	GF-415FG-13	GF-149
ų	GF-68	GF-414
	GF-70	GF-417
	GF-71	GF-433
	GF-73, GF-98	GF-434FG-14

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FEATURES AND SPECIFICATIONS

Operation

Bolt-Cylinder Head9/ Bolt-Flywheel to Crankshaft7/

Assembled to Crankshaft

(Total	2 Rod	ls)															
		Clearar	ice	33										.001	0	00)20
	Wear	Limit			•	 e.		3	÷			•				.00)23

Piston

Diameter
Red Code
Blue Code
.003 OS
Piston to Cylinder Bore Clearance
Piston Pin Bore Diameter 1.0402-1.0405
Piston Pin
Length
Diameter Std
Pin to Piston Clearance
Pin to Connecting Rod Bushing,
Interference
Piston Rings

Ring Width, Compression Ring
Top
Bottom
Side Clearance, Compression Ring
Top
Bottom
Side Clearance, Oil Ring Snug
Ring Gap Width, Compression Ring
Тор
Bottom
Ring Gap Width, Oil Ring
Oil Pump
Relief Valve Spring Tension Lbs.
@ Specified Length
Drive Shaft to Housing Bearing
Clearance
Rotor Assembly End Clearance
Outer Race to Housing
(Radial Clearance)
Oil Pan Capacity8 Qts.*
*(Includes 1 In Filter
1 In Cooler)

BOSS 429 TORQUE SPECIFICATIONS

Bolt and nut installation torque specifications with lubricated threads (preservative oil coating acceptable).

Operation	Thread Size	Installation Torque
Bolt-Rocker Arm Cover to		
Cylinder Head5	/16	12-15 Ft. Lb.
Clamp-Water Bypass Hose		15-20 In. Lb.
Bolt-Oil Pan1	/4-20	7-9 Ft. Lbs.
5	/16-18	9-11 Ft. Lbs.
Plug-Oil Pan Drain1	/2-20	15-25 Ft. Lb.
Nut-Connecting Rod (Hand		
Start-Torque 35-40 Ft.		
Lb.) Hand Torque to 3	8-24	40-45 Ft. Lb.
Bolt-Camshaft Thrust Plate		
to Cyl. Block 1	/4-20	9-12 Ft. Lb.
Bolt-Cam Sprocket to	11 becove	
Camshaft	8/8-16	40-45 Ft. Lb.

	Continued				
Thread Size	Installation Torque				
.9/16-12	See Head Install.				
ft7/16-20	75-85 Ft. Lb.				
.1/2-13	95-105 Ft. Lb.				

Bolt – Flywheel to Crankshalt / 16-20	73-83 Ft. LD.
Bolt-Main Bearing Cap1/2-13	95-105 Ft. Lb.
Bolt-Main Bearing Cap3/8-16	35-40 Ft. Lb.
Bolt-Main Bearing Cap7/16-14	70-80 Ft. Lb.
Bolt-Crankshaft Damper to	10 00 11. 20.
Crankshaft (Hand Start)	
Torque to Specifications5/8-18	70 00 5: 11
	70-90 Ft. Lb.
Spark Plug14 MM	5-10 Ft. Lb.
Oil Filter Cartridge	
(Lubricated Seal) Tighten 1	/2 turn after seal
contact	
	: 105-115 In. Lb.
Insert-Oil Filter Mounting-	
To Block	2 60-100
Bolt-Exhaust Manifold to	
Cylinder Head 3 /8-16	28-33 Ft. Lb.
Shoulder Stud-Exhaust	
Manifold to Cyl. Head3/8-16	28-33 Ft. Lb.
Nut-Carburetor Mounting.5/16-24	12-15 Ft. Lb.
Stud-Carburetor Mounting	
(Hand Start-Drive to	
Limit of Threads)5/16-18	15 Max. Ft. Lb.
Stud-Intake Manifold	
Attaching (Hand Start-	
Drive to Limit of Threads). 3/8-16	15-25 Ft. Lb.
Bolt-Distribution Hold-	10 80 111 801
Down	12-15 Ft. Lb.
Bolt-Intake Manifold3/8-16	See Head Install.
Bolt—Front Cover	12-15 Ft. Lb.
Bolt-Water Pump to Front	12-15 11, 150.
Cover	12-15 Ft. Lb.
Bolt-Valve Rocker Arm	12-15 Ft. LO.
	12 16 54 14
Shaft	12-15 Ft. Lb.
Bolt=Off Filter Adapter	45 50 5. 11
Mounting	45-50 Ft. Lb.
Bolt-Clutch Housing to	10 00 5- 11
Cylinder Block7/16-14	45-50 Ft. Lbs.
Fuel Filter to Carburetor1/8 NPS	F 40-75 In. Lb.
Stud-Valve Rocker Pedestal	
-Assy. to Cylinder Head . 5/16-18	11-17 Ft. Lb.
Nut-Valve Rocker Shaft &	and the second second
Pedestal	19-27 Ft. Lb.
Nut-Valve Rocker Arm	
Adjusting Screw7/16-20	20-30 Ft. Lb.

The following general installation torque specifications apply to any operation not listed:

Thread Size	Torque Ft. Lb.	Thread Size	Torque Ft. Lb.
1/4-20	6-9	7/16-14	43-50
1/4-28	6-9	7/16-20	50-60
1/4 Pipe	12-17		
5/16-18	12-15	1/2-13	60-70
5/16-24	15-18	1/2-20	70-80
		1/2-14 Pipe	25-30
3/8-16	20-25	9/16-18	85-95
3/8-24	30-35	5/8-18	130-145
3/8 Pipe	23-28		



STREET 'N STRIP BLUEPRINTING SPECS

Here are the blueprinting and balancing specifications developed by Ford Engineering and the Stock Vehicle Department. They reflect field experience as well as engineering tests, and should be used as a guideline for racing machines. All specifications are recommended for "Stock" class.

BOSS 429 BLUEPRINTING SPECS-STREET 'N STRIP

Critical Dimensions

Piston to Cylinder Bore Clearance
Main Bearing Clearance
Connecting Rod Bearing Clearance
Connecting Rod Side Clearance (Min.)
Piston Pin Clearance
Piston to Deck Height (Obtain by
slabbing block)
*Valve Seat Width and Angle
Intake (At outer edge of valve)
30°
Exhaust (At outer edge of valve)
45°
Compression Ring Gasket Thickness
Valve Spring Installed Height:
C9AZ-6250-A Hydraulic Cam or
D0AZ-6250-D Mechanical Cam
(Obtain by shimming under valve spring
seat)
• Intake (123 Lbs.)1.75
• Exhaust (101 Lbs.)1.80
For all-out drag racing only. For street operation, the valves must

For all-out drag racing only. For street operation, the valves must have a larger seating area for increased heat dissipation and resistance to burning under street conditions. Therefore, for street operation or other than all-out quarter-mile racing, use .070" for intake and .090" for exhaust.

Balance

(A) Heavyweight Rod, Floating Pin Version, Designated "820S" on Intake Manifold under Coil Assembly. 1st 279 engines of 1969 production.

	No.	Cent. Wt. (Grams)
Rod Assembly; Crankpin End	2	1636-1648
Bearing, Rod	4	136-138
Oil In Crankpin		30
Crank Plugs		72-78
TOTAL CENTRIFUGAL		
WEIGHT		.1874-1894
NOMINAL TOTAL		
CENTRIFUGAL WEIGHT		.1884
Piston	1	780-786
Piston Pin	1	186.5-189.5
Ring, Compression (Upper)	1	22-24
(Lower)		21-23

BOSS 429

Ring, Oil Control.1Retainer, Piston Pin.2Rod Assembly; Piston Pin End.1	3.5
TOTAL RECIPROCATING WEIGHT NOMINAL TOTAL RECIPROCATING WEIGHT TOTAL BOBWEIGHT	.1360.5 .3244.5 (Nominal)
 (B) Lightweight Rod, Pressed Pin V "820T" on Intake Manifold under Rod Assembly; Crankpin End 2 Bearing, Rod	Coil Assembly. 1168-1180 139-141
TOTAL CENTRIFUGAL WEIGHT. NOMINAL TOTAL CENTRIFUGAL WEIGHT	. 1409-1429
Piston Pin 1	22-24
Ring, Oil Control 1 Rod Assembly; Crankpin End 1	18-20
TOTAL RECIPROCATING WEIGHT NOMINAL TOTAL RECIPROCATING WEIGHT	.1255.5
TOTAL BOBWEIGHT	.2674.5 (Nominal)

STRIP TIPS FOR QUICK TRIPPERS

ENGINE—Here are some touch-up tricks that will give you the ultimate output from the Boss 429.

- FOR THE C9AZ-6250-A HYDRAULIC CAM-Back off the rocker arm adjusting screw (with the lifter on the base circle of the cam) until the push rods are free to turn, then tighten a quarter turn. This will prevent tappets from "pumping up," and will raise valve toss speed of the engine.
- FOR THE D0AZ-6250-D MECHANICAL CAM-Remember that the aluminum cylinder heads "grow" as they warm up, causing quite a change in the valve lash (hot vs. cold). Set valves at 0.013" cold or at 0.024" hot.
- Install lightweight, fabricated exhaust headers. Try 34" primary tubes into the collectors. Make collectors of 2¼8" O.D. material for street use, or 2½" for strip. Headers are available from: Larson Engineering

26121 Van Born Road

Taylor, Michigan 48180

- Use a reduced-pitch flex-blade fan, or one with decreased diameter.
- Use solid-core ignition wire in place of the standard radio-suppression type. Autolite "Steelductor Silicone" cable and connectors work well, and are heat resistant also.
- Block the heat riser passage. This will cause the mixture to run cooler and produce more power.
- Install the deep sump oil pan and extra long oil pickup.
- Use #84 secondary carburetor jets with standard exhaust, or #86's with headers and open exhaust.
- Disconnect the power-steering pump drive belt.

FEATURES AND SPECIFICATIONS

Continued

- (STREET) Set the distributor initial advance at 12-14 degrees. With the maximum internal advance of 20 degrees at 3200 engine rpm, this will give a maximum advance of 32-34 degrees. (STRIP) Use C3AZ-12171-A breaker points (2 sets) and check for 32 oz. tension. These are low mass points to prevent point bounce, but they also have a high wear rate. Remove the vacuum hoses and plug the openings. Try 10-14 degrees initial spark advance. Check distributor to desired rpm on distributor machine. Maximum safe advance is 38 degrees. Retard spark as necessary to prevent preignition damage to the aluminum pistons and cylinder heads.
- Open up the hood scoop for increased air flow. To do this, remove the scoop from the vehicle, and cut away the front part of the fiberglass inner panel which seals on the air cleaner tray. Reinstall the scoop.
- Use Autolite AF-22 spark plugs for strip, AF-32's for street. Set gap at .032-.036.

- Install a 5-6 psi electric fuel pump at the tank.
- Use the highest octane fuel available.

DRIVE LINE

- Remove teeth on second and third gear blocker rings, for faster power shifting.
- Install 4.57:1 ratio ring and pinion, along with a Detroit Automotive Locker.
- Install 7" slicks on rear.

SUSPENSION

- Install 302 CID Mustang front springs.
- Install 90/10 uplock front shocks and reinforce the shock absorber brackets.
- Install a good set of traction bars on the rear axle.

NO. PER PART NAME PART NUMBER ENGINE A. Gaskets Cylinder Head (Comp.) (Serviced in kit 8 Cylinder Head .50 I.D. "O" Ring C9ZZ-6051-B 34 Cylinder Head .25 I.D. "O" Ring 1 Kit Per Cyl, Head) 10 Valve Rocker Cover C9AZ-6584-A 2 Cylinder Front Cover C8SZ-6020-A 1 Water Pump Cover C8SZ-8513-A 1 Water Pump C8VE-8507-A 1 Water Outlet Connection C8SZ-8255-A 1 Intake Manifold to Head C9A7-9441-B 2 Carburetor to Spacer C9A7-9447-R 1 Fuel Pump C3AZ-9417-C 1 Carburetor to Air Cleaner C5ZZ-9654-B 1 Oil Pump to Cylinder Block C8SZ-6659-A 1 Oil Pump to Screen & Cover B8TZ-6626-A 1 Oil Pump Inlet Tube Flange B8TZ-6626-A 1 **Oil Filter Adapter** C9AZ-6A636-A 1 **Oil Filter Bolt** 86H-6734 2 Oil Pan R.H. (Use Kit Number 1 Oil Pan L.H. C8SZ-6781-A 1 Oil Pan Drain Plug Contains 1 Each) 1 Heat Tube C9AZ-9D429-A 3 **B**. Seals Crankshaft Front Oil C3AZ-6700-A 1 Crankshaft Rear Oil C9AZ-6701-A 2 Oil Pan Contained in C8SZ-6781-A Kit) 2 Intake Manifold to Block C8SZ-9A425-A 2 Engine Rear Cover Plate C8SZ-6411-A 1 Carburetor Air Inlet to Hood C9ZZ-9B624-F 1

C9AZ-6571-A

16

As Required

Valve Stem

Chlorothane (Degreaser)

C. Materials-Cylinder Head Installation

BOSS 429 PARTS LIST

PART NAME	PART NUMBE	R NO. PER ENGINE
Silicone Rubber Primer Silicone Rubber Sealant		As Required As Required
D. Bearings		
Camshaft	C8SZ-6261-A	5
Clutch Pilot	B8AZ-7600-A	1
Crankshaft Main		
Front Upper	C9AZ-6333-G	4
.010 U.S. (Thicker Wall)	C9AZ-6333-H	4
Front Lower	C9AZ-6337-G	4
.010 U.S.	C9AZ-6337-H	4
Thrust Upper	C9AZ-6333-N	1
.010 U.S.	C9AZ-6333-P	1
Thrust Lower	C9AZ-6337-N	1
.010 U.S.	C9AZ-6337-P	1
Connecting Rod	C8SZ-6211-A	16
.010 U.S. (Thicker Wall)	C8SZ-6211-B	16
E. Rings, Piston		
Compression Upper	(Use Standard	8
Compression Lower	C8SZ-6148-A	8
Segment Oil Control	Kit For Each	16
Spacer Oil Control	2 Pistons)	8
F. Miscellaneous		
Insert Valve Seat Intake	C9AZ-6057-A	8
Insert Valve Seat Exhaust	C9AZ-6057-B	8
Insert Valve Guide	C9AZ-6510-A	16
Insert Thread (Helicoil)		
Exhaust Manifold	382007-S2	16
Hose—Water Bypass	C20Z-8597-C	1
Hose-Fuel	C3SZ-9324-C	1
Clamp Fuel Hose	373030-S8	2

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CORTINA WHEEL SHIMMY 1967/68 CORTINA MODEL "C"

Wheel shimmy or small rotational movement of the steering wheel may be encountered on some 1967 and 1968 model "C" Cortinas. This condition is usually noted at speeds between 40 and 50 mph.

To reduce this condition, a step by step procedure is outlined and should be followed exactly.

- Torque all front suspension and steering gear mounting bolts.
- Set steering gear pre-loads to specification.
- Check and adjust front wheel bearings to specification.
- Measure wheel and tire runouts both laterally and radially. To bring the unit to the best level possible these runouts should be less than .030" both radially and laterally. In some cases it may be necessary to replace the tires on which the radial and lateral runouts are greater than .030".
- Install the revised lower track control arms, Part No. 3034E-3078-B and the revised compliance bushings 3014E-5493-D (Class "C" items).
- · Set toe-in to maximum specification.
- Dynamically balance all 4 wheels and tires on the car using a strobe light balancer.

Dynamic balance means that the tire and wheel assemblies are balanced in two (2) directions, radial and lateral.

To balance the tires in a lateral direction requires a wheel balancer which utilizes a strobe light.



Figure 1-Use of Wheel Balance

Following are the steps required to perform a dynamic (radial and lateral) balance on the car.

ECHNICAL

- Place the strobe light pick-up beneath the lower suspension arm (vertical direction) and balance the wheel and tire in the normal manner.
- When the radial balance is completed, turn the wheel to be balanced approximately 20° outboard and remove the pick-up from the lower control arm. Rotate the pick-up 90° and place it on the inside of the brake backing plate or splash shield as near the front as possible.
- Spin the wheel and observe a reference point on the tirewheel assembly using the strobe light. Stop the wheel and rotate it by hand until the reference point is in the exact position as it was observed while spinning.
- Select weight as done in the radial balance procedure and attach it to the *inside* of the wheel in line with the pick-up.
- Place an identical weight on the *outside* of the wheel 180° from the first weight so that the dynamic weight will not destroy the radial balance.
- Repeat this procedure as necessary to achieve proper lateral balance, always counterbalancing the trial weight with an identical weight 180° from the pick-up.

4-SPEED SHIFT LINKAGE ADJUSTMENT All 1969 Ford-built Models w/Floor or Console-Mounted Linkage

The 1969 four-speed transmission shift linkage requires a more precise adjustment than previous models. The new adjustment procedure is described below and *must be followed* to obtain correct shift adjustment on the 1969 four-speed transmission.



Figure 2-Control Assembly

Adjustment Procedure

- Loosen the linkage adjustment nuts on the two forward speed shift rods at the control assembly as shown in Figure 2.
- Disconnect the reverse gear shift rod at the control assembly except on Fairlane which disconnects at the transmission lever.
- 3. Place an alignment tool, made of 1/4-inch diameter drill rod bent to an "L" shape, through the control bracket and linkage holes until it bottoms. Figure 2 inset illustrates the alignment tool specifications.
- 4. Rotate the reverse lever of the transmission clockwise to shift the transmission into reverse gear. The reverse lever is the center lever of the three levers as shown in Figure 3.
- Tighten the two forward speed shift rods at the control assembly to 10-20 lb. ft. torque.







Figure 3-Reverse Lever Detail

- 6. Rotate the reverse transmission lever counterclockwise until it stops as directed in Figure 4.
- 7. Attach the reverse shift rod to the control assembly, except Fairlane which attaches at the transmission lever, and torque nut to 10-20 lb. ft.



ERSE RODS SHOWN INCLUDE ALL MODES INSET FOR FAIRLANE WHICH HAVE THE ISTMENT SLOT AT THE TRANSMISSION E

Figure 4-Final Adjustment Details

8. Remove the alignment tool.

The above procedure will insure correct neutral position adjustment of the 1969 four-speed transmission in the neutral position.

Adjustment Tool Note

The adjustment tool specified for the 1969 four-speed shift linkage will fit similar applications on prior year four-speed shift models. Tools made for older four-speed model adjustment will not fit 1969 models.

ENGINE IGNITION NOISE IN RADIO **1968 Thunderbird**

Reports indicate that difficulty is being encountered in correcting some customer complaints of engine ignition noise audible during radio operation in 1968 Thunderbirds.

This problem is most frequently the result of an inadequately grounded antenna or a loose connection between the antenna lead-in cable and the antenna, see Figure 5. The following items can also contribute to this problem.

- Loose or missing hood bond strap.
- Loose or missing body to frame ground cable (left front fender apron to frame).
- Loose spark plug wires or fouled spark plugs.

If inspection and correction of the items mentioned above does not reduce the ignition noise to a satisfactory level, perform the operation below that applies to the radio installed in the vehicle.

AM Radio and AM Radio-Tape Play Combination

Install three additional hood bond straps (Part No. C7SA-16A600-A, Class CG) as shown in Figure 6.

AM/FM Stereo Radio

Install three additional hood bond straps (Part No. C7SA-16A600-A, Class CG) as shown in Figure 6.

Install a capacitor (Part No. C9SZ-18832-A, Class C) to the battery terminal of the ignition coil as shown in Figure 7. It will be necessary to remove the existing push-on wire terminal and install an evelet type terminal to the wire presently on the battery terminal of the coil so that the capacitor lead wire can be attached to the coil.





Figure 6-Installation of Hood Bond Straps



USE FOR AM/FM MULTIPLEX ONLY Figure 7-Installation of Ignition Coil Capacitor COMPLIMENTS OF

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