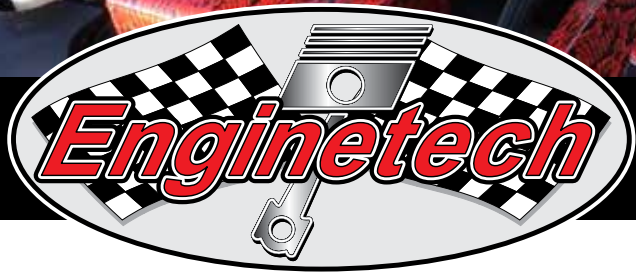


HIGH PERFORMANCE

**FORD
MODULAR
EDITION**



**WINTER
2014**



HIGH PERFORMANCE FORD MODULAR EDITION

Within these pages you'll find our best selling Ford Modular Parts for Professional Engine Builders.

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.

High Performance Return Policy

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



HIGH PERFORMANCE FORD MODULAR EDITION



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 Cobrajets, 13 Shelby GT500 5.8L, 08-09 Shelby GT500KR 5.4L



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

HIGH PERFORMANCE FORD MODULAR EDITION



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





HIGH PERFORMANCE FORD MODULAR EDITION



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

HIGH PERFORMANCE FORD MODULAR EDITION



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





HIGH PERFORMANCE FORD MODULAR EDITION



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 13/4" 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
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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
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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 13/4" 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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of High Performance brands - from
Classic to Modern Muscle!



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°



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



**HIGH PERFORMANCE
FORD MODULAR EDITION**



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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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

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 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.				ADVERTISED IN.	EX.	@ .050% 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.

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)

HIGH PERFORMANCE FORD MODULAR EDITION



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)

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												
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
XFI™ 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



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.

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 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

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

Except as noted, not legal for sale or use on pollution-controlled motor vehicles

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

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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

HIGH PERFORMANCE FORD MODULAR EDITION



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



HIGH PERFORMANCE FORD MODULAR EDITION



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
CB1442HXX	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
MS2007HXX	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
MS2202HXX	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
MS2259HXX	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



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



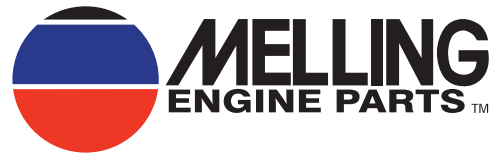
MAIN STUDS (SIDE BOLTS SOLD SEPERATELY)

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, naturan 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

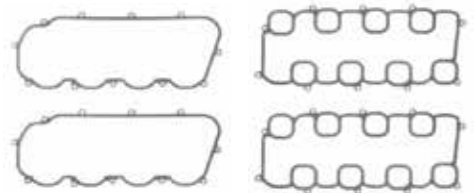


FEL-PRO PERMATORQUE MLS HEAD GASKETS

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.

HIGH PERFORMANCE FORD MODULAR EDITION



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 Pl 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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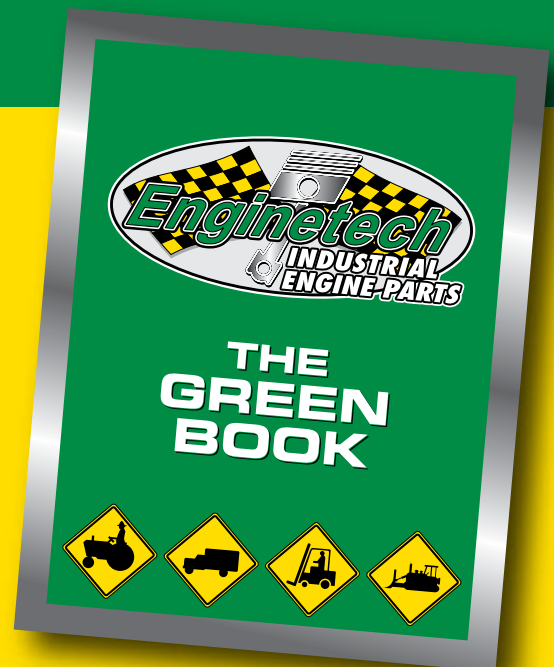
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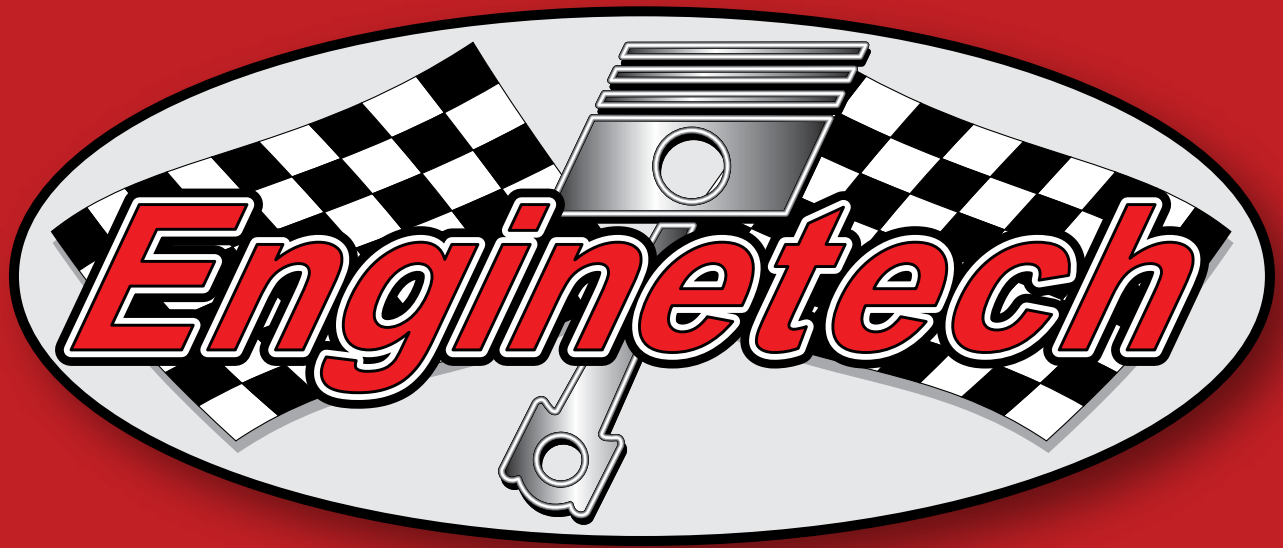
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HIGH PERFORMANCE
GM LS
EDITION



2015



GM LS ENGINE APPLICATION GUIDE

LS1		LS4	
DISPLACEMENT:	346 ci	DISPLACEMENT: 325 ci	376 ci
BLOCK:	Cast aluminum	BLOCK:	Cast aluminum
HEADS:	Aluminum 15-degree cathedral port	HEADS:	Aluminum 15-degree cathedral port
BORE/STROKE:	3.900 x 3.622	BORE/STROKE:	3.780 x 3.622
COMPRESSION:	10:1	COMPRESSION: 10:1	10.7:1
CAMSHAFT ('01+ F-body):	196/207 @ 0.050; 0.467/0.479; 116	OUTPUT:	290-303 hp and 325 lb-ft
OUTPUT:	305-350 hp and 335 375 lb-ft	WHAT IT'S IN:	'06+ Impala SS, '06-07 Monte Carlo SS, '05-08 Grand Prix GXP, '08+ LaCrosse
WHAT IT'S IN:	'98-02 F-body, '97-04 Corvette, '04 GTO	LS6	
GMPP PN:	17801267	DISPLACEMENT:	346 ci
LS2		BLOCK:	Cast aluminum
DISPLACEMENT:	364 ci	HEADS:	Aluminum 15-degree cathedral port
BLOCK:	Cast aluminum	BORE/STROKE:	3.900 x 3.622
HEADS:	Aluminum 15-degree cathedral port	COMPRESSION:	10.5:1
BORE/STROKE:	4.000 x 3.622	CAMSHAFT ('01):	204/211 @ 0.050; 0.525/0.525; 116
COMPRESSION:	10.9:1	CAMSHAFT ('02+):	204/218 @ 0.050; 0.555/0.551; 117.5
CAMSHAFT:	204/211 @ 0.050; 0.525/0.525; 116	OUTPUT:	385-405 hp and 385-400 lb-ft
OUTPUT:	400 hp and 400 lb-ft	WHAT IT'S IN:	'01-04 Corvette Z06, '04-05 CTS-V
WHAT IT'S IN:	'05-07 Corvette, '05-06 SSR and GTO, '06-07 CTS-V, '06-09 Trailblazer SS	GMPP PN:	17801268
GMPP PN:	19156261	LS7	
LS3/L92/L99		DISPLACEMENT:	427 ci
DISPLACEMENT:	376 ci	BLOCK:	Cast aluminum
BLOCK:	Cast aluminum	HEADS:	Aluminum 12-degree rectangle port
HEADS:	Aluminum 15-degree rectangle port	BORE/STROKE:	4.125 x 4.000
BORE/STROKE:	4.065 x 3.622	COMPRESSION:	11:1
COMPRESSION:	10.7:1	CAMSHAFT:	211/230 @ 0.050; 0.591/0.591; 120.5
CAMSHAFT (LS3):	204/211 @ 0.050; 0.551/0.525; 116	OUTPUT:	505 hp and 470 lb-ft
OUTPUT:	400-430 hp and 410-428 lb-ft	WHAT IT'S IN:	'06+ Corvette Z06
WHAT IT'S IN:	'08+ Corvette, '10 Camaro, '08+ G8 GTP (LS3), '07+ Escalade, Tahoe, Silverado, Yukon, Sierra, Hummer H2 (L92), '10 Camaro automatic (L99)	GMPP PN:	7802397
GMPP PN (LS3):	19201992		

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GM LS ENGINE APPLICATION GUIDE

LS9		LSA	
DISPLACEMENT:	376 ci	DISPLACEMENT:	376 ci
BLOCK:	Cast aluminum	BLOCK:	Cast aluminum
HEADS:	Aluminum 15-degree rectangle port	HEADS:	Aluminum 15-degree rectangle port
BORE/STROKE:	4.065 x 3.622	BORE/STROKE:	4.065 x 3.622
COMPRESSION:	9.1:1	COMPRESSION:	9.1:1
CAMSHAFT:	211/230 @ 0.050; 0.562/0.558; 122.5	OUTPUT:	556 hp and 551 lb-ft
OUTPUT:	638 hp and 604 lb-ft	WHAT IT'S IN:	'09+ CTS-V
WHAT IT'S IN:	'09+ Corvette ZR1	WHAT IT'S IN:	'09+ Corvette ZR1
GMPP PN:	19201990	GMPP PN:	19201990
LSQ4/LQ9		L76	
DISPLACEMENT:	364 ci	DISPLACEMENT:	364 ci
BLOCK:	Cast iron	BLOCK:	Cast aluminum
HEADS:	Aluminum or iron 15-degree cathedral port	HEADS:	Aluminum 15-degree rectangle port
BORE/STROKE:	4.000 x 3.622	BORE/STROKE:	4.000 x 3.622
COMPRESSION:	9.4:1-10:1	COMPRESSION:	10.4:1
CAMSHAFT	191/190 @ 0.050; 0.457/0.466;	OUTPUT:	366 hp and 376 lb-ft (trucks); 361 hp and 385 lb-ft (cars)
('99-00 LQ4):	114	WHAT IT'S IN:	'07+ Silverado, Sierra, Suburban, Yukon, Avalanche, and G8 GT
CAMSHAFT	196/207 @ 0.050; 0.467/0.479; 116	VORTEC 4800	
('01-04 LQ4 and LQ9):	'01-04 Corvette Z06, '04-05 CTS-V	DISPLACEMENT:	293 ci
OUTPUT:	300-347 hp and 360-380 lb-ft	BLOCK:	Cast iron or aluminum
WHAT IT'S IN:	'99-04 Silverado, Suburban, Yukon, and Hummer H2 (LQ4); '02-06 Escalade, '03-07 Silverado SS and Sierra (LQ9)	HEADS:	Iron or aluminum 15-degree cathedral port
GMPP PN (LQ9):	19156262	BORE/STROKE:	3.780 x 3.267
LY6		COMPRESSION:	9.5:1
DISPLACEMENT:	364 ci	OUTPUT:	270-295 hp and 285-305 lb-ft
BLOCK:	Cast iron	WHAT IT'S IN:	'99-06 Silverado, Tahoe, Yukon, and Sierra (LR4); '07+ Silverado, Tahoe, Yukon, and Sierra (LY2)
HEADS:	Aluminum 15-degree rectangle port	VORTEC 5300	
BORE/STROKE:	4.000 x 3.622	DISPLACEMENT:	325 ci
COMPRESSION:	9.67:1	BLOCK:	Cast iron or aluminum
OUTPUT:	352 hp and 382 lb-ft	HEADS:	Iron or aluminum 15-degree cathedral port
WHAT IT'S IN:	3/4-ton '07+ Silverado, Sierra, Suburban, and Yukon	BORE/STROKE:	3.780 x 3.622
		COMPRESSION:	9.5-10:1
		OUTPUT:	285-320 hp and 325-340 lb-ft
		WHAT IT'S IN:	'99+ mid/fullsize trucks and SUVs
		GMPP PN:	19165628



**HIGH PERFORMANCE
GM LS EDITION**



BIG MOUTH THROTTLE BODIES™

When it comes to improving performance, increased airflow is a key ingredient. Available in 92mm or 102mm diameters, the Big Mouth Throttle Body™ increases airflow through a series of innovative design changes and slightly enlarged throttle opening. Significant testing and engineering was conducted to optimize cross-sectional flow and eliminate airflow turbulence, especially at part-throttle operation.

The throttle blade's increased thickness eliminates deflection, especially in boosted applications. To improve throttle response, the blade pivot is offset, while the beefed up linkage and dual throttle spring mechanism ensure total throttle control.

Performance Material

- New throttle body designed to work in conjunction with the new FAST™ LSX™ 92mm & LSXR™ 102mm Intake Manifolds
- Better airflow than OEM or aftermarket 90mm units due to enlarged throttle opening & modified internal design
- Dual spring mechanism & beefed up linkage for total throttle control
- Increased thickness of both the throttle blade & the shaft resists deflection, especially in boosted applications
- Offset blade pivot allows for smoother operations & significantly improves throttle response



BIG MOUTH THROTTLE BODIES	
54102	102mm Big Mouth Throttle Body
54103	Cath. .090 3.34 x 1.190 97-04 Gen III/IV LS1
54020	Rect. .045 thick 2.7 x 1.35 08-10 L92
54092	Rect. .060 thick 2.7 x 1.35 08-10 L92
54095	Stock Port .045 thick LS7



LSX™ 92MM MANIFOLD

The patented FAST™ LSX™ 92mm Intake Manifold is a three-piece Gen III composite manifold proven to deliver increased performance without compromising bottom-end drivability or high rpm power. For both street and racing GM Gen III (LS1, -2 & -6) applications, this intake manifold is a bolt-on installation and is designed to work with the FAST™ Big Mouth 92mm Throttle Body™.

The FAST™ LSX™ 92mm Intake Manifold maintains the performance gains achieved over stock intake manifolds with no loss in drivability or low rpm torque. While it delivers terrific performance right out of the box, it can be ported for even more flow. The intake features the added benefits of corrosion-free stainless steel assembly bolts, an improved throttle body sealing flange and o-ring gasket and threaded insert throttle body mounts that provide increased durability.

Performance Material

- Increases horsepower over stock manifold with no loss of drivability or low rpm torque
- Incorporates high-quality polymer materials which resist heat sink effect of aluminum
- Maximizes potential of other popular engine performance upgrades such as cylinder heads



LSX™ 92MM INTAKE MANIFOLD	
54039B	LSX™ 92mm Intake Manifold (LS1, -2 & 6)
LSX™ 92MM INTAKE COMPONENTS	
54040	LSX™ 92mm Upper Shell (Rev J) (LS1, -2 & 6)
54035	LSX™ 92mm Lower Shell (Rev J) (LS1, -2 & 6)
54007	LSX™ 92mm Middle Shell (LS1, -2 & 6)
54036	LSX™ 92mm Middle Shell (Rev J) (LS1, -2 & 6)



HIGH PERFORMANCE GM LS EDITION



LSXRT™ 102MM MANIFOLD

Designed specifically for GM 4.8/5.3/6.0L cathedral port truck engines and cathedral port LS1, -2, -6 race applications where hood clearance is not a concern, the FAST™ LSXRT™102mm Intake Manifold follows the path chartered by the original FAST™ LSX™ Gen III Intake by featuring a modular design that allows for easy porting and disassembly and a runner design that yields an incredible 25 peak horsepower gain over the stock intake, on a stock 6.0L engine with a Big Mouth 102mm Throttle Body™. And similar to the LSXR™ 102mm Intake Manifold for cars, the LSXRT™ features the ability to remove individual runners for modification.

The LSXRT™ is constructed from a proprietary precision injection molded polymer which offers many benefits, including lighter weight, greater strength and lower heat soak propensity. While it features a 102mm air inlet that was designed for the FAST™ Big Mouth 102mm Throttle Body™, it can also be used with stock 90mm or aftermarket 92mm throttle bodies (78mm three-bolt throttle bodies require an adapter). Other features include integrated nitrous bungs and precise bolt-on fit that permits the use of factory accessories and OEM fuel/emission connections without adjustments or clearance issues. Some GM truck models may require the FAST™ 92mm or 102mm throttle body.



LSXRT™ 102MM INTAKE MANIFOLD	
146602	102mm Intake Manifold (Cathedral Port Only) (LS1, -2 & 6)

Performance Material

- Designed for 1997 and later GM 4.8/5.3/6.0L cathedral port truck engines and all LS1, -2, -6 based engines (race applications with appropriate cowl clearance)
- Multi-layer modular design with removable runners for easy disassembly & porting
- 102mm inlet works w/ 90, 92 or 102mm throttle bodies for high flow & minimal restriction
- Advanced polymer material is strong, lightweight & cools intake charge for enhanced power
- Big gains in rear-wheel hp yet retains factory fitments & under-hood clearance requirements



LSXR™ 102MM MANIFOLD

Airflow engineers at RHS® and the EFI specialists at FAST™ recently worked hand-in-hand to develop a superior intake manifold for GM LS performance applications. With models available for all the popular LS engines, the LSXR™ features a three-piece modular construction to allow for easy disassembly and porting. Extensive testing led to a runner design that was longer and less restrictive, allowing the removal of individual runners for modification. Regardless of the application, dyno testing has proven these manifolds deliver significant bolt-on performance gains in stock applications and gains upwards of 25+ horsepower in larger displacement or highly modified combinations.

Constructed from advanced polymer material, the LSXR™ is lighter, stronger and more heat resistant than comparable aluminum intakes. While it features a 102mm air inlet, it can be used with 90mm or 92mm throttle bodies. Other features include integrated nitrous bungs and perfect bolt-on fitment, allowing use of factory accessories without clearance issues.

Performance Material

- Available for GM LS1 (cathedral port), LS3 (rectangle port) & LS7 (raised rectangle port) engines
- 16+ hp gains with stock displacement & 26+ rwhp with larger cubic inch
- Removeable runners for easy porting
- Perfect bolt-on fitment allows for the use of OEM accessories
- 50 state legal

LSXR™ 102MM INTAKE MANIFOLD

146102	102mm Intake Manifold - LS3/L76/L92/L99
146202	102mm Intake Manifold - LS7
146302	102mm Intake Manifold - LS1/LS2/LS6 Cars

LSXR™ 102MM COMPONENTS

146000	102mm Upper Shell - L92/LS3/LS7
146001	102mm Lower Shell - L92/LS3
146201	102mm Lower Shell - LS7
146053	102mm Intake Manifold Replacement Runner Set - L92/LS3
146253	102mm Intake Manifold Replacement Runner Set - LS7

LSXR™ 102MM ACCESSORIES

146027-KIT	LSXR™ Fuel Rail Kit (Billet Style) LS3/L76/L92/L99/LS7
146033-KIT	LSXR™ Fuel Rail Kit (Billet Style) LS1/LS2/LS6 Cars
146020-KIT	LSXR™ Fuel Rail Kit (OEM Style) LS7
146025-KIT	LSXR™ Fuel Injector Spacer Kit (use with OEM Fuel Rails) - LS3/L76/L92/L99
146032-KIT	LSXR™ Fuel Rail Kit (Billet Style) - LS1/LS6
146021-KIT	LSXR™ Fuel Rail Kit (OEM Style) - LS1/LS6
54028FRC	Crossover Line for FAST™ LSXR™ Fuel Rails - LS1/LS2/LS3/LS6/LS7/L76/L99
146003-8	Intake Port Seal Replacements for LS3 LS3/L76/L92/L99
146203-8	Intake Port Seal Replacements for LS1 LS1/LS2/LS6 Cars
54028-KIT	LSXR™ Fuel Line Conversion Kit - LS1
54028G-KIT	LSXR™ Fuel Line Conversion Kit w/ Fuel Pressure Gauge ('98-'02 LS1 F-Bodies w/ FAST™ Fuel Rails) - LS1

LSXR™ 102MM ACCESSORIES

146030-KIT	OEM Fuel Rail Mounting Kit - (LS1, -2 & 6)
146028-KIT	LSXR™ Fuel Rail Kit (Billet Style) (LS1, -2 & 6)
146031-KIT	OEM Fuel Rail Mounting Kit (Square Metal) (LS1, -2 & 6)
146029-KIT	Throttle Body Adapter Plate Kit 102mm to 75mm (use with OEM throttle body) (LS1, -2 & 6)



HIGH PERFORMANCE GM LS EDITION



FAST INJECTORS

PART #	DESCRIPTION
30332-8	Precision-Flow LS2 Type, 33 lb/hr Injectors, USCAR Connectors
30462-8	Precision-Flow LS2 Type, 46 lb/hr Injectors, USCAR Connectors
30572-8	Precision-Flow LS2 Type, 57 lb/hr Injectors, USCAR Connectors
30859-8	Precision-Flow LS2 Type, 85 lb/hr Injectors, USCAR Connectors
30397-8	Precision-Flow LS/3/7/L99/L76 Type, 39 lb/hr Injectors, USCAR Connectors
30507-8	Precision-Flow LS/3/7/L99/L76 Type, 50 lb/hr Injectors, USCAR Connectors
30657-8	Precision-Flow LS/3/7/L99/L76 Type, 65 lb/hr Injectors, USCAR Connectors
30857-8	Precision-Flow LS/3/7/L99/L76 Type, 85 lb/hr Injectors, USCAR Connectors
303608	Precision-Flow 2.250" Height, 36 lb/hr Injectors, Minitimer Connectors
30608	Precision-Flow 2.250" Height, 60 lb/hr Injectors, Minitimer Connectors
30355-8	Precision-Flow 2.550" Height, 220 lb/hr L.I. Injectors, Minitimer Connectors



FUEL RAILS

PART #	DESCRIPTION
534-210	<p>LS Hi-Flow Fuel Rail Kit</p> <p>Fits: LS1/2/3/6/L99 Factory Intakes</p> <p>Bright dip, black anodized finish with laser etched EFI logo for long lasting good looks</p> <p>5/8" diameter fuel passage provides the flow capacity for high horsepower applications</p> <p>High volume fuel passage dampens fuel pressure oscillations</p> <p>Fuel rails are machined to accept -8 (3/4-16) O-ring fittings</p> <p>Includes (4) -6 to 3/4-16 O-ring adapters</p> <p>Fuel Rails Only Part# 534-209</p>



The FAST™ High Flow Billet Fuel Rails feature a larger internal diameter that dampens the pulses and provides increased fuel volume, ensuring that your injectors never run dry. In addition, they yield better fuel distribution and ultimately greater horsepower. Featuring high strength billet, lightweight, red anodized aluminum construction, FAST™ LS1 fuel rails deliver performance in addition to a show car quality appearance.

PART #	DESCRIPTION
54023	LSX LS1/6 Billet Fuel Rail Kit
54026	LSX LS2 OEM Fuel Rail/Injector Adapter Kit
146033-KIT	LSX LS2 Billet Fuel Rail Kit
146020-KIT	LSXR LS3/7 OEM Car Fuel Rail Kit
146027-KIT	LSXR LS3/7 Billet Fuel Rail Kit





GM LS Transplant Kits

The EZ-EFI GM LS Engine Transplant Kits allow anyone to easily run a GM LS Gen III/IV engine and transmission outside of the original vehicle and factory controller. Everything is covered, from fuel and spark to engine and electronic transmission. Optional package stages allow you to select the right level kit based on your individual needs.

EZ-EFI Engine Kit

PART #	DESCRIPTION
302002	EZ-EFI Engine Kit
302002T	EZ-EFI Engine Kit w/ In-Tank Fuel Pump
302002L	EZ-EFI Engine Kit w/ Inline Fuel Pump
302002-TCU	EZ-EFI Engine Kit w/ TCU
302002T-TCU	EZ-EFI Engine Kit w/ TCU & In-Tank Fuel Pump
302002L-TCU	EZ-EFI Engine Kit w/ TCU & Inline Fuel Pump



PART #	DESCRIPTION
302003	EZ-EFI Engine & Manifold Kit
302003T	EZ-EFI Engine & Manifold Kit w/ In-Tank Fuel Pump
302003L	EZ-EFI Engine & Manifold Kit w/ Inline Fuel Pump



EZ-EFI 2.0[®] GM LS Engine Transplant Kit

The new EZ-EFI 2.0[®] GM LS Engine Transplant Kit allows anyone to easily run a GM LS Gen III/IV engine and transmission outside of the original vehicle and factory controller. These FAST[™] kits are the perfect no-headache solution for transplanting late model engines into street rods, muscle cars or other projects, such as engine swaps. Engine management is covered, and with the addition of the plug-and-play TCI[®] EZ-TCU[™], electronic transmission control is no problem.



PART #	DESCRIPTION
30405-KIT	EZ-EFI 2.0 GM LS Engine Transplant Kit, Coil-Per-Cyl Ignition



LSX Nitrous Systems

The LSX Nitrous System is specifically fuel tuned for GM's LSX engines (LS1, -2, -3, -6, -7, L99, Gen III & Gen IV). These engines use higher fuel pressures (58 psi) and have noticeable power increases when custom jetted. In addition to optimized jet tuning, this kit also includes an extra long 18 ft. nitrous feed line from the bottle. This is nearly 2 feet longer than most universal kits, but it gives you the extra length needed for installing the nitrous bottle deep in an F-Body chassis trunk.

PART #	DESCRIPTION
82235	LSX Nitrous System – Purple
82235B	LSX Blackout Nitrous System



LSX High Output Nitrous System

Our LSX (LS1, -2, -3, -6, -7, L99, Gen III & Gen IV) High Output System is ideal for any GM LSX-powered vehicle looking for a serious power upgrade from the standard ZEX™ system. This kit features giant high-flow nitrous and fuel solenoids and -4AN nozzle feed lines. All of this high-flow hardware allows you to spray from 100-250 horsepower. Also included with this ZEX™ system is Fuel Shear™ Technology, which injects enrichment fuel directly in the nitrous plume for better atomization.

PART #	DESCRIPTION
82087	LSX High Output Nitrous System – Purple
82087P	LSX High Output Nitrous System – Polished

2010-2011 V8 Camaro Nitrous Systems

With the release of the 2010 Chevy Camaro, ZEX™ engineers have custom designed two nitrous systems specifically tailored to the Gen V Camaro engine, one for the V6 and another for the V8. The V6 kit offers a 55-100 horsepower upgrade, while the V8 version adds 75-175 additional horsepower. Each kit is designed to have an easy installation, and Active Fuel Control™ adjusts fuel delivery with changes in bottle pressure to operate at a safe air/fuel ratio.

PART #	DESCRIPTION
82380	2010-2011 Gen V Camaro Nitrous System – Purple
82380B	2010-2011 Gen V Camaro Nitrous System- Blackout

LSX™ Manifold Direct Port Nitrous System

The ZEX™ LSX™ Manifold Direct Port Nitrous System is the only custom made system for the FAST™ LSX™ Intake Manifold. Like all of our EFI Direct Port Systems, the kit includes custom distribution flex lines for easy installation. Designed to add from 75-300 horsepower, the kit uses a patented injector nozzle that delivers optimum nitrous and fuel atomization and activates at wide open throttle using our patented throttle position sensor technology.

PART #	DESCRIPTION
82032	LSX Manifold Direct Port Nitrous System



LS SERIES PERIMETER PLATE NITROUS SYSTEM

Typical spray bar nitrous plates are built on 30 year old technology and suffer from design compromises that can result in less than optimal performance and reliability. But ZEX™ has created three advanced nitrous technologies, each of which gives the user significant power advantages over conventional plate systems. And now, ZEX™ has a complete, race ready perimeter plate system for LS applications that is compatible with both cable and throttle-by-wire engines and is a direct fit for the new FAST™ LSXR™/LSXRT™ 102mm Intake Manifolds. Adjustable from 100-250 horsepower, the system provides optimum spray efficiency and fuel distribution with nitrous and fuel outlets placed at 12 injection points around the perimeter of the intake manifold's inlet.

PART #	DESCRIPTION
82195	LS Series Perimeter Plate Blackout Nitrous System (Throttle-By-Wire)
82391	LS Series Perimeter Plate Blackout Nitrous System (Non Throttle-By-Wire)
82039	LS Series Perimeter Plate Conversion Kit



LED Purge Kits

- Ensures instant nitrous power by clearing delivery lines of any unwanted vapor
- Includes complete nitrous purge kit and a ZEX™ Purge-Cloud LED Kit (Purge-Cloud LED Kit available for individual purchase)
- LED light is available in red, green or blue and is powerful enough to illuminate a 15ft. nitrous cloud

PART #	DESCRIPTION
82010R	LED Purge Kit – Red LED
82010G	LED Purge Kit – Green LED
82010B	LED Purge Kit – Blue LED
82170R	Purge-Cloud Light Kit – Red Light
82170G	Purge-Cloud Light Kit – Green Light
82170B	Purge-Cloud Light Kit – Blue Light

Machine Gun Purge Kits

- Pulses any purge kit on the market with a “machine gun” blast of noise
- Includes revolutionary Purge-Cloud LED light for strobe light effect
- Red, green and blue colors available
- ZEX™ laser-etched LED housing

PART #	DESCRIPTION
82370R	Machine Gun Purge Kit –Red LED
82370G	Machine Gun Purge Kit – Green LED
82370B	Machine Gun Purge Kit – Blue LED



**HIGH PERFORMANCE
GM LS EDITION**

Holley®

Holley Intake Manifolds LS

Holley LS Hi-Ram EFI Manifold

PART #	DESCRIPTION
300-122	LS1/LS2/LS6 Cathedral Port EFI w/ 92MM Throttle Body
300-123	LS1/LS2/LS6 Cathedral Port EFI w/ 105MM Throttle Body
300-116	GM LS3/L92 Rectangle Port w/ 92MM Throttle Body
300-117	GM LS3/L92 Rectangle Port w/ 105MM Throttle Body



PART #	DESCRIPTION
300-113	A: Carbureted LS Hi-Ram Intake, 2 x 4150 LS3/L92
300-113	B: Carbureted LS Hi-Ram Intake, 2 x 4500 LS3/L92

Holley Mid-Rise Carbureted LS Intakes

PART #	DESCRIPTION
300-137	LS1/2/6 2500-7000RPM 4150 Carb Flange Part #300-132 Available with Injector Bosses
300-136	LS3/L92 2500-7000RPM 4150 Carb Flange Part#300-131 Available with Injector Bosses



Edelbrock LS Intake Manifolds

PART #	DESCRIPTION
71393	Pro-Flo XT LS1 Series Satin
71403	Pro-Flo XT LS2 Series Satin



PART #	DESCRIPTION
2908	Victor Jr. LS1 Carbureted Intake Manifold with Timing Control Module (24tooth)
29087	Victor Jr. LS1/LS2 Carbureted Intake Manifold Only
29086	Victor Jr. LS1/LS2 Competition EFI Intake Manifold Only





Edelbrock LS Intake Manifolds (cont'd)

PART #	DESCRIPTION
28097	Super Victor LS1/LS2 Manifold (for use with carburetor)
28095	Super Victor LS1/LS2 EFI Manifold
91238	LS1 (24x) Timing Control Module (red)
3638	Victor Jr. LS1 EFI Fuel Rail Kit (standard injectors with stands)

PART #	DESCRIPTION
2821	Super Victor LS3 Carbureted Manifold for 4500 Series Carbs
28215	Super Victor LS3 EFI Manifold for 4500 Style Throttle Bodies
2826	Super Victor LS3 Carbureted Manifold for 4150 Series Carbs
28265	Super Victor LS3 EFI Manifold for 4150 Style Throttle Bodies
3655	Super Victor LS3 EFI Fuel Rail Kit (Standard injectors, -8 AN ends)

PART #	DESCRIPTION
28457	Victor Jr. LS Series Gen IV Carbureted Manifold for L92 Heads
28455	Victor Jr. LS Series Gen IV EFI Manifold for L92 Heads
3638	Victor Jr. LS1 EFI Fuel Rail Kit (standard injectors with stands)



PERFORMANCE Chevrolet Performance Intakes

PART #	DESCRIPTION
88958675	LS1/2/6, 4150 Style Flange, 2,800 – 7,000 RPM
25534394	LS7, 4150 Style Flange
25534401	LS3/L92, 4150 Style Flange, 3,000 – 7,500 RPM
19244037	LSX/3/L92/L76, 4150 Style Flange, Dual Plane, Thick Casting for Porting
19244035	LSX/S/L92/L76, 4150 Style Flange, Thick Casting for Porting
19244033	LSX/7, 4150 Style Flange, Thick Casting for Porting
19257851	LSX-DR, 1" Raised 4150 Style Flange, Thick Casting for Porting
19257854	LSX-CT, .50" Raised 4150 Style Flange, Thick Casting for Porting





HIGH PERFORMANCE GM LS EDITION

SPARK PLUG WIRES

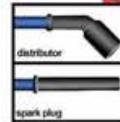
PART #	DESCRIPTION
C9LSRD	Davis Unified Ignition Spark Plug Wires, Set of 8, 8mm, Red
C9LSBL	Davis Unified Ignition Spark Plug Wires, Set of 8, 8mm, Black



PART #	DESCRIPTION
92045	Taylor Cable Spark Plug Wires, Set of 8, 9mm, Car, Black
92046	Taylor Cable Spark Plug Wires, Set of 8, 9mm, Truck, Black



PART #	DESCRIPTION
32829	MSD Spark Plug Wires, Set of 8, 8.5mm, Truck, Red
32819	MSD Spark Plug Wires, Set of 8, 8.5mm, Car, Red



IGNITION COILS



PART #	DESCRIPTION
65250	Davis Unified Ignition Coil Packs, Square, Set of 8, 40K V, Black
65350	Davis Unified Ignition Coil Packs, Triangular, Set of 8, 40K V, Black
65150	Davis Unified Ignition Coil Packs, Round, Set of 8, 40K V, Black

PART #	DESCRIPTION
718188	Taylor Cable Ignition Coil Pack, Rectangular, Set of 8, Black

PART #	DESCRIPTION
82858	MSD Ignition Coil Pack, Square, Set of 8, Red, LS1/6
82878	MSD Ignition Coil Pack, Square, Set of 8, Red, LS2/7
82868	MSD Ignition Coil Pack, Square, Set of 8, Red, LQ



PERFORMANCE

CHEVROLET PERFORMANCE CYLINDER HEADS

PART #	DESCRIPTION
12629063	LS3 Assembled Aluminum Cylinder Head, 68.4cc, 260cc Int. Runner, 2.165/1.590
12629051	LS3 Bare Aluminum Cylinder Head, 68.4cc, 260cc Int. Runner, 2.165/1.590
12629049	LS2/6 Bare Aluminum Cylinder Head, 64.5cc, 210cc Int. Runner, 2.000/1.550
12629051	LS3 Bare Aluminum Cylinder Head, 70cc, 260cc Int. Runner, 2.165/1.590
88958758	LS3 CNC Assembled Alum. Cyl Head, 68.5cc, 276cc Int. Runner, 2.165/1.590
19201805	LSX/3 Assembled Alum. Cyl Head, 70cc, 260cc Int. Runner, 2.160/1.590
19201806	LSX/7 Assembled Alum. Cyl Head, 70cc, 270cc Int. Runner, 2.200/1.610
19257879	LSX/7 Bare Aluminum Cylinder Head, 70cc, 270cc Int. Runner, 2.200/1.610
19166981	LSX/CT Bare Aluminum Cylinder Head, 45cc, 302cc Int. Runner, 2.200/1.610
19166979	LSX/DR Bare Alum. Cyl Head, 50cc, 313cc Int. Runner, 2.250-2.280/1.60-1.650



LSX-CT and LSX-DR Heads

The LSX-CT (Circle Track) and LSX-DR (Drag Racing) cylinder heads feature raised-runner designs for improved airflow that supports sustained high-rpm performance. Intake port configuration is similar to the competition derived C5R head, but the ports are raised an amazing 10mm and intake manifold bolt pattern is spread to accommodate additional port configurations.

Additional Features Include:

- 11-degree valve angle
- Accommodates up to 1.660" diameter springs
- Raised rocker rails
- Requires shaft-mount rockers
- May require special valve covers to clear shaft-mount rockers
- Provisions for down nozzle machining
- 9 Degree intake manifold angle-requires LSX-DR or LSX-XT Intake
- Unique LSX-CT/DR exhaust bolt pattern use flange P/N 19257453





**HIGH PERFORMANCE
GM LS EDITION**



BIG PORT LS7 PRO ELITE™ 307CC PART# 54504



Designed for BIG Horsepower, BIG Cubic Inch Hardcore Street or Race GM LS Engines

Big engines make big power, but often cylinder heads don't provide the necessary flow characteristics for large power plants. RHS® Pro Elite™ Big Port LS7 Cylinder Heads solve this problem. They are the only raised runner aftermarket LS7 heads with the runner volume to support large cubic inch applications, yet are still able to utilize both production and aftermarket intake manifolds and valve trains. Intake ports are raised .220" from the stock location for a straight line of sight to the cylinder. The heads feature a .750" thick deck surface and reinforced rocker rails, which make them perfect for high horsepower and boosted applications. They work well with all existing LS7 parts but have bigger intake ports and valves than the standard RHS® Pro Elite™ LS7 Cylinder Heads. They feature the popular 6-bolt design, making them compatible with the RHS® LS Race Block, GM LSX block and OEM GM LS blocks. These aluminum, CNC-ported heads feature a 307cc intake runner, 98cc exhaust runner and 69cc chamber volume. The intake valve is 2.250" x 5/16", while the exhaust valve is 1.615" x 8mm. RHS® Pro Elite™ Big Port LS7 Cylinder Heads are designed for larger cubic inch, all-out race engines but are also ideal for 454-502c.i. LS street engines.

- Includes (1) bare 355-T6 aluminum CNC cylinder head
- CNC-machined intake & exhaust runners as well as combustion chambers
- Intake ports raised .220" from stock location for strait line of sight into the cylinders
- .750" thick deck & reinforced rocker rails make heads ideal for high HP & boosted applications
- 6 head-bolt design works with RHS® LS Race Block & GM LSX Block as well as standard 4-bolt LS blocks
- 6 bolt heads offer superior clamping capacity over standard 4-bolt; Excellent for high boost applications
- Bigger intake ports & valves over standard Pro Elite™ LS7 Cylinder Heads
- Set-up for 2.250" intake & 1.615" exhaust valves
- Utilizes OEM or aftermarket LS7 valve train

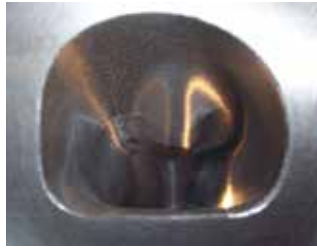
*Requires COMP Shaft Mount Rockers OR part #54520; OEM LS7 Rocker Adaptor (Requires [2])



PRO ELITE™ LS7 RECTANGLE PORT

CNC-PORTED Aluminum Cylinder Heads

- 12° Valve Angle
- Unique .220 Raised Intake Runners
- LS 6-Bolt Head Design



BARE						ASSEMBLED					
PART #	RUNNER	CHAMBER	SPARK PLUGS	VALVE SIZE		PART #	VALVE TRAIN	MAX LIFT	VALVE SPRINGS	RETAINERS PART #	RETAINERS MATERIAL ^A
				IN.	EX.						
P-PORT (w/o Valve Job)											
54500	-	-	Angle	-	-	-	-	-	-	-	-
CNC-PORTED											
54501	291cc	69cc	Angle	2.200	1.615	54501-05HCS ^B	Hyd. Roller	.660	26925	713	CS
						54501-06STS ^B	Hyd. Roller	.675	26926	1779	TS
						54501-06STI ^B	Hyd. Roller	.675	26926	779	TI
						54501-06TTSX ^C	Hyd. Roller	.675	26926	1779	TS
						54501-06TTIX ^C	Hyd. Roller	.675	26926	779	TI
						54501-06TTS ^D	Hyd. Roller	.675	26926	1779	TS
						54501-06TTI ^D	Hyd. Roller	.675	26926	779	TI
Sprint Car P-Port (w/o Valve Job)											
54509	-	-	Angle	-	-	-	-	-	-	-	-
Sprint Car CNC-Machined											
54510	291cc	69cc	Angle	2.200	1.615	-	-	-	-	-	-

^A 'CS' denotes Chromemoly Steel, 'TI' denotes Titanium & 'TS' denotes Tool Steel.

^B With Manley lightweight hollow stem stainless intake valves and severe duty solid stainless exhaust valves.

^C With Manley titanium intake valves and Inconel exhaust valves.

^D With Manley titanium intake valves and titanium exhaust valves.





HIGH PERFORMANCE GM LS EDITION



CHAMPIONSHIP ENGINE COMPONENTS

PR01 LS1 Aluminum Cylinder Heads

PR01 LS1		
Aluminum Alloy:	C355-T61	
Valve Angle:	15° (stock)	
Intake Port Volume	205 / 225cc	
Intake Valve:	2.020/2.050	
Exhaust Valve:	1.600	
Chamber Volume:	62cc	
LIFT	INTAKE	EXHAUST
205 FLOW @ 28 Water		
.200	156	109
.300	215	154
.400	258	187
.500	290	205
.600	298	214
225 FLOW @ 28 Water		
.200	144	109
.300	202	154
.400	254	187
.500	290	205
.600	313	214



PART #	CONFIGURATION FOR USE	VALVES	MAX LIFT
205 LS1 Heads			
11010010	Bare Head	2.020/1.600 VJ	-
11011112	1.290 Beehive Springs for Hydraulic Roller	2.020/1.600	.625
225 LS1 Heads			
11020020	Bare Head	2.050/1.600 VJ	-
11021122	1.290 Beehive Springs for Hydraulic Roller	2.050/1.600	.625

PR01 LS1 CNC Aluminum Cylinder Heads



PART #	CONFIGURATION FOR USE	VALVES	MAX LIFT
250 LS1 CNC Heads			
11071040	Bare Head	2.080/1.600 VJ	-
11071142	1.290 Beehive Springs for Hydraulic Roller	2.080/1.600 VJ	.625
11071143	1.295 Dual Springs for Hydraulic Roller	2.080/1.600 VJ	.650

PR01 LS1 CNC		
Aluminum Alloy:	C355-T61	
Valve Angle:	15° (stock)	
Intake Port Volume	250cc	
Intake Valve:	2.080	
Exhaust Valve:	1.600	
Chamber Volume:	68cc	
LIFT	INTAKE	EXHAUST
FLOW DATA @ 28 Water		
.200	144	114
.300	214	157
.400	264	192
.500	305	219
.600	344	240



FEL-PRO INTAKE GASKETS

Fel-Pro Performance Intake manifold Gaskets	
FEL-13121	Cath. .030 3.340 x 1.190 97-04 Gen III/IV LS1
FEL-13123	Cath. .060 3.34 x 1.190 97-04 Gen III/IV LS1
FEL-13124	Cath. .090 3.34 x 1.190 97-04 Gen III/IV LS1
FEL-12222	Rect. .045 thick 2.7 x 1.35 08-10 L92
FEL-12223	Rect. .060 thick 2.7 x 1.35 08-10 L92
FEL-12082	Stock Port .045 thick LS7



FEL-PRO Permatorque MLS Head Gaskets

FEL-1160L-041	LS1/LS6 .041 thickness LH 3.945 Bore
FEL-1160R-041	LS1/LS6 .041 thickness RH 3.945 Bore
FEL-1160L	LS1/LS6 .053 Thickness LH 3.945 Bore
FEL-1160R	LS1/LS6 .053 Thickness RH 3.945 Bore
FEL-26472L-041	GEN III LS .041 thickness LH 4.100 Bore
FEL-26472R-041	GEN III LS .041 thickness RH 4.100 Bore
FEL-26472L	GEN III LS .053 Thickness LH 4.100 Bore
FEL-26472R	GEN III LS .053 Thickness RH 4.100 Bore
FEL-26473L041	GEN III LS .041 Thickness LH 4.100 Bore
FEL-26473R041	GEN III LS .041 Thickness RH 4.100 Bore
FEL-1162L041	LS7 .041 thickness LH 4.175 Bore
FEL-1162R041	LS7 .041 thickness RH 4.175 Bore
FEL-1162R053	LS7 .053 thickness RH 4.175 Bore
FEL-1162L053	LS7 .053 thickness LH 4.175 Bore





LS Valve Covers

PERFORMANCE

Through innovative engineering, PROFORM has developed a valve cover that will take your generic looking stock LS engine, and give it a totally personalized look. These new valve covers are taller than stock valve covers, and can accommodate a wide variety of large valve train applications. These valve covers are available in 5 different styles, which include raised and recessed emblems. Unique mounting studs, and oil restricting baffles are included. Threaded mounting holes for Integrated Ignition Coil Bracket included. The passenger side valve cover has an oil filler hole. Sold in pairs.

Proform LS Valve Covers

PART #	DESCRIPTION
141-265	Chrome Aluminum BIK/Red Recessed Chevrolet
141-262	Black Crinkle Aluminum Raised Chevrolet Emblem
141-261	Chevy Orange Aluminum Raised Chevrolet Emblem
141-263	Cast Grey Crinkle Aluminum Raised Chevrolet Emblem
141-257	LSX Orange Aluminum Raised LSX Emblem



These mounting bolts are necessary to mount Chevrolet and Bowtie LS valve covers part numbers 141-261 thru 141-265 to LSX-DR cylinder heads.

PART #	DESCRIPTION
66330	Chrome Aluminum BIK/Red Recessed Chevrolet



Now Available! What to do with those pesky coils in such a confined space? In addition to new LS Slant-Edge valve covers, Specialty has designed an attractive way to lift your coils off your valve cover so you can see the Chevrolet emblem. A unique rail mounting system attaches to the threaded holes on the valve cover, and the individual coils attach to the rail so they can be mounted in multiple positions. All necessary hardware included. Note: Stock spark plug wires are not long enough to work with this coil bracket. MSD's 13" spark plug wires, part no. 39849 are recommended. 13-15" wires are needed if making your own wires.

PART #	DESCRIPTION
69520	Integrated Ignition Coil Bracket for LS1 1997-2004 Style Coils
69521	Integrated Ignition Coil Bracket for LS3/LS7 2008-12 Style Coils



The 18" and 46" cords have authentic Delphi connectors and are build and tested to withstand life in the engine compartment.

69525	18" Extension for GM LS Ignition Coil Harness
69526	46" Extension for GM LS Ignition Coil Harness





LS ENGINE VALVE SPRING KITS

NEW! LS Engine Beehive™ Valve Spring Kit

- Kits designed for hydraulic roller cams that include carefully matched Beehive™ Springs, retainers, locks, seals and spring seats
- Kits available with steel, lightweight Tool Steel or titanium retainers
- .600 maximum lift for kits including part #26915 valve springs
- .625 maximum lift for kits including part #26918 valve springs

PART #	COMPONENTS	DESCRIPTION
#26915		
26915CS-KIT Components Include:	26915-16	Beehive™ Valve Springs
	774-16	Steel Retainers
	623-16	7° Steel Valve Locks
	511-16	Valve Seals
	4705-16	Spring Seats
26915TS-KIT Components Include:	26915-16	Beehive™ Valve Springs
	1772-16	Lightweight Tool Steel Retainers
	623-16	7° Steel Valve Locks
	511-16	Valve Seals
	4705-16	Spring Seats
26915TI-KIT Components Include:	26915-16	Beehive™ Valve Springs
	772-16	Titanium Retainers
	623-16	7° Steel Valve Locks
	511-16	Valve Seals
	4705-16	Spring Seats
#26918		
26918CS-KIT Components Include:	26918-16	Beehive™ Valve Springs
	774-16	Steel Retainers
	623-16	7° Steel Valve Locks
	511-16	Valve Seals
	4705-16	Spring Seats
26918TS-KIT Components Include:	26918-16	Beehive™ Valve Springs
	1772-16	Lightweight Tool Steel Retainers
	623-16	7° Steel Valve Locks
	511-16	Valve Seals
	4705-16	Spring Seats

NEW! LS Engine Dual Valve Spring Kit

- Dual spring kits designed for hydraulic roller and some solid roller cams include matched valve springs, retainers, locks, seals and spring seats
- Kits available with lightweight Tool Steel or titanium retainers
- .650 maximum lift for kits including the part #26925 valve spring
- .675 maximum lift for kits including the part #26926 valve spring

PART #	COMPONENTS	DESCRIPTION
26918TI-KIT Components Include:	26918-16	Beehive™ Valve Springs
	772-16	Titanium Retainers
	623-16	7° Steel Valve Locks
	511-16	Valve Seals
	4705-16	Spring Seats
#26925		
26925TS-KIT Components Include:	26925-16	Street/Strip Dual Valve Springs
	1717-16	Lightweight Tool Steel Retainers
	623-16	7° Steel Valve Locks
	511-16	Valve Seals
	4695-16	Spring Seats
26925TI-KIT Components Include:	26925-16	Street/Strip Dual Valve Springs
	717-16	Titanium Retainers
	623-16	7° Steel Valve Locks
	511-16	Valve Seals
	4695-16	Spring Seats
#26926		
26926TS-KIT Components Include:	26926-16	Street/Strip Dual Valve Springs
	1779-16	Lightweight Tool Steel Retainers
	623-16	7° Steel Valve Locks
	511-16	Valve Seals
	4695-16	Spring Seats
26926TI-KIT Components Include:	26926-16	Street/Strip Dual Valve Springs
	779-16	Titanium Retainers
	623-16	7° Steel Valve Locks
	511-16	Valve Seals
	4695-16	Spring Seats



HIGH PERFORMANCE GM LS EDITION

ENGINETECH COMPONENTS

CAM BEARING SETS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
CC426	293	4.8	3.780	99-03	TRUCK, VAN, SUV	A,C,V GM 16V	(Early '03 with #1&5 housing ID of 2.327)
CC433	293	4.8	3.780	03-11	TRUCK, VAN, SUV	A,C,V GM 16V	(Late '03 with #1&5 housing ID of 2.347)
CC426	325	5.3	3.780	99-03	TRUCK, VAN, SUV	GM 16V	(Early '03 with #1&5 housing ID of 2.327)
CC433	325	5.3	3.780	03-11	TRUCK, VAN, SUV	GM 16V	(Late '03 with #1&5 housing ID of 2.347)
CC433	325	5.3	3.780	05-09	CAR	C GM 16V	
CC426	346	5.7	3.898	97-03	CAR	G,S Chev. 16V	(Early '03 with #1&5 housing ID of 2.327)
CC433	346	5.7	3.898	03-05	CAR	G,S Chev. 16V	(Late '03 with #1&5 housing ID of 2.347)
CC426	364	6.0	4.000	99-03	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	(Early '03 with #1&5 housing ID of 2.327)
CC433	364	6.0	4.000	03-10	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	(Late '03 with #1&5 housing ID of 2.347)
CC433	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	
CC433	376	6.2	4.065	07-11	TRUCK, VAN, SUV	2,8,F GM 16V	
CC433	379	6.2	4.065	08-10	CAR	J,P,R,W GM 16V	





ENGINETECH COMPONENTS

ROD AND MAIN BEARING SETS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
BB253J	293	4.8	3.780	99-11	TRUCK, VAN, SUV	A,C,V GM 16V	
BB253HP	293	4.8	3.780	99-11	TRUCK, VAN, SUV	A,C,V GM 16V	High Performance AlSi. Narrowed. No dowel hole.
BB353J	293	4.8	3.780	99-11	TRUCK, VAN, SUV	A,C,V GM 16V	With 0.002 oversized OD.
BC409J	293	4.8	3.780	99-11	TRUCK, VAN, SUV	A,C,V GM 16V	
BC409HP	293	4.8	3.780	99-11	TRUCK, VAN, SUV	A,C,V GM 16V	High Performance Tri-Metal. 1/2 groove.
BB253J	325	5.3	3.780	99-11	TRUCK, VAN, SUV	GM 16V	
BB253HP	325	5.3	3.780	99-11	TRUCK, VAN, SUV	GM 16V	High Performance AlSi. Narrowed. No dowel hole.
BB353J	325	5.3	3.780	99-11	TRUCK, VAN, SUV	GM 16V	With 0.002 oversized OD.
BC409J	325	5.3	3.780	99-11	TRUCK, VAN, SUV	GM 16V	
BC409HP	325	5.3	3.780	99-11	TRUCK, VAN, SUV	GM 16V	High Performance Tri-Metal. 1/2 groove.
BB253J	325	5.3	3.780	05-09	CAR	C GM 16V	
BB253HP	325	5.3	3.780	05-09	CAR	C GM 16V	High Performance AlSi. Narrowed. No dowel hole.
BB353J	325	5.3	3.780	05-09	CAR	C GM 16V	With 0.002 oversized OD.
BC409J	325	5.3	3.780	05-09	CAR	C GM 16V	
BC409HP	325	5.3	3.780	05-09	CAR	C GM 16V	High Performance Tri-Metal. 1/2 groove.
BB253J	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	
BB253HP	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	High Performance AlSi. Narrowed. No dowel hole.
BB353J	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	With 0.002 oversized O.D
BC409J	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	
BC409HP	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	High Performance Tri-Metal. 1/2 groove.
BB253J	364	6.0	4.000	99-11	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	
BB253HP	364	6.0	4.000	99-11	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	High Performance AlSi. Narrowed. No dowel hole.
BB353J	364	6.0	4.000	99-11	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	With 0.002 oversized O.D.
BC409J	364	6.0	4.000	99-11	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	
BC409HP	364	6.0	4.000	99-11	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	High Performance Tri-Metal. 1/2 groove.
BB253J	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	
BB253HP	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	High Performance AlSi. Narrowed. No dowel hole.
BB353J	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	With 0.002 oversized OD.



HIGH PERFORMANCE GM LS EDITION

ENGINETECH COMPONENTS

ROD AND MAIN BEARING SETS (CONT'D)

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
BC409J	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	
BC409HP	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	High Performance Tri-Metal..
BB253J	376	6.2	4.065	07-11	TRUCK, VAN, SUV	2,8,F GM 16V	
BB253HP	376	6.2	4.065	07-11	TRUCK, VAN, SUV	2,8,F GM 16V	High Performance AISi. Narrowed. No dowel hole.
BB353J	376	6.2	4.065	07-11	TRUCK, VAN, SUV	2,8,F GM 16V	With 0.002 oversized OD.
BC409J	376	6.2	4.065	07-11	TRUCK, VAN, SUV	2,8,F GM 16V	
BC409HP	376	6.2	4.065	07-11	TRUCK, VAN, SUV	2,8,F GM 16V	High Performance Tri-Metal. 1/2 groove.
BB253J	379	6.2	4.065	08-10	CAR	J,P,R,W GM 16V	
BB253HP	379	6.2	4.065	08-10	CAR	J,P,R,W GM 16V	High Performance AISi. Narrowed. No dowel hole.
BB353J	379	6.2	4.065	08-10	CAR	J,P,R,W GM 16V	With 0.002 oversized OD.
BC409J	379	6.2	4.065	08-10	CAR	J,P,R,W GM 16V	W.
BC409HP	379	6.2	4.065	08-10	CAR	J,P,R,W GM 16V	W. High Performance Tri-Metal. 1/2 groove.

OE STYLE CAMSHAFTS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
ES1567	293	4.8	3.780	00-06	TRUCK, VAN, SUV	A,C,V GM 16V	Use roller followers.
ES1567	325	5.3	3.780	00-04	TRUCK, VAN, SUV	GM 16V	Use roller followers.
ES1567	325	5.3	3.780	05-06	TRUCK, VAN, SUV	GM 16V	T, Z. Use roller followers.
ES1384	346	5.7	3.898	01-04	CAR	G,S Chev. 16V	G LS1. Hydraulic. Use roller followers.
ES1567	364	6.0	4.000	99-03	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	Except N. Use roller followers.
ES1384	364	6.0	4.000	02-06	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	N. Use roller followers.





ENGINETECH COMPONENTS

NEW CYLINDER HEAD CASTINGS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
EHC293	293	4.8	3.780	99-05	TRUCK, VAN, SUV	A,C,V GM 16V	New bare head. 71cc chamber. .3154 guide ID. Valve head diameter 1.890-1.920 / 1.550-1.580. Casting # 426. Check for proper physical match before installation.
EHC293	325	5.3	3.780	99-05	TRUCK, VAN, SUV	GM 16V	New bare head. 71cc chamber. .3154 guide ID. Valve head diameter 1.890-1.920 / 1.550-1.580. Casting # 426. Check for proper physical match before installation.

EXPANSION PLUG KITS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN
PK827	293	4.8	3.780	99-11	TRUCK, VAN, SUV	A,C,V GM 16V
PK827	325	5.3	3.780	99-11	TRUCK, VAN, SUV	GM 16V
PK820	346	5.7	3.898	97-01	CAR	G,S Chev. 16V



OE STYLE LOWER GASKET SETS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
C293CS-A	293	4.8	3.780	99-07	TRUCK, VAN, SUV	A,C,V GM 16V	W/rear main seal. Engines with flat mount cam plate bolts.
C325CS-A	293	4.8	3.780	99-09	TRUCK, VAN, SUV	A,C,V GM 16V	W/rear main seal. Engines with recessed cam plate bolts.
C293CS-A	325	5.3	3.780	99-07	TRUCK, VAN, SUV	GM 16V	W/rear main seal. Engines with flat mount cam plate bolts.
C325CS-A	325	5.3	3.780	99-09	TRUCK, VAN, SUV	GM 16V	W/rear main seal. Engines with recessed cam plate bolts.
C325CS-A	325	5.3	3.780	05-09	CAR	C GM 16V	W/rear main seal.
C293CS-A	346	5.7	3.898	97-04	CAR	G,S Chev. 16V	W/rear main seal. '00-04 Corvette lower oil pan gasket not included.
C325CS-A	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	W/rear main seal. Engines with recessed cam plate bolts.
C293CS-A	346	5.7	3.898	05-05	CAR	G,S Chev. 16V	W/rear main seal. Engines with flat mount cam plate bolts.
C293CS-A	364	6.0	4.000	99-07	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	Engines with flat mount cam plate bolts. W/rear main seal.
C325CS-A	364	6.0	4.000	99-07	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	Engines with recessed cam plate bolts. W/rear main seal.
C293CS-A	364	6.0	4.000	05-07	CAR	2,U,Y GM 16V	W/rear main seal. Engines with flat mount cam plate bolts.
C325CS-A	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	W/rear main seal. Engines with recessed cam plate bolts.
C325CS-A	364	6.0	4.000	08-09	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	W/rear main seal.
C325CS-A	376	6.2	4.065	07-09	TRUCK, VAN, SUV	2,8,F GM 16V	W/rear main seal.
C325CS-A	379	6.2	4.065	08-09	CAR	J,P,R,W GM 16V	W/rear main seal.
C325CS-A	379	6.2	4.065	09-09	CAR	P,R,T 16V S/C	W/rear main seal.



HIGH PERFORMANCE GM LS EDITION

ENGINETECH COMPONENTS

OE STYLE HEAD GASKET SETS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
C293HS-A	293	4.8	3.780	99-00	TRUCK, VAN, SUV	A,C,V GM 16V	With valve stem seals. Contains graphite head gasket.
C293HS-A	293	4.8	3.780	01-01	TRUCK, VAN, SUV	A,C,V GM 16V	With early metal clad valve seals & graphite head gasket. With 14.4mm valve guide O.D.
C293HS-D	293	4.8	3.780	01-09	TRUCK, VAN, SUV	A,C,V GM 16V	C. MLS Head Gaskets. With late tophat valve seals.
C293HS-A	325	5.3	3.780	99-00	TRUCK, VAN, SUV	GM 16V	With valve stem seals. Contains graphite head gasket.
C293HS-A	325	5.3	3.780	01-01	TRUCK, VAN, SUV	GM 16V	With early metal clad valve seals & graphite head gasket. With 14.4mm valve guide O.D.
C293HS-D	325	5.3	3.780	01-07	TRUCK, VAN, SUV	GM 16V	B. Gen III. MLS Head Gaskets. With late tophat valve seals.
C325HS-A	325	5.3	3.780	05-09	CAR	C GM 16V	MLS Head Gaskets. W/valve stem seals.
C325HS-A	325	5.3	3.780	05-09	TRUCK, VAN, SUV	GM 16V	0,3,J,M. Gen IV. MLS Head Gaskets. W/valve stem seals.
C346HS-A	346	5.7	3.898	97-98	CAR	G,S Chev. 16V	MLS Head Gaskets. Includes valve stem seals.
C346HS-B	346	5.7	3.898	99-00	CAR	G,S Chev. 16V	All. MLS head gasket. Includes valve stem seals.
C346HS-B	346	5.7	3.898	01-01	CAR	G,S Chev. 16V	G. Camaro & Firebird. MLS head gasket. Includes valve stem seals.
C346HS-C	346	5.7	3.898	02-02	CAR	G,S Chev. 16V	G. Camaro & Firebird. MLS head gasket. W/valve stem seals.
C346HS-D	346	5.7	3.898	02-04	CAR	G,S Chev. 16V	G,S. Corvette. MLS head gasket. W/valve stem seals.
C346HS-C	346	5.7	3.898	04-04	CAR	G,S Chev. 16V	G. GTO. MLS head gasket. W/valve stem seals.
C346HS-C	346	5.7	3.898	04-05	CAR	G,S Chev. 16V	S. CTS. MLS head gasket. W/valve stem seals.
C364HS-A	364	6.0	4.000	99-00	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	With early metal clad valve seals. Conventional head gaskets.
C364HS-B	364	6.0	4.000	01-01	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	With late tophat valve seals. MLS head gaskets.
C364HS-B	364	6.0	4.000	02-02	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	With valve stem seals. MLS head gaskets.
C364HS-B	364	6.0	4.000	03-07	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	N,U. With valve stem seals. MLS head gaskets.
C364HS-D	364	6.0	4.000	05-07	CAR	2,U,Y GM 16V	W/valve stem seals. MLS head gaskets.
C364HS-C	364	6.0	4.000	05-09	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	H. With valve stem seals. MLS head gaskets.
C376HS-A	364	6.0	4.000	07-09	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	K,Y. With valve stem seals. MLS head gaskets. Lifter valley gasket not included.
C364HS-E	364	6.0	4.000	08-09	CAR	2,U,Y GM 16V	W/valve stem seals. MLS head gaskets.
C376HS-A	376	6.2	4.065	07-08	TRUCK, VAN, SUV	2,8,F GM 16V	MLS Head Gasket. W/valve stem seals. Lifter valley gasket not included.
C379HS-A	379	6.2	4.065	08-10	CAR	J,P,R,W GM 16V	W. W/valve stem seals. MLS head gasket.

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ENGINETECH COMPONENTS

HEAD BOLT SETS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
HB171	293	4.8	3.780	99-04	TRUCK, VAN, SUV	A,C,V GM 16V	1st design set contains bolts of 3 different lengths. Two sets required.
HB230	293	4.8	3.780	04-09	TRUCK, VAN, SUV	A,C,V GM 16V	2nd design set contains bolts of 2 different lengths. Two sets required.
HB171	325	5.3	3.780	99-04	TRUCK, VAN, SUV	GM 16V	1st design set contains bolts of 3 different lengths. Two sets required.
HB230	325	5.3	3.780	04-09	TRUCK, VAN, SUV	GM 16V	2nd design set contains bolts of 2 different lengths. Two sets required.
HB230	325	5.3	3.780	05-09	CAR	C GM 16V	Two sets required.
HB171	346	5.7	3.898	97-04	CAR	G,S Chev. 16V	1st design set contains bolts of 3 different lengths. Two sets required.
HB230	346	5.7	3.898	04-05	CAR	G,S Chev. 16V	2nd design set contains bolts of 2 different lengths. Two sets required.
HB171	364	6.0	4.000	99-04	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	1st design set contains bolts of 3 different lengths. Two sets required.
HB230	364	6.0	4.000	04-09	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	2nd design set contains bolts of 2 different lengths. Two sets required.
HB230	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	Two sets required.
HB259	376	6.2	4.065	07-09	TRUCK, VAN, SUV	2,8,F GM 16V	Two sets required.

VALVE LIFTERS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
L2148	293	4.8	3.780	99-11	TRUCK, VAN, SUV	A,C,V GM 16V	Hydraulic. Roller follower. (128 / tray).
L2148	325	5.3	3.780	99-11	TRUCK, VAN, SUV	GM 16V	Except cylinders with AFM (Active Fuel Management). Hydraulic. Roller follower. (128 / tray)
L2148	325	5.3	3.780	05-09	CAR	C GM 16V	Except cylinders with AFM (Active Fuel Management). Hydraulic. Roller follower. (128 / tray)
L2303	325	5.3	3.780	05-09	CAR	C GM 16V	For cylinders with AFM (Active Fuel Management). Hydraulic. Roller follower. (128 / tray)
L2303	325	5.3	3.780	05-11	TRUCK, VAN, SUV	GM 16V	J, M, 0, 3. For cylinders with AFM (Active Fuel Management). Hydraulic. Roller follower. (128 / tray).
L2148	364	6.0	4.000	99-11	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	Except cylinders with AFM (Active Fuel Management). Hydraulic. Roller follower. (128 / tray).
L2148	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	Hydraulic. Roller follower. (128 / tray).
L2303	364	6.0	4.000	07-11	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	Y, 5. For cylinders with AFM (Active Fuel Management). Hydraulic. Roller follower. (128 / tray).
L2148	376	6.2	4.065	07-11	TRUCK, VAN, SUV	2,8,F GM 16V	2,8. Except cylinders with AFM (Active Fuel Management). Hydraulic. Roller follower. (128 / tray).
L2303	376	6.2	4.065	07-11	TRUCK, VAN, SUV	2,8,F GM 16V	8. For cylinders with AFM (Active Fuel Management). Hydraulic. Roller follower. (76 tray).



HIGH PERFORMANCE GM LS EDITION

ENGINETECH COMPONENTS

OIL PUMPS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
EP295	293	4.8	3.780	99-11	TRUCK, VAN, SUV	A,C,V GM 16V	
EP295	325	5.3	3.780	99-04	TRUCK, VAN, SUV	GM 16V	The OE pump has no cast hole in-between the mounting bolt holes.
EP295	325	5.3	3.780	05-06	TRUCK, VAN, SUV	GM 16V	Except Envoy or Trailblazer. The OE pump has no cast hole in-between the mounting bolt holes.
EP365	325	5.3	3.780	05-09	TRUCK, VAN, SUV	GM 16V	Envoy & Trailblazer. The OE pump has a cast hole in-between the mounting bolt holes.
EP295	325	5.3	3.780	07-08	TRUCK, VAN, SUV	GM 16V	Except Avalanche 3, Suburban LY5 or Yukon XL. The OE pump has no cast hole in-between the mounting bolt holes.
EP365	325	5.3	3.780	07-08	TRUCK, VAN, SUV	GM 16V	Avalanche 3, Suburban LY5 & Yukon XL. The OE pump has a cast hole in-between the mounting bolt holes.
EP365	325	5.3	3.780	07-09	CAR	C GM 16V	Lacrosse, Impala, Monte Carlo. The OE pump has a cast hole in-between the mounting bolt holes. Enginetech Pressure King pump.
EP365	325	5.3	3.780	08-08	CAR	C GM 16V	Lacrosse, Impala, Monte Carlo. The OE pump has a cast hole in-between the mounting bolt holes. Enginetech Pressure King pump.
EP295	325	5.3	3.780	09-09	TRUCK, VAN, SUV	GM 16V	Except Avalanche 3, Express 1500, Savana, Suburban LY5 or Yukon XL. The OE pump has no cast hole in-between the mounting bolt holes.
EP365	325	5.3	3.780	09-09	TRUCK, VAN, SUV	GM 16V	Avalanche 3, Express 1500, Savana, Suburban LY5 & Yukon XL. The OE pump has a cast hole in-between the mounting bolt holes.
EP295	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	
EP295	364	6.0	4.000	99-09	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	U,N,H,K. The OE pump has no cast hole in-between the mounting bolt holes.
EP295	364	6.0	4.000	05-07	CAR	2,U,Y GM 16V	U.
EP365	364	6.0	4.000	07-09	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	Y. The OE pump has a cast hole in-between the mounting bolt holes.
EP365	364	6.0	4.000	08-09	CAR	2,U,Y GM 16V	Y.
EP365	376	6.2	4.065	07-10	TRUCK, VAN, SUV	2,8,F GM 16V	2, 8.
EP295	379	6.2	4.065	08-09	CAR	J,P,R,W GM 16V	W,R. The OE pump has no cast hole in-between the mounting bolt holes.
EP365	379	6.2	4.065	10-10	CAR	J,P,R,W GM 16V	J. The OE pump has a cast hole in-between the mounting bolt holes.

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ENGINETECH COMPONENTS

OE STYLE PISTON RING SETS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
C96008	293	4.8	3.780	99-10	TRUCK, VAN, SUV	A,C,V GM 16V	Premium. Steel top. 1.5 / 1.5 / 3.0mm.
C96008	325	5.3	3.780	99-10	TRUCK, VAN, SUV	GM 16V	Premium. Steel top. 1.5 / 1.5 / 3.0mm.
C96008	325	5.3	3.780	05-09	CAR	C GM 16V	Premium. Steel top. 1.5 / 1.5 / 3.0mm.
M38918	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	Premium. Steel top. Moly. 1.5 / 1.5 / 3.0mm. When depleted use S38918.
S38918	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	Premium. Steel top. 1.5 / 1.5 / 3.0mm.
C10218	364	6.0	4.000	99-06	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	Premium. Steel top. 1.5 / 1.5 / 3.0mm. Includes HO.
S10248	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	Premium. Steel top. 1.2 / 1.5 / 2.5mm.
S10248	364	6.0	4.000	05-10	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	Premium. Steel top. 1.2 / 1.5 / 2.5mm. Includes HO.
M40718	376	6.2	4.065	07-10	TRUCK, VAN, SUV	2,8,F GM 16V	2,8. Premium. 1.5 / 1.5 / 2.5mm.
M40718	379	6.2	4.065	08-11	CAR	J,P,R,W GM 16V	J,W. Premium. 1.5 / 1.5 / 2.5mm.

OE STYLE PISTON SETS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
P3078(8)	293	4.8	3.780	99-04	TRUCK, VAN, SUV	A,C,V GM 16V	Flat top. 1.328 CH. Hyper. Coated skirt. Press fit pin. Use C96008 rings.
P5036(8)	293	4.8	3.780	05-09	TRUCK, VAN, SUV	A,C,V GM 16V	Flat top. 1.323 CH. Hyper. Coated skirt. Floating pin. Use C96008 rings.
P3079(8)	325	5.3	3.780	99-04	TRUCK, VAN, SUV	GM 16V	Dish top. 1.327 CH. Hyper. Coated skirt. Press fit pin. Use C96008 rings.
P5037(8)	325	5.3	3.780	05-07	TRUCK, VAN, SUV	GM 16V	T,Z. Dish top. 1.323 CH. Hyper. Coated skirt. Floating pin. Use C96008 rings.
P5036(8)	325	5.3	3.780	05-09	CAR	C GM 16V	Flat top. 1.323 CH. Hyper. Coated skirt. Floating pin. Use C96008 rings.
P5036(8)	325	5.3	3.780	05-09	TRUCK, VAN, SUV	GM 16V	0,3,4,B,J,L,M,T,Z. Flat top. 1.323 CH. Hyper. Coated skirt. Floating pin. Use C96008 rings.
P3081(8)	346	5.7	3.898	97-03	CAR	G,S Chev. 16V	Flat top. 1.311 CH. Hyper. Coated skirt. Press fit pin. Use S38918 rings.
P3081(8)	346	5.7	3.898	04-04	CAR	G,S Chev. 16V	Except CTS. Flat top. 1.311 CH. Hyper. Coated skirt. Press fit pin. Use S38918 rings.
P5081(8)	346	5.7	3.898	04-05	CAR	G,S Chev. 16V	S CTS V. Flat top. 1.330 CH. Hyper. Coated skirt. Floating pin. Use S38918 rings.
P3080(8)	364	6.0	4.000	99-03	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	U. Dish top 0.050 deep. 1.328 CH. Hyper. Coated skirt. Press fit pin. Use C10218 rings.
P5041(8)	364	6.0	4.000	03-07	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	N. Flat top. 1.326 CH. Hyper. Coated skirt. Floating pin. Use C10218 rings.
P5038(8)	364	6.0	4.000	04-05	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	U. Dish top 0.058 deep. 1.328 CH. Hyper. Coated skirt. Floating pin. Use C10218 rings.
P5041(8)	364	6.0	4.000	06-07	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	U. Flat top. 1.326 CH. Hyper. Coated skirt. Floating pin. Use C10218 rings.
P5070(8)	364	6.0	4.000	07-10	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	5,K,Y. Dish top 0.047 deep. 2 valve reliefs. 1.328 CH. Hyper. Coated skirt. Floating pin. Use C10218 rings. When depleted use P5073(8).
P5073(8)	364	6.0	4.000	07-10	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	5,K,Y. Dish top 0.053 deep. 2 valve reliefs. 1.327 CH. Hyper. Coated skirt. Floating pin. Use S10248 rings.
P5076(8)	376	6.2	4.065	07-10	TRUCK, VAN, SUV	2,8,F GM 16V	2,8. Anodized Head. Use M40718 rings.



HIGH PERFORMANCE GM LS EDITION

ENGINETECH COMPONENTS

PUSHRODS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
EPR614	293	4.8	3.780	99-11	TRUCK, VAN, SUV	A,C,V GM 16V	Int. & Exh. 7.397 O.A.L. (4 pack)
EPR614	325	5.3	3.780	99-11	TRUCK, VAN, SUV	GM 16V	Int. & Exh. 7.397 O.A.L. (4 pack).
EPR614	325	5.3	3.780	05-09	CAR	C GM 16V	Int. & Exh. 7.397 O.A.L. (4 pack).
EPR614	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	Int. & Exh. 7.397 O.A.L. (4 pack).
EPR614	364	6.0	4.000	99-11	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	Int. & Exh. 7.397 O.A.L. (4 pack).
EPR614	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	Int. & Exh. 7.397 O.A.L. (4 pack).
EPR614	376	6.2	4.065	07-11	TRUCK, VAN, SUV	2,8,F GM 16V	Int. & Exh. 7.397 O.A.L. (4 pack).

REAR MAIN SEALS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
S5671	293	4.8	3.780	99-09	TRUCK, VAN, SUV	A,C,V GM 16V	1pc. PTFE.
S5671	325	5.3	3.780	99-09	TRUCK, VAN, SUV	GM 16V	1pc. PTFE.
S5671	325	5.3	3.780	05-09	CAR	C GM 16V	1pc. PTFE.
S5671	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	1pc. PTFE.
S5671	364	6.0	4.000	99-09	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	1pc. PTFE.
S5671	364	6.0	4.000	05-09	CAR	2,U,Y GM 16V	1pc. PTFE.

OE STYLE EXHAUST VALVES

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
V4371	293	4.8	3.780	99-11	TRUCK, VAN, SUV	A,C,V GM 16V	.3127 stem. 1.551 head. 23-8N stainless. Ex. LPG.
V4371	325	5.3	3.780	99-11	TRUCK, VAN, SUV	GM 16V	.3127 stem. 1.551 head. 23-8N stainless. Includes flex fuel.
V4371	325	5.3	3.780	05-09	CAR	C GM 16V	.3127 stem. 1.551 head.
V4371	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	.3127 stem. 1.551 head. 23-8N stainless.
V4371	364	6.0	4.000	99-11	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	.3127 stem. 1.551 head. 23-8N stainless. Incl. Bi-Fuel & CNG.
V4371	364	6.0	4.000	05-07	CAR	2,U,Y GM 16V	U. .3127 stem. 1.551 head.



ENGINETECH COMPONENTS

OE STYLE INTAKE VALVES

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
V3452	293	4.8	3.780	99-06	TRUCK, VAN, SUV	A,C,V GM 16V	.3134 stem. 1.890 head. Ex. LPG.
V4366	293	4.8	3.780	07-08	TRUCK, VAN, SUV	A,C,V GM 16V	C. .3136 stem. 2.000 head.
V3452	325	5.3	3.780	99-07	TRUCK, VAN, SUV	GM 16V	.3134 stem. 1.890 head. Includes flex fuel.
V4366	325	5.3	3.780	05-08	TRUCK, VAN, SUV	GM 16V	.3136 stem. 2.000 head. Includes flex fuel.
V4366	325	5.3	3.780	05-09	CAR	C GM 16V	.3136 stem. 2.000 head.
V4366	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	.3136 stem. 2.000 head.
V4366	364	6.0	4.000	99-11	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	.3136 stem. 2.000 head. Ex. Bi-Fuel & CNG.
V4366	364	6.0	4.000	05-07	CAR	2,U,Y GM 16V	U. .3136 stem. 2.000 head.

TIMING SETS

PART #	CID	LITER	BORE	YEARS	VEHICLE TYPE	ENGINE VIN	APPLICATION NOTES
TS4194A	293	4.8	3.780	99-06	TRUCK, VAN, SUV	A,C,V GM 16V	3 Pc. set. Fits engines with or without cam position sensor. Cam sprocket has (3) bolt holes and (1) half circle hump on sprocket face. Also replaces TS4194.
TS4194B	293	4.8	3.780	07-09	TRUCK, VAN, SUV	A,C,V GM 16V	3 Pc. set. Cam sprocket has (1) bolt hole and (4) humps on sprocket face.
TS4194A	325	5.3	3.780	99-06	TRUCK, VAN, SUV	GM 16V	3 Pc. set. Fits engines with or without cam position sensor. Cam sprocket has (3) bolt holes and (1) half circle hump on sprocket face. Also replaces TS4194.
TS4194A	325	5.3	3.780	05-07	CAR	C GM 16V	3 Pc. set. Cam sprocket has 3 bolt holes and one half circle hump on sprocket face.
TS4194B	325	5.3	3.780	07-09	TRUCK, VAN, SUV	GM 16V	3 Pc. set. Cam sprocket has (1) bolt hole and (4) humps on sprocket face.
TS4194B	325	5.3	3.780	08-09	CAR	C GM 16V	3 Pc. set. Cam sprocket has (1) bolt hole and (4) humps on sprocket face.
TS4194A	346	5.7	3.898	97-05	CAR	G,S Chev. 16V	3 Pc. Set.
TS4194A	364	6.0	4.000	01-07	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	3 Pc. set. Fits engines with or without cam position sensor. Cam sprocket has 3 bolt holes and one half circle hump on sprocket face. Also replaces TS4194.
TS4194A	364	6.0	4.000	05-05	CAR	2,U,Y GM 16V	3 Pc. set. Corvette. Cam sprocket has 3 bolt holes and one half circle hump on sprocket face.
TS4194A	364	6.0	4.000	05-06	CAR	2,U,Y GM 16V	3 Pc. set. GTO. Cam sprocket has 3 bolt holes and one half circle hump on sprocket face.
TS4194B	364	6.0	4.000	07-07	CAR	2,U,Y GM 16V	3 Pc. set. Corvette. Cam sprocket has (1) bolt hole and (4) humps on sprocket face.
TS4194B	364	6.0	4.000	07-10	TRUCK, VAN, SUV	5,G,H,J,K,N,U,Y GM 16V	3 Pc. set. Fits engines without VVT. Cam sprocket has (1) bolt hole and (4) humps on sprocket face.
TS4194B	364	6.0	4.000	08-09	CAR	2,U,Y GM 16V	3 Pc. set. G8. Cam sprocket has (1) bolt hole and (4) humps on sprocket face.

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HIGH PERFORMANCE GM LS EDITION



GM LS GEN III/IV THREE-BOLT 8 CYL. 1997-PRESENT

XFI™ RPM HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION @ .050%				VALVE LIFT W/ 1.7 ROCKER		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
HYDRAULIC ROLLER – Very strong torque, good mileage. Noticeable increase over stock cam.	Hyd.	Hyd.	800 to 5800	54-408-11	XR259HR	259	265	206	212	.515	.522	112°
HYDRAULIC ROLLER – Good torque & very strong mid-range power. Good performance cam.	Hyd.	Hyd.	1200 to 6000	54-412-11	XR265HR	265	271	212	218	.522	.529	114°
HYDRAULIC ROLLER – Great mid-range with superior top end power. Needs programmer.	Hyd.	Hyd.	1300 to 6300	54-414-11	XR269HR	269	273	216	220	.525	.532	114°
HYDRAULIC ROLLER – Street/strip camshaft for high rpm power. Likes higher rocker ratios. Must have programmer.	Hyd.	Hyd.	1600 to 6600	54-416-11	XR273HR	273	277	220	224	.530	.534	112°
HYDRAULIC ROLLER – Street/strip camshaft designed for use with FAST™ LSX™ intake. Requires programmer.	Hyd.	Hyd.	2000 to 6800	54-418-11	XR277HR	277	281	224	228	.534	.537	112°

XFI™ RPM HI-LIFT HYDRAULIC ROLLER CAMSHAFTS

HYDRAULIC ROLLER – Great street cam with very wide power range, good drivability and excellent response.	Hyd.	Hyd.	1400 to 6700	54-424-11	XR265HR	265	271	212	218	.558	.563	115°
HYDRAULIC ROLLER – Great street/strip camshaft for mid-range and high rpm power. Must have programmer.	Hyd.	Hyd.	1800 to 6800	54-426-11	XR275HR	275	277	222	224	.566	.568	112°
HYDRAULIC ROLLER – High rpm street/strip camshaft for use with FAST™ LSX™ intake. Requires programmer.	Hyd.	Hyd.	2200 to 7200	54-428-11	XR281HR	281	283	228	230	.571	.573	112°

XFI™ XE-R HYDRAULIC ROLLER CAMSHAFTS

HYDRAULIC ROLLER – High rpm street/strip with XE-R lobe designs. Requires custom tuning.	Hyd.	Hyd.	2000 to 7000	54-444-11	XE-R273HR	273	279	224	230	.581	.588	114°
HYDRAULIC ROLLER – Xtreme Energy XE-R design for standard displacement LS6 and LS1. Race only applications.	Hyd.	Hyd.	2400 to 7200	54-446-11	XE-R281HR	281	283	232	234	.595	.598	112°
HYDRAULIC ROLLER – Xtreme Energy XE-R design for large cubic inch LS6 and LS1. Race only applications.	Hyd.	Hyd.	2800 to 7200	54-448-11	XE-R287HR	287	289	238	240	.605	.609	112°

LIGHTWEIGHT TOOL STEEL RETAINERS

The COMP Cams® Lightweight Tool Steel Retainers offer weight savings that rival titanium but with the durability of steel.

- 33% lighter than traditional steel retainers and only 2-4 grams heavier than titanium
- High-grade Tool Steel with enhanced surface finish; provisions for 10° locks
- Available in a variety of sizes and configurations to fit most popular springs



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HIGH PERFORMANCE GM LS EDITION



GM LS GEN III/IV THREE-BOLT 8 CYL. 1997-PRESENT

HYDRAULIC ROLLER CAMSHAFTS XFI™ RPM									
LIFTERS	TIMING SET	ROCKER ARMS & KITS	RPM KITS	PUSHRODS	BEEHIVE™ VALVE SPRING KITS			DUAL VALVE SPRING KITS	
					STEEL	TOTAL STEEL	TITANIUM	TOTAL STEEL	TITANIUM
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54050 54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54050 54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54050 54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54050 54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54050 54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
HYDRAULIC ROLLER CAMSHAFTS XFI™ RPM HI-LIFT									
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
HYDRAULIC ROLLER CAMSHAFTS XFI™ XE-R									
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT

11 Lifters only, does not include lifter retainers or guides
 82 This kit includes hydraulic roller lifters
 100 Kit includes 1.8 ratio rocker arms, for 1.7 ratio us Part #1500

RED NUMBERS ARE THE PREMIUM CHOICE

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HIGH PERFORMANCE GM LS EDITION



GM LS GEN III/IV THREE-BOLT 8 CYL. 1997-PRESENT

XFI™ XTREME TRUCK HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART #	CAM GRIND#	DURATION @ .050%				VALVE LIFT W/ 1.7 ROCKER		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
HYDRAULIC ROLLER – 4.8L/5.3L Chevrolet/GMC truck. Significant gains in mid and upper rpm range. Works best with programmer.	Hyd.	Hyd.	800 to 5000	54-450-11 ⁷	G3 XFI 260HR15	260	266	206	212	.515	.522	115°
HYDRAULIC ROLLER – 6.0L Chevrolet/GMC truck. Significant gains in mid and upper rpm range. Works best with programmer.	Hyd.	Hyd.	800 to 5200	54-452-11 ⁷	G3 XFI 266HR15	266	270	212	216	.520	.524	115°
HYDRAULIC ROLLER – 5.3L/6.0L Chevrolet/GMC truck. Significant gains in mid and upper rpm range. Exhaust upgrade needed for best performance. Needs programmer.	Hyd.	Hyd.	1000 to 5700	54-451-11 ⁷	G3 XFI 261HR15	261	265	208	212	.554	.558	115°

TRI-POWER XTREME™ HYDRAULIC ROLLER CAMSHAFTS

HYDRAULIC ROLLER – Optimized fuel mileage with good torque and horsepower. Needs programmer.	Hyd.	Hyd.	800 to 5800	54-525-11 ⁷	TPX 246HR-17	246	258	194	206	.500	.493	117°
HYDRAULIC ROLLER – Exceptional torque with good hp and moderate fuel economy. Needs programmer.	Hyd.	Hyd.	1000 to 6000	54-530-11 ⁷	TPX 254HR-16	254	264	202	212	.507	.500	116°
HYDRAULIC ROLLER – Optimized hp with good torque and average fuel economy. Programmer required.	Hyd.	Hyd.	1200 to 6200	54-535-11 ⁷	TPX 262HR-15	262	270	210	218	.513	.507	115°

NEW – THUMPR™ HYDRAULIC ROLLER CAMSHAFTS

HYDRAULIC ROLLER – ThumpR™ – High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	2000 to 6400	54-600-11 ⁷	275THR9	275	295	219	233	.553	.536	109°
HYDRAULIC ROLLER – Mutha' ThumpR™ – High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2300 to 6600	54-601-11 ⁷	283THR9	283	303	227	241	.563	.546	109°
HYDRAULIC ROLLER – Big Mutha' ThumpR™ – Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2600 to 6800	54-602-11 ⁷	291THR9	291	311	235	249	.573	.558	109°



THUMPR™ CAMS

The wildly popular ThumpR™ Cams feature specially engineered profiles to provide the perfect combination of an early intake valve opening, long exhaust duration and a generous amount of intake and exhaust overlap to maximize your engine's nasty idling characteristics without negatively impacting streetability.



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HIGH PERFORMANCE GM LS EDITION



GM LS GEN III/IV THREE-BOLT 8 CYL. 1997-PRESENT

HYDRAULIC ROLLER CAMSHAFTS XFIT™ XTREME TRUCK									
LIFTERS	TIMING SET	ROCKER ARMS & KITS	RPM KITS	PUSHRODS	BEEHIVE™ VALVE SPRING KITS			DUAL VALVE SPRING KITS	
					STEEL	TOTAL STEEL	TITANIUM	TOTAL STEEL	TITANIUM
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54050 54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54050 54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
HYDRAULIC ROLLER CAMSHAFTS TRI-POWER XTREME™									
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54050 54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54050 54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54050 54100 54200 ⁸²	7955-16	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
HYDRAULIC ROLLER CAMSHAFTS THUMPR™									
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT

7 Stock springs cannot be used

11 Lifters only, does not include lifter retainers or guides

82 This kit includes hydraulic roller lifters

100 Kit includes 1.8 ratio rocker arms, for 1.7 ratio us Part #1500

RED NUMBERS ARE THE PREMIUM CHOICE

Except as noted, not legal for sale or use on pollution-controlled motor vehicles



HIGH PERFORMANCE GM LS EDITION



GM LS GEN III/IV THREE-BOLT 8 CYL. 1997-PRESENT

LS_R™ CATHEDRAL PORT HYDRAULIC ROLLER CAMSHAFTS (SMALL DISPLACEMENT OR MAX TORQUE, 4.8L-5.3L)

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART #	CAM GRIND #	DURATION @ .050%				VALVE LIFT W/ 1.7 ROCKER		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
HYDRAULIC ROLLER – Very strong torque and excellent response. Works best in heavy vehicles, low rpm applications.	Hyd.	Hyd.	1300 to 6500	54-455-11 ⁷	265Lr HR12	265	273	215	233	.604	.610	112°
HYDRAULIC ROLLER – Excellent torque with a very broad power band. Great for street performance and drivability.	Hyd.	Hyd.	1500 to 6700	54-456-11 ⁷	269Lr HR12	269	277	219	227	.607	.614	112°
HYDRAULIC ROLLER – Steady power throughout broad range. Needs aftermarket airflow improvements on inlet and exhaust.	Hyd.	Hyd.	1700 to 6800	54-457-11 ⁷	273Lr HR12	273	281	223	231	.610	.617	112°
HYDRAULIC ROLLER – Good street/strip camshaft with wide range. Must have substantial airflow upgrades, inlet and exhaust.	Hyd.	Hyd.	1900 to 7000	54-458-11 ⁷	277Lr HR13	277	285	227	235	.614	.621	113°

NEW – LS_R™ CATHEDRAL PORT HYDRAULIC ROLLER CAMSHAFTS (ALL OUT POWER FOR 5.7L-6.2L)

HYDRAULIC ROLLER – Very wide power range and excellent mid-range torque for LS engines with cathedral port cylinder heads.	Hyd.	Hyd.	2000 to 7000	54-459-11 ⁷	281LR HR13	281	289	231	239	.617	.624	113°
HYDRAULIC ROLLER – Very strong from mid-range to high end torque and horsepower for LS engines with cathedral port cylinder heads.	Hyd.	Hyd.	2200 to 7200	54-460-11 ⁷	285LR HR13	285	293	235	243	.621	.624	113°
HYDRAULIC ROLLER – Broad top end power range for high rpm, race only LS engines with aftermarket cathedral port cylinder heads and higher compression.	Hyd.	Hyd.	2400 to 7200	54-461-11 ⁷	289LR HR14	289	297	239	247	.624	.624	114°
HYDRAULIC ROLLER – Excellent top end and high rpm power for race style LS engines with aftermarket cathedral port cylinder heads.	Hyd.	Hyd.	2600 to 7200	54-462-11 ⁷	293LR HR14	293	301	243	251	.624	.624	114°

NEW – LS_R™ CATHEDRAL PORT HYDRAULIC ROLLER CAMSHAFTS (FOR LARGE DISPLACEMENT ONLY, 6.2L-7.4L)

HYDRAULIC ROLLER – 400+c.i., high rpm applications with major modifications and cathedral port cylinder heads.	Hyd.	Hyd.	2400 to 7000	54-463-11 ⁷	297LRx HR14	297	305	247	255	.624	.624	114°
HYDRAULIC ROLLER – 420+c.i., high compression, high rpm, cathedral CNC-ported heads in race type applications	Hyd.	Hyd.	2600 to 7000	54-464-11 ⁷	301LRx HR15	301	309	251	259	.624	.624	115°
HYDRAULIC ROLLER – 440+c.i., purpose built applications focusing on power above 6000 rpm with cathedral port heads.	Hyd.	Hyd.	2800 to 7200	54-465-11 ⁷	305LRx HR15	305	313	255	263	.624	.624	115°
HYDRAULIC ROLLER – All out power for extreme displacement race application engines with cathedral port cylinder heads.	Hyd.	Hyd.	3000 to 7200	54-466-11 ⁷	309LRx HR15	309	317	259	267	.624	.624	115°

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HIGH PERFORMANCE GM LS EDITION



GM LS GEN III/IV THREE-BOLT 8 CYL. 1997-PRESENT

HYDRAULIC ROLLER CAMSHAFTS (SMALL DISPLACEMENT OR MAX TORQUE, 4.8L-5.3L) LS _R ™ CATHEDRAL PORT									
LIFTERS	TIMING SET	ROCKER ARMS & KITS	RPM KITS	PUSHRODS	BEEHIVE™ VALVE SPRING KITS			DUAL VALVE SPRING KITS	
					STEEL	TOTAL STEEL	TITANIUM	TOTAL STEEL	TITANIUM
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
HYDRAULIC ROLLER CAMSHAFTS (ALL OUT POWER FOR 5.7L-6.2L) LS _R ™ CATHEDRAL PORT									
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
HYDRAULIC ROLLER CAMSHAFTS (FOR LARGE DISPLACEMENT ONLY, 6.2L-7.4L) LS _R ™ CATHEDRAL PORT									
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT

7 Stock springs cannot be used

11 Lifters only, does not include lifter retainers or guides

82 This kit includes hydraulic roller lifters

100 Kit includes 1.8 ratio rocker arms, for 1.7 ratio us Part #1500

RED NUMBERS ARE THE PREMIUM CHOICE

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HIGH PERFORMANCE GM LS EDITION



GM LS GEN III/IV THREE-BOLT 8 CYL. 1997-PRESENT

LS™ RECTANGULAR PORT HYDRAULIC ROLLER CAMSHAFTS (ALL OUT POWER FOR 5.7L-6.2L)

NEW – APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART #	CAM GRIND #	DURATION @ .050%				VALVE LIFT W/ 1.7 ROCKER		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
HYDRAULIC ROLLER-Excellent torque with a very broad power band. Great for street performance and drivability.	Hyd.	Hyd.	1500 to 6700	54-453-11	269LRR HR13	269	285	219	235	.607	.621	113°
HYDRAULIC ROLLER-Good street/strip camshaft with very wide range.	Hyd.	Hyd.	1900 to 7000	54-454-11	277LRR HR13	277	293	227	243	.614	.624	113°
HYDRAULIC ROLLER – Very wide power range & excellent mid-range torque for LS engines with rectangular port cylinder head.	Hyd.	Hyd.	2000 to 7000	54-469-11 ⁷	281LRR HR13	281	297	231	247	.617	.624	113°
HYDRAULIC ROLLER – Very strong from mid-range to high end torque & horsepower for LS engines with rectangular port cylinder heads.	Hyd.	Hyd.	2200 to 7200	54-470-11 ⁷	285LRR HR13	285	301	235	251	.621	.624	113°
HYDRAULIC ROLLER – Broad top end power range for high rpm, race only LS engines with aftermarket rectangular port heads and higher compression.	Hyd.	Hyd.	2400 to 7200	54-471-11 ⁷	289LRR HR14	289	305	239	255	.624	.624	114°
HYDRAULIC ROLLER – Excellent top end & high rpm power for race style LS engines with aftermarket rectangular port cylinder heads.	Hyd.	Hyd.	2600 to 7200	54-472-11 ⁷	293LRR HR14	293	309	243	259	.624	.624	114°

NEW – LS™ RECTANGULAR PORT HYDRAULIC ROLLER CAMSHAFTS (FOR LARGE DISPLACEMENT ONLY, 6.2L-7.4L)

HYDRAULIC ROLLER – 400+c.i., high rpm applications with major modifications and rectangular port cylinder heads.	Hyd.	Hyd.	2400 to 7000	54-473-11 ⁷	297LRR HR14	297	313	247	263	.624	.624	114°
HYDRAULIC ROLLER – 420+c.i., high compression, high rpm, rectangular CNCported heads in race type applications.	Hyd.	Hyd.	2600 to 7000	54-474-11 ⁷	301LRR HR15	301	317	251	267	.624	.624	115°
HYDRAULIC ROLLER – 440+c.i., purpose built applications focusing on power above 6000 rpm with rectangular port heads.	Hyd.	Hyd.	2800 to 7200	54-475-11 ⁷	305LRR HR15	305	321	255	271	.624	.624	115°
HYDRAULIC ROLLER – All out power for extreme displacement race application engines with rectangular port cylinder heads.	Hyd.	Hyd.	3000 to 7200	54-476-11 ⁷	309LRR HR15	309	325	259	275	.624	.624	115°

NEW – LS™ CENTRIFUGAL BLOWER HYDRAULIC ROLLER CAMSHAFTS

HYDRAULIC ROLLER – Strong mid-range power when used with a centrifugal blower.	Hyd.	Hyd.	2200 to 7000	54-477-11 ⁷	277LCB HR14	277	293	227	243	.614	.624	114°
HYDRAULIC ROLLER – Good high rpm power when used with a centrifugal blower.	Hyd.	Hyd.	2500 to 7200	54-478-11 ⁷	285LCB HR15	285	301	235	251	.621	.624	115°
HYDRAULIC ROLLER – Best cam for high rpm power in race application when using a centrifugal blower.	Hyd.	Hyd.	3000 to 7200	54-479-11 ⁷	293LCB HR16	293	309	243	259	.624	.624	116°

NEW – LS™ ROOTS BLOWER HYDRAULIC ROLLER CAMSHAFTS

HYDRAULIC ROLLER – Best in street/strip LS applications equipped with a Roots type supercharger.	Hyd.	Hyd.	2400 to 7000	54-467-11 ⁷	289LRB HR14	289	293	239	243	.624	.624	114°
HYDRAULIC ROLLER – Designed for race applications with a Roots blower. Very strong high rpm power.	Hyd.	Hyd.	2700 to 7200	54-468-11 ⁷	297LRB HR14	297	301	247	251	.624	.624	114°

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7 Stock springs cannot be used
11 Lifters only, does not include lifter retainers or guides

HIGH PERFORMANCE GM LS EDITION



GM LS GEN III/IV THREE-BOLT 8 CYL. 1997-PRESENT

HYDRAULIC ROLLER CAMSHAFTS (ALL OUT POWER FOR 5.7L-6.2L) LS _R ™ RECTANGULAR PORT									
LIFTERS	TIMING SET	ROCKER ARMS & KITS	RPM KITS	PUSHRODS	BEEHIVE™ VALVE SPRING KITS			DUAL VALVE SPRING KITS	
					STEEL	TOTAL STEEL	TITANIUM	TOTAL STEEL	TITANIUM
850-16 ¹¹ 875-16 ¹¹	3153KT	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
HYDRAULIC ROLLER CAMSHAFTS (FOR LARGE DISPLACEMENT ONLY, 6.2L-7.4L) LS _R ™ RECTANGULAR PORT									
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
HYDRAULIC ROLLER CAMSHAFTS LS _R ™ CENTRIFUGAL BLOWER									
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT

82 This kit includes hydraulic roller lifters
100 Kit includes 1.8 ratio rocker arms, for 1.7 ratio use Part #1500

101 Kit includes 1.8 ratio rockers
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RED NUMBERS ARE THE PREMIUM CHOICE



HIGH PERFORMANCE GM LS EDITION



GM LS GEN III/IV THREE-BOLT 8 CYL. 1997-PRESENT

LS_R™ TURBO HYDRAULIC ROLLER CAMSHAFTS (REMOTE MOUNT)

NEW – APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART #	CAM GRIND #	DURATION @ .050%				VALVE LIFT W/ 1.7 ROCKER		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
HYDRAULIC ROLLER – Good responsiveness and excellent power when used with a remote mount turbo system.	Hyd.	Hyd.	2200 to 7000	54-480-11 ⁷	277LTB HR15	277	273	227	223	.614	.610	115°
HYDRAULIC ROLLER – High rpm street/strip applications using a remote mount turbo system.	Hyd.	Hyd.	2700 to 7200	54-481-11 ⁷	285LTB HR15	285	281	235	231	.621	.617	115°

NEW – XFI™ SOLID ROLLER MECHANICAL ROLLER CAMSHAFTS

MECHANICAL ROLLER – High performance street, excellent torque and mid-range power. Programmer and valve spring upgrade required.	.016	.018	1800 to 6400	54-500-11 ⁷	XFI2700113	270	277	235	240	.646	.641	113°
MECHANICAL ROLLER – Street/strip, superb mid and upper rpm power. Intake upgrade recommended. Programmer and valve spring upgrade required.	.016	.018	2100 to 6700	54-501-11 ⁷	XFI278R113	278	285	243	248	.653	.648	113°
MECHANICAL ROLLER – High rpm street/strip camshaft for large cubic inch Gen III applications. Intake upgrade strongly recommended. Programmer and valve spring upgrade required.	.016	.018	2400 to 7000	54-502-11 ⁷	XFI286R113	286	293	251	256	.660	.655	113°

GM LS GEN IV SINGLE-BOLT W/O VVT 8 CYL. 2005-PRESENT

NEW – XFI™ HYDRAULIC ROLLER CAMSHAFTS

NEW – APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART #	CAM GRIND #	DURATION @ .050%				VALVE LIFT W/ 1.7 ROCKER		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
HYDRAULIC ROLLER – Great street/strip camshaft for mid-range and high rpm power. Must have programmer.	Hyd.	Hyd.	1800 to 6800	146-426-11 ⁷	XR275HR13	275	287	222	234	.566	.576	113°
HYDRAULIC ROLLER – High rpm street/strip camshaft for use with FAST™ LSX™ intake. Requires programmer.	Hyd.	Hyd.	2200 to 7200	146-428-11 ⁷	XR281HR13	281	293	228	240	.571	.590	113°

NEW – LS_R™ HYDRAULIC ROLLER CAMSHAFTS (TURBO REMOTE MOUNT)

HYDRAULIC ROLLER-Good responsiveness and excellent power when used with a remote mount turbo system.	Hyd.	Hyd.	2200 to 7000	146-480-11 ⁷	277LTB HR15	277	273	227	223	.614	.610	115°
HYDRAULIC ROLLER-High rpm street/strip applications using a remote mount turbo system.	Hyd.	Hyd.	2700 to 7200	146-481-11 ⁷	285LTB HR15	285	281	235	231	.621	.617	115°

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HIGH PERFORMANCE GM LS EDITION



GM LS GEN III/IV THREE-BOLT 8 CYL. 1997-PRESENT

HYDRAULIC ROLLER CAMSHAFTS (REMOTE MOUNT) LS _R ™TURBO									
LIFTERS	TIMING SET	ROCKER ARMS & KITS	RPM KITS	PUSHRODS	BEEHIVE™ VALVE SPRING KITS			DUAL VALVE SPRING KITS	
					STEEL	TOTAL STEEL	TITANIUM	TOTAL STEEL	TITANIUM
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	3153KT	16755-KIT ¹⁰⁰ 1501 ¹⁰⁰	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
MECHANICAL ROLLER CAMSHAFTS XFI™ SOLID ROLLER									
8956-16	3153KT	1500 1501 ¹⁰¹	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
8956-16	3153KT	1500 1501 ¹⁰¹	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
8956-16	3153KT	1500 1501 ¹⁰¹	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT

GM LS GEN IV SINGLE-BOLT W/O VVT 8 CYL. 2005-PRESENT

HYDRAULIC ROLLER CAMSHAFTS XFI™									
LIFTERS	TIMING SET	ROCKER ARMS & KITS	RPM KITS	PUSHRODS	BEEHIVE™ VALVE SPRING KITS			DUAL VALVE SPRING KITS	
					STEEL	TOTAL STEEL	TITANIUM	TOTAL STEEL	TITANIUM
850-16 ¹¹ 875-16 ¹¹	7106	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926 TI-KIT
850-16 ¹¹ 875-16 ¹¹	7106	16765-KIT ¹⁰¹ 1521	54100 54200 ⁸²	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
HYDRAULIC ROLLER CAMSHAFTS (TURBO REMOTE MOUNT) LS _R ™									
850-16 ¹¹ 875-16 ¹¹	7106	16765-KIT ¹⁰¹ 1521	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	7106	16765-KIT ¹⁰¹ 1521	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT

7 Stock springs cannot be used
 11 Lifters only, does not include lifter retainers or guides
 82 This kit includes hydraulic roller lifters
 100 Kit includes 1.8 ratio rocker arms, for 1.7 ratio use Part #1500
 101 Kit includes 1.8 ratio rockers

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HIGH PERFORMANCE GM LS EDITION



GM LS GEN IV SINGLE-BOLT W/O VVT 8 CYL. 2005-PRESENT

LS™ HYDRAULIC ROLLER CAMSHAFTS

NEW – APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART #	CAM GRIND #	DURATION @ .050%				VALVE LIFT W/ 1.7 ROCKER		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
HYDRAULIC ROLLER – Excellent torque with a very broad power band. Great for street performance and drivability.	Hyd.	Hyd.	1500 to 6700	146-456-11 ⁷	269LrR HR13	269	285	219	235	.607	.621	113°
HYDRAULIC ROLLER – Good street/strip camshaft with wide range.	Hyd.	Hyd.	1900 to 7000	146-458-11 ⁷	277LrR HR13	277	293	227	243	.614	.624	113°
HYDRAULIC ROLLER – Very strong from mid-range to high end torque & hp for single-bolt LS3.	Hyd.	Hyd.	2200 to 7200	146-460-11 ⁷	285LrR HR13	285	301	235	251	.621	.624	113°
HYDRAULIC ROLLER – Broad top end power range for high rpm race only, single-bolt LS3 applications.	Hyd.	Hyd.	2400 to 7200	146-461-11 ⁷	289LrR HR14	289	305	239	255	.624	.624	114°
HYDRAULIC ROLLER – Excellent top end and high rpm power for race applications using the single-bolt LS3.	Hyd.	Hyd.	2600 to 7200	146-462-11 ⁷	293LrR HR14	293	309	243	259	.624	.624	114°

GM LS GEN IV SINGLE-BOLT W/ VVT 8 CYL. 2005-PRESENT

NEW – XFI™ SPR HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART #	CAM GRIND #	DURATION @ .050%				VALVE LIFT W/ 1.7 ROCKER		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
HYDRAULIC ROLLER – Excellent responsiveness and low end torque with good power gains.	Hyd.	Hyd.	1300 to 6500	156-400-13 ⁷	263PHR14	263	277	210	224	.556	.568	114°
HYDRAULIC ROLLER – Substantial power and torque gains across the board.	Hyd.	Hyd.	1600 to 6700	156-401-13 ⁷	267PHR14	267	281	214	228	.559	.571	114°
HYDRAULIC ROLLER – Substantial power and torque gains across the board.	Hyd.	Hyd.	1800 to 6900	156-402-13 ⁷	271PHR14	271	285	218	232	.563	.575	114°
HYDRAULIC ROLLER – Best choice for maximum power in aftermarket/CNC head applications.	Hyd.	Hyd.	2000 to 7100	156-403-13 ⁷	275PHR14	275	289	222	236	.566	.578	114°

GM LS GEN IV SINGLE-BOLT W/ VVT & AFM 8 CYL. 2005-PRESENT

NEW – XFI™ SPR HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART #	CAM GRIND #	DURATION @ .050%				VALVE LIFT W/ 1.7 ROCKER		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
HYDRAULIC ROLLER-Substantial power and torque gains across the power range.	Hyd.	Hyd.	1600 to 6700	156-421-13	266PHR14	278 266	290 278	216 214	228 226	.500	.500	114°
HYDRAULIC ROLLER-Extremely strong from 4500 rpms to 6900. Slightly noticeable idle.	Hyd.	Hyd.	1800 to 6900	156-422-13	270PHR15	282 270	294 282	220 218	232 230	.500	.500	115°
HYDRAULIC ROLLER-Extremely strong from 4500 rpms to 6900. Slightly noticeable idle.	Hyd.	Hyd.	2000 to 7100	156-423-13	274PHR16	286 274	298 296	224 222	236 234	.500	.500	116°

Except as noted, not legal for sale or use on pollution-controlled motor vehicles

HIGH PERFORMANCE GM LS EDITION



GM LS GEN IV SINGLE-BOLT W/O VVT 8 CYL. 2005-PRESENT

HYDRAULIC ROLLER CAMSHAFTS LS _R ™									
LIFTERS	TIMING SET	ROCKER ARMS & KITS	RPM KITS	PUSH-RODS	BEEHIVE™ VALVE SPRING KITS			DUAL VALVE SPRING KITS	
					STEEL	TOTAL STEEL	TITANIUM	TOTAL STEEL	TITANIUM
850-16 ¹¹ 875-16 ¹¹	7106	16765-KIT ¹⁰¹ 1521	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 875-16 ¹¹	7106	16765-KIT ¹⁰¹ 1521	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16 ¹¹	7106	16765-KIT ¹⁰¹ 1521	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16 ¹¹	7106	16765-KIT ¹⁰¹ 1521	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT
850-16 ¹¹ 15850-16 ¹¹ 15956-16 ¹¹	7106	16765-KIT ¹⁰¹ 1521	N/A	7955-16	N/A	N/A	N/A	26926TS-KIT	26926TI-KIT

GM LS GEN IV SINGLE-BOLT W/ VVT 8 CYL. 2005-PRESENT

HYDRAULIC ROLLER CAMSHAFTS XF1™ SPR									
LIFTERS	TIMING SET	ROCKER ARMS & KITS	RPM KITS	PUSH-RODS	BEEHIVE™ VALVE SPRING KITS			DUAL VALVE SPRING KITS	
					STEEL	TOTAL STEEL	TITANIUM	TOTAL STEEL	TITANIUM
N/A	5456	16765-KIT ¹⁰¹ 1521	54100	N/A	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
N/A	5456	16765-KIT ¹⁰¹ 1521	54100	N/A	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
N/A	5456	16765-KIT ¹⁰¹ 1521	54100	N/A	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
N/A	5456	16765-KIT ¹⁰¹ 1521	54100	N/A	26918CS-KIT	26918TS-KIT	26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT

GM LS GEN IV SINGLE-BOLT W/ VVT & AFM 8 CYL. 2005-PRESENT

HYDRAULIC ROLLER CAMSHAFTS XF1™ SPR									
LIFTERS	TIMING SET	ROCKER ARMS & KITS	RPM KITS	PUSH-RODS	BEEHIVE™ VALVE SPRING KITS			DUAL VALVE SPRING KITS	
					STEEL	TOTAL STEEL	TITANIUM	TOTAL STEEL	TITANIUM
N/A	5456	16765-KIT ¹⁰¹ 1521	54100	N/A	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
N/A	5456	16765-KIT ¹⁰¹ 1521	54100	N/A	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT
N/A	5456	16765-KIT ¹⁰¹ 1521	54100	N/A	26915CS-KIT 26918CS-KIT	26915TS-KIT 26918TS-KIT	26915TI-KIT 26918TI-KIT	26925TS-KIT 26926TS-KIT	26925TI-KIT 26926TI-KIT

7 Stock springs cannot be used
11 Lifters only, does not include lifter retainers or guides
82 This kit includes hydraulic roller lifters

100 Kit includes 1.8 ratio rocker arms, for 1.7 ratio us Part #1500
101 Kit includes 1.8 ratio rockers

RED NUMBERS ARE THE PREMIUM CHOICE

Except as noted, not legal for sale or use on pollution-controlled motor vehicles



**HIGH PERFORMANCE
GM LS EDITION**



COMP CAMS TIMING SETS

ADJUSTABLE TIMING SETS – BILLET GEARS, +/-6 DEG CAM SPROCKET, +/-4 DEG CRANK SPROCKET

PART #	DESCRIPTION
3158KT	LS Single Chain Hex Adjust Type for 3 Bolt Cam, 1 Pole Reluctor (24X)
3172KT	LS Single Chain Hex Adjust Type for 3 Bolt Cam, 4 Pole Reluctor (58X)
3167KT	LS7 Single Chain Hex Adjust Type for 3 Bolt Cam, 4 Pole Reluctor (58X)



9 KEYWAY ADJUSTABLE BILLET TIMING SETS – BILLET GEARS, +/- 8 DEG ADVANCE

PART #	DESCRIPTION
7107	LS Single Chain 9 Keyway for 1 bolt cam, 4 Pole Reluctor (58X)
7102	Gen III LS2 (early Model with 24X only)
7105	LS2 (Single Bolt)
7106	LS3 9 Keyway for 3 Bolt cam, 4 Pole Reluctor (58X)



GM LS TIMING SETS FOR RHS/LSX RAISED CAM BLOCKS

PART #	DESCRIPTION
9158KT	LS Single Chain Hex Adjust Type for 3 Bolt Cam, 1 Pole Reluctor (24X)
9172KT	LS Single Chain Hex Adjust Type for 3 Bolt Cam, 4 Pole Reluctor (58X)
9673T3	LS Single Chain 3 Keyway 3 Bolt Cam, 4 Pole Reluctor (58X)
9658T3	LS Single Chain 3 Keyway 3 Bolt Cam, 1 Pole Reluctor (24X)
9672T3	LS Single Chain 3 Keyway 1 Bolt Cam, 4 Pole Reluctor (58X)
9673T9	LS 9 Keyway for 1 Bolt Cam. 4 Pole Reluctor (58X)
9658T9	LS 9 Keyway for 3 Bolt Cam. 1 Pole Reluctor (24X)
9672T9	LS 9 Keyway for 1 Bolt Cam. 4 Pole Reluctor (58X)
3173KT	LS Double Chain Hex Adjust for 3 bolt Cam, 1 Pole Reluctor (24X)
3154	LS Double Chain 3 Keyway for 3 Bolt Cam, 1 Pole Reluctor (24X)
9167KT	LS7 Single Chain Hex Adjust for 3 Bolt Cam, 4 Pole Reluctor (58X) 1 pc oil cog w gear
9667T3	LS7 Single Chain 3 Keyway for 3 Bolt Cam, 4 Pole Reluctor (58X)





**HIGH PERFORMANCE
GM LS EDITION**



COMP CAMS LIFTERS

If you're looking for the ultimate lifter to withstand even the most demanding racing conditions, look no further. The COMP Cams® new Elite Race™ Solid Roller Lifters feature a host of advantages over competing race lifter designs, including an SAE 8620 steel alloy body that is CNC-machined and REM-finished, SAE 9310 steel alloy wheels that are micro-polished and micro-sized, and needles that are made from 52100 bearing steel and micro-sorted with a controlled contour profile.

PART #	DESCRIPTION
98956-16	Elite Race Solid Roller Lifters, 8 Pairs, .842" Diameter
98954-16	Elite Race Solid Roller Lifters, 8 Pairs, .875" Diameter
98952-16	Elite Race Solid Roller Lifters, 8 Pairs, .904" Diameter



Endure-X™ Lifters are fully heat-treated, machined to ultra-high tolerances are fully rebuildable and are available for a wide variety of applications, including small base circle and offset applications. EDM technology guarantees the bearing assembly receives a constant flow of pressurized oil.

PART #	DESCRIPTION
8956-16	Endure-X Solid Roller Lifters, 8 Pairs, LS1/2/6, .842" Diameter
8958-16	Endure-X Solid Roller Lifters, 8 Pairs, LSX/Warhawk Block, .842" Diameter

Short Travel Hydraulic Roller Lifters from COMP Cams® are engineered specifically to perform at higher engine speeds by keeping the internal movement to a minimum.

PART #	DESCRIPTION
875-16	Short Travel Hydraulic Roller Lifters, Set of 16, OE Type, 122g, 2.60" Seat Height
15850-16	Short Travel Hydraulic Roller Lifters, Set of 16, OE Type, 132g, 2.66" Seat Height



HIGH PERFORMANCE GM LS EDITION



COMP CAMS ROCKER ARMS

PART #	DESCRIPTION
19024-16	ULTRA-GOLD ARC SERIES ROCKER ARMS, SET OF 16, 1.72 RATIO, 8mm STUD
19025-16	ULTRA-GOLD ARC SERIES ROCKER ARMS, SET OF 16, 1.82 RATIO, 8mm STUD



PART #	DESCRIPTION
1675-16	ULTRA PRO MAGNUM ROCKER ARMS, SET OF 16, LS1/6, 1.8 RATIO, 3/8 STUD,
1676-16	ULTRA PRO MAGNUM ROCKER ARMS, SET OF 16, LS3, 1.8 RATIO, 3/8 SUTD



PART #	DESCRIPTION
1500	SHAFT MOUNT ROCKER SYSTEM, 2 SETS, LS1/2/6, CATHEDRAL PORT, 1.7 RATIO
1501	SHAFT MOUNT ROCKER SYSTEM, 2 SETS, LS1/2/6, CATHEDRAL PORT, 1.8 RATIO
1521	SHAFT MOUNT ROCKER SYSTEM, 2 SETS, LS3/L92, RECTANGLE PORT, .215 OFFSET, 1.7 RATIO
11523	SHAFT MOUNT ROCKER SYSTEM, 2 SETS, LS7, 1.8 RATIO



SCORPION ROCKER ARMS



PART #	DESCRIPTION
SCP1098	RACE SERIES ROCKER ARMS, SET OF 16, LS1/2/6, 1.7 RATIO
SCP1099	RACE SERIES ROCKER ARMS, SET OF 16, LS1/2/6, 1.8 RATIO
SCP1063	RACE SERIES ROCKER ARMS, SET OF 16, LS3/9/L92, 1.7 RATIO
SCP1065	RACE SERIES ROCKER ARMS, SET OF 16, LS3/9/L92, 1.8 RATIO



T&D COMPETITION ROCKER ARMS

PART #	DESCRIPTION
20042	T&D 8620 STEEL ROCKER ARMS, SET OF 16, LS1/2/6, 1.7-1.8 RATIO, 1.450 LENGTH
20044	T&D 8620 STEEL ROCKER ARMS, SET OF 16, GM LS3/9/L92, 1.7-1.8 RATIO, 1.450 LENGTH
20047	T&D 8620 STEEL ROCKER ARMS, SET OF 16, LS1 TRICKFLOW, 1.7-1.8 RATIO, 1.450 LENGTH
2008	T&D 8620 STEEL ROCKER ARMS, SET OF 16, LS7, 1.7-1.8 RATIO, 1.600 LENGTH
2180	T&D 8620 STEEL ROCKER ARMS, SET OF 16, WARHAWK LS7, 1.7-1.8 RATIO, 1.600 LENGTH



PART #	DESCRIPTION
90097	HOWARDS OE ROCKER ARMS, SET OF 16, LS1/2/6, 1.7 RATIO
90098	HOWARDS OE ROCKER ARMS, SET OF 16, LS1/2/6, 1.8 RATIO
90095	HOWARDS OE ROCKER ARMS, SET OF 16, LS3/L92, 1.7 RATIO
90096	HOWARDS OE ROCKER ARMS, SET OF 16, LS3/L92, 1.8 RATIO





**HIGH PERFORMANCE
GM LS EDITION**



PERFORMANCE

CHEVROLET PERFORMANCE LS1 FRONT DRIVE DISTRIBUTOR COVER KIT

Kit includes front cover, fuel pump eccentric, distributor drive gear kit assembly, adapter unit with color-coded spacers, assembly bolts, and front cover seal. Distributor and mechanical fuel pump not included. Uses Small-Block Ford-style distributor and mechanical fuel pump. Special water pump, accessory drive and damper required.

ADDITIONAL REQUIRED PARTS	
PART #	DESCRIPTION
MSD-8382, MSD-8579	Equivalent, Requires Coil and MSD6AL Controller for HEI use Proform 66969R
9860	Mr Gasket Distributor Hold Down Clamp
6904	Carter Fuel Pump Street
60454	Street/Strip
60968	Race
50025L	Water Pump
916045	Steel
916099	Aluminum ATI Crank Hub
918993	ATI Drill Fixture Kit



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of High Performance brands - from
Classic to Modern Muscle!



SPRINT CAR FRONT DRIVE KIT FOR LS

Sprint Cars equipped with LS engine technology now have a gear drive made just for them. Designed for the Racing Head Service® LS Race Block, the new COMP Cams® Sprint Car Front Drive Kit for LS Engines bolts directly to the existing engine block with no new parts to buy or modifications needed. The only Sprint Car style gear drive on the market, this kit is also used to mount Sprint Car style oil pumps, water pumps and magnetos. There is no need for new pumps, as the kit is designed to work with the current standard pumps, including those currently running on Small Block Chevys that can be switched over to the LS. Meanwhile, the kit also features oil passages that provide oiling directly to the gears and bearings, and the gears themselves are designed from 9310 premium steel. The kit utilizes integrated adapters for AN fittings on water passages, and the cover is cast from aluminum and CAD designed to be both lightweight and extremely strong. Finally, the kit features integrated optional cam and crank sensors. Designed and proven for racing duty, the COMP Cams® Sprint Car Front Drive Kit For LS Engines is the first and only fully engineered, bolt-on assembly providing proper and reliable solution for cam thrust bearings, distributor/magneto, oil pump, water pump, camshaft/crank timing and gear drive.

PART #	DESCRIPTION
5940	For RHS LS Block
5941	For GM LS Block



The LS Covers feature provisions for a timing pointer, OEM camshaft sensor and any regular SBC crank trigger. The covers easily fit double roller timing chains and high pressure/volume oil pumps, and they come with a gasket and crank seal; no modifications needed.

PART #	DESCRIPTION
5496	Comp Cams LS1/LS2/LS3/LS6 Timing Cover (Fits RHS or GM Block)
5497	Comp Cams LS7



COMP CAMS BILLET GM LS BELT TENSIONERS

The GM LS engines with the factory spring loaded belt tensioners become prone to throwing belts when used in performance applications and with aftermarket balancers. These bolt-on Billet LS Belt Tensioners are a fully adjustable solution for controlling potentially damaging resonance and maintaining desired belt tension.

PART #	DESCRIPTION
54021	LS1/2/3/6/7 Adjustable Belt Tensioner w/ Idler pulley for passenger Cars (Will not work with Trucks)
54025	GM LS1 Adjustable Belt Tensioner, 1998-02 F-Body



COMP CAMS CAM LS PHASER LIMITER KITS

PART #	DESCRIPTION
5456	GM Gen IV 2007-08 VVT Cam Phaser Limiter Kit
5454	GM Gen IV 2007-Present VVT Cam Phaser Limiter Tool
5455	Gen IV 2007-Present VVT Cam Phaser Limiter Spring Lock Tool
5457	Gen IV 2007-2008 VVT Cam Phaser Limiter Plug
5460	GM Gen IV 2009-Present VVT Cam Phaser Limiter Kit
5459	Gen IV 2009-Present VVT Cam Phaser Limiter Plug





HIGH PERFORMANCE GM LS EDITION



O.E. STYLE PERFORMANCE HYDRAULIC ROLLER LIFTERS

PART #	DESCRIPTION
91113	GM Gen III (LS-Series)



O.E. STYLE VARIABLE DURATION HYDRAULIC ROLLER LIFTERS

91113FB	GM Gen III (LS-Series)
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STREET SERIES RETRO-FIT HYDRAULIC ROLLER LIFTERS

Note: Specifically designed for street applications to 6500 rpm.

91166	GM Gen III (LS-Series)
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RACE SERIES VERTICAL BAR HYDRAULIC ROLLER LIFTERS - All new proprietary hydraulic valving specifically designed for continuous operation to 6600 rpm. With ideal seat pressures between 150-160 lbs.

91156	GM Gen III (LS-Series)
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HIGH RPM HYDRAULIC ROLLER LIFTERS Designed to operate at rpm ranges over 7000 rpm. **Note:** Spring pressure requirements for these lifters are 200-225 lbs. seat pressure, 500-575 lbs. open pressure. Specific lash adjustments are also required. Sets of 8 pr.

91175	GM Gen III (LS-Series)
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MAX EFFORT MECHANICAL ROLLER LIFTERS

91177	GM Gen III (LS-Series)
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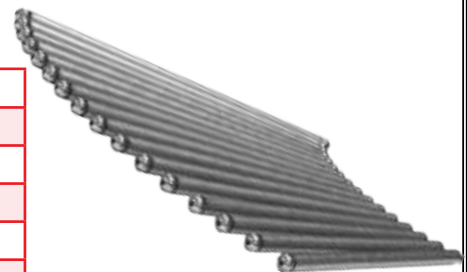
GM GEN III/IV DIRECT BOLT-ON ROLLER ROCKERS These roller rocker kits are a direct bolt-on for the OE rocker arms on most GM Gen III engines. No need for changing of pushrods, guide plates or rocker studs. No need for valve cover spacers. They feature needle bearing fulcrums and roller tips, centerless ground trunnions, centerless ground pins and rollers. Available with stock 1.70 ratio or high lift 1.80. Lifetime Warranty to the original purchaser (with proof of purchase)! Made in the USA. Sets of 16.

PART #	DESCRIPTION	PART #	DESCRIPTION
Gen III 90097	GM Gen III 1.70 (LS1, LS2, LS6, LS364/400 & LQ9)	Gen IV 90095	GM Gen IV 1.70 (LS3 & L92)
Gen III 90098	GM Gen III 1.80 (LS1, LS2, LS6, LS364/400 & LQ9)	Gen IV 90096	GM Gen IV 1.80 (LS3 & L92)



PERFORMANCE SERIES C1010 PUSHRODS .060 wall C1010 material. Heat treated for use with guide plates. Designed for spring pressures up to 500 lbs.

PART #	DESCRIPTION	PART #	DESCRIPTION
5/16 C1010 Pushrods (sets of 16)		5/16 C1010 Pushrods (sets of 16)	
95200	7.144 (Chev SB HRC Retro-Fit)	95206	7.850
95201	7.205 (OE Hyd. Roller)	95207	7.900 (Chev SB, +.100 length)
95203	7.700	95208	7.950
95204	7.750	95209	8.000
95204	7.800 (Chev SB, std. length)	95210	8.050



HIGH PERFORMANCE GM LS EDITION



.080 WALL SWEDGED END PUSHRODS 5/16 Swedged End Pushrods (sets of 16)

PART #	DESCRIPTION
95007	5/16, 6.800 (Ford SB, std. length)
95020	5/16, 7.100
95021	5/16, 7.150 (Chev SB HRC Retro-Fit)
95022	5/16, 7.200 (OE Hyd. Roller)
95023	5/16, 7.300
95018	5/16, 7.400 (LS1, std. length)

PART #	DESCRIPTION
95008	5/16, 7.700
95009	5/16, 7.750
95010	5/16, 7.800 (Chev SB, std. length)
95011	5/16, 7.850
95012	5/16, 7.900 (Chev SB, +.100 length)



DOUBLE ROLLER BILLET STEEL TIMING SETS 9-keyways. .250 diameter seamless roller. **Note:** No machining required.

PART #	DESCRIPTION
94308	Chevrolet Gen III 97-05, LS1/6 3-Bolt, with Roller Thrust Bearing, 9-Keyway
94304	Chevrolet Gen III 05-present, LS2/LSR/LR4 Single-Bolt, with Roller Thrust Bearing, 9-Keyway



PART #	STYLE	OUTER O.D.	OUTER I.D.	DAMPER	CLOSED PRESSURE	OPEN PRESSURE	RATE	MAX LIFT	COIL BIND	STEEL RETAINER
98115	Inverted Conical Ovate	1.055/1.289	.660/.880	N	102 @ 1.800	260 @ 1.200	265	.600	1.150	97161

INVERTED CONICAL VALVE SPRINGS Gen III (LS1/2/6)

PART #	STYLE	LOWER O.D.	TOP O.D.	LOWER I.D.	TOP I.D.	DAMPER	CLOSED PRESSURE	OPEN PRESSURE	RATE	MAX LIFT
98115	Inverted Conical Ovate	1.289	1.055	.880	.660	N	102 @ 1.800	260 @ 1.200	265	.600
98113	Inverted Conical	1.280	1.035	.900	.650	N	108 @ 1.800	329 @ 1.265	412	.600
98113	Inverted Conical	1.280	1.035	.900	.650	N	108 @ 1.800	345 @ 1.225	412	.600
98117	Inverted Conical	1.450	1.295	1.014	.859	N	118 @ 1.950	375 @ 1.380	457	.580

COIL BIND	TITANIUM RETAINER	STEEL RETAINER
1.150	—	97161
1.150	—	97161
1.150	—	97161
1.320	97214	97112/97132

GM GEN III (LS1/2/6) DUAL VALVE SPRINGS

GM Gen III LS1, LS2 and LS6 performance applications. .640 max lift. Sets of 16.

PART #	STYLE	OUTER O.D.	OUTER I.D.	INNER O.D.	INNER I.D.	DAMPER	CLOSED PRESSURE	OPEN PRESSURE	RATE	MAX LIFT
98116	Dual	1.290	.955	.950	.830	N	135 @ 1.800	355 @ 1.150	340	.640
98118	Dual	1.295	.935	.935	.667	N	148 @ 1.800	413 @ 1.150	407	.660

COIL BIND	TITANIUM RETAINER	STEEL RETAINER	SEAT CUP/LOCATOR
1.100	97165	97162	96023
1.060	97165	—	96023



HIGH PERFORMANCE GM LS EDITION



CAMSHAFTS

CHEVROLET GEN III • LS-SERIES 3-BOLT 1997-PRESENT

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.	
Hydraulic Roller Camshafts												
190315-14	NA	260	264	210	214	.595	.598	114	110	Hyd.	Hyd.	1
1000-5800 High lift short duration design, Great throttle response.												
190235-14	NA	269	278	216	224	.551	.551	114	110	Hyd.	Hyd.	1
1200-6200 Aggressive Street/Strip, upper torque & horsepower.												
190275-17	NA	272	278	216	224	.553	.553	117	113	Hyd.	Hyd.	1
1400-6400 Street/Strip, Great mid to upper end power. 9.5:1+ CR.												
190255-13	NA	270	270	218	218	.604	.604	113	109	Hyd.	Hyd.	1,12
1500-6500 Good drivability with great mid range power.												
190395-13	NA	268	274	218	224	.604	.612	113	109	Hyd.	Hyd.	1,12
1600-6600 Great mid range performance with top end power.												
190295-12	NA	271	275	218	224	.604	.604	112	108	Hyd.	Hyd.	1,12
1600-6600 Mid range to top end power & torque. Nice throttle response.												
197245-12	NA	267	276	219	228	.525	.525	112	108	Hyd.	Hyd.	12
1700-6700 Our version of the GM Hot cam. Advanced lobe design for increased performance.												
190225-13	NA	272	272	222	222	.561	.561	113	109	Hyd.	Hyd.	1,12
1800-6500 Street/Strip power. Great mid range with top end performance.												
190245-12	NA	272	281	222	225	.561	.578	112	108	Hyd.	Hyd.	1,12
1800-6600 Street/Strip applications, mid-range torque & horsepower.												
190285-13	NA	274	274	224	224	.612	.612	113	109	Hyd.	Hyd.	1,12
1800-6800 Street/Strip performance, Good mid range power. Needs good heads.												
190375-12	NA	274	280	224	230	.609	.604	112	108	Hyd.	Hyd.	1,12
1800-6800 Broad power range. Best with Cathedral Port heads & aftermarket intake.												
190385-12	NA	274	286	224	234	.612	.638	112	108	Hyd.	Hyd.	1,12
1800-7000 Aggressive Street/Strip, also great with small blower or NOS.												
190385-15	NA	274	286	224	234	.612	.638	115	111	Hyd.	Hyd.	12
1800-7000 Aggressive Street/Strip, ideal for supercharged or NOS applications.												
190735-13	NA	274	274	226	226	.525	.525	113	109	Hyd.	Hyd.	1,12
1900-7100 Street/Strip, Good mid & upper range torque & performance.												
190325-12	NA	281	284	226	232	.578	.587	112	108	Hyd.	Hyd.	1,12
2000-7200 Aggressive Street/Strip, upper torque & horsepower. Needs good heads.												
190325-15	NA	281	284	226	232	.578	.587	115	111	Hyd.	Hyd.	12
2000-7200 Aggressive Street/Strip, upper torque & horsepower.												
197715-10	NA	274	285	226	236	.525	.525	110	106	Hyd.	Hyd.	12
2000-7400 Our version of the GM ASA cam. Advanced lobe design for increased performance.												
197715-13	NA	274	285	226	236	.525	.525	113	109	Hyd.	Hyd.	1,12
1900-7300 Same as #197715-10 w/wider separation for easier tunability & smoother power band.												
190965-13	NA	278	280	230	232	.625	.625	113	109	Hyd.	Hyd.	1,12
2200-7500 Competition, Great mid range torque and power. Good heads, 2500+ stall.												
190335-13	NA	278	294	230	246	.625	.625	113	109	Hyd.	Hyd.	1,12
2200-7200 Hot Street/Strip. Great mid range performance. Best with Cathedral Port heads.												
190345-13	NA	278	297	230	250	.625	.625	113	109	Hyd.	Hyd.	1,12
2200-7200 Hot Street/Strip with blower or large NOS system. Big mid range power.												

HIGH PERFORMANCE GM LS EDITION



CAMSHAFTS

CHEVROLET GEN III • LS-SERIES 3-BOLT 1997-PRESENT(cont.)

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.		
190355-12	NA	280	284	232	236	.625	.625	112	108	Hyd.	Hyd.	1,12	
2200-7200 Fair idle, Excellent mid range performance. 2500+ stall, 10.5:1 CR, 3.70-4.20 gear.													
190905-12	NA	287	290	236	238	.612	.604	112	108	Hyd.	Hyd.	1,12	
2400-7400 Large cubic inch, Race only applications. Needs aftermarket intake, 2500+ stall.													
190265-10	NA	287	295	236	242	.612	.612	110	106	Hyd.	Hyd.	1,12	
2600-7200 Hot Street/Strip. Great mid range torque. 2800+ stall, 11.0:1+ CR, better heads/intake.													
190265-13	NA	287	295	236	242	.612	.612	113	109	Hyd.	Hyd.	1,12	
2600-7200 Large cubic inch, Race only applications. Needs aftermarket heads & intake, higher CR.													
190405-13	NA	288	295	240	248	.625	.625	113	109	Hyd.	Hyd.	1,12	
2800-7200 Broad top end power. Needs aftermarket heads & intake, plus higher CR.													
190305-15	NA	290	290	242	242	.625	.625	115	111	Hyd.	Hyd.	1,12	
2800-7400 Competition, large cubic inch. Needs aftermarket heads & intake, plus higher CR.													
199995	NA	Custom Grind Camshaft									Hyd.	Hyd.	1,12
Hydraulic Roller Special Order Camshaft.													

CHEVROLET GEN III • LS-SERIES 3-BOLT 1997-PRESENT

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.		
Mechanical Roller Camshafts													
199993	NA	Custom Grind Camshaft											1,12
Mechanical Roller Special Order Camshaft.													

CHEVROLET GEN IV • LS-SERIES SINGLE-BOLT 2005-PRESENT WITHOUT VVT

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.		
Hydraulic Roller Camshafts													
190976-12	NA	272	284	222	232	.561	.586	112	108	Hyd.	Hyd.	1,12	
1800-6800 Street/Strip applications, mid-range torque & horsepower.													
190536-16	NA	275	274	228	224	.625	.612	116	114	Hyd.	Hyd.	1,12	
2000-6800 Street, Street/Strip Turbo'd (remote) applications. Strong mid range torque. 2000+ stall.													
190496-12	NA	279	289	228	238	.588	.604	112	108	Hyd.	Hyd.	1,12	
2200-7000 Street/Mild Race, Broad torque range. Great mid range performance.													
190916-16	NA	284	280	236	232	.625	.625	116	114	Hyd.	Hyd.	1,12	
2600-7200 Street/Strip Turbo'd (remote) applications. Strong mid & upper rpm performance.													
190806-12	NA	284	297	236	250	.625	.625	112	108	Hyd.	Hyd.	1,12	
2400-7200 Aggressive Street/Competition, Good mid to upper end horsepower. 2500+ stall.													
190866-13	NA	288	304	240	256	.625	.625	113	109	Hyd.	Hyd.	1,12	
2600-7200 Competition, Great top end power. 2800+ stall, aftermarket intake & better heads.													
190926-13	NA	292	307	244	260	.625	.625	113	109	Hyd.	Hyd.	1,12	
2800-7400 Competition, large cubic inch. Great high rpm power. 3000+ stall.													
199996	NA	Custom Grind Camshaft									Hyd.	Hyd.	1,12
Mechanical Roller Special Order Camshaft.													

Notes: master note list on page 96

1 Stock (O.E.) valve springs cannot be used. 12 Requires custom programmer/tuning.



**HIGH PERFORMANCE
GM LS EDITION**

MAHLE

Driven by performance

Mahle LS Pistons

PART #		BORE	STROKE	ROD LENGTH	CH	Pin	Weight G	66cc	64cc	72cc	Alloy
LS1/2/6 Flat Top – 1.5, 1.5, 3.0mm File Fit Performance Ring Set Included											
LS1340898F04	346	3.898	3.622	6.098	1.340	0.945	394	9.9	10.1	9.3	4032
LS1340905F04	347	3.905	3.622	6.098	1.340	0.945	398	9.9	10.1	9.3	4032
LS1340908F04	348	3.908	3.622	6.098	1.340	0.945	398	9.9	10.1	9.3	4032
LS1340000F04	364	4.000	3.622	6.098	1.340	0.945	398	10.3	10.5	9.6	4032
LS1340005F04	365	4.005	3.622	6.098	1.340	0.945	399	10.3	10.5	9.7	4032
LS1340010F04	366	4.010	3.622	6.098	1.340	0.945	398	10.3	10.6	9.7	4032
LS1340030F04	370	4.030	3.622	6.098	1.340	0.945	404	10.4	10.7	9.8	4032
LS1330800F04	329	3.800	3.622	6.098	1.330	0.945	400	9.5	9.7	8.9	4032
LS1314898F04	346	3.898	3.622	6.125	1.314	0.927	388	9.9	10.1	9.3	4032
LS1314905F04	347	3.905	3.622	6.125	1.314	0.927	390	9.9	10.1	9.3	4032
LS1314908F04	348	3.908	3.622	6.125	1.314	0.927	392	9.9	10.1	9.3	4032
LS1314005F04	365	4.005	3.622	6.125	1.314	0.927	398	10.3	10.5	9.7	4032
LS1314030F04	370	4.030	3.622	6.125	1.314	0.927	409	10.4	10.7	9.8	4032
LS1105005F04	403	4.005	4.000	6.125	1.105	0.927	400	11.3	11.5	10.6	4032
LS1105030F04	408	4.030	4.000	6.125	1.105	0.927	410	11.4	11.7	10.7	4032
LS1/2/6 Inverted Dome – 1.5, 1.5, 3.0mm File Fit Performance Ring Set Included											
LS1314905I16	347	3.905	3.622	6.125	1.314	0.927	403	8.7	8.9	8.3	2618
LS1314908I16	348	3.908	3.622	6.125	1.314	0.927	404	8.8	8.9	8.3	2618
LS1105005I28	403	4.005	4.000	6.125	1.105	0.927	369	8.9	9.1	8.5	2618
LS1105030I28	408	4.030	4.000	6.125	1.105	0.927	374	9	9.2	8.6	2618
LS1105905I06	383	3.905	4.000	6.125	1.105	0.927	382	10.6	10.8	9.9	4032
LS1105908I06	384	3.908	4.000	6.125	1.105	0.927	384	10.6	10.8	10	4032
LS1105005I12	403	4.005	4.000	6.125	1.105	0.927	403	10.3	10.6	9.8	4032
LS1105010I12	404	4.010	4.000	6.125	1.105	0.927	403	10.4	10.6	9.8	4032
LS1105030I12	408	4.030	4.000	6.125	1.105	0.927	407	10.5	10.7	9.9	4032
LS7 Flat Top – .043, 1.5 Napier, 3.0mm File Fit Performance Rings Included											
LS7181125F03	427	4.125	4.000	6.067	1.181	0.927	454	12	12.2	11.2	4032
LS7181130F03	429	4.130	4.000	6.067	1.181	0.927	458	12	12.3	11.2	4032
LS7105125F03	427	4.125	4.000	6.125	1.105	0.927	385	12	12.2	11.2	4032
LS7105130F03	429	4.130	4.000	6.125	1.105	0.927	428	12	12.3	11.2	4032
LS7105135F03	430	4.135	4.000	6.125	1.105	0.927	430	12.1	12.4	11.3	4032
LS7 Inverted											
LS7105125I25	427	4.125	4.000	6.125	1.105	0.927	444	9.7	9.9	9.2	4032
LS7105130I25	429	4.130	4.000	6.125	1.105	0.927	448	9.8	10	9.3	4032



MAHLE

Driven by performance

Mahle LS Pistons (cont'd)

PART #		BORE	STROKE	ROD LENGTH	CH	Pin	Weight G	66cc	64cc	72cc	Alloy
LS3/L92 Flat Top – 1.5, 1.5, 3.0mm File Fit Performance Ring Set Included											
L92340065F04	376	4.065	3.622	6.098	1.340	0.945	445	—	10.1	—	4032
L92340070F04	377	4.070	3.622	6.098	1.340	0.945	448	—	10.1	—	4032
L92314030F04	370	4.030	3.622	6.125	1.314	0.927	449	—	10	—	4032
L92314065F04	376	4.065	3.622	6.125	1.314	0.927	460	—	10.1	—	4032
L92314070F04	377	4.070	3.622	6.125	1.314	0.927	462	—	10.1	—	4032
L92105005F04	403	4.005	4.000	6.125	1.105	0.927	416	—	10.8	—	4032
L92105030F04	408	4.030	4.000	6.125	1.105	0.927	425	—	10.9	—	4032
L92105065F04	415	4.065	4.000	6.125	1.105	0.927	430	—	11.1	—	4032
L92105070F04	416	4.070	4.000	6.125	1.105	0.927	431	—	11.1	—	4032
L92105075F04	417	4.075	4.000	6.125	1.105	0.927	431	—	11.2	—	4032
L92105125F04	428	4.125	4.000	6.125	1.105	0.927	438	—	11.3	—	4032
L92105155F04	434	4.155	4.000	6.125	1.105	0.927	440	—	11.4	—	4032
L92045070T08	427	4.070	4.100	6.125	1.045	0.927	417	—	11.1	—	2618
LS3/L92 Inverted Dome – 1.5, 1.5, 3.0mm File Fit Performance Ring Set Included											
L92314005I12	365	4.005	3.622	6.125	1.314	0.927	445	—	9.1	—	2618
L92314070I12	377	4.070	3.622	6.125	1.314	0.927	466	—	9.3	—	2618
L92105005I20	403	4.005	4.000	6.125	1.105	0.927	411	—	9.2	—	2618
L92105030I20	408	4.030	4.000	6.125	1.105	0.927	420	—	9.3	—	2618
L92105065I25	415	4.065	4.000	6.125	1.105	0.927	431	—	9.1	—	4032
L92105070I25	416	4.070	4.000	6.125	1.105	0.927	433	—	9.1	—	4032
L92105125I25	428	4.125	4.000	6.125	1.105	0.927	432	—	9.1	—	4032
L92105065P25	415	4.065	4.000	6.125	1.105	0.927	431	—	9.3	—	2618
L92105070P25	416	4.070	4.000	6.125	1.105	0.927	433	—	9.1	—	2618
L92105125P25	428	4.125	4.000	6.125	1.105	0.927	432	—	9.1	—	2618
L92055070I30	428	4.070	4.125	6.125	1.055	0.927	414	—	9.3	—	2618
L92055070I08	428	4.070	4.125	6.125	1.055	0.927	425	—	9	—	2618
L92055075I08	428	4.075	4.125	6.125	1.055	0.927	427	—	10.9	—	4032
L92045070P31	427	4.070	4.100	6.125	1.045	0.927	412	—	10.9	—	4032
LSX Combo Flat Top – .043, 1.5 Napier, 3.0mm File Fit Performance Rings Included											
LSX045125F08	438	4.125	4.100	6.125	1.045	0.927	450	—	10.8	—	4032
LSX045130F08	439	4.130	4.100	6.125	1.045	0.927	453	—	10.9	—	4032



Mahle LS7 Piston



Mahle LS1 Piston



HIGH PERFORMANCE GM LS EDITION



CHEVROLET LS ENGINE

PART #	ROD	C/H	PIN	DISH/DOME	CR			GRAM WEIGHT	TOP LAND	VALVE-RLF DEPTH-DIA.		BORE	STROKE	O.E. Deck Ht.	ALLOY	LOCKRING
					67cc					INT	EXH					
CHEVROLET 366-LS V8 DISH-2V																
IC961 / KTD	6.125	1.202	.927 x 2.225	DISH 8cc	9.9			405/105	.250	.182-2.200	.180-1.720	3.898	3.825	9.240	2618	PRJ100-3
CHEVROLET 383-LS V8 DISH-2V																
IC962 / KTD	6.125	1.115	.927 x 2.225	DISH 12cc	9.9			405/105	.260	.182-2.200	.180-1.720	3.9050	4.000	9.240	2618	PRJ100-3

Notes: Centered Pin. **OVERSIZES:** .007 RING PACK: 2-1.5mm / 1-3.0mm RINGSET PART NO: 3898CD8-.010

PART #	ROD	C/H	PIN	DISH/DOME	CR			GRAM WEIGHT	TOP LAND	VALVE-RLF DEPTH-DIA.		BORE	STROKE	O.E. Deck Ht.	ALLOY	LOCKRING
					64cc	66cc	72cc			INT	EXH					
CHEVROLET 402-LS V8 STEP-DISH-2V																
IC901 / KTD	6.125	1.115	.927 x 2.225	S-DISH 29cc	9.3	9.1	8.7	380/105	.250	.240-2.200	.239-1.720	4.002	4.000	9.240	2618	PRJ100-3
CHEVROLET 402-LS V8 FLAT TOP-2V																
IC900 / KTD	6.125	1.115	.927 x 2.225	FT/2V 3cc	12.1	11.8	11.0	366/105	.180	.181-2.200	.182-1.720	4.002	4.000	9.240	2618	PRJ100-3

Notes: Centered Pin. Check For Proper Rod To Piston Clearance. **OVERSIZES:** .003 / .020 / .030 RING PACK: 2-1/16 / 1-3/16 RINGSET PART NO: 4000BD8

PART #	ROD	C/H	PIN	DISH/DOME	CR			GRAM WEIGHT	TOP LAND	VALVE-RLF DEPTH-DIA.		BORE	STROKE	O.E. Deck Ht.	ALLOY	LOCKRING
					64cc	66cc	72cc			INT	EXH					
CHEVROLET 402-LS V8 FLAT TOP-2V																
IC975 / KTD	6.125	1.115	.927 x 2.225	FT/2V 4.1cc	11.9	11.9	10.6	367/105	.240	.236-2.270	.163-1.720	4.000	4.000	9.240	2618	PRJ100-3

Notes: Centered Pin. Check For Proper Rod To Piston Clearance. **OVERSIZES:** .005 / .030 / .065 / .080 RING PACK: 2-1.5mm / 1-3.0mm RINGSET PART NO: 4000CD8

PART #	ROD	C/H	PIN	DISH/DOME	CR			GRAM WEIGHT	TOP LAND	VALVE-RLF DEPTH-DIA.		BORE	STROKE	O.E. Deck Ht.	ALLOY	LOCKRING
					64cc	66cc	72cc			INT	EXH					
CHEVROLET 428-LS V8 STEP-DISH-2V																
IC903 / KTD	6.125	1.115	.927 x 2.225	S-DISH 29cc	9.7	9.6	9.1	405/105	.250	.240-2.200	.239-1.720	4.125	4.000	9.240	2618	PRJ100-3
CHEVROLET 428-LS V8 FLAT TOP-2V																
IC902 / KTD	6.125	1.115	.927 x 2.225	FT/2V 3cc	12.7	12.4	11.6	383/105	.180	.181-2.200	.182-1.720	4.125	4.000	9.240	2618	PRJ100-3

Notes: Centered Pin. Check For Proper Rod To Piston Clearance. **OVERSIZES:** .003 / .020 / .030 RING PACK: 2-1/16 / 1-3/16 RINGSET PART NO: 4125BD8





KING PERFORMANCE BEARINGS



PART #	DESCRIPTION
CR807XPN	LS Connecting Rod Bearings XP Series
MB5013XP	LS Main Bearings XP Series
CS5503HP	LS Cam Bearings HP Series
CS5510HP	LS Cam Bearing HP Series

CLEVITE PERFORMANCE BEARINGS

PART #	DESCRIPTION
CB663HN	LS Connecting Rod Bearings H-Series
MS2188H	LS Main Bearings H-Series

DURA-BOND PERFORMANCE CAM BEARINGS

PART #	DESCRIPTION
CHP10	LS '99-'03, Bi-Metal Cam Bearings, Chill-Cast Micro Babbitt
CHP10T	LS '99-'03, Bi-Metal Cam Bearings, Chill-Cast Micro Babbitt
CHP23	LS 03-'07, Bi-Metal Cam Bearings, Chill-Cast Micro Babbitt
CHP23T	LS 03-'07, Bi-Metal Cam Bearings, Chill-Cast Micro Babbitt, Coated
CHP25	LS 08-'13, Bi-Metal Cam Bearings
CHP25T	LS 08-'13, Bi-Metal Cam Bearings

DAMPERS



PART #	DESCRIPTION
D-80032	LS1 Camaro, Scat
D-80033	LS1/6 Corvette, Scat
D-90032	LS1 Camaro, Scat, SFI Approved
D-90033	LS1/6 Corvette, Scat, SFI Approved
80032	LS1/2 Camaro-Firebird, Professional Products
80033	LS1/6 Corvette, Professional Products
90032	LS1/2 Camaro-Firebird, Professional Products, SFI Approved
90033	LS1/6 Corvette, Professional Products, SFI Approved



HIGH PERFORMANCE GM LS EDITION



Chevy LS Series Forged 4340

STANDARD WEIGHT CRANKSHAFT

PART #	SHORT #	FLYWHEEL BOLT	STROKE	ROD LENGTH	ROD PIN	WEIGHT	TECH NOTES
4-LS1-4000-6125-24	4LS140062	11mm X 1.5	4.000	6.125	2.100	48	24-Tooth Relcutor Wheel
4-LS1-4000-6125-58	4LS140065	11mm X 1.5	4.000	6.125	2.100	48	58-Tooth Relcutor Wheel
4-LS1-4125-6125-24	4LS141262	7/16 X 20*	4.125	6.125	2.100	48	24-Tooth Relcutor Wheel
4-LS1-4125-6125-58	4LS141265	7/16 X 20*	4.125	6.125	2.100	48	58-Tooth Relcutor Wheel
4-LS1-4250-6125-24	4LS142562	7/16 X 20*	4.250	6.125	2.100	48	24-Tooth Relcutor Wheel
4-LS1-4250-6125-58	4LS142565	7/16 X 20*	4.250	6.125	2.100	48	58-Tooth Relcutor Wheel

* ARP Bolts Included

Chevy LS Series

H-BEAM & I-BEAM CONNECTING RODS

FORGED 4340 H-BEAM CONNECTING RODS

PART #	SHORT #	DDESCRIPTION	PART #	SHORT #	ROD LENGTH	CRANK PIN	WRIST PIN	B.E. WIDTH	WEIGHT (*)
2-LS1-6100-2100-927	66100927	BUSHED	2-LS1-6100-2100-927A	6100927A	6.100	2.100	.927	.940	—
2-LS1-6100-2100-945	66100945	BUSHED	2-LS1-6100-2100-945A	6100945A	6.100	2.100	.945	.940	—
2-350-6125-2100-QLS	6612521QLS	BUSHED	2-350-6125-2100-QLSA	6612521QLSA	6.125	2.100	.927	.940	530 GMS

NOTE: .927 Pin for Performance Pistons

FORGED 4340 PRO COMP I-BEAM

PART #	SHORT #	DDESCRIPTION	PART #	SHORT #	ROD LENGTH	CRANK PIN	WRIST PIN	B.E. WIDTH	WEIGHT (*)
Stroker PRO Comp									
2-ICR6125-7/16	26125716	BUSHED	2-ICR6125-7/16A	26125716A	6.125	2.100	.927	.940	610 GMS
Stock Replacement									
2-ICR6100-927	26100927	BUSHED	2-ICR6100-927A	26100927A	6.100	2.100	.927	.940	595 GMS
2-ICR6100-944P	26100944P	PRESSED	2-ICR6100-944PA	26100944PA	6.100	2.100	.944	.940	600 GMS

>>With ARP8740

>> ARP 2000 7/16 Cap Screws

NOTE: .927 Pin for Performance Pistons

HIGH PERFORMANCE GM LS EDITION



Chevy LS Series

ROTATING ASSEMBLIES

LS SERIES 4340 FORGED STREET & STRIP ROTATING ASSEMBLIES

CRANK	ROD	CRANK STROKE	ROD LENGTH	PISTON	PISTON BORE	TYPE	COMPRESSION	UNBAL'D CRANK, ROD, PISTONS, RINGS, BEARINGS	BALANCED COMPLETED ASSY
Internal Balanced Rotating Assemblies – 24 Tooth Reluctor Wheel (2005 & Prior)									
4-LS1-4000-6125-24	2-ICR6125-7/16	4.000	6.125	FORGED	NOTE 1	FLAT	11.5	1-41900	1-41900BI
4-LS1-4000-6125-24	2-ICR6125-7/16	4.000	6.125	FORGED	NOTE 1	DISH	9.3	1-41901	1-41901BI
4-LS1-4125-6125-24	2-ICR6125-7/16	4.125	6.125	FORGED	NOTE 1	FLAT	11.5	1-41920	1-41920BI
4-LS1-4125-6125-24	2-ICR6125-7/16	4.125	6.125	FORGED	NOTE 1	DISH	9.3	1-41921	1-41921BI
Internal Balanced Rotating Assemblies – 58 Tooth Reluctor Wheel									
4-LS1-4000-6125-58	2-ICR6125-7/16	4.000	6.125	FORGED	NOTE 1	FLAT	11.5	1-41910	1-41910BI
4-LS1-4000-6125-58	2-ICR6125-7/16	4.000	6.125	FORGED	NOTE 1	DISH	9.3	1-41911	1-41911BI
4-LS1-4125-6125-58	2-ICR6125-7/16	4.125	6.125	FORGED	NOTE 1	FLAT	11.5	1-41930	1-41930BI
4-LS1-4125-6125-58	2-ICR6125-7/16	4.125	6.125	FORGED	NOTE 1	DISH	9.3	1-41931	1-41931BI

LS Series, 4340 Standard Weight Forged Cranks, Pro-Comp I-Beam Connecting Rods with 7/16 Cap Screw, Forged Pistons

LS SERIES 4340 FORGED COMPETITION ROTATING ASSEMBLIES

CRANK	ROD	CRANK STROKE	ROD LENGTH	PISTON	PISTON BORE	TYPE	COMPRESSION	UNBAL'D CRANK, ROD, PISTONS, RINGS, BEARINGS	BALANCED COMPLETED ASSY
Internal Balanced Rotating Assemblies – 24 Tooth Reluctor Wheel (2005 & Prior)									
4-LS1-4000-6125-24	2-350-6125-2100-QLS	4.000	6.125	PREMIUM FORGED	NOTE 1	FLAT	11.5	1-41902	1-41902BI
4-LS1-4000-6125-24	2-350-6125-2100-QLS	4.000	6.125	PREMIUM FORGED	NOTE 1	DISH	9.3	1-41903	1-41903BI
4-LS1-4125-6125-24	2-350-6125-2100-QLS	4.125	6.125	PREMIUM FORGED	NOTE 1	FLAT	11.5	1-41922	1-41922BI
4-LS1-4125-6125-24	2-350-6125-2100-QLS	4.125	6.125	PREMIUM FORGED	NOTE 1	DISH	9.3	1-41923	1-41923BI
Internal Balanced Rotating Assemblies – 58 Tooth Reluctor Wheel									
4-LS1-4000-6125-58	2-350-6125-2100-QLS	4.000	6.125	PREMIUM FORGED	NOTE 1	FLAT	11.5	1-41912	1-41912BI
4-LS1-4000-6125-58	2-350-6125-2100-QLS	4.000	6.125	PREMIUM FORGED	NOTE 1	DISH	9.3	1-41913	1-41913BI
4-LS1-4125-6125-58	2-350-6125-2100-QLS	4.125	6.125	PREMIUM FORGED	NOTE 1	FLAT	11.5	1-41932	1-41932BI
4-LS1-4125-6125-58	2-350-6125-2100-QLS	4.125	6.125	PREMIUM FORGED	NOTE 1	DISH	9.3	1-41933	1-41933BI

LS Series, 4340 Standard Weight Forged Cranks, H-Beam Connecting Rods with 7/16 Cap Screw, Forged Pistons



**HIGH PERFORMANCE
GM LS EDITION**



Callies Crankshafts

PART #	STROKE	MAIN	PINS	DESCRIPTION
Callies Compstar LS1 – Compstar LS1's are Counterweight Prepped for 1785 Bobweight				
AP031N-CS	4.000	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering
APZ317-CS	4.100	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering
APU317-CS	4.125	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering

The Following Part numbers are for an Extended Snout LS7 Type Assembly

AW031N-CS	4.000	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering
AWU317-CS	4.125	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering

Compstar Small Block LSc – Compstar LSc Counter Weights are Adequate for 1680 Bobweight				
AP#31R-CL	3.825	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering
AP031R-CL	4.000	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering

Callies Magnum – Magnum Cranks are Counterweight Prepped for 1785 Bobweight				
AP031T-MG	4.000	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering
APZ31T-MG	4.100	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering
APU31T-MG	4.125	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering

The Following Numbers are for LS7 Extended Snout Magnum Crank

AW031T-MG	4.000	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering
DragonSlayer – Dragonslayer LS1's are counterweight prepped for 1785 Bobweight				
APH31T-DS	3.625	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering
AP031T-DS	4.000	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering
AP034T-DS	4.000	2.559	2.000	Specify 24 or 58 tooth reluctor wheel when ordering
APZ31T-DS	4.100	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering
APU31T-DS	4.125	2.559	2.100	Specify 24 or 58 tooth reluctor wheel when ordering



Callies Connecting Rods

PART #		LENGTH	CRANK PIN	WEIGHT	PISTON PIN
Compstar LS-1 H-Beam					
CSC6100DS2A2AH	LS1	6.100	2.100	611g	0.927
CSC6100DS6A2AH	LS1	6.100	2.100	612g	0.943
CSC6125CS2A2AH	LS1	6.125	2.000	595g	0.927
CSC6125DS2A2AH	LS1	6.125	2.100	618g	0.927
CSC6200DS2A2AH	LS1	6.200	2.100	625g	0.927
CSC6340CS2A2AH	LSX	6.340	2.000	630g	0.927
CSC6440CS2A2AH	LSX	6.440	2.000	639g	0.927
CSC6460DS2A2AH	LSX	6.460	2.100	647g	0.927
CSC6560DS2A2AH	LSX	6.560	2.100	655g	0.927
Compstar LS1 HD I Beam					
CSC6125CS2A2AH	LS1	6.125	2.000	640g	0.927
CSC6125DS2A2AI	LS1	6.125	2.100	647g	0.927
Callies Ultra LS I Beams EXTREME DUTY RACING Increased Stroker Clearance					
U17171	LS1	6.125	2.100	663g	0.927
U17178	LS1	6.350	2.100	673g	0.927
Callies Ultra LS H Beams EXTREME DUTY RACING Increased Stroker Clearance					
U16300	LS1	6.125	2.100	651g	0.927
U16301	LS1	6.460	2.100	661g	0.927
U16302	LS1	6.350	2.100	660g	0.927





LS NEXT

LS NEXT BLOCK



The LS Next Block is the first Significant Change in the bottom end Architecture of the LS engine platform. By eliminating the “Y Block” design and utilizing conventional style main caps and oil pans.(stock pans can be used with Moroso oil pan spacers Part# 22934) Dart has addressed the problems resulting from the LS engine’s seperated crankcase bays. Windage is greatly reduced, resulting in increased power and improved lubrication.

This design change led to several additional improvements. The main webs are significantly stronger because the bay to bay breathing windows are eliminated in Dart’s design. Deleting the windows also allows the cylinder barrels to be extended by .3750” into the crank case, providing greater piston support at the bottom of the stroke. Two standard bore sizes are available, 4.00” and 4.125”. Maximum bore of 4.220” for iron and 4.165” for aluminum, or optional Darton M.I.D. sleeve kit allowing up to 4.220” bore.

All stock and aftermarket LS components can be utilized. Conventional style 4 bolt steel main caps are used. A 5/8” thick full deck design is utilized for superior strength, with six head bolts per cylinder to provide secure clamping. Dart’s priority main oiling system ensures high rpm reliability and includes provision for oil restrictors in the lifter valley.

LS NEXT Iron

PART #	MAIN BEARING	MAIN CAPS	DECK HEIGHT	BORE DIA.
31837111	STANDARD	STEEL	9.24	4
31837211	STANDARD	STEEL	9.24	4.125
31837211	STANDARD	STEEL	9.45	4.125

LS NEXT Aluminum

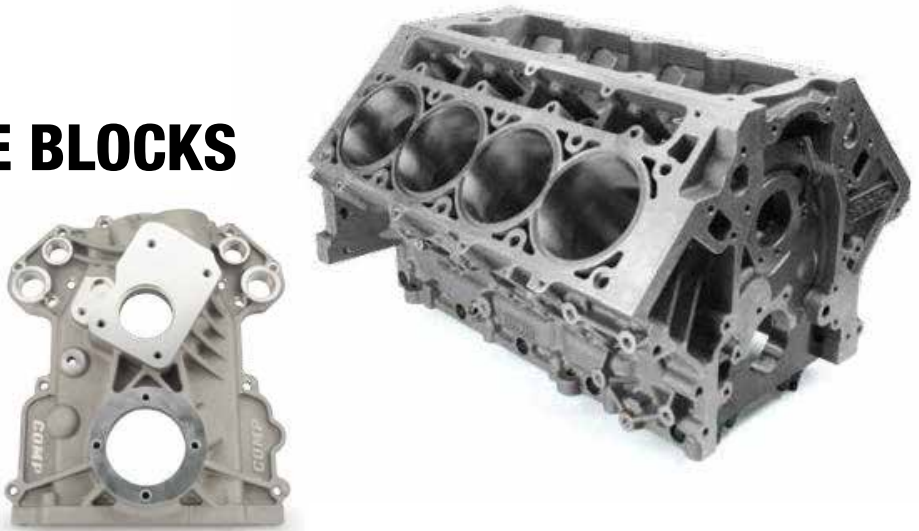
PART #	MAIN BEARING	MAIN CAPS	DECK HEIGHT	BORE DIA.
31937111	STANDARD	STEEL	9.24	4
31937112	STANDARD	STEEL	9.24	4
31937142	STANDARD	STEEL	9.8	4
31937211	STANDARD	STEEL	9.24	4.125
31937212	STANDARD	STEEL	9.24	4.125
31937242	STANDARD	STEEL	9.8	4.125
32000016	Dart LS Next Hardware Kit			



**HIGH PERFORMANCE
GM LS EDITION**



LS ALUMINUM RACE BLOCKS



LS RACE BLOCK APPLICATIONS

PART #	DECK HEIGHT	BORE DIA.	Cylinder Sleeve Length
FINISH HONED			
54906	Standard (9.240)	3.900	5.87
54903	Standard (9.240)	4.125	5.87
54902	Standard (9.240)	4.165	5.87
54901	Tall (9.750)	4.125	6.38
54900	Tall (9.750)	4.165	6.38
BORED, READY TO HONE			
54906U	Standard (9.240)	3.895	5.87
54903U	Standard (9.250)	4.120	5.87
54902U	Standard (9.250)	4.160	5.87
54901U	Tall (9.760)	4.120	6.38
54900U	Tall (9.760)	4.160	6.38
UNFINISHED			
54905	Standard (9.250)	4.100	5.87
54904	Tall (9.760)	4.100	6.38



MOROSO OIL PANS

PART #	DESCRIPTION
21150	Fits: Late Model F-Body, Firebird, 93'-02' Camaro Includes Tray and Pickup Trap Door Baffle Clears 4.125" Stroke Louvered Windage Tray
20144	Fits: Dart LS Next Engine Block Includes Billet Aluminum Spacers w/ Hardware Trap Door Baffle and Removable Windage Tray Clear 4.125" Stroke Requires Stock GM LS Gasket



HOLLY RETRO-FIT OIL PANS

PART #	DESCRIPTION
302-2	Fits: 1955-87 GM Truck/Cars For LS engine requiring more oil pan to chassis clearance around the front half of the oil pan. Cannot handle more than a 3.622" stroke.
302-1	Fits: 1955-87 GM Truck/Car Provides OEM fitment Includes sump baffle, pick-up, sump plug, oil filter stud & oil passage cover



PERFORMANCE

CHEVY PERFORMANCE OIL PANS

PART #	DESCRIPTION
19243065	LS Circle Track Oil Pan, 6 Quart, Req Remote Oil Filter
19212593	Muscle Car Oil Pan Kit, 55'-95', 3.620" Max Stroke





FASTENERS

INTAKE MANIFOLD BOLT KIT

PART #	DESCRIPTION
130-2101 Stainless: 430-2101	LS1/4/6 12pt Intake Manifold Bolt Kit
130-2001 Stainless: 430-2001	LS1/4/6 Hex Intake Manifold Bolt Kit

ENGINE COMPONENT BOLTS

PART #	DESCRIPTION
134-1002	LS Cam Bolt Kit
134-1003	LS Hex Cam Sprocket Bolt Kit
234-2504	LS7 Harmonic Balancer Bolt Kit
234-2503	LS Harmonic Balancer Bolt Kit

ACCESSORY BOLT KIT

PART #	DESCRIPTION
534-9705 Stainless: 534-9505	LS 12pt Engine & Accessory Bolt Kit
534-9805 Stainless: 534-9605	LS Hex Engine & Accessory Bolt Kit

DRIVELINE

PART #	DESCRIPTION
244-2901	LS Flexplate Bolt Kit
244-2902	Ls Flexplate w/ Adapter Plate Bolt Kit
330-2802	LS1 Flywheel Bolt Kit
134-2201	LS Pressure Plate Bolt Kit
134-2203	LS 12" Clutch Pressure Plate Bolt Kit
434-0901	LS Hex Bellhousing Bolt Kit
434-0902	LS 12pt Bellhousing Bolt Kit



FASTENERS

ROD BOLT KITS

PART #	DESCRIPTION
134-6006	LS1 Hi-Perf Cracked Rod Bolt Kit
234-6301	LS1 Cracked Rod Bolt Kit
234-6302	LS7 Rod Bolt Kit

CYLINDER HEAD KITS

PART #	DESCRIPTION
134-3609	LS1/6 Hex Head Bolt Kit
134-3610	LS6 12pt Head Bolt Kit
234-4110	LS1 Pro-Series Hex Head Stud Kit
234-4316	LS1 Thru '03 12pt Head Stud Kit
234-4319	LSX 12pt Head Stud Kit
230-3701	LS9 12pt Head Bolt Kit
134-3611	LS World Motown Block w/ LS Heads, Head Bolt Kit
234-4339	LS RHS Block w/ RHS Heads, Head Stud Kit
234-4341	Dart LS Next 23-Bolt Head Stud Kit

BLOCK FASTENERS

PART #	DESCRIPTION
234-5608	LS1 Cast Iron Main Stud Kit
134-5901	Dart LS Next Main Stud Kit
134-1501 Stainless: 434-1501	LS1/2 Hex Timing Cover Bolt Kit
134-1502 Stainless: 434-1502	LS1/2 12pt Timing Cover Bolt Kit
134-3201 Stainless: 434-3201	LS1/2 Hex Timing Cover & Water Pump Bolt Kit
134-3202 Stainless: 434-3202	LS1/2 12pt Timing Cover & Water Pump Bolt Kit
134-6901 Stainless: 434-6901	LS1/2 Hex Oil Pan Bolt Kit
134-6902 Stainless: 434-6902	LS1/2 12pt Oil Pan Bolt Kit
134-1503 Stainless: 434-1503	LS1/2 Hex Rear Cover Bolt Kit
134-1504 Stainless: 434-1504	LS1/2 12pt Rear Cover Bolt Kit



LOKAR OIL DIPSTICK

Anchor-Tight® Locking Flexible Engine Dipsticks

- Locking mechanism eliminates expulsion of dipstick handle under pressure
- Holds vacuum
- Teflon-lined stainless braided outer housing
- E-Z to read flexible inner dipstick measuring cable



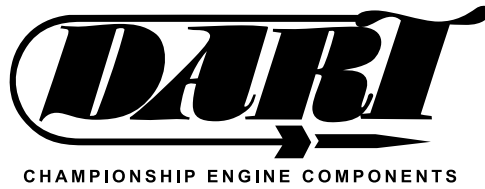
PART #	DESCRIPTION
1220217	LS Series, 99' & Later Truck

PERFORMANCE OIL PUMPS

PART #	DESCRIPTION
17801830	LS1/2/ HV Oil Pump, Chevy Performance, w/ Pick-up
1263097	LS7/L92 2-Stage Oil Pump, Chevy Performance, For Performance Crank
22120	LS1/2/ HV Oil Pump, Moroso, Hard Anodized Coating
10296	LS1/2 HV Oil Pump, Melling
10295	LS1/2 High-Pressure, Melling



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