

# KING RACING

HIGH PERFORMANCE BEARINGS

*The science of speed*

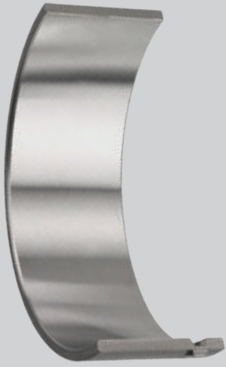






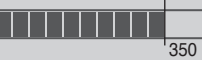

















2023-2024

# RACING

APPLICATION GUIDE



# Choose The Right Material

	HP SERIES	XP SERIES	XPC SERIES	TFC SERIES	GPC SERIES
	 aka Alecular™	 aka pMaxBlack™	 aka pMaxKote™	 aka TOP FUEL	 aka SILVER
Metal Structure	Bi-Metal Aluminum Silicon Alloy	Tri-Metal Copper-lead, Hardened Overlay	Tri-Metal Copper-lead, Hardened Overlay, Coated	Tri-Metal Strengthened Steel, Ductile Copper-lead, Coated	Tri-Metal Silver Overlay, Coated
Competition Type	For applications requiring a harder than Babbitt top layer to better resist extrusion & material migration (drag racing, monster truck, tractor pull). Also for all other applications using nodular cast iron crankshafts.	Circle track, drag racing, off-shore, and other applications using steel crankshafts.	Circle track, drag racing, off-shore, and other applications using steel crankshafts. Polymer Coated.	Top Fuel Dragster, Top Alcohol Dragster, Funny Car, Pro Mod	Diesel Performance, Sprint Cars
Load Characteristics	High load/short duration or medium load/long duration	High load/long duration	High load/long duration	Extra high load/short duration	Very high load/long duration
Melting Temperature	 450 F°	 350 F°	 350 F°	 480 F°	 350 F°
Load Capacity					
Conformability/Embeddability					
Anti-seizure					
Special Attributes	Designed for high loads for short durations	Race geometrical features like U-groove™, ElliptiX™, RadiaLock™	pMaxKote™ polymer coating operates as a solid lubricant	Contains special ductile bronze, extra thick Babbitt & K-40 polymer	Lead-free copper, silver overlay & polymer coating



# Continuously pushing the limits

Today's race engines make more power than ever before. Yesterday's engine bearing load capacity no longer works today... and tomorrow's race engines will be even more powerful. There's a need to meet these demands with higher bearing design standards and improved materials.

King Racing's XP series of rod and main bearings was developed to meet these challenges through technologically advanced geometrical features and a unique metal structure. Together, they drive the industry to a new level of durability and performance.



## pMaxBlack™

### Superior load capacity

A unique tri-metal structure developed to meet the ongoing demand for increased engine bearing load capacity.

- 24% stronger overlay
- 17% more fatigue resistance
- SecureBond™ - A micro-etch process that improves multi-layer adhesion and structural integrity
- Compatible with all crankshafts

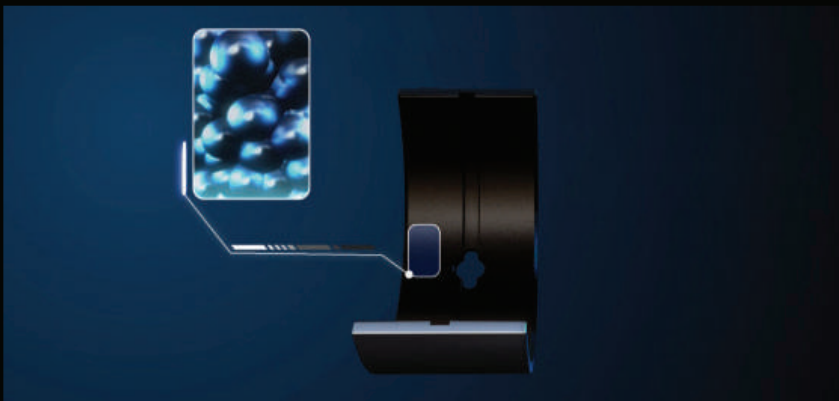
#### Intermediate layer:

- Copper based alloy strengthened by 4.5% tin
- Industry's highest hardness level - 115HV
- Load capacity - 17,000 PSI

#### Overlay:

- Strengthened by 5% copper
- Industry's highest hardness level - up to 18.1HV
- Fatigue resistance - 10,200 PSI

### Breakthrough hardening technology



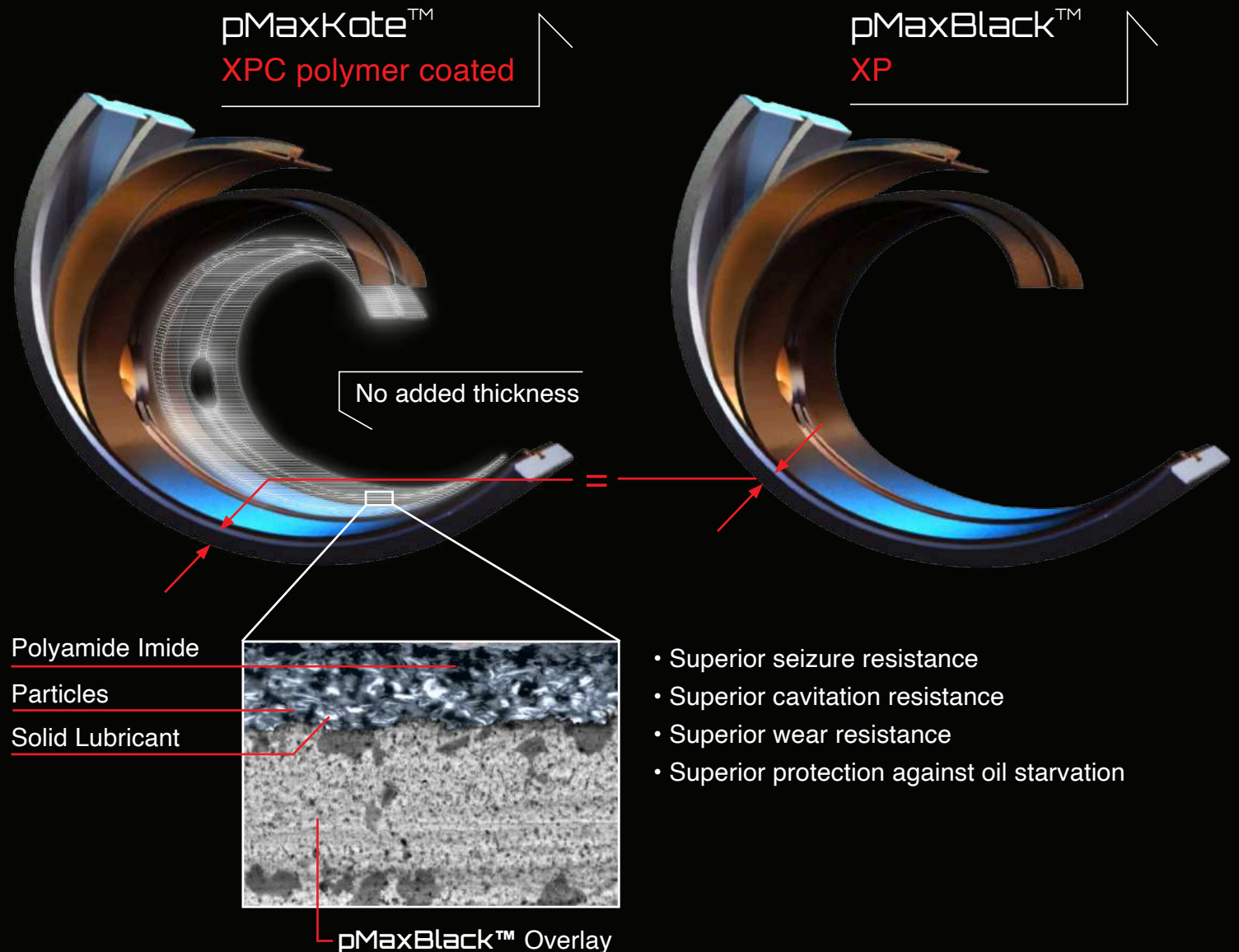
King Racing's new hardening technology modifies the overlay's molecular structure and creates a fatigue resistant shield, capable of carrying 24% more load.

# King Racing Coating Solutions

## pMaxKote™

### King's factory applied nano-composite polymer coating

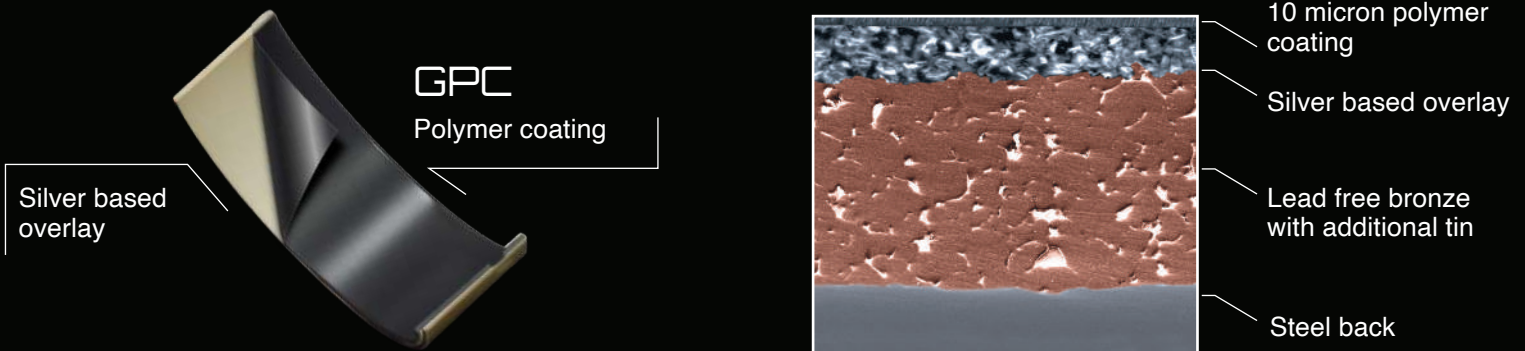
King's factory applied nano-composite polymer coating (pMaxKote™) is a revolutionary approach to coated bearings. It improves wear resistance and protects bearings during periods of marginal lubrication. pMaxKote™ contains ceramic nano-composite particles and solid lubricant. It functions as a fourth layer over the pMaxBlack™ tri-metal bearing structure without changing the original wall thickness dimensions.



# GPC - Silver Composite, Polymer Coated

## The solution for extreme loads

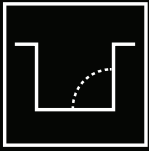
King's new GPC is a tri-metal material that handles 17,000 PSI compared to available race materials that peak at 11,000 PSI. GPC, the polymer coated version of the SV composite, features an intermediate lead-bronze layer over steel, topped by a silver overlay containing solid lubricant particles. GPC's polymer coating helps protect the bearings in case of oil starvation and metal-to-metal contact.



## GPC Applications Range

Make	Application	Rod Bearing	Main Bearing
<b>DIESEL PERFORMANCE</b>			
DODGE/CUMMINS	5.9L B series	CR1035GPC	MB7009GPC (single flange upper) MB7119GPC (double flange)
DODGE/CUMMINS	6.7L B series		MB7009GPC (single flange upper)
FORD	6.7L Powerstroke, 32V Diesel	CR8056GPC	MB5836GPC
FORD	7.3L GODZILLA V8 OHV 16v	CR8064GPC	MB5881GPC
GENERAL MOTORS	403 6.6L Turbo 32v V8 Duramax	CR8037GPC (connecting rods marked B) CR8059GPC (connecting rods marked A)	MB5724GPC MB5848GPC (housing +0.040")
<b>SPORT COMPACT</b>			
AUDI/VOLKSWAGEN	2.0L TFSI EA888 Gen 2	CR4637GPC	MB5778XP
AUDI/VOLKSWAGEN	2.0L TFSI EA888 Gen 3	CR4637GPC	MB5779XP
AUDI/VOLKSWAGEN	2.5L TFSI (CEPA/CEPB) TTRS, RS3, RS Q3	CR5000GPC	MB 639XP
BMW	2.0L DOHC 16v N20B20, N26B20	CR 222GPC	MB5784SI*
BMW	3.0L DOHC 24v N54B30 / N55B30	CR 222GPC	MB7776GPC
BMW	3.0L DOHC 24V S58B30A	CR6903GPC	
BMW	3.0L Toyota Supra GR	CR6887GPC	MB7779XPC
BMW	4.0L DOHC 32v S65B40A	CR 224GPC	MB5803XP (65mm)
BMW	4.4L V8 DOHC 32v N62B44, N63B44, S63B44	CR8049GPC (-2011) CR8050GPC (2011-)	MB5801SM* (70mm)
BMW	4.8L V8 DOHC 32v N62B48	CR8049GPC (-2011) CR8050GPC (2011-)	
BMW	5.0L DOHC 40v S85B50A	CR 224GPC	MB 637XP
TOYOTA	3.0L Toyota Supra GR	CR6887GPC	MB7779XPC
<b>SPRINT CAR</b>			
CUSTOM	1.888" Rod Journal w/ 0.792" length	CR8028GPC	
GENERAL MOTORS	262, 265, 267, 302, 305, 307, 327, 350 OHV 16v V8 Small Block (68-96) 2.100" Large journal	CR 807XPN/XPND CR 807XPNC/XPND	MB 557GPC
GENERAL MOTORS	400 OHV 16v V8 Small Block	CR 807XPN/XPND CR 807XPNC/XPND	MB 509GPC

\* Normal street bearings

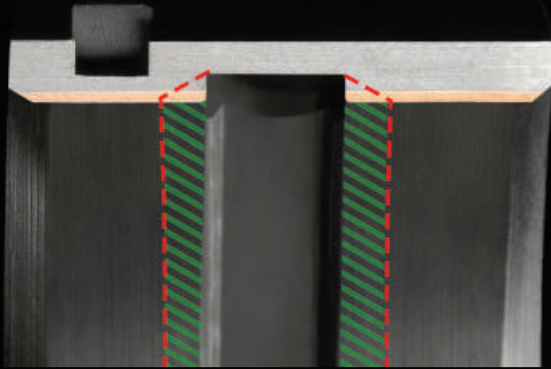


## U-Groove™

### Greater load surface

A unique oil groove design with a 90° groove shape. U-Groove™ increases bearing load capacity by expanding the effective surface area, while keeping oil flow capacity intact.

- Better load distribution across the bearing surface
- More stable hydrodynamic lubrication regime
- Greater bearing durability at high RPM's



## Bull's Eye Tolerance™

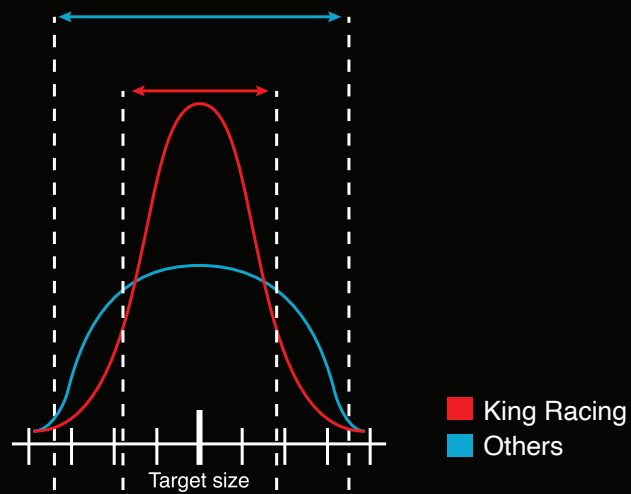
### Perfect clearance in every set

**Bull's Eye Tolerance™** sets new standards in bearing thickness consistency. It outperforms the industry's wall thickness tolerance, ensuring the least thickness variation.

- No more purchasing multiple sets or "fishing" for bearings to reach the right clearance
- No need to grind cranks "fat" or "thin"
- No need to adjust housing diameter
- Less taper across the bearing face

## The most accurate clearance in the industry

### Wall Thickness Variation



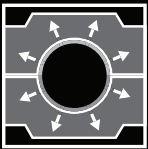
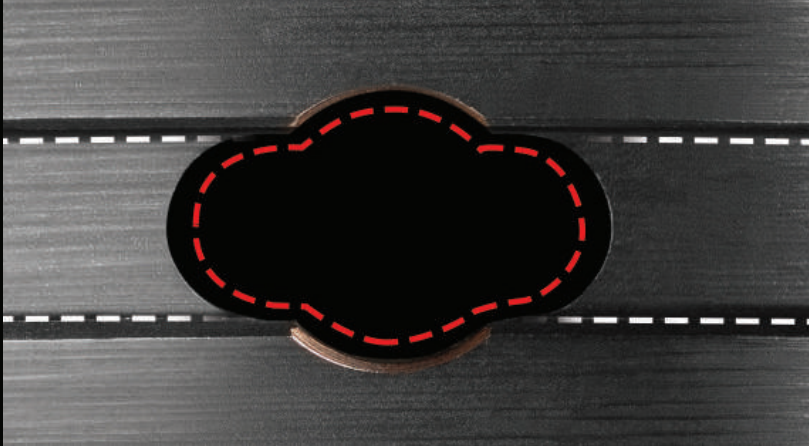


## ElliptiX™

### Improved oil ingress

**ElliptiX™** is a newly designed oil slot / oil hole hybrid. It improves oil ingress without affecting the bearing's surface or compromising the load capacity.

- Increases oil passage capacity
- Higher oil supply reliability
- Eliminates need for custom- made oil hole enlargement



## RadiaLock™

### Optimal crush height and heat transfer

**RadiaLock™** is an optimal crush height value determined by a robust R&D process that customizes each bearing crush height to its specific performance demands.

- Optimal press fit
- Improves bearing spin and fretting prevention
- Better heat transfer
- Reduces bearing and housing distortion



## EccentriX™

### A superior hydrodynamic regime

**EccentriX™** is an optimized eccentricity value reached through elastohydrodynamic analysis and dynamic calculations. Each bearing's eccentricity value is custom designed to meet specific performance requirements.

- Better oil wedge formation
- More stable hydrodynamic lubrication regime
- Reduces vibration and wear
- Prevents oil film "wiping" under high RPM conditions
- Optimizes load distribution across the bearing surface

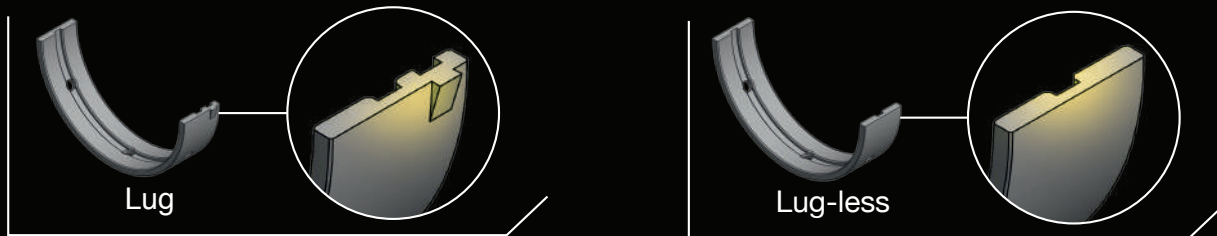
# Bearing Lug Innovation

## New lug-less bearing design

The growing trend among OE engine manufacturers to use robotic equipment for engine block assembly has eliminated their need for locating lugs in engine bearings.

The locating lug has no function in preventing the bearing from spinning. Engine bearings are retained in place as a result of the crush height - a parameter completely unaffected by the presence or absence of a locating lug.

This new lug-less bearing design leaves the aftermarket bearing installer without the traditional visual marker of the bearing location in its housing.



For aftermarket installers, placing a lug-less bearing into its correct position requires additional accuracy and attention to details. Shell and housing should be aligned for unimpeded oil hole orientation and for proper centering to avoid bearing-to-crank fillet ride.

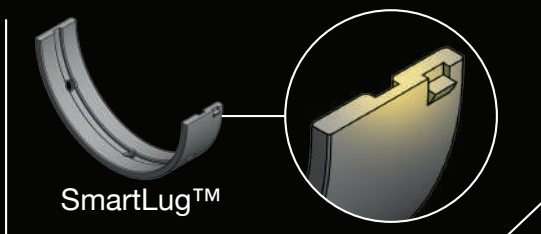
Generally, the proper initial procedure for installing a lug-less bearing is to line up the center of the bearing with the center of the connecting rod or main bore. Slight adjustments can then be performed for final optimal location.

## SmartLug™ by King

### Developed for high performance bearings

SmartLug™ prevents lug generated oil leaks and maintains full bearing surface in the parting line area for better load capacity and oil film distribution.

Traditional locating lug designs reduce available load carrying surface area and can cause oil leak paths, especially when located adjacent to an oil groove. SmartLug™ features a locating lug protruding only from the back of the bearing, leaving the bearing work surface intact.





# Powersports

## Unique tailor made solution for powersports vehicle racing & cruising

Following in-depth research on performance powersports engine needs, King is proud to introduce the industry's first high performance Powersports engine bearing line.

King's Powersports line utilizes pMaxBlack™, a superior performance bearing structure and overlay, developed by King specifically for professional race teams in various demanding race platforms such as NASCAR, drift, drag, rally and more, and the pMaxKote™, the polymer coated version of pMaxBlack™.

### Smart design

King Powersports connecting rod bearings and main bearings are designed with tight, graded tolerances to preserve the exacting hydrodynamic regime required by high RPMs. They are available in thicker and thinner 5 grades of STD to produce less or more clearance as well as 5 grades of 0.25mm to fit ground/resized crankshafts! These bearings are perfectly suited for both on-track competition and touring/cruising riders.

**Want to make the most of your ride?  
Don't compromise with ordinary bearings...  
choose King Powersports bearings.**



### King range for Powersports:

Make	Application	Years	King Nbr	Min Thickness	Max Thickness	OE Ref		
CAN-AM	0.9L X3 TURBO OFFROAD	2017-2020	CR3002XPC	1.482	1.494	420933195		
			MB4201XPC	1.977	1.989	420933180 420933185		
KAWASAKI	ZX-14	2006-2011	CR1710XP STD-1	1.472	1.476			
			CR1710XP STD-2	1.476	1.480	92139-0131		
			CR1710XP STD-3	1.480	1.484	92139-0130		
			CR1710XP STD-4	1.484	1.488	92139-0129		
			CR1710XP STD-5	1.488	1.492			
		2006-2011	MB1336XP STD-1	1.486	1.490			
			MB1336XP STD-2	1.490	1.494			
			MB1336XP STD-3	1.494	1.498	92139-0133		
			MB1336XP STD-4	1.498	1.502			
			MB1336XP STD-5	1.502	1.506			
	2012-	MB1337XP STD-1	1.486	1.490				
		MB1337XP STD-2	1.490	1.494				
		MB1337XP STD-3	1.494	1.498	92139-0136			
		MB1337XP STD-4	1.498	1.502				
		MB1337XP STD-5	1.502	1.506				
		KAWASAKI	ZX-14R	2012-	CR1710XP STD-1	1.472	1.476	
					CR1710XP STD-2	1.476	1.480	92139-0131 92139-0830
KAWASAKI	ZX-14R	2012-	CR1710XP STD-3	1.480	1.484	92139-0130 92139-0829		
			CR1710XP STD-4	1.484	1.488	92139-0828 92139-0129		
			CR1710XP STD-5	1.488	1.492			
			2012-	MB1334XP STD-1	1.486	1.490		
				MB1334XP STD-2	1.490	1.494	92139-0740	
		MB1334XP STD-3		1.494	1.498	92139-0739		
		MB1334XP STD-4		1.498	1.502	92139-0738		
		2012-	MB1334XP STD-5	1.502	1.506			
			MB1335XP STD-1	1.486	1.490			
			MB1335XP STD-2	1.490	1.494	92139-0743		
			MB1335XP STD-3	1.494	1.498	92139-0742		
			MB1335XP STD-4	1.498	1.502	92139-0741		
		POLARIS	1.0L RZR	2017-2020	CR1715XPC STD-1	1.466	1.474	
					CR1715XPC STD-2	1.474	1.482	3514989-053
CR1715XPC STD-3	1.482				1.490			

Make	Application	Years	King Nbr	Min Thickness	Max Thickness	OE Ref
POLARIS	1.0L RZR	2017-2020	MB1340XPC STD-1	1.499	1.507	
			MB1340XPC STD-2	1.507	1.515	3514662-003
			MB1340XPC STD-3	1.515	1.523	
			MB1341XPC STD-1	1.499	1.507	
			MB1341XPC STD-2	1.507	1.515	3514803-003
			MB1341XPC STD-3	1.515	1.523	
SUZUKI	GSX-R1000	2001-2011	CR1712XP STD-1	1.476	1.480	12164-41G01-0A0 12164-47H10-0A0
			CR1712XP STD-2	1.480	1.484	12164-40F00-0A0 12164-41G01-0B0 12164-47H10-0B0
			CR1712XP STD-3	1.484	1.488	12164-40F00-0B0 12164-41G01-0C0 12164-47H10-0C0
			CR1712XP STD-4	1.488	1.492	12164-41G01-0D0 12164-47H10-0D0
			CR1712XP STD-5	1.492	1.496	
		2005-2008 2012-2016	MB1333XP STD-1	1.488	1.492	12229-41G00-0A0
			MB1333XP STD-2	1.492	1.496	12229-41G00-0B0
			MB1333XP STD-3	1.496	1.500	12229-41G00-0C0 12229-41G00-0D0
			MB1333XP STD-4	1.500	1.504	12229-41G00-0E0
			MB1333XP STD-5	1.504	1.508	
SUZUKI	Hayabusa GSX1300R	1999-2017	CR1711XP STD-1	1.480	1.484	12164-46E01-0A0
			CR1711XP STD-2	1.484	1.488	12164-46E01-0B0
			CR1711XP STD-3	1.488	1.492	12164-46E01-0C0
			CR1711XP STD-4	1.492	1.496	12164-46E01-0D0
			CR1711XP STD-5	1.496	1.500	
	2008-2017	MB1332XP STD-1	1.491	1.495	12229-15H00-0A0	
		MB1332XP STD-2	1.495	1.499	12229-15H10-0B0	
		MB1332XP STD-3	1.499	1.503	12229-15H10-0C0 12229-15H10-0D0	
		MB1332XP STD-4	1.503	1.507	12229-15H00-0E0	
		MB1332XP STD-5	1.507	1.511		

Engine	Race Rod Bearing		Race Main Bearing		Thrust Washer	Cam Bearing
	Non-Coated	Polymer Coated	Non-Coated	Polymer Coated		
<b>CUSTOM</b>						
1	1.888" Rod Journal w/ 0.792" length	CR1708XPD (1 pair) CR6899XP (6 pairs) CR8028XP (8 pairs)	CR1708XPDC (1 pair) CR8028GPC (8 pairs) CR8028XPC (8 pairs)			
2	327 Crank Journal w/ 350 rod	CR 867XPN				
3	400 Spacer Bearing (use Chevy 350 crank in 400)			MB5224AM (bearing spacer set)		
4	6.2L 377 OHV 16v V8 Cleveland Stroker Kit Chevy 2.100" pin w/ .712" width	CR8005XP		MB5503HP MB5503XP	MB5503XPC	
5	Top Fuel Engines Chrysler Hemi 3 Inch Main Journals				MB5650TFC20L (20 lowers, housing 3.1922-3.1930) MB5650TFC20U (20 uppers, housing 3.1922-3.1930) MB5860TFC20L (20 lowers, housing 3.1910-3.1915) MB5860TFC20U (20 uppers, housing 3.1910-3.1915)	
<b>ALFA ROMEO</b>						
6	1.3L DOHC 8v 101, 105/31, 115	CR4595XP		MB 511XP		
7	1.6L DOHC 8v 105	CR4595XP		MB 511XP		
8	1.8L DOHC 8v 105.48	CR4595XP		MB 511XP		
9	2.0L DOHC 8v AR016	CR4595XP		MB 511XP		
10	2.0L DOHC 8v AR64103, AR67201	CR4595XP		MB 511XP		
11	3.2L JTS V6 159, Brera, Spider	CR6826XP		MB4272XP		
<b>AUDI / VOLKSWAGEN</b>						
12	1.6L SOHC/OHC 8v AEA			MB5028XP		TW2010AM
13	1.6L SOHC ABB, ABM, ADA, ADP, DT, JU, PP, RN, SA (83-01)	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5566XP	MB5566XPC	TW2010AM
14	1.6L 8v AFT	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5269XP (180° oil groove)		TW2010AM
15	1.6L SOHC/OHC 8v AKS	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5269XP (180° oil groove)		TW2010AM
16	1.6L 8v APF	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5661XP (180° oil groove)		TW2010AM
17	1.6L SOHC/OHC 8v AEH, AKL, AWH, AUR, AHL, ARM	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5661XP (180° oil groove)		TW1004AM
18	1.8L DOHC 20v AVC, AQE, ARH, AVV (97-04)	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5269XP (180° oil groove)		TW2010AM
19	1.8L DOHC 20v AJL (till 99)	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5566XP (360° oil groove in pos. 4) MB5269XP (180° oil groove)	MB5566XPC (360° oil groove in pos. 4)	TW2010AM
20	1.8L DOHC 20v AJL (from 99)	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5661XP (180° oil groove)		TW2010AM
21	1.8L 20v APH	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5269XP		TW2010AM
22	1.8L SOHC 10v 4B, DR, DS, DZ, JN, JV, JW, NE, NP, PH, PM, PV, RS, RU, SF, SH (82-91)	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5566XP	MB5566XPC	TW2010AM
23	1.8L DOHC 20v AFY, ADR	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5566XP (360° oil groove in pos. 4) MB5269XP (180° oil groove)	MB5566XPC (360° oil groove in pos. 4)	TW2010AM
24	1.8L DOHC 20v AQE, ARH, AVV (97-04)	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5269XP (180° oil groove)		TW2010AM
25	1.8L DOHC Turbo AEB (95-01)			MB5566XP	MB5566XPC	TW2010AM
26	1.8L DOHC Turbo AJQ, AMK, APP, APY, AQA, ARZ, AUL, BFV (97 06)			MB5661XP (180° oil groove)		TW2010AM
27	1.8L DOHC Turbo AMB, ARX, ARY, AUM, AUQ, AVJ, AWT, BEX, BFB (00->)	CR4597XP (w/o lug)		MB5661XP (180° oil groove)		TW2010AM
28	1.8L 8v AAM, ANN, ANP, ADF	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5661XP (180° oil groove)		TW2010AM
29	1.8L DOHC 20v ARG, APT, ANB, APG, AWC, AGN, APX	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5661XP (180° oil groove)		TW2010AM
30	1.8L 20v BAM	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5661XP (180° oil groove)		TW2010AM
31	1.8L SOHC/OHC 8v ADZ	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5661XP (180° oil groove)		TW2010AM
32	2.0L 10v JL, PS, KP, RT, SK, SL	CR 505XP (1.5mm oil hole)		MB 605XP		TW2009AM
33	2.0L 20v NM	CR 505XP (1.5mm oil hole)		MB 605XP		TW2009AM
34	2.0L 8v AGG, AKR, AWF, AWG	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5269XP (180° oil groove)		TW2010AM

\* Normal street bearings

• XPC pMaxKote, polymer coated • GPC silver based polymer coated • TFC Top Fuel/ Pro Mod, polymer coated • HPT - Fluoropolymer Coated



Engine	Race Rod Bearing		Race Main Bearing		Thrust Washer	Cam Bearing
	Non-Coated	Polymer Coated	Non-Coated	Polymer Coated		
35	2.0L 8v AXA, AUZ, AVA	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5661XP (180° oil groove)		TW2010AM
36	2.0L DOHC 16v 6A, ACE (90-96)	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5566XP	MB5566XPC	TW2010AM
37	2.0L DOHC 16v AWA, AXW, BMB (00-08)	CR4597XP (w/o lug)		MB5661XP (180° oil groove)		TW1004AM
38	2.0L DOHC 16v Turbo AXX, BGB, BUL, BWA, BWE (04->)	CR4597XP (w/o lug)		MB5661XP (180° oil groove)		TW1004AM
39	2.0L DOHC 20v ALT (00-08)	CR4597XP (w/o lug)		MB5661XP (180° oil groove)		TW1004AM
40	2.0L SOHC 8v 3A, AAD, AAE, ABK, ABT, ADW (88-98)	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5566XP	MB5566XPC	TW2010AM
41	2.0L SOHC/OHC, 10v HP, JS	CR 505XP (1.5mm oil hole)		MB 605XP		TW2009AM
42	2.0L SOHC/OHC 8v AQY, AEG, BHY, ASU, APK	CR4104XP (w/ lug) CR4104XPD (w/ lug)	CR4104XPC (w/ lug)	MB5661XP (180° oil groove)		TW1004AM
43	2.0L TFSI EA888 Gen 2		CR4637GPC	MB5778XP		TW1045AM
44	2.0L TFSI EA888 Gen 3		CR4637GPC	MB5779XP		
45	2.2L SOHC/OHC 10v KM, KX, HY, HX, KU, KZ, PX, KV, JT	CR 505XP (1.5mm oil hole)		MB 605XP		TW2009AM
46	2.3L SOHC/OHC 10v NF, NG, PR, AAR	CR 505XP (1.5mm oil hole)		MB 605XP		TW2009AM
47	2.3L DOHC 20v 7A	CR 505XP (1.5mm oil hole)		MB 605XP		TW2009AM
48	2.5L 10v AAF, AEN, AET, AEU, AVT	CR 505XP (1.5mm oil hole)		MB 605XP		TW2009AM
49	2.5L SOHC/OHC 10v ACU, APL	CR 505XP (1.5mm oil hole)		MB 605XP		TW2009AM
50	2.5L TFSI (CEPA/CEPB) TTRS, RS3, RS Q3		CR5000GPC	MB 639XP		
51	2.8L VR6 R30 AAA, AES, AQP, AUE, AYL, BDE		CR6764XPC	MB7089XP		
52	3.2L VR6 R32 AZZ, AXJ, BDL, BFH, BJS, BKK, BKJ, BUB, CFLA		CR6764XPC	MB7089XP		
53	5.2L Audi R8 V10 / Lamborghini Galardo / Huracan V10		CR 227XPC		MB1322XPC (66.972 mm shaft)	TW2027AM
<b>BMW</b>						
54	1.6L DOHC 16v N13B16A	CR4633XP		MB5758XP		TW1046AM
55	1.6L DOHC 16v N12, N14, N16, N18B16 Mini (Prince)	CR4633XP		MB5758XP		TW1046AM
56	1.6L SOHC 8v M40B16, M43B16	CR4042XP		MB5082XP		
57	1.6L SOHC 16v W10B16 Mini Cooper	CR4537XP		MB5667SI*		
58	1.6L SOHC 16v Super Charged W11B16 Mini Cooper	CR4600XP		MB5667SI*		
59	1.8L SOHC/DOHC 8v/16v M40B18, M42B18, M43B18	CR4042XP		MB5082XP		
60	1.9L SOHC/DOHC 8v/16v M43B19, M44B19	CR4042XP		MB5082XP		
61	2.0L DOHC 16v S14B20	CR4596XP		MB 544AM*		
62	2.0L SOHC/DOHC 12v/24v M20B20, M50B20, M52B20	CR6640XP	CR6640XPC	MB7039XP	MB7039XPC	
63	2.0L DOHC 16v N20B20, N26B20		CR 222GPC	MB5784SI*		
64	2.0L DOHC 16v N47D20O1	CR1658SV*				
65	2.2L DOHC 24v M54B22	CR6640XP	CR6640XPC	MB7039XP	MB7039XPC	
66	2.3L DOHC 16v S14B23	CR4596XP		MB 544AM*		
67	2.3L SOHC 12v M20B23	CR6640XP	CR6640XPC	MB7039XP	MB7039XPC	
68	2.4L SOHC/OHC 12v M21D24 Turbo Diesel	CR1689SV*				
69	2.5L DOHC 16v S14B25	CR4596XP		MB 544AM*		
70	2.5L SOHC/DOHC 12v/24v M20B25, M50B25, M52B25, M54B25	CR6640XP	CR6640XPC	MB7039XP	MB7039XPC	
71	2.7L SOHC/DOHC 12v/24v M20B27, M50B27	CR6640XP	CR6640XPC	MB7039XP	MB7039XPC	
72	2.8L DOHC 24v M52B28, M52B28TU DOHC 24v	CR6640XP	CR6640XPC	MB7039XP	MB7039XPC	
73	3.0L DOHC 24v M54B30	CR6640XP	CR6640XPC	MB7039XP	MB7039XPC	
74	3.0L DOHC 24v N57D30TU	CR1658SV*		MB7781SM*		
75	3.0L DOHC 24v S50B30 Euro	CR6854XP		MB7039XP	MB7039XPC	
76	3.0L DOHC 24v N54B30 / N55B30		CR 222GPC		MB7776GPC	
77	3.0L DOHC 24v S58B30A		CR6903GPC			
78	3.0L Toyota Supra GR		CR6887GPC		MB7779XPC	
79	3.2L DOHC 24v S50B32	CR6853XP		MB7039XP	MB7039XPC	
80	3.2L DOHC 24v S54B32	CR6877XP	CR6877XPC	MB7039XP	MB7039XPC	

\* Normal street bearings

• XPC pMaxKote, polymer coated • GPC silver based polymer coated • TFC Top Fuel/ Pro Mod, polymer coated • HPT - Fluoropolymer Coated

Engine	Race Rod Bearing		Race Main Bearing		Thrust Washer	Cam Bearing
	Non-Coated	Polymer Coated	Non-Coated	Polymer Coated		
81	4.0L DOHC 32v S65B40A		CR 224GPC	MB5803XP (65mm)		
82	4.4L V8 DOHC 32v N62B44, N63B44, S63B44		CR8049GPC (-2011) CR8050GPC (2011-)	MB5801SM* (70mm)		
83	4.8L V8 DOHC 32v N62B48		CR8049GPC (-2011) CR8050GPC (2011-)			
84	4.9L DOHC 32v S62B50	CR8063XP		MB5872XP	TW2037AM	
85	5.0L DOHC 40v S85B50A		CR 224GPC	MB 637XP		
<b>CAN-AM</b>						
86	0.9L X3 TURBO OFFROAD		CR3002XPC		MB4201XPC	
<b>CHRYSLER</b>						
87	2.4L 16v G4KC, F4KE "World Engine"	CR4668XP		MB5707SI*		TW1050AM
88	2.4L 146 DOHC 16v EDZ SRT4 (02-05)	CR4256XP		MB5270XP		
89	3.5L 215 OHV 12v	CR6672XP		MB7723XP		
90	4.0L 245 OHV 12v	CR6672XP		MB7723XP		
91	4.3L 265 OHV 12v	CR6672XP		MB7723XP		
92	4.5L 273 OHV 16v V8	CR 805XPN	CR 805XPNC		MB 558XPC (1/2 groove)	CS 512HP
93	5.2L 318 OHV 16v V8	CR 805XPN	CR 805XPNC		MB 558XPC (1/2 groove)	CS 512HP
94	5.6L 340 OHV 16v V8	CR 805XPN	CR 805XPNC		MB 558XPC (1/2 groove)	CS 512HP
95	5.7L 345 OHV 16v V8 Hemi (03->)	CR8032XPN	CR8032XPNC	MB5840XP	MB5840XPC	TW1003AM
96	5.7L 350 OHV 16v V8	CR 806HPND CR 806XPND CR 863HPN (no hole)	CR 806XPND	MB 555HP		
97	5.9L 360 OHV 16v V8	CR 805XPN	CR 805XPNC	MB 517XP	MB 517XPC	CS 512HP
98	5.9L 361 OHV 16v V8	CR 806HPND CR 806XPND CR 863HPN (no hole)	CR 806XPND	MB 555HP		
99	6.1L 370 OHV 16v V8 Hemi (05->)	CR8032XPN	CR8032XPNC	MB5840XP	MB5840XPC	TW1003AM
100	6.3L 383 OHV 16v V8	CR 806HPND CR 806XPND CR 863HPN (no hole)	CR 806XPND	MB 555HP		
101	6.4L 392 OHV 16v V8 Hemi	CR8032XPN	CR8032XPNC	MB5840XP	MB5840XPC	TW1003AM
102	6.6L 400 OHV 16v V8	CR 806HPND CR 806XPND CR 863HPN (no hole)	CR 806XPND	MB 555HP		CS 533HP
103	6.7L 413 OHV 16v V8	CR 806HPND CR 806XPND CR 863HPN (no hole)	CR 806XPND			CS 533HP
104	7.0L 426 OHV 16v V8	CR 806HPND CR 806XPND CR 863HPN (no hole)	CR 806XPND	MB5116HP MB5116XP (multi-bored contoured wall) MB5116SI* (non contoured wall)	MB5116XPC (multi-bored contoured wall)	CS 533HP
105	7.0L 426 OHV 16v V8 Hemi	CR 806HPND CR 806XPND CR 863HPN (no hole)	CR 806TFC (narrow, dowel hole) CR 806TFC32L (narrow, dowel hole) CR 806TFC32U (narrow) CR 806XPND	MB5116HP MB5116XP (multi-bored contoured wall) MB5116SI* (non contoured wall)	MB5116TFC MB5116TFC6LF (6 flange lowers) MB5116TFC6UF (6 flange uppers) MB5116TFC24L (24 lowers) MB5116TFC24U (24 uppers) MB5116XPC (multi-bored contoured wall)	CS 533HP
106	7.2L 440 OHV 16v V8	CR 806HPND CR 806XPND CR 863HPN (no hole)	CR 806TFC (narrow, dowel hole) CR 806TFC32L (narrow, dowel hole) CR 806TFC32U (narrow) CR 806XPND	MB5116HP MB5116XP (multi-bored contoured wall) MB5116SI* (non contoured wall)	MB5116TFC MB5116TFC6LF (6 flange lowers) MB5116TFC6UF (6 flange uppers) MB5116TFC24L (24 lowers) MB5116TFC24U (24 uppers) MB5116XPC (multi-bored contoured wall)	CS 533HP
<b>DODGE/CUMMINS</b>						
107	5.9L B series		CR1035GPC		MB7009GPC (single flange upper) MB7119GPC (double flange)	
108	6.7L B series				MB7009GPC (single flange upper)	
<b>FORD</b>						
109	1.3L OHV 8v 2735E, 711M X Flow, 751M	CR 410XP		MB 512XP		
110	1.5L, 1.6L OHV 8v 116E Lotus, Kent engine	CR 410XP		MB 512XP		
111	1.6L, 1.7L BDA, BDB, BDC, BDD	CR4540XP		MB 512XP		

\* Normal street bearings

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Engine		Race Rod Bearing		Race Main Bearing		Thrust Washer	Cam Bearing
		Non-Coated	Polymer Coated	Non-Coated	Polymer Coated		
112	1.6L 4 Cyl Duratec (Fiesta, Focus)	CR4365XP		MB5009XP			
113	2.0L DOHC 16v YB	CR4440XP		MB5672XP		TW2022CP	
114	2.0L DOHC 16v Duratec	CR4515XP (47mm journal)		MB5442XP			
115	2.0L, 2.3L DOHC 16v EcoBoost	CR4604XP CR4695XP (w/o lug) (52mm journal)	CR4604XPC CR4695XPC (w/o lug) (52mm journal)	MB5442XP			
116	2.3L DOHC 16v Duratec	CR4507XP (50mm journal)		MB5442XP			
117	2.3L 140 Inline 4 SOHC 8v 2300 Stroker			MB 582XP (-1990, for 2.591" housing) MB5278XP (1989-, for 2.397" housing)			
118	2.4L 144 OHV 12v Inline 6 Falcon	CR 618XP					
119	2.5L Turbo HYDA	CR 509XP	CR 509XPC	MB 612XP			
120	2.8L 170 OHV 12v Inline 6 Falcon	CR 618XP					
121	3.1L 188 OHV 12v Inline 6 Falcon	CR 618XP					
122	3.3L 200 OHV 12v Inline 6	CR 618XP		MB7703XP			
123	3.5L ECOBOOST V6	CR6895XP		MB4549XP			
124	4.0L DOHC 24v (Incl. Turbo) Inline 6	CR 618XP		MB7063XP MB7790XP (2 flanged halves)			
125	4.0L SOHC 12v EB-ED, EF-EL	CR 618XP		MB7703XP			
126	4.0L SOHC 12v Intech	CR 618XP		MB7063XP MB7790XP (2 flanged halves)			
127	4.1L 250 OHV 12v Inline 6	CR 618XP		MB7750SI*			
128	4.3L 260 OHV 16v V8	CR 804HPN CR 804XPN CR 804XPND	CR 804XPNC	MB 529HP MB 529XP	MB 529XPC		CS 514HP CS 514HPT
129	4.6L SOHC 16v Cast Iron Block, Romeo Vin W (91-10), X (96-04), V (06-10)	CR 868HPN CR 868XPN	CR 868XPNC	MB5353HP MB5353XP	MB5353XPC	lower flange 1 thrust washer	CS 604BB
130	4.6L SOHC 16v Windsor Vin 6 (96-03), W (93-10), X (96-04)	CR 868HPN CR 868XPN	CR 868XPNC	MB5280HP MB5280XP	MB5280XPC	contains 3 thrust washers	CS 604BB
131	4.6L SOHC 24v Aluminum Block Vin 8 (06-10), H (05-10)	CR 868HPN CR 868XPN	CR 868XPNC	MB5283HP MB5283XP (upper shell offset lug)	MB5283XPC (upper shell offset lug)	lower flange 1 thrust washer	CS 606BB
132	4.6L DOHC 32v Aluminum Block Vin H, R, V, Y (96-05)	CR 868HPN CR 868XPN	CR 868XPNC	MB5283HP MB5283XP (upper shell offset lug)	MB5283XPC (upper shell offset lug)	lower flange 1 thrust washer	CS 605BB (DOHC, -1996) CS 606BB (1996-)
133	4.7L 289 OHV 16v V8	CR 804HPN CR 804XPN CR 804XPND	CR 804XPNC	MB 529HP MB 529XP	MB 529XPC		CS 514HP CS 514HPT
134	5.0L 302 OHV 16v V8 Windsor	CR 804HPN CR 804XPN CR 804XPND	CR 804XPNC	MB 529HP MB 529XP	MB 529XPC		CS 514HP CS 514HPT
135	5.0L 302 DOHC 32v V8 Coyote (11-13)	CR 868HPN CR 868XPN	CR 868XPNC	MB5734XP	MB5734XPC	contains thrust washers	
136	5.0L 307CI Coyote	CR 868HPN CR 868XPN	CR 868XPNC	MB5734XP	MB5734XPC	contains thrust washers	
137	5.2L, 315CI Aluminator/Predator	CR 868HPN CR 868XPN	CR 868XPNC	MB5734XP	MB5734XPC	contains thrust washers	
138	5.4L SOHC 16v Windsor Vin 3 (99-04), L (97-10), Z (98-04)	CR 868HPN CR 868XPN	CR 868XPNC	MB5280HP MB5280XP	MB5280XPC	contains 3 thrust washers	
139	5.4L SOHC 24v Windsor Vin 5 (04-10), V (06-10)	CR 868HPN CR 868XPN	CR 868XPNC	MB5280HP MB5280XP	MB5280XPC	contains 3 thrust washers	
140	5.4L DOHC 32v In Tech Windsor Vin A (99-02), R (01-04)	CR 868HPN CR 868XPN	CR 868XPNC	MB5280HP MB5280XP	MB5280XPC	contains 3 thrust washers	
141	5.8L GT500 Shelby Aluminum block	CR 868HPN CR 868XPN	CR 868XPNC	MB5824XP	MB5824XPC	contains 3 thrust washers	
142	5.8L 351 OHV 16v V8 Cleveland	CR 813XPN		MB5503HP MB5503XP	MB5503XPC		CS 516HP
143	5.7L 351 OHV 16v V8 Windsor	CR 814XPN		MB5505XP (1977-1988)			CS 514HP CS 514HPT
144	6.7L Powerstroke, 32V Diesel		CR8056GPC		MB5836GPC	TW3000AM	
145	7.0L 429	CR 874HP		MB5650HP (multi-bored) MB5650XP (multi-bored)	MB5650TFC MB5650TFC20L (20 lowers) MB5650TFC20U (20 uppers) MB5650XPC		CS 517HP CS 517HPT

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Engine	Race Rod Bearing		Race Main Bearing		Thrust Washer	Cam Bearing
	Non-Coated	Polymer Coated	Non-Coated	Polymer Coated		
146	7.3L GODZILLA V8 OHV 16v		CR8064GPC		MB5881GPC	
147	7.5L 460	CR 874HP		MB5650HP (multi-bored) MB5650XP (multi-bored)	MB5650TFC MB5650TFC20L (20 lowers) MB5650TFC20U (20 uppers) MB5650XPC	CS 517HP CS 517HPT
<b>GENERAL MOTORS</b>						
148	2.0L DOHC 16v LNF, LSJ	CR4363XP	CR4363XPC	MB5413CP*		
149	2.0L, 2.2L, 2.4L 16v DOHC Ecotec	CR4363XP	CR4363XPC	MB5413CP*		
150	2.2L DOHC 16v L42, L61, LAP	CR4363XP	CR4363XPC	MB5413CP*		
151	2.4L DOHC 16v LAF, LAT, LE5, LE9, LEA, LUK	CR4363XP	CR4363XPC	MB5413CP*		
152	2.8L, 3.0L, 3.2L, 3.6L HFV6, LAU, LP1, LP9, LF1, LFX, LLT, LY7, 10HMA	CR6826XP		MB4272XP		
153	3.8L OHV 12v V6	CR6618XP				
154	3.8L 231 OHV 12v V6	CR6664XP		MB5737XP (contains additional lowers to fit different applications)		
155	265, 283, 302, 327 OHV 16v V8 (62-67) 2.000" Small journal	CR 803HPN CR 803XPN CR 803XPND	CR 803GPNC CR 803XPNC	MB 554XP		CS 507HP CS 507HPT (1964-1967)  CS 534HP CS 534HPT (1955-1963)
156	262, 265, 267, 302, 305, 307, 327, 350 OHV 16v V8 Small Block (68-96) 2.100" Large journal	CR 807HPN CR 807HPND CR 807XPN CR 807XPND	CR 807XPNC CR 807XPND	MB 557HP MB 557XP	MB 557GPC MB 557XPC	CS 507HP CS 507HPT
157	348, 409 OHV 16v V8	CR 808HPN CR 808HPND CR 808XPN CR 808XPND	CR 808TFC CR 808TFC32L CR 808TFC32U CR 808XPNC CR 808XPND			
158	LS series 4.8L OHV 16v Vortec 5.3L OHV 16v Vortec 5.7L OHV 16v 6.0L OHV 16v (also Vortec) 6.2L OHV 16v (also Vortec)	CR 807HPN CR 807HPND CR 807XPN CR 807XPND	CR 807XPNC CR 807XPND	MB1328XP (flanged pair) MB5013XP	MB5013XPC	CS5503HP CS5503HPT (1997-2003) CS5510HP CS5510HPT (2003-2010) CS5171HP CS5171HPT (2006-2013 .775" wide)
159	Dart LS Next Block	CR 807HPN CR 807HPND CR 807XPN CR 807XPND	CR 807XPNC CR 807XPND	MB5777XP		CS5172HP CS5172HPT
160	325, 350, 389, 400 Pontiac 3" main			MB5511HP MB5511XP		
161	364 6.0L 16v V8 LZ1 Vortec	CR 807HPN CR 807HPND CR 807XPN CR 807XPND	CR 807XPNC CR 807XPND	MB5013XP	MB5013XPC	
162	366, 396, 402, 454, 502 OHV 16v V8 Big Block	CR 808HPN CR 808HPND CR 808XPN CR 808XPND	CR 808TFC CR 808TFC32L CR 808TFC32U CR 808XPNC CR 808XPND	MB 556HPN MB 556XPN MB1124HP (flanged pair)	MB 556TFC MB 556TFC6LF (6 flange lowers) MB 556TFC6UF (6 flange uppers) MB 556TFC24L (24 lowers) MB 556TFC24U (24 uppers) MB 556XPNC	CS 524HP CS 524HPT
163	6.2L, 16v V8 LT1, LT4, L86 (Gen V)	CR8057XPN CR8057XPNC		MB1328XP (flanged pair) MB5013HP MB5013XP	MB5013XPC	CS5161HPT**
164	400 OHV 16v V8 Small Block	CR 807HPN CR 807HPND CR 807XPN CR 807XPND	CR 807XPNC CR 807XPND	MB 509HP MB 509XP	MB 509GPC MB 509XPC	CS 507HP CS 507HPT
165	403 6.6L Turbo 32v V8 Duramax		CR8037GPC (connecting rods marked B) CR8059GPC (connecting rods marked A)		MB5724GPC MB5848GPC (housing +0.040")	TW 312AM
166	421 6.9L OHV 16v	CR 815CP*		MB5849HP		
167	428 7.0L OHV 16v	CR 815CP*		MB5849HP		
168	455 7.5L OHV 16v	CR 815CP*		MB5849HP		


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Engine		Race Rod Bearing		Race Main Bearing		Thrust Washer	Cam Bearing
		Non-Coated	Polymer Coated	Non-Coated	Polymer Coated		
<b>HOLDEN</b>							
169	138 OHV 12v Red Motor	CR6649XP					
170	149 OHV 12v Red Motor	CR6649XP					
171	161 OHV 12v Red Motor	CR6649XP					
172	179 OHV 12v	CR6649XP					
173	186 OHV 12v Red Motor	CR6649XP					
174	174 OHV 12v Blue Motor	CR6649XP		MB7704XP			
175	202 OHV 12v Red/Blue/Black Motor	CR6649XP		MB7704XP			
176	204 3.3L OHV 12v Holden LG7	CR6664XP		MB5737XP (contains additional lowers to fit different applications)			
177	231 3.8L OHV 12v Holden LN3, L27, L36, L67, L32	CR6664XP		MB5737XP (contains additional lowers to fit different applications)			
178	253 OHV 16v Red/Blue Motor	CR8007XP		MB5381XP			
179	3.0L, 3.2L, 3.6L Alloytec HFV6, LF1, 10HMA, LLT, LY7	CR6826XP		MB4272XP			
180	308 OHV 16v Red/Blue Motor	CR8007XP		MB5381XP			
181	308 5.0L EFI OHV 16v	CR8007XP		MB5381XP			
182	348 OHV 16v Gen III LS1	CR 807HPN CR 807HPND CR 807XPN CR 807XPND	CR 807XPNC CR 807XPND	MB1328XP (flanged pair) MB5013XP	MB5013XPC		
183	6.0L OHV 16v Gen IV L76, L98, LS2	CR 807HPN CR 807HPND CR 807XPN CR 807XPND	CR 807XPNC CR 807XPND	MB1328XP (flanged pair) MB5013XP	MB5013XPC		
<b>HONDA</b>							
184	1.5L SOHC 8v/16v D15B, D15Z	CR4046XP	CR4046XPC	MB5244AM*		TW 110AM	
185	1.6L DOHC 16v B16A	CR 439XP CR 439XPD	CR 439XPC CR 439XPDC	MB5259XP	MB5259XPC	TW 140AM	
186	1.6L SOHC/DOHC 16v D16A, D16B	CR4046XP	CR4046XPC	MB5568XP (full groove)		TW 140AM	
187	1.6L SOHC 16v D16W	CR4046XP	CR4046XPC	MB5568XP (full groove)		TW 140AM	
188	1.6L SOHC/DOHC 16v D16Y, D16Z	CR4046XP	CR4046XPC	MB5568XP (full groove)		TW 140AM	
189	1.6L SOHC/DOHC 8v/16v ZC	CR4046XP	CR4046XPC	MB5568XP (full groove)		TW 140AM	
190	1.7L DOHC 16v B17A1	CR 439XP CR 439XPD	CR 439XPC CR 439XPDC	MB5259XP	MB5259XPC	TW 140AM	
191	1.7L SOHC 16v D17A, D17Z	CR4512SI*		MB5568XP (full groove)		TW 140AM	
192	1.8L SOHC 12v A18A	CR 439XP CR 439XPD	CR 439XPC CR 439XPDC	MB5168XP (50mm journal)		TW 110AM	
193	1.8L DOHC 16v B18A1, B18B1, B18B2	CR 439XP CR 439XPD	CR 439XPC CR 439XPDC	MB5259XP	MB5259XPC	TW 140AM	
194	1.8L DOHC VTEC 16v B18C1, B18C5	CR4287XP CR4287XPD	CR4287XPDC	MB5259XP	MB5259XPC	TW 140AM	
195	1.8L SOHC 12v ES, ET	CR 439XP CR 439XPD	CR 439XPC CR 439XPDC	MB5168XP (50mm journal)		TW 110AM	
196	1.8L F18B, 2.0L F20B SOHC 16v	CR 439XP CR 439XPD	CR 439XPC CR 439XPDC	MB5168XP (50mm journal)		TW 152AM	
197	2.0L SOHC 12v A20A	CR 439XP CR 439XPD	CR 439XPC CR 439XPDC	MB5168XP (50mm journal)		TW 110AM	
198	2.0L SOHC 12v B20A3	CR 439XP CR 439XPD	CR 439XPC CR 439XPDC	MB5568XP (full groove)		TW 140AM	
199	2.0L DOHC 16v B20A5	CR4033XP		MB5568XP (full groove)		TW 140AM	
200	2.0L DOHC 16v B20B3, B20B8	CR4287XP CR4287XPD	CR4287XPDC	MB5259XP	MB5259XPC	TW 140AM	
201	2.0L DOHC 16v B20B4, B20Z2	CR4046XP	CR4046XPC	MB5259XP	MB5259XPC	TW 140AM	
202	2.0L DOHC 16v F20C	CR4033XP		MB5673XP		TW 140AM	
203	2.0L DOHC 16v K20A2, K20Z1	CR4542XP CR4542XPD	CR4542XPC CR4542XPDC	MB5259XP	MB5259XPC	TW 140AM	
204	2.0L DOHC 16v K20A3	CR4541XP		MB5259XP	MB5259XPC	TW 140AM	
205	2.1L DOHC 16v B21A1	CR4033XP		MB5568XP (full groove)		TW 140AM	
206	2.2L DOHC 16v F22C	CR4033XP		MB5673XP		TW 140AM	
207	2.2L DOHC 16v H22A4, H22Z	CR4033XP		MB5568XP (full groove)		TW 140AM	
208	2.2L DOHC 16v H22A1	CR4033XP		MB5168XP (50mm journal)		TW 152AM	
209	2.2L SOHC 16v F22A1, F22A4, F22B1, F22B2, F22B6, F22A6	CR4033XP		MB5168XP (50mm journal)		TW 152AM	
210	2.3L DOHC 16v H23A1	CR4033XP		MB5168XP (50mm journal)		TW 152AM	

\* Normal street bearings

• XPC pMaxKote, polymer coated • GPC silver based polymer coated • TFC Top Fuel/ Pro Mod, polymer coated • HPT - Fluoropolymer Coated



Engine		Race Rod Bearing		Race Main Bearing		Thrust Washer	Cam Bearing
		Non-Coated	Polymer Coated	Non-Coated	Polymer Coated		
211	2.3L SOHC 16v F23A, F23Z	CR4541XP		MB5568XP (full groove)		TW 140AM	
212	2.4L DOHC 16v K24A, K24Z1	CR4542XP CR4542XPD	CR4542XPC CR4542XPDC	MB5259XP	MB5259XPC	TW 140AM	
213	3.2L SOHC 24v J32	CR6837XP		MB4508XP			
214	3.5L SOHC 24v J35	CR6837XP		MB4508XP			
<b>HYUNDAI</b>							
215	2.0L 16v G4KF	CR4634XP CR4668XP (w/o lug)		MB5771XP			
215	2.4L 16v G4KC, F4KE "World Engine"	CR4668XP		MB5707S1*		TW1050AM	
<b>IHC TRACTOR</b>							
217	IHC Tractor 5.9L DT361	CR1629XP		MB7747XP			
218	IHC Tractor 6.7L DT407	CR1629XP		MB7747XP			
<b>JAGUAR</b>							
219	2.8L XJ6	CR 697XP		MB 788XP			
220	3.4L XK6	CR 697XP		MB 788XP			
221	3.8L MK, XK	CR 697XP		MB 788XP			
222	4.2L XJ	CR 697XP		MB 771XP			
<b>KAWASAKI</b>							
222	1.4L ZX-14 	CR1710XP (graded)		MB1336XP (graded, location #1,3,5) MB1337XP (graded, location #2,4)			
223	1.4L ZX-14R (ZXR 1400) 	CR1710XP (graded)		MB1334XP (graded, location #1,3,5) MB1335XP (graded, location #2,4)			
<b>LADA</b>							
224	12L 1.5L 1973-	CR4007XP		MB5546XP			
<b>LANCIA</b>							
225	2.0L 8v/16v Delta HF Integrale	CR4601XP		MB5730XP			
<b>MAZDA</b>							
227	1.5L DOHC 16v ZL-VE	CR4002XP		MB5304XP		TW 133AM	
228	1.5L DOHC 16v Z5-DE			MB5304XP		TW 133AM	
229	1.6L SOHC 8v B6, B6F	CR4002XP		MB5304XP		TW 133AM	
230	1.6L DOHC 16v B6D	CR4002XP		MB5304XP		TW 133AM	
231	1.6L DOHC 16v Turbo B6-T	CR4002XP		MB5304XP		TW 133AM	
232	1.6L SOHC 16v B6-2E/ME	CR4002XP		MB5304XP		TW 133AM	
233	1.6L DOHC 16v ZM-DE	CR4002XP		MB5304XP		TW 133AM	
234	1.6L DOHC ZMD	CR4002XP		MB5304XP		TW 133AM	
235	1.8L SOHC 16v BP	CR4002XP		MB5304XP		TW 133AM	
236	1.8L DOHC 16v BP-T, BP-Z3, BPD	CR4002XP		MB5304XP		TW 133AM	
237	1.8L DOHC 16v Turbo BP-4W, BP-Z3T, BP-ZE	CR4002XP		MB5304XP		TW 133AM	
238	2.0L DOHC 16v LF MZR	CR4515XP (47mm journal)		MB5442XP			
239	2.3L DOHC 16v L3-VDT MZR DISI Turbo Duratec	CR4604XP CR4695XP (w/o lug) (52mm journal)	CR4604XPC CR4695XPC (w/o lug) (52mm journal)	MB5442XP			
240	2.3L DOHC 16v Duratec, MZR L3V, MZR L3X, Duratec Hybrid	CR4507XP (50mm journal)		MB5442XP			
<b>MITSUBISHI</b>							
241	1.5L DOHC 16v 4G91	CR4119XP		MB5176XP		TW 143AM	
242	1.6L SOHC 8v 4G32/G32B	CR4481XP	CR4481XPC	MB5227XP			
243	1.6L DOHC 16v (Incl. Turbo) 4G61, 4G61-T	CR4481XP	CR4481XPC	MB5227XP			
244	1.6L SOHC/DOHC 16v 4G92	CR4119XP		MB5176XP		TW 143AM	
245	1.7L SOHC 8v 4G35	CR4481XP	CR4481XPC	MB5227XP			
246	1.8L SOHC 8v 4G37	CR4481XP	CR4481XPC	MB5227XP			
247	1.8L SOHC/DOHC (Incl. Turbo) 4G93, 4G93-T	CR4119XP		MB5176XP		TW 143AM	
248	1.8L SOHC 8v (Incl. Turbo) 4G62/ G62B, G62BT	CR4481XP	CR4481XPC	MB5227XP			
249	1.8L SOHC 8v Diesel 4D65	CR4481XP	CR4481XPC	MB5227XP			
250	1.8L SOHC 8v Turbo Diesel 4D65-T	CR4481XP	CR4481XPC	MB5227XP			
251	2.0L SOHC 8v Diesel 4D68	CR4120XP	CR4120XPC	MB5315XP	MB5315XPC		
252	2.0L 4G63 (->92)	CR4481XP	CR4481XPC	MB5227XP			
253	2.0L 4G63 EVO I-IV (92->)	CR4120XP	CR4120XPC	MB5209XP (w/ flange) MB5315XP	MB5315XPC	TW 173AM	

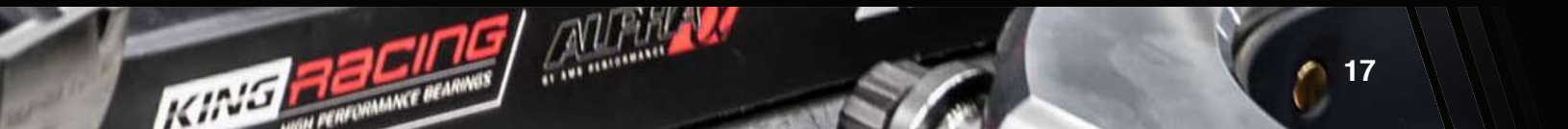
\* Normal street bearings  
• XPC pMaxKote, polymer coated • GPC silver based polymer coated • TFC Top Fuel/ Pro Mod, polymer coated • HPT - Fluoropolymer Coated



Engine		Race Rod Bearing		Race Main Bearing		Thrust Washer	Cam Bearing
		Non-Coated	Polymer Coated	Non-Coated	Polymer Coated		
254	2.0L DOHC 16v Turbo 4B11T Evo X (07->)	CR4586XP	CR4586XPC	MB5722XP	MB5722XPC	TW1050AM	
255	2.0L 4G94	CR4607XP		MB5176XP		TW 143AM	
256	2.4L 4G64 EVO I-IV (92->)	CR4120XP	CR4120XPC	MB5209XP (w/ flange)			
257	2.4L 4G64 EVO V-IX (97-07)	CR4120XP	CR4120XPC	MB5315XP	MB5315XPC	TW 173AM	
258	2.4L 4G64 (->92)	CR4481XP	CR4481XPC	MB5227XP			
259	2.4L DOHC 16v 4G69	CR4120XP	CR4120XPC	MB5315XP	MB5315XPC	TW 173AM	
260	2.5L SOHC 24v 6G73	CR6629XP		MB 458XP			
261	3.0L SOHC 12v, 24v 6G72, 6G72T	CR6629XP		MB 458XP			
<b>NISSAN</b>							
262	1.6L DOHC 16v CA16DE	CR 407XP		MB5232XP			
263	1.6L DOHC 16v CA16DET, CA20ET	CR 407XP		MB5232XP			
264	1.7L SOHC 8v Diesel CD17	CR 407XP		MB5232XP			
265	1.8L DOHC 16V (Incl. Turbo) CA18DE, CA18DET	CR 407XP		MB5232XP			
266	2.0L SOHC 8v CA20E, CA20S	CR 407XP		MB5232XP			
267	2.0L SOHC 8v Diesel (Incl. Turbo) CD20, CD20-T			MB5232XP			
268	2.0L DOHC 24v (Incl. Turbo) RB20DE, RB20DET	CR6752XP		MB7008XP	MB7008XPC		
269	2.0L DOHC 16v (Incl. Turbo) SR20DE, SR20DET	CR4136XP (17 mm rod width)	CR4136XPC (17 mm rod width)	MB5243XP	MB5243XPC		
270	2.0L SR20DET (GTiR), 16v	CR4587XP		MB5721XP		TW 139AM	
271	2.0L DOHC 24v VQ20DE	CR6752XP		MB4058XP		TW 271AM	
272	2.4L SOHC 12V KA24DE	CR4065XP		MB5595XP			
273	2.5L DOHC 24v (Incl. Turbo) RB25DET, RB25DETT	CR6697XP	CR6697XPC	MB7008XP	MB7008XPC		
274	2.5L DOHC 24v VQ25DE, VQ25DET	CR6752XP		MB4058XP		TW 271AM	
275	2.6L DOHC 24v Turbo RB26DETT	CR6697XP	CR6697XPC	MB7092XP	MB7092XPC		
276	3.0L SOHC 12v (Incl. Turbo) RB30E, RB30ET	CR6676XP		MB7008XP	MB7008XPC		
277	3.0L DOHC 24v VQ30DE, VQ30DET	CR6752XP		MB4058XP		TW 271AM	
278	3.0L SOHC 12v VG30i	CR6676XP		MB4104XP			
279	3.0L DOHC 24v Twin Turbo VG30DETT	CR6676XP		MB4104XP			
280	3.3L SOHC 12v VG33E	CR6676XP		MB4104XP			
281	3.5L DOHC 24v VQ35DE	CR6775XP		MB4058XP		TW 271AM	
282	3.5L VQ35HR		CR6902XPC		MB4524XPC	TW1042AM	
283	3.7L VQ37VHR		CR6902XPC		MB4524XPC	TW1042AM	
284	3.8L DOHC 24v Twin Turbo VR38DETT		CR6870XPNC CR6870XPND		MB4524XPC	TW1042AM	
285	4.5L VK45DD, VK45DE	CR8051XP		MB5770XP			
286	4.8L TB48DE	CR6715XP		MB7782XP			
287	5.6L VK56DE, VK56VD	CR8051XP		MB5770XP			
<b>OPEL</b>							
288	1.6L SOHC 8v 16N, 16SH	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
289	1.6L SOHC 8v Diesel 16D, 16DA	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
290	1.7L SOHC 8v Diesel 17D, 17DR	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
291	1.8L 18SV	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
292	1.8L SOHC 8v 18E, 18N, 18NV, 18S, 18SE, 18SEH	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
293	1.8L SOHC 8v C18NE, C18NV, C18NT, C18NZ	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
294	1.8L DOHC 16v C18XE, C18XEL	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
295	1.8L SOHC 8v E18NV, E18NVR	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
296	1.8L SOHC 8v S18NV	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
297	1.8L DOHC 16v X18XE	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
298	2.0L SOHC 16v C20SED	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
299	2.0L SOHC 8v 20SE, 20SEH, 20SER, C20NE, C20LE, LT2, LT3	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
300	2.0L DOHC 16v 20XE	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
301	2.0L DOHC 16v Turbo C20LET	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
302	2.0L DOHC 16v C20XE	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
303	2.0L DOHC 16v X20SE, X20XE, X20SED	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
304	2.2L DOHC 16v C22SEL	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		
305	2.2L DOHC 16v X22SE, X22XE	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC		

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Engine	Race Rod Bearing		Race Main Bearing		Thrust Washer	Cam Bearing
	Non-Coated	Polymer Coated	Non-Coated	Polymer Coated		
306	2.2L DOHC 16v Y22SE	CR4017XP	CR4017XPC	MB5179XP	MB5179XPC	
307	2.2L DOHC 16v Z22SE (Ecotec)	CR4363XP	CR4363XPC	MB5413CP*		
308	2.8L, 3.2L V6 28NEL, Z28NET, Z32SE	CR6826XP		MB4272XP		
<b>PEUGEOT</b>						
309	1.3L SOHC 8v TU2.4, TU2J2	CR4493XP		MB5569AM*		TW 132AM
310	1.4L SOHC 8v TU3A, TU3CP, TU3M, TU3S	CR4493XP		MB5569AM*		TW 132AM
311	1.4L SOHC 8v TU3.2, TU3J2/Z, TU3JP (88->)	CR4493XP		MB5729XP		
312	1.4L SOHC 8v XY6B, XY7, XY8	CR4493XP		MB5508AM*		TW 132AM
313	1.5L SOHC 8v Diesel TUD5			MB5729XP		
314	1.6L DOHC 16v EP6, EP6DT	CR4633XP		MB5758XP		
315	1.6L SOHC/DOHC 8v/16v TU5J2, TU5J4, TU5JP, TU5JP4	CR4493XP		MB5729XP		
316	1.7L DOHC 16v EW7J4	CR4603XP		MB5760SI*		
317	1.8L SOHC 8v XU7JB, XU7JP	CR4603XP				
318	1.8L DOHC 16v XU7JP4	CR4603XP				
319	1.9L SOHC 8v XU92C, XU9S	CR4602XP		MB5182AM*		TW 246AM
320	2.0L DOHC 16v EW10A, EW10D, EW10J4, EW10J4S	CR4603XP		MB5760SI*		
321	2.0L DOHC 16v XU10J4, XU10J4RS, XU10J4TE	CR4602XP		MB5129AM*		
322	2.0L SOHC 8v XU102C, XU10J2, XU10J2TE, XU10M	CR4602XP		MB5129AM*		
323	2.2L DOHC 16v EW12J4	CR4603XP				
<b>POLARIS</b>						
324	1.0L RZR		CR1715XPC		MB1340XPC (w/ hole) MB1341XPC (w/o hole)	
<b>PORSCHE</b>						
325	2.0L OHC (inc. Turbo) 911, 914	CR6855XP				
326	2.2L OHC 911	CR6855XP				
<b>RENAULT</b>						
327	1.2L SOHC 8v 129-5/XZ7R R14	CR4493XP		MB5508AM*		TW 132AM
328	1.4L SOHC 8v 150-X5J R14	CR4493XP		MB5508AM*		TW 132AM
329	1.6L SOHC 8v Diesel F8M	CR4019XP		MB5180XP		TW 162AM
330	1.7L SOHC 8v F1N, F2N, F2R, F3N	CR4019XP		MB5180XP		TW 162AM
331	1.8L DOHC 16v F7P	CR4019XP		MB5180XP		TW 162AM
332	1.8L SOHC 8v F3P	CR4019XP		MB5180XP		TW 162AM
333	1.9L SOHC 8v Diesel, Turbo Diesel F8Q	CR4019XP		MB5180XP		TW 162AM
334	2.0L SOHC 8v F3R	CR4019XP		MB5180XP		TW 162AM
335	2.0L DOHC 16v F7R	CR4019XP		MB5180XP		TW 162AM
<b>SAAB</b>						
336	2.0L B204, B205	CR4606XP				
337	2.3L B234, B235	CR4606XP				
338	2.8L Turbo V6 LP9	CR6826XP		MB4272XP		
<b>SUBARU</b>						
339	2.0L DOHC 16v (Incl. Turbo) EJ20 WRX/STI	CR4125XPG (52mm journal)	CR4125XPGC (52mm journal)	MB5382XPG (flange in pos. 5) MB5739XPG (housing +.002") MB5740XPG (housing +.005")	MB5382XPGC (flange in pos. 5)	
		CR4280XP (48mm journal)		MB5220XP (flange in pos. 3)		
340	2.0L 16v FA20	CR4616XPG	CR4616XPGC	MB5745XPG MB5799XPG (housing +.005")	MB5745XPGC	
341	2.0L 16v FB20	CR4622XP CR4689XP (housing +.003")		MB5745XPG MB5799XPG (housing +.005")	MB5745XPGC	
342	2.2L SOHC 16v/DOHC 16v (Incl. Turbo) EJ22 WRX/STI	CR4125XPG (52mm journal)	CR4125XPGC (52mm journal)	MB5382XPG (flange in pos. 5) MB5739XPG (housing +.002") MB5740XPG (housing +.005")	MB5382XPGC (flange in pos. 5)	
		CR4280XP (48mm journal)		MB5220XP (flange in pos. 3)		

\* Normal street bearings

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Engine	Race Rod Bearing		Race Main Bearing		Thrust Washer	Cam Bearing
	Non-Coated	Polymer Coated	Non-Coated	Polymer Coated		
343	2.5L 16v FB25	CR4622XP CR4689XP (housing +.003")		MB5745XPG MB5799XPG (housing +.005")	MB5745XPGC	
344	2.5L SOHC 16v/DOHC 16v (Incl. Turbo) EJ25 WRX/STI	CR4125XPG (52mm journal)	CR4125XPGC (52mm journal)	MB5382XPG (flange in pos. 5) MB5739XPG (housing +.002") MB5740XPG (housing +.005")	MB5382XPGC (flange in pos. 5)	
		CR4280XP (48mm journal)		MB5220XP (flange in pos. 3)		
345	3.0L DOHC 24v EZ30, EZ30D	CR6874XP		MB7772XP		
<b>SUZUKI</b>						
346	1.0L GSX-R1000 	CR1712XP (graded)		MB1333XP (graded)		TW1062AM
347	1.3L Hayabusa GSX1300R 	CR1711XP (graded)		MB1332XP (graded)		TW1060AM
348	1.3L SOHC 8v G13A	CR4605XP		MB5731XP		TW 134AM
349	1.3L DOHC 16v G13B	CR4605XP		MB5731XP		TW 134AM
350	1.3L SOHC 16v G13BB	CR4605XP		MB5731XP		TW 134AM
351	1.3L SOHC 8v G13BA	CR4605XP		MB5731XP		TW 134AM
352	1.5L DOHC 16v M15A	CR4594XP		MB5727XP		
353	1.6L DOHC 16v M16A	CR4594XP		MB5727XP		
354	1.8L DOHC 16v M18A	CR4594XP		MB5727XP		
<b>TOYOTA</b>						
355	1.3L SOHC 8 v 2A, 2A-LC			MB5527XP		TW 231AM
356	1.5L SOHC 8 v 3A, 3A-C, 3A-U			MB5527XP		TW 231AM
357	1.5L DOHC 16v 5A-F, 5A-FE			MB5527XP		TW 231AM
358	1.6L SOHC 8v 4A-C, 4A-LC			MB5527XP		TW 231AM
359	1.6L DOHC 16v 4A-F, 4A-FE			MB5527XP		TW 231AM
360	1.6L DOHC 16v/20v 4A-GE	CR4032XP		MB5527XP		TW 231AM
361	1.6L DOHC 16v 4A-GEC, 4A-GELC	CR4032XP		MB5527XP		TW 231AM
362	1.6L DOHC 16v Supercharged 4A-GZE	CR4032XP		MB5527XP		TW 231AM
363	1.8L SOHC 8v 1S			MB5554XP	MB5554XPC	TW 226AM
364	1.8L DOHC 16v 4S-FE			MB5554XP	MB5554XPC	TW 226AM
365	1.8L DOHC 16v 7A-FE			MB5527XP		TW 231AM
366	1.8L DOHC 16v 2ZZ-GE	CR4608XP		MB5375XP		TW 185AM
367	2.0L 1RZ	CR4219XP		MB5089XP		TW 285AM
368	2.0L 4U-GSE	CR4616XPG	CR4616XPGC	MB5745XPG	MB5745XPGC	
369	2.0L SOHC 8v 2S, 2S-E			MB5554XP	MB5554XPC	TW 226AM
370	2.0L DOHC 16v 3S-FC, 3S-FE			MB5554XP	MB5554XPC	TW 226AM
371	2.0L DOHC 16v (Incl. Turbo) 3S-GE, 3S-GTE	CR4209XP	CR4209XPC	MB5554XP	MB5554XPC	TW 226AM
372	2.2L DOHC 16v 5S-FE			MB5554XP	MB5554XPC	TW 226AM
373	2.4L 2RZ-FE, 2TZ-FE	CR4219XP		MB5089XP		TW 285AM
374	2.5L DOHC 24v (Incl. Twin Turbo) 1JZ-GE, 1JZ-GTE	CR6754XP	CR6754XPC CR6754XPDC	MB7084XP	MB7084XPC	TW 284AM
375	2.7L 3RZ-FE	CR4219XP		MB5089XP		TW 285AM
376	3.0L DOHC 24v (Incl. Twin Turbo) 2JZ-GE, 2JZ-GTE	CR6754XP	CR6754XPC CR6754XPDC	MB7084XP	MB7084XPC	TW 284AM
377	3.0L Toyota Supra GR		CR6887GPC	MB7779XPC		
378	4.0L DOHC 32v 1UZ-FE	CR 888XP		MB5286XP		TW 288AM
379	4.3L DOHC 32v 3UZ-FE	CR 888XP		MB5286XP		TW 288AM
380	4.5L DOHC 24v 1FZ-FE	CR6727XP		MB7049XP		TW 287AM
381	4.7L DOHC 32v 2UZ-FE	CR 888XP		MB5286XP		TW 288AM
<b>VOLKSWAGEN</b>						
See under AUDI/VOLKSWAGEN						
<b>VOLVO</b>						
382	2.0L SOHC 8v (Incl. Turbo) B200	CR4599XP				
383	2.0L DOHC 16v (Incl. Turbo) B204	CR4599XP				
384	2.0L DOHC 10v B5202	CR 509XP	CR 509XPC	MB 612XP		
385	2.3L SOHC 8v (Incl. Turbo) B230	CR4599XP				
386	2.3L DOHC 16v B234	CR4599XP				

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# Interchange List :

ACL	KING	LINE
11-1442H	CR 868XPN	129, 130, 131, 132, 135, 136, 137, 138, 139, 140, 141
11-527HD	CR 806XPND	96, 98, 100, 102, 103, 104, 105, 106
11-634H	CR 804XPN	128, 133, 134
11-663H	CR 807XPN	156, 158, 159, 161, 164, 182, 183
1B1442H	CR 868HPN	129, 130, 131, 132, 135, 136, 137, 138, 139, 140, 141
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# How to Identify a King Bearing Set

## 1 Bearing types:

- **MB** - Main Bearing Set
- **CR** - Con Rod Bearing Set
- **CS** - Camshaft Bearing Set
- **TW** - Thrust Washer Set
- **PB** - Pin bushing set

## 2 Number of pairs in a set

## 3 Random code

## 4 Material construction:

### Main & Rod Bearing Suffixes

- **HP** - Bi-metal aluminum silicon alloy
- **XP** - Tri-metal copper lead
- **XPC** - Tri-metal copper lead, polymer coated
- **TFC** - Tri-metal strengthened steel, special coper lead, polymer coated
- **GPC** - Tri-metal silver overlay, polymer coated

### Thrust Washer Suffix

- **AM** - Aluminum tin based material

### Cam Bearing Suffixes

- **BB** - Lead based Babbitt material
- **HP** - Micro Babbitt, chill cast & burnished construction
- **HPT** - HP construction with fluoropolymer coating

## 5 Bearing Features:

- **N** - Narrowed
- **D** - Dowel

## 6 Dimension/Undersize e.g. "STD" for standard, X equals .001" extra clearance

### Dimension/Sizes:

Bearing Size - Inches	STD <sup>1</sup> X	STD	.001 <sup>2</sup> "	010 <sup>3</sup> X	.010 <sup>4</sup> "	.011 <sup>5</sup> "	020 <sup>6</sup> X	.020 <sup>7</sup> "	.021 <sup>8</sup> "	.030 <sup>9</sup> "
Bearing Size - Metric	STD <sup>1</sup> X	STD	.026		0.25			0.5		0.75
Crankshaft Undersize	0	0	0	-.010 <sup>3</sup> "	-.010 <sup>4</sup> "	-.010 <sup>5</sup> "	-.020 <sup>6</sup> "	-.020 <sup>7</sup> "	-.020 <sup>8</sup> "	-.030 <sup>9</sup> "
Additional Shell Thickness (on nominal)	-.0005 <sup>1</sup> "	0	+.0005 <sup>3</sup> "	+.0045 <sup>4</sup> "	+.005 <sup>5</sup> "	+.0055 <sup>6</sup> "	+.0095 <sup>7</sup> "	+.010 <sup>8</sup> "	+.0105 <sup>9</sup> "	+.015 <sup>9</sup> "

## 7 Item barcode

## 8 i-King code for online verification and warranty activation





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