

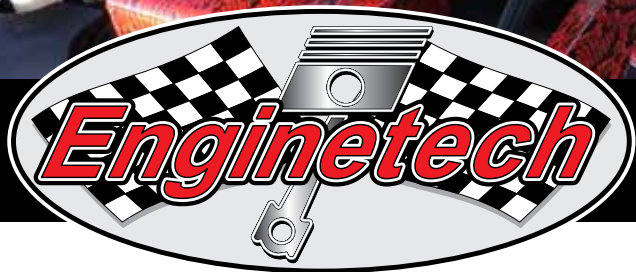
HIGH PERFORMANCE

**FORD
MODULAR
EDITION**



**1-800-869-8711
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**WINTER
2014**



HIGH PERFORMANCE FORD MODULAR EDITION

Within these pages you'll find our best selling Ford Modular Parts for Professional Engine Builders. If you have any questions or need to order, please call our HP Experts at 1-800-869-8711, option 4.

The Ford Modular engine is Ford's overhead camshaft (OHC) V8 and V10 engines produced in 4.6L, 5.0L (Cammer, Coyote), 5.4L, 5.8L and 6.8L sizes. Despite what you've heard, the Modular engine didn't get its name from its design, or because of sharing some parts in the engine family.

In fact, the name came from a manufacturing plant protocol where the plant and its tools could be changed

out in just a few hours to make different versions of the engine.

The Modular engines are used in many Ford, Lincoln and Mercury vehicles. The Modular engine used in Ford trucks was sold under the Triton name from 1997-2010. The InTech name was used for a time at Lincoln for those vehicles equipped with DOHC versions of the engines.

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Due to the nature of high performance and racing applications, Enginetech shall not, under any circumstances, be liable for any special, incidental or consequential damages of any kind from the purchase, installation or use of any Enginetech product in a high performance engine or any vehicle used for racing purposes.



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FORD MODULAR APPLICATION GUIDE

4.6L 2 Valve SOHC		4.6L 4 Valve DOHC	
DISPLACEMENT:	281 ci	DISPLACEMENT:	281 ci
BLOCK:	Romeo and Windsor	BLOCK:	Aluminum except for 03-04 SVT Cobra
HEADS:	non PI 91-98, 99-12 up Power Improved (PI)	HEADS:	Split-Port Aluminum
BORE/STROKE:	3.551 x 3.543	BORE/STROKE:	3.551 x 3.543
OUTPUT:	190-248HP, 270-295 lb-ft	OUTPUT:	260-390HP, 265-390 lb-ft
WHAT IT'S IN:	91-11 Ford Car, 97-10 Ford Truck	WHAT IT'S IN:	93-05 Lincoln, 96-01, 03-04 SVT Cobra, 03-04 Mach 1
4.6L 3 Valve SOHC		5.0L 4 Valve DOHC "Coyote"	
DISPLACEMENT:	281 ci	DISPLACEMENT:	302 ci
BLOCK:	Aluminum or Cast iron	BLOCK:	Aluminum
HEADS:	Aluminum Heads	HEADS:	Aluminum, Boss 302 has CNC Ported with Lightened Valvetrain
BORE/STROKE:	3.551 x 3.543	BORE/STROKE:	3.629 x 3.649
OUTPUT:	292-314HP, 315-320 lb-ft	OUTPUT:	360-449HP, 380-420 lb-ft
WHAT IT'S IN:	05-09, 10 Mustang, 06-10 Explorer, 07-10 Sport Trac, 09-10 F-Series, 06-10 Mountaineer	WHAT IT'S IN:	11-13 Mustang GT, 11 F-Series, 11 Falcon GT, 12-13 Boss 302

***Enginetech is your source for hundreds
of High Performance brands - from
Classic to Modern Muscle!***



FORD MODULAR APPLICATION GUIDE

5.4L 2 Valve SOHC		5.4L 4 Valve DOHC	
DISPLACEMENT:	330 ci	DISPLACEMENT:	330 ci
BLOCK:	Cast Iron	BLOCK:	Cast Iron except 11-12 Shelby GT500
HEADS:	Aluminum	HEADS:	Aluminum
BORE/STROKE:	3.551 x 4.165	BORE/STROKE:	3.551 x 4.165
OUTPUT:	230-380HP, 323-450 lb-ft	OUTPUT:	300-550 HP 355-410 lb-ft
WHAT IT'S IN:	97-04 F-Series, 97-04 Expedition, 07-14 E-Series, 99-04 SVT Lightning, 99-03 Harley-Davidson	WHAT IT'S IN:	99-04 Navigator, 00 SVT Cobra R, 02-05 Falcon, 07-08 Falcon FPV GT Cobra, 10-12 Shelby GT500
5.4L 3 Valve SOHC		5.8L 4 Valve DOHC	
DISPLACEMENT:	330 ci	DISPLACEMENT:	354 ci
BLOCK:	Cast iron	BLOCK:	Aluminum
HEADS:	Aluminum	HEADS:	Aluminum
BORE/STROKE:	3.551 x 4.165	BORE/STROKE:	3.68 x 4.165
OUTPUT:	295-320HP, 365-390 lb-ft	OUTPUT:	300-550 HP 355-410 lb-ft
WHAT IT'S IN:	02-07 Fairmont, 03-07 Fairlaine, 04-10 F-Series, 05-13 Expedition and Navigator	WHAT IT'S IN:	99-04 Navigator, 00 SVT Cobra R, 02-05 Falcon, 07-08 Falcon FPV GT Cobra, 10-12 Shelby GT500
		6.8L 2 and 3V SOHC	
		DISPLACEMENT:	413 ci
		BLOCK:	Cast Iron
		HEADS:	Aluminum
		BORE/STROKE:	3.551 x 4.165
		OUTPUT:	305-362HP, 425-457 lb-ft
		WHAT IT'S IN:	2v 97-14 E-Series, 99-04 F-Series Super Duty, 00-05 Excursion, 3V 05-10 F-Series Super Duty, 05-14 F450/F550 chassis cab, 12 F650/F750

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Trick of Flow[®] Specialties

THROTTLE BODIES



PART #	DESCRIPTION	CAR TYPE
TFS-24075	Multi-port injection, 75MM, Cast alum, Satin	96-04 Mustang GT 4.6L Includes Gaskets and Hardware
TFS-24070	Multi-port Injection, 70MM, Cast Alum, Satin	96-04 Mustang GT 4.6L Includes Gaskets and Hardware



PART #	DESCRIPTION	CAR TYPE
BBK-1780	Multi-Port Injection, 78MM, Alum, Natural	96-04 Mustang GT 4.6L
BBK-17800	Multi-Port Injection, 78MM, Alum, Polished	96-04 Mustang GT 4.6L
BBK-1763	Multi-Port Injection, Twin 62MM, Alum Natural	05-10 Mustang GT 4.6L, 07-08 Mustang Shelby GT
BBK-17110	Multi-Port Injection, Twin 65MM Alum Natural	03-04 Mustang SVT Cobra 4.6L
BBK-1705	Multi-Port Injection, Twin 62MM, Alum Natural	01 Mustang GT Bullit 4.6L, 03-04 Mustang Mach 1 4.6L, 96-99, 01,03,04 Mustang SVT Cobra 4.6L, 00 Mustang SVT Cobra R 5.4L
BBK-1700	Multi-Port Injection, 70MM, Alum Natural	Fits All 4.6L 2 Valve Engines
BBK-1701	Multi-Port Injection, 75MM, Alum Natural	Fits All 4.6L 2 Valve Engines
BBK-1755	Multi-Port Injection, Twin 65MM Alum Natural	99-03 Lightning 5.4L
BBK-1759	Multi-Port Injection, 80MM, Alum Natural	04-10 Ford Trucks 5.4L



PART #	DESCRIPTION	CAR TYPE
FMS-M-9926-MGT	Multi-Port Injection Twin 55MM Alum, Polished	08-09 Mustang Bullitt 4.6L, 05-10 Mustang GT 4.6L, 07-08 Mustang Shelby GT 4.6L
FMS-M-9926-3V	Multi-Port Injection Twin 62MM Alum, Polished	05-10 Mustang GT 4.6L
FMS-M-9926CJ65MM	Multi-Port Injection Twin 65MM Billet Alum, Polished	Mustang Cobra Jet 05-13 4.6L & 5.4L, 10-13 6.2L, 11-13 5.0L, Must Be Converted to Mech. Throttle Linkage. Use 03-04 Cobra-style linkage and cable ends. Throttle Cable and Stop Plate not included.
FMS-M-9926-Cj65	Multi-Port Injection Twin 65MM Billet Alum, Polished	11-12 Mustang GT 5.0L, fits using Ford Racing S/C kits only, 07-12 Shelby GT500 5.4L, 08-09 Shelby GT500KR 5.4L
FMS-M-9926-SCJ	Multi-Port Injection 1,797CFM Billet Alum, Polished	Super Cobra Jet 08-12 Mustang 5.4L S/C, 07-12 Shelby GT500 5.4L, 13 5.0 with Cobrajct, 13 Shelby GT500 5.8L, 08-09 Shelby GT500KR 5.4L

**Professional
Products[®]**



PART #	DESCRIPTION	CAR TYPE
PFS-69222	Multi-Port Injection, 70MM, Alum Satin	96-04 Mustang GT 4.6L 2V heads
PFS-69225	Multi-Port Injection, 75MM, Alum Satin	92-03 SOHC 4.6L & 5.4L
PFS-69220	Multi-Port Injection, 70MM, Alum, Polished	96-04 Mustang GT 4.6L 2V
PFS-69221	Multi-Port Injection, 75MM, Alum Polished	96-04 Mustang GT 4.6L with 2v heads

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RACING

INTAKE MANIFOLDS

PART #	DESCRIPTION
FMS-M-9424-P46	Multi-Port Alum, Comp Plastic Idle-6000 RPM PI Heads Only 96-04 Mustang GT 4.6L
FMS-M-9424-463V	Multi-Port Complete Composite 08-09 Mustang Bullitt 4.6L 3V 05-10 Mustang GT 4.6L 3V 07-08 Shelby GT 4.6L 3V
FMS-M-9000-M463V	Multi-Port Performance Manifold Combo 62MM 08-09 Mustang Bullitt 4.6L 3V 05-10 Mustang GT 4.6L 3V 07-08 Shelby GT 4.6L 3V



PART #	DESCRIPTION
EDL-28385	Victor Jr MPI Aluminum Natural Finish 2900-7500 RPM 92-04 4.6L SOHC For use with 4 barrel Throttle Body



PART #	DESCRIPTION
PFS-54155	Upper Intake Plenum High Flow EFI Elbow Aluminum Natural Finish Multi-Port 99-04 Mustang GT 4.6L 2V
PFS-54154	Upper Intake Plenum High Flow EFI Elbow Aluminum Polished Finish Multi-Port 99-04 Mustang GT 4.6L 2V
PFS-54061	Power Plus Typhoon FI Alum Natural Finish 1500-6500 RPM need Aftermarket cam 99-04 4.6L 2V
PFS-54060	Power Plus Typhoon FI Alum Polished Finish 1500-6500 RPM need Aftermarket cam 99-04 4.6L 2V





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EFI MANIFOLDS & EFI FUEL RAILS



TFS-5188000R

EFI Intake Manifolds for Ford 4.6L 2V

Add some ponies to your 4.6L 2V Mustang with a high performance Trick Flow EFI intake manifold. Trick Flow's revolutionary intakes reward you with big increases in performance over more expensive manifolds! StreetBurner intake manifolds are designed for mildly modified engines and feature small, 13.300" long small cross section runners to improve performance from 2,500 to 7,000 rpm. Track Heat intakes are recommended for hot street and track-ready vehicles and feature shorter, 11.000" long large cross section runners to build power in the 3,500 to 8,000 plus rpm operating range. Other power-building characteristics include symmetrical high-velocity intake ports and throttle body inlets, which work together to substantially increase airflow and distribute it evenly to the cylinders. Plus, the intakes are made from durable A319 aluminum so they're safe to use with nitrous oxide. And don't worry about hood clearance—these intakes are a direct bolt-on replacement for stock and will fit under the hood of all 1999-2004 Mustangs. The upper and lower intake manifolds are also available separately.

PART #	DESCRIPTION
STREETBURNER INTAKE MANIFOLD KITS	
TFS-51800000	StreetBurner manifold kit, 75mm throttle body inlet, silver, each
TFS-51811000	StreetBurner manifold kit, 75mm throttle body inlet, black, each
TFS-518B0000	StreetBurner manifold kit, 75mm throttle body inlet, natural, each
TRACK HEAT INTAKE MANIFOLD KITS	
TFS-51800002	Track Heat manifold kit, 75mm throttle body inlet, silver, each
TFS-51811002	Track Heat manifold kit, 75mm throttle body inlet, black, each
TFS-518B0002	Track Heat manifold kit, 75mm throttle body inlet, natural, each
TFS-51800003	Track Heat manifold kit, dual 57mm throttle body inlet, silver, each
TFS-51811003	Track Heat manifold kit, dual 57mm throttle body inlet, black, each
TFS-518B1003	Track Heat manifold kit, dual 57mm throttle body inlet, natural, each
TFX EFI FUEL RAILS	
TFS-5188000R	EFI fuel rails, 1999-2004 4.6L 2V, pair



TFS-518B1003

TFS-51811000



EFI INTAKE MANIFOLD SPECIFICATIONS FOR FORD 4.6L 2V			
MANIFOLD	STREETBURNER	TRACK HEAT	TRACK HEAT W/DUAL THROTTLE BODY INLETS
ENGINE SIZE	4.6L 2V	4.6L 2V	4.6L 2V
RUNNER	Small cross section with 13.300" runner	Large cross section with 11.000" runner	Large cross section with 11.000" runner
RPM RANGE	2,500-7,000	3,500-8,000	3,500-8,000
THROTTLE BODY INLET	75mm	75mm	Dual 57mm (Bullitt)
PORT SIZE AT HEAD	OE PI 1.700" x 2.000"	OE PI 1.700" x 2.000"	OE PI 1.700" x 2.000"
PORT SIZE AT PLENUM	1.750" x 1.750"	1.750" x 2.900"	1.750" x 2.900"
PORT SIZE AT PLENUM	7.8"	7.8"	8.3"

High-Flow Upper Plenums for Ford 4.6L 2V

More horsepower starts with more air—as much as 100 cfm of additional air over stock with a Trick Flow high-glow upper plenum. Made for 1996-2004 4.6L 2V powered Ford cars and trucks, the aluminum plenums have been raised 3/4" to enhance airflow yet still fit under a stock hood. They work with stock sensors, are compatible with throttle bodies up to 75mm, and come in silver, black, and natural finishes.

PART #	DESCRIPTION
TFS-51800001	Plenum, fits 1996-2004 Mustang, silver, each
TFS-51811001	Plenum, fits 1996-2004 Mustang, black, each
TFS-518B0001	Plenum, fits 1996-2004 Mustang, natural, each



TFS-518B0001

Trick Flow EFI Programmer for 1999-2004 4.6L 2V Ford Mustang GT

Trick Flow helped turn 1999-2004 4.6L 2V Mustang GT pony cars into thoroughbreds with dyno-proven Track Max® camshafts, TFX™ cold air intake kits, and Twisted Wedge® top-end engine kits. The Trick Flow EFI programmer completes the lineup by using the latest Flash technology to give you total control over shift points, DTCs, rev and speed limiters, idle rpm, and much more. It comes pre-programmed with custom tunes for use with all of Trick Flow's 4.6L 2V components—just pick the tune that matches your upgrades & the EFI programmer automatically optimizes your car's performance. Add an upgrade? Just change tunes!



TFS-88000

PART #	DESCRIPTION
TFS-88000	EFI programmer, each



FORD MODULAR MOTOR COIL PACKS

Ford Blaster Coil-On-Plug

APPLICATION	SINGLE	8-PACK	
99-04, 4.6L SOHC	MSD-8242	MSD-82428	45000v
05-Up 4.6L SOHC	MSD-8243	MSD-82438	45000v
99-04 4.6L DOHC	MSD-8244	MSD-82448	45000v



APPLICATION	SINGLE	8-PACK	
97-11 4.6L/5.4L 2V	ACC-140032	ACC-140032-8	26000v
04-08 4.6L/5.4L 3V	ACC-140033	ACC-140033-8	26000v
97-12 4.6L/5.4L 4V	ACC-140034	ACC-140034-8	26000v



APPLICATION	8-PACK	DESCRIPTION	
97-14 4.6L/5.4L 2V	GRN-21-2001-SF	Street Fighter Black	25000v
05-08 4.6L/5.4L 3V	GRN-21-3001-SF	Street Fighter Black	25000v
03-12 4.6L/5.4 4V	GRN-21-4001-SF	Street Fighter Black	25000v
97-14 4.6L/5.4L 2V	GRN-25-2001	Hot Street Black	45000v
05-08 4.6L/5.4L 3V	GRN-25-3001	Hot Street Black	45000v
03-12 4.6L/5.4 4V	GRN-25-4001	Hot Street Black	45000v
97-14 4.6L/5.4L 2V	GRN-25-2001MPG	MPG Plus Black	35000v
05-08 4.6L/5.4L 3V	GRN-25-3001MPG	MPG Plus Black	35000v
01-12-4.6L/5.4L 4V	GRN-25-4001MPG	MPG Plus Black	35000v
04-10 4.6L/5.4L 3V	GRN-28-1812SC	Pro Series Black	60000v
99-05 4.6L/5.4L 2V	GRN-28-1697SC	Pro Series X Black	65000V
99-10 4.6L/5.4L 4V	GRN-28-1705CP	Pro Series Black	60000v
99-10 4.6L/5.4L 4V	GRN-28-1705SC	Pro Series X Black	65000v





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RACING

FORD RACING COMPONENTS

4.6L/5.4L 2V POWER IMPROVEMENT (PI) CYLINDER HEADS – ASSEMBLED

- Fully machined and assembled with production Mustang GT valve train and camshaft
- Great for custom engine builds
- Less expensive than replacing valve train and remachining a used cylinder head
- Less expensive alternative to aftermarket performance heads
- Can be used on 1996-1998 engines with additional modifications and parts
- 43.9 /- 1.5cc combustion chamber
- Raises compression on 1996-1998 engines to 10:1
- Use head changing kit M-6067-D46

NOTE: Requires installation of oil galley plugs (not included).

PART#
M-6049-P46
M-6050-P46



4.6L/5.4L 3V CYLINDER HEADS

- Production 3V cylinder head
- Finished machined casting with guides and seats installed
- Use head changing kit M-6067-3V46
- Direct replacement for 2008-2010 Mustang with 12 mm spark plugs
- Heads will fit early cars originally equipped with "High Thread" design spark plugs.

Requires spark plug and ignition coil update

NOTE: Engines with late style 12 mm spark plugs can be identified by coil engineering number 8L3E. Engines with early style 16 mm "High Thread" design spark plugs can be identified by coil engineering number 3L3E.

PART#
M-6049-N3V
M-6050-N3V



4.6L/5.4L CNC-PORTED 3V CYLINDER HEADS – ASSEMBLED

- New OEM-production cylinder head casting
- CNC-ported to increase flow and performance
- 53cc combustion chamber (stock head is 51cc)
- Intake runner volume: 202cc (stock 174cc)
- Exhaust runner volume: 73cc (stock 62cc)
- Intake flow rate at .600 lift: 272 cfm
- Exhaust flow rate at .600 lift: 190 cfm
- Assembled with factory guides, production springs, valves, retainers, locks, and seals
- Does not include camshaft, followers, and hydraulic lash adjusters
- Use head changing kit M-6067-3V46
- Requires 2008-2010 12 mm spark plugs

NOTE: Engines with late style 12 mm spark plugs can be identified by coil engineering number 8L3E. Engines with early style 16 mm "High Thread" design spark plugs can be identified by coil engineering number 3L3E.

PART#
M-6049-N3VPA
M-6050-N3VPA





RACING

FORD RACING COMPONENTS

MUSTANG GT 5.0L 4V Ti-VCT CYLINDER HEAD

- Fits 2011-2013 Mustang GT
- Production Mustang GT 5.0L 4V Ti-VCT aluminum cylinder head
- Finished machined cylinder head ready to install
- 193cc intake port volume
- 31 mm exhaust valve
- 37 mm intake valve
- Includes intake and exhaust valves, springs and retainers
- Does not include cams or rocker arms
- Use head changing kit M-6067-M50BR

PART#
M-6049-M50
M-6050-M50



BOSS 302R CYLINDER HEAD ASSEMBLIES

- Fits 2011-2013 Mustang GT, BOSS 302, BOSS 302S and BOSS 302R
- Production cylinder head used on the BOSS 302 and 302R race car
- Fully CNC'd ports and chambers
- Loaded head assembly minus camshafts, rocker arms and lash adjusters
- 37 mm hollow stem intake valve
- 31.8 mm sodium filled exhaust valve (31 mm on base 5.0L)
- Increased rate valve springs can support 12 mm intake and 13 mm exhaust max. lift (base head is 12 mm/12 mm)
- Intake side flows approximately 4% more than base 5.0L head
- 193cc intake port volume
- Chamber volume nominally 55.6 cm
- Use head changing kit M-6067-M50BR

PART#
M-6049-M50BR
M-6050-M50BR





HIGH PERFORMANCE FORD MODULAR EDITION

Trick Flow[®] Specialties

CYLINDER HEADS



Twisted Wedge[®] 185 & Twisted Wedge[®] Track Heat[®] 185 Cylinder Heads for Ford 4.6L/5.4L 2V

TFS-52910002-C01

Trick Flow Twisted Wedge and Track Heat 185 series cylinder heads are the best aftermarket heads for modular-powered Fords. The secret: patented Twisted Wedge combustion chambers and intake valves* moved on the opposite side of the cam. The result is dramatic increases in mid-lift airflow, pistonto-valve clearance, and valve-to-bore clearance for using higher lift cams and larger valves without altering bore size or flycutting pistons. Other features include OE PI-style intake inlets, Fast As Cast[®] runners that deliver near-CNC-ported airflow, CNC-profiled combustion chambers, 3/4" thick decks, patented replaceable cam bearing journals*, and 3/4"-reach spark plugs. The heads fit all 2V Romeo and Windsor engines and accept all OE-style camshafts, followers, lash adjusters, valve covers, and most OE Ford front covers. Twisted Wedge 185 heads are intended for mildly modified engines; Twisted Wedge Track Heat 185 heads are for engines with power adders and/or high rpm applications. Cylinder heads are available fully assembled or as bare castings. Sold individually.

PART #	DESCRIPTION
TWISTED WEDGE 185 HEADS, FAST AS CAST RUNNERS, ASSEMBLED	
TFS-51910001-M38	38cc combustion chambers, 90 lb. beehive valve springs, 185cc intake runners
TFS-51910002-M44	44cc combustion chambers, 90 lb. beehive valve springs, 185cc intake runners
TWISTED WEDGE TRACK HEAT 185 HEADS, FAST AS CAST RUNNERS, ASSEMBLED	
TFS-51910003-M38	38cc combustion chambers, 125 lb. beehive valve springs, 185cc intake runners
TFS-51910004-M44	44cc combustion chambers, 125 lb. beehive valve springs, 185cc intake runners
TFS-51910005-M38	38cc combustion chambers, 150 lb. dual valve springs, 185cc intake runners
TFS-51910006-M44	44cc combustion chambers, 150 lb. dual valve springs, 185cc intake runners

AIRFLOW RESULTS: TWISTED WEDGE 185		
LIFT VALUE	INTAKE FLOW CFM	EXHAUST FLOW CFM
.100"	58	49
.200"	125	101
.300"	175	143
.400"	224	174
.500"	250	179
.600"	252	188

Tests conducted at 28" of water (pressure). Bore size: 3.562" CNC-profiled combustion chambers; exhaust with 1 3/4" pipe.

Power Steering Reservoir Bracket for Ford 5.4L 2V Trucks

Use this hefty steel bracket to move your 1997-2010 5.4L Ford truck's power steering reservoir from the cylinder head to the valve cover so you can run Trick Flow Twisted Wedge 185/195 series heads. Includes flange bolts and captive nut clips for easy installation.



TFS-51954PSB	Power steering reservoir bracket, each
--------------	--

8mm Timing Cover Bolt & Stud Kit for Ford 4.6L/5.4L 2V

Trick Flow's 8mm timing cover bolt and stud kit allows you to maintain factory accessory mounting when using our Twisted Wedge 185/195 series cylinder heads on modular engines originally equipped with 10mm bolts and studs.



TFS-51954TCB	Timing cover bolt and stud kit, each
--------------	--------------------------------------

Twisted Wedge[®] Race 195 Cylinder Heads for Ford 4.6L/5.4L 2V

Trick Flow Twisted Wedge Race 195 cylinder heads are perfect for big bore engine builds, superchargers and turbos, high compression E85, big shot nitrous oxide, and other mega-power combinations. The heads have the same features of the Twisted wedge 185 series heads—patented Twisted Wedge combustion chambers*, altered intake valve positions, OE PI-style intake inlets, CNC-profiled combustion chambers, 3/4" thick decks, patented replaceable cam bearing journals*, and 3/4"-reach spark plugs—but have fully CNC Competition Ported runners with a premium high resolution surface finish for ultimate performance. Larger, stronger valves and race-duty valvetrain components give these heads 8,000-plus rpm capability. Cylinder heads are available fully assembled or as bare castings. Sold individually.

PART #	DESCRIPTION
TWISTED WEDGE RACE 195 HEADS, CNC COMPETITION PORTED RUNNERS, ASSEMBLED	
TFS-52910002-C01	195cc intake runners



TFS-52910002-C01

AIRFLOW RESULTS: TWISTED WEDGE RACE 195		
LIFT VALUE	INTAKE FLOW CFM	EXHAUST FLOW CFM
.100"	61	51
.200"	131	105
.300"	191	152
.400"	234	183
.500"	262	295
.600"	278	199

Tests conducted at 28" of water (pressure). Bore size: 3.700" CNC-profiled combustion chambers; exhaust with 1 3/4" pipe.



INTAKE COMBOS

TFXTM Intake Combos for Ford 4.6L 2V

TFXTM Intake Combos for Ford 4.6L 2V Trick Flow bundled its best air intake components into these TFX intake combos so you can easily upgrade a 1996-2004 4.6L 2V Mustang—no mixing or matching required. You get a Trick Flow cold air intake kit, an aluminum upper plenum with silver finish, and your choice of a 70mm or 75mm throttle body. It's easy to install, it all fits under the stock hood, is 50-state legal, and works with the computer's factory programming. Manufactured by K&N for Trick Flow.



TFS-K51864070

PART #	DESCRIPTION
TFS-K51864070	TFX intake combo, 70mm throttle body, each
TFS-K51864075	TFX intake combo, 75mm throttle body, each

VALVE COVER KITS

PART #	DESCRIPTION
TFS-51800801	Valve cover kit, Romeo engines, 11-bolt, silver, each
TFS-51811801	Valve cover kit, Romeo engines, 11-bolt, black, each
TFS-5180B801	Valve cover kit, Romeo engines, 11-bolt, natural, each
TFS-51800802	Valve cover kit, Windsor engines, 13-/14-bolt, silver, each
TFS-51811802	Valve cover kit, Windsor engines, 13-/14-bolt, black, each
TFS-5180B802	Valve cover kit, Windsor engines, 13-/14-bolt, natural, each
TFS-51800800	Oil filler cap and grommet, each
TFS-51800804	Valve cover gaskets, Trick Flow valve covers only, pair
TFS-51800805	Valve cover sealing washers, set of 27
TFS-51800810	Upgrade/replacement PCV and baffle kit, each

Cast Aluminum Valve Cover Kits for Ford 4.6L/5.4L 2V

Trick Flow's lightweight cast aluminum valve covers for Ford 4.6L/5.4L 2V engines are more durable and eliminate the cracking and distortion problems that plague the factory plastic covers. Unique design features include a baffled PCV connection plus baffled and threaded fresh air connections for forced induction applications. The covers come complete with OE-style gaskets, bolts, bolt seals, and two filler caps. **NOTE: Valve covers fit vehicles with left or right side oil fill.**



TFS-51800805
TFS-51800800



TFS-51800804



TFS-51811801

TOP-END ENGINE KITS

Twisted Wedge® Top-End Engine Kits for Ford 4.6L 2V

Get the most out of your Ford 4.6L 2V with Trick Flow's Twisted Wedge top-end engine kits. Trick Flow engineers tune each kit to deliver optimum horsepower and torque—taking the time and guesswork out of designing a winning combination and saving you some hard-earned cash in the process. The Twisted Wedge top-end kits are built around a set of our dyno-proven Twisted Wedge 185 cylinder heads with 90 lb. valve springs. The Twisted Wedge Track Heat top-end kits feature our race-winning Twisted Wedge Track Heat 185 cylinder heads with 125 lb. valve springs. With each kit, you get your choice of 38cc or 44cc CNC-profiled combustion chambers plus a Track Max® hydraulic roller camshaft set (TFS-51802001), matching followers, lash adjusters, timing chains, valve spring compressor tool, and intake and head gasket kit.

PART #	DESCRIPTION
Twisted Wedge 185 Top-End Engine Kits	
TFS-K519-380-375	380 hp/375 ft.-lbs., 44cc combustion chambers, each
TFS-K519-390-375	390 hp/375 ft.-lbs., 38cc combustion chambers, each
Twisted Wedge Track Heat 185 Top-End Engine Kits	
TFS-K520-380-375	380 hp/375 ft.-lbs., 44cc combustion chambers, each
TFS-K520-390-375	390 hp/375 ft.-lbs., 38cc combustion chambers, each



TFS-K519-390-375



HIGH PERFORMANCE FORD MODULAR EDITION



FORD 4.6L & 5.4L SOHC (2 VALVE)

RACE MASTER VALVES - Must use factory locks for triple grooves and use Manley's Bead Loc® P/N 13089-16 with the Bead Loc® single radius groove.



PART#	TYPE	HEAD DIAMETER	STEM DIAMETER	INSTALLED HEIGHT	O/A LENGTH	TIP LENGTH	UNDERHEAD ANGLE RADIUS	MARGIN	SEAT WIDTH	TOP OF HEAD	WEIGHT/GRAMS
1999 AND LATER w/ TRIPLE GROOVE											
11637-8	Exh.	36.0mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	66
11639-8	Exh.	37.0mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	68
11636-8	Int.	44.5mm	.2750	Stock	4.705	.470	10° x 3/8"	.050	.080	5° Dish	76
11640-8	Int.	45.5mm	.2750	Stock	4.705	.470	10° x 3/8"	.050	.080	5° Dish	78
1999 AND LATER w/ BEAD LOC® GROOVE											
11637B-8	Exh.	36.0mm	.2740	Stock	4.650	.485	15° x 1/2"	.060	.080	9° Dish	66
11639B-8	Exh.	37.0mm	.2740	Stock	4.650	.485	15° x 1/2"	.060	.080	9° Dish	68
11636B-8	Int.	44.5mm	.2750	Stock	4.705	.485	10° x 3/8"	.050	.080	5° Dish	76
11640B-8	Int.	45.5mm	.2750	Stock	4.705	.485	10° x 3/8"	.050	.080	5° Dish	78
1996 - 1998 w/ TRIPLE GROOVE											
11635-8	Exh.	34.0mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	62
11637-8*	Exh.	36.0mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	66
11634-8	Int.	44.5mm	.2750	Stock	4.630	.470	10° x 3/8"	.050	.080	5° Dish	77
11638-8*	Int.	46.83mm	.2750	Stock	4.630	.470	10° x 3/8"	.050	.080	5° Dish	82
1996 - 1998 w/ BEAD LOC® GROOVE											
11635B-8	Exh.	34.0mm	.2740	Stock	4.650	.485	15° x 1/2"	.060	.080	9° Dish	62
11637B-8*	Exh.	36.0mm	.2740	Stock	4.650	.485	15° x 1/2"	.060	.080	9° Dish	66
11634B-8	Int.	44.5mm	.2750	Stock	4.630	.485	10° x 3/8"	.050	.080	5° Dish	77
11638B-8*	Int.	46.83mm	.2750	Stock	4.630	.485	10° x 3/8"	.050	.080	5° Dish	82

*Part numbers 11637-8, 11637B-8, 11638-8 and 11638B-8 are for the Ford Racing M-6049-D46 cylinder head.

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MANLEY

FORD 4.6L & 5.4L DOHC (3 VALVE)

RACE MASTER VALVES & EXTREME DUTY VALVES - Must use factory locks for triple grooves and use Manley's Bead Loc® P/N 13088-24 with the Bead Loc® single radius groove.



PART#	TYPE	HEAD DIAMETER	STEM DIAMETER	INSTALLED HEIGHT	O/A LENGTH	TIP LENGTH	UNDERHEAD ANGLE RADIUS	MARGIN	SEAT WIDTH	TOP OF HEAD	WEIGHT/GRAMS
EXTREME DUTY VALVES w/ TRIPLE GROOVE											
11631-8	Exh.	37.5mm	.2345	Stock	4.585	.380	25° x 11/32"	.080	.100	20° Dish	68
11633-8	Exh.	38.5mm	.2345	Stock	4.585	.380	25° x 11/32"	.080	.100	20° Dish	70
EXTREME DUTY VALVES w/ BEAD LOC® GROOVE											
11631B-8	Exh.	37.5mm	.2345	Stock	4.585	.395	25° x 11/32"	.080	.100	20° Dish	68
11633B-8	Exh.	38.5mm	.2345	Stock	4.585	.395	25° x 11/32"	.080	.100	20° Dish	70
RACE MASTER VALVES w/ TRIPLE GROOVE											
11630-8	Int.	34.0mm	.2355	Stock	4.620	.315	12° x 5/16"	.065	.100	8° Dish	53
11632-8	Int.	35.0mm	.2355	Stock	4.620	.4315	12° x 5/16"	.065	.100	8° Dish	54
RACE MASTER VALVES w/ BEAD LOC® GROOVE											
11630B-8	Int.	34.0mm	.2355	Stock	4.620	.330	12° x 5/16"	.065	.100	8° Dish	53
11632B-8	Int.	35.0mm	.2355	Stock	4.620	.330	12° x 5/16"	.065	.100	8° Dish	54

FORD 4.6L & 5.4L DOHC (4 VALVE)

RACE MASTER VALVES - Must use factory locks for triple grooves and use Manley's Bead Loc® P/N 13089-32 with the Bead Loc® single radius groove. These Manley valves are boxed in sets of 8 pieces. Please order two boxes of both intakes and exhausts to fit your engine.



PART#	TYPE	HEAD DIAMETER	STEM DIAMETER	INSTALLED HEIGHT	O/A LENGTH	TIP LENGTH	UNDERHEAD ANGLE RADIUS	MARGIN	SEAT WIDTH	TOP OF HEAD	WEIGHT/GRAMS
TRIPLE GROOVE											
11615-8	Exh.	30.0mm	.2740	Stock	4.587	.425	15° x 1/2"	.050	.080	9° Dish	53
11617-8	Exh.	31.0mm	.2740	Stock	4.587	.425	15° x 1/2"	.050	.080	9° Dish	55
11616-8	Int.	37.0mm	.2750	Stock	5.339	.620	10° x 3/8"	.045	.080	5° Dish	68
11618-8	Int.	38.0mm	.2750	Stock	5.339	.620	10° x 3/8"	.045	.080	5° Dish	70
BEAD LOC® GROOVE											
11615B-8	Exh.	30.0mm	.2740	Stock	4.587	.440	15° x 1/2"	.050	.080	9° Dish	53
11617B-8	Exh.	31.0mm	.2740	Stock	4.587	.440	15° x 1/2"	.050	.080	9° Dish	55
11616B-8	Int.	37.0mm	.2750	Stock	5.339	.635	10° x 3/8"	.045	.080	5° Dish	68
11618B-8	Int.	38.0mm	.2750	Stock	5.339	.635	10° x 3/8"	.045	.080	5° Dish	70



HIGH PERFORMANCE FORD MODULAR EDITION



FORD "COYOTE" 5.0L DOHC (4 VALVE)

RACE MASTER VALVES - Must use factory locks for triple grooves and use Manley's Bead Loc® P/N 13089-32 with the Bead Loc® single radius groove. These Manley valves are boxed in sets of 8 pieces. Please order two boxes of both intakes and exhausts to fit your engine.



PART#	TYPE	HEAD DIAMETER	STEM DIAMETER	INSTALLED HEIGHT	O/A LENGTH	TIP LENGTH	UNDERHEAD ANGLE RADIUS	MARGIN	SEAT WIDTH	TOP OF HEAD	WEIGHT/GRAMS
TRIPLE GROOVE											
11623-8	Exh.	31.0mm	.2345	Stock	4.274	.305	30° x 11/32"	.050	.080	25° Dish	44
11625-8	Exh.	31.5mm	.2345	Stock	4.274	.305	30° x 11/32"	.050	.080	25° Dish	45
11627-8	Exh.	32.0mm	.2345	Stock	4.274	.305	30° x 11/32"	.050	.080	25° Dish	46
11622-8*	Int.	37.0mm	.2355	Stock	4.722	.365	10° x 5/16"	.045	.080	5° Dish	54
11624-8*	Int.	37.5mm	.2355	Stock	4.722	.365	10° x 5/16"	.045	.080	5° Dish	55
11626-8*	Int.	38.0mm	.2355	Stock	4.722	.365	10° x 5/16"	.045	.080	5° Dish	56
BEAD LOC® GROOVE											
11623B-8	Exh.	31.0mm	.2345	Stock	4.274	.320	30° x 11/32"	.050	.080	25° Dish	44
11625B-8	Exh.	31.5mm	.2345	Stock	4.274	.320	30° x 11/32"	.050	.080	25° Dish	45
11627B-8	Exh.	32.0mm	.2345	Stock	4.274	.320	30° x 11/32"	.050	.080	25° Dish	46
11622B-8*	Int.	37.0mm	.2355	Stock	4.722	.380	10° x 5/16"	.045	.080	5° Dish	54
11624B-8*	Int.	37.5mm	.2355	Stock	4.722	.380	10° x 5/16"	.045	.080	5° Dish	55
11626B-8*	Int.	38.0mm	.2355	Stock	4.722	.380	10° x 5/16"	.045	.080	5° Dish	56

FORD "RAPTOR" 6.2L DOHC (2 VALVE)

RACE MASTER VALVES - Must use factory locks for triple grooves and use Manley's Bead Loc® P/N 13087-16 with the Bead Loc® single radius groove.



PART#	TYPE	HEAD DIAMETER	STEM DIAMETER	INSTALLED HEIGHT	O/A LENGTH	TIP LENGTH	UNDERHEAD ANGLE RADIUS	MARGIN	SEAT WIDTH	TOP OF HEAD	WEIGHT/GRAMS
TRIPLE GROOVE											
11611-8	Exh.	42.0mm	.3120	Stock	5.356	.110	25° x 7/16"	.060	.100	20° Dish	N/A
11613-8	Exh.	43.0mm	.3120	Stock	5.356	.110	25° x 7/16"	.060	.100	20° Dish	N/A
11610-8*	Int.	53.5mm	.3122	Stock	5.424	.110	12° x 5/16"	.050	.080	7° Dish	N/A
11612-8*	Int.	54.5mm	.3122	Stock	5.424	.110	12° x 5/16"	.050	.080	7° Dish	N/A
11612H-8*	Int.	54.5mm	.3122	Stock	5.424	.110	12° x 5/16"	.050	.080	7° Dish	N/A
BEAD LOC® GROOVE											
11611B-8	Exh.	42.0mm	.3120	Stock	5.356	.125	25° x 7/16"	.060	.100	20° Dish	N/A
11613B-8	Exh.	43.0mm	.3120	Stock	5.356	.125	25° x 7/16"	.060	.100	20° Dish	N/A
11610B-8*	Int.	53.5mm	.3122	Stock	5.424	.125	12° x 5/16"	.050	.080	7° Dish	N/A
11612B-8*	Int.	54.5mm	.3122	Stock	5.424	.125	12° x 5/16"	.050	.080	7° Dish	N/A
11612HB-8*	Int.	54.5mm	.3122	Stock	5.424	.125	12° x 5/16"	.050	.080	7° Dish	N/A

*Intakes have backcut - .050" x 30°

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COMP CAMS VALVE SPRINGS

	Part Number	O.D.	I.D.	Seat Load	Open Load	Coil Bind	Rate LBS/In	Max Lift	Tit Retainer	Steel Retainer
Top	26113	0.959	0.636	93@1.570	198@1.020	0.952	191	0.550	702 or 791	1723 or 700 or 792
Bottom	4.6L/5.4L 2v/3v	1.061	0.738							
Top	26125	1.103	0.650	120@1.640	275@1.040	0.970	258	0.650	702	700
Bottom	4.6L/5.4L 2v/3v	1.101	0.738							
Top	26123	0.943	0.580	90@1.470	252@.970	0.900	324	0.500	798	799
Bottom	4.6L 4V	1.105	0.742							



	Part Number	O.D.	I.D.	Seat Load	Open Load	Coil Bind	Rate LBS/In	Max Lift	Tit Retainer
Top	221427-16	1.02	0.542	95@1.68	240@1.130	1.080	264	0.580	23627-16
Bottom	4.6L/5.4L 2V	1.125	0.748						23667-16 +.060
Top	221437-16	1.03	0.642	125@1.680	265@1.130	1.080	255	0.580	23627-16
Bottom	4.6L/5.4L 2V	1.175	0.787						23667-16 +.060
Top	221429-24	0.88	0.642	95@1.670	230@1.170	1.100	270	0.500	23628-24
Bottom	4.6L/5.4L 3V	1.101	0.787						
Top	221433-24	1.103	0.650	110@1.670	260@1.090	1.020	258	0.580	23614-24
Bottom	4.6L/5.4L 3V	1.101	0.738						
Top	221434-32	1.016	0.640	95@1.420	268@.895	0.860	330	0.525	23627-32
Bottom	4.6L/5.4L 4V	1.126	0.750						23667-32 + .060

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**HIGH PERFORMANCE
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CAM PHASER LIMITER KITS

The COMP Cams® Cam Phaser Limiter Kits for the Chrysler Hemi, Ford Modular 3V and GM Gen IV VVT engines restrict the range of cam timing movement (14° for Chrysler, 20° for Ford and 22° for GM), thus providing the necessary valve clearance for serious performance cams with tighter lobe separations – all while utilizing the benefits of VVT technology. The Cam Phaser Limiters for the 2011+ Ford 5.0L 4V Ti-VCT engine limit the cam phasing to 25 crank degrees (12.5 cam degrees) while the cam phaser locks for that same engine allow fully adjustable locking over the OEM phaser range (50°). The resulting upper-RPM gains from using COMP Cams® Cam Phaser Limiters or Locks are some of the largest we've ever seen from a camshaft swap without sacrificing any bottom end or mid-range performance.

MAKE	DESCRIPTION	PART#
CHRYSLER	Chrysler Hemi Phaser Lock Kit	5760
	Chrysler Hemi Phaser Limiter Kit	5761
FORD	4.6L/5.4L Modular 3V Ford 2005+ Cam Phaser Limiter Kit	5449
	4.6L/5.4L Modular 3V Ford 2005+ Cam Phaser Limiter Tool	5446
	4.6L/5.4L Modular 3V Ford 2005+ Cam Phaser Limiter Spring Compressor	5447
	4.6L/5.4L Modular 3V Ford 2005+ Cam Phaser Limiter	5448
	5.0L DOHC Modular 4V V8 Ford 2011+ Adjustable Phaser Locks	5492
	5.0L DOHC Modular 4V V8 Ford 2011+ Adjustable Phaser Limiters	5493
GM LS	GM Gen IV 2007-08 Cam Phaser Limiter Kit	5456
	GM Gen IV 2007-08 Cam Phaser Limiter Tool	5454
	GM Gen IV 2007-08 Cam Phaser Limiter Spring Lock Tool	5455
	GM Gen IV 2007-08 Cam Phaser Limiter Plug	5457
	GM Gen IV 2009-Present Cam Phaser Limiter Kit	5460
	GM Gen IV 2009-Present Cam Phaser Limiter Tool	5454
	GM Gen IV 2009-Present Cam Phaser Limiter Spring Lock Tool	5455
	GM Gen IV 2009-Present Cam Phaser Limiter Plug	5459



FORD 4.6/5.4L SOH C AND DOH C ADJUSTABLE CAM GEAR SET

DESCRIPTION	PART#
4.6/5.4L SOHC/DOHC Cam Gear Set	10254





FORD MODULAR ROCKER ARMS

APPLICATION	PART #	DESCRIPTION
93-05 4.6L, 99-12 5.4L	FMS-M6529-MSVT	Roller Rocker arms with extruded aluminum body and needle bearing fulcrum



APPLICATION	PART #	DESCRIPTION
4.6L, 5.4L, 2V and 4V	TFS-51800510	OE Style Hardened Steel Roller Followers
4.6L 3V Engines only	TFS-51800610	OE Style Hardened Steel Roller Followers



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FORD 4.6L & 5.4L SOHC MODULAR 2 VALVE 8 CYL. 1991-PRESENT

XTREME ENERGY™ HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAM PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT W/ 1.825 ROCKER	
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.
SOHC – Excellent upgrade from stock cam. Improved torque and power. Works with stock computer, best with custom tuning. Smooth idle.	Hyd.	Hyd.	1200 to 5200	102100*	XE262H	262	270	224	232	.500	.500
SOHC – Mild street performance, 3.23-3.55 gears. Good torque & power. Noticeable idle. Requires custom tuning.	Hyd.	Hyd.	1600 to 5600	102200*	XE268H	268	274	230	236	.500	.500
SOHC – Hot street, 3.55-3.73 gears, 2000+ stall. Requires custom tuning. Rough idle.	Hyd.	Hyd.	2000 to 6000	102300*	XE274H	274	278	236	240	.500	.500
SOHC – Excellent torque. Better low & mid-range torque with more power. Works with stock computer, best with custom tuning.	Hyd.	Hyd.	1400 to 5400	102500*	XE262AH	262	266	226	230	.550	.550
SOHC – Hot street cam, needs higher gear ratio. 2000+ stall Intake, exhaust, computer upgrade recommended. Noticeable idle. Requires custom tuning	Hyd.	Hyd.	1800 to 5800	102600*	XE270AH	270	274	234	238	.550	.550
SOHC – Street/strip, needs higher gear ratio, 2400+ stall. Intake, exhaust, requires custom tuning. Rough idle.	Hyd.	Hyd.	2200 to 6200	102700*	XE278AH	278	282	242	246	.550	.550

XTREME ENERGY™ BLOWER HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

SOHC – Good torque with powerful mid-range when using a blower. Requires custom tuning.	Hyd.	Hyd.	1600 to 5600	102560*	XE262BH-16	262	266	226	230	.550	.550
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TRI-POWER XTREME™ HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

SOHC – Optimized fuel mileage with good torque & horsepower. Requires tuning.	Hyd.	Hyd.	800 to 4800	102525*	TPX248HR-16	247	257	212	222	.484	.475
SOHC – Exceptional torque with good horsepower & good fuel economy. Requires tuning.	Hyd.	Hyd.	1000 to 5000	102530*	TPX254HR-15	253	261	218	226	.484	.475
SOHC – Optimized combination for power & torque with acceptable fuel economy for daily driver or highway cruiser. Requires tuning.	Hyd.	Hyd.	1200 to 5200	102535*	TPX262HR-14	261	267	224	230	.495	.495

FORD 4.6L & 5.4L SOHC MODULAR 3 VALVE 8 CYL. 2004-PRESENT

XFI™ NSR (NO SPRINGS REQUIRED) HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS SOHC – GREAT UPGRADE FOR STOCK ENGINE. SOLID POWER

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAM PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT W/ 1.825 ROCKER	
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.
SOHC – Great upgrade for stock engine. Solid power gains above 4700 RPM, compatible with stock springs. Works with stock tune.	Hyd.	Hyd.	750 to 6200	127050	XE253LH-14	253	270	214	227	.450	.450
SOHC – Solid power gains above 4900 RPM, compatible with stock springs. Works with stock tune. Best with 3.73 gear & 2500 stall. Great idle.	Hyd.	Hyd.	750 to 6400	127200	XE261LH-15.5	261	278	222	235	.450	.450

NOTES: * Requires aftermarket valve springs/retainers.

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HIGH PERFORMANCE FORD MODULAR EDITION



FORD 4.6L & 5.4L SOHC MODULAR 2 VALVE 8 CYL. 1991-PRESENT

XTREME ENERGY™ HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

LOBE SEP. ANGLE	K-KIT	SK-KIT	CL-KIT	RP-KIT	LIFTERS	CAM GEAR SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	RETAINERS	VALVE LOCKS	VALVE SEALS
114°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26113-16 26125-16	792-16 791-16	N/A	N/A
114°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26113-16 26125-16	792-16 791-16	N/A	N/A
114°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26113-16 26125-16	792-16 791-16	N/A	N/A
113°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26113-16 26125-16	792-16 791-16	N/A	N/A
113°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26113-16 26125-16	792-16 791-16	N/A	N/A
113°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26113-16 26125-16	792-16 791-16	N/A	N/A

XTREME ENERGY™ BLOWER HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

116°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26113-16	792-16 791-16	N/A	N/A
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TRI-POWER XTREME™ HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

116°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26113-16 26125-16	792-16 791-16	N/A	N/A
115°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26113-16 26125-16	792-16 791-16	N/A	N/A
114°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26113-16 26125-16	792-16 791-16	N/A	N/A

FORD 4.6L & 5.4L SOHC MODULAR 3 VALVE 8 CYL. 2004-PRESENT

XFI™ NSR (NO SPRINGS REQUIRED) HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS SOHC – GREAT UPGRADE FOR STOCK ENGINE. SOLID POWER

LOBE SEP. ANGLE	K-KIT	SK-KIT	CL-KIT	RP-KIT	LIFTERS	PHASER LIMITER KIT	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	RETAINERS	VALVE LOCKS	VALVE SEALS
114°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	N/A	N/A	N/A	N/A
115.5°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	N/A	N/A	N/A	N/A



HIGH PERFORMANCE FORD MODULAR EDITION



FORD 4.6L & 5.4L SOHC MODULAR 3 VALVE 8 CYL. 2004-PRESENT

XFI™ NSR (NO SPRINGS REQUIRED) BLOWER HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAM PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT W/ 1.825 ROCKER	
	IN.	EX.				ADVERTISED IN.	EX.	@ .050% IN.	EX.	IN.	EX.
SOHC – Excellent mid-range cam for bolt-on blowers with stock boost levels. Great power gains above 4700 RPM, compatible with stock springs. Best with stock gears. Works with stock tune.	Hyd.	Hyd.	750 to 6200	127055	XE253LH-15	253	274	214	231	.450	.450
SOHC – Mid to upper range for bolt-on blowers running higher boost psi. Major power gains above 4900 RPM, compatible with stock springs. Best with 3.73+ gears & 2500 stall. Great idle. Works with stock tune.	Hyd.	Hyd.	750 to 6400	127205	XE261LH-16.5	261	278	222	235	.450	.450

THUMPR™ NSR (NO SPRINGS REQUIRED) HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAM PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT W/ 1.825 ROCKER	
	IN.	EX.				ADVERTISED IN.	EX.	@ .050% IN.	EX.	IN.	EX.
SOHC – Thumpr™ – Great idle with excellent power. Good mid-range torque & power gains above 4500RPM. Compatible with stock valve springs, converter & gears; requires cam phaser upgrade and custom tuning.	Hyd.	Hyd.	750 to 6400	127010*	TH265LL-9	265	298	226	246	.450	.450
SOHC – Mutha' Thumpr™ – Very rough idle, biggest cam for stock heads. Great power above 4900 RPM. Compatible with stock valve springs, benefits from converter & gears, requires cam phaser upgrade & custom tuning.	Hyd.	Hyd.	750 to 6600	127020*	MT273LL-9	273	306	234	254	.450	.450
SOHC – Big Mutha' Thumpr™ – Extremely rough idle, needs stroker motor and/or ported heads. Major hp gains to 6800 RPM. Best with 3.73+ gears and 2500 stall. Compatible with stock valve springs, requires cam phaser upgrade.	Hyd.	Hyd.	750 to 6800	127030*	BT281LL-9	281	314	242	262	.450	.450

XFI™ VSR (VALVE SPRINGS REQUIRED) HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

SOHC – Great upgrade over stock. Solid power gains above 4400 RPM, requires spring upgrade. Stock gears & converter OK. Recommend custom tuning.	Hyd.	Hyd.	850 to 6200	127100	XE253H-14	253	270	214	227	.480	.470
SOHC – Serious street cam, noticeable idle. Solid power gains above 4600 RPM, requires spring upgrade. Works with tuners, recommend custom tuning. Best with 3.90 gears and 3000 stall.	Hyd.	Hyd.	950 to 6400	127300	XE261H-15.5	261	278	222	235	.490	.480

XFI™ VSR (VALVE SPRINGS REQUIRED) BLOWER HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

SOHC – Powerful mid-RPM range cam for bolt-on blowers at stock boost levels. Solid power gains above 4400 RPM, requires spring upgrade. Stock gears & converter OK. Requires custom tuning.	Hyd.	Hyd.	850 to 6200	127150	XE253H-15	253	274	214	231	.480	.475
SOHC – Mid to upper range cam for bolt-on blowers with high boost. Noticeable idle, solid power gains above 4900 RPM, requires spring upgrade. Best with 3000+ stall. Requires custom tuning.	Hyd.	Hyd.	950 to 6400	127350	XE261H-16.5	261	282	222	239	.490	.485

NOTES: * Requires cam phaser limiter kit (Part #5449)

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FORD 4.6L & 5.4L SOHC MODULAR 3 VALVE 8 CYL. 2004-PRESENT

XFITM [™] NSR (NO SPRINGS REQUIRED) BLOWER HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS												
LOBE SEP. ANGLE	K-KIT	SK-KIT	CL-KIT	RP-KIT	LIFTERS	PHASER LIMITER KIT	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	RETAINERS	VALVE LOCKS	VALVE SEALS
115°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	N/A	N/A	N/A	N/A
116.5°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	N/A	N/A	N/A	N/A
THUMPR [™] NSR (NO SPRINGS REQUIRED) HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS												
LOBE SEP. ANGLE	K-KIT	SK-KIT	CL-KIT	RP-KIT	LIFTERS	PHASER LIMITER KIT	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RETAINERS	TITANIUM RETAINERS	VALVE SEALS
109°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	N/A	N/A	N/A	N/A
109°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	N/A	N/A	N/A	N/A
109°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	N/A	N/A	N/A	N/A
XFITM [™] VSR (VALVE SPRINGS REQUIRED) HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS												
114°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	26113-24 26125-24	700-24	702-24	N/A
115.5°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	26113-24 26125-24	700-24	702-24	N/A
XFITM [™] VSR (VALVE SPRINGS REQUIRED) BLOWER HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS												
115°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	26113-24 26125-24	700-24	702-24	N/A
116.5°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	26113-24 26125-24	700-24	702-24	N/A



HIGH PERFORMANCE FORD MODULAR EDITION



FORD 4.6L & 5.4L SOHC MODULAR 3 VALVE 8 CYL. 2004-PRESENT

XFI™ SPR (SPRING & PHASER MODS REQUIRED) HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAM PART NUMBER	CAM GRIND NUMBER	DURATION @ .050%				VALVE LIFT W/ 1.825 ROCKER	
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.
SOHC – Powerful cam with great idle, excellent upgrade over stock. Good torque down low with powerful mid-range. Solid power gains above 4500 RPM, requires spring & phaser upgrade. Requires custom tuning. Stock gears & converter ok.	Hyd.	Hyd.	900 to 6700	127400*	XE256PH-12	256	267	221	228	.523	.538
SOHC – Powerful cam with very rough idle, biggest cam to use with stock heads. Good midrange torque with incredible top end hp gains. Solid power above 4700 RPM, spring and phaser upgrade required. 3.90+ gears & 3000+ stall. Requires custom tuning.	Hyd.	Hyd.	950 to 6900	127500*	XE264PH-12	264	275	229	236	.535	.550
SOHC – Max effort street/strip cam with very rough idle, needs ported heads. Good midrange with incredible power up to 7000+ RPM. Solid power gains above 4900 RPM, requires spring and phaser upgrade. Custom tuning required. 4.10+ gears and 3200+ stall.	Hyd.	Hyd.	1000 to 7100	127600*	XE272PH-12	272	283	237	244	.547	.560

XFI™ SPR (SPRING & PHASER MODS REQUIRED) BLOWER HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAM PART NUMBER	CAM GRIND NUMBER	DURATION @ .050%				VALVE LIFT W/ 1.825 ROCKER	
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.
SOHC – Powerful cam with great idle, excellent upgrade over stock. Good torque down low with powerful mid-range. Solid power gains above 4500 RPM, requires spring & phaser upgrade. Requires custom tuning. OK with stock gears.	Hyd.	Hyd.	900 to 6700	127450*	XE264PH-13	264	279	229	240	.535	.555
SOHC – Big power gains in mid to upper RPM range for bolt-on blowers with high boost. Rough idle, solid power gains above 4900 RPM, requires spring and phaser upgrade. Requires custom tuning. Best with 3.90+ gears and 3000+ stall.	Hyd.	Hyd.	950 to 6900	127550*	XE272PH-13	272	287	237	248	.547	.560
SOHC – Max effort blower cam with very rough idle, needs ported heads. Great mid-range power with incredible gains up to 7000+ RPM. Solid power gains above 4900 RPM, requires spring & phaser upgrade. Requires custom tuning. 4.10+ gears and 3200+ stall.	Hyd.	Hyd.	1000 to 7100	127650*	XE280PH-13	280	295	245	256	.559	.560

NOTES: * Requires cam phaser limiter kit (Part #5449)



FORD 4.6L & 5.4L SOHC MODULAR 3 VALVE 8 CYL. 2004-PRESENT

XF1™ SPR (SPRING & PHASER MODS REQUIRED) HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS												
LOBE SEP. ANGLE	K-KIT	SK-KIT	CL-KIT	RP-KIT	LIFTERS	PHASER LIMITER KIT	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RETAINERS	TITANIUM RETAINERS	VALVE SEALS
112°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	26113-24 26125-24	700-24	702-24	N/A
112°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	26113-24 26125-24	700-24	702-24	N/A
112°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	26125-24	700-24	702-24	N/A
XF1™ SPR (SPRING & PHASER MODS REQUIRED) BLOWER HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS												
LOBE SEP. ANGLE	K-KIT	SK-KIT	CL-KIT	RP-KIT	LIFTERS	PHASER LIMITER KIT	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	RETAINERS	VALVE LOCKS	VALVE SEALS
113°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	26125-24	700-24	702-24	N/A
113°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	26125-24	700-24	702-24	N/A
113°	N/A	N/A	N/A	N/A	N/A	5449	N/A	N/A	26125-24	700-24	702-24	N/A

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HIGH PERFORMANCE FORD MODULAR EDITION



FORD 4.6L & 5.4L DOHC MODULAR 4 VALVE 8 CYL. 1993-PRESENT

XTREME RPM SERIES HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAM PART NUMBER	CAM GRIND NUMBER	DURATION @ .050%				VALVE LIFT W/ 1.825 ROCKER	
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.
DOHC – Excellent replacement cam with strong torque. Requires custom tuning.	Hyd.	Hyd.	1000 to 5000	106060*	XE254BH-116	253	253	218	218	.425	.425
DOHC – Great street performance with excellent torque & HP gains with noticeable idle. Requires custom tuning.	Hyd.	Hyd.	1200 to 5400	106100*	XE262AH-114	261	257	226	222	.425	.425
DOHC – Serious street effort with maximum power gains in mid to upper RPM. Requires computer modifications & lower gears. Automatic cars need a 2000+ stall. Requires custom tuning. Mild rough idle.	Hyd.	Hyd.	1500 to 6000	106160*	XE266BH-116	265	265	230	230	.425	.425
DOHC – Street and strip performance. Needs lower gears, exhaust upgrades, larger throttle body and mass air, bigger fuel injectors and a 2200+ stall with automatics. Requires custom tuning. Rough idle.	Hyd.	Hyd.	1800 to 6200	106200*	XE270AH-114	269	265	234	230	.425	.425

XTREME XE-R SERIES HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

DOHC – Street performance with excellent torque in normally aspirated engines. Requires custom tuning. Noticeable idle.	Hyd.	Hyd.	1500 to 5800	106300*	XE262AH-114	261	259	226	224	.475	.450
DOHC – Hot performance with serious HP & torque gains. Recommended lower gears, requires custom tuning, larger throttle body, mass air, injectors & exhaust upgrades. Automatics use 2200+ stall. Rough idle.	Hyd.	Hyd.	1800 to 6200	106400*	XE270BH-114	269	267	234	232	.475	.450
DOHC – Race or limited street use. Cams require a larger throttle body, mass air, injectors, exhaust upgrades & requires custom tuning. Automatics need a 3000+ stall. Very rough idle.	Hyd.	Hyd.	2200 to 6500	106500*	XE278AH-114	277	275	242	240	.475	.450

XE-R SUPERCHARGED & NITROUS SERIES HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

DOHC – Street performance w/ excellent torque. Works well in supercharged or nitrous engines. Requires custom tuning.	Hyd.	Hyd.	1200 to 5800	106260**	XE258BH-116	257	259	222	224	.475	.450
DOHC – Serious street effort for supercharged or nitrous applications. Requires custom tuning & lower gears. Automatics require 2000+ stall. Mild rough idle.	Hyd.	Hyd.	1500 to 6000	106360**	XE266BH-116	265	267	230	232	.475	.450
DOHC – Max strip/street cams for centrifugal supercharged or nitrous engines. Large gains in power with larger throttle body, mass air, injectors and exhaust upgrades. Requires lower gears and custom tuning. Automatics use a 2500+ stall. Features a rough idle.	Hyd.	Hyd.	2000 to 6400	106460**	XE274BH-116	273	275	238	240	.475	.450

NOTES: * Requires aftermarket valve springs/retainers. ** Requires cam gear set (#10254), and aftermarket valve springs/retainers.

HIGH PERFORMANCE FORD MODULAR EDITION



FORD 4.6L & 5.4L DOHC MODULAR 4 VALVE 8 CYL. 1993-PRESENT

XTREME RPM SERIES HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

LOBE SEP. ANGLE	K-KIT	SK-KIT	CL-KIT	RP-KIT	LIFTERS	CAM GEAR SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	RETAINERS	VALVE LOCKS	VALVE SEALS
116°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26123-32	799-32 798-32	N/A	N/A
114°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26123-32	799-32 798-32	N/A	N/A
116°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26123-32	799-32 798-32	N/A	N/A
114°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26123-32	799-32 798-32	N/A	N/A

XTREME XE-R SERIES HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

114°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26123-32	799-32 798-32	N/A	N/A
114°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26123-32	799-32 798-32	N/A	N/A
114°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26123-32	799-32 798-32	N/A	N/A

XE-R SUPERCHARGED & NITROUS SERIES HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS

116°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26123-32	799-32 798-32	N/A	N/A
116°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26123-32	799-32 798-32	N/A	N/A
116°	N/A	N/A	N/A	N/A	N/A	10254	N/A	N/A	26123-32	799-32 798-32	N/A	N/A

NOTES : 1. For 5.4L GT500 applications, you MUST use these REQUIRED parts: 26125-16 valve springs & either 792-16 steel or 791-16 titanium retainers for the intake AND 26123-16 valve springs & either 799-16 steel or 798-16 titanium retainers for the exhaust. These are available in kit form that includes springs and retainers: Part #GT500ST-KIT (steel retainers) and #GT500TI-KIT (titanium retainers).
2. For 5.4L GT500 applications, you MUST use these REQUIRED parts: 26125-16 valve springs & either 792-16 steel or 791-16 titanium retainers for the intake AND 26123-16 valve springs & either 799-16 steel or 798-16 titanium retainers for the exhaust. These are available in kit form that includes springs and retainers: Part #GT500ST-KIT (steel retainers) and #GT500TI-KIT (titanium retainers).



HIGH PERFORMANCE FORD MODULAR EDITION



FORD COYOTE 5.0L DOHC MODULAR 4 VALVE 8 CYL. 2011-PRESENT

XFI™ NSR (NO SPRINGS REQUIRED) HYDRAULIC ROLLER SWINGING/FINGER FOLLOWER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAM PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT W/ 1.825 ROCKER	
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.
DOHC – Great upgrade over stock. Good power gains above 4500 RPM. Requires custom ECU programming.	Hyd.	Hyd.	1500 to 6800	191060*	F5.0D NSR-NA1H-126	260	267	220	223	.492	.453
DOHC – Big power gains in mid to upper RPM range, especially above 4900 RPM. Requires custom ECU programming.	Hyd.	Hyd.	1700 to 7000	191100*	F5.0D NSR-NA2H-126	268	275	228	231	.492	.453
DOHC – Max effort street/strip cam set. Strong power gains above 5500-7200+. Full length headers & 3.73+ gear. Requires custom ECU programming.	Hyd.	Hyd.	1900 to 7200	191160*	F5.0D NSR-NA3H-126	276	283	236	239	.492	.453

XFI™ NSR (NO SPRINGS REQUIRED) BLOWER HYDRAULIC ROLLER SWINGING/FINGER FOLLOWER CAMSHAFTS

DOHC – Great upgrade over stock cams with bolt-on blowers and standard boost levels. Requires custom ECU programming.	Hyd.	Hyd.	1500 to 6900	191260*	F5.0D NSR-BL1H-128	260	271	220	227	.492	.453
DOHC – Big power gains in mid to upper RPM range for blower kits with higher boost. Requires custom ECU programming.	Hyd.	Hyd.	1700 to 7100	191360*	F5.0D NSR-BL2H-128	268	279	228	235	.492	.453
DOHC – Max effort street/strip cam set. Best choice when running higher boost levels and high RPM in modified engines. Requires ECU programming.	Hyd.	Hyd.	2000 to 7300	191460*	F5.0D NSR-BL3H-128	276	287	236	243	.492	.453

NOTES: * Requires cam phaser limiter kit (Part #5493) or optional cam phaser lock kit (#5492) for race applications.

** This is the effective Lobe Separation Angle (LSA) with intake and exhaust cams in their resting or “parked” positions. When using these cams with the required COMP Cams® Phaser Limiter Kit, this is the MAXIMUM effective LSA but when running they can be tuned TIGHTER by as much as 40°.

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FORD COYOTE 5.0L DOHC MODULAR 4 VALVE 8 CYL. 2011-PRESENT

XFI™ NSR (NO SPRINGS REQUIRED) HYDRAULIC ROLLER SWINGING/FINGER FOLLOWER CAMSHAFTS												
LOBE SEP. ANGLE	K-KIT	SK-KIT	CL-KIT	RP-KIT	LIFTERS	CAM PHASER LIMITER SET	CAM PHASER LOCK KIT	PUSHRODS	VALVE SPRINGS	RETAINERS	VALVE LOCKS	VALVE SEALS
126°	N/A	N/A	N/A	N/A	N/A	5493	5492	N/A	N/A	N/A	N/A	N/A
126°	N/A	N/A	N/A	N/A	N/A	5493	5492	N/A	N/A	N/A	N/A	N/A
126°	N/A	N/A	N/A	N/A	N/A	5493	5492	N/A	N/A	N/A	N/A	N/A
XFI™ NSR (NO SPRINGS REQUIRED) BLOWER HYDRAULIC ROLLER SWINGING/FINGER FOLLOWER CAMSHAFTS												
128°	N/A	N/A	N/A	N/A	N/A	5493	5492	N/A	N/A	N/A	N/A	N/A
128°	N/A	N/A	N/A	N/A	N/A	5493	5492	N/A	N/A	N/A	N/A	N/A
128°	N/A	N/A	N/A	N/A	N/A	5493	5492	N/A	N/A	N/A	N/A	N/A





HIGH PERFORMANCE FORD MODULAR EDITION



CAMSHAFTS

FORD MODULAR V8 • 4.6L-5.4L SOHC 2-VALVE 1991-2005 WITH PERF. IMPROVEMENT HEADS

HYDRAULIC ROLLER CAMSHAFTS													
CAM PART #	CAM & LIFTER SET PART #	DURATION ADVERTISED		DURATION @.050		VALVE LIFT w/1.70 Rockers		LOB SEPARATION ANGLE	INTAKE CENTERLINE	VALVE LASH		NOTES	
		IN.	EX.	IN.	EX.	IN.	EX.			IN.	EX.		
276063-16	NA	257	262	220	224	.548	.548	116	112	Hyd.	Hyd.	1,8,12	
800-4800 Everyday Street, good all around performance with increase in power.													
276823-14	NA	262	265	224	228	.548	.548	114	110	Hyd.	Hyd.	1,8,12	
1200-5200 Street performance, Increase in low to mid range torque and more power.													
276363-16	NA	290	297	232	240	.548	.548	116	112	Hyd.	Hyd.	1,8,12	
1500-5500 Street/Strip with supercharger. Need good parts all around. 2500+ Stall.													
276393-14	NA	272	272	234	234	.593	.593	114	110	Hyd.	Hyd.	1,8,12	
1600-5600 High Performance Street, good low to mid range torque. Needs 1800+ stall & gears.													
276623-14	NA	272	274	234	236	.548	.548	114	110	Hyd.	Hyd.	1,8,12	
1800-6600 Nice idle, Hot Street, nice increase in mid range performance. Needs 2000+ stall & gears.													
276263-13	NA	274	278	236	240	.593	.593	113	109	Hyd.	Hyd.	1,8,12	
2000-6200 Fair idle, Street/Strip, Nice mid range. 2200+ stall, better intake & exhaust.													
276203-14	NA	275	280	238	242	.593	.593	114	110	Hyd.	Hyd.	1,8,12	
2000-6600 Fair idle, Street/Strip, Good mid range. 2200+ stall, better intake & exhaust.													
276883-14	NA	280	284	242	246	.593	.593	114	110	Hyd.	Hyd.	1,8,12	
2200-6800 Rough idle Hot Street/Strip, Needs better intake, exhaust, 2500+ stall & gears.													
276733-14	NA	284	284	246	246	.593	.593	114	110	Hyd.	Hyd.	1,8,12	
2400-7000 Rough idle Pro Street/Brackets, Needs better intake, exhaust, 2800+ stall & gears.													
279993	NA	Custom Grind Camshaft									Hyd.	Hyd.	1,8,12

Hydraulic Roller Special Order Camshaft.

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HIGH PERFORMANCE FORD MODULAR EDITION



CAMSHAFTS

FORD MODULAR V8 • 4.6L DOHC 4-VALVE 1993-PRESENT



HYDRAULIC ROLLER CAMSHAFTS												
CAM PART #	CAM & LIFTER SET PART #	DURATION ADVERTISED		DURATION @.050		VALVE LIFT w/1.70 Rockers		LOB SEPARATION ANGLE	INTAKE CENTERLINE	VALVE LASH		NOTES
		IN.	EX.	IN.	EX.	IN.	EX.			IN.	EX.	
276244-14	NA	264	269	210	216	.450	.450	114	112	Hyd.	Hyd.	1,9,12
800-6400 Smooth idle, High low end torque. Can use stock converter.												
276584-14	NA	275	275	222	222	.450	.450	114	112	Hyd.	Hyd.	1,9,12
1200-6600 Mild idle, Street Performance, Excellent low to mid range torque.												
276414-14	NA	282	282	228	228	.475	.475	114	112	Hyd.	Hyd.	1,9,12
1500-6800 Lopey idle, Hot Street, Strong mid range with top end increase. 2000+ stall & gears.												
276074-14	NA	282	285	236	234	.475	.475	114	112	Hyd.	Hyd.	1,9,12
1800-7000 Rough idle, Street/Strip. Needs 2400+ stall, larger throttle body & better exhaust.												
276814-14	NA	290	297	236	242	.475	.475	114	112	Hyd.	Hyd.	1,9,12
2000-7000 Pro Street/Strip with supercharger. Need good parts all around. 2500+ Stall.												
279994	NA	Custom Grind Camshaft								Hyd.	Hyd.	1,9,12
Hydraulic Roller Special Order Camshaft.												

FORD MODULAR V8 • 4.6L-5.4L SOHC 3-VALVE 1995-PRESENT

HYDRAULIC ROLLER CAMSHAFTS												
CAM PART #	CAM & LIFTER SET PART #	DURATION ADVERTISED		DURATION @.050		VALVE LIFT w/1.70 Rockers		LOB SEPARATION ANGLE	INTAKE CENTERLINE	VALVE LASH		NOTES
		IN.	EX.	IN.	EX.	IN.	EX.			IN.	EX.	
276745-14	NA	269	282	216	228	.450	.450	114	100	Hyd.	Hyd.	8,12
2200-5400 Street Performance. Good power gains over stock. Good mid range torque.												
276095-14	NA	269	285	216	232	.475	.475	114	100	Hyd.	Hyd.	1,8,12
2200-5600 Hot Street, Great mid range torque. Supercharger/NOS OK.												
276935-14	NA	273	289	220	236	.450	.450	114	100	Hyd.	Hyd.	8,12
2400-5800 High Performance Street, good power gains above 4500 rpm. Best with 2500+ stall.												
276175-14	NA	273	289	220	236	.475	.475	114	100	Hyd.	Hyd.	1,8,12
2400-5800 High Performance Street, good power gains above 4500 rpm. Best with 2500+ stall.												
276855-14	NA	275	289	222	236	.490	.490	114	100	Hyd.	Hyd.	1,8,12
2500-6000 Mild idle, Hot Street, good all around performance with power gains over 4800 rpm.												
276475-15	NA	275	301	222	248	.475	.475	115	101	Hyd.	Hyd.	1,8,12
2500-6200 Street/Strip, good mid to top end power. 2500+ stall recommended.												
279995	NA	Custom Grind Camshaft								Hyd.	Hyd.	1,8,12
Hydraulic Roller Special Order Camshaft.												

Some items are not legal for sale or use on any pollution controlled motor vehicle



HIGH PERFORMANCE FORD MODULAR EDITION

Trick of Flow[®] Specialties

CAMSHAFTS

Track Max[®] Hydraulic Roller Camshafts & Valve Spring Upgrade Kits for Ford 4.6L/5.4L 2V



Improve the performance of Ford 4.6L or 5.4L 2Vs with Trick Flow's Track Max camshafts. Choose the smaller cams for increased low- to mid-range torque and horsepower in naturally aspirated, mild street/strip cars. The bigger cams will move the power curve up in the rpm range and are ideal for extreme duty street and race forced induction engines. All cams include new 12mm bolts and washers. Trick Flow can bundle your cams with the appropriate valve spring upgrade kit for more performance gains. Option 1 includes Trick Flow's standard Twisted Wedge beehive-style springs that provide 90 lbs. of seat pressure at 1.570" installed height, 205 lbs. at 1.020" open, and a maximum lift of .600". Option 2 includes Twisted Wedge Track Heat beehive valve springs with 125 lbs. of seat pressure at 1.600" installed height, 275 lbs. at 1.020" open, and a maximum lift of .580". The kits come complete with valve springs, chromoly retainers, locks, seals, and instructions.

CAMSHAFT SPECIFICATIONS				
PART #	DESCRIPTION	DURATION @ .050"	Valve Lift w/OEM Followers	Lobe Sep.
TFS-51802001	Street/strip; fair idle, strong midrange power & torque, 1,500-5,000 rpm powerband. Works with stock PI heads or Trick Flow Twisted Wedge 185 Series heads; tuning recommended for maximum performance. Piston-to-valve clearance measurement recommended. Compression: stock.	228°/230°	.550"/.550"	112°
TFS-51802002	Street/strip; fair idle, strong mid to top-end power, 1,800-6,500 rpm powerband. Works with stock PI heads or Trick Flow Twisted Wedge 185 Series heads; tuning recommended for maximum performance. 3.73 or numerically higher gear. Piston-to-valve clearance measurement required. Compression: stock minimum.	234°/234°	.580"/.580"	114°

CAMSHAFT AND VALVE SPRING UPGRADE KIT SPECIFICATIONS					
PART #	DESCRIPTION	DURATION @ .050"	Valve Lift w/OEM Followers	Lobe Sep.	Valve Springs
TFS-K51802001	Street/strip; fair idle, strong midrange power and torque, 1,500-5,000 rpm powerband. Works best with stock PI heads or Trick Flow Twisted Wedge 185 Series heads; tuning recommended for maximum performance. Piston-to-valve clearance measurement recommended. Compression: stock.	228°/230°	.550"/.550"	112°	Twisted Wedge (90 lbs. seat pressure)
TFS-K51802002	Street/strip; fair idle, strong mid- to top-end power, 1,800-6,500 rpm powerband. Ideal for mild street/strip engines with power adders up to 5-6 psi. Works best with stock PI heads or Trick Flow Twisted Wedge 185 Series heads; tuning recommended for maximum performance. 3.73 or numerically higher gear. Piston-to-valve clearance measurement required. Compression: stock minimum.	234°/234°	.580"/.580"	114°	Twisted Wedge (90 lbs. seat pressure)
TFS-K51802003	Race; fair idle, strong top-end power, 1,500-6,500 rpm plus powerband. Works best with Trick Flow Twisted Wedge 185 or 195 Series heads; tuning recommended for maximum performance. 3.73 or numerically higher gear. Piston-to-valve clearance measurement recommended. Compression: stock minimum.	228°/230°	.550"/.550"	112°	Twisted Wedge Track Heat (125 lbs. seat pressure)
TFS-K51802004	Race; fair idle, strong top-end power, 6,500 rpm plus powerband. Ideal for extreme duty street/strip and race engines with power adders rated at 15 psi-plus. Works best with Trick Flow Twisted Wedge 185 or 195 Series heads; tuning recommended for maximum performance. 3.73 or numerically higher gear. Piston-to-valve clearance measurement required. Compression: stock minimum.	234°/234°	.580"/.580"	114°	Twisted Wedge Track Heat (125 lbs. seat pressure)



VALVE SPRING UPGRADE KITS

Track Max® Valve Spring & Valve Spring Upgrade Kits for Ford 4.6L/5.4L 2V

Trick Flow's Track Max Twisted Wedge valve spring upgrade kit is perfect for mildly modified Ford modular engines. The kit includes .940"/1.050" o.d. beehive valve springs with a 209 lb. spring rate (90 lbs. seat pressure at 1.600" installed height) and maximum lift rating of .600", plus chromoly retainers, locks, seals, and instructions. The Track Max Twisted Wedge Track Heat spring upgrade kit is recommended for engines with power adders and/or other high rpm applications. It includes 1.000"/1.600", 275 lb. beehive springs (125 lbs. seat pressure at 1.600" installed height) with a maximum lift rating of .580" and chromoly retainers, locks, seals, and instructions. The Track Max Twisted Wedge Race spring upgrade kit is designed for extreme performance applications—"big bore" builds, superchargers and turbos, high compression E85, big shot nitrous oxide, and other high power combinations. With this kit you receive sixteen 1.100" diameter dual valve springs with a 233 lb. spring rate (150 lbs. seat pressure at 1.500" installed height) for use with cams up to .650" valve lift, chromoly retainers, locks, seals, and instructions.

PART #	DESCRIPTION
TFS-2500500	Twisted Wedge valve spring upgrade kit, fits one pair of OEM Ford 4.6L/5.4L 2V cylinder heads, each
TFS-2500525	Twisted Wedge Track Heat valve spring upgrade kit, fits one pair of OEM Ford 4.6L/5.4L 2V cylinder heads, each
TFS-2500526	Twisted Wedge Race valve spring upgrade kit, fits one pair of modified OEM Ford 4.6L/5.4L 2V or upgrades Trick Flow Twisted Wedge 185 cylinder heads to Twisted Wedge Track Heat 185 specifications, each

Valve Spring Compressor for Ford 4.6L/5.4L 2V/4V

If you work on Ford modular engines, then you need Trick Flow's valve spring compressor. A must for servicing valve springs, retainers, camshafts, and valve seals, this specially made tool can remove the valve springs with the camshafts in the heads—even while they're on the engine.



TFS-90518

PART #	DESCRIPTION
TFS-90518	Valve spring compressor, Ford 4.6L/5.4L 2V/4V, each



TFS-2500500

Valve Spring Change Accessory Kit



Originally engineered just for valve spring replacement on Ford 4.6L/5.4L 2V and 4V modular engines, Trick Flow's valve spring change accessory kit now works on all engines. The accessory kit includes a valve seal installer, magnetic pen, and an extended air hose adapter for putting air into the cylinder to keep the valves closed during service.

TFS-90520

PART #	DESCRIPTION
TFS-90520	Valve spring change accessory kit, universal, each

Cam Degree Supplement Kit for Ford 4.6L/5.4L 2V/4V

Trick Flow's cam degree kit is perfect for accurately degreasing a camshaft when an engine is mounted on a stand. However, the kit is a little tricky to use when the engine is in a car. That's why Trick Flow has engineered this cam degree supplement kit. The kit contains components to make degreasing the cam in a vehicle easier: a steel plate for the magnetic base, an allen key, adjustable set-up lash adjuster, and an extension for the dial indicator. This kit must be used with the TFS-90000 cam degree kit.



TFS-90100

PART #	DESCRIPTION
TFS-90100	Cam degree supplement kit, each



HIGH PERFORMANCE FORD MODULAR EDITION



VALVETRAIN COMPONENTS

Replacement Valvetrain Components for Ford 4.6L/5.4L

PART #	DESCRIPTION
TFS-21400008	Hydraulic lash adjuster, Ford 4.6L/5.4L 2V/4V, each
TFS-21400008-16	Hydraulic lash adjusters, Ford 4.6L/5.4L 2V/4V, set of 16
TFS-21400009	Hydraulic lash adjuster, Ford 4.6L/5.4L 3V, each
TFS-21400009-12	Hydraulic lash adjusters, Ford 4.6L/5.4L 3V, set of 12
TFS-51800502	Timing gear set/spacers, Ford 4.6L/5.4L 2V, OEM-style, kit
TFS-51800503	Camshaft gear spacers, Ford 4.6L/5.4L 2V, pair
TFS-51800504	Timing chain only, Ford 5.4L 2V, each
TFS-51800505	Adjustable crankshaft gear, Ford 4.6L 2V/4V, set
TFS-51800507	Timing chain arms and guides, Ford 4.6L 2V, kit
TFS-51800508	Camshaft bolts, fit cams that require 12mm bolts, Ford 4.6L 2V/4V, pair
TFS-51800510	Roller follower, Ford 4.6L/5.4L 2V/4V, OEM-style, each
TFS-51800510-16	Roller followers, Ford 4.6L/5.4L 2V/4V, OEM-style, set of 16
TFS-51800511	Timing chain arm and guides, Ford 5.4L 2V, kit
TFS-51800512	Timing chain only, Ford 4.6L 2V, each
TFS-51800513	Timing chain tensioners, Ford 4.6L 2V, pair
TFS-51800516	NEW - Timing gears only, Ford 4.6L 2V, replacement gears for TFS-51800519 kit, billet steel, pair
TFS-51800519	Timing chain kit with non-adjustable crankshaft gear, Ford 4.6L 2V, each
TFS-51800520	Timing chain kit with adjustable crankshaft gear, Ford 4.6L 2V, each
TFS-51800610	Roller follower, Ford 4.6L/5.4L 3V, OEM-style, each
TFS-51800610-12	Roller followers, Ford 4.6L/5.4L 3V, OEM-style, set of 12
TFS-52900510	Roller follower, Ford 4.6L/5.4L 2V/4V, OEM Ford GT-style, high rpm race applications only, each
TFS-52900510-16	Roller followers, Ford 4.6L/5.4L 2V/4V, OEM Ford GT-style, high rpm race applications only, set of 16

Finally, a less expensive alternative to high-priced factory replacement valvetrain and timing parts! Trick Flow's line of valvetrain replacement parts for Ford modular V8 engines features OEM quality and durability at a fraction of the cost. Trick Flow crankshaft sprockets are machined from solid billet steel for durability and are adjustable in 2 degree increments. The chain tensioners are machined from high-quality steel and include tensioners for both the left and right cylinder banks. Camshaft bolts are made from quality Grade 10.9 steel with a black oxide finish and fit all aftermarket and original equipment non-PI cams that require 12mm bolts. Timing chain kits are engineered to keep modular engines running smoothly and include two new high tensile strength steel chains plus hex spacers, cam sprockets, your choice of adjustable or non-adjustable crank gears, timing chain arms and guides, and tensioners.



TFS-51800519

Cylinder Head and Intake Gaskets for Ford 4.6L/5.4L 2V and 5.0L 4V

PART #	DESCRIPTION
TFS-51800921	Intake gaskets, PI-style, aluminum intake manifolds only, Ford 4.6L/5.4L 2V, pair
TFS-51800922	Intake gaskets, PI-style, aluminum or OE composite intake manifolds, Ford 4.6L/5.4L 2V, pair
TFS-5180901L	MLS head gasket, Ford 4.6L/5.4L 2V, 3.630" bore, left, each
TFS-5180901R	MLS head gasket, Ford 4.6L/5.4L 2V, 3.630" bore, right, each
TFS-5180902L	MLS head gasket, Twisted Wedge Race 195 cylinder heads and Ford Racing M-6010BOSS50 engine block only, 3.700 bore, left, each
TFS-5180902R	MLS head gasket, Twisted Wedge Race 195 cylinder heads and Ford Racing M-6010BOSS50 engine block only, 3.700 bore, right, each
TFS-5180903L	MLS head gasket, Ford 5.0L 4V, left, each
TFS-5180903R	MLS head gasket, Ford 5.0L 4V, right, each

Trick Flow premium quality gaskets to complement Trick Flow cylinder heads and intakes. The gaskets are constructed from the highest quality materials for superior sealing under extreme pressure and heat.

Cylinder Head Bolt Kit for Ford 4.6L 2V/3V/4V

Keep combustion where it belongs! Trick Flow's high-quality cylinder head bolt kits provide consistent clamping force from bolt-to-bolt. The bolts are made from premium quality alloy steel with cold-formed heads and rolled threads. The kit contains all the bolts you need to install a pair of heads, including hardened washers.



TFS-51800922



TFS-5180901L



TFS-5180902R



TFS-5180903R

PART #	DESCRIPTION
TFS-92008	Cylinder head bolt kit, torque-to-yield, each

1-800-869-8711

www.enginetech.com

HIGH PERFORMANCE FORD MODULAR EDITION



MAHLE MOTORSPORTS FORD MODULAR PISTONS

Ford Modular 4.6 2-Valve or 4-Valve (1.5, 1.5, 3.0mm File Fit Performance Ring Set included)

PART #		BORE	STROKE	ROD LENGTH	C/H	PIN	CROWN VOLUME	WEIGHT G	42CC	46CC	52CC	ALLOY
MOD220551i16	281	3.551	3.543	5.93	1.22	0.866	-16	324	9.9	9.4	8.7	4032
MOD220571i16	284	3.571	3.543	5.93	1.22	0.866	-16	330	10	9.5	8.8	4032
MOD220581i16	285	3.581	3.543	5.93	1.22	0.866	-16	333	10.1	9.5	8.8	4032
MOD220571P22*	284	3.571	3.543	5.93	1.22	0.866	-22	330	9.2	8.8	8.2	2618
MOD220551F00	281	3.551	3.543	5.93	1.22	0.866	0	364	12.9	12	10.8	4032
MOD220571F00	284	3.571	3.543	5.93	1.22	0.866	0	370	13	12.1	10.9	4032

Ford Modular 5.4 2-Valve or 4-Valve (1.5, 1.5, 3.0mm File Fit Performance Ring Set included)

PART #		BORE	STROKE	ROD LENGTH	C/H	PIN	CROWN VOLUME	WEIGHT G	42CC	46CC	52CC	ALLOY
MOD220551i16	330	3.551	4.165	6.657	1.22	0.866	-16	324	9.7	9.2	8.7	4032
MOD220571i16	334	3.571	4.165	6.657	1.22	0.866	-16	330	9.8	9.3	8.8	4032
MOD220581i16	336	3.581	4.165	6.657	1.22	0.866	-16	333	9.8	9.4	8.8	4032
MOD220571P22*	334	3.571	4.165	6.657	1.22	0.866	-22	330	9.1	8.8	8.3	2618
MOD220551F00	330	3.551	4.165	6.657	1.22	0.866	0	364	12	11.2	10.4	4032
MOD220571F00	334	3.571	4.165	6.657	1.22	0.866	0	370	12	11.3	10.5	4032

Ford Modular 4.6 3-Valve (1.5, 1.5, 3.0mm File Fit Performance Ring Set included)

PART #		BORE	STROKE	ROD LENGTH	C/H	PIN	CROWN VOLUME	WEIGHT G	42CC	46CC	52CC	ALLOY
M3V220551i16	281	3.551	5.543	5.93	1.22	0.866	-16	324	9.9	9.4	8.7	4032
M3V220571i16	284	3.571	5.543	5.93	1.22	0.866	-16	330	10	9.5	8.8	4032
M3V220571P22*	284	3.571	5.543	5.93	1.22	0.866	-22	330	9.2	8.8	8.2	2618

Ford Modular 5.4 3-Valve (1.5, 1.5, 3.0mm File Fit Performance Ring Set included)

PART #		BORE	STROKE	ROD LENGTH	C/H	PIN	CROWN VOLUME	WEIGHT G	42CC	46CC	52CC	ALLOY
M3V220551i16	330	3.551	4.165	6.657	1.22	0.866	-16	324	9.7	9.2	8.7	4032
M3V220571i16	334	3.571	4.165	6.657	1.22	0.866	-16	330	9.8	9.3	8.8	4032
M3V220571P22*	334	3.571	4.165	6.657	1.22	0.866	-22	330	9.1	8.8	8.3	2618

Ford Modular 5.0 4-Valve (1.2, 1.2, 2.5mm File Fit Performance Ring Set included)

PART #		BORE	STROKE	ROD LENGTH	C/H	PIN	CROWN VOLUME	WEIGHT G	42CC	46CC	52CC	ALLOY
M4V167630D03**	302	3.63	3.65	5.933	1.167	0.866	3	375	-	-	11.2	4032
M4V167650D03**	304	3.65	3.65	5.933	1.167	0.866	3	381	-	-	11.3	4032
M4V167630X10*	302	3.63	3.65	5.933	1.167	0.866	10	389	-	-	12.5	2618
M4V167650X10*	304	3.65	3.65	5.933	1.167	0.866	10	395	-	-	12.6	2618
M4V167630P13*	302	3.63	3.65	5.933	1.167	0.866	-13	342	-	-	9	2618
M4V167650P13*	304	3.65	3.65	5.933	1.167	0.866	-13	348	-	-	9.1	2618

NOTES: *Powerpack Plus 2618 Alloy & Hard Anodized Top Ring for Extreme Duty Applications
** Hard Anodized Top Ring Groove For Extreme Duty Applications



HIGH PERFORMANCE FORD MODULAR EDITION



FORD MODULAR

FORD 4.6L-V8 SPHERICAL DISH



OVERSIZES: .005/.010/.020/.030
RING PACK: 2-1.5mm / 1-3.0mm
RINGSET PART NO: 3551CD8

BORE	STROKE	O.E DECK HT.	ALLOY	LOCKRING
3.5512	3.543	8.937"	2618	PRN-86

Note: Centered Pin. Can Be Used With 2 And 4 Valve Heads. Clearance Connecting Rods As Necessary.

PART #	ROD	C/H	PIN	DISH/DOME	C/R			GRAM WEIGHT	TOP LAND	VALVE-RLF DEPTH-DIA.	
					42cc	46cc	52cc			INT	EXH
IC883/KTD	5.933	1.220	.8660	DISH 10cc	11.0	10.3	9.5	345/95	.225"	.000"-0.000"	.000"-0.000"
IC884/KTD	5.933	1.220	.8660	DISH 17cc	9.9	9.4	8.7	355/95	.225"	.000"-0.000"	.000"-0.000"
IC885/KTD	5.933	1.220	.8660	DISH 21cc	9.4	8.9	8.3	354/95	.225"	.000"-0.000"	.000"-0.000"

FORD 4.6L-V8 SPHERICAL DISH - 3V



OVERSIZES: .005/.010/.020/.030
RING PACK: 2-1.5mm / 1-3.0mm
RINGSET PART NO: 3551CD8

BORE	STROKE	O.E DECK HT.	ALLOY	LOCKRING
3.5512	3.543	8.937"	2618	PRN-86

Note: Centered Pin. Clearance Connecting Rods As Necessary.

PART #	ROD	C/H	PIN	DISH/DOME	C/R			GRAM WEIGHT	TOP LAND	VALVE-RLF DEPTH-DIA.	
					42cc	46cc	52cc			INT	EXH
IC934/KTD	5.933	1.220	.8660	DISH-3V 16.6cc	10.1	9.4	8.8	368/95	.280"	.106"-1.538"	.111"-1.678"

FORD 4.6L-V8 FLAT TOP



OVERSIZES: .005/.010/.020/.030
RING PACK: 2-1.5mm / 1-3.0mm
RINGSET PART NO: 3551CD8

BORE	STROKE	O.E DECK HT.	ALLOY	LOCKRING
3.5512	3.543	8.937"	2618	PRN-86

Note: Centered Pin. Can Be Used With 2 And 4 Valve Heads. Clearance Connecting Rods As Necessary.

PART #	ROD	C/H	PIN	DISH/DOME	C/R			GRAM WEIGHT	TOP LAND	VALVE-RLF DEPTH-DIA.	
					42cc	46cc	52cc			INT	EXH
IC882/KTD	5.933	1.220	.8660	FLAT TOP -0cc	13.0	12.1	11.0	345/95	.225"	.000"-0.000"	.000"-0.000"

HIGH PERFORMANCE FORD MODULAR EDITION



FORD MODULAR

FORD 5.4L-V8 SPHERICAL DISH



OVERSIZES: .005/.010/.020/.030
RING PACK: 2-1.5mm / 1-3.0mm
RINGSET PART NO: 3551CD8

BORE	STROKE	O.E DECK HT.	ALLOY	LOCKRING
3.5512	4.165	10.078"	2618	PRN-86

Note: Centered Pin. Can Be Used With 2 And 4 Valve Heads. Clearance Connecting Rods As Necessary.

PART #	ROD	C/H	PIN	DISH/DOME	C/R			GRAM WEIGHT	TOP LAND	VALVE-RLF DEPTH-DIA.	
					42cc	46cc	52cc			INT	EXH
IC883/KTD	6.657	1.220	.8660	DISH 10cc	9.8	9.4	8.8	345/95	.225"	.000"-0.000"	.000"-0.000"
IC884/KTD	6.657	1.220	.8660	DISH 17cc	9.1	8.7	8.3	355/95	.225"	.000"-0.000"	.000"-0.000"
IC885/KTD	6.657	1.220	.8660	DISH 21cc	8.7	8.4	8.0	354/95	.225"	.000"-0.000"	.000"-0.000"

FORD 5.4L-V8 SPHERICAL DISH - 3V



OVERSIZES: .005/.010/.020/.030
RING PACK: 2-1.5mm / 1-3.0mm
RINGSET PART NO: 3551CD8

BORE	STROKE	O.E DECK HT.	ALLOY	LOCKRING
3.5512	4.165	10.078"	2618	PRN-86

Note: Centered Pin. Clearance Connecting Rods As Necessary.

PART #	ROD	C/H	PIN	DISH/DOME	C/R			GRAM WEIGHT	TOP LAND	VALVE-RLF DEPTH-DIA.	
					42cc	46cc	52cc			INT	EXH
IC934/KTD	6.657	1.220	.8660	DISH-3V 16.6cc	9.1	8.8	8.3	368/95	.280"	.106"-1.538"	.111"-1.678"

FORD 5.4L-V8 FLAT TOP



OVERSIZES: .005/.010/.020/.030
RING PACK: 2-1.5mm / 1-3.0mm
RINGSET PART NO: 3551CD8

BORE	STROKE	O.E DECK HT.	ALLOY	LOCKRING
3.5512	4.165	10.078"	2618	PRN-86

Note: Centered Pin. Can Be Used With 2 And 4 Valve Heads. Clearance Connecting Rods As Necessary.

PART #	ROD	C/H	PIN	DISH/DOME	C/R			GRAM WEIGHT	TOP LAND	VALVE-RLF DEPTH-DIA.	
					42cc	46cc	52cc			INT	EXH
IC882/KTD	6.657	1.220	.8660	FLAT TOP -0cc	11.0	10.6	9.8	345/95	.225"	.000"-0.000"	.000"-0.000"



HIGH PERFORMANCE FORD MODULAR EDITION



FORD PISTONS

Stroke	ROD LENGTH	BORE	C.I./ LITERS	TOP VOLUME	C/H	COMPRESSION RATIO				WEIGHT	PIN O.D.	PIN LENGTH	1ST	2ND	3RD	PART#	RING SET #
						42.4cc	49.8cc	54.2cc	N/A								
4.6L MODULAR V8: DISH TOP (2V AND 4V) SRS PISTONS																	
3.543	5.933	3.552	4.6 L	-18.1cc	1.215	9.40	8.58	8.17	N/A	311	0.866	2.500	1.5mm	1.5mm	3.0mm	10178-STD	315-0039-005
3.543	5.933	3.572	4.6 L	-18.1cc	1.215	9.48	8.66	8.24	N/A	313	0.866	2.500	1.5mm	1.5mm	3.0mm	10178-020	315-0039-025
3.543	5.933	3.582	4.6 L	-18.1cc	1.215	9.52	8.69	8.28	N/A	315	0.866	2.500	1.5mm	1.5mm	3.0mm	10178-030	315-0039-035
3.543	5.933	3.552	4.6 L	-10.5cc	1.215	10.44	9.42	8.91	N/A	322	0.866	2.500	1.5mm	1.5mm	3.0mm	11883-STD	315-0039-005
3.543	5.933	3.572	4.6 L	-10.5cc	1.215	10.53	9.50	8.99	N/A	324	0.866	2.500	1.5mm	1.5mm	3.0mm	11883-020	315-0039-025
3.543	5.933	3.582	4.6 L	-10.5cc	1.215	10.58	9.55	9.03	N/A	326	0.866	2.500	1.5mm	1.5mm	3.0mm	11883-030	315-0039-035
3.543	5.933	3.552	4.6 L	-4.5cc	1.215	11.47	10.23	9.62	N/A	342	0.866	2.500	1.5mm	1.5mm	3.0mm	11884-STD	315-0039-005
3.543	5.933	3.572	4.6 L	-4.5cc	1.215	11.57	10.32	9.71	N/A	344	0.866	2.500	1.5mm	1.5mm	3.0mm	11884-020	315-0039-025
3.543	5.933	3.582	4.6 L	-4.5cc	1.215	11.62	10.36	9.75	N/A	346	0.866	2.500	1.5mm	1.5mm	3.0mm	11884-030	315-0039-035
3.750	5.850	3.552	4.9 L	-22.0cc	1.205	9.38	8.61	8.21	N/A	327	0.866	2.500	1.5mm	1.5mm	3.0mm	14849-STD	315-0039-005
3.750	5.850	3.572	4.9 L	-22.0cc	1.205	9.47	8.69	8.29	N/A	330	0.866	2.500	1.5mm	1.5mm	3.0mm	14849-020	315-0039-025
3.750	5.933	3.552	4.9 L	-21.1cc	1.115	9.49	8.69	8.29	N/A	292	0.866	2.500	1.5mm	1.5mm	3.0mm	14118-STD	315-0039-005
3.750	5.933	3.572	4.9 L	-21.1cc	1.115	9.57	8.77	8.36	N/A	297	0.866	2.500	1.5mm	1.5mm	3.0mm	14118-020	315-0039-025
3.750	5.933	3.582	4.9 L	-21.1cc	1.115	9.62	8.81	8.40	N/A	305	0.866	2.500	1.5mm	1.5mm	3.0mm	14118-030	315-0039-035
3.750	5.950	3.552	4.9 L	-21.1cc	1.098	9.49	8.69	8.29	N/A	335	0.866	2.500	1.5mm	1.5mm	3.0mm	14098-STD	315-0039-005
3.750	5.950	3.572	4.9 L	-21.1cc	1.098	9.57	8.77	8.36	N/A	317	0.866	2.500	1.5mm	1.5mm	3.0mm	14098-020	315-0037-025
3.750	5.950	3.625	5.0 L	-21.1cc	1.098	9.80	8.98	8.56	N/A	315	0.866	2.500	1.5mm	1.5mm	3.0mm	14098-073	CR8264 75
3.750	5.950	3.552	4.9 L	-11.2cc	1.098	10.85	9.79	9.27	N/A	316	0.866	2.500	1.5mm	1.5mm	3.0mm	14110-STD	315-0039-005
3.750	5.950	3.572	4.9 L	-11.2cc	1.098	10.94	9.88	9.35	N/A	326	0.866	2.500	1.5mm	1.5mm	3.0mm	14110-020	315-0037-025
3.750	5.950	3.625	5.0 L	-11.2cc	1.098	11.20	10.12	9.57	N/A	363	0.866	2.500	1.5mm	1.5mm	3.0mm	14110-073	CR8264 75
3.750	6.000	3.552	4.9 L	-13.5cc	1.048	10.49	9.51	9.02	N/A	315	0.927	2.500	1.5mm	1.5mm	3.0mm	14433-STD	315-0039-005
3.750	6.000	3.572	4.9 L	-13.5cc	1.048	10.59	9.60	9.10	N/A	314	0.927	2.500	1.5mm	1.5mm	3.0mm	14433-020	315-0037-025
3.750	6.000	3.625	5.0 L	-13.5cc	1.048	10.84	9.82	9.32	N/A	333	0.927	2.500	1.5mm	1.5mm	3.0mm	14433-073	CR8264 75
3.750	6.000	3.552	4.9 L	-21.1cc	1.048	9.49	8.69	8.29	N/A	304	0.927	2.500	1.5mm	1.5mm	3.0mm	14434-STD	315-0039-005
3.750	6.000	3.572	4.9 L	-21.1cc	1.048	9.57	8.77	8.36	N/A	299	0.927	2.500	1.5mm	1.5mm	3.0mm	14434-020	315-0039-025
3.750	6.000	3.625	5.0 L	-21.1cc	1.048	9.80	8.98	8.56	N/A	319	0.927	2.500	1.5mm	1.5mm	3.0mm	14434-073	CR8264 75

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PROBE INDUSTRIES

FORD PISTONS

Stroke	ROD LENGTH	BORE	C.I./ LITERS	TOP VOLUME	C/H	COMPRESSION RATIO				WEIGHT	PIN O.D.	PIN LENGTH	1ST	2ND	3RD	PART#	RING SET #
						42.4cc	49.8cc	54.2cc	N/A								
4.6L MODULAR V8: FLAT TOP (2V AND 4V) SRS PISTONS																	
3.543	5.933	3.552	4.6 L	0.0cc	1.215	12.40	10.94	10.24	N/A	317	0.866	2.500	1.5mm	1.5mm	3.0mm	12396-STD	315-0039-005
3.543	5.933	3.562	4.6 L	0.0cc	1.215	12.45	10.99	10.29	N/A	319	0.866	2.500	1.5mm	1.5mm	3.0mm	12396-010	CR-8264-10
3.543	5.933	3.572	4.7 L	0.0cc	1.215	12.51	11.04	10.33	N/A	321	0.866	2.500	1.5mm	1.5mm	3.0mm	12396-020	315-0039-025
3.543	5.933	3.582	4.7 L	0.0cc	1.215	12.56	11.09	10.38	N/A	323	0.866	2.500	1.5mm	1.5mm	3.0mm	12396-030	315-0039-035
Stroke	ROD LENGTH	BORE	C.I./ LITERS	TOP VOLUME	C/H	COMPRESSION RATIO				WEIGHT	PIN O.D.	PIN LENGTH	1ST	2ND	3RD	PART#	RING SET #
						53.9cc	N/A	N/A	N/A								
4.6L MODULAR V8: DISH TOP (3V) SRS PISTONS																	
3.750	6.000	3.552	4.9 L	-12.7cc	1.048	9.14	N/A	N/A	N/A	326	0.927	2.500	1.5mm	1.5mm	3.0mm	14780-STD [®]	315-0039-005
3.750	6.000	3.572	4.9 L	-12.7cc	1.048	9.22	N/A	N/A	N/A	328	0.927	2.500	1.5mm	1.5mm	3.0mm	14780-020 [®]	315-0039-025
3.543	5.933	3.552	4.6 L	-5.0cc	1.215	9.57	N/A	N/A	N/A	346	0.866	2.500	1.5mm	1.5mm	3.0mm	14759-STD [®]	315-0039-005
3.543	5.933	3.572	4.7 L	-5.0cc	1.215	9.56	N/A	N/A	N/A	346	0.866	2.500	1.5mm	1.5mm	3.0mm	14759-020 [®]	315-0039-025
Stroke	ROD LENGTH	BORE	C.I./ LITERS	TOP VOLUME	C/H	COMPRESSION RATIO				WEIGHT	PIN O.D.	PIN LENGTH	1ST	2ND	3RD	PART#	RING SET #
						53.9cc	N/A	N/A	N/A								
4.6L MODULAR V8: FLAT TOP (3V) SRS PISTONS																	
3.750	6.000	3.552	4.9 L	-1.5cc	1.048	10.57	N/A	N/A	N/A	349	0.927	2.500	1.5mm	1.5mm	3.0mm	14803-STD [®]	315-0039-005
3.750	6.000	3.572	4.9 L	-1.5cc	1.048	10.66	N/A	N/A	N/A	356	0.927	2.500	1.5mm	1.5mm	3.0mm	14803-020 [®]	315-0039-025
Stroke	ROD LENGTH	BORE	C.I./ LITERS	TOP VOLUME	C/H	COMPRESSION RATIO				WEIGHT	PIN O.D.	PIN LENGTH	1ST	2ND	3RD	PART#	RING SET #
						42.4cc	49.8cc	54.2cc	N/A								
5.4L MODULAR V8: DISH TOP SRS PISTONS																	
4.165	6.657	3.552	5.4 L	-18.1cc	1.215	8.75	8.15	7.83	N/A	311	0.866	2.500	1.5mm	1.5mm	3.0mm	10178-STD	315-0039-005
4.165	6.657	3.572	5.5 L	-18.1cc	1.215	8.81	8.20	7.88	N/A	313	0.866	2.500	1.5mm	1.5mm	3.0mm	10178-020	315-0039-025
4.165	6.657	3.582	5.5 L	-18.1cc	1.215	8.84	8.23	7.91	N/A	315	0.866	2.500	1.5mm	1.5mm	3.0mm	10178-030	315-0039-035
Stroke	ROD LENGTH	BORE	C.I./ LITERS	TOP VOLUME	C/H	COMPRESSION RATIO				WEIGHT	PIN O.D.	PIN LENGTH	1ST	2ND	3RD	PART#	RING SET #
						42.4cc	49.8cc	54.2cc	N/A								
5.4L MODULAR V8: FLAT TOP SRS PISTONS																	
4.165	6.657	3.552	5.4 L	0.0cc	1.320	14.36	12.65	11.83	N/A	361	0.866	2.500	1.5mm	1.5mm	3.0mm	13718-STD	315-0039-005
4.165	6.657	3.572	5.5 L	0.0cc	1.320	14.48	12.77	11.94	N/A	366	0.866	2.500	1.5mm	1.5mm	3.0mm	13718-020	315-0039-025

NOTES: *6. 3 Valve



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CRANK AND RODS

Scat Crankshafts

PART #	DESCRIPTION	ROD LENGTH	CRANK PIN	WRIST PIN	B.E. WIDTH
H-Beam Connecting Rods					
2-46L-5933	V8 4.6L ARP 8740 3/8 Cap Screws	5.933	2.086	0.866	0.94
2-46L-5933A	V8 4.6L ARP2000 3/8 Cap Screws	5.933	2.086	0.866	0.94
2-54L-6657	V8 5.4L ARP 8740 3/8 Cap Screws	6.657	2.086	0.866	0.94
2-54L-6657A	V8 5.4L ARP2000 3/8 Cap Screws	6.657	2.086	0.866	0.94



Eagle Crankshafts

PART #	DESCRIPTION	ROD LENGTH	CRANK PIN	WRIST PIN	B.E. WIDTH
H-Beam Connecting Rods					
CRS5933F8740	V8 4.6L ARP 8740 3/8 Cap Screws	5.933	2.086	0.866	0.94
CRS5933F3D	V8 4.6L ARP2000 3/8 Cap Screws	5.933	2.086	0.866	0.94
CRS5950F3D	V8 4.6L ARP2000 3/8 Cap Screws	5.95	1.889	0.866	0.94
CRS6657F3D	V8 5.4L ARP2000 3/8 Cap Screws	6.657	2.086	0.866	0.94

PART #	DESCRIPTION	STROKE	CRANK PIN	BOB WEIGHT	NOTES
Crankshafts					
102813554	V8 4.6L Cast Steel Crankshaft	3.554	2.086	1600	8 bolt flange .092 radi
102813750	V8 4.6L Cast Steel Crankshaft	3.75	1.889	1600	8 bolt flange .092 radi
428135545933	V8 4.6L 4340 Forged Crankshaft	3.554	2.086	1600	8 bolt flange .125 radi
428137505950	V8 4.6L 4340 Forged Crankshaft	3.75	2.086	1600	8 bolt flange .125 radi

PART #	DESCRIPTION	STROKE	ROD	PISTON	44CC	52CC
Street & Strip Rotating Assemblies - Cast Crank, Forged Pistons, H beam rods up to 500HP						
16400	285 CID 2 Valve and PI Heads	3.554	5.933	Arias -17cc	9.7	8.7
16404	301 CID 2 Valve and PI Heads	3.75	5.95	Arias-22cc	9.5	8.6



CRANK AND RODS (CONT'D)



Eagle Crankshafts

PART #	DESCRIPTION	STROKE	ROD	PISTON	50CC
<i>Street & Strip Rotating Assemblies - Cast Crank, Forged Pistons, H beam rods up to 500HP</i>					
16410	285 CID 3 Valve Heads	3.554	5.933	Arias -17cc	9
16414	301 CID 3 Valve Heads	3.75	5.95	Arias-19cc	9.3

PART #	DESCRIPTION	STROKE	ROD	PISTON	52.6CC
16420	285 CID 4 Valve Heads	3.554	5.933	Arias -17cc	8.6
16424	301 CID 4 Valve Heads	3.75	5.95	Arias -17cc	9

Eagle Specialties reserves the right to substitute pistons due to availability

PART #	DESCRIPTION	STROKE	ROD	PISTON	44CC	52CC
<i>Competition Assemblies - 4340 Forged Crank, Premium Forged Pistons, H - Beam Rods</i>						
14400	285 CID 2 Valve and PI Heads	3.554	5.933	Arias -17cc	9.7	8.7
14404	301 CID 2 Valve and PI Heads	3.75	5.95	Arias -22cc	9.5	8.6
14403	301 CID 2 Valve and PI Heads	3.75	5.95	Arias -4cc	12.2	10.9

PART #	DESCRIPTION	STROKE	ROD	PISTON	50CC
14410	285 CID 3 Valve Heads	3.554	5.933	Arias -17cc	9
14414	301 CID 3 Valve Heads	3.75	5.95	Arias -17cc	9.3
14413	301 CID 3 Valve Heads	3.75	5.95	Arias -4cc	11.2

PART #	DESCRIPTION	STROKE	ROD	PISTON	52.6CC
16420	285 CID 4 Valve Heads	3.554	5.933	Arias -17cc	8.6
16424	301 CID 4 Valve Heads	3.75	5.95	Arias -17cc	9
14423	301 CID 4 Valve Heads	3.75	5.95	Arias -4cc	10.8

Eagle Specialties reserves the right to substitute pistons due to availability

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KING BEARINGS

PART #	DESCRIPTION
CR868HPN	HP Series Rod Bearing Bi-Metal Narrowed 4.6/5.4
CR868XPN	Performance Tri-Metal Rod Bearing 4.6/5.4
MB5280HP	Windsor Block HP Series Main Bearing Bi-Metal Use Thrust Washer in #5 upper 4.6/5.4
MB5280XP	Windsor Block Tri-Metal Performance Bearing Use Thrust Washer in #5 upper 4.6/5.4
MB5353HP	Romeo Block HP Series Bi Metal Performance Bearing Use Thrust Washer in #5 upper 4.6/5.4
MB5353XP	Romeo Block Tri Metal Performance Bearing Use Thrust Washer in #5 upper 4.6/5.4



CLEVITE BEARINGS

PART #	DESCRIPTION
CB1442H	H -Series Rod Bearing No Dowel Hole in Cap Half Romeo & Windsor
CB1442HK	H-Series with Tri-Armor, No Dowel Hole in Cap Half Romeo & Windsor
CB1442HX	H-Series, Bearing Wall .0005" Thinner for .0010" More oil clearance Romeo & Windsor
CB1442HXK	H-Series with Tri-Armor, Bearing wall .0005 for .0010" More oil Clearance No Dowel Hole in Cap Half Romeo & Windsor
MS2007H	H -Series, 93-10 "W,V" Iron Romeo Block. Use Thrust Washer in #5 upper
MS2007HK	H -Series, Tri-Armor 93-10 "W,V" Iron Romeo Block. Use Thrust Washer in #5 upper
MS2007HX	H -Series, Bearing wall .0005 Thinner for .00010 More Clearance 93-10 "W,V" Iron Romeo Block. Use Thrust Washer in #5 upper
MS2007HXK	H -Series, Tri-Armor Bearing wall .0005 Thinner for .00010 More Clearance 93-10 "W,V" Iron Romeo Block. Use Thrust Washer in #5 upper
MS2202H	H Series Main Brg 96-10 Windsor Block Tri-Metal Performance Bearing 3 piece thrust #5
MS2202HK	H Series Main Brg, Tri-Armor 96-10 Windsor Block Tri-Metal Performance Bearing 3 piece thrust #5
MS2202HKX	H Series Main Brg, Tri-Armor wall .0005 Thinner for .00010 More Clearance 96-10 Windsor Block Tri-Metal Performance Bearing 3 piece thrust #5
MS2259H	H -Series, 93-10 "W" Aluminum Romeo Block. 1 piece Thrust Washer, position #5 Grooved Upper Plain Lower
MS2259HK	H -Series with Tri-Armor, 93-10 "W" Aluminum Romeo Block. 1 piece Thrust Washer, position #5 Grooved Upper Plain Lower
MS2259HXK	H -Series with Tri-Armor, .005 Thinner for .0010 more oil clearance 93-10 "W" Aluminum Romeo Block. 1 piece Thrust Washer, position #5 Grooved Upper Plain Lower



HARMONIC BALANCERS

PART #	APPLICATION	DESCRIPTION
ATI-918035	94-04 4.6L SOHC	Super Damper, Internal, 6.780 OD, SFI 18.1, Alum, Shell with Steel Hub 5-Groove Pulley 3 bolt 360 deg
ATI-918036	96-99, 01, 03-04 4.6L SVT Cobra	Super Damper, Internal, 6.780 OD, SFI 18.1, Alum, Shell with Steel Hub 6-Groove Pulley 3 bolt 360 deg
ATI-918037	96-04 Mustang GT, 03-04 Mach 1, 01 Bullitt	Super Damper, Internal, 6.780 OD, SFI 18.1, Alum, Shell Steel Hub 8-Groove Pulley 3 bolt 360 deg, 4.50lbs shell, 2.90lbs Hub
ATI-918038	96-04 Mustang GT, 03-04 Mach 1, 01 Bullitt	Super Damper, Internal, 7.530 OD, SFI 18.1, Alum, Shell with Steel Hub 8-Groove Pulley 3 bolt 360 deg, Shell 9.75 lbs, Hub 2.90 lbs
ATI-918039	05-10 Mustang GT 4.6L	Super Damper, Internal, 7.530 OD, SFI 18.1, Alum, Shell with Steel Hub 8-Groove Pulley 3 bolt 360 deg, Shell 9.75 lbs, Hub 2.90 lbs
ATI-918041	96-04 Mustang GT, 96-99,01,03-04 SVT Cobra	Super Damper, Internal, 5.5 OD, SFI 18.1, Alum, Shell with Steel Hub 6-Groove Pulley 3 bolt 360 deg, 15% underdrive
ATI-918042	08-09 Bullitt, 05-10 GT, 07-08 Shelby GT 4.6L	Super Damper, Internal, 5.5 OD, SFI 18.1, Alum, Shell with Steel Hub 6-Groove Pulley 3 bolt 360 deg, 15% underdrive
ATI-918043	05-06 Mustang GT 5.4L	Super Damper, Internal, 7.530 OD, SFI 18.1, Alum, Shell with Steel Hub 10-Groove Pulley 9.75lbs total weight
ATI-918045	07-11 Shelby GT500 5.4L	Super Damper, Internal, 7.5 OD, SFI 18.1, Alum Shell Steel Hub 10-Groove Pulley 9.75 lbs total weight
ATI-918046	07-12 Shelby GT500 5.4L	Super Damper, Internal, 8.125 OD, SFI 18.1, Alum Shell Steel Hub 10-Groove Pulley, 15% Overdrive NHRA Approved for Super Cobra Jet in Stock Eliminator



PART #	APPLICATION	DESCRIPTION
TFS-19009	96-04 4.6L Cars and Trucks	Track Max, Internal, 6.610 OD, SFI 18.1. Steel Black



PART #	APPLICATION	DESCRIPTION
PFS-80011	91-04 Ford 4.6L	Powerforce, Non SFI, Internal, 6.800 OD, Steel Black For 2v and 4v, Accessories will spin 3% Slower than stock in 4V Applications
PFS-80040	05-09 Ford 4.6L 3V	Powerforce, Non SFI, Internal, 7.500 OD, Nodular iron, black anodized
PFS-90011	91-04 Ford 4.6L	Powerforce Plus, Internal, 6.8 OD, SFI 18-1 with integral serpentine pulley, 2v and 4v heads, Accessories will spin 3% slower than stock in 4V applications
PFS-90040	05-09 Ford 4.6L 3V	Powerforce Plus, Internal, 7.5 OD, SFI 18-1 with integral serpentine pulley, 3v heads



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HARMONIC BALANCER BOLTS

PART #	APPLICATION	SOCKET SIZE	SIZE	UHL
156-2501	4.6L Modular V8	18mm	M12 x 1.50	1.8
156-2502	5.0L Coyote V8	19mm	M12 x 1.50	4.2

CAM BOLT KITS

PART #	APPLICATION	SOCKET SIZE	SIZE	UHL
256-1002	4.6L & 5.4L Modular V8 M10 Cam Sprocket Bolt Kit (1 per cam)	18mm	M10 x 1.5	1.7
256-1001	4.6L & 5.4L Modular V8 M12 Cam Sprocket Bolt Kit (1 per cam)	18mm	M12 x 1.5	1.8

CAM TOWER STUD KITS

PART #	APPLICATION	SOCKET SIZE	SIZE	UHL
156-1002	4.6L & 5.4L 2V - Cam Tower Stud Kit Pro Series 200,000 PSI	6mm	M6 x 1.0	1.825/2.070
156-1001	4.6L & 5.4L 3V - Cam Tower Stud Kit Pro Series 200,000 PSI	6mm	M6 x 1.0	1.825
156-1003	4.6L 4V - Cam Tower Stud Kit Pro Series 200,000 PSI	6mm	M6 x 1.0	1.825/2.070

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HEAD STUDS

APPLICATION	HEX NUTS	12-POINT NUTS
4.6L & 5.4L 2V/4V	156-4101	156-4301
4.6L & 5.4L 2V/4V ARP2000	256-4001	256-4201
4.6L & 5.4L 3V ARP2000	256-4002	256-4202
5.0L 2011-2012 M12 ARP2000 Coyote		256-4702
5.0L 2013 M11 ARP2000 Coyote		256-4301



ROD BOLTS

APPLICATION	Pro Series ARP 2000
4.6L & 5.4L	256-6301



MAIN STUDS (SIDE BOLTS SOLD SEPERATELY)

APPLICATION	2-BOLT MAIN	4-BOLT MAIN
4.6L & 5.4L 2V/3V/4V W/O Windage Tray	156-5401	156-5802
4.6L & 5.4L 3V with Windage Tray		156-5901
4.6L 4V with Windage Tray		256-5701
4.6L Supercharged Cobra w/windage tray 03-04	156-5403	
Side Bolts - Early Aluminum Block M8		156-5001
Side Bolts - Early Cast Iron Block M8	156-5201	
Side Bolts - Late Aluminium Block M9		156-5002
Side Bolts - Late Cast Iron Block M9(except Boss 5.0L)	156-5202	
Side Bolts - Boss 5.0L (Block# M-6010-Boss50) 5.0L Coyote M9	156-5203	
5.0L Coyote (side bolts included)		156-5803





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OIL PUMPS



PART #	APPLICATION	DESCRIPTION
10176	92-09 4.6L SOHC	Standard Volume with Billet Steel Rotors
10227	94-04 4.6L SOHC DOHC	Standard Volume DOHC, High Volume SOHC, 15/16 pickup Billet Steel Rotors
10340	06-09 4.6L 04-08 5.4L SOHC 24 Valve only	Standard Volume High Pressure 15/16 pickup



PART #	APPLICATION	DESCRIPTION
M-6600-D46	96-04 4.6L 2V	Stock Replacement oil pump and pick-up for 96-04 Mustang SVT 4V, High Volume for 4.6L 2V
M-6600-E46	05-10 Mustang 4.6L, 07-11 Shelby GT500 5.4L	Stock replacement 07-11 Shelby GT500, Highest Volume & Pressure production pump for modular engines. Works w/ 3V and 4V pickup. High Pressure Oil Pump and Pickup
M-6600-F46	05-10 Mustang 4.6L 3V, 07-12 Shelby GT500 5.4L 4V, 13 Shelby GT500 5.8L 4V,	High Volume oil pump and pickup, Stock for 2013 Shelby GT500 5.8L 4V, Steel backing plate top reduce flex.

OIL PANS



PART #	APPLICATION	DESCRIPTION
MOR-18546	92-08 4.6L, 96-10 5.4L	Street/Strip, Rear Sump, 7Qt., 6.5" deep, Steel Black Powdercoat, Driver and passenger Kickout, stock pickup
MOR-20546	96-03 4.6L GT, 01 4.6L Bullitt, 03 4.6L Mach 1, 96-99,01 4.6L SVT Cobra, 00 5.4L SVT Cobra R	Street/Strip, Rear Sump, 7Qt., 6.5" deep, Steel, Clear Zinc Finish, Driver and passenger kickout, Max Stroke 3.540 w/ OE Rod, Fits 2V and 4V Engines, stock pickup
MOR-20548	96-08 4.6L GT, 03-04 4.6L Mach 1, 07-08 4.6L Shelby GT, 07-08 5.4L Shelby GT500	Street/Strip, Rear Sump, 7Qt., 6.5" deep, Steel, Clear Zinc Finish, Driver and passenger kickout, Max Stroke 3.540 w/ OE Rod, stock pickup
MOR-20554	97-03 4.6L F-150, 97-03 5.4L Lightning	Drag Race, Rear Sump, 7Qt., 6.5" deep, Natural finish Aluminum, Driver and passenger side kickout, max 3.75" stroke, stock pickup
MOR-20555	96-04 4.6L GT, 03-04 Mach 1, 96-99, 01, 03-04 4.6L SVT Cobra, 00 SVT Cobra R	Drag Race, Rear Sump, 7 Qt, 6.5" deep, natural finish aluminum, Driver and passenger side kickout, internal oil pump, Max 3.75" stroke, stock pickup
MOR-20556	96-03 4.6L Mustang, 00 5.4L Mustang	Drag Race, Rear Sump, 7Qt., 6.5" deep, natural finish aluminum, Driver and Passenger side kickout, External wet sump, Stock stroke only, stock pickup



PART #	APPLICATION	DESCRIPTION
MIL-30715	94-10 4.6L and 5.4L 2WD and 4WD	Stock Replacement, Rear Sump, 5 Qt., 6" deep, Gold iridited steel, No Kickout, Heli-Arc Welded Interior Baffle, Oil pan front depth 2", Max stroke 3.75 with OE rod Stock pickup
MIL-31120	01,08-09 4.6L Bullitt, 96-10 4.6L GT, 03-04 4.6L Mach 1, 07-08 4.6L Shelby GT, 07-11 5.4L Shelby GT500, 96-99,01,03-04 4.6L SVT Cobra	Street/Strip, Rear Sump, 7 Qt., 8.25" deep, Gold iridited steel, Driver and passenger side kickout, baffled, Non Stroker Clearanced, pick part # 18350
MIL-30450	97-09 4.6L/5.4L Ford Trucks	4x4 Truck and Off-Road, Rear Sump, 7Qt., 10" deep, Gold iridited steel, No kickout, Baffled, Max stroke 3.75" with OE rod, Front oil pan depth 2" stock pickup

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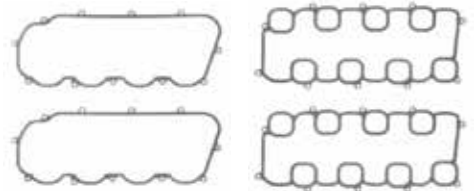


FEL-PRO PERMATORQUE MLS HEAD GASKETS

PART #	APPLICATION
FEL-1141L	281(4.6L)330(5.4) SOHC DOHC 3.630 Bore .036 thick LH
FEL-1141R	281(4.6L)330(5.4) SOHC DOHC 3.630 Bore .036 thick RH

INTAKE GASKETS

PART #	APPLICATION
FEL-1236	281(4.6)330(5.4) .030 SOHC DOHC 5.4 Cobra Vin R Upper Intake plenum
FEL-1343	281(4.6)330(5.4) .030 SOHC DOHC 5.4 Cobra Vin R Lower Intake plenum to manifold



HEAD GASKETS



PART #	APPLICATION
CGT-C5118-030	4.6L/5.4L 92MM Bore .030 thick MLS Driver Side
CGT-C5119-030	4.6L/5.4L 92MM Bore .030 thick MLS Passenger Side
CGT-C5118-040	4.6L/5.4L 92MM Bore .040 thick MLS Driver Side
CGT-C5119-040	4.6L/5.4L 92MM Bore .040 thick MLS Passenger Side
CGT-C5118-051	4.6L/5.4L 92MM Bore .051 thick MLS Driver Side
CGT-C5119-051	4.6L/5.4L 92MM Bore .051 thick MLS Passenger Side
CGT-C5502-030	4.6L/5.4L 94MM Bore .030 thick MLS Driver Side 2V only
CGT-C5503-030	4.6L/5.4L 94MM Bore .030 thick MLS Passenger Side 2V only
CGT-C5502-040	4.6L/5.4L 94MM Bore .040 thick MLS Driver Side 2V only
CGT-C5503-040	4.6L/5.4L 94MM Bore .040 thick MLS Passenger Side 2V only
CGT-5969-030	4.6L/5.4L 94MM Bore .030 thick MLS Driver Side 3V only
CGT-5970-030	4.6L/5.4L 94MM Bore .030 thick MLS Passenger Side 3V only



HIGH PERFORMANCE FORD MODULAR EDITION

ROD BEARING SETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
BB317J	281	4.6	90.20/3.551	SOHC	16	91-11	CAR	"6,9,V,W,X" 16V	Standard OD. Including CNG.
BB319J	281	4.6	90.20/3.551	SOHC	16	91-11	CAR	"6,9,V,W,X" 16V	With 0.002" oversized OD. Including CNG.
BB317J	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	Standard OD.
BB319J	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	With 0.002" oversized OD.
BB317J	281	4.6	90.20/3.551	SOHC	16	97-10	TRUCK, VAN, SUV	"6,W" 16V	Standard OD.
BB319J	281	4.6	90.20/3.551	SOHC	16	97-10	TRUCK, VAN, SUV	"6,W" 16V	With 0.002" oversized OD.
BB317J	281	4.6	90.20/3.551	DOHC	32	03-04	CAR	"Y" 32V S/C	Standard OD.
BB319J	281	4.6	90.20/3.551	DOHC	32	03-04	CAR	"Y" 32V S/C	With 0.002" oversized OD.
BB317J	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	Standard OD.
BB319J	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	With 0.002" oversized OD.
BB317J	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	Standard OD.
BB319J	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	With 0.002" oversized OD.
BB317J	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	Standard OD.
BB318J	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	With 0.003" oversized OD.
BB319J	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	With 0.002" oversized OD.
BB317J	330	5.4	90.20/3.551	SOHC	16	97-11	TRUCK, VAN, SUV	"L,M,Z" 16V	Standard OD.
BB319J	330	5.4	90.20/3.551	SOHC	16	97-11	TRUCK, VAN, SUV	"L,M,Z" 16V	With 0.002" oversized OD.
BB317J	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	Standard OD.
BB317J	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	Standard OD.
BB319J	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	With 0.002" oversized OD.
BB319J	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	With 0.002" oversized OD.
BB317J	330	5.4	90.20/3.551	SOHC	24	04-11	TRUCK, VAN, SUV	"5,V" 24V	Standard OD.
BB319J	330	5.4	90.20/3.551	SOHC	24	04-11	TRUCK, VAN, SUV	"5,V" 24V	With 0.002" oversized OD.
BB311J	415	6.8	90.20/3.551	SOHC	20	97-09	TRUCK, VAN, SUV	"S" 20V	Standard OD.
BB323J	415	6.8	90.20/3.551	SOHC	20	97-09	TRUCK, VAN, SUV	"S" 20V	With 0.002" oversized OD.
BB311J	415	6.8	90.20/3.551	SOHC	30	05-09	TRUCK, VAN, SUV	"Y" 30V	Standard OD.
BB323J	415	6.8	90.20/3.551	SOHC	30	05-09	TRUCK, VAN, SUV	"Y" 30V	With 0.002" oversized OD.

MAIN BEARING SETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
BC469J	281	4.6	90.20/3.551	SOHC	16	91-92	CAR	"6,9,V,W,X" 16V	"W". Iron block. Romeo engines. Engines W/full flanged thrust bearings.
BC202J	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	Use thrust washers in #5 position.
BC470J	281	4.6	90.20/3.551	SOHC	16	93-11	CAR	"6,9,V,W,X" 16V	"W,V". Iron block. Romeo engines. Set contains 1 flanged shell. Use thrust washer in #5 upper position towards rear of engine.
BC393J	281	4.6	90.20/3.551	SOHC	16	96-10	CAR	"6,9,V,W,X" 16V	"6,9,X". Iron block. Windsor engines. Set contains no flanged shells. Use thrust washers in #5 upper position.
BC393J	281	4.6	90.20/3.551	SOHC	16	97-04	TRUCK, VAN, SUV	"6,W" 16V	Windsor "6". Iron block. Use thrust washer in #5 upper position.
BC470J	281	4.6	90.20/3.551	SOHC	16	97-10	TRUCK, VAN, SUV	"6,W" 16V	Romeo "W". Iron block. Use thrust washer in #5 upper position towards the rear of engine.
BC202J	281	4.6	90.20/3.551	SOHC	16	02-04	CAR	"6,9,V,W,X" 16V	"W". Alum block. Romeo engines. Use thrust washers in #5 position.
BC202J	281	4.6	90.20/3.551	SOHC	16	02-10	TRUCK, VAN, SUV	"6,W" 16V	Romeo "W". Alum. block. Use thrust washer in #5 upper position.
BC202J	281	4.6	90.20/3.551	DOHC	32	03-04	CAR	"Y" 32V S/C	Use thrust washer in #5 upper position.
BC202J	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	Use thrust washers in #5 position.
BC202J	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	
BC202J	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	



MAIN BEARING SETS (cont'd)

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
BC393J	330	5.4	90.20/3.551	SOHC	16	97-11	TRUCK, VAN, SUV	"L,M,Z" 16V	Use thrust washer in # 5 upper position.
BC393J	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	Use thrust washer in # 5 upper position.
BC393J	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	Use thrust washer in # 5 upper position.
BC393J	330	5.4	90.20/3.551	SOHC	24	04-11	TRUCK, VAN, SUV	"5,V" 24V	Use thrust washer in # 5 upper position.
BC428J	415	6.8	90.20/3.551	SOHC	20	97-09	TRUCK, VAN, SUV	"S" 20V	Includes 3 pc. thrust washer set.
BC428J	415	6.8	90.20/3.551	SOHC	30	05-09	TRUCK, VAN, SUV	"Y" 30V	

EXPANSION PLUG KITS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
PK13	281	4.6	90.20/3.551	SOHC	16	91-11	CAR	"6,9,V,W,X" 16V	Steel plugs.
PK70	281	4.6	90.20/3.551	SOHC	16	91-98	CAR	"6,9,V,W,X" 16V	Steel plugs.
PK13	281	4.6	90.20/3.551	SOHC	16	97-12	TRUCK, VAN, SUV	"6,W" 16V	Steel plugs.
PK15	330	5.4	90.20/3.551	SOHC	16	97-11	TRUCK, VAN, SUV	"L,M,Z" 16V	Steel plugs.
PK15	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	Steel plugs.

O.E. STYLE HEAD GASKET SETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
F281HS	281	4.6	90.20/3.551	SOHC	16	91-94	CAR	"6,9,V,W,X" 16V	"W". MLS Head Gaskets. With OE type tophat valve stem seals for "stepped" guides.
F281HS-Q	281	4.6	90.20/3.551	DOHC	32	93-94	CAR	"R,V" 32V	MLS Head Gaskets. Includes intake gaskets. W/valve stem seals.
F281HS-S	281	4.6	90.20/3.551	DOHC	32	95-02	CAR	"R,V" 32V	MLS Head Gaskets. Intake, plenum & valve cover gaskets not included (see below). W/valve stem seals.
F281HS-A	281	4.6	90.20/3.551	SOHC	16	95-95	CAR	"6,9,V,W,X" 16V	"W". MLS Head Gaskets. Cougar & T-Bird with "straight" valve guides. With OE type tophat valve stem seals.
F281HS-B	281	4.6	90.20/3.551	SOHC	16	95-95	CAR	"6,9,V,W,X" 16V	"W". MLS Head Gaskets. With "straight" valve guides. Ex.Cougar & T-Bird.
F281HS-B	281	4.6	90.20/3.551	SOHC	16	96-00	CAR	"6,9,V,W,X" 16V	"W", "9 CNG". MLS Head Gaskets. With OE type tophat valve stem seals.
F281HS-B	281	4.6	90.20/3.551	SOHC	16	96-98	CAR	"6,9,V,W,X" 16V	"X". MLS Head Gaskets. With OE type tophat valve stem seals.
F281HS-D	281	4.6	90.20/3.551	SOHC	16	97-00	TRUCK, VAN, SUV	"6,W" 16V	"6". MLS Head Gaskets. W/valve stem seals. Intake gaskets not included.
F281HS-E	281	4.6	90.20/3.551	SOHC	16	97-00	TRUCK, VAN, SUV	"6,W" 16V	"W". MLS Head Gaskets. W/valve stem seals. Intake gaskets not included.
F281HS-C	281	4.6	90.20/3.551	SOHC	16	99-00	CAR	"6,9,V,W,X" 16V	"X, 6". MLS Head Gaskets. With OE type tophat valve stem seals.
F281HS-J	281	4.6	90.20/3.551	SOHC	16	01-01	TRUCK, VAN, SUV	"6,W" 16V	"W". MLS Head Gaskets. W/valve stem seals.
F281HS-K	281	4.6	90.20/3.551	SOHC	16	01-01	CAR	"6,9,V,W,X" 16V	"X" Ex. Bullitt. MLS Head Gaskets. With OE type tophat valve stem seals.
F281HS-K	281	4.6	90.20/3.551	SOHC	16	01-02	CAR	"6,9,V,W,X" 16V	"W", "9 CNG". MLS Head Gaskets. With OE type tophat valve stem seals.
F281HS-L	281	4.6	90.20/3.551	SOHC	16	01-03	TRUCK, VAN, SUV	"6,W" 16V	"6". MLS Head Gaskets. W/valve stem seals.
F281HS-N	281	4.6	90.20/3.551	SOHC	16	02-02	TRUCK, VAN, SUV	"6,W" 16V	"W". E150/250, Expedition, F150. Contains V/C gaskets w/o bolt hole "eyelets". MLS Head Gaskets. W/valve stem seals.
F281HS-N	281	4.6	90.20/3.551	SOHC	16	02-02	TRUCK, VAN, SUV	"6,W" 16V	"W". Explorer/Mountaineer. Thru 5/4/02. Contains V/C gaskets w/o bolt hole "eyelets". MLS Head Gaskets. W/valve stem seals.
F281HS-P	281	4.6	90.20/3.551	SOHC	16	02-03	TRUCK, VAN, SUV	"6,W" 16V	"W". Ex. Explorer & Mountaineer. Contains V/C gaskets with bolt hole "eyelets". MLS Head Gaskets. W/valve stem seals.
F281HS-M	281	4.6	90.20/3.551	SOHC	16	02-04	CAR	"6,9,V,W,X" 16V	"X". MLS Head Gaskets. W/valve stem seals.
F281HS-T	281	4.6	90.20/3.551	SOHC	16	02-05	TRUCK, VAN, SUV	"6,W" 16V	"W". Explorer/Mountaineer. From 5/5/02. Contains V/C gaskets with bolt hole "eyelets". MLS Head Gaskets.
F4.6HS-A	281	4.6	90.20/3.551	SOHC	16	02-05	TRUCK, VAN, SUV	"6,W" 16V	"W". Explorer/Mountaineer. From 5/5/02. Contains V/C gaskets with bolt hole "eyelets". MLS Head Gaskets. W/valve stem seals.



HIGH PERFORMANCE FORD MODULAR EDITION

O.E. STYLE HEAD GASKET SETS (cont'd)

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
F281HS-M	281	4.6	90.20/3.551	SOHC	16	03-03	CAR	"6,9,V,W,X" 16V	"W,9". MLS Head Gaskets. W/valve stem seals.
F281HS-S	281	4.6	90.20/3.551	DOHC	32	03-04	CAR	"R,V" 32V	"V". MLS Head Gaskets. Intake, plenum & valve cover gaskets not included (see below). W/valve stem seals.
F281HS-R	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	"H". MLS Head Gaskets. Includes intake gaskets. W/valve stem seals.
F281HS-M	281	4.6	90.20/3.551	SOHC	16	04-04	CAR	"6,9,V,W,X" 16V	"W". Town car. MLS Head Gaskets. W/valve stem seals.
F281HS-P	281	4.6	90.20/3.551	SOHC	16	04-04	TRUCK, VAN, SUV	"6,W" 16V	"W". Expedition. Contains V/C gaskets with bolt hole "eyelets". MLS Head Gaskets. W/valve stem seals.
F281HS-T	281	4.6	90.20/3.551	SOHC	16	04-04	CAR	"6,9,V,W,X" 16V	"W". Ex. Town car. MLS Head Gaskets. W/valve stem seals.
F4.6HS-A	281	4.6	90.20/3.551	SOHC	16	04-04	CAR	"6,9,V,W,X" 16V	"W". Ex. Town car. MLS Head Gaskets. W/valve stem seals.
F281HS-U	281	4.6	90.20/3.551	SOHC	16	04-08	TRUCK, VAN, SUV	"6,W" 16V	"W". E150/250, F150/250. MLS Head Gaskets. W/valve stem seals.
F4.6HS-A	281	4.6	90.20/3.551	SOHC	16	04-08	TRUCK, VAN, SUV	"6,W" 16V	"W". E150/250, F150/250. MLS Head Gaskets. W/valve stem seals.
F281HS-V	281	4.6	90.20/3.551	SOHC	24	05-05	CAR	"H" 24V	MLS head gaskets. W/valve stem seals.
F281HS-T	281	4.6	90.20/3.551	SOHC	16	05-08	CAR	"6,9,V,W,X" 16V	"W,V". MLS Head Gaskets. W/valve stem seals.
F4.6HS-A	281	4.6	90.20/3.551	SOHC	16	05-08	CAR	"6,9,V,W,X" 16V	"W,V". MLS Head Gaskets. W/valve stem seals.
F281HS-W	281	4.6	90.20/3.551	SOHC	24	06-06	CAR	"H" 24V	MLS head gaskets. W/valve stem seals.
F281HS-X	281	4.6	90.20/3.551	SOHC	24	06-06	TRUCK, VAN, SUV	"8" 24V	W/valve stem seals. MLS head gaskets.
F281HS-Y	281	4.6	90.20/3.551	SOHC	24	07-08	TRUCK, VAN, SUV	"8" 24V	W/valve stem seals. MLS head gaskets.
F281HS-Z	281	4.6	90.20/3.551	SOHC	24	07-09	CAR	"H" 24V	MLS head gaskets. W/valve stem seals.
F330HS-G	330	5.4	90.20/3.551	SOHC	16	99-01	TRUCK, VAN, SUV	"3" 16V S/C	To 12/04/00. W/valve stem seals. Plenum not included.
F330HS-E	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	MLS head gaskets. W/valve stem seals.
F330HS-B	330	5.4	90.20/3.551	SOHC	16	00-03	TRUCK, VAN, SUV	"L,M,Z" 16V	"L,M,Z". W/valve stem seals. MLS Head Gaskets.
F330HS-H	330	5.4	90.20/3.551	SOHC	16	01-04	TRUCK, VAN, SUV	"3" 16V S/C	From 12/05/00. W/valve stem seals.
F330HS-B	330	5.4	90.20/3.551	SOHC	16	04-04	TRUCK, VAN, SUV	"L,M,Z" 16V	"L". F-Series. Thru 4/20/04. W/valve stem seals. MLS Head Gaskets.
F330HS-B	330	5.4	90.20/3.551	SOHC	16	04-04	TRUCK, VAN, SUV	"L,M,Z" 16V	"L". Expedition. Thru 5/20/04. W/valve stem seals. MLS Head Gaskets.
F330HS-B	330	5.4	90.20/3.551	SOHC	16	04-04	TRUCK, VAN, SUV	"L,M,Z" 16V	"M,Z". F-150 Heritage. W/valve stem seals. MLS Head Gaskets.
F330HS-L	330	5.4	90.20/3.551	SOHC	16	04-04	TRUCK, VAN, SUV	"L,M,Z" 16V	"L". F-Series. From 4/21/04. W/valve stem seals. MLS Head Gaskets.
F330HS-L	330	5.4	90.20/3.551	SOHC	16	04-04	TRUCK, VAN, SUV	"L,M,Z" 16V	"L". Expedition. From 5/21/04. W/valve stem seals. MLS Head Gaskets.
F330HS-B	330	5.4	90.20/3.551	SOHC	16	04-05	TRUCK, VAN, SUV	"L,M,Z" 16V	"L". Excursion. W/valve stem seals. MLS Head Gaskets.
F330HS-C	330	5.4	90.20/3.551	SOHC	16	04-06	TRUCK, VAN, SUV	"L,M,Z" 16V	"M,L". E-series. W/valve stem seals. MLS Head Gaskets.
F330HS-D	330	5.4	90.20/3.551	SOHC	24	04-06	TRUCK, VAN, SUV	"5,V" 24V	MLS Head Gaskets. W/valve stem seals.
F330HS-F	330	5.4	90.20/3.551	SOHC	24	07-09	TRUCK, VAN, SUV	"5,V" 24V	MLS Head Gaskets. W/valve stem seals.
F330HS-J	330	5.4	90.20/3.551	SOHC	16	07-09	TRUCK, VAN, SUV	"L,M,Z" 16V	"L". W/valve stem seals. MLS Head Gaskets.
F330HS-K	330	5.4	90.20/3.551	SOHC	16	10-11	TRUCK, VAN, SUV	"L,M,Z" 16V	"L". W/valve stem seals. MLS Head Gaskets.
F415HS-A	415	6.8	90.20/3.551	SOHC	20	97-03	TRUCK, VAN, SUV	"S" 20V	MLS Head Gaskets. W/valve stem seals. Intake & plenum gaskets not included. Valve cover gaskets not included.
F415HS-B	415	6.8	90.20/3.551	SOHC	20	04-09	TRUCK, VAN, SUV	"S" 20V	MLS Head Gaskets. W/valve stem seals. Plenum gasket not incl.
F415HS-C	415	6.8	90.20/3.551	SOHC	30	05-06	TRUCK, VAN, SUV	"Y" 30V	MLS Head Gaskets. W/valve stem seals.
F415HS-D*	415	6.8	90.20/3.551	SOHC	30	07-09	TRUCK, VAN, SUV	"Y" 30V	MLS Head Gaskets. W/valve stem seals.



O.E. STYLE LOWER GASKET SETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
F281CS	281	4.6	90.20/3.551	SOHC	16	91-09	CAR	"6,9,V,W,X" 16V	"W, X, 6, 9, V". W/rear main seal. Timing cover gaskets not incl. Use head set for timing cover gaskets.
F281CS	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	"R, V". W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS	281	4.6	90.20/3.551	SOHC	16	97-98	TRUCK, VAN, SUV	"6,W" 16V	W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS-B	281	4.6	90.20/3.551	SOHC	16	99-01	TRUCK, VAN, SUV	"6,W" 16V	All. W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS-B	281	4.6	90.20/3.551	SOHC	16	99-04	CAR	"6,9,V,W,X" 16V	"X, 6". W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS-B	281	4.6	90.20/3.551	SOHC	16	02-03	TRUCK, VAN, SUV	"6,W" 16V	Ex. Explorer & Mountaineer. W/rear main seal. Timing cover gasket not included. Use head set for timing cover gasket.
F281CS	281	4.6	90.20/3.551	SOHC	16	02-05	TRUCK, VAN, SUV	"6,W" 16V	Explorer & Mountaineer. W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS	281	4.6	90.20/3.551	DOHC	32	03-04	CAR	"Y" 32V S/C	W/rear main seal. Timing cover gaskets not included.
F281CS	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS-B	281	4.6	90.20/3.551	SOHC	16	04-04	TRUCK, VAN, SUV	"6,W" 16V	E150, E250. W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS	281	4.6	90.20/3.551	SOHC	16	04-09	TRUCK, VAN, SUV	"6,W" 16V	Expedition, F150/250. W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS	281	4.6	90.20/3.551	SOHC	16	05-09	TRUCK, VAN, SUV	"6,W" 16V	E150/250. W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS-B	281	4.6	90.20/3.551	SOHC	24	05-09	CAR	"H" 24V	W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS-B	281	4.6	90.20/3.551	SOHC	24	06-09	TRUCK, VAN, SUV	"8" 24V	W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS-B	330	5.4	90.20/3.551	DOHC	32	99-02	TRUCK, VAN, SUV	"A,R" 32V	W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS-B	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	W/rear main seal. Timing cover gaskets not included.
F281CS-B	330	5.4	90.20/3.551	SOHC	16	99-11	TRUCK, VAN, SUV	"L,M,Z" 16V	W/rear main seal. Includes CNG. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS	330	5.4	90.20/3.551	DOHC	32	03-04	TRUCK, VAN, SUV	"A,R" 32V	W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F281CS-B	330	5.4	90.20/3.551	SOHC	24	04-09	TRUCK, VAN, SUV	"5,V" 24V	W/rear main seal. Timing cover gaskets not included. Use head set for timing cover gaskets.
F415CS-A	415	6.8	90.20/3.551	SOHC	20	97-09	TRUCK, VAN, SUV	"S" 20V	W/rear main seal.
F415CS-A	415	6.8	90.20/3.551	SOHC	30	05-09	TRUCK, VAN, SUV	"Y" 30V	W/rear main seal.

O.E. STYLE INTAKE MANIFOLD GASKETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
IF281-E	281	4.6	90.20/3.551	DOHC	32	93-94	CAR	"R,V" 32V	Lower intake set. MK VIII.
IF281-K	281	4.6	90.20/3.551	DOHC	32	93-94	CAR	"R,V" 32V	Plenum set. MK VIII.
IF281-K	281	4.6	90.20/3.551	DOHC	32	95-95	CAR	"R,V" 32V	Plenum set. Continental & MK VIII.
IF281-E	281	4.6	90.20/3.551	DOHC	32	95-96	CAR	"R,V" 32V	Lower intake set. Continental & MK VIII.
IF281-K	281	4.6	90.20/3.551	DOHC	32	96-97	CAR	"R,V" 32V	Plenum set. Continental.
IF281-M	281	4.6	90.20/3.551	DOHC	32	96-98	CAR	"R,V" 32V	Plenum set. MK VIII.
IF281	281	4.6	90.20/3.551	SOHC	16	97-97	TRUCK, VAN, SUV	"6,W" 16V	"6" Expedition. Thru 7/20/97. Includes plenum.
IF281-E	281	4.6	90.20/3.551	DOHC	32	97-97	CAR	"R,V" 32V	Lower intake set. Continental.
IF281	281	4.6	90.20/3.551	SOHC	16	97-98	TRUCK, VAN, SUV	"6,W" 16V	"W" Expedition. Includes plenum.
IF281-A	281	4.6	90.20/3.551	SOHC	16	97-98	TRUCK, VAN, SUV	"6,W" 16V	"6" Expedition. From 7/21/97. Plenum not included.



HIGH PERFORMANCE FORD MODULAR EDITION

O.E. STYLE INTAKE MANIFOLD GASKETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
IF281-F	281	4.6	90.20/3.551	DOHC	32	97-98	CAR	"R,V" 32V	Lower intake set. MK VIII.
IF281	281	4.6	90.20/3.551	SOHC	16	97-99	TRUCK, VAN, SUV	"6,W" 16V	E150/250. F150/250. Includes plenum.
IF281-G	281	4.6	90.20/3.551	DOHC	32	98-98	CAR	"R,V" 32V	Lower intake set. Continental.
IF281-L	281	4.6	90.20/3.551	DOHC	32	98-98	CAR	"R,V" 32V	Plenum set. Continental.
IF281-B	281	4.6	90.20/3.551	SOHC	16	99-00	CAR	"6,9,V,W,X" 16V	"X, 6". Plenum not included.
IF281-J	281	4.6	90.20/3.551	DOHC	32	99-02	CAR	"R,V" 32V	Lower intake set. All.
IF281-K	281	4.6	90.20/3.551	DOHC	32	99-02	CAR	"R,V" 32V	Plenum set. All.
IF281-B	281	4.6	90.20/3.551	SOHC	16	99-99	TRUCK, VAN, SUV	"6,W" 16V	Expedition. Power improved. Plenum not included.
IF281	281	4.6	90.20/3.551	SOHC	16	00-00	TRUCK, VAN, SUV	"6,W" 16V	Plenum not included.
IF281-B	281	4.6	90.20/3.551	SOHC	16	01-01	CAR	"6,9,V,W,X" 16V	"X". Ex. Bullitt. Plenum not included.
IF281-B	281	4.6	90.20/3.551	SOHC	16	01-03	CAR	"6,9,V,W,X" 16V	"9" CNG. Plenum not included.
IF281-B	281	4.6	90.20/3.551	SOHC	16	01-03	CAR	"6,9,V,W,X" 16V	"W". Plenum not included.
IF281-B	281	4.6	90.20/3.551	SOHC	16	01-03	TRUCK, VAN, SUV	"6,W" 16V	All. Plenum not included.
IF281-B	281	4.6	90.20/3.551	SOHC	16	02-04	CAR	"6,9,V,W,X" 16V	"X". Plenum not included.
IF281-H	281	4.6	90.20/3.551	DOHC	32	03-04	CAR	"R,V" 32V	Lower intake set. "V".
IF281-N	281	4.6	90.20/3.551	DOHC	32	03-04	CAR	"R,V" 32V	Plenum set. "V".
IF281-B	281	4.6	90.20/3.551	SOHC	16	04-04	CAR	"6,9,V,W,X" 16V	"W". Town car. Plenum not included.
IF281-B	281	4.6	90.20/3.551	SOHC	16	04-04	TRUCK, VAN, SUV	"6,W" 16V	F150 Heritage. Plenum not included.
IF281	330	5.4	90.20/3.551	SOHC	16	97-97	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. F150/250. Includes plenum.
IF281	330	5.4	90.20/3.551	SOHC	16	97-97	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. Expedition, E150/250/350. Thru 7/20/97 Includes plenum.
IF281	330	5.4	90.20/3.551	SOHC	16	97-97	TRUCK, VAN, SUV	"L,M,Z" 16V	CNG. F250. E150/250/350. Thru 7/20/97. Includes plenum.
IF281-A	330	5.4	90.20/3.551	SOHC	16	97-97	TRUCK, VAN, SUV	"L,M,Z" 16V	CNG. F250. E150/250/350. From 7/21/97. Plenum not included.
IF281-A	330	5.4	90.20/3.551	SOHC	16	97-97	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. E150/250/350. From 7/21/97. Plenum not included.
IF281-A	330	5.4	90.20/3.551	SOHC	16	97-98	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. Navigator. From 7/21/97. Plenum not included.
IF281-D	330	5.4	90.20/3.551	SOHC	16	97-98	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. Plenum gasket.
IF281	330	5.4	90.20/3.551	SOHC	16	98-98	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. Navigator. Thru 7/20/97. Includes plenum.
IF281-A	330	5.4	90.20/3.551	SOHC	16	98-98	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. F150/250. E350. Plenum not included.
IF281-A	330	5.4	90.20/3.551	SOHC	16	98-98	TRUCK, VAN, SUV	"L,M,Z" 16V	Bi-Fuel. Expedition, Navigator. E350. Plenum not included.
IF281-A	330	5.4	90.20/3.551	SOHC	16	98-98	TRUCK, VAN, SUV	"L,M,Z" 16V	CNG. E150/350. Plenum not included.
IF281-A	330	5.4	90.20/3.551	SOHC	16	98-99	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. E150/250. Plenum not included.
IF281-A	330	5.4	90.20/3.551	SOHC	16	98-99	TRUCK, VAN, SUV	"L,M,Z" 16V	Bi-Fuel. F150/250. E250. Plenum not included.
IF281-A	330	5.4	90.20/3.551	SOHC	16	98-99	TRUCK, VAN, SUV	"L,M,Z" 16V	CNG. F250. E250/350. Plenum not included.
IF281-A	330	5.4	90.20/3.551	SOHC	16	99-99	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. F250/350. E250/350. Plenum not included.
IF281-A	330	5.4	90.20/3.551	SOHC	16	99-99	TRUCK, VAN, SUV	"L,M,Z" 16V	Bi-Fuel. E250/350. Plenum not included.
IF281-A	330	5.4	90.20/3.551	SOHC	16	99-99	TRUCK, VAN, SUV	"L,M,Z" 16V	CNG. F150. E250/350. Plenum not included.
IF281-B	330	5.4	90.20/3.551	SOHC	16	99-99	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. Expedition, Navigator. F150/250. Plenum not included.
IF281-B	330	5.4	90.20/3.551	SOHC	16	99-99	TRUCK, VAN, SUV	"L,M,Z" 16V	Bi-Fuel. Navigator. Ex. engines with reduced coolant port.
IF281-C	330	5.4	90.20/3.551	SOHC	16	99-99	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. Plenum gasket. Expedition, Navigator, F150/250.
IF281-D	330	5.4	90.20/3.551	SOHC	16	99-99	TRUCK, VAN, SUV	"L,M,Z" 16V	Gasoline. Plenum gasket. F250/350 Super Duty. E150/250/350.
IF415	415	6.8	90.20/3.551	SOHC	20	97-98	TRUCK, VAN, SUV	"S" 20V	Lower set. Thru 7/19/98. Plenum not included.
IF415D	415	6.8	90.20/3.551	SOHC	20	97-98	TRUCK, VAN, SUV	"S" 20V	Plenum gasket. Thru 10/14/97.
IF415A	415	6.8	90.20/3.551	SOHC	20	98-99	TRUCK, VAN, SUV	"S" 20V	Lower set. From 7/20/98. Plenum not included.
IF415E	415	6.8	90.20/3.551	SOHC	20	98-99	TRUCK, VAN, SUV	"S" 20V	Plenum gasket. From 10/15/97.
IF415B	415	6.8	90.20/3.551	SOHC	20	00-00	TRUCK, VAN, SUV	"S" 20V	Lower set. Plenum not included.
IF415F	415	6.8	90.20/3.551	SOHC	20	00-03	TRUCK, VAN, SUV	"S" 20V	Plenum gasket.
IF415C	415	6.8	90.20/3.551	SOHC	20	01-08	TRUCK, VAN, SUV	"S" 20V	Lower set. Plenum not included.
IF415G	415	6.8	90.20/3.551	SOHC	20	04-08	TRUCK, VAN, SUV	"S" 20V	Plenum gasket.



REAR MAIN SEALS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
S4686	281	4.6	90.20/3.551	SOHC	16	91-09	CAR	"6,9,V,W,X" 16V	1pc. Offset Lip. Viton.
S4686	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	1pc. Offset Lip. Viton.
S4686	281	4.6	90.20/3.551	SOHC	16	97-09	TRUCK, VAN, SUV	"6,W" 16V	1pc. Offset Lip. Viton.
S4686	281	4.6	90.20/3.551	DOHC	32	03-04	CAR	"Y" 32V S/C	1pc. Offset Lip. Viton.
S4686	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	1pc. Offset Lip. Viton.
S4686	281	4.6	90.20/3.551	SOHC	24	05-09	CAR	"H" 24V	1pc. Offset Lip. Viton.
S4686	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	1pc. Offset Lip. Viton.
S4686	330	5.4	90.20/3.551	SOHC	16	97-11	TRUCK, VAN, SUV	"L,M,Z" 16V	1pc. Offset lip. Viton.
S4686	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	1pc. Offset lip. Viton.
S4686	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	1pc. Offset lip. Viton.
S4686	330	5.4	90.20/3.551	SOHC	24	04-09	TRUCK, VAN, SUV	"5,V" 24V	1pc. Offset lip. Viton.
S4686	415	6.8	90.20/3.551	SOHC	20	97-09	TRUCK, VAN, SUV	"S" 20V	1pc. Offset lip. Viton.
S4686	415	6.8	90.20/3.551	SOHC	30	05-09	TRUCK, VAN, SUV	"Y" 30V	1pc. Offset lip. Viton.

HEAD BOLT SETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
HB123	281	4.6	90.20/3.551	SOHC	16	91-09	CAR	"6,9,V,W,X" 16V	Two sets required.
HB123	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	Two sets required.
HB123	281	4.6	90.20/3.551	SOHC	16	97-09	TRUCK, VAN, SUV	"6,W" 16V	Two sets required.
HB123	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	Two sets required.
HB123	281	4.6	90.20/3.551	SOHC	24	05-09	CAR	"H" 24V	Two sets required.
HB123	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	Two sets required.
HB123	330	5.4	90.20/3.551	SOHC	16	97-09	TRUCK, VAN, SUV	"L,M,Z" 16V	Two sets required.
HB123	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	Two sets required.
HB123	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	Two sets required.
HB123	330	5.4	90.20/3.551	SOHC	24	04-09	TRUCK, VAN, SUV	"5,V" 24V	Two sets required.
HB199	415	6.8	90.20/3.551	SOHC	20	97-09	TRUCK, VAN, SUV	"S" 20V	Two sets required.
HB239	415	6.8	90.20/3.551	SOHC	30	05-09	TRUCK, VAN, SUV	"Y" 30V	Two sets required.

VALVE LIFTERS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
L4600-16	281	4.6	90.20/3.551	SOHC	16	91-11	CAR	"6,9,V,W,X" 16V	Hydraulic. Lash adjuster. (16 pack).
L4600-4	281	4.6	90.20/3.551	SOHC	16	91-11	CAR	"6,9,V,W,X" 16V	Hydraulic. Lash adjuster. (4 pack).
L4600-16	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	Hydraulic. Lash adjuster. (16 pack).
L4600-4	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	Hydraulic. Lash adjuster. (4 pack).
L4600-16	281	4.6	90.20/3.551	SOHC	16	97-10	TRUCK, VAN, SUV	"6,W" 16V	Hydraulic. Lash adjuster. (16 pack).
L4600-4	281	4.6	90.20/3.551	SOHC	16	97-10	TRUCK, VAN, SUV	"6,W" 16V	Hydraulic. Lash adjuster. (4 pack).
L4600-16	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	Hydraulic. Lash adjuster. (16 pack).
L4600-4	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	Hydraulic. Lash adjuster. (4 pack).
L2305-4	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	Hydraulic. Lash adjuster. (4 pack).
L2305-4	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	Hydraulic. Lash adjuster. (4 pack).
L4600-16	330	5.4	90.20/3.551	SOHC	16	97-11	TRUCK, VAN, SUV	"L,M,Z" 16V	Hydraulic. Lash adjuster. (16 pack).
L4600-4	330	5.4	90.20/3.551	SOHC	16	97-11	TRUCK, VAN, SUV	"L,M,Z" 16V	Hydraulic. Lash adjuster. (4 pack).
L4600-16	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	Hydraulic. Lash adjuster. (16 pack).
L4600-4	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	Hydraulic. Lash adjuster. (4 pack).
L5400-4	330	5.4	90.20/3.551	SOHC	24	04-04	TRUCK, VAN, SUV	"5,V" 24V	Hydraulic. Lash adjuster. To 8/04 only. Lifter plunger has no circular groove machined into the OD of the plunger. (4 pack).
L2305-4	330	5.4	90.20/3.551	SOHC	24	05-11	TRUCK, VAN, SUV	"5,V" 24V	Hydraulic. Lash adjuster. From 9/04. Lifter plunger has a circular groove machined into the OD of the plunger. (4 pack).
L4600-16	415	6.8	90.20/3.551	SOHC	20	97-09	TRUCK, VAN, SUV	"S" 20V	Hydraulic. Lash adjuster. (16 pack).
L4600-4	415	6.8	90.20/3.551	SOHC	20	97-09	TRUCK, VAN, SUV	"S" 20V	Hydraulic. Lash adjuster. (4 pack).
L2305-4	415	6.8	90.20/3.551	SOHC	30	05-10	TRUCK, VAN, SUV	"Y" 30V	Hydraulic. Lash adjuster. (4 pack).



HIGH PERFORMANCE FORD MODULAR EDITION

OIL PUMPS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
EP176	281	4.6	90.20/3.551	SOHC	16	91-10	CAR	"6,9,V,W,X" 16V	All with 0.820" inlet hole.
EP176	281	4.6	90.20/3.551	DOHC	32	93-94	CAR	"R,V" 32V	"V". Romeo. 0.820" pump inlet hole.
EP227	281	4.6	90.20/3.551	DOHC	32	96-04	CAR	"R,V" 32V	0.945" pump inlet hole.
EP176	281	4.6	90.20/3.551	SOHC	16	97-10	TRUCK, VAN, SUV	"6,W" 16V	With 0.820" inlet hole. Ex. '05-06 F series.
EP227	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	.
EP340	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	.
EP340	281	4.6	90.20/3.551	SOHC	24	06-09	TRUCK, VAN, SUV	"8" 24V	.
EP176	330	5.4	90.20/3.551	SOHC	16	97-09	TRUCK, VAN, SUV	"L,M,Z" 16V	All with 0.820" inlet hole.
EP176	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	Use with 3/16" pickup screen.
EP176	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	.
EP340	330	5.4	90.20/3.551	SOHC	24	04-09	TRUCK, VAN, SUV	"5,V" 24V	.
EP340	330	5.4	90.20/3.551	SOHC	24	10-10	TRUCK, VAN, SUV	"5,V" 24V	Ford. Except F150 & Expedition.
EP227	415	6.8	90.20/3.551	SOHC	20	97-07	TRUCK, VAN, SUV	"S" 20V	E350, E450. Use with 15/16" pickup tube.
EP176	415	6.8	90.20/3.551	SOHC	20	99-09	TRUCK, VAN, SUV	"S" 20V	Excursion F250, F350, F450, F550 Super Duty. Use w/ 13/16" pickup tube.
EP176	415	6.8	90.20/3.551	SOHC	30	05-09	TRUCK, VAN, SUV	"Y" 30V	.
EP176	415	6.8	90.20/3.551	SOHC	20	08-09	TRUCK, VAN, SUV	"S" 20V	E350, E450. Use with 13/16" pickup tube.

O.E.STYLE PISTON RING SETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
S90228	281	4.6	90.20/3.551	SOHC	16	91-10	CAR	"6,9,V,W,X" 16V	Premium. Steel or ductile top. 1.5 / 1.5 / 3.0mm. All Romeo & Windsor. Includes CNG.
S90228	281	4.6	90.20/3.551	DOHC	32	93-97	CAR	"R,V" 32V	Premium. Steel or ductile top. 1.5 / 1.5 / 3.0mm.
S90228	281	4.6	90.20/3.551	SOHC	16	97-10	TRUCK, VAN, SUV	"6,W" 16V	Premium. Steel or ductile top. 1.5/1.5/3.0mm. All Romeo & Windsor.
S90238	281	4.6	90.20/3.551	DOHC	32	98-04	CAR	"R,V" 32V	Premium. Steel top. 1.2 / 1.5 / 3.0mm.
S90228	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	Premium. Steel or ductile top. 1.5/1.5/3.0mm. Does not fit OE pistons.
S90228	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	Premium. Steel or ductile top. 1.5 / 1.5 / 3.0mm.
S90228	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	Premium. Steel or ductile top. 1.5 / 1.5 / 3.0mm.
S90228	330	5.4	90.20/3.551	SOHC	16	97-10	TRUCK, VAN, SUV	"L,M,Z" 16V	Premium. Steel or ductile top. 1.5 / 1.5 / 3.0mm. Includes CNG.
S90228	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	Premium. Steel or ductile top. 1.5 / 1.5 / 3.0mm.
S90228	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	Premium. Steel or ductile top. 1.5 / 1.5 / 3.0mm.
S90228	330	5.4	90.20/3.551	SOHC	24	04-10	TRUCK, VAN, SUV	"5,V" 24V	Premium. Steel or ductile top. 1.5 / 1.5 / 3.0mm.
S902210	415	6.8	90.20/3.551	SOHC	20	97-10	TRUCK, VAN, SUV	"S" 20V	Premium. Steel or ductile top. 1.5 / 1.5 / 3.0mm.
S902210	415	6.8	90.20/3.551	SOHC	30	05-10	TRUCK, VAN, SUV	"Y" 30V	Premium. Steel or ductile top. 1.5 / 1.5 / 3.0mm.

O.E. STYLE PISTON SETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
P1578(8)	281	4.6	90.20/3.551	SOHC	16	91-95	CAR	"6,9,V,W,X" 16V	Dish top .150" x 2.420". 1.200" CH. Hyper. Coated skirt. Press fit piston pin. Use S90228 rings.
P1578(8)	281	4.6	90.20/3.551	SOHC	16	96-00	CAR	"6,9,V,W,X" 16V	"W,X". Dish top .150" x 2.420". 1.200" CH. Hyper. Coated skirt. Press fit piston pin. Ex. CNG. Use S90228 rings.
P3064(8)	281	4.6	90.20/3.551	SOHC	16	96-00	CAR	"6,9,V,W,X" 16V	"X,6". Dish top .159" x 2.697". 1.211" CH. Hyper. Coated skirt. Floating piston pin. Ex. CNG. Use S90228 rings.
P1578(8)	281	4.6	90.20/3.551	SOHC	16	97-00	TRUCK, VAN, SUV	"6,W" 16V	"W". Romeo engines using press fit piston pin. Dish top. 1.200" CH. Hyper. Coated skirt. Use S90228 rings.
P3064(8)	281	4.6	90.20/3.551	SOHC	16	97-01	TRUCK, VAN, SUV	"6,W" 16V	"6". Windsor Ex. Pl. Dish top .159" deep. 1.211" CH. Floating pin. Hyper. Coated skirt. Use S90228 rings.
P5013(8)	281	4.6	90.20/3.551	SOHC	16	00-02	CAR	"6,9,V,W,X" 16V	"X,6". With PI heads. Dish top .193" x 2.920". 1.210" CH. Hyper. Coated skirt. Floating piston pin. Use S90228 rings.
P5013(8)	281	4.6	90.20/3.551	SOHC	16	00-03	TRUCK, VAN, SUV	"6,W" 16V	"6". Windsor Pl. Dish top .193" deep. 1.210" CH. Floating pin. Hyper. Coated skirt. Use S90228 rings.



O.E. STYLE PISTON SETS (cont'd)

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
P5039(8)	281	4.6	90.20/3.551	SOHC	16	01-03	CAR	"6,9,V,W,X" 16V	"W" Romeo. Dish top .150" x 3.050". 1.215" CH. Hyper. Coated skirt. Press fit piston pin. Ex. CNG. Use S90228 rings.
P5039(8)	281	4.6	90.20/3.551	SOHC	16	01-07	TRUCK, VAN, SUV	"6,W" 16V	"W". Romeo. Dish top .150" deep. 1.210" CH. Hyper. Coated skirt. Use S90228 rings. Press fit piston pin.
P5066(8)	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	Flat top 1.210" CH. Hyper. Coated skirt. Floating pin. Use S90228 rings.
P5013(8)	281	4.6	90.20/3.551	SOHC	16	04-10	CAR	"6,9,V,W,X" 16V	"W,V". Dish top .193" x 2.920". 1.210" CH. Hyper. Coated skirt. Floating piston pin. Use S90228 rings.
P5056(8)	281	4.6	90.20/3.551	SOHC	24	05-09	CAR	"H" 24V	Dish top .051" deep. 1.200" CH. Anodized head. Coated skirts. Use S90228 rings.
P5056(8)	281	4.6	90.20/3.551	SOHC	24	06-09	TRUCK, VAN, SUV	"8" 24V	Dish top .051" deep. 1.200" CH. Anodized head. Coated skirts. Use S90228 rings.
P3057(8)	330	5.4	90.20/3.551	SOHC	16	97-05	TRUCK, VAN, SUV	"L,M,Z" 16V	Ex. CNG & Power Imp. Dish top .069" deep. 1.210" CH. Hyper. Coated skirt. Use S90228 rings.
P5014(8)	330	5.4	90.20/3.551	SOHC	16	97-05	TRUCK, VAN, SUV	"L,M,Z" 16V	Power Improved. Ex. CNG Dish top .136" deep. 1.210" CH. Hyper. Coated skirt. Includes Bi-Fuel. Use S90228 rings.
P3057(8)	330	5.4	90.20/3.551	DOHC	32	99-02	TRUCK, VAN, SUV	"A,R" 32V	Ex. PI. Dish top .069" deep. 1.210" CH. Hyper. Coated skirt. Use S90228 rings.
P5066(8)	330	5.4	90.20/3.551	DOHC	32	99-02	TRUCK, VAN, SUV	"A,R" 32V	"A, R". PI. Flat top. 1.210" CH. Hyper. Coated skirt. Use S90228 rings.
P3057(8)	330	5.4	90.20/3.551	SOHC	16	99-03	TRUCK, VAN, SUV	"3" 16V S/C	Except Power Improved. Dish top 0.069" deep. 1.210" CH. Hyper. Coated skirt. Use S90228 rings.
P5014(8)	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	Power Improved. Dish top 0.136" deep. 1.210" CH. Hyper. Coated skirt. Use S90228 rings.
P5066(8)	330	5.4	90.20/3.551	DOHC	32	04-04	TRUCK, VAN, SUV	"A,R" 32V	"R". PI. Flat top. 1.210" CH. Hyper. Coated skirt. Use S90228 rings.
P5028(8)	330	5.4	90.20/3.551	SOHC	16	04-07	TRUCK, VAN, SUV	"L,M,Z" 16V	Flat top. 1.209 CH. Ex. CNG Hyper. Coated skirt. Anodized top. Use S90228 rings.
P5028(8)	330	5.4	90.20/3.551	SOHC	24	04-10	TRUCK, VAN, SUV	"5,V" 24V	Flat top. 1.209" CH. Hyper. Coated skirt. Anodized top ring groove. Ex. S/C or Flex fuel. Use S90228 rings.
P3057(10)	415	6.8	90.20/3.551	SOHC	20	97-06	TRUCK, VAN, SUV	"S" 20V	Dish top .069" deep. 1.210" CH. Except "Power Improved". Hyper. Coated skirt. Use S902210 rings.
P5014(10)	415	6.8	90.20/3.551	SOHC	20	00-08	TRUCK, VAN, SUV	"S" 20V	Dish top .136" deep. 1.210" CH. "Power Improved". Coated skirt. With floating pin. Use S902210 rings.
P5014(10)	415	6.8	90.20/3.551	SOHC	30	05-09	TRUCK, VAN, SUV	"Y" 30V	Dish top .136" deep. 1.210" CH. "Power Improved". Coated skirt. With floating pin. Use S902210 rings.

PISTON PIN BUSHING SETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
EB002-8	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	Pin bushing set. Copper-lead. Requires boring.
EB002-8	281	4.6	90.20/3.551	SOHC	16	96-04	CAR	"6,9,V,W,X" 16V	Pin bushing set. Copper-lead. Requires boring.
EB002-8	281	4.6	90.20/3.551	SOHC	16	97-09	TRUCK, VAN, SUV	"6,W" 16V	Pin bushing set. Copper-lead. Requires boring.
EB002-8	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	Pin bushing set. Copper-lead. Requires boring.
EB002-8	281	4.6	90.20/3.551	SOHC	24	05-09	CAR	"H" 24V	Pin bushing set. Copper-lead. Requires boring.
EB002-8	330	5.4	90.20/3.551	SOHC	16	97-04	TRUCK, VAN, SUV	"L,M,Z" 16V	Pin bushing set. Copper-lead. Requires boring.
EB002-8	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	Pin bushing set. Copper-lead. Requires boring.
EB002-8	330	5.4	90.20/3.551	SOHC	24	04-05	TRUCK, VAN, SUV	"5,V" 24V	Pin bushing set. Copper-lead. Requires boring.
EB002-10	415	6.8	90.20/3.551	SOHC	20	97-04	TRUCK, VAN, SUV	"S" 20V	Pin bushing set. Copper-lead. Requires boring.

CAMSHAFT PHASER

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
SP8422	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	Cam phaser (VVT sprocket). LH & RH. Two required.
SP8422	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	Cam phaser (VVT sprocket). LH & RH. Two required.
SP8422	330	5.4	90.20/3.551	SOHC	24	05-10	TRUCK, VAN, SUV	"5,V" 24V	Cam phaser (VVT sprocket). LH & RH. Two required.



HIGH PERFORMANCE FORD MODULAR EDITION

TIMING SETS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
TS387G	281	4.6	90.20/3.551	SOHC	16	91-92	CAR	"6,9,V,W,X" 16V	Complete kit.
TS387S	281	4.6	90.20/3.551	SOHC	16	94-95	CAR	"6,9,V,W,X" 16V	Complete kit.
TS387SA	281	4.6	90.20/3.551	SOHC	16	96-01	CAR	"6,9,V,W,X" 16V	Complete kit. "W,6,9". Chain guides have (3) bolt holes. Crank sprocket has no protruding hub. Requires re-using old cam sprocket spacers
TS387SH	281	4.6	90.20/3.551	DOHC	32	96-02	CAR	"R,V" 32V	Complete kit less sprockets. "V".
TS387SA	281	4.6	90.20/3.551	SOHC	16	97-00	TRUCK, VAN, SUV	"6,W" 16V	Complete kit. "W" Romeo. Chain guides have (3) bolt holes. Crank sprocket has no protruding hub. Requires re-using old cam sprocket spacers.
TS387SB	281	4.6	90.20/3.551	SOHC	16	97-00	TRUCK, VAN, SUV	"6,W" 16V	Complete kit. "6" Windsor. Cam sprockets not included. Cam sprockets are integral with cams.
TS2200	281	4.6	90.20/3.551	SOHC	16	01-02	CAR	"6,9,V,W,X" 16V	Complete kit. "W, X, 9". Thru 10/02. Chain guides have (2) bolt holes. Crank sprocket has a protruding hub. Tensioners are cast iron.
TS2200	281	4.6	90.20/3.551	SOHC	16	01-02	TRUCK, VAN, SUV	"6,W" 16V	Complete kit. "W, 6". Thru 10/02. Chain guides have (2) bolt holes. Crank sprocket has a protruding hub. Tensioners are cast iron.
TS387SG	281	4.6	90.20/3.551	SOHC	16	02-07	TRUCK, VAN, SUV	"6,W" 16V	Complete kit. "W, 6". From 10/02. Chain guides have (2) bolt holes. Crank sprocket has a protruding hub. Tensioners are composite.
TS387SG	281	4.6	90.20/3.551	SOHC	16	02-09	CAR	"6,9,V,W,X" 16V	Complete kit. "W, X, 9, V". From 11/02. Chain guides have (2) bolt holes. crank sprocket has a protruding hub. Tensioners are composite.
TS387SJ	281	4.6	90.20/3.551	DOHC	32	03-04	CAR	"R,V" 32V	Complete kit less sprockets. "R,V".
TS387SJ	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	"H". Complete kit less sprockets.
TS387SE	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	Complete kit less cam sprockets.
TS387SE	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	Complete kit less cam sprockets.
TS1500	330	5.4	90.20/3.551	SOHC	16	97-00	TRUCK, VAN, SUV	"L,M,Z" 16V	Complete kit. Includes CNG. No cam sprockets included. Cam sprockets are integral with cams. Crank sprocket does not have hub.
TS1500	330	5.4	90.20/3.551	SOHC	16	99-00	TRUCK, VAN, SUV	"3" 16V S/C	Complete kit. No cam sprockets included. Cam sprockets are integral with cams. Crank sprocket does not have hub.
TS2391	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	Timing set. W/O sprockets. Includes secondary tensioners.
TS391SA	330	5.4	90.20/3.551	SOHC	16	01-01	TRUCK, VAN, SUV	"L,M,Z" 16V	Complete kit. Includes CNG. No cam sprockets included. Cam sprockets are integral with cams. Crank sprocket has hub. Tensioners are cast iron.
TS391SA	330	5.4	90.20/3.551	SOHC	16	01-01	TRUCK, VAN, SUV	"3" 16V S/C	Complete kit. Includes CNG. No cam sprockets included. Cam sprockets are integral with cams. Crank sprocket has hub. Tensioners are cast iron.
TS391SB	330	5.4	90.20/3.551	SOHC	16	02-04	TRUCK, VAN, SUV	"3" 16V S/C	Complete kit. No cam sprockets included. Cam sprockets are integral with cams. Crank sprocket has hub. Tensioners are composite.
TS391SB	330	5.4	90.20/3.551	SOHC	16	02-09	TRUCK, VAN, SUV	"L,M,Z" 16V	Complete kit. Includes CNG. No cam sprockets included. Cam sprockets are integral with cams. Crank sprocket has hub. Tensioners are composite.
TS391SB	330	5.4	90.20/3.551	SOHC	24	04-10	TRUCK, VAN, SUV	"5,V" 24V	Complete kit less camshaft sprockets.
TS391	415	6.8	90.20/3.551	SOHC	20	97-01	TRUCK, VAN, SUV	"S" 20V	Complete kit less balance shaft gears. Crank sprocket has no protruding hub.
TS391B	415	6.8	90.20/3.551	SOHC	20	02-04	TRUCK, VAN, SUV	"S" 20V	Complete kit less balance shaft gears. F Series & Excursion. Crank sprocket has a protruding hub.
TS391B	415	6.8	90.20/3.551	SOHC	20	02-10	TRUCK, VAN, SUV	"S" 20V	Complete kit less balance shaft gears. E Series. Crank sprocket has a protruding hub.
TS391SD	415	6.8	90.20/3.551	SOHC	30	05-10	TRUCK, VAN, SUV	"Y" 30V	Complete kit less sprockets.



EXHAUST VALVES

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
V2421	281	4.6	90.20/3.551	SOHC	16	91-00	CAR	"6,9,V,W,X" 16V	Ex. CNG or LPG. .2737" stem. 1.339" head. 4.622" long.
V2843	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	.2740" stem. 1.181" head.
V2843	281	4.6	90.20/3.551	DOHC	32	93-05	TRUCK, VAN, SUV	"A,H" 32V	.2740" stem. 1.181" head.
V2421S	281	4.6	90.20/3.551	SOHC	16	96-04	CAR	"6,9,V,W,X" 16V	CNG & LPG. .2740" stem. 1.339" head. 4.622" long. Stellite.
V2421	281	4.6	90.20/3.551	SOHC	16	97-99	TRUCK, VAN, SUV	"6,W" 16V	.2737" stem. 1.339" head. 4.622" long. Ex. CNG or LPG.
V2421S	281	4.6	90.20/3.551	SOHC	16	97-99	TRUCK, VAN, SUV	"6,W" 16V	.2740" stem. 1.339" head. Stellite. 4.622" long. CNG & LPG.
V3005	281	4.6	90.20/3.551	SOHC	16	99-11	CAR	"6,9,V,W,X" 16V	Ex. CNG or LPG. PI. .2740" stem. 1.417" head. 4.679" long.
V3005S	281	4.6	90.20/3.551	SOHC	16	99-11	CAR	"6,9,V,W,X" 16V	CNG & LPG. PI. .2740" stem. 1.417" head. 4.679" long. Stellite.
V3005	281	4.6	90.20/3.551	SOHC	16	00-12	TRUCK, VAN, SUV	"6,W" 16V	.2740" stem. 1.417" head. 4.679" long. Ex. CNG or LPG.
V3005S	281	4.6	90.20/3.551	SOHC	16	00-12	TRUCK, VAN, SUV	"6,W" 16V	.2740" stem. 1.417" head. 4.679" long. Stellite. CNG & LPG.
V4377	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	.2346" stem. 1.476" head. EV-16 Hi-grade stainless. Includes Flex-Fuel.
V4377	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	.2346" stem. 1.476" head. EV-16 Hi-grade stainless. Includes Flex-Fuel.
V2421	330	5.4	90.20/3.551	SOHC	16	97-00	TRUCK, VAN, SUV	"L,M,Z" 16V	Ex. CNG or Bi-Fuel. .2737" stem. 1.339" head. 4.622" long.
V2421S	330	5.4	90.20/3.551	SOHC	16	97-00	TRUCK, VAN, SUV	"L,M,Z" 16V	CNG. .2740" stem. 1.339" head. Stellite. 4.622" long.
V2421	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"L,M,Z" 16V	S/C. .2737" stem. 1.339" head. 4.622" long.
V2421	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	.2737" stem. 1.339" head. 4.622" long.
V2843	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	.2740" stem. 1.181" head.
V3005	330	5.4	90.20/3.551	SOHC	16	99-11	TRUCK, VAN, SUV	"L,M,Z" 16V	Ex. CNG or Bi-Fuel. .2740" stem. 1.417" head. 4.679" long.
V3005S	330	5.4	90.20/3.551	SOHC	16	99-11	TRUCK, VAN, SUV	"L,M,Z" 16V	CNG & Bi-Fuel. .2740" stem. 1.417" head. 4.679" long.
V4377	330	5.4	90.20/3.551	SOHC	24	04-11	TRUCK, VAN, SUV	"5,V" 24V	.2346" stem. 1.476" head. EV-16 Hi-grade stainless. Includes Flex-Fuel.
V2421	415	6.8	90.20/3.551	SOHC	20	97-99	TRUCK, VAN, SUV	"S" 20V	Ex. CNG or LPG. .2737" stem. 1.339" head. 4.622" long.
V2421S	415	6.8	90.20/3.551	SOHC	20	97-99	TRUCK, VAN, SUV	"S" 20V	CNG & LPG. .2740" stem. 1.339" head. 4.622" long. Stellite.
V3005	415	6.8	90.20/3.551	SOHC	20	99-11	TRUCK, VAN, SUV	"S" 20V	Ex. CNG & LPG. .2740" stem. 1.417" head. 4.679" long.
V3005S	415	6.8	90.20/3.551	SOHC	20	99-11	TRUCK, VAN, SUV	"S" 20V	CNG & LPG. .2740" stem. 1.417" head. 4.679" long. Stellite.
V4377	415	6.8	90.20/3.551	SOHC	30	05-10	TRUCK, VAN, SUV	"Y" 30V	.2346" stem. 1.476" head. EV-16 Hi-grade stainless. Includes Flex-Fuel.

INTAKE VALVES

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
V2388	281	4.6	90.20/3.551	SOHC	16	91-00	CAR	"6,9,V,W,X" 16V	Ex. CNG or LPG. .2746" stem. 1.752" head. 4.622" long.
V2838	281	4.6	90.20/3.551	DOHC	32	93-04	CAR	"R,V" 32V	.2750" stem. 1.456" head.
V2388S	281	4.6	90.20/3.551	SOHC	16	96-04	CAR	"6,9,V,W,X" 16V	CNG & LPG. .2750" stem. 1.752" head. Stellite. 4.622" long.
V2388	281	4.6	90.20/3.551	SOHC	16	97-99	TRUCK, VAN, SUV	"6,W" 16V	.2746" stem. 1.752" head. 4.622" long. Ex. CNG or LPG.
V2388S	281	4.6	90.20/3.551	SOHC	16	97-99	TRUCK, VAN, SUV	"6,W" 16V	.2750" stem. 1.752" head. Stellite. 4.622" long. CNG & LPG.
V3008	281	4.6	90.20/3.551	SOHC	16	99-11	CAR	"6,9,V,W,X" 16V	Ex. CNG or LPG. Power improved. .2750" stem. 1.752" head. 4.750" long.
V3008S	281	4.6	90.20/3.551	SOHC	16	99-11	CAR	"6,9,V,W,X" 16V	CNG & LPG. Power improved. .2750" stem. 1.752" head. 4.750" long.
V3008	281	4.6	90.20/3.551	SOHC	16	00-12	TRUCK, VAN, SUV	"6,W" 16V	.2750" stem. 1.752" head. 4.750" long. Ex. CNG or LPG.
V3008S	281	4.6	90.20/3.551	SOHC	16	00-12	TRUCK, VAN, SUV	"6,W" 16V	.2750" stem. 1.752" head. 4.750" long. CNG & LPG.
V2838	281	4.6	90.20/3.551	DOHC	32	03-05	TRUCK, VAN, SUV	"A,H" 32V	.2750" stem. 1.456" head.
V4376	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	.2356" stem. 1.331" head. Includes Flex-Fuel.
V4376	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	.2356" stem. 1.331" head. Includes Flex-Fuel.



HIGH PERFORMANCE FORD MODULAR EDITION

INTAKE VALVES (cont'd)

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
V2388	330	5.4	90.20/3.551	SOHC	16	97-00	TRUCK, VAN, SUV	"L,M,Z" 16V	Ex. CNG or Bi-Fuel. .2746" stem. 1.752" head. 4.622" long.
V2388S	330	5.4	90.20/3.551	SOHC	16	97-00	TRUCK, VAN, SUV	"L,M,Z" 16V	CNG & Bi-Fuel. .2750" stem. 1.752" head. Stellite. 4.622" long.
V2388	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"L,M,Z" 16V	S/C. .2746" stem. 1.752" head. 4.622" long.
V2388	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	.2746" stem. 1.752" head. 4.622" long.
V2838	330	5.4	90.20/3.551	DOHC	32	99-04	TRUCK, VAN, SUV	"A,R" 32V	.2750" stem. 1.456" head.
V3008	330	5.4	90.20/3.551	SOHC	16	99-11	TRUCK, VAN, SUV	"L,M,Z" 16V	Ex. CNG or Bi-fuel. .2750" stem. 1.750" head. 4.752" long.
V3008S	330	5.4	90.20/3.551	SOHC	16	99-11	TRUCK, VAN, SUV	"L,M,Z" 16V	CNG & Bi-fuel. .2750" stem. 1.750" head. 4.752" long. Includes S/C.
V4376	330	5.4	90.20/3.551	SOHC	24	04-11	TRUCK, VAN, SUV	"5,V" 24V	.2356" stem. 1.331" head. Includes Flex-Fuel.
V2388	415	6.8	90.20/3.551	SOHC	20	97-99	TRUCK, VAN, SUV	"S" 20V	Ex. CNG or LPG. .2746" stem. 1.752" head. 4.622" long.
V2388S	415	6.8	90.20/3.551	SOHC	20	97-99	TRUCK, VAN, SUV	"S" 20V	CNG & LPG. .2746" stem. 1.752" head. 4.622" long. Stellite.
V3008	415	6.8	90.20/3.551	SOHC	20	99-11	TRUCK, VAN, SUV	"S" 20V	Ex. CNG or LPG. .2750" stem. 1.752" head. 4.750" long.
V3008S	415	6.8	90.20/3.551	SOHC	20	99-11	TRUCK, VAN, SUV	"S" 20V	CNG & LPG. .2750" stem. 1.752" head. 4.750" long.
V4376	415	6.8	90.20/3.551	SOHC	30	05-10	TRUCK, VAN, SUV	"Y" 30V	.2356" stem. 1.331" head. Includes Flex-Fuel.

O.E. STYLE VALVE SPRINGS

PART #	CID	LITER	BORE	HEAD	VALVES	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
ERV1615	281	4.6	90.20/3.551	SOHC	16	96-98	CAR	"6,9,V,W,X" 16V	"X" Int. & Exh. 2.115" Free Ht. 1.040" bottom OD. (4 pack).
ERV1615	281	4.6	90.20/3.551	SOHC	16	96-99	CAR	"6,9,V,W,X" 16V	"6,9,V,W" Int. & Exh. 2.115" Free Ht. 1.040" bottom OD. (4 pack).
ERV1615	281	4.6	90.20/3.551	SOHC	16	97-99	TRUCK, VAN, SUV	"6,W" 16V	Int. & Exh. 2.115" Free Ht. 1.040" bottom OD. (4 pack).
ERV2487	281	4.6	90.20/3.551	SOHC	16	99-04	CAR	"6,9,V,W,X" 16V	"X" Int. & Exh. 2.101" Free Ht. 1.069" bottom OD. (4 pack).
ERV2487	281	4.6	90.20/3.551	SOHC	16	00-11	CAR	"6,9,V,W,X" 16V	"6,9,V,W" Int. & Exh. 2.101" Free Ht. 1.069" bottom OD. (4 pack).
ERV2487	281	4.6	90.20/3.551	SOHC	16	00-11	TRUCK, VAN, SUV	"6,W" 16V	Int. & Exh. 2.101" Free Ht. 1.069" bottom OD. (4 pack).
ERV1485	281	4.6	90.20/3.551	SOHC	24	05-10	CAR	"H" 24V	Int. & Exh. 2.169" Free Ht. Conical. (4 pack).
ERV1485	281	4.6	90.20/3.551	SOHC	24	06-10	TRUCK, VAN, SUV	"8" 24V	Int. & Exh. 2.169" Free Ht. Conical. (4 pack).
ERV1615	330	5.4	90.20/3.551	SOHC	16	97-99	TRUCK, VAN, SUV	"L,M,Z" 16V	Int. & Exh. 2.115" Free Ht. 1.040" bottom OD. (4 pack).
ERV2487	330	5.4	90.20/3.551	SOHC	16	99-04	TRUCK, VAN, SUV	"3" 16V S/C	Int. & Exh. 2.101" Free Ht. 1.069" bottom OD. (4 pack).
ERV2487	330	5.4	90.20/3.551	SOHC	16	00-11	TRUCK, VAN, SUV	"L,M,Z" 16V	Int. & Exh. 2.101" Free Ht. 1.069" bottom OD. (4 pack).
ERV1485	330	5.4	90.20/3.551	SOHC	24	04-11	TRUCK, VAN, SUV	"5,V" 24V	Int. & Exh. 2.169" Free Ht. Conical. (4 pack).
ERV1615	415	6.8	90.20/3.551	SOHC	20	97-99	TRUCK, VAN, SUV	"S" 20V	Int. & Exh. 2.115" Free Ht. 1.040" bottom OD. (4 pack).
ERV2487	415	6.8	90.20/3.551	SOHC	20	00-11	TRUCK, VAN, SUV	"S" 20V	Int. & Exh. 2.101" Free Ht. 1.069" bottom OD. (4 pack).
ERV1485	415	6.8	90.20/3.551	SOHC	30	05-10	TRUCK, VAN, SUV	"Y" 30V	Int. & Exh. 2.169" Free Ht. Conical. (4 pack).

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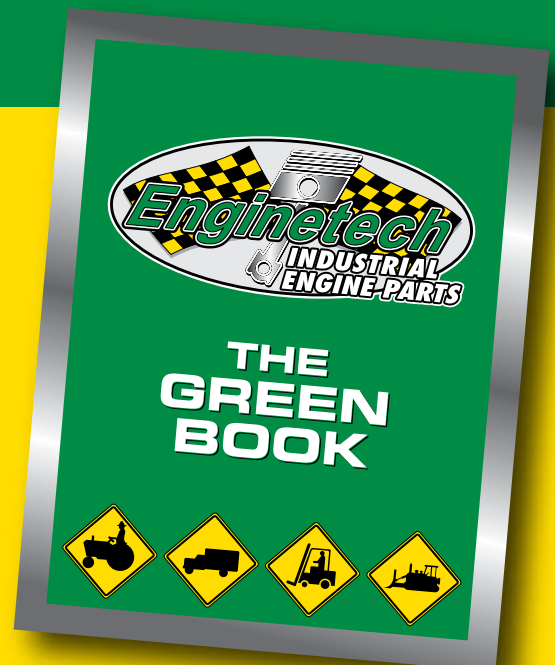
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